



Compressors

Tecumseh

L'Unite Hermetique

Hermetic Reciprocating



The new AE2 compressor series is designed to replace existing AEZ, AE and CAE models. This new series offers a wider capacity range from a single platform and new valve plate designs provide coefficient of performance improvements. The internal mounting springs have been redesigned to minimize sound levels.

Features

- Improved COP
- Reduced energy consumption
- Reduced sound levels

R134a - Medium High SST

Cat. No.	Model No.	Nominal HP	Displ. cm ³ / rev	Motor Type	MOC: Amps	Cooling	Capacity: Watts							Oil Charge cm ³	Connections	
							Evaporating Temperature: °C								Suct.	Disch.
							-15	-10	-5	0	5	10	15			
2708777	AE4425YFZ1A	1 ¹ / ₅	6.69	CSIR	2.4	F	193	265	348	443	552	676	819	280	1 ¹ / ₄ "	3 ¹ / ₁₆ "
9507020	AE4430YFZ1A	1 ¹ / ₄	8.02	CSIR	3.1	F	270	352	450	566	702	861	1045	280	1 ¹ / ₄ "	3 ¹ / ₁₆ "
9507022	AE4440YFZ1A	1 ¹ / ₃	10.33	CSIR	3.7	F	369	471	591	733	899	1093	1317	280	5 ¹ / ₁₆ "	1 ¹ / ₄ "
9507021	AE4450YFZ1C	3 ³ / ₈	13.24	CSIR	4.6	F	482	619	779	964	1180	1429	1716	280	3 ³ / ₈ "	1 ¹ / ₄ "
9507023	AE4456YFZ1C	1 ¹ / ₂	14.51	CSIR	8	F	534	682	854	1052	1282	1547	1853	280	3 ³ / ₈ "	1 ¹ / ₄ "
2708780	AE4460YFZ3C	1 ¹ / ₂	15.09	CSR	4.7	F	548	707	889	1098	1338	1614	1931	280	3 ³ / ₈ "	1 ¹ / ₄ "

R404A - Medium High SST

Cat. No.	Model No.	Nominal HP	Displ. cm ³ /rev	Motor Type	MOC: Amps	Cooling	Capacity: Watts							Oil Charge cm ³	Connections	
							Evaporating Temperature: °C								Suct.	Disch.
							-15	-10	-5	0	5	10	15			
2708765	AE4425Z-FZ1A	1 ¹ / ₅	4.24	CSIR	2.8	F	228	290	362	446	545	659	792	280	1 ¹ / ₄ "	3 ¹ / ₁₆ "
9507031	AE4430Z-FZ1A	1 ¹ / ₄	5.16	CSIR	2.9	F	285	361	447	547	661	793	945	280	1 ¹ / ₄ "	3 ¹ / ₁₆ "
9507032	AE4440Z-FZ1A	1 ¹ / ₃	6.69	CSIR	3.7	F	383	486	603	737	892	1071	1275	280	3 ¹ / ₈ "	1 ¹ / ₄ "
9507000	AE4450Z-FZ1A	3 ³ / ₈	8.85	CSIR	5.1	F	510	642	791	959	1151	1369	1617	280	3 ¹ / ₈ "	1 ¹ / ₄ "
9507001	AE4460Z-FZ1C	1 ¹ / ₂	10.33	CSIR	5.9	F	636	784	952	1144	1363	1614	1900	280	3 ¹ / ₈ "	1 ¹ / ₄ "
9507002	AE4470Z-FZ3C	1 ¹ / ₂	12.01	CSR	5.3	F	759	934	1129	1349	1598	1881	2203	280	3 ¹ / ₈ "	1 ¹ / ₄ "

R404A - Low Temperature

Cat. No.	Model No.	Nominal HP	Displ. cm ³ / rev	Motor Type	MOC: Amps	Cooling	Capacity: Watts						Oil Charge cm ³	Connections	
							Evaporating Temperature: °C							Suct.	Disch.
							-35	-30	-25	-20	-15	-10			
	AE2415Z-FZ1B	3/8	7.33	CSIR	3	F	151	207	272	348	437	539	280	1/4"	3/16"
2708762	AE2420Z-FZ1B	1/2	9.35	CSIR	4.4	F	188	260	345	445	563	699	380	3/8"	1/4"
2708763	AE2425Z-FZ3C	5/8	12.01	CSR	4.2	F	255	351	461	588	734	902	380	3/8"	1/4"

Capacity Rating Basis EN12900 ASERCOM: 32°C Ambient, 20°C Return Gas, 50°C Condensing, 50°C Liquid entering Expansion Valve.

*MOC: Maximum Operating Current.

Motor Types:

- CSIR: Capacitor start, Induction run
- CSR: Capacitor start and run

} 1 Phase, 50 Hz, 220-240 Volt

Cooling:

F: Fan Cooled

Compressors



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R134a – Hermetic – For Low Temperature Applications

Features

- Anti-Vibration mounts supplied
- Charged with polyolester oil and dry nitrogen



Cat. No.	Model No.	Nom. HP	Displ. cm ³ / rev	Motor Type	MOC: Amps	Cooling	R134a Capacity: Watts						Oil Charge cm ³	Connections	
							Evaporating Temperature: °C							Suct.	Disch.
							-35	-30	-23.3	-20	-15	-10			
2708747	AEZ 1370Y	1⁄5	8.1	PTCSIR	2.1	N	82	115	177	215	282	361	450"	1⁄4" Tube	3⁄16"T.
2708383	AEZ1380Y	1⁄4	9.4		2.7		94	144	223	267	338	417			
2708752	AEZ 1380YRH	1⁄4	9.4		2.7	O.C.	94	144	223	267	338	417			
2708753	AE 1410Y RH	1⁄3	12.05	RSIR	2.8		F	92	151	259	324	436		566	5⁄16" Tube
2708782	CAE 2410Y			CSIR	3.0										
2708783	AE 1412Y RH	3⁄8	14.15	RSIR	2.8	O.C.	96	174	306	383	514	663			
2708784	CAE 2412Y			CSIR	2.9									F	

Capacity Rating Basis: 32°C Ambient Temperature, 32°C Evaporator Outlet, 54.5°C Condensing, 32°C Liquid entering expansion valve.

*MOC: Maximum Operating Current

R134a – Hermetic – For Medium / High Temperature Applications

Features

- CAJ/TAJ models redesigned with new electrical connection
- Crankcase heater on FH/TFH and TAG models
- All models suit capillary tube or expansion valve operation
- Rotalock suction and discharge valves on FH/TFH and TAG models
- Anti-vibration mounts supplied
- Charged with polyolester oil and dry nitrogen
- Oil sight glass on FH/TFH and TAG models
- Rotalock suction valve on CAJ/TAJ models



Cat. No.	Model No.	Nom. HP	Displ. cm ³ /rev	Motor Type	MOC: Amps	Cooling	R134a Capacity: Watts						Oil Charge cm ³	Connections		
							Evaporating Temperature: °C							Suct.	Disch.	
							-15	-10	-5	0	7.2	15				
3500021	CAJ 4476Y-FZ	5⁄8	21.8	CSIR	6.9	F	482	702	967	1284	1852	2648	475	1⁄2"V.	1⁄4"T.	
3500022	CAJ 4492Y-FZ	3⁄4	25.95		8.9		620	889	1228	1617	2311	3285			5⁄16"T.	
3500023	CAJ 4511Y-FZ	1	32.7	CSR	8.6		896	2141	1646	2124	2970	4142		1480	5⁄8"V.	5⁄16"T.
3500024	TAJ 4511Y-TZ			3Ø	3.9											
9507028	FH 4518Y	1 1⁄2	53.2	CSR	11.2		1036	1650	2371	3200	4583	6333	1960		7⁄8"V.	5⁄8"V.
2708794	TFH 4518Y			3Ø	4.15											
9507029	FH 4525Y	2	74.25	CSR	15.2		1667	2343	3201	4239	6053	8442				
9507030	TFH 4525Y			3Ø	5.6											
2708795	TAG 4528Y	2 1⁄2	90.2		9.4		1368	2166	3208	4492	6766	9799				
2708796	TAG 4534Y	2 3⁄4	100.7		10.4		1946	2871	4061	5514	8071	11460				
2708797	TAG 4537Y	3	112.5		10.0		2281	3308	4634	6258	9123	12926				
2708798	TAG 4543Y	3 1⁄2	124.4	10.0	2400		3442	4848	6620	9812	14124					

Capacity Rating Basis: 35°C Ambient, 11K Return Gas Superheat, 54.5°C Condensing, 46°C Liquid entering Expansion Valve.

*MOC: Maximum Operating Current.

Cooling: N: Natural Air Flow

O.C.: Oil Cooler Fitted (3/16" tube connections)

F: Fan cooling required

Motor Types:

- 1 Phase, 50 Hz, 220-240 Volt
 - PTCSIR: Positive Temperature Coefficient Resistance Start Induction Run
 - RSIR: Resistance Start, Induction Run
 - CSIR: Capacitor Start, Induction Run
 - CSR: Capacitor start and run
- 3Ø: 3 Phase, 50 Hz, 400 Volt

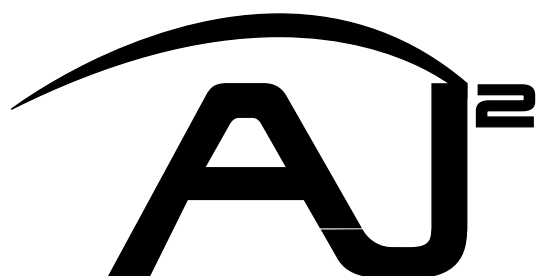
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Patented Te-Connect

Saves time Reduces wiring errors



Reduced sound emissions

Reduced height

Flammable refrigerant models



Built for Today. Ready for Tomorrow.



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R404A – Hermetic – For Low Temperature Applications



Features

- Rotalock suction valve on CAJ/TAJ models
- Charged with polyolester oil and dry nitrogen
- Oil sight glass on FH/TFH and TAG models
- Crankcase heater on FH/TFH and TAG models
- Equalisation Ports on TAGP model for parallel applications
- Fan cooling required on all models
- Rotalock suction and discharge valves on FH/TFH and TAG models
- Anti-Vibration mounts supplied
- All CAJ/TAJ models have been redesigned with new TE Connect electrical connection

Cat. No.	Model No.	Nom. HP	Displ. cm ³ /rev	Motor Type	MOC: Amps	R404A Capacity: Watts						Oil Charge cm ³	Connections	
						Evaporating Temperature: °C							Suct.	Disch.
						-35	-30	-23.3	-20	-15	-10			
2708830	CAE 2417Z	1/3	11.3	CSR	3.4	161	280	460	557	716	891	450	3/8"T.	1/4"T.
2708831	CAE 2420Z	1/2	12.54	CSIR	4.4	232	357	547	654	836	1047			
2708871	CAE 2424Z	5/8	15	CSR	4.7	291	442	664	783	981	1199			
3500016	CAJ 2428Z-FZ	1/2	15.2	CSIR	5.1		375	603	738	977	1261	475	1/2"V	1/4"T.
3500017	CAJ 2432Z-FZ	5/8	18.3	CSR	5.9		477	762	931	1229	1582		1/2"V.	5/16"T.
3500018	CAJ 2446Z-FZ	3/4	26.15		8.2		797	1203	1436	1838	2306		5/8"V.	3/8"T.
3500019	CAJ 2464Z-FZ	1 1/2	34.5	CSR	10	1068	1580	1879	2399	3010				
3500020	TAJ 2464Z-TZ			3Ø	4.0									
9507004	FH 2480Z	2	53.2	CSR	16	738	1319	2183	2662	3476	4419			
9507053	TFH 2480Z			3Ø	4.8									
9507054	FH 2511Z	2 1/2	74.25	CSR	24	1380	2016	3135	3796	4931	6222			
9507055	TFH 2511Z			3Ø	5									
9507056	TAG 2516Z	4	112.5		9.81	1743	2704	4356	5335	7043	9038	1960	7/8"V.	5/8"V.
9507058	TAG 2522Z	5 1/2	134.8		12.5	2378	3542	5522	6688	8711	11062		1 1/8"V.	
9507057	TAGP 2516Z	4	112.5		9.81	1743	2704	4356	5335	7043	9038	1960	7/8"V.	
9507059	TAGP 2522Z	5 1/2	134.8		12.5	2378	3542	5522	6688	8711	11062	1960	1 1/8"V.	

Capacity Rating Basis: 32°C Ambient, 32°C Evaporator Outlet, 54.5°C Condensing, 32°C Liquid entering Expansion Valve.

*MOC: Maximum Operating Current.

Motor Types:

- RSIR: Resistance Start, Induction Run
 - CSIR: Capacitor Start, Induction Run
 - CSR: Capacitor Start and Run
 - 3Ø: 3 Phase, 50 Hz, 400 Volt
- } 1 Phase, 50 Hz, 220-240 Volt

All models are also suitable for operation with R507 and R407C



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R404A – Hermetic – For Medium / High Temperature Applications



Features

- All models suit Capillary Tube or Expansion Valve Operation
- Equalisation Ports on TAGP models for parallel applications models
- Rotalock suction and discharge valves on FH/TFH and TAG models
- Oil sight glass on FH/TFH and TAG models
- Anti-Vibration mounts supplied
- Crankcase heater on FH/TFH and TAG
- Charged with polyolester oil and dry nitrogen
- Fan cooling required on all models

Cat. No.	Model No.	Nom. HP	Displ. cm ³ / rev	Motor Type	MOC: Amps	R404A Capacity: Watts								Oil Charge cm ³	Connections						
						Evaporating Temperature: °C									Suct.	Disch.					
						-25	-20	-15	-10	-5	0	7.2	15								
3500025	CAJ 9480Z-FZ	5/8	15.2	CSR	6.7	338	506	698	921	1185	1500	2065	2873	887	1½"V.	5/16"T.					
3500026	TAJ 9480Z-FZ			3Ø	4.0																
3500027	CAJ 9510Z-FZ	1	18.3	CSR	8.4	445	652	888	1165	1492	1882	2585	3590		5/8"V.						
3500028	TAJ 9510Z-FZ			3Ø	1.3																
3500029	CAJ 9513Z-FZ	1⅛	24.2	CSR	11.3	450	728	1049	1424	1867	2391	3322	4630			3/8"T.					
3500030	TAJ 9513Z-FZ			3Ø	4.5																
3500031	CAJ 4517Z-FZ	1¼	25.95	CSR	12.7			1252	1648	2112	2661	3650	5053								
2708880	TAJ 4517Z-FZ			3Ø	4.8																
9507009	CAJ 4519Z-FZ	1½	34.5	CSR	15.2			1611	2146	2768	3498	4791	6614								
9507033	TAJ 4519Z-TZ			3Ø	6.3																
2708881	FH 4522Z	1¾	39.95	CSR	16			1541	2240	3038	3947	5475	7459	1480		5/8"	1½"				
2708882	TFH 4522Z			3Ø	5.4																
9507034	FH 4524Z	2	43.5	CSR	18.1			1835	2570	3407	4361	5977	8101		7/8"V.			1½"V.			
9507035	TFH 4524Z			3Ø	6.3																
9507036	FH 4531Z	2½	56.65	CSR	26.3			2382	3300	4419	5706	7782	10222								
9507037	TFH 4531Z			3Ø	8.2																
9507038	FH4540Z	3	74.25	CSR	27			3388	4475	5771	7276	9814	13056						1960	1⅛"V.	5/8"V.
9507039	TFH 4540Z	3	74.25	3Ø	9.2																
9507040	TAG 4546Z	4	90.2		11.4			3461	4922	6752	8958	12805	17880	1⅛"V.							
9507042	TAG 4553Z	4½	100.7		13.4												4363	5895			
9507044	TAG 4561Z	5	112.5		14			5322	7077	9294	11972	16636	22760								
9507046	TAG 4568Z	6	124.4		15.2												5788	7710			
9507048	TAG 4573Z	6½	134.8		18			2806	4292	5996	7956	11297	15719							1⅛"V.	
9507041	TAGP 4546Z	4	90.2		11.4												3461	4922			
9507043	TAGP 4553Z	4½	100.7		13.4			4363	5896	7942	10452	14772	20227	1⅛"V.							
9507045	TAGP 4561Z	5	112.5		14												5322	7077			
9507047	TAGP 4568Z	6	124.4		15.2			5788	7710	10163	13123	18228	24806								
9507049	TAGP 4573Z	6½	134.8		18																

Capacity Rating Basis: 35°C Ambient, 11K Return Gas Superheat, 54.5°C Condensing, 46°C Liquid entering Expansion Valve.

*MOC: Maximum Operating Current.

Motor Types:

- CSIR: Capacitor Start, Induction Run
 - CSR: Capacitor Start and Run
 - 3Ø: 3 Phase, 50 Hz, 400 Volt
- } 1 Phase, 50 Hz, 220-240 Volt

All models are also suitable for operation with R507



Compressors

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R22 – Hermetic – For Air Conditioning Applications



Features

- Anti-Vibration mounts supplied
- Crankcase heater on TAG models
- Fan cooling required on all models
- Charged with mineral oil and dry nitrogen

Cat. No.	Model No.	Nom. HP	Displ. cm ³ /rev	Motor Type	MOC: Amps	Exp. Device	R22 Capacity: Watts						Oil Charge cm ³	Connections			
							Evaporating Temperature: °C							cm ³	Disch.	Proc.	
							-10	-5	0	7.2	10	15					
2708883	AE 5465E	½	12.05	PSC	5.7	C	718	928	1169	1572	1747		450	¾"T.	¼"T.	⅜"T.	
2708884	AJ 5510E	¾	18.6		7.3			1296	1728	2447	2759	3359	475			½"T.	⅝" T.
2708885	AJ 5512E	1	21.75		8.2			1662	2130	2909	3248	3898					
2708886	AJ 5513E		24.2		8.8			1894	2386	3214	3574	4270					
2708887	AJ 5515E	1¼	25.95		12			2169	2722	3632	4023	4770					
2708888	AJ 5518E	1½	32.7		13.1			2688	3369	4551	5082	6138	1½"T.	⅝" T.			
2708889	AJ 5519E		34.45		13.6			2756	3468	4699	5250	6245					
2708890	FH 5522E	1¾	39.95				14.5	C/V	2210	2921	3768	5228	5873		1330	⅝"T.	¾"T.
2708891	TFH 5522E		3Ø	5.8		2443	3219		4140	5718	6413						
2708892	FH 5524E	2	43.5	PSC	16.1	C											
2708893	TFH 5524E		3Ø	5.8	C/V												
2708894	FH 5527E	2¼	49.1	PSC	19.5	C	2791	3620	4650	6487	7314						
2708895	TFH 5527E		3Ø	6.5	C/V												
2708896	FH 5531E	2½	56.65	PSC	23	C	3494	4507	5654	7543	8352		¾"T.				
2708897	TFH 5531E		3Ø	6.3	C/V												
2708898	FH5540E	3	74.25	PSC	30.5	C											
2708899	TFH 5540E			3Ø	10	C/V	4291	5748	7336	9855	10909						
2708900	TFH 5540E																
2708901	TAG 5546E						3¾	90.2	10	4368	5917	7839	11262	12802	15961		
2708902	TAG 5553E	4	100.7		12		5313	6984	9104	12944	14688	18406					
2708903	TAG 5561E	5	112.5		15		6131	8146	10594	14878	16786	20658					
2708904	TAG 5568E	6	124.4		15.6		6966	9149	11860	16690	18864	23359					
2708905	TAG 5573E	6½	134.8				18		7508	9763	12632	17841	20210	25204	1960	7⁄8"T.	½"T.

Capacity Rating Basis: 35°C Ambient, 11K Return Gas Superheat, 54.5°C Condensing, 46.2°C Liquid entering Expansion Valve.

*MOC: Maximum Operating Current.

Motor Types:

- PSC = Permanent Split Capacitor, 1 Phase, 50 Hz. 220-240 Volt
- 3Ø: 3 Phase, 50 Hz, 400 Volt

Expansion Device:

- C = Capillary Tube
- C/V = Capillary Tube or Expansion Valve

Compressors



Copeland

CS Series



The Copeland CS welded hermetic compressors are designed for commercial refrigeration applications. They feature a “low-side” gas management system. The steel shell contains cool, low pressure suction gas that surrounds and cools the electric motor and mechanical compressor parts, resulting in lower motor and discharge gas temperatures.

All of Copeland’s newer CS products are based on the proven success of the CR6 technology. The flagship CR6 design employs enhanced gas management, better lubrication, and anti-slug suction. The result is improved energy efficiency, reduced sound and discharge pulse and excellent reliability and durability.

Service Pack Compressors with the -595 BOM are ideal for field replacement applications as they are supplied complete with internal motor protection, rubber mounting kit and electrics (single phase only).

If service valves are required these must be ordered separately.

Features

- Proven Copeland long term performance & reliability
- Optimised motors offer high energy efficiency and COP
- Charged with polyester lubricant
- High volumetric efficiency at high ambient conditions
- Designed for low noise, quiet operation

Single Phase

Cat. No.	Model No.	Elect. Supply: Volts/Ph.	Nom HP	Displ.: cm ³ /rev	Connections		Full Load Amps	Locked Rotor Amps	Capacities: Watts			Previous Model
					Suction	Discharge			R404A		R134a	
									-25°C SST	-5°C SST	-5°C SST	
2708756	CS10K6E-PFJ-595	240/1	1.75	38.1	1 1/4"	1"	10.1	55	650	3450	1755	CR18KQ
2708757	CS14K6E-PFJ-595		2.25	48.6			12.5	58	1300	4650	2435	CR28KQ
2708754	CS18K6E-PFJ-595		2.75	61.4			13.6	58	1495	6000	3300	CR33KQ

Three Phase

Cat. No.	Model No.	Elect. Supply: Volts/Ph.	Nom HP	Displ.: cm ³ / rev	Connections		Full Load Amps	Locked Rotor Amps	Capacities: Watts			Previous Model
					Suction	Discharge			R404A		R134a	
									-25°C SST	-5°C SST	-5°C SST	
2708755	CS14K6E-TFD-595	415 Volts 3 Phase	2.25	48.6	1 1/4"	1"	4.2	28	1300	4650	2435	CR24/28KQ
2708758	CS18K6E-TFD-595		2.75	61.4			4.7	33	1495	6000	3450	CR33KQ
2708759	CS20K6E-TFD-595		3	74.3			5.1	40	1705	6800	3850	CR41KQ
2708760	CS27K6E-TFD-595		4	92.4			8.5	41	2365	8850	5050	CR53KQ
2708761	CS33K6E-TFD-595		5	106.2			9.9	45	2950	10600	5900	CRN0500

Ratings at ARI conditions, 45°C Condensing temperature, 11k Suction superheat, 8k Subcooling

CS Series Rotalock Valve Selection

Rotalock Size	1"	1"	1 1/4"	1 1/4"
Connection ODS	3/8"	1/2"	3/4"	7/8"
Valve Cat. No.	2712251	2712252	2712255	2712256
List Price \$ Exc. GST	\$70.88	\$70.88	\$122.22	\$130.98
Seal Cat. No.	2712264	2712264	2712265	2712265
List Price \$ Exc. GST	\$10.26	\$10.26	\$10.26	\$10.26
CS10K6E-PFJ-595	D		S	
CS14K6E-PFJ-595	D		S	
CS18K6E-PFJ-595	D		S	
CS14K6E-TFD-595	D		S	
CS18K6E-TFD-595	D		S	
CS20K6E-TFD-595	D		S	
CS27K6E-TFD-595	D		S	
CS33K6E-TFD-595		D		S



Compressors

Danfoss

Hermetic Reciprocating - R404A/R507

Low Temperature Applications



Cat. No.	Model No.	Part No.	Displ. cm ³ /rev	Motor Type	Oil Charge cm ³	R404A/R507 Refrigeration Capacities: Watts									
						Evaporating Temperature: °C									
						-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-5
2706479	FR6CL	103U2670	6.23	CSIR	450	77	108	145	189	243	263	307	383	473	578
2706480	FR8.5CL	103U2890	7.95			99	126	168	222	290	317	372	468	577	-
2707384	SC10CL	104L2523	10.29		550	-	-	168	258	365	405	489	634	800	991
2706545	SC12CL	104L2623	12.87			58	140	237	353	490	541	650	835	1048	1292
2706549	SC15CL	104L2853	15.28			-	151	299	452	615	673	792	988	1208	1458
2706543	SC18CL	104L2123	17.69	CSR	600	167	271	395	452	715	781	918	1154	1425	1735
2706551	SC21CL	104L2322	20.95			226	325	455	617	813	887	1042	1306	1606	-

Rating Conditions: 45°C Condensing Temp., 32°C Ambient & Suction Gas Temp., 45°C Liquid Temp.

R404A/R507

Medium & High Temperature Applications

Cat. No.	Model No.	Part No.	Displ. cm ³ /rev	Motor Type	Oil Charge cm ³	R404A/R507 Refrigeration Capacities: Watts								
						Evaporating Temperature: °C								
						-20	-15	-10	-5	0	5	7.2	10	15
2706632	TL4DL	102U2038	3.86	CSIR	280	196	229	281	349	432	527	572	631	-
2707395	FR6DL	103U2680	6.23		450	317	385	471	576	698	840	907	999	1177
2706544	SC10DL	104L2525	10.29		600	471	611	775	968	1192	1450	1576	1747	2085
2706546	SC12DL	104L2625	12.87			609	806	1028	1279	1565	1890	2046	2258	2674
2707398	SC15DL	104L2856	15.28	CSR		759	964	1207	1493	1825	2210	2397	2652	3156

Rating Conditions: 45°C Condensing Temp., 32°C Ambient & Suction Gas Temp., 45°C Liquid Temp.

R134a

Low Voltage- 12VDC & 24VDC

Cat. No.	Model No.	Part No.	Description	Suits
2706432	BD35F	195B0574	Compressor with Controller Module	-
2706433	BD50F	195B0576		
2707420	BD80F	195B0331		
2706456	-	101N0220	Controller Module only	BD35F BD50F
2707423		101N0290		BD80F



Compressors

Danfoss

Hermetic Reciprocating - R134a

Low & Medium Temperature Applications



Cat. No.	Model No.	Part No.	Displ. cm ³ /rev	Motor Type	Oil Charge cm ³	R134a Refrigeration Capacities: Watts								
						Evaporating Temperature: °C								
						-35	-30	-25	-23.3	-20	-15	-10	-5	0
2707413	TL3F	102G4300	3.13	RSIR	180	-	-	42	48	60	82	108	138	173
2706630	TL5F	102G4501	5.08			43	60	82	91	110	144	183	-	-
2707414	TLS6F	102G4620	5.70			58	77	104	115	139	183	235	-	-
2707415	NL6F	105G6606	6.13		320	52	77	110	123	151	200	258	-	-
2707422	NL7F	105G6706	7.27			71	99	136	151	182	238	303	-	-
2706518	NL9F	105G6802	8.35			80	112	155	172	208	272	346	-	-
2706517	NL11F	105G6900	11.15			102	144	200	223	271	356	455	-	-
2706540	SC15F	104G8500	15.28	CSIR	550	100	155	230	260	325	439	573	-	-
2707418	SC18F	104G8800	17.69		550	129	194	280	314	388	518	669	842	-
2707416	SC21F	104G8100	20.95			185	245	335	375	455	610	780	990	-

Rating Conditions: 55°C Condensing Temp., 32°C Ambient & Suction Gas Temp., 55°C Liquid Temp.

R134a

Low, Medium & High Temperature Applications

Cat. No.	Model No.	Part No.	Displ. cm ³ / rev	Motor Type	Oil Charge cm ³	R134a Refrigeration Capacities: Watts												
						Evaporating Temperature: °C												
						-35	-30	-25	-23.3	-20	-15	-10	-5	0	5	7.2	10	15
2707438	PL35G	101G0250	2.00	RSIR	150	-	-	28.0	31.6	39.3	53.0	69.4	89.0	112	140	153	172	209
2706628	TL3G	102G4350	3.13		280	-	25.3	40.9	46.7	59.1	80.5	106	136	170	211	231	258	312
2706629	TL4G	102G4452	3.86			-	40.8	58.3	65.3	80.3	107	140	180	226	280	306	342	413
2706631	TL5G	102G4550	5.08			-	55.6	79.0	87.9	107	139	178	224	278	341	372	414	497
2706474	FR6G	103G6660	6.23		450	-	47.7	83.3	96.5	124	171	226	290	365	452	494	552	-
2706475	FR7.5G	103G6680	6.93			-	61.7	99.0	113	142	193	254	325	408	505	553	618	-
2706476	FR8.5G	103G6780	7.95			-	84.9	123	138	171	228	298	381	478	592	647	722	-
2707443	FR10G	103G6880	9.05			-	91.9	136	152	188	250	324	412	516	638	697	779	-
2706477	FR10G	103G6890*				-	115	170	191	233	307	395	501	628	780	-	-	-
2706478	FR11G	103G6980	11.15			-	115	170	191	233	307	395	501	628	780	-	-	-
2707444	SC10G	104G8000	10.29		550	23.0	60.0	113	135	183	268	369	486	618	764	833	925	1100
2706539	SC12G	104G8240	12.87			64.6	113	175	199	252	348	464	603	768	960	1064	1182	1437
2706541	SC15G	104G8520	15.28	CSIR		-	-	164	206	290	424	568	728	908	1110	1207	1340	1600
2706542	SC18G	104G8820	17.69		550	-	-	283	318	394	526	684	870	1087	1337	1459	1624	1950
2706550	SC21G	104G8140	20.95	CSR		-	-	333	370	453	606	792	1012	1268	1560	1700	1889	2256

Rating Conditions: 55°C Condensing Temp., 32°C Ambient & Suction Gas Temp., 55°C Liquid Temp.

* Fitted with oil cooler

R22

Low & High Temperature Applications

Cat. No.	Model No.	Part No.	Refrig.	Appl.
2707400	SC10C	104L2516	R22	LBP
2707401	SC12C	104L2674		
257075	SC15BM	104L2847		
2707402	SC18BM	104L2118		
2707403	SC21BM	104L2317		

Cat. No.	Model No.	Part No.	Refrig.	Appl.
2707404	SC10D	104L2517	R22	HBP
2706547	SC12D	104L2684		
2707406	SC15D	104L2839		



Compressors

Danfoss

Compressor Spare Parts

Model No.	Relay HST		Relay LST		Start Capacitor			Electrical Cover								
	Cat. No.	Part No.	Cat. No.	Part No.	Cat. No.	Part No.	Size µf	Cat. No.	Part No.							
FR6CL	2706453	117U6015		-	2706577	117U5015	80	2706445	103N2010							
FR8.5CL	2706452	117U6010			2706578	117U5017		2711818	103N2009							
SC10CL	2706449	117U6003				-										
SC12CL	2706580	117U6005														
SC15CL	2706454	117U6019														
SC18CL	2711395	117-7012														
SC21CL																

Model No.	Relay HST		Relay LST		Start Capacitor			Electrical Cover		
	Cat. No.	Part No.	Cat. No.	Part No.	Cat. No.	Part No.	Size µf	Cat. No.	Part No.	
TL4DL	2706447	117U6001		-	2706576	117U5014	60	2706445	103N2010	
FR6DL	2706452	117U6010			2706577	117U5015	80			
SC10DL	2706580	117U6005			2706578	117U5017		2711818	103N2009	
SC12DL	2706454	117U6019								
SC15DL	2711396	117-7028				-	-			

Model No.	Relay HST		Relay LST		Start Capacitor			Electrical Cover	
	Cat. No.	Part No.	Cat. No.	Part No.	Cat. No.	Part No.	Size µf	Cat. No.	Part No.
TL3F	2711397	117U6007	2706579	103N0011	2706576	117U5014	60	2706445	103N2010
TL4F	2706451	117U6009							
TL5F	2706450	117U6004							
TLS6F	2706450	117U6004							
NL6F	2706450	117U6004			2706577	117U5015	80		
NL7F	2706446	117U6000							
NL9F	2706447	117U6001							
NL11F	2706448	117U6002							
SC15F	2706449	117U6003	2706533	103N0002	2706578	117U5017	2711818	103N2009	
SC18F	2706580	117U6005		-					
SC21F	2706454	117U6019							

Model No.	Relay HST		Relay LST		Start Capacitor			Electrical Cover	
	Cat. No.	Part No.	Cat. No.	Part No.	Cat. No.	Part No.	Size µf	Cat. No.	Part No.
PL35G	2706455	117U6021	2706579	103N0011	2706576	117U5014	60		103N0491
TL3G	2706451	117U6009						2706445	103N2010
TL4G	2706450	117U6004							
TL5G	2706446	117U6000							
FR6G									
FR7.5G	2706447	117U6001							
FR8.5G	2706453	117U6015							
FR10G	2706452	117U6010							
FR10G									
FR11G									
SC10G	2706448	117U6002	2706533	103N0002	2706578	117U5017	80	2711818	103N2009
SC12G	2706449	117U6003							
SC15G	2706580	117U6005		-					
SC18G	2706454	117U6019							
SC21G	2711396	117-7028				-	-		

Compressors



Maneurop

MTZ Series - R404A, R507, R407C, R134a, R22 - Hermetic Reciprocating

Features

- Charged with Maneurop Polyolester Oil 160PZ
- Suction and discharge solder sleeves supplied
- Rotalock service valves or angle adaptors sold separately
- Anti-Vibration mounts supplied
- Fitted with oil sight glass and oil equalisation fitting



Cat. No.	Model No.	Elect. Supply Volts / Phase	Displacement		No. of Cylinders	Conn. Type	Connections		Oil Charge Litres	Weight kg			
			cm ³ / rev	m ³ /hr @ 2900 rpm			Suct.	Disch.					
	MTZ18-4VI	415/3	30.23	5.26	1	Rotalock	1"	1"	0.95	21			
2708705	MTZ18-5VI	240/1											
2706652	MTZ22-4VI	415/3	38.12	6.63						23			
2706653	MTZ22-5VI	240/1											
2706654	MTZ28-4VI	415/3	48.06	8.36						24			
2706655	MTZ28-5VI	240/1											
2706656	MTZ32-4VI	415/3	53.86	9.37			1 1/4"	1 1/4"		25			
2706657	MTZ32-5VI	240/1											
2706658	MTZ36-4VI	415/3	60.47	10.52						26			
2706659	MTZ36-5VI	240/1											
2706660	MTZ40-4VI	415/3	67.89	11.81	2	Rotalock	1 3/4"	1 1/4"	1.8	37			
2706661	MTZ44-4VI		76.22	13.26									
2706662	MTZ50-4VI		85.64	14.90						39			
2706663	MTZ56-4VI		96.13	16.73									
2706664	MTZ64-4VI		107.71	18.74						41			
2706665	MTZ72-4VI		120.94	21.04									
2706666	MTZ80-4VI		135.78	23.63	4				3.9	60			
2706648	MTZ100-4VI		171.26	29.80						64			
2706649	MTZ125-4VI		215.44	37.49						67			
2706650	MTZ144-4VI		241.87	42.09						69			
2706651	MTZ160-4VI		271.55	47.25									



MTZ Compressor Rotalock Valve Selection Guide

Rotalock Size	1"		1 1/4"			1 3/4"	
Connection ODS	3/8"	1/2"	5/8"	3/4"	7/8"	7/8"	1 1/8"
Valve Cat. No.	2712251	2712252	2712254	2712255	2712256	2712258	2712259
Seal Cat. No.	2712264	2712264	2712265	2712265	2712265	2712266	2712266
MTZ18	D	S					
MTZ22	D	S					
MTZ28	D	S					
MTZ32		D	S				
MTZ36		D	S				
MTZ40		D	S				
MTZ44				D		S	
MTZ50				D		S	
MTZ56				D		S	
MTZ64				D		S	
MTZ72				D		S	
MTZ80				D			S
MTZ100					D		S
MTZ125					D		S
MTZ144					D		S
MTZ160					D		S

S = Suction D = Discharge

Standard usage - other combinations are possible

Compressors

Maneurop

NTZ Series - R404A, R507 - Hermetic Reciprocating

Features

- Charged with Maneurop Polyolester Oil 160Z
- Suction and discharge solder sleeves supplied
- Rotalock service valves or angle adaptors sold separately
- Anti-Vibration mounts supplied
- Fitted with oil sight glass and oil equalisation fitting



Cat. No.	Model No.	Part No.	Elect. Supply Volts / Phase	Displacement		No. of Cyl.	Conn. Type	Connections		Oil Charge Ltrs.	Weight kg
				cm ³ / rev	m ³ /hr @ 2900 rpm			Suct.	Disch.		
2708721	NTZ048-5LR1	120F0087	240/1	48	8.4	1	Rotalock	1 1/4"	1"	0.95	21
2708727	NTZ048-4LR1	120F0001	415/3								23
2708728	NTZ068-5LR1	120F0088	240/1	68	11.8	2		1 3/4"	1 1/4"	1.8	
2706645	NTZ068-4LR1	120F0002	415/3								96
2706646	NTZ096-4LR1	120F0003		108	18.7						
2708736	NTZ108-4LR1	120F0004								136	23.6
2706647	NTZ136-4LR1	120F0005		215	37.5						
2708739	NTZ215-4LR1	120F0006				271				47.3	3.9
2708740	NTZ271-4LR1	120F0007									

NTZ Compressor Selection Guide

Current Model No.	Superceded Model
NTZ048-5LR1	LT/LTZ 22-5VI
NTZ048-4LR1	LT/LTZ 22-4VI
NTZ068-5LR1	LT/LTZ 28-5VI
NTZ068-4LR1	LT/LTZ 28-4VI
NTZ096-4LR1	LT/LTZ 40-4VI
NTZ108-4LR1	LT/LTZ 44-4VI
NTZ136-4LR1	LT/LTZ 50-4VI
NTZ215-4LR1	LT/LTZ 88-4VI
NTZ271-4LR1	LT/LTZ 100-4VI

NTZ Compressor Rotalock Valve Selection Guide

Rotalock Size	1"	1 1/4"	1 3/4"
Connection ODS	1/2"	5/8"	3/4"
Valve Cat. No.	2712252	2712254	2712255
Seal Cat. No.	2712264	2712265	2712266
NTZ048	D	S	
NTZ068	D	S	
NTZ096			D
NTZ108			D
NTZ136			D
NTZ215			D
NTZ271			D



Rotary Compressors

SCI

Rotary - For Air Conditioning Application

Cat. No.	Model No.	Refrig.	Norm. HP	Displ. cc/rev	Nom Cap. Watts	Volts	Current Amps	Run Cap. (μF/VAC)	Connections	
									Suct.	Disch.
2707445	RH135-VHAT	R22	0.87	13.5	2279	240	3.45	25/370	3/8"	5/16"
2707446	RH165-VHST		1.07	16.5	2814		4.2			
2707447	RH197-VHRT		1.34	19.7	3610		5.12	30/370	1/2"	
2707448	RH207-VHST		1.34	20.7	3670		5.3			
2707449	RH231-VHAT		1.47	23.1	4011		6.2	30/400		
2707450	RH247-VHAT		1.61	24.7	4407		6.0	35/400		
2707451	RH277-VHAT		1.74	27.7	4826		7.4			
2707452	PH28-VNET		1.68	28.1	4895		7.2	40/370	5/8"	
2707453	PH33-VPET		2.01	33.8	5977		8.6	50/370		
2707454	PH39-VPET		2.28	39	6884		10	60/400	3/8"	
2707455	NH56-VNHT		3.6	56.9	10209		16.1	60/420		3/4"
2707409	NH47-YDET		2.9	47.4	8372	415	5	N/A		5/8"
2707410	NH52-YDTT		3.4	52.4	9442		5.5	N/A	3/4"	

Rating Basis:

54.4°C Condensing
46.1°C Liquid Temperature

7.2°C Evaporating
35°C Ambient

35°C Suction Gas

ACTROL™

THE HOME OF COMPRESSORS

At Actrol, we have a comprehensive range of compressors for new and replacement applications. Hermetic, semi hermetic, scroll, screws and rotary, you name it – we've got it! And we only source world renowned companies such as Tecumseh, Emerson (Copeland), Bitzer, Danfoss (Maneurop), SCl, and others.



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Scroll Compressors

Copeland®

Copeland

ZR Series

The Copeland Scroll compressor is the result of large scale research and development efforts underway since 1979. These efforts have led to the production of the most advanced scroll compressor design currently available for air-conditioning, heat pump and medium temperature applications.

System manufacturers choose scroll compressors over other compressor technologies for several reasons: lower sound, superior efficiency and reliability, compatibility with heat pump applications and ease of design.

Features

- Suitable for R22 and R407C air conditioning applications
- Rotalock valves & electrical accessories to be ordered separately
- Charged with Polyolester oil
- Anti-vibration mounts supplied



Single Phase Stub Connection

Cat. No.	Model No.	Elect Supply: Volts/Ph.	Displ.: m³/hr	R22 Nominal Capacity: Watts @ 7.2°C	Replacement Oil Charge	Weight: kg	Type	Connections		Full Load Amps	Locked Rotor Amps
								Suct.	Disch.		
2709664	ZR22K3E-PFJ-522	240/1	5.34	5350	1.01L	25.9	Stub Tube	¾"	½"	11	47
2709665	ZR24K3E-PFJ-522	240/1	5.92	5900	1.01L	25				11.4	58
2700278	ZR28K3E-PFJ-522	240/1	6.83	6900	1.01L	27.2				15	61
2700279	ZR34K3E-PFJ-522	240/1	8.03	8250	1.12L	28.6				17	76
2709666	ZR36K3E-PFJ-522	240/1	8.61	8850	1.12L	29.5				18	82
2700280	ZR40K3E-PFJ-522	240/1	9.43	9760	1.12L	29.9				23	100
2709667	ZR42K3E-PFJ-522	240/1	9.95	10250	1.12L	30.4				23	97
2700281	ZR47K3E-PFJ-522	240/1	11.02	11500	1.12L	32.2		⅞"		23	114
2709670	ZR48K3E-PFJ-522	240/1	11.4	11400	1.12L	31.1				23	114
2700283	ZR61KCE-PFZ-522	240/1	14.37	14900	1.54L	41.3				30	150
2700285	ZR68KCE-PFJ-522	240/1	16.18	16700	1.72L	42.6				30	150

Three Phase Stub Connection

Cat. No.	Model No.	Elect Supply: Volts/Ph.	Displ.: m ³ /hr	R22 Nominal Capacity: Watts @ 7.2°C	Replacement Oil Charge	Weight: kg	Type	Connections		Full Load Amps	Locked Rotor Amps	
								Suct.	Disch.			
2700259	ZR28K3E-TFD-522	415/3	6.83	6900	1.01L	25.4	Stub Tube	3/4"	1/2"	5	32	
2703050	ZR40K3E-TFD-522	415/3	9.43	10300	1.12L	27.7				7	46	
2709669	ZR47KCE-TFD-522	415/3	11.16	11500	1.24L	29.9		7/8"		10	48	
2709668	ZR48KCE-TFD-522	415/3	11.4	11850	1.24L	28.1				10	50	
2709671	ZR54KCE-TFD-522	415/3	12.74	13200	1.83L	35.8				10	51.8	
2703051	ZR57KCE-TFD-522	415/3	13.43	13900	1.83L	36.3				11	61.8	
2700284	ZR61KCE-TFD-522	415/3	14.37	14900	1.83L	37.2				11	65	
2703053	ZR68KCE-TFD-522	415/3	16.18	16800	1.66L	38.6				13	74	
2703054	ZR72KCE-TFD-522	415/3	17.06	17700	1.66L	38.6				13	74	
2703055	ZR81KCE-TFD-522	415/3	18.75	19900	1.66L	39.9				15	101	
2703056	ZR94KCE-TFD-522	415/3	22.1	23300	2.4L	57.2		1 1/8"	7/8"	16	95	
2703058	ZR108KCE-TFD-522	415/3	24.9	26400	3.13L	60.3		1 3/8"		17	114	
2703059	ZR125KCE-TFD-522	415/3	29.1	31100	3.13L	61.2				19	125	
2703060	ZR144KCE-TFD-522	415/3	33.2	35200	3.13L	61.2				22	125	
2709676	ZR160KCE-TFD-522	415/3	36.4	37700	3.38L	64.9				28	140	
2709678	ZR190KCE-TFD-522	415/3	43.3	45900	3.38L	66.2				34	174	

Scroll Compressors

Copeland

ZR Series

Three Phase Rotalock Connection

Cat. No.	Model No.	Elect. Supply: Volts/Ph.	Displ.: m ³ /hr	R22 Nom. Cap.: Watts @7.2C	Repl. Oil Charge	Weight: kg	Type	Connections		Full Load: Amps	Locked Rotor: Amps
								Suct.	Disch.		
								Rotalock Size	Rotalock Size		
2703057	ZR94KCE-TFD-523	415/3	22.1	23300	2.4L	57.2	Rotalock	1 ³ / ₄ "	1 ¹ / ₄ "	16	95
2700290	ZR108KCE-TFD-523	415/3	24.9	26400	3.13L	60.3				17	114
2700291	ZR125KCE-TFD-523	415/3	29.1	31100	3.13L	61.2				19	125
2700292	ZR144KCE-TFD-523	415/3	33.2	35200	3.13L	61.2				22	125
2709677	ZR160KCE-TFD-523	415/3	36.4	37700	3.38L	64.9				28	140
2709679	ZR190KCE-TFD-523	415/3	43.3	45900	3.38L	66.2				34	174
2709675	ZR250KCE-TWD-523	415/3	56.6	56600	4.7L	140		2 ¹ / ₄ "	1 ³ / ₄ "	41	225

Note: Rotalock valves to be ordered separately.

Service Packs

Copeland's service pack compressors are used for replacement of both rotalock and stub tube ZR16 and ZR19 model.

These compressors will be superseded by ZR160 and ZR190 but please note that the dimensions and footprint will differ. Refer to Copeland's replacement guidelines for more detail.

Includes

- Rotalock compressor
- Kriwian 110/230V INT69SC2 module mounted on the compressor
- Extra 24V INT69SC2 module supplied loose
- Rotalock adaptor kits for field replacement of brazed version

Cat. No.	Model No.	Elect. Supply: Volts/Ph.	Displ. m ³ /hr	R22 Nom Cap: Watts 7.2C	Repl. Oil Charge	Weight: kg	Full Load: Amps	Locked Rotor: Amps	Type	Connections	
										Suct.	Disch.
2709672	ZR16M3E-TWD-961	415/3	32.55	37500	4.05L	103.1	28	167	Rotalock	1 ³ / ₄ "	1 ¹ / ₄ "
2709674	ZR19M3E-TWD-961	415/3	42.07	46000	4.05L	112.1	34	198		2 ¹ / ₄ "	1 ³ / ₄ "

Note: Rotalock valves to be ordered separately.

Tandem Ready

These compressors are similar to the standard ZR compressors but include additional connection points that are required for use in tandem operation.

Cat. No.	Model No.	Electrical Supply: Volts/Ph.	Displ.: m ³ /hr	Repl. Oil Charge: litres	Weight: kg	Type	Connections		Full Load: Amps	Locked Rotor: Amps
							Suct.	Disch.		
2709661	ZR54KCE-TFD-422	415/3	12.74	1.83	35.8	Stub Tube	7/8"	1/2"	10	51.8
2709662	ZR61KCE-TFD-422	415/3	14.37	1.83	37.2				11	65
2709663	ZR81KCE-TFD-422	415/3	18.75	1.66	39.9				15	101



Scroll Accessories

Motor Protection Module

Cat. No.	Part No.	Description	Suits
2711140	8564342	INT69 Motor Protection Module	All scroll Model where required including ZF, ZS, ZB, ZP series

ZR Series Electrical Accessories Selection Chart

Compressor Model No.	Run Capacitor				Start Capacitor				Relay		Crankcase Heater		
	Cat. No.	Part No.	Volt.	mFd	Cat. No.	Part No.	Volt.	mFd	Cat. No.	Part No.	Cat. No.	Part No.	Descr.
ZR22K3E-PFJ-522	2709617	014-0054-12			2709623	014-0058-31	330	88-106	2709615	040-0166-37	2709604	018-0095-00	240V 70W
ZR24K3E-PFJ-522													
ZR28K3E-PFJ-522	2709618	014-0054-36											
ZR28K3E-TFD-522													
ZR34K3E-PFJ-522	2709619	014-0054-40			2709623	014-0058-31	330	88-106	2709615	040-0166-37			
ZR36K3E-PFJ-522													
ZR40K3E-PFJ-522	2709620	014-0054-39	370	55									
ZR40K3E-TFD-522													
ZR42K3E-PFJ-522	2709621	014-0054-37	370	60	2709623	014-0058-31	330	88-106	2709615	040-0166-37			
ZR47K3E-PFJ-522													
ZR47KCE-TFD-522													
ZR48KCE-TFD-522													
ZR54KCE-TFD-522													
ZR57KCE-TFD-522													
ZR61KCE-PFZ-522	2709622	014-0054-20	440	50	2709624	014-0006-15	330	270-324	2709616	040-0046-24			
ZR61KCE-TFD-522													
ZR68KCE-PFJ-522	2709622	014-0054-20	440	50	2709624	014-0006-15	330	270-324	2709616	040-0046-24			
ZR68KCE-TFD-522													
ZR72KCE-TFD-522													
ZR81KCE-TFD-522													
ZR94KCE-TFD											2709605	018-0091-22	240V 90W
ZR108KCE-TFD													
ZR125KCE-TFD													
ZR144KCE-TFD													
ZR160KCE-TFD													
ZR190KCE-TFD													
ZR16M3E-TWD											2709614	018-0091-13	240V 70W
ZR19M3E-TWD													

ZR Series Scroll Compressor Rotalock Valve Selection

Rotalock Size	1 1/4"		1 3/4"		2 1/4"
	3/4"	7/8"	1 1/8"	1 3/8"	1 5/8"
Connection ODS					
Valve Cat. No.	2712255	2712256	2712259	2712260	2712262
Seal Cat. No.	2712265	2712265	2712266	2712266	2712267
Model No.					
ZR94KCE-TFD-523	D		S		
ZR108KCE-TFD-523	D		S		
ZR125KCE-TFD-523	D		S		
ZR144KCE-TFD-523		D		S	
ZR160KCE-TFD-523		D		S	
ZR190KCE-TFD-523		D		S	
ZR16M3E-TWD-961		D		S	
ZR19M3E-TWD-961			D		S

D = Discharge

S = Suction

Standard usage - other combinations are possible



Scroll Compressors



Copeland

ZP Series R410A For Air conditioning Applications

Features

- Charged with Polyolester oil
- Electrical accessories to be ordered separately
- Anti-vibration mounts supplied

Cat. No.	Model No.	Elect. Supply Volts / Phase	Displ. m ³ /hr	R410A Capacity Watts @ +7.2°C SST	Connection Type	Connections		Replacement Oil Charge Litres	Amps		Weight kg
						Suct.	Disch.		Rated Load Amps	Locked Rotor Amps	
2709690	ZP36KSE-PFZ-522	240/1	5.988	7920	Stub Tube	7/8"	1/2"	1.12	17.7	98.0	29.4
2709691	ZP36KSE-TFM-522	415/3		8030					6.6	46.0	
2709692	ZP42KSE-PFZ-522	240/1	6.929	9180					21.7	128.0	33.1
2709693	ZP42KSE-TFM-522	415/3		9060					6.8	43.0	
2709694	ZP51KSE-PFZ-522	240/1	8.383						22.5	126.0	34.4
2709695	ZP51KSE-TFM-522	415/3							8.6	51.5	33.0
2709696	ZP54KSE-PFZ-522	240/1	8.896	11750				22.5	115.5	34.4	
2709697	ZP54KSE-TFM-522	415/3		11650				8.6	51.5	33.0	
2709698	ZP57K3E-PFJ-522	240/1	9.438					1.54	27.3	153.0	41.7
2709699	ZP57K3E-TFD-522	415/3							10.7	74.0	
2709700	ZP61KCE-PFZ-522	240/1	10.108			1.66	29.3	147.0	40.3		
2709701	ZP61KCE-TFD-522	415/3		13250			10.9	64.0			
2709702	ZP67KCE-TFD-522		10.958				11.8	74.0	40.0		
2709703	ZP72KCE-TFD-522		11.679	15400			12.5	75.0			
2709704	ZP83KCE-TFD-522		13.430	17950			13.6	101.0			
2709705	ZP90KCE-TFD-522		14.642	19650		1 3/8"		3.13	16.4	95.0	57.6
2709706	ZP103KCE-TFD-522		16.763	22700					18.6	111.0	61.2
2709707	ZP120KCE-TFD-522		19.760	26800					20.0	118.0	
2709708	ZP137KCE-TFD-522		22.121	30100					20.7	118.0	62.1
2709709	ZP154KCE-TFD-522		24.867	33700					25.0	140.0	64.9
2709710	ZP182KCE-TFD-522		29.078	40100					28.6	174.0	66.2
2709711	ZP385KCE-TWD-522		60.8			1 5/8"	1 3/8"	6.3		310.0	177.8

Note: -593 & -522 model variants are interchangeable. -593 is an OEM number and -522 is the aftermarket model.

ZP Series Electrical Accessories Selection Chart

Compressor Model No.	Run Capacitor				Start Capacitor				Relay		Crankcase Heater		
	Cat. No.	Part No.	Volt	mFd	Cat. No.	Part No.	Volt.	mFd	Cat. No.	Part No.	Cat. No.	Part No.	Description
ZP36KSE-PFZ-522		014-0064-26	370	60	2709623	014-0061-27	330	88-106	2709615	040-0166-37	2709604	018-0095-00	240V 70W
ZP36KSE-TFM-522													
ZP42KSE-PFZ-522		014-0064-27	370	80	2709623	014-0061-27	330	88-106		040-0166-21			
ZP42KSE-TFM-522													
ZP51KSE-PFZ-522		014-0064-35	440	80	2709623	014-0061-27	330	88-106	2709615	040-0166-37			
ZP51KSE-TFM-522													
ZP54KSE-PFZ-522		014-0064-35	440	80	2709623	014-0061-27	330	88-106	2709615	040-0166-37			
ZP54KSE-TFM-522													
ZP57K3E-PFJ-522		014-0064-16	440	50									
ZP57K3E-TFD-522													
ZP61KCE-PFZ-522		014-0064-35	440	80							2709605	018-0091-22	240V 90W
ZP61KCE-TFD-522													
ZP67KCE-TFD-522													
ZP72KCE-TFD-522													
ZP83KCE-TFD-522													
ZP90KCE-TFD-522													
ZP103KCE-TFD-522													
ZP120KCE-TFD-522													
ZP137KCE-TFD-522													
ZP154KCE-TFD-522													
ZP182KCE-TFD-522													

Scroll Compressors

Copeland®

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ZB Series - R404A, R507 For Refrigeration Applications



Cat. No.	Model No.	Elect. Supply Volts / Phase	Displ. m ³ /hr	Connection Type	Connections		Replacement Oil Charge Litres	Amps		Weight kg
					Suct.	Disch.		Rated Load	Locked Rotor	
2709680	ZB15KQE-PFJ-524	220-240/1	5.92	Tube	3/4"	1/2"	1.18	11.4	58.0	23.0
2709681	ZB19KQE-TFD-524	380-420/3	6.80				1.45	4.3	32.0	25.0
2709682	ZB26KQE-TFD-524		9.90					7.1	46.0	28.0
2709683	ZB38KQE-TFD-524		14.50		7/8"		1.89	8.9	65.5	38.0
2709684	ZB48KQE-TFD-524		18.75				1.66	14.0		39.0
256382	ZB50KQE-TFD-551	380-420/3	19.80	Rotalock	1 3/4"	1 1/4"	2.51	14.3	90.0	59.0
2709685	ZB58KQE-TFD-551		22.10					16.4	95.0	60.0
2709686	ZB66KQE-TFD-551		25.70				3.25	17.3	111.0	65.0
2709687	ZB76KQE-TFD-551		28.80					19.2	118.0	
2709688	ZB95KQE-TFD-551		36.38					25.0	140.0	
2709689	ZB114KQE-TFD-551		43.35					27.9	174.0	

ZB Series Electrical Accessories Selection Chart

Compressor Model No.	Run Capacitor				Start Capacitor				Relay		Crankcase Heater		
	Cat. No.	Part No.	Volt.	mFd	Cat. No.	Part No.	Volt.	mFd	Cat. No.	Part No.	Cat. No.	Part No.	Watts
ZB15KQE-PFJ-524		014-0064-14	440	40	2709623	014-0061-27	330	88-106	2709615	040-0166-37	2709604	018-0095-00	70
ZB15KQE-TFD-524													
ZB19KQE-PFJ-524		014-0064-25	370	45									
ZB19KQE-TFD-524													
ZB21KQE-PFJ-524		014-0064-26	370	60									
ZB21KQE-TFD-524													
ZB26KQE-PFJ-524		014-0064-26	370	60									
ZB26KQE-TFD-524													
ZB30KQE-TFD-524													
ZB38KQE-TFD-524													
ZB45KQE-TFD-524											2709605	018-0091-22	90
ZB48KQE-TFD-524													
ZB50KQE-TFD-551													
ZB58KQE-TFD-551													
ZB66KQE-TFD-551													
ZB76KQE-TFD-551													
ZB95KQE-TFD-551													
ZB114KQE-TFD-551													

ZB Series Scroll Compressor Rotalock Valve Selection

S = Suction
D = Discharge

Standard usage -
other combinations are possible

Rotalock Size	1 1/4"	1 3/4"
Connection ODS	7/8"	1 1/8"
Valve Cat. No.	2712256	2712259
Seal Cat. No.	2712265	2712266
ZB50KQE-TFD-551	D	S
ZB58KQE-TFD-551	D	S
ZB66KQE-TFD-551	D	S
ZB76KQE-TFD-551	D	S
ZB95KQE-TFD-551	D	S
ZB114KQE-TFD-551	D	S

ZB Series BOM Chart

Bill of Materials (BOM) numbers identify specific compressor features

BOM	523	524	558	559	550	551
Stub Tube		x	x		x	
Rotalock	x			x		x
Sight Glass			x	x	x	x
Schrader Valve					x	x

Scroll Compressors

Copeland®



Copeland

ZF Series - R404A For Low Temperature Applications

Features

- Charged with Polyolester oil
- Anti-vibration mounts supplied
- Suitable for R404A low temperature applications
- Rotalock valves and electrical accessories should be ordered separately

Cat. No.	Model No.	Elect. Supply Volts / Phase	Displ. m ³ /hr	R404A Capacity Watts @ -25°C SST	Connection Type	Connections		Replacement Oil Charge Litres	Amps		Winding Resist. Ohm	Weight kg
						Suct.	Disch.		Rated Load Amps	Locked Rotor Amps		
2709595	ZF09K4E-TFD-551	415/3	8.0	2950	Rotalock	1 1/4"	1"	1.1	6	40	4.83	30
2709596	ZF11K4E-TFD-551		9.9	3700					7	46	4.03	31
2709597	ZF13K4E-TFD-551		11.8	4300				1.4	8	51.5	3.64	41
2709598	ZF15K4E-TFD-551		14.5	5250				1.7	10	64	2.75	42
2709599	ZF18K4E-TFD-551		17.2	6400					12	74	2.27	44
2709600	ZF24K4E-TWD-551		20.9	7900		1 3/4"	1 1/4"	4	16.1	99	1.41	100
2709601	ZF33K4E-TWD-551		28.9	11000					22.3	127	1.02	100
2709602	ZF40K4E-TWD-551		35.6	13500				4.1	25.1	167	0.83	110
2709603	ZF48K4E-TWD-551		42.1	15600		2 1/4"	1 3/4"	1.66	30.6	198	0.72	119

Refrigeration Capacity based on +40°C SCT, 20°C Suction Gas Return

ZF Series Accessories Selection Chart

Liquid Injection Kits required for application at less than -25°C SST

Compressor Model No.	Discharge Temp.Controller (DTC)		Capillary Kit		Solenoid Valve		Solenoid Coil		Crankcase Heater							
	Cat. No.	Part No.	Cat. No.	Part No.	Cat. No.	Part No.	Cat. No.	Part No.	Cat. No.	Part No.						
ZF09K4E-TFD-551	2708314	8563054							2709604	8561105						
ZF11K4E-TFD-551																
ZF13K4E-TFD-551																
ZF15K4E-TFD-551																
ZF18K4E-TFD-551																
ZF24K4E-TWD-551			2708316	8546437	2711327	200RB4T3T	2711311	ASC2								
ZF33K4E-TWD-551			2708317	8546415												
ZF40K4E-TWD-551			2708318	8546448												
ZF48K4E-TWD-551																

Discharge Gas Thermostat (120°C)

Cat. No.	Part No.	List Price \$ Exc. GST
2708315	2981196	\$89.15

ZF Series Copeland Scroll Compressor Rotalock Valve Selection

Rotalock Size	1"	1 1/4"	1 3/4"	1 3/4"	2 1/4"
Connection ODS	1/2"	7/8"	1 1/8"	1 3/8"	1 5/8"
Valve Cat. No.	2712252	2712256	2712259	2712260	2712262
Seal Cat. No.	2712264	2712265	2712266	2712266	2712267
ZF09K4E-TFD-551	D	S			
ZF11K4E-TFD-551	D	S			
ZF13K4E-TFD-551	D	S			
ZF15K4E-TFD-551	D	S			
ZF18K4E-TFD-551	D	S			
ZF24K4E-TWD-551		D	S		
ZF33K4E-TWD-551		D		S	
ZF40K4E-TWD-551		D		S	
ZF48K4E-TWD-551			D		S

D = Discharge

S = Suction

Standard usage - other combinations are possible

Scroll Compressors



Danfoss

HRP, HLP & HCP Series



Cat. No.	Model No.	Part No.	Elect. Supply Volts / Phase	Displacement		Nominal HP	Nominal Capacity: Kw	Connection Type	Weight kg
				cm ³ / rev	m ³ /hr				
2707495	HRP034T5LP6	120U2019	240/1	46.2	8.0	2.8	8.1	Stub	31
	HRP038T5LP6	120U0961				3.0	8.9		
	HRP038T4LP6	120U1006	415/3			3.0	8.9		
2707497	HRP040T5LP6	120U1929	240/1	54.4	9.5	3.3	9.5		31
2706486	HRP040T4LP6	120U1016	415/3	54.4	9.5	3.3	9.7		31
	HRP045T5LP6	120U0976	240/1			3.5	10.7		
	HRP045T4LP6	120U1036	415/3			3.5	10.9		
2707501	HRP047T4LP6	120U1046	415/3	64.1	11.2	3.8	11.6		31
	HRP058T5LP6	120U1596	240/1			4.5	13.8		
	HRP058T4LP6	120U1701	415/3			4.5	14.0		
2706487	HRP060T5LP6	120U1606	240/1	80.9	14.1	5.0	14.3		37
2706489	HRP060T4LP6	120U1726	415/3	80.9	14.1	5.0	14.5		37
2707504	HRP068T5LP6	120U1621	240/1	93.1	16.2	5.7	16.0		37
2706493	HLP068T4LP6	120U2014	415/3	93.1	16.2	5.7	16.0		37
2706490	HLP072T4LC6	120U1756		98.7	17.2	6.0	17.5		37
2706491	HLP075T4LC6	120U1766		102.7	17.9	6.5	18.4		37
2706492	HLP081T4LC6	120U1781		110.9	19.3	7.5	20.0		37
2706485	HCP094T4LC6	120U0601		126.0	21.9	8.3	23.1		44
2706483	HCP109T4LC6	120U0376		148.8	25.9	9.0	27.0		45
2706484	HCP120T4LC6	120U0401		162.4	28.3	10.0	29.1		45

Scroll Compressors

Maneurop

Maneurop SM Series R22

Features

- Anti-Vibration mounts supplied

- Charged with Maneurop Mineral Oil 160P
- Rotalock service valves or angle adaptors sold separately



Cat. No.	Model No.	Elect. Supply Volts / Phase	Displacement		Connection Type	Connections		Oil Charge Litres	Weight kg
			cm ³ /rev	m ³ /hr @ 2900 rpm		Suct.	Disch.		
2707457	SM084-4VI	415/3	114.5	19.92	Stub	1 1/8"	3/4"	3.25	72
2707458	SM090-4VI		120.5	20.97					
2707468	SM100-4VI		127.2	22.13					
2706557	SM110-4VI		144.2	25.09					
2706552	SM115-4RI		155.0	26.97	Rotalock	1 3/4"	1 1/4"	3.80	80
2706558	SM120-4VI		166.6	28.99	Stub	1 3/8"	7/8"	3.25	
2706553	SM125-4RI		166.6	28.99	Rotalock	1 3/4"	1 1/4"	3.80	
2706559	SM148-4VAI		199.0	34.60	Stub	1 3/8"	7/8"	3.60	
2706554	SM160-4RAI		216.6	37.69	Rotalock	2 1/4"	1 3/4"	4.00	94
2706560	SM161-4VAI		216.6	37.69	Stub	1 3/8"	7/8"	3.30	86
2706555	SM185-4RI		249.9	43.48	Rotalock	2 1/4"	1 3/4"	6.60	103

SZ Series R134a, R407C

Features

- Charged with Maneurop Polyester Oil
- Rotalock service valves or angle adaptors sold separately

- Anti-Vibration mounts supplied



Cat. No.	Model No.	Elect. Supply Volts / Phase	Displacement		Connection Type	Connections		Oil Charge Litres	Weight kg
			cm ³ /rev	m ³ /hr @ 2900 rpm		Suct.	Disch.		
2707479	SZ084-4VI	415/3	114.5	19.92	Stub	1 1/8"	3/4"	3.30	64
2707481	SZ090-4VI		120.5	20.97					65
2707482	SZ100-4VI		127.2	22.13					73
2707483	SZ110-4VI		144.2	25.09					78
2707484	SZ115-4RI		155.0	26.97	Rotalock	1 3/4"	1 1/4"	3.80	78
2707485	SZ120-4VI		166.6	28.99	Stub	1 3/8"	7/8"	3.30	73
2707486	SZ125-4RI		166.6	28.99	Rotalock	1 3/4"	1 1/4"	3.80	78
2706561	SZ148-4VAI		199.0	34.60	Stub	1 3/8"	7/8"	3.60	88
2707488	SZ160-4RAI		216.6	37.69	Rotalock	2 1/4"	1 3/4"	4.00	90
2707489	SZ161-4VAI		216.6	37.69	Stub	1 3/8"	7/8"	3.60	88
2707490	SZ175-4RI		233.0	40.54	Rotalock	2 1/4"	1 3/4"	6.20	100
2706556	SZ185-4RI		249.9	43.48					
2707492	SZ185-4CAI		249.9	43.48	Stub	1 5/8"	1 1/8"	8.00	150
2707491	SZ240A4MBI		347.8	60.50	Rotalock	2 1/4"	1 3/4"		

SM & SZ Compressor Rotalock Valve Selection Guide



Rotalock Size	1 1/4"	1 3/4"		2 1/4"	
Connection ODS	3/4"	7/8"	1 1/8"	1 3/8"	1 5/8"
Valve Cat. No.	2712255	2712258	2712259	2712248	2712262
Seal Cat. No.	2712265	2712266	2712266	2712267	2712267
SM115	D		S		
SM125	D		S		
SM160		D		S	
SM175		D		S	
SM185		D		S	
SZ115	D		S		
SZ125	D		S		
SZ160		D		S	
SZ175		D		S	
SZ185		D		S	
SZ240			D		S

Semi-Hermetic Compressors



Tecumseh



SH Series

The Tecumseh SH series of semi-hermetic compressors are designed for HFC refrigerants.

Cat. No.	Model No.	No of Cyl	Volts Phase	Nom HP	Displ. m ³ /hr	Connections		Oil Charge: l	MOC: Amps	Locked Rotor: Amps	Weight: kg	Dimensions: mm			Bolt Holes	CCH: W	Rubber Mount: mm
						Suct.	Disch.					L	W	H			
2750468	SH4526ZYZ	2	415/3/ DOL	1.5	6.91	5/8"	1/2"	1.0	4.5	20.6	36	317	237	275	234 x 194	50	30 x 30
2750469	SH4536ZYZ			2	9.88	3/4"	5/8"		6.7	35.9	40	334		292			
2750470	SH4550ZYZ			3	13.15	7/8"		1.1	8.8	43.7	49	369	294				
2712828	SH4564ZYZ			4	16.40	1 1/8"		1.2	12.5	52.0	51	374	242	317			
2707557	SH4576ZYZ	5	21.18	11.6	63.1		79		449	315	286	312 x 246					
2707558	SH4591ZYZ	5	24.69	7/8"	12.7								63.1				
2707559	SH4610ZYZ	7	28.02	1 3/8"	1 1/8"	17.6		87.3									
2707560	SH4612ZYZ	7	32.66			20.0	87.3										
2707561	SH4615ZMZ	4	415/3/ PWS	12	41.20	1 5/8"	1 3/8"	2.9	22.4	59.1	120	550	405	405	292 x 266	70	50 x 50
2707562	SH4620ZMZ			15	51.50				32.4	74.8	126						
2712834	SH4623ZMZ			20	58.48	2 1/8"	1 3/8"	4.0	35.3	106.6	174	672	460	463	381 x 305		
2712835	SH4627ZMZ			25	70.77				43.5	118.3	184						
2712836	SH4632ZMZ			30	83.81	49.2			132.6	187							
2712838	SH4639ZMZ			35	102.90	61.0			144.5	207	743						

Semi-Hermetic Compressors

Tecumseh

SH Series

The Tecumseh SH series of semi-hermetic compressors are designed for HFC refrigerants.

Accessories



Cat. No.	Part No.	Description	Suits Model No.
2709952	7590200	Crankcase Heater	All SH Model
2708344	7590100	Capacity Control Kit	SH4576Z, SH4591Z, SH4610Z, SH4612Z
2708345	7590101	Capacity Control Kit	SH4615Z, SH4620Z
2708346	7590102	Unloaded Start Kit	SH4576Z, SH4591Z, SH4610Z, SH4612Z
2708347	7590103	Unloaded Start Kit	SH4615Z, SH4620Z
2711058	7590206	Head Cooling Fan Assembly	SH4576Z, SH4591Z, SH4610Z, SH4612Z
2711059	7590207	Head Cooling Fan Assembly	SH4615Z, SH4620Z

Spare Parts



Cat. No.	Part No.	Description	Suits Model No.
2708332	7380740	Gasket Kit	SH4576Z, SH4610Z
2708333	7380741	Gasket Kit	SH4591Z, SH4612Z
2708334	7380742	Gasket Kit	SH4615Z
2708335	7380743	Gasket Kit	SH4620Z
2708336	72701749	Valve Plate Kit	SH4576Z, SH4610Z
2708337	7309101	Valve Plate Kit	SH4591Z
2708338	72710907	Valve Plate Kit	SH4612Z
2708339	72710908	Valve Plate Kit	SH4615Z
2708340	72710909	Valve Plate Kit	SH4620Z
2708341	7380710	Oil Sight Glass Kit	All SH Model
2708342	7590204	Kriwan Motor Protection Module	All SH Model
1609597	72710921	Compressor Mount Rubber Kit of 4	SH4576Z, SH4591Z, SH4610Z, SH4612Z
1609598	72710922	Compressor Mount Rubber Kit of 4	SH4615Z, SH4620Z
2708354	7590202	Electrical Connections Plate Kit	SH4576Z, SH4591Z, SH4610Z, SH4612Z
2708355	7590203	Electrical Connections Plate Kit	SH4615Z, SH4620Z

Semi-Hermetic Compressors



Bitzer



Ecoline Series 3 Phase 415V 50Hz

Inclusions: Compressor accessible hermetic (internal motor), oil charge BSE-32 ester oil, 1 x suction and 1 x discharge shut off valves, 4 x vibration dampers, built in thermistor (motor temperature sensors complete with electronic control unit), terminal box enclosure class IP65, and crankcase heater fitted as standard. Integrated varicool option.

All cylinder models supplied with one cylinder head ready for capacity control solenoid valve and coil.

Cat. No.	Part No.	Model No.	Series	No of Cyls.	Elect. Supply Volts / Phase	Nom. HP	Displ. m ³ /hr	Connections		Oil Charge: l	Current: Amps Maximum Operating	Weight kg	Dimensions: mm			Optional Capacity Control
								Suct.	Disch.				L	W	H	
2707624	J04-336	2KES-05Y	CE1	2	415/3	0.5	4.06	5/8"	1/2"	1.0	2.8	43	343	220	273	N
2707625	J04-337	2JES-07Y	CE1	2	415/3	0.7	5.21	5/8"	1/2"	1.0	3.7	43	343	220	273	N
2707626	J04-338	2HES-1Y	CE1	2	415/3	1	6.51	5/8"	1/2"	1.0	3.8	44	343	220	273	N
2707627	J04-339	2HES-2Y	CE1	2	415/3	2	6.51	5/8"	1/2"	1.0	4.5	45	343	220	273	N
2707628	J04-340	2GES-2Y	CE1	2	415/3	2	7.58	5/8"	1/2"	1.0	5.0	45	343	220	273	N
2707629	J04-347	2FES-2Y	CE1	2	415/3	2	9.54	5/8"	1/2"	1.0	5.3	45	343	220	273	N
2707630	J04-348	2FES-3Y	CE1	2	415/3	3	9.54	5/8"	1/2"	1.0	6.1	47	343	220	273	N
2707631	J04-341	2EES-2Y	CE2	2	415/3	2	11.4	7/8"	5/8"	1.5	6.0	68	398	259	307	N
2707632	J04-342	2EES-3Y	CE2	2	415/3	3	11.4	7/8"	5/8"	1.5	7.5	71	398	259	307	N
2707633	J04-343	2DES-2Y	CE2	2	415/3	2	13.4	7/8"	5/8"	1.5	7.5	68	398	259	307	N
2707635	J04-344	2DES-3Y	CE2	2	415/3	3	13.4	7/8"	5/8"	1.5	8.6	71	398	259	307	N
2707636	J04-345	2CES-3Y	CE2	2	415/3	3	16.2	7/8"	5/8"	1.5	9.1	70	398	259	307	N
2707637	J04-346	2CES-4Y	CE2	2	415/3	4	16.2	7/8"	5/8"	1.5	10.0	70	398	259	307	N
2707638	J04-351	4FES-3Y	CE3	4	415/3	3	18.1	7/8"	5/8"	2.0	9.5	82	432	309	347	50%
2707639	J04-352	4FES-5Y	CE3	4	415/3	5	18.1	7/8"	5/8"	2.0	10.8	86	432	309	347	50%
2707640	J04-353	4EES-4Y	CE3	4	415/3	4	22.7	1 1/8"	5/8"	2.0	12.2	84	432	309	352	50%
2707641	J04-354	4EES-6Y	CE3	4	415/3	6	22.7	1 1/8"	5/8"	2.0	13.6	86	432	309	352	50%
2707642	J04-355	4DES-5Y	CE3	4	415/3	5	26.8	1 1/8"	7/8"	2.0	14.5	86	432	309	352	50%
2707643	J04-356	4DES-7Y	CE3	4	415/3	7	26.8	1 1/8"	7/8"	2.0	16.5	89	457	309	352	50%
2707644	J04-357	4CES-6Y	CE3	4	415/3	6	32.5	1 1/8"	7/8"	2.0	17.7	91	457	309	352	50%
2707645	J04-358	4CES-9Y	CE3	4	415/3	9	32.5	1 1/8"	7/8"	2.0	20.2	91	457	309	352	50%

Ecoline Series Single Phase 240V 50Hz

Inclusions: Compressor accessible hermetic (internal motor), oil charge BSE-32 ester oil, 1 x suction and 1 x discharge shut off valves, 4 x vibration dampers, built in thermistor (motor temperature sensors complete with electronic control unit), 1 x start relay, start & run capacitors, terminal box enclosure Class IP65, and crankcase heater fitted as standard. Integrated varicool option.

Cat. No.	Part No.	Model No.	Series	No of Cyls.	Elect. Supply Volts / Phase
2707646	J04-461	2HES-2YE	CE1	2	240/1
2707647	J04-462	2GES-2YE	CE1	2	240/1
2707648	J04-463	2FES-2YE	CE1	2	240/1

Accessories

Cat. No.	Part No.	Description	Suits Series
2708322	347019-01	Motor Protection Device SE-B1 (Replaces INT69VS7-11)	
2708326	347023-03	Discharge Gas Temperature Control Device (sensor)	
2709475	347600-47	Capacity Control Solenoid Valve Assembly	
2708331	343309-01	Capacity Control Solenoid Coil Only 240 Volt 50 Hz	
2711051	343021-01	Cooling Fan Assembly	CE1
2711052	343021-26		CE2
2711053	343021-29		CE3



Semi-Hermetic Compressors

Bitzer

Ecoline Series 3 Phase 415V 50Hz - Motor version 1 & motor version 2

Inclusions: Compressor accessible hermetic (internal motor), oil charge BSE-32 ester oil, 1 x suction and 1 x discharge shut off valve, 4 x vibration dampers, built in thermistor (motor temperature sensors complete with electronic control unit), terminal box enclosure class IP65, and crankcase heater fitted as standard.

All cylinder models supplied with one cylinder head ready for capacity control solenoid valve and coil.

Cat. No.	Part No.	Model No.	Series	No of Cyls.	Elect. Supply Volts / Phase	Nom. HP	Displ. m ³ /hr	Connections		Oil Charge: l	Current: Amps	Weight kg	Dimensions: mm			Optional Capacity Control
								Suct.	Disch.		Maximum Operating		L	W	H	
2707649	J04-366	4VES-7Y	CE4	4	415/3	7	34.7	1 1/8"	7/8"	2.6	16.6	129	633	303	385	50%
2707650	J04-361	4VES-10Y	CE4	4	415/3	10	34.7	1 1/8"	7/8"	2.6	19.9	139	633	303	385	50%
2707651	J04-367	4TES-9Y	CE4	4	415/3	9	41.3	1 3/8"	1 1/8"	2.6	19.9	134	633	303	385	50%
2707652	J04-362	4TES-12Y	CE4	4	415/3	12	41.3	1 3/8"	1 1/8"	2.6	25.1	141	633	303	385	50%
2707653	J04-368	4PES-12Y	CE4	4	415/3	12	48.5	1 3/8"	1 1/8"	2.6	22.7	139	633	303	385	50%
2707654	J04-364	4PES-15Y	CE4	4	415/3	15	48.5	1 5/8"	1 1/8"	2.6	28.2	147	658	303	385	50%
2707655	J04-369	4NES-14Y	CE4	4	415/3	14	56.2	1 3/8"	1 1/8"	2.6	26.6	141	633	303	385	50%
2707656	J04-365	4NES-20Y	CE4	4	415/3	20	56.2	1 5/8"	1 1/8"	2.6	33.2	150	658	303	385	50%

Ecoline Series 3 Phase 415V 50Hz – R134a small motor

Inclusions: Compressor accessible hermetic (internal motor), oil charge BSE-32 ester oil, 1 x suction and 1 x discharge shut off valves, 4 x vibration dampers, built in thermistor (motor temperature sensors complete with electronic control unit), terminal box enclosure class IP65, and crankcase heater fitted as standard.

All cylinder models supplied with one cylinder head ready for capacity control solenoid valve and coil.

Cat. No.	Part No.	Model No.	Series	No of Cyls.	Elect. Supply Volts / Phase	Nom. HP	Displ. m ³ /hr	Connections		Oil Charge: l	Current: Amps	Weight kg	Dimensions: mm			Optional Capacity Control
								Suct.	Disch.		Maximum Operating		L	W	H	
2707657	J04-322	4VES-6Y	CE4	4	415/3	6	34.7	1 1/8"	7/8"	2.6	9.4	129	633	303	385	50%
2707658	J04-323	4TES-8Y	CE4	4	415/3	8	41.3	1 3/8"	1 1/8"	2.6	11.4	134	633	303	385	50%
2707659	J04-324	4PES-10Y	CE4	4	415/3	10	48.5	1 3/8"	1 1/8"	2.6	12.9	139	633	303	385	50%
2707660	J04-325	4NES-12Y	CE4	4	415/3	12	56.2	1 3/8"	1 1/8"	2.6	14.9	141	633	303	385	50%

Accessories

Cat. No.	Part No.	Description
2708322	347019-01	Motor Protection Device SE-B1 (Replaces INT69VS7-11)
2707879	347334-03	OLC-K1 Electronic Oil Monitoring Control
2708326	347023-03	Discharge Gas Temperature Control Device (sensor)
2709475	347600-47	Capacity Control Solenoid Valve Assembly
2708331	343309-01	Capacity Control Solenoid Coil Only 240 Volt 50 Hz
2708328	302355-53	Capacity Control Head - Complete
2711054	343021-27	Cooling Fan Assembly
	347051-01	Protection Device Kit and Harness (CM-RC-01)

Semi-Hermetic Compressors



Bitzer

Ecoline Series 3 Phase 415V 50Hz - motor version 1 & 2

Inclusions: Compressor accessible hermetic (internal motor), oil charge BSE-32 ester oil, 1 x suction and 1 x discharge shut off valve, 4 x vibration dampers, built in thermistor (motor temperature sensors complete with electronic control unit), terminal box enclosure class IP65, crankcase heater fitted, oil pressure switch MP54, differential pressure relief valve, part winding and oil pump as standard. All 4 and 6 cylinder models supplied with one cylinder head ready for capacity control solenoid valve and coil.

Cat. No.	Part No.	Model No.	Series	No of Cyls.	Elect. Supply Volts / Phase	Nom. HP	Displ. m ³ /hr	Connections		Oil Charge: l	Current: Amps	Weight kg	Dimensions: mm			Optional Capacity Control
								Suct.	Disch.		Maximum Operating		L	W	H	
2707661	J04-371	4JE-15Y	BE5	4	415/3	15	63.5	1 5/8"	1 1/8"	4.0	30.8	190	688	456	452	50%
2707662	J04-372	4JE-22Y	BE5	4	415/3	22	63.5	1 5/8"	1 1/8"	4.0	37.2	190	688	456	452	50%
2707663	J04-373	4HE-18Y	BE5	4	415/3	18	73.7	1 5/8"	1 1/8"	4.0	36.7	190	688	456	452	50%
2707664	J04-374	4HE-25Y	BE5	4	415/3	25	73.7	2 1/8"	1 1/8"	4.0	44.0	194	737	456	452	50%
2707665	J04-375	4GE-23Y	BE5	4	415/3	23	84.6	2 1/8"	1 1/8"	4.5	43.9	192	706	456	452	50%
2707666	J04-376	4GE-30Y	BE5	4	415/3	30	84.6	2 1/8"	1 1/8"	4.5	51.2	206	737	456	452	50%
2707668	J04-377	4FE-28Y	BE5	4	415/3	28	101.8	2 1/8"	1 1/8"	4.5	52.8	207	737	456	452	50%
2707669	J04-335	4FE-35Y	BE5	4	415/3	35	101.8	2 1/8"	1 1/8"	4.5	62.1	207	737	456	452	50%
2707670	J04-381	6JE-25Y	BE6	6	415/3	25	95.3	2 1/8"	1 3/8"	4.75	46.4	228	766	503	447	33% or 66%
2707671	J04-382	6JE-33Y	BE6	6	415/3	33	95.3	2 1/8"	1 3/8"	4.75	53.2	231	797	503	447	33% or 66%
2707672	J04-383	6HE-28Y	BE6	6	415/3	28	110.5	2 1/8"	1 3/8"	4.75	53.2	228	766	503	447	33% or 66%
2707673	J04-384	6HE-35Y	BE6	6	415/3	35	110.5	2 1/8"	1 3/8"	4.75	64.4	235	797	503	447	33% or 66%
2707674	J04-385	6GE-34Y	BE6	6	415/3	34	126.8	2 1/8"	1 3/8"	4.75	65.5	228	766	503	447	33% or 66%
2707675	J04-386	6GE-40Y	BE6	6	415/3	40	126.8	2 1/8"	1 3/8"	4.75	73.9	238	797	503	447	33% or 66%
2707676	J04-387	6FE-44Y	BE6	6	415/3	44	151.6	2 1/8"	1 5/8"	4.75	83.2	241	790	503	447	33% or 66%
2707677	J04-334	6FE-50Y	BE6	6	415/3	50	151.6	2 1/8"	1 5/8"	4.75	96.2	241	790	503	447	33% or 66%

Ecoline Series 3 Phase 415V 50Hz - motor version 3

Inclusions: Compressor accessible hermetic (internal motor), oil charge BSE-32 ester oil, 1 x suction and 1 x discharge shut off valves, 4 x vibration dampers, built in thermistor (motor temperature sensors complete with electronic control unit), terminal box enclosure class IP65, crankcase heater fitted, differential pressure relief valve, part winding, oil pump and Delta PII oil pressure switch as standard.

All 4 and 6 cylinder models supplied with one cylinder head ready for capacity control solenoid valve and coil.

Cat. No.	Part No.	Model No.	Series	No of Cyls.	Elect. Supply Volts / Phase	Nom. HP	Displ. m ³ /hr	Connections		Oil Charge: l	Current: Amps	Weight kg	Dimensions: mm			Optional Capacity Control
								Suct.	Disch.		Maximum Operating		L	W	H	
2707679	J04-326	4JE-13Y	BE5	4	415/3	13	63.5	1 5/8"	1 1/8"	4.0	18.8	179	688	456	452	50%
2707680	J04-327	4HE-15Y	BE5	4	415/3	15	73.7	1 5/8"	1 1/8"	4.0	21.4	183	688	456	452	50%
2707681	J04-328	4GE-20Y	BE5	4	415/3	20	84.6	2 1/8"	1 1/8"	4.5	24.6	192	706	456	452	50%
2707682	J04-329	4FE-25Y	BE5	4	415/3	25	101.8	2 1/8"	1 1/8"	4.5	30.5	196	737	456	452	50%
2707683	J04-330	6JE-22Y	BE6	6	415/3	22	95.3	2 1/8"	1 3/8"	4.75	26.6	213	766	503	447	33% or 66%
2707684	J04-331	6HE-25Y	BE6	6	415/3	25	110.5	2 1/8"	1 3/8"	4.75	31.3	224	766	503	447	33% or 66%
2707685	J04-332	6GE-30Y	BE6	6	415/3	30	126.8	2 1/8"	1 3/8"	4.75	38.0	228	766	503	447	33% or 66%
2707686	J04-333	6FE-40Y	BE6	6	415/3	40	151.6	2 1/8"	1 5/8"	4.75	48.5	238	790	503	447	33% or 66%

Accessories

Cat. No.	Part No.	Description	Suits Series
2708322	347019-01	Motor Protection Device	SE-B1 (Replaces INT69VS7-11)
2708325	347028-01	Motor Protection Device	SE-B2 (Replaces INT69VS)
2707877	347319-11	Delta PII Oil Pressure Switch	
2708326	347023-03	Discharge Gas Temperature Control Device (sensor)	
2709475	347600-01	Capacity Control Solenoid Valve Assembly	4VES-4NES
2708327	347600-03	Capacity Control Solenoid Valve Assembly	4JE-6FE
2708331	343309-02	Capacity Control Solenoid Coil Only 240 Volt 50 Hz	
2708328	302355-12	Capacity Control Head - Complete	4VES-4NES
2708329	302355-20	Capacity Control Head - Complete	4JE-6FE
2711056	343021-04	Cooling Fan Assembly	4JE-4FE
2711057	343021-05	Cooling Fan Assembly	6JE-6FE

Ecoline Series 3 Phase 415V 50Hz – Industrial Compressors

Inclusions: Compressor accessible hermetic (internal motor), oil charge BSE-32 ester oil, 1 x suction and 1 x discharge shut off valves, 4 x vibration dampers, built in thermistor (motor temperature sensors complete with electronic control unit), terminal box enclosure class IP54, crankcase heater fitted, differential pressure relief valve, part Winding and oil pump as standard. All 8 cylinder models supplied with two cylinder heads with built in pulsation mufflers and two cylinder heads ready for capacity control solenoid valve and coil.

Cat. No.	Part No.	Model No.	Series	No of Cyls.	Elect. Supply Volts / Phase	Nom. HP	Displ. m ³ /hr	Connections		Oil Charge: l	Current: Amps	Weight kg	Dimensions: mm			Optional Capacity Control
								Suct.	Disch.		Maximum Operating		L	W	H	
2707687	J04-391	8GE-60Y	CE8	8	415/3	60	185	3 1/8"	1 5/8"	5.0	113.0	350	886	485	538	50% or 75%
2707688	J04-392	8FE-70Y	CE8	8	415/3	70	221	3 1/8"	2 1/8"	5.0	139.0	374	902	485	538	50% or 75%

Semi-Hermetic Compressors

Copeland®

DWM Copeland

Standard series



The Copeland standard K, L and S-series compressors have a range from 0.5 to 70hp for use with R404A, R507, R407C, R134a and R22 refrigerants, offering broad application flexibility. Compressors are charged with Polyolester oil and are supplied with an internal oil pump, shut off valves and mounting kits along with non-active capacity control on 4, 6 & 8 cylinder models. Separate accessories include oil switches, crankcase heaters, capacity control kits, head cooling fans and single phase electrics kits.

Cat. No.	Model No.	No of Cyls.	Elect. Supply Volts / Phase	Nom. HP	Displ. m³/hr	Connections		Oil Charge: l	Current - Amps		Weight kg	Dimensions mm				Optional Capacity Control	Oil Switch Req.					
						Suct.	Disch.		Max. Operating	Locked Rotor		L	W	H	Bolt Holes							
K Series																						
2709625	DKJP-10X-CAG	2	240/1	1	5.1	5 ⁵ / ₈ "	1 ¹ / ₂ "	0.7	7.1	32.4	41	365	235	280	208 x 162	N/A	N					
2709626	DKJP-10X-EWL		415/3		3.2				15.5													
2709627	DKSJP-10X-CAG		240/1	1.5	6.3				6.7	32.4	42											
2709628	DKSJP-15X-CAG								9.0	43.0												
2709629	DKSJP-15X-EWL		415/3	7.4	3.4				20.4	41												
2709630	DKLP-15X-CAG		240/1		8.4				43.0													
2709631	DKLP-15X-EWL		415/3	2	9.1				3.4	20.4	42											
2709632	DKSLP-20X-EWL								4.7	20.4												
L Series																						
2709640	DLEP-20X-EWL	2	415/3	2	9.9	7 ⁷ / ₈ "	5 ⁵ / ₈ "	2.0	5.7	37.6	84	470	330	385	295 x 279	N/A	N					
2709633	DLFP-20X-EWL				12.9				4.5		86											
2709641	DLFP-30X-EWL			3	1 1 ¹ / ₈ "				7.2	53.0	91											
2709634	DLLP-30X-EWL			4					18.2	9.5	68.5							93				
2709642	DLLP-40X-EWL				22.5				8.9	82												
2709635	DLSGP-40X-EWL																					
S Series																						
2709636	D2SA-45X-EWL	2	415/3	4.5	22.4	1 1 ¹ / ₈ "	7 ⁷ / ₈ "	2.4	11.4	68.5	95	560	330	395	295 x 279	N/A	Y					
2709643	D2SA-55X-EWL			5.5	26.8				13.1	67.3								96				
2709637	D2SC-55X-EWL			6.5	26.9				16.2	85.3	97											
2709644	D2SC-65X-EWL				31.2				16.4													
2709638	D2SK-65X-EWL																					
2709639	D3SA-75X-AWM	3		7.5	32.2	1 3 ³ / ₈ "	1 1 ¹ / ₈ "	3.7	17.9	82.0	174	655	370	480	381 x 305							
2709645	D3SC-75X-AWM				38.0				18.7	106.0												
2709646	D3SC-100X-AWM			10	49.9				21.6	109.0	178											
2709647	D3SS-100X-AWM			15					26.0	125.0	177											
2709648	D3SS-150X-AWM								30.2													
2709650	D8SH-370X-AWM	8		37	151.0	2 5 ⁵ / ₈ "	1 5 ⁵ / ₈ "	7.7	70.9	365.0	335	835	475	610	457 x 305	25%						
2709651	D8SH-500X-AWM			50	90.8				458.0	347	625		590			25% or 50%						
2709652	D8SJ-450X-AWM			45												3 1 ¹ / ₈ "		102.0	500.0	366	670	25%
2709653	D8SJ-600X-AWM			60																		127.0
2709654	D8SK-700X-AWM			70												210.0						

Standard ordering package

- Compressor
- Oil Switch
- Crankcase Heater
- Electrics Kit (single phase only)

Actrol Sales & Application Engineers are able to provide selection advice for replacement applications.

Semi-Hermetic Compressors



DWM Copeland

Discus series



The Copeland Discus series of compressors incorporate the double walled Discus valve plate. The special design of the valve disk reduces clearance volume and may provide a considerable increase in performance, particularly in the low temperature range. The Discus series have a range from 0.5 to 70hp for use with R404A, R507, R407C, R134a and R22 refrigerants, offering broad application flexibility. Compressors are charged with Polyolester oil and are supplied with an internal oil pump, shut off valves and mounting kits along with non-active capacity control on 4, 6 & 8 cylinder models. Separate accessories include oil switches, crankcase heaters, capacity control kits and head cooling fans.

Cat. No.	Model No.	No of Cyls.	Elect. Supply Volts / Phase	Nom. HP	Displ. m ³ /hr	Connections		Oil Charge: l	Current - Amps		Weight kg	Dimensions mm				Opt. Capacity Cont.	Oil Switch Req.
						Suct.	Disch.		Max. Operating	Locked Rotor		L	W	H	Bolt Holes		
2709722	D2DD-050X-AWM	2	415/3	5	19.3	1 3/8"	7/8"	2.3	10.3	55.0	141	590	330	470	295 x 279	N/A	Y
2709723	D2DL-040X-AWM			4	23.7		10.0		140								
2709724	D2DL-075X-AWM			7.5	1 1/8"		13.0		70.0	145							
2709725	D2DB-050X-AWM			5	28.0		7/8"		11.5	55.0	140						
2709726	D2DB-075X-AWM			7.5			1 1/8"		15.4	70.0	145						
2709727	D3DA5-050X-AWM	3		5	32.2	1 1/8"	7/8"	3.7	12.0	55.0	157	655	370	480	381 x 305		
2709728	D3DA5-075X-AWM			7.5	38.0		17.5		106.0	163	680						
2709729	D3DC5-075X-AWM			10			14.0		70.0	161	655						
2709730	D3DC5-100X-AWM			49.9	1 5/8"		20.5		121.0	175	680						
2709731	D3DS5-100X-AWM						19.5			173							
2709732	D3DS5-150X-AWM			15	29.0		129.0		178	710	490						
2709733	D8DL-370X-AWM	8		37	151.0	2 5/8"	1 5/8"	7.7	58.5	365.0	344	835	475	850	457 x 305	25%	
2709734	D8DT-450X-AWM			45	181.0	3 1/8"			69.0	458.0	356						
2709735	D8DH-500X-AWM			50	151.0	2 5/8"			88.2	351	590		670	25% or 50%			
2709736	D8DJ-600X-AWM			60	181.0	3 1/8"			104.0	500.0					352		

Standard ordering package

- Compressor
- Oil Switch
- Crankcase Heater
- Electrics Kit (single phase only)

Actrol Sales & Application Engineers are able to provide selection advice for replacement applications.

Semi-Hermetic Compressors

DWM Copeland

Accessories - Oil Pressure Switches

The monitoring of the force feed lubrication system with an oil pressure control is compulsory for Discus and S – Series compressors.



Cat. No.	Part No.	Description	Suits Model
2707883	3164918	OPS2 Oil Pressure Switch	All Copeland Semi-Hermetic Compressors with Oil Pumps
2707884	3168329	OPS2 Oil Pressure Switch and Sensor Kit	

Crankcase Heaters

In many cases it is necessary to heat the crankcase to avoid excessive refrigerant dissolving in the oil during standstill.

Cat. No.	Part No.	Description	Watts	Suits Model
2709656	2948773	Internal Crankcase Heater	27	DK
2709657	2834369		70	DL,DLHA,D2S
2709658	2834198			D2D, D3S, D3D
2709659	6610169		100	D4S, D6SA, D6SF, D6SH, D6SL, D4D, D6DH, D6DL
2709660	2832205		200	D6ST, D6SJ, D6SK, D6SU, D6DJ, D6DT, D8S, D8D

Single Phase Electrics Kits

It is mandatory to fit new electrics kits when installing new single phase compressors.

Cat. No.	Part No.	Description	Suits Model
2711136	2972030	Single Phase Electrics Kit	DKJ, DKSJ10X
2711137	3165080		DKSJ15X, DKL15X

Capacity Control

Capacity control kits consist of a solenoid valve which is fitted to suitable cylinder heads on 4, 6 & 8 cylinder compressors which provides capacity control and “unloaded” starts.



Cat. No.	Part No.	Description	Suits Model
2708301	2835339	Capacity Control Kit Includes 1 each of Solenoid Valve, Coil & Gasket	All Copeland Semi-Hermetic with Capacity Control Heads Fitted
2711311	ASC2	Replacement Solenoid Coil	

Head Cooling Fans

Head cooling fans are used to provide additional cooling.

Cat. No.	Part No.	Description	Suits Model
2711000	2998245	Head Cooling Fan Less Brackets	
2711001	3117229	Head Cooling Fan Bracket Kit	D2S
	2988119		D2D
2711002	2988095		D3S, D3D
2711003	2986260		D4S
	2986248		D4D
2711004	2987616		D6SA, D6SF, D6SH, D6SL, D6ST
	2830710		D6SJ
	2987638		D6D
2711005	2986282		D8SH
	2986293		D8SJ, D8SK
	2987649		D8D

Motor Protection Module

Cat. No.	Part No.	Description	Suits
2711134	3199825	INT69-2 Motor Protection Module	Semi-hermetic compressors, DK, DL, D2, D3, D9 series
2711135	3133638		Semi-hermetic compressors, D4, D6, D8 series

Semi-Hermetic Compressors



Copeland

Stream Series

The Stream semi-hermetic compressor range comprises innovations such as multi refrigerant capability and CoreSense Diagnostics for advanced protection and preventive maintenance. The standard stream range is suitable for applications using inverter technology for capacity modulation. Sound shell technology makes Stream the quietest compressor on the market for sound critical applications.



Features

- Motor Temp Protection
- Oil Protection
- Missing Phase or Single Phasing Protection
- Low Voltage Protection
- Voltage Imbalance Protection
- Discharge Temperature Protection
- Locked Rotor Protection
- Compressor Power Consumption Measurement
- Modbus® Communication to system controller
- Compressor Asset & Runtime information
- Failure Alarm History
- Status LEDs to indicate the warning, trip and lockout alarms
- Crank Case Heater Control

Cat. No.	Model No.	No of Cyls	Elect. Supply: Volts / Phase	Nom. HP	Displ: m ³ /h	Nominal Capacity: kW			Weight: kg	Footprint: mm
						Med Temp R404A	Med Temp R134a	Low Temp R404A		
2709737	4MF1-13X-AWMD/D	4	415/3	13	62	33,4	18,2	11,4	177	381 x 305
2709738	4MA1-22X-AWMD/D	4	415/3	22	62	33,6	19,1	10,8	178	381 x 305
2709739	4ML1-15X-AWMD/D	4	415/3	15	71	38,7	22,1	13,2	180	381 x 305
2709740	4MH1-25X-AWMD/D	4	415/3	25	71	38,8	21,4	12,5	187	381 x 305
2709741	4MM1-20X-AWMD/D	4	415/3	20	78	42,6	24,7	14,7	182	381 x 305
2709742	4MI1-30X-AWMD/D	4	415/3	30	78	42,8	23,9	13,9	188	381 x 305
2709743	4MT1-22X-AWMD/D	4	415/3	22	88	47,8	27,7	16,5	183	381 x 305
2709744	4MJ1-33X-AWMD/D	4	415/3	33	88	48,0	26,8	16,0	190	381 x 305
2709745	4MU1-25X-AWMD/D	4	415/3	25	99	54,2	31,2	18,7	186	381 x 305
2709746	4MK1-35X-AWMD/D	4	415/3	35	99	54,4	30,1	17,7	202	381 x 305
2709747	6MM1-30X-AWMD/D	6	415/3	30	120	61,8	36,9	21,6	215	381 x 305
2709748	6MI1-40X-AWMD/D	6	415/3	40	120	64,2	35,3	20,3	219	381 x 305
2709749	6MT1-35X-AWMD/D	6	415/3	35	135	70,4	41,3	25,1	221	381 x 305
2709750	6MJ1-45X-AWMD/D	6	415/3	45	135	72,4	40,4	23,6	223	381 x 305
2709751	6MU1-40X-AWMD/D	6	415/3	40	153	79,8	46,3	28,4	225	381 x 305
2709752	6MK1-50X-AWMD/D	6	415/3	50	153	82,1	45,3	26,6	230	381 x 305

Open Drive Compressors

Bitzer



Belt Driven Nos. 1 to 6

Inclusions: Compressor open drive belt driven, 1 x flywheel, oil charge B5 oil, 1 x suction and 1 x discharge shut off valves.

Cat. No.	Part No.	Model No.	Flywheel Incl.
2708184	J02-003	No 1	Y
2708185	J02-004	No 2	Y
2708186	J02-005	No 3	Y
2708187	J02-006	No 4	Y
2708188	J02-007	No 5	Y
2708189	J02-008	No 6	Y



Belt Driven Nos. 2T.2 to 6F.2

Inclusions: Compressor open drive belt driven, 1 x flywheel, oil charge B5 oil, 1 x suction and 1 x discharge shut off valves, crankcase heater, oil pressure switch MP54.

Note: Model No. 6F.2 is direct drive only – flywheel is not included

Cat. No.	Part No.	Model No.	Flywheel Incl.
2708190	J02-002	2T.2S	Y
2708191	J02-001	2N.2S	Y
2708192	J03-005	4T.2S	Y
2708193	J03-004	4P.2S	Y
2708194	J03-003	4N.2S	Y
2708195	J03-002	4H.2S	Y
2708196	J03-001	4G.2S	Y
2708197	J03-008	6H.2S	Y
2708198	J03-007	6G.2S	Y
2708199	J03-006	6F.2	N



Receiver Units



Copeland

HLR Series Digital Receiver Units

Flexibility for Optimum Building Integration



HLR Digital Receiver Units combine the concepts of remote condenser and digital modulation for maximized installation flexibility:

- Remote condensers can be selected to meet environmental constraints related to space, noise and energy efficiency
- Copeland Scroll Digital™ technology offers continuous capacity modulation for precise temperature control

The Digital Receiver Unit can be combined with various condenser solutions:

- Condenser outdoor installation reducing indoor noise levels and maximizing indoor vending space
- Selection of low speed and low noise condenser fans to comply with outdoor noise regulations
- Generous condenser sizing for high system efficiency
- Use of water cooled condensers



The latest Copeland Scroll Digital™ compressor technology offers significantly higher efficiency than traditional piston compressors in the target application. Digital Scroll™ continuous capacity modulation optimises system operation under varying load conditions. The resulting precise suction pressure control raises overall system efficiency.

Simple System Design and Installation

HLR Digital Receiver Units are fully equipped for quick installation and maintenance, saving time and costs.

The units include:

- Crank case heater
- HP/LP Switch
- Liquid line with filter drier and sight glass
- Oil separator on tandem compressor units
- Electrical box with overload protection, contactor and fuse
- EC2-552 controller with TCP/IP network interface, continuous suction pressure control and continuous condensing pressure control

The wide Digital Scroll™ continuous capacity modulation range, single compressor units 10%-100% and tandem compressor units 5%-100%, avoids the need for multiple condensing units, keeping overall system design simple.

Single Compressor Units

Cat. No.	Model No.	Elect. Supply Volts / Phase	Nom. HP	R404A Cap: kW		Connections				Dimensions: mm			Rec. Vol: l	Weight: kg
				-25°C	-5°C	Suct.	Dis.	Rec. Inlet	Rec. Outlet	Height	Depth	Width		
2707530	HLR-13-ZBD30KCE-TFD	380-420/3	4	3.36	8.37	7/8"	5/8"	5/8"	5/8"	710	400	690	13	72
2707531	HLR-13-ZBD45KCE-TFD		6	4.49	12.45	7/8"	5/8"	5/8"	5/8"	710	400	690	13	75
2707532	HLR-13-ZBD58KCE-TFD		7.5	5.37	16.25	1 1/8"	3/4"	5/8"	5/8"	710	400	725	13	84
2707533	HLR-13-ZBD76KCE-TFD		10	8.05	21.04	1 3/8"	3/4"	5/8"	5/8"	710	400	725	13	90

Tandem Compressor Units

Cat. No.	Model No.	Elect. Supply Volts / Phase	Nom. HP	R404A Cap: kW		Connections				Dimensions: mm			Rec. Vol: l	Weight: kg
				-25°C	-5°C	Suct.	Dis.	Rec. Inlet	Rec. Outlet	Height	Depth	Width		
2707534	HLR-31-ZBDT60KCE-TFD	380-420/3	8	6.76	16.85	1 3/8"	7/8"	5/8"	5/8"	910	480	970	31	130
2707535	HLR-31-ZBDT90KCE-TFD		12	9.22	24.05	1 3/8"	7/8"	5/8"	5/8"	910	480	970	31	138
2707536	HLR-31-ZBDT116KCE-TFD		15	10.06	32.04	1 5/8"	1 1/8"	7/8"	7/8"	870	480	970	31	165
2707537	HLR-31-ZBDT152KCE-TFD		20	16.15	42.09	1 5/8"	1 3/8"	7/8"	7/8"	870	480	970	31	175

Capacity data based on: -5°C Suction Gas Temperature, 45°C Saturated Condensing Temperature, 20°C Return Gas Temperature, 0K Subcooling

-25°C Suction Gas Temperature, 45°C Saturated Condensing Temperature, 10K Superheat, 0K Subcooling

Receiver Units

Bitzer

Reciprocating Accessible Remote Units

Bitzer remote units are supplied standard with the following inclusions:

Bitzer compressor, liquid receiver, dual pressure control with flexible lines mounted on a common frame assembly which is prepared for additional vessel mounting.



Cat. No.	Part No.	Model No.	Compressor Series
2709541	U07-045	2KES-05Y-R	CE1
2709542	U07-046	2JES-07Y-R	CE1
2709543	U07-037	2HES-1Y-R	CE1
2709544	U07-063	2HES-2Y-R	CE1
2709545	U07-038	2GES-2Y-R	CE1
2709546	U07-039	2FES-2Y-R	CE1
2709547	U07-064	2FES-3Y-R	CE1
2709548	U07-003	2EES-2Y-R	CE2
2709549	U07-041	2EES-3Y-R	CE2
2709550	U07-040	2DES-2Y-R	CE2
2709551	U07-002	2DES-3Y-R	CE2
2709552	U07-070	2CES-3Y-R	CE2
2709553	U07-071	2CES-4Y-R	CE2
2709554	U07-007	4FES-3Y-R	CE3
2709555	U07-008	4FES-5Y-R	CE3

Cat. No.	Part No.	Model No.	Compressor Series
2709556	U07-005	4EES-4Y-R	CE3
2709557	U07-006	4EES-6Y-R	CE3
2709558	U07-004	4DES-5Y-R	CE3
2709559	U07-049	4DES-7Y-R	CE3
2709560	U07-044	4CES-6Y-R	CE3
2709561	U07-043	4CES-9Y-R	CE3
2709562	U07-085	4VES-7Y-R	CE4
2709563	U07-086	4VES-10Y-R	CE4
2709564	U07-087	4TES-9Y-R	CE4
2709565	U07-088	4TES-12Y-R	CE4
2709566	U07-089	4PES-12Y-R	CE4
2709567	U07-090	4PES-15Y-R	CE4
2709568	U07-091	4NES-14Y-R	CE4
2709569	U07-092	4NES-20Y-R	CE4

Cat. No.	Part No.	Model No.	Compressor Series
2709570	U07-013	4JE-15Y-R	BE5
2709571	U07-014	4JE-22Y-R	BE5
2709572	U07-011	4HE-18Y-R	BE5
2709573	U07-012	4HE-25Y-R	BE5
2709574	U07-009	4GE-23Y-R	BE5
2709575	U07-010	4GE-30Y-R	BE5
2709576	U07-035	6JE-25Y-R	BE6

Cat. No.	Part No.	Model No.	Compressor Series
2709577	U07-036	6JE-33Y-R	BE6
2709578	U07-033	6HE-28Y-R	BE6
2709579	U07-034	6HE-35Y-R	BE6
2709580	U07-031	6GE-34Y-R	BE6
2709581	U07-032	6GE-40Y-R	BE6
2709582	U07-029	6FE-44Y-R	BE6
2709583	U07-030	6FE-50Y-R	BE6

Cat. No.	Part No.	Model No.	Compressor Series
2709584	U07-585	4VES-6Y-R	CE4
2709585	U07-587	4TES-8Y-R	CE4

Cat. No.	Part No.	Model No.	Compressor Series
2709586	U07-589	4PES-10Y-R	CE4
2709587	U07-591	4NES-12Y-R	CE4

Cat. No.	Part No.	Model No.	Compressor Series
2709588	U07-513	4JE-13Y-R	BE5
2709589	U07-511	4HE-15Y-R	BE5
2709590	U07-509	4GE-20Y-R	BE5
2709591	U07-535	6JE-22Y-R	BE6

Cat. No.	Part No.	Model No.	Compressor Series
2709592	U07-533	6HE-25Y-R	BE6
2709593	U07-531	6GE-30Y-R	BE6
2709594	U07-529	6FE-40Y-R	BE6

Actrol Sales & Application Engineers are available to provide selection advice.



Receiver Units

Bitzer

Reciprocating Accessible Remote Units

Accessories

Cat. No.	Part No.	Description	
2709481	B43-304	Suction Accumulator	5/8"
2709482	B43-300		7/8"
2709483	B43-301		1 1/8"
2710794	B43-305		1 3/8"
2710795	B43-302		1 5/8"
2709468	U51-009	Suction Accumulator Fitting Charge	
2708551	U40-001	Liquid Line Assembly Fitted	3/8"
2708552	U40-002		1/2"
2708553	U40-003		5/8"
2708554	U40-004		7/8"
2708555	U40-005		7/8"
2708556	U40-006		1 1/8"
2712183	U40-021	Liquid Line Ball Valve Fitted	3/8"
2712185	U40-023		5/8"
2712186	U40-024		7/8"
2712187	U40-025		1 1/8"
2712188	U40-026		1 3/8"
2709469	U40-040	Liquid Line Solenoid Valve Fitted	3/8"
2709470	U40-041		1/2"
2709471	U40-042		5/8"
2711115	U40-043		7/8"
2711118	U40-044		1 1/8"
2707426	U40-092	LP Control Auto Reset Fitted	
2707427	U40-093	HP Control Auto Reset Fitted	
2707428	U40-094	HP Control Manual Reset Fitted	
2707429	U40-090	HP Fan Cycling Control Fitted	
2707431	U40-091	Dual HP/LP Control Fan Cycling	
	S06-014	Unloader LP Control	
2709480	B37-007	Oil Separator Internal Float	5/8"
2709484	B37-008		7/8"
2710766	B37-009		1 1/8"
2710767	B37-010		1 3/8"
2710768	B37-011	Oil Separator with Reservoir	7/8" & 1 1/8"
	B36-052	COS1 Centrifugal Oil Separator with Reservoir	
	B36-053	COS2 Centrifugal Oil Separator with Reservoir	
2710760	U51-008	Oil Separator Fitting Charge	
2709474	U40-097	Traxon Oil Level Control Fitted (Octagon Compressor)	
2710772	U40-097E	Traxon Oil Level Control Fitted with Transformer & Wiring	
2709477	U40-099	Traxon Oil Level Control Fitted (C4 & B5 Compressors)	
2710771	U40-099E	Traxon Oil Level Control Fitted with Transformer & Wiring	
2710769	U40-098	Traxon Oil Level Monitoring Digital c/w Transformer Fitted	
2710770	U40-098E	Traxon Oil Level Monitoring c/w Transformer & Wiring Fitted	
2707879	347334-03	OLC-K1 Oil Level Control	
	U40-111	Gauge Panel 1 x Suction, 1 x Discharge, 2 x Oil with Post Valves	

HVAC Units



Bitzer

ComMECH Series - Screw Compressor Packages



The Bitzer ComMECH series screw compressor packages are designed to offer the best possible quality refrigeration plant for commercial air conditioning and high temperature product storage.

The heart of the package is the Bitzer CSH compact screw compressor with all pipe work and line components individually engineered to match each compressor selection, which provides optimum system efficiency and performance. Many options are available, such as a fully integrated electrical system that includes all component wiring along with a micro processor controller for compressor control management.

Standard A/C units - without economiser

Cat. No.	Part No.	Model No.
2709485	U18-001	CSH 6553-35
2709486	U18-002	CSH 6553-50
2709487	U18-003	CSH 6563-40
2709488	U18-004	CSH 6563-60
2709489	U18-005	CSH 7553-50
2709490	U18-006	CSH 7553-70
2709491	U18-007	CSH 7563-60
2709492	U18-008	CSH 7563-80
2709493	U18-009	CSH 7573-70
2709494	U18-010	CSH 7573-90
2709495	U18-011	CSH 7583-80
2709496	U18-012	CSH 7593-90

R134a A/C units - Optimized packages with economiser fitted

Cat. No.	Part No.	Model No.
2709497	U18-201	CSH 6553-35
2709498	U18-203	CSH 6563-40
2709499	U18-205	CSH 7553-50
2709500	U18-207	CSH 7563-60
2709501	U18-209	CSH 7573-70
2709502	U18-211	CSH 7583-80
2709503	U18-212	CSH 7593-90

R407C A/C units - Optimized packages with economiser fitted

Cat. No.	Part No.	Model No.
2709504	U18-202	CSH 6553-50
2709505	U18-204	CSH 6563-60
2709506	U18-206	CSH 7553-70
2709507	U18-208	CSH 7563-80
2709508	U18-210	CSH 7573-90

Unit Accessories

Panel Assembly

Cat. No.	Part No.	Description
2709509	U40-112	R134a Dual Gauge Panel Assembly
2709510	U40-113	R407C Dual Gauge Panel Assembly

Liquid Line Accessories

Cat. No.	Part No.	Description
2709511	U40-051	1 $\frac{3}{8}$ " Liquid Bypass Valve Assembly
2709512	U40-052	1 $\frac{5}{8}$ " Liquid Bypass Valve Assembly

Electrical Panel & Components

Cat. No.	Part No.	Description
2709515	U10-300	CSH Microprocessor Controller (supplied loose)
2709517	U10-283	65 Series Electrical Panel (includes controller)
2709518	U10-282	75 Series Electrical Panel (includes controller)

Communication Cards

Cat. No.	Part No.	Description
	N32-908	Network Connection Serial Card
	N32-920	BAC net Communication Card

Exterior Weather Protection Canopy Set

Cat. No.	Part No.	Description
2709522	U50-121	Exterior Panel Set for 65 Series Units
2709523	U50-101	Exterior Panel Set for 75 Series Units

Suction Line Accessories

Cat. No.	Part No.	Description
2709513	U40-073	2 $\frac{1}{8}$ " Suction Line Ball Valve (CSH 65)
2709514	U40-076	3 $\frac{1}{8}$ " Suction Line Ball Valve (CSH 75)

Inclusion of Condensor Fan Motor Starters

Cat. No.	Part No.	Description
2709519	N41-803	Suits 4 x 500 / 630mm Fans
2709520	N41-804	Suits 5 x 500 / 630mm Fans
2709521	N41-805	Suits 6 x 500 / 630mm Fans

EXV Driver Kits

Cat. No.	Part No.	Description
2709516	U10-305	CSH7 Series EXV Driver Kit
	U10-304	CSH6 Series EXV Driver Kit

Actrol Sales & Application Engineers are available to provide assistance with technical information such as capacities and information on all the available unit options.



Condensing Units

Tecumseh

HTA EVO



The **HTA EVO** range is an evolution of the proven HTA range. HTA EVO is a fully fitted range of condensing units to provide easier and faster installation.

The HTA EVO range includes all features and benefits of the HTA condensing unit range plus the following additional features:

- Automatic reset HP/LP control
- Oil separator
- Liquid line with filter drier and moisture indicator
- Fully wired including circuit breaker/s and compressor contactor
- Suction accumulator on low temperature models

R134a - Hermetic Reciprocating

Medium / High Temperature Applications

Cat. No.	Model No.	Compressor		Amb. Temp °C	R134a Capacity : Watts								Connections Suct: Liquid	Cond. Fan(s) 240V No./Dia. mm	MOC: Amps			
		Nom. HP	Motor Type		Evaporating Temperature : °C													
					-15	-10	-5	0	5	7.2	10	15						
2709922	EPCH4518Y-1PH	1½	CSR	32	1909	2420	3050	3800	4674	5098	5674	6804	5⁄8"	2/350	15.4			
2709923	EPCH4518Y-3PH		3Ø	38	1774	2255	2849	3559	4389	4793	5342	6422			5.01			
2709924	EPCH4525Y-1PH	2	CSR	43	1661	2117	2682	3358	4151	4538	5065	6104			16.9			
2709925	EPCH4525Y-3PH		3Ø	32	2306	3138	4000	4940	6006	6526	7245	8710			6.46			
				38	2143	2924	3737	4626	5640	6135	6821	8221						
				43	2007	2745	3517	4365	5335	5809	6467	7814						
2709926	EPCH4528Y-3PH	2½	3Ø	32	2267	3103	4073	5179	6426	7020	7818	9359	7⁄8"	2/400	11.1			
				38	2107	2891	3805	4851	6034	6599	7360	8834						
				43	1973	2715	3581	4577	5708	6249	6978	8396						
2709927	EPCH4537Y-3PH	3	3Ø	32	3167	4294	5586	7042	8662	9427	10447	12396			3⁄8"		11.1	
				38	2943	4001	5218	6595	8134	8862	9835	11701						
				43	2756	3757	4911	6223	7694	8391	9325	11121						
2709928	EPCH4543Y-3PH	3½	3Ø	32	3547	4856	6249	7834	9615	10462	11597	13791			11.1			
				38	3344	4524	5837	7337	9029	9835	10917	13017						
				43	3174	4248	5494	6923	8540	9312	10351	12372						

Capacity Rating Basis: 11K Return gas superheat, temperature of refrigerant at condenser outlet is subcooled within the condensing limits of the unit. *MOC: Maximum Operating Current.

R404A - Hermetic Reciprocating

Low Temperature Applications

Cat. No.	Model No.	Compressor		Amb. Temp °C	R404A Capacity: Watts Evaporating Temperature: °C							Connections Suct: Liquid	Cond. Fan(s) 240V No./Dia. mm	MOC: Amps
		Nom HP	Motor Type		-40	-35	-30	-23.3	-20	-15	-10			
2709901	EPCL2480Z-1PH	2	CSR	32 38 43	872 771 687	1334 1192 1073	1800 1624 1478	2432 2224 2051	2746 2528 2347	3225 2999 2811	3709 3483 3295	5/8" 3/8"	1/350	20.1
2709902	EPCL2511Z-1PH	2 1/2	CSR 3Ø	32	1194	1744	2356	3274	3767	4566	5427	5/8"	2/350	25.5
2709903	EPCL2511Z-3PH			38 43	1055 940	1557 1402	2126 1934	2995 2762	3468 3219	4246 3979	5096 4821	5/8" 3/8"		5.86
2709904	EPCL2516Z-3PH	4	3Ø	32 38 43	1671 1477 1316	2429 2170 1954	3268 2949 268	4519 4133 3812	5188 4777 4434	6269 5829 5463	7430 6977 6600	7/8" 3/8"	2/350	10.7
2709905	EPCL2522Z-3PH	5 1/2	3Ø	32 38 43	2024 1789 1594	3077 2748 2474	4202 3792 3450	5826 5329 4915	6674 6145 5704	8019 7457 6989	9438 8863 8383	1 1/8" 3/8"	2/400	15.1

Capacity Rating Basis: Return gas at ambient temperature, temperature of refrigerant at condenser outlet is subcooled within the condensing limits of the unit.
*MOC: Maximum Operating Current.

Motor Types:

- CSIR: Capacitor Start, Induction Run
 - CSR: Capacitor Start and Run
 - 3Ø: 3 Phase, 50 Hz, 400 Volt
- } 1 Phase, 50 Hz, 220-240 Volt

All models are also suitable for operation with R507

Condensing Units



Tecumseh

HTA EVO



The **HTA EVO** range is an evolution of the proven HTA range. HTA EVO is a fully fitted range of condensing units to provide easier and faster installation.



The HTA EVO range includes all features and benefits of the HTA condensing unit range plus the following additional features:

- Automatic reset HP/LP control
- Oil separator
- Liquid line with filter drier and moisture indicator
- Fully wired including circuit breaker/s and compressor contactor
- Suction accumulator on low temperature models

R404A - Hermetic Reciprocating

Medium Temperature Applications

Cat. No.	Model No.	Compressor		Amb. Temp °C	R404A Capacity: Watts Evaporating Temperature: °C								Connections Suct: Liquid	Cond. Fan(s) 240V No./Dia. mm	MOC: Amps
		Nom HP	Motor Type		-25	-20	-15	-10	-5	0	5	10			
2709909	EPCH9510Z-1PH	1	CSR	32 38 43	751	971 860 767	1228 1099 991	1526 1374 1248	1868 1689 1539	2256 2046 1871	2696 2453 2250	3195 2918 2687	5/8" 3/8"	1/320	8.6
2709910	EPCH9513Z-1PH	1 1/8	CSR	32 38 43	891	1189 1033 903	1543 1359 1205	1954 1735 1552	2426 2165 1947	2964 2653 2394	3573 3207 2902	4264 3839 3484		1/350	10.9
2709911	EPCH4517Z-1PH	1 1/4	CSR	32 38 43		1302	1693 1498 1335	2138 1911 1721	2643 2375 2152	3214 2899 2636	3860 3491 3184	4597 4170 3814		1/400	11.3
2709912	EPCH4519Z-1PH	1 1/2	CSR	32 38 43		1841	2328 2035 1791	2887 2564 2294	3526 3162 2858	4251 3838 3494	5073 4604 4214	6008 5480 5040		1/400	16
2709913	EPCH4524Z-1PH	2	CSR	32 38 43			2654 2466 2310	3315 3089 2900	4012 3747 3527	4750 4449 4198	5569 5231 4950	6387 6013 5701		1/400	204
2709914	EPCH4531Z-1PH	2 1/2	CSR	32 38 43			3594 3340 3128	4508 4200 3944	5462 5102 4802	6464 6054 5712	7555 7097 6715	8646 8139 7717	7/8" 1/2"	2/350	27.2
2709915	EPCH4531Z-3PH		3Ø	32 38 43										2/350	8.75
2709916	EPCH4540Z-3PH	3	3Ø	32 38 43			4419 4106 3846	5465 5092 4781	6517 6113 5777	7759 7267 6857	9203 8600 8099	10646 9934 9340	7/8" 5/8" 1 1/8" 5/8"	2/400	10.4
2709917	EPCH4546Z-3PH	4	3Ø	32 38 43			3942 3663 3431	4922 4586 4306	6352 5934 5585	8110 7596 7167	10101 9489 8980	12091 11382 10792		2/400	12.5
2709918	EPCH4553Z-3PH	4 1/2	3Ø	32 38 43			5359 4980 4664	6769 6307 5922	8359 7808 7349	10101 9460 8926	12027 11298 10690	13953 13135 12454		2/400	13.1
2709919	EPCH4561Z-3PH	5	3Ø	32 38 43			5509 5119 4794	6954 6479 6083	8691 8118 7641	10639 9964 9402	12739 11964 11402	14838 13953 13135		2/400	15.1
2709920	EPCH4568Z-3PH	6	3Ø	32 38 43			6765 6287 5888	8820 8218 7716	10928 10208 9608	13102 12270 11576	15375 14442 13664	17647 16613 15752		2/400	16.3
2709921	EPCH4573Z-3PH	6 1/2	3Ø	32 38 43			7410 6886 6449	9224 8594 8069	11205 10466 9851	13354 12507 11801	15501 14698 14029	17647 16889 16257		2/400	19.1

Capacity Rating Basis: 11K Return gas superheat, temperature of refrigerant at condenser outlet is subcooled within the condensing limits of the unit. Current FLA are given at nominal voltage, 32°C ambient, 32°C return gas and 7.2°C evaporating.

Motor Types:

- CSIR: Capacitor Start, Induction Run
- CSR: Capacitor Start and Run
- 3Ø: 3 Phase, 50 Hz, 400 Volt

} 1 Phase, 50 Hz, 220-240 Volt

All models are also suitable for operation with R507

R134a - Scroll - Medium Temperature Applications

Cat. No.	Model No.	Compressor		Amb. Temp °C	R134a Capacity : Watts						Connections Suct: Liquid	Cond. Fans 240V No./Dia. mm	Nom. Current Comp. + Fans FLA
		Nom. HP	Motor Type		Evaporating Temperature : °C								
					-15	-10	-5	0	5	10			
2709929	EPCHZB48 3PH	6.5	3Ø	32	5705	7230	8923	10790	12856	15158	7/8"	2/500	21.6
				35	5496	6935	8644	10441	12460	14684			
				38	5285	6628	8341	10061	12012	14207	1/2"		
				43		6182	7730	9382	11300	13313			
2709930	EPCHZB58 3PH	8	3Ø	32	6903	8579	10504	12712	15151	17850	1 1/8"		27.6
				35	6674	8302	10168	12292	14691	17324			
				38	6446	8014	9843	11901	14181	16806	5/8"		
				43		7542	9257	11206	13376	15756			
2709931	EPCHZB76 3PH	10	3Ø	32	8942	11080	13545	16305	19407	22794	1 1/8"		31.5
				35	8651	10690	13065	15804	18788	22014			
				38	8357	10321	12611	15234	18173	21234	5/8"		
				43		11837	14292	17108	20114				
2709932	EPCHZB95 3PH	13	3Ø	32	11213	14068	17202	20699	24611	28991	1 1/8"		32.4
				35	10728	13498	16572	20031	23821	27971			
				38	10218	12942	15963	19281	22977	27060	5/8"		
				43		14833	17981	21226	25328				
2709933	EPCHZB114 3PH	15	3Ø	32	12968	16317	20048	24304	28863	33724	1 1/8"		36
				35	12398	15657	19351	23404	27951	32643			
				38		15009	18541	22569	26811	31588	5/8"		
				43			17208	20971	25021	29288			

Capacities based on 18°C return vapour and 3K sub-cooling

R404A - Scroll - Medium Temperature Applications

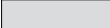
Cat. No.	Model No.	Compressor		Amb. Temp °C	R404a Capacity : Watts						Connections Suct: Liquid	Cond. Fans 240V No./Dia. mm	Nom. Current Comp. + Fans FLA
		Nom. HP	Motor Type		Evaporating Temperature : °C								
					-15	-10	-5	0	5	10			
2709929	EPCHZB48 3PH	6.5	3Ø	32	10025	11851	13855	16138	18472		7/8"	2/500	21.6
				35	9545	11292	13208	15238	17685				
				38	9029	10662	12555	14509	16605		1/2"		
				43	8159	9668	11350	13145	15057				
2709930	EPCHZB58 3PH	8	3Ø	32	11828	14148	16741	19387	22131	25472	1 1/8"		27.6
				35	11228	13505	15871	18397	21226	24092			
				38	10560	12755	15127	17533	19996	23157	5/8"		
				43	9364	11432	13719	15934	18218	20557			
2709931	EPCHZB76 3PH	10	3Ø	32	15358	18258	21210	24333	27896	31145	1 1/8"		31.5
				35	14628	17298	20270	23252	26276	30018			
				38	13818	16433	19070	21812	25150	28038	5/8"		
				43	12379	14794	17254	19777					

Capacities based on 18°C return vapour and 3K sub-cooling

R404A - Scroll - Low Temperature Applications

Cat. No.	Model No.	Compressor		Amb. Temp °C	R404a Capacity : Watts							Connections Suct: Liquid	Cond. Fans 240V No./Dia. mm	Nom. Current Comp. + Fans FLA		
		Nom. HP	Motor Type		Evaporating Temperature : °C											
					-40	-35	-30	-25	-20	-15	-10					
2709906	EPCLZF24 3PH	7.5	3Ø	32	4306	6013	6744	8193	9879	11676	13681	7/8"	2/500	18.5		
				35	4126	5274	6509	7893	9459	11196	13104					
				38	3946	5034	6269	7592	9033	10707	12444	1/2"				
				43	3595	4634	5786	7006	8268	9807	11416					
2709907	EPCLZF33 3PH	10	3Ø	32	6013	7531	9285	11332	13533	16058	18844	7/8"			2/500	22.7
				35	5713	7229	8909	10819	12933	15400	18031					
				38	5474	6899	8549	10313	12367	14620	17071	1/2"				
				43	5017	6351	7863	9526	11372	13398	15609					
2709908	EPCLZF40 3PH	13	3Ø	32	7201	9112	11263	13595	16182	18998	22168	7/8"	2/500	26.1		
				35	6897	8752	10783	12995	15498	18141	21028					
				38	6597	8384	10286	12421	14718	17291	20034	1/2"				
				43	6092	7690	9401	11346	13391	15591	18200					

Capacities based on 18°C return vapour and 3K sub-cooling

 Requires liquid injection for compressor cooling

The smarter way to work.

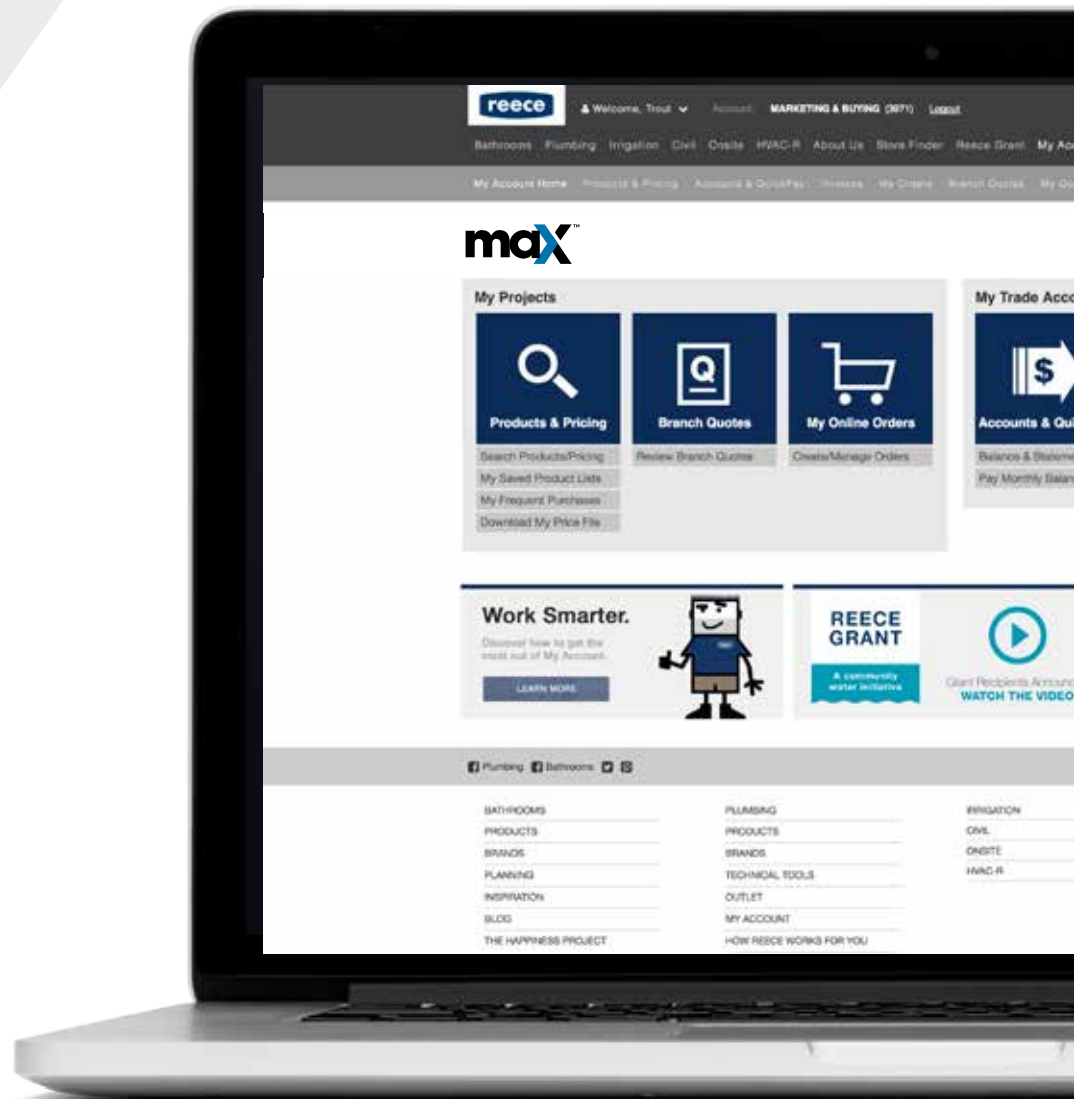


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Condensing Units



Tecumseh



L'Unite Hermetique - HTA Condensing Unit

The smaller overall dimensions and reduced sound levels of the AE2 condensing units allow greater flexibility in self contained cabinets while the wider capacity range will suit more applications.

- For situations where air circulation to the condensing unit is restricted
- High ambient temperature capability up to 43°C
- Ideal for product pull down where high evaporating temperatures occur
- Where greater efficiency is required to lower energy consumption

Features

- All models fitted with liquid receiver
- Compressor charged with Polyolester oil and dry nitrogen



R134a - Hermetic - For Medium / High Temperature Applications

Cat. No.	Model No.	Compressor		Amb. Temp °C	R404A Capacity: Watts Evaporating Temperature: °C						Connections Suct: Liquid	Cond. Fan(s) No./Dia. mm	MOC: Amps	
		Nom HP	Motor Type		-20	-15	-10	-5	0	5				10
2709829	AET4425YHR-FZ	1/5	CSIR	32 38 43	176	243 220 200	319 291 267	402 368 339	493 452 417	591 540 498	693 632 582	3/8" 1/4"	1/200	2.6
9507060	AET4430YHR-FZ	1/4	CSIR	32 38 43	249	324 298 276	411 379 352	510 471 438	622 573 533	744 686 637	876 807 750		1/250	3.7
9507062	AET4440YHR-FZ	1/3	CSIR	32 38 43	344	435 400 370	539 496 460	656 617 561	786 724 672	929 855 794	1084 997 925		1/250	4.54
9507061	AET4450YHR-FZ	3/8	CSIR	32 38 43	440	566 520 481	709 651 603	870 798 738	1049 960 886	1245 1138 1048	1459 1330 1223		1/300	5.2
9507063	AET4456YHR-FZ	1/2	CSIR	32 38 43	508	649 597 553	807 745 693	985 909 846	1182 1090 1014	1398 1288 1197	1634 1504 1395		1/300	5.8
9507064	AET4460YHR-FZ	1/2	CSR	32 38 43	523	670 614 567	836 769 714	1023 942 875	1231 1134 1053	1463 1346 1248	1720 1579 1461		1/300	5.3

R404A - Hermetic - For Medium / High Temperature Applications

Cat. No.	Model No.	Compressor		Amb. Temp °C	R404A Capacity: Watts Evaporating Temperature: °C							Connections Suct: Liquid	Cond. Fan(s) No./Dia. mm	MOC: Amps
		Nom HP	Motor Type		-20	-15	-10	-5	0	5	10			
2709824	AET4425ZHR-FZ	1 ⁵ / ₈	CSIR	32 38 43	234	293 262 236	359 321 289	432 386 347	511 455 409	597 861 474	687 608 542	3 ⁸ / ₈ " 1 ⁴ / ₄ "	1/200	3
9507070	AET4430ZHR-FZ	1 ⁴ / ₄	CSIR	32 38 43	290	361 323 292	440 394 356	525 470 424	616 549 494	711 632 566	809 716 639		1/250	3.3
9507071	AET4440ZHR-FZ	1 ³ / ₃	CSIR	32 38 43	390	483 431 387	584 522 471	693 620 559	808 722 651	929 829 746	1053 938 843		1/250	4.3
9507010	AET4450ZHR-FZ	3 ⁸ / ₈	CSIR	32 38 43	542	674 603 544	820 736 666	981 880 796	1154 1034 934	1340 1197 1078	1535 1367 1227		1/300	5.7
9507011	AET4460ZHR-FZ	1 ² / ₂	CSIR	32 38 43	675	816 731 660	972 873 790	1142 1026 929	1325 1189 1076	1520 1363 1232	1724 1544 1394		1/300	6.5
9507012	AET4470ZHR-FZ	1 ² / ₂	CSR	32 38 43	779	946 856 781	1125 1021 934	1316 1194 1092	1519 1377 1258	1733 1567 1429	1956 1766 1607		1/300	5.9

Capacity Rating Basis: EN13215: 20°C Return gas, 3K Subcooling

Motor Types:
 • CSIR: Capacitor Start, Induction Run
 • CSR: Capacitor Start and Run } 1 Phase, 50 Hz, 220-240 Volt



Condensing Units

Tecumseh

L'Unite Hermetique

R404A - Hermetic Reciprocating - For Low Temperature Applications

HTA - the High Temperature Answer.

The HTA range has been developed to meet Australia's specific requirements:

- For situations where air circulation to the condensing unit is restricted
- High ambient temperature capability up to 43°C
- Ideal for product pull down where high evaporating temperatures occur
- Where greater efficiency is required to lower energy consumption

Features

- All models fitted with liquid receiver
- Compressor charged with Polyolester oil and dry nitrogen
- Rotalock suction and liquid valves on CAJ/TAJ, FH/TFH and TAG models
- Crankcase heater and oil sight glass on FH/TFH and TAG models
- Automatic reset HP/LP control on CAJ/TAJ, FH/TFH and TAG models

Cat. No.	Model No.	Compressor		Amb. Temp °C	R404A Capacity: Watts Evaporating Temperature: °C							Connections Suct: Liquid	Cond. Fan(s) No./Dia. mm	MOC: Amps
		Nom HP	Motor Type		-40	-35	-30	-23.3	-20	-15	-10			
2709827	AET2415ZBR-FZ	3/8	CSIR	32 38 43	158	211 185 164	271 240 215	339 302 272	414 370 334	495 443 400	581 521 471	3/8" 1/4"	1/200	3.2
2709825	AET2420ZBR-FZ	1/2	CSIR	32 38 43	204	271 233 202	349 304 267	437 384 340	534 472 420	639 568 508	750 669 602		1/250	5
2709828	AET2425ZBR-FZ	5/8	CSR	32 38 43	272	369 328 294	481 432 391	609 550 500	752 680 620	911 824 752	1085 981 895	1/2" 1/4"	1/300	4.8
3500000	CAJ2428ZBR-FZ	1/2	CSIR	32 38 43	263 217 179	374 319 274	507 442 387	720 637 567	841 747 669	1043 932 840	1270 1141 1033			5.7
3500001	CAJT2432ZBR-FZ	5/8	CSR	32 38 43	332 272 222	460 394 339	625 544 477	882 779 693	1024 908 812	1256 1120 1006	1505 1347 1215			6.8
3500002	CAJT2446ZBR-FZ	3/4	CSR	32 38 43	531 446 375	729 628 544	953 832 731	1291 1136 1007	1470 1296 1151	1756 1550 1378	2053 1812 1612			8.1
3500003	CAJT2464ZBR-FZ	1 1/2	CSR 3Ø	32 38 43	722 625 544	970 855 759	1258 1121 1006	1704 1531 1387	1947 1754 1594	2343 2119 1932	2768 2510 2295	5/8" 3/8"	1/350	10.5 3.8
3500004	TAJT2464ZBR-TZ			32 38 43	722 625 544	970 855 759	1258 1121 1006	1704 1531 1387	1947 1754 1594	2343 2119 1932	2768 2510 2295			20.1 4.33
9507014	FHT2480ZBR-2	2	CSR 3Ø	32 38 43	872 771 687	1334 1192 1073	1800 1624 1478	2432 2224 2051	2746 2528 2347	3225 2999 2811	3709 3483 3295			
2709877	TFHT2480ZBR-2			32 38 43	872 771 687	1334 1192 1073	1800 1624 1478	2432 2224 2051	2746 2528 2347	3225 2999 2811	3709 3483 3295			
9507078	FHT2511ZBR-2	2 1/2	CSR 3Ø	32 38 43	1194 1055 940	1744 1557 1402	2356 2126 1934	3274 2995 2762	3767 3468 3219	4566 4246 3979	5427 5096 4821	7/8" 3/8" 1 1/8" 3/8"	2/350	25.5 5.86
2709878	TFHT2511ZBR-2			32 38 43	1194 1055 940	1744 1557 1402	2356 2126 1934	3274 2995 2762	3767 3468 3219	4566 4246 3979	5427 5096 4821			10.7
2709879	TAGT2516ZBR-2	4	3Ø	32 38 43	1671 1477 1316	2429 2170 1954	3268 2949 2683	4519 4133 3812	5188 4777 4434	6269 5829 5463	7430 6991 6600			
2709880	TAGT2522ZBR-2	5 1/2	3Ø	32 38 43	2024 1789 1594	3077 2748 2474	4202 3792 3450	5826 5329 4915	6674 6145 5704	8019 7457 6989	9438 8863 8383		2/400	15.1

Capacity Rating Basis: Return gas at ambient temperature, temperature of refrigerant at condenser outlet is subcooled within the condensing limits of the unit. *MOC: Maximum Operating Current.

Motor Types:

- CSIR: Capacitor Start, Induction Run
- CSR: Capacitor Start and Run
- 3Ø: 3 Phase, 50 Hz, 400 Volt

} 1 Phase, 50 Hz, 220-240 Volt

All models are also suitable for operation with R507.



Condensing Units

Tecumseh

L'Unite Hermetique

R404A – Hermetic – For Medium / High Temperature Applications

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- Where greater efficiency is required to lower energy consumption

Features

- Compressor charged with Polyolester oil and dry nitrogen
- All models fitted with liquid receiver
- Rotalock suction and liquid valves on all models
- Automatic reset HP/LP control on CAJ/TAJ, FH/TFH and TAG models



Cat. No.	Model No.	Compressor		Amb. Temp °C	R404A Capacity: Watts Evaporating Temperature: °C								Connections Suct: Liquid	Cond. Fan(s) No./ Dia. mm	MOC: Amps
		Nom HP	Motor Type		-25	-20	-15	-10	-5	0	5	10			
3500009	CAJT9480ZMHR-FZ	5/8	CSR	32 38 43	589	767 679 606	976 874 789	1218 1097 997	1495 1352 1233	1811 1624 1502	2170 1973 1809	2577 2351 2162	1/2" 3/8"	1/300	7.3
3500010	CAJT9510ZMHR-FZ	1	CSR	32 38 43	751	971 860 767	1228 1099 991	1526 1374 1248	1868 1689 1539	2256 2046 1871	2696 2453 2250	3195 2918 2687	5/8" 3/8"	1/320	9.2
3500011	CAJT9513ZMHR-FZ	1 1/8	CSR	32 38 43	891	1189 1033 903	1543 1359 1205	1954 1735 1552	2426 2165 1947	2964 2653 2394	3573 3207 2902	4264 3839 3484		1/350	12
3500012	CAJT4517ZHR-FZ	1 1/4	CSR 3Ø	32 38 43	1302	1693 1498 1335	2138 1911 1721	2643 2375 2152	3214 2899 2636	3860 3491 3184	4597 4170 3814	13.4 4.5			
3500013	TAJT4517ZHR-TZ			32 38 43		1498 1335	1911 1721	2375 2152	2899 2636	3491 3184	4170 3814				
3500014	CAJT4519ZHR-FZ	1 1/2	CSR 3Ø	32 38 43	1841	2328 2035 1791	2887 2564 2294	3526 3162 2858	4251 3838 3494	5073 4604 4214	6008 5480 5040	1/400		16 5.4	
3500015	TAJT4519ZHR-TZ			32 38 43		2328 2035 1791	2887 2564 2294	3526 3162 2858	4251 3838 3494	5073 4604 4214	6008 5480 5040				
9507072	FHT4524ZHR-2	2	CSR 3Ø	32 38 43		2654 2466 2310	3315 3089 2900	4012 3747 3527	4750 4449 4198	5569 5231 4950	6387 6013 5701	5/8" 3/8"	1/400	20.4 6.9	
2709889	TFHT4524ZHR-2			32 38 43		2654 2466 2310	3315 3089 2900	4012 3747 3527	4750 4449 4198	5569 5231 4950	6387 6013 5701				
9507073	FHT4531ZHR-2	2 1/2	CSR 3Ø	32 38 43		3594 3340 3128	4508 4200 3944	5462 5102 4802	6464 6054 5712	7555 7097 6715	8646 8139 7717	7/8"	2/350	27.2 8.75	
2709890	TFHT4531ZHR-2			32 38 43		3594 3340 3128	4508 4200 3944	5462 5102 4802	6464 6054 5712	7555 7097 6715	8646 8139 7717				
9507074	FHT4540ZHR-2	3	CSR 3Ø	32 38 43		4419 4106 3846	5465 5092 4781	6517 6113 5777	7759 7267 6857	9203 8600 8099	10646 9934 9340	1/2"		28.8 10.4	
2709891	TFHT4540ZHR-2			32 38 43		4419 4106 3846	5465 5092 4781	6517 6113 5777	7759 7267 6857	9203 8600 8099	10646 9934 9340				
2709892	TAGT4546ZHR-2	4	3Ø	32 38 43		3942 3663 3431	4922 4586 4306	6352 5934 5585	8110 7596 7167	10101 9489 8980	12091 11382 10792	7/8"	2/400	12.5	
2709893	TAGT4553ZHR-2	4 1/2	3Ø	32 38 43		5359 4980 4664	6769 6307 5922	8359 7808 7349	10101 9460 8926	12027 11298 10690	13953 13135 12454			5/8"	13.1
2709894	TAGT4561ZHR-2	5	3Ø	32 38 43		5509 5119 4794	6954 6479 6083	8691 8118 7641	10639 9964 9402	12739	14838	1 1/8" 5/8"		15.1	
2709895	TAGT4568ZHR-2	6	3Ø	32 38 43		6765 6287 5888	8820 8218 7716	10928 10208 9608	13102 12270 11576	15375 14442 13664	17647 16613 15752			16.3	
2709896	TAGT4573ZHR-2	6 1/2	3Ø	32 38 43		741 6886 6449	922 8594 8069	1120 10466 9851	1335 12507 11801	1550 14698 14029	1764 16889 16257			19.1	

Capacity Rating Basis: 11K Return gas superheat, temperature of refrigerant at condenser outlet is subcooled within the condensing limits of the unit.

*MOC: Maximum Operating Current.

Motor Types:

- CSIR: Capacitor Start, Induction Run
- CSR: Capacitor Start and Run

} 1 Phase, 50 Hz, 220-240 Volt • 3Ø: 3 Phase, 50 Hz, 400 Volt

All models are also suitable for operation with R507



Condensing Units

Tecumseh

L'Unite Hermetique

R134a – Hermetic – For Medium / High Temperature Applications



HTA - the High Temperature Answer.

The HTA range has been developed to meet Australia's specific requirements:

- High ambient temperature capability up to 43°C
- For situations where air circulation to the condensing unit is restricted
- Ideal for product pull down where high evaporating temperatures occur
- Where greater efficiency is required to lower energy consumption

Features

- Compressor charged with Polyolester oil and dry nitrogen
- All models fitted with liquid receiver
- Rotolock suction and liquid valves on CAJ/TAJ models
- Crankcase heater and oil sight glass on FH/TFH and TAG models
- Automatic reset HP/LP control on CAJ/TAJ, FH/TFH and TAG models

Cat. No.	Model No.	Compressor		Amb. Temp °C	R134a Capacity : Watts								Connections Suct: Liquid	Cond. Fan(s) No./Dia. mm	MOC: Amps
		Nom. HP	Motor Type		Evaporating Temperature : °C										
					-15	-10	-5	0	5	7.2	10	15			
3500005	CAJT4476YHR-FZ	5/8	CSIR	32 38 43	714 630 560	948 850 768	1219 1103 1007	1530 1394 1280	1883 1722 1588	2057 1884 1740	2279 2091 1934	2722	1 1/2"	1/300	7.5
3500006	CAJT4492YHR-FZ	3/4	CSIR	32 38 43	918 822 742	1215 1103 1007	1566 1432 1321	1977 1817 1684	2454 2263 2104	2695 2488 2316	3002 2776 2587	3629 3363 3141		3/8"	1/350
3500007	CAJT4511YHR-FZ	1	CSR 3Ø	32 38 43	1222 1109 1014	1588 1453 1341	2014 1852 1717	2507 2312 2150	3071 2838 2643	3353 3100 2889	3713 3435 3204	4440 4113 3840	5/8" 3/8"	1/350	9.3 3.7
3500008	TAJT4511YHR-TZ			32 38 43	1222 1109 1014	1588 1453 1341	2014 1852 1717	2507 2312 2150	3071 2838 2643	3353 3100 2889	3713 3435 3204	4440 4113 3840			
9507068	FHT4518YHR-2	1 1/2	CSR 3Ø	32 38 43	1909 1774 1661	2420 2255 2117	3050 2849 2682	3800 3559 3358	4674 4389 4151	5098 4793 4538	5674 5342 5065	6804 6422 6104		2/350	15.4 5.01
2709846	TFHT4518YHR-2			32 38 43	1909 1774 1661	2420 2255 2117	3050 2849 2682	3800 3559 3358	4674 4389 4151	5098 4793 4538	5674 5342 5065	6804 6422 6104			
9507069	FHT4525YHR-2	2	CSR 3Ø	32 38 43	2306 2143 2007	3138 2924 2745	4000 3737 3517	4940 4626 4365	6006 5640 5335	6526 6135 5809	7245 6821 6467	8710 8221 7814			16.9 6.46
2709847	TFHT4525YHR-2			32 38 43	2306 2143 2007	3138 2924 2745	4000 3737 3517	4940 4626 4365	6006 5640 5335	6526 6135 5809	7245 6821 6467	8710 8221 7814			
2709848	TAGT4528YHR-2	2 1/2	3Ø	32 38 43	2267 2107 1973	3103 2891 2715	4073 3805 3581	5179 4851 4577	6426 6034 5708	7020 6599 6249	7818 7360 6978	9359 8834 8396	7/8" 3/8"	2/400	11.1
2709849	TAGT4534YHR-2	2 3/4	3Ø	32 38 43	2940 2732 2559	3954 3684 3459	5115 4778 4497	6426 6019 5679	7893 7412 7011	8588 8073 7644	9519 8962 8497	11308 10673 10144			7.57
2709850	TAGT4537YHR-2	3	3Ø	32 38 43	3167 2943 2756	4294 4001 3757	5586 5218 4911	7042 6595 6223	8662 8134 7694	9427 8862 8391	10447 9835 9325	12396 11701 11121			11.1
2709851	TAGT4543YHR-2	3 1/2	3Ø	32 38 43	3547 3344 3174	4856 4524 4248	6249 5837 5494	7834 7337 6923	9615 9029 8540	10462 9835 9312	11597 10917 10351	13791 13017 12372			11.1

Capacity Rating Basis: 11K Return gas superheat, temperature of refrigerant at condenser outlet is subcooled within the condensing limits of the unit.

*MOC: Maximum Operating Current.

Motor Types:

- CSIR: Capacitor Start, Induction Run
- CSR: Capacitor Start and Run

} 1 Phase, 50 Hz, 220-240 Volt • 3Ø: 3 Phase, 50 Hz, 400 Volt

Condensing Units

Tecumseh

L'Unite Hermetique

HTA and HTA EVO Unit Covers

For use indoors & out, Hermetique's condensing unit covers are aesthetically pleasing whilst providing increased protection from weather and accidental or intentional damage. Supplied flat packed, the covers are both galvanised and powder coated to provide long life and include fixings. The covers attach directly to the unit base utilising the preformed mounting points on HTA and HTA EVO condensing units.

Features

- Galvanised & powder coated panels
- Flat packed for easy onsite assembly
- Designed specifically to fit HTA and HTA EVO units
- Includes fixings



Cat. No.	Part No.	Description	Suits Condensing Unit Model				
			R404A		R134a		R22
2708254	1000004	Small HTA Condensing Unit Cover	CAJT9510ZMHR	EPCH9510Z-1PH	CAJT4492YHR		CAJT9510TMHR
			CAJT9513ZMHR	EPCH9513Z-1PH	CAJT4511YHR		CAJT9513TMHR
			CAJT4517ZHR	EPCH4517Z-1PH	TAJT4511YHR		CAJT4517EHR
			TAJT4517ZHR				TAJT4517THR
			CAJT2464ZBR				
			TAJT2464ZBR				
			FHT2480ZBR				
			TFHT2480ZBR				
2708255	1000005	Medium HTA Condensing Unit Cover	CAJT4519ZHR	EPCH4519Z-1PH			TAJT4519THR
			TAJT4519ZHR				FHT4524FHR
			FHT4524ZHR	EPCH4524Z-1PH			TFHT4524FHR
			TFHT4524ZHR				FHST4531FHR
							TFHST4531FHR
2708256	1000006	Large HTA Condensing Unit Cover	FHT4531ZHR	EPCH4531Z-1PH	FHT4518YHR	EPCH4518Y-1PH	FHT4531FHR
			TFHT4531ZHR	EPCH4531Z-3PH	TFHT4518YHR	EPCH4518Y-3PH	TFHT4531FHR
			TFHT4540ZHR	EPCH4540Z-3PH	FHT4525YHR	EPCH4525Y-1PH	TFHT4540FHR
			TAGT4546ZHR	EPCH4546Z-3PH	TFHT4525YHR	EPCH4525Y-3PH	TAGT4546THR
			TAGT4553ZHR	EPCH4553Z-3PH	TAGT4528YHR	EPCH4528Y-3PH	TAGT4553THR
			TAGT4561ZHR	EPCH4561Z-3PH	TAGT4534YHR		TAGT4561THR
			TAGT4568ZHR	EPCH4568Z-3PH	TAGT4537YHR	EPCH4537Y-3PH	TAGT4568THR
			TAGT4573ZHR	EPCH4573Z-3PH	TAGT4543YHR	EPCH4543Y-3PH	TAGT4573THR
			FHT2511ZBR	EPCL2511Z-1PH			
			TFHT2511ZBR	EPCL2511Z-3PH			
			TAGT2516ZBR	EPCL2516Z-3PH			
			TAGT2522ZBR	EPCL2522Z-3PH			

Condensing Units



Danfoss

Maneurop Optyma Series

The Danfoss Optyma range of condensing units are fitted with Maneurop reciprocating compressors and can be used on a wide range of refrigerants including R404A & R134a.

- Maneurop reciprocating compressors
- All models fitted with liquid receiver
- Rotalock suction and liquid valves on compressor
- Crankcase heater, oil sight glass and convertible reset HP/LP control
- High ambient temperature capability
- Compressor charged with Polyolester oil and dry nitrogen
- Liquid line drier and sight glass fitted

Medium Temperature

Cat. No.	Model No.	Nom. HP	Compressor				Fan				Liquid Receiver Capacity: l	Connections		Nett Weight: kg	Dimensions: mm				
			Model No.	MOC Amps	LRC Amps	Volts Phase	No. Dia: mm	MOC Amps	Air Flow l/s	Volts Phase		Suct	Liq		L	W	H		
2709816	OP-MGZE136	6 1/2	MTZ080-4	18	80	415/3	2 x 450	2 x 1.7	8600	240/1	10	1 1/8"	1/2"	130	1210	800	725		
2709817	OP-MGZE171	7 1/2	MTZ100-4	22	90		2 x 600	2 x 3.0	14000		14		5/8"	220	1510	875	1005		
2709818	OP-MGZE215	10	MTZ125-4	27	105									225					
2709819	OP-MGZE242	12	MTZ144-4	30	115									230					
2709820	OP-MGZE271	13 1/2	MTZ160-4	36	140									245					

Low Temperature

Cat. No.	Model No.	Nom. HP	Compressor				Fan				Liquid Receiver Capacity: l	Connections		Nett Weight: kg	Dimensions: mm		
			Model No.	MOC Amps	LRC Amps	Volts Phase	No. Dia: mm	MOC Amps	Air Flow l/s	Volts Phase		Suct	Liq		L	W	H
2709821	OP-LGZE136	4	NTZ136-4	14.3	51	415/3	2 x 350	2 x 1.2	3600	240/1	8	7/8"	1 1/2"	100	1000	725	565
2709822	OP-LGZE215	7 1/2	NTZ215-4	22.3	74		2 x 450	2 x 1.7	9000		10	1 1/8"		145	1210	800	725
2709823	OP-LGZE271	8 1/2	NTZ271-4	27	96							150					

Medium Temperature Nominal Capacities

Model No.	Ambient Temperature: °C	R404A Capacity: Watts							R134a Capacity: Watts						
		Evaporating Temperature: °C							Evaporating Temperature: °C						
		-20	-15	-10	-5	0	5	10	-20	-15	-10	-5	0	5	10
OP-MGZE136	32	7471	9430	11642	14102	16799	19717	22838	3694	5049	6697	8666	10975	13632	16651
	38	6541	8307	10300	12518	14954	17599	20438	3239	4523	6068	7909	10065	12551	15368
	43	5783	7386	9194	11209	13428	15844	18449	2860	4080	5540	7273	9300	11638	14295
OP-MGZE171	32	8755	11334	14284	17597	21258	25246	29535	4313	5975	8012	10467	13366	16734	20582
	38	7659	9983	12629	15596	18876	22456	26317	3669	5244	7159	9457	12166	15309	18900
	43	6726	8841	11239	13922	16890	20134	23643	3219	4701	6501	8650	11185	14126	17490
OP-MGZE215	32	11095	14114	17554	21405	25646	30251	35186	5493	7520	9964	12866	16248	20125	24496
	38	9627	12327	15413	18878	22710	26886	31381	4629	6558	8865	11592	14759	18384	22473
	43	8462	10892	13678	16819	20306	24124	28254	3981	5809	7986	10549	13522	16923	20758
OP-MGZE242	32	12918	16217	19914	23986	28405	33135	38136	7091	9483	12337	15681	19530	23883	28745
	38	11265	14222	17533	21183	25150	29408	33924	6193	8461	11149	14281	17877	21940	26468
	43	9910	12576	15559	18853	22443	26308		5500	7647	10178	13118	16486	20289	24525
OP-MGZE271	32	14175	17793	21846	26311	31153	36329	41789	7870	10469	13588	17259	21498	26297	31658
	38	12388	15640	19278	23288	27645	32313	37253	6948	9400	12322	15742	19676	24127	29085
	43	10923	13860	17146	20772	24721	28967		6261	8566	11296	14481	18137	22271	26874

Ratings at 10K Superheat and 3K Sub-cooling

Low Temperature Nominal Capacities

Model No.	Ambient Temperature: °C	R404A Capacity: Watts							2708270	5312010L10	Weather Canopy	OP-LGZE136		
		Evaporating Temperature: °C										2708271	5312007L07	OP-MGZE136 OP-LGZE215 OP-LGZE271
		-40	-35	-30	-25	-20	-15	-10						
OP-LGZE136	32	2250	3102	4117	5300	6652	8171	9850	2708271	5312007L07	Weather Canopy	OP-MGZE136 OP-LGZE215 OP-LGZE271		
	38	1864	2630	3541	4602	5815	7180	8693						
	43	1551	2244	3067	4025	5121	6358	7732						
OP-LGZE215	32	3192	4420	5825	7394	9108	10945	12881	2708272	5312008L08	Weather Canopy	OP-MGZE171 OP-MGZE215 OP-MGZE242 OP-MGZE271		
	38	2543	3653	4913	6312	7834	9464	11180						
	43	2002	3010	4147	5404	6769	8228							
OP-LGZE271	32	4584	6248	8161	10304	12652	15175	17839	2708272	5312008L08	Weather Canopy	OP-MGZE171 OP-MGZE215 OP-MGZE242 OP-MGZE271		
	38	3830	5321	7023	8922	10997	13226	15581						
	43	3202	4544	6066	7759	9607	11592							

Ratings at 10K Superheat and 3K Sub-cooling

Accessories

Cat. No.	Part No.	Description	Suits Model
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Semi-Hermetic Condensing Units

Tecumseh

L'Unite Hermetique - SHT Series

The new range of Tecumseh semi-hermetic condensing units is fully fitted and fully wired to make installation fast and efficient. SHT has been designed to operate efficiently in both the hot and cold extremes of the Australian environment. This range is designed for R134a, R404A, R407F and R507 and can be applied in both low and medium temperature applications.

Features

- High ambient temperature capability up to 46°C
- Suction accumulator
- Carel fan speed control
- Automatic reset HP/LP control
- Liquid line with filter drier and moisture indicator
- Oil separator
- Ebm condenser fans
- Weathershield covers are optional
- Fully Wired D.O.L including circuit breakers, contactor, electronic overload and spare DIN rail in an enclosure
- Tecumseh semi-hermetic compressor with electronic protection module

Cat. No.	Model No.	Nom HP	Compressor				Fan				Liquid Receiver Capacity kg @ 80%	Connections		Net Weight kg	Dimensions		
			Model No.	MOC Amps	LRC Amps	Volts Phase	No. Dia: mm	MOC Amps	Air Flow l/s	Volts Phase		Suct	Liq		L mm	W mm	H mm
2707551	SHT4576ZHR	6	SH4576Z	11.6	63.1	415/3	2 x 500	2 x 3.0	2165	240/1	9.8	1 1⁄8"	5⁄8"	177	1600	890	936
2707552	SHT4590ZHR	7	SH4590Z	12.7					3330			1 3⁄8"		182			
2707553	SHT4610ZHR	8	SH4610Z	17.6										186			
2707554	SHT4612ZHR	9	SH4612Z	20	87.3		3 x 500		5000		14	7⁄8"	232	1880	1100	840	
2707555	SHT4615ZHR	12	SH4615Z	22.4	59.1								238				
2707556	SHT4620ZHR	15	SH4620Z	32.4	74.8												

Accessories

Cat. No.	Part No.	Description	Suits Model
2708252	1000012	Weather Shield Unit Cover	SHT4576ZHR, SHT4590ZHR, SHT4610ZHR & SHT4612ZHR
2708253	1000013		SHT4615ZHR, SHT4620ZHR

Refer to SH series Compressors for an extended list of accessories & spare parts.

Nominal Capacities

Model No.	Ambient Temperature: °C	R404A Capacity: Watts											R134a Capacity: Watts										
		Evaporating Temperature: °C											Evaporating Temperature: °C										
		-40	-35	-30	-25	-20	-15	-10	-5	0	5	7.5	-30	-25	-20	-15	-10	-5	0	5	10	12.5	
SHT4576ZHR	32			3979	5407	7026	8869	10932	13219	15898	18676	20136			3819	5090	6632	8469	10629	13108	15977	17514	
	35			3673	5011	6540	8347	10318	12504	14908	17530	19186			3592	4808	6296	8079	10209	12621	15359	16018	
	38			3369	4648	6101	7753	9610	11794	14102	16623	17956			3365	4543	5985	7717	9747	12081	14803	16262	
	43			2855	4023	5345	6845	8527	10394	12641	14960	16193			2996	4101	5459	7091	9010	11224	13824	15219	
SHT4590ZHR	32	2648	3683	4966	6462	8217	10238	12538	15256	18138	21275		3078	4129	5386	6876	8623	10667	13034	15788	18857	19900	
	35	2417	3419	4618	6030	7741	9662	11853	14302	17235	20258		2867	3905	5128	6576	8269	10274	12570	15194	18161	19816	
	38	2171	3154	4295	5640	7207	9008	11173	13510	16095	18926		2645	3683	4882	6291	7935	9854	12066	14654	17533	18304	
	43	1786	2600	3744	4967	6379	7999	9843	12080	14434	17020		2295	3312	4465	5807	7366	9183	11275	13718	16443	17230	
SHT4610ZHR	32			5898	7672	9732	12101	14786	17964	21344	25035				5327	6970	8944	11293	14035	17192	20836	22406	
	35			5496	7180	9120	11439	14004	16884	20072	23871				5063	6640	8542	10813	13505	16571	20038	20678	
	38			5123	6725	8570	10695	13104	15974	19031	22383				4800	6327	8168	10366	12929	15887	19323	20589	
	43			4487	5940	7611	9531	11715	14338	17135	20221				4354	5795	7528	9594	12016	14802	18071	19347	
SHT4612ZHR	32			6832	8793	11082	13701	16823	20177	23858	27853				6352	8265	10556	13234	16322	19897	23828	25005	
	35			6358	8217	10457	12955	15779	18929	22702	26552				6040	7893	10112	12741	15731	19129	22928	24917	
	38			5921	7699	9755	12097	14900	17910	21220	24812				5745	7546	9691	12201	15083	18436	22122	22949	
	43			5173	6796	8662	10780	13325	16053	19058	22351				5251	6956	8977	11336	14053	17220	20706	21543	
SHT4615ZHR	32			8044	10541	13459	16819	20621	25161	29942	35166		4464	6138	8233	10733	13691	17128	21063	25637	30644	32258	
	35			7420	9767	12627	15845	19491	23583	28505	33575		4127	5747	7747	10157	13019	16421	20259	24611	29486	32172	
	38			6858	9085	11697	14717	18367	22307	26675	31481		3779	5359	7297	9634	12407	15647	19365	23706	28475	29712	
	43			5909	7915	10277	13014	16147	19992	24038	28523		3236	4723	6542	8749	11363	14437	17969	22126	26695	28008	
SHT4620ZHR	32	5689	8293	11103	14230	17730	21839	26266	31166	37045	42986	46121	5979	8113	10619	13590	17072	21126	25886	31200	37169	37802	
	35	5084	7585	10311	13409	16768	20525	24694	29666	34813	40376	44163	5550	7633	10085	12972	16405	20344	24872	30006	35959	39098	
	38	4479	6939	9588	12479	15670	19401	23383	27776	33129	38499	41343	5124	7182	9585	12396	15679	19486	23958	28945	34549	37817	
	43	3250	5700	8332	11025	13960	17393	21014	25005				4412	6415	8731	11416	14528	18125	22361	27086	32403	32624	

Nominal Ratings at 10K Superheat and 3K Sub-Cooling

Semi-Hermetic Condensing Units



Bitzer

IS Series

The proven series of IS air cooled condensing units with Ecoline compressors are now available in a streamlined fully fitted standard range.

Features

- Robust construction with compact dimensions
- Comprehensive application range
- R134a and R404A refrigerants suitable for high, medium and low temperature applications

Inclusions

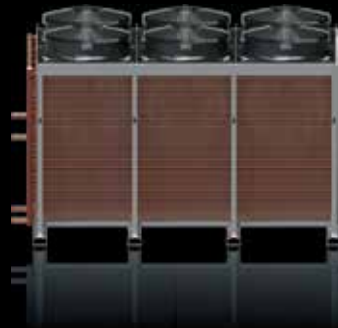
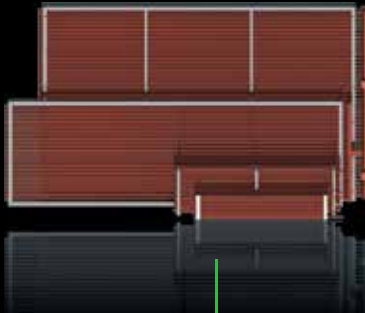
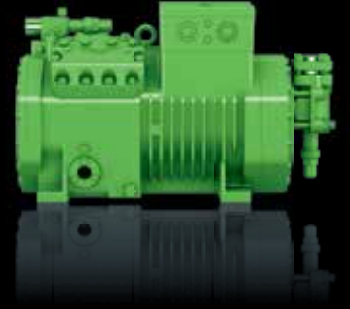
Bitzer semi-hermetic compressor, crankcase heater, vibration eliminator, condenser with sub-cooling circuit, liquid receiver, drier, sight glass, dual pressure control with flexible lines, electronic motor protection monitoring (SE-B1), condenser fan speed controller, a white IP rated electrical enclosure, electrical contactors, overloads, and isolation switch all pre-wired, internal float oil separator with flexible oil return line, suction accumulator and galvanized base plate. Standard power requirement is 415V/3ph/50Hz.

Cat. No.	Part No.	Model No.	Compressor Model No.	Condens. Model No.	Compressor		Fan/s		Condens. Air Flow: l/s	Receiver Capacity: kg		Connections		Overall Dimensions: mm			Weight: kg
					Elect. Supply: Volts/Ph./Hz	Max.Op. Current: Amps	Current: Amps	Input Power: kW		R134a	R404A	Suct.	Liqu.	Length	Width	Height	
2709434	U16-238A	2FES-3Y-IS3-4P	2FES-3Y	IS3-4P	380-420/3/50	6.1	1.1	0.25	1750	7.8	7	5⁄8"	1½"	1210	819	836	150
2709436	U16-270A	2DES-3Y-IS3-4P	2DES-3Y			8.6						7⁄8"					
2709438	U16-286A	2CES-4Y-IS3-4P	2CES-4Y			10											
2709440	U16-324A	4EES-6Y-IS5-4P	4EES-6Y	IS5-4P		13.6	2.2	0.49	3444			1 1⁄8"	5⁄8"	1700	900	833	167
2709442	U16-338A	4DES-7Y-IS5-4P	4DES-7Y			16.5											
2709444	U16-353A	4CES-9Y-IS5-4P	4CES-9Y			20.2											

Nominal Capacities

Model No.	Ambient Temperature: °C	R404A Capacity: Watts								R134a Capacity: Watts							
		Evaporating Temperature: °C								Evaporating Temperature: °C							
		-30	-25	-20	-15	-10	-5	0	5	-30	-25	-20	-15	-10	-5	0	10
2FES-3Y-IS3-4P	35	2086	2695	3395	4196	5104	6125	7265	8526	982	1389	1870	2439	3105	3879	4769	5783
	38	1955	2534	3198	3958	4819	5788	6871	8071	911	1308	1774	2323	2966	3711	4570	5548
	40	1868	2428	3069	3801	4631	5566	6611	7771	865	1255	1712	2248	2875	3602	4439	5394
	43	1741	2272	2878	3569	4353	5237	6226	7325	798	1178	1621	2138	2741	3441	4247	5166
2DES-3Y-IS3-4P	35	3210	4103	5117	6262	7545	8970	10540	12255	1409	1993	2690	3515	4483	5604	6890	8346
	38	3020	3871	4835	5922	7140	8493	9986	11619	1322	1892	2567	3365	4298	5380	6619	8024
	40	2892	3715	4645	5693	6867	8173	9614	11193	1265	1825	2486	3265	4176	5231	6440	7810
	43	2698	3478	4358	5347	6456	7690	9054	10550	1180	1726	2366	3118	3994	5009	6172	7491
2CES-4Y-IS3-4P	35	3982	5037	6225	7554	9030	10656	12431	14354	1790	2495	3332	4318	5467	6792	8300	9998
	38	3758	4762	5890	7150	8549	10091	11776	13604	1692	2380	3191	4144	5243	6530	7984	9621
	40	3606	4576	5664	6878	8226	9711	11336	13101	1626	2303	3098	4029	5111	6356	7774	9371
	43	3376	4295	5322	6466	7737	9138	10674	12343	1529	2189	2960	3858	4899	6097	7460	8997
4EES-6Y-IS5-4P	35	5412	6889	8605	10580	12829	15364	18194	21322	2686	3628	4761	6113	7711	9575	11726	14178
	38	5121	6527	8156	10028	12161	14568	17258	20237	2527	3448	4548	5856	7398	9196	11271	13637
	40	4926	6284	7853	9657	11713	14034	16631	19510	2421	3328	4406	5685	7190	8945	10968	13277
	43	4630	5915	7397	9098	11038	13231	15688	18418	2262	3148	4194	5430	6880	8569	10516	12739
4DES-7Y-IS5-4P	35	6544	8272	10267	12549	15135	18036	21260	24809	2944	4022	5339	6931	8826	11051	13626	16565
	38	6202	7848	9743	11911	14370	17132	20204	23592	2765	3819	5096	6633	8459	10601	13080	15910
	40	5973	7563	9392	11484	13858	16526	19498	22780	2644	3682	4934	6434	8214	10301	12716	15475
	43	5628	7134	8863	10841	13087	15615	18436	21557	2460	3476	4688	6135	7847	9851	12171	14823
4CES-9Y-IS5-4P	35	7692	9734	12077	14744	17752	21111	24828	28901	3736	5040	6623	8523	10772	13396	16411	19829
	38	7269	9215	11446	13986	16855	20062	23617	27519	3530	4805	6341	8176	10343	12686	15769	19060
	40	6988	8870	11026	13482	16257	19363	22810	26598	3390	4647	6152	7944	10056	12516	15342	18548
	43	6569	8353	10397	12726	15360	18315	21599	25216	3179	4408	5867	7594	9626	11988	14702	17783

Capacities based on 20°C return vapour and 5K sub-cooling. Actrol Sales & Application Engineers are available to provide selection advice.



PRECISION ENGINEERING IS AT THE HEART OF OUR OFF-THE-SHELF AND CUSTOMISED SOLUTIONS

BITZER Australia supplies a range of refrigeration equipment including condensing units, natural refrigerant systems and multiple compressor racks, pressure vessels, controls, and the BUFFALO TRIDENT range of heat exchangers. Whatever your requirements are, BITZER can supply a precision engineered solution for your next project.

For more information, speak to your local Actrol team.



THE HEART OF FRESHNESS

Semi-Hermetic Condensing Units



Bitzer

IS Series

The Bitzer IS series indoor condensing units feature the latest Octagon semi-hermetic compressors. Standard power requirement is 415V/3ph/50Hz.

Cat. No.	Part No.	Model No.	Compressor					Condenser				Connections		Weight: kg	Receiver Pump Down: R404A kg
			Series	Nom. HP	Max Current: Amps	Max Power Consumption: kW	Heater: Watts 240/1/50	Number of Fans: 240/1/50	Fan Total Amps	Fan Total kW	Air flow: l/s	Suct.	Liq.		
2709391	U16-201	2KC-05.2Y-IS1-4P	C1	0.5	2.7	1.5	60	1x350mm	0.60	0.14	760	5/8"	3/8"	104	3.8
2709392	U16-200	2JC-07.2Y-IS1-4P		0.7	3.5	1.9									
2709373	U16-202	2HC-1.2Y-IS1-4P		1		2.0									
2709374	U16-210	2HC-2.2Y-IS1-4P		2	4.3	2.4									
2709375	U16-218	2GC-2.2Y-IS1-4P			4.7	2.7									
2709393	U16-220	2GC-2.2Y-IS2-4P													
2709394	U16-219	2GC-2.2Y-IS2-6P		1x450mm				1.10	0.25	1170	7/8"	127			
2709376	U16-226	2FC-2.2Y-IS1-4P			0.79	0.16		870							
2709377	U16-235	2FC-3.2Y-IS2-6P		3	4.9	2.8		1x350mm	0.60	0.14	760	5/8"	104		
2709395	U16-237	2FC-3.2Y-IS3-6P						1x450mm	0.79	0.16	870	7/8"		127	
2709396	U16-242	2EC-2.2Y-IS1-4P	2				5.7				3.3	1x350mm	0.60	0.14	760
2709378	U16-243	2EC-2.2Y-IS2-6P		3	6.9	4.0		0.79	0.16	870		7/8"	3/8"	127	
2709379	U16-251	2EC-3.2Y-IS2-6P	1.10				0.25				1330				1 1/8"
2709397	U16-254	2EC-3.2Y-IS3-4P	2	2DC-2.2Y-IS2-6P	3.9	0.79	0.16	870	7/8"	3/8"	127	3.8			
2709380	U16-259	2DC-2.2Y-IS2-6P													
2709381	U16-268	2DC-3.2Y-IS2-4P	3	7.8	4.5	1x450mm	1.10	0.25	1170	1 1/8"	1/2"	160	7.0		
2709398	U16-270	2DC-3.2Y-IS3-4P													
2709399	U16-275	2CC-3.2Y-IS2-6P													
2709382	U16-276	2CC-3.2Y-IS2-4P													
2709411	U16-277	2CC-3.2Y-IS3-6P		8.5	5.0		0.79	0.16	1000	1330	7/8"	3/8"	127	3.8	
2709412	U16-278	2CC-3.2Y-IS3-4P													
2709383	U16-286	2CC-4.2Y-IS3-4P													
2709413	U16-290	2CC-4.2Y-IS4.3-4P													
2709384	U16-293	4FC-3.2Y-IS3-6P	C2	3	9.2	5.4	2x450mm	2.20	0.49	3100	5/8"	178			
2709403	U16-294	4FC-3.2Y-IS3-4P													
2709404	U16-301	4FC-5.2Y-IS3-6P													
2709385	U16-302	4FC-5.2Y-IS3-4P													
2709405	U16-305	4FC-5.2Y-IS4.3-6P		5	10.8	6.2	2x450mm	1.58	0.32	2350	2900	5/8"	178		
2709406	U16-306	4FC-5.2Y-IS4.3-4P													
2709414	U16-308	4EC-4.2Y-IS3-6P													
2709386	U16-309	4EC-4.2Y-IS3-4P													
2709415	U16-324	4EC-6.2Y-IS5-4P		C3	4	10.7	6.4	1x450mm	0.79	0.16	1000	1 1/8"	1/2"	160	7.0
2709387	U16-322	4EC-6.2Y-IS4.3-4P													
2709416	U16-326	4DC-5.2Y-IS3-4P													
2709388	U16-331	4DC-5.2Y-IS5-6P													
2709407	U16-332	4DC-5.2Y-IS5-4P	6		13.2	7.9	2x450mm	2.20	0.49	2900	3100	5/8"	178		
2709417	U16-347	4CC-6.2Y-IS5-6P													
2709389	U16-338	4DC-7.2Y-IS5-4P													
2709418	U16-346	4CC-6.2Y-IS4.3-4P													
2709408	U16-348	4CC-6.2Y-IS5-4P	6		15.9	9.1	2x450mm	2.20	0.49	2900	3100	5/8"	178		
2709409	U16-353	4CC-9.2Y-IS5-4P													

Actrol Sales & Application engineers are available to provide selection advice.

Semi-Hermetic Condensing Units



Bitzer

IS Series

Bitzer IS series condensing units are supplied standard with the following inclusions:

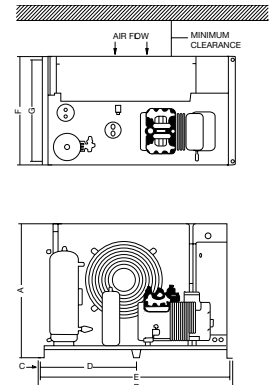
Bitzer Octagon semi-hermetic compressor, powder coated base plate and panels and condenser fitted with dedicated sub-cooling circuit. Also fitted are an internal float oil separator, liquid receiver, drier, sight glass, receiver valves, discharge line vibration eliminator, dual pressure control with flexible lines, crankcase heater, electronic motor protection monitoring (SE-B1) and BSE32 oil charge.

Accessories

Cat. No.	Part No.	Description	Suits Model
2709463	U10-265	Electrical Wiring & Panel Set Fitted	IS1
2709464	U10-266		IS2
2709465	U10-267		IS3
2709466	U10-268		IS4.3/IS5
2711819	U10-269		IS4.3/IS5 (4CC-9.2Y)
2711821	U10-870	Electrical Panel Set Only Fitted	IS1/IS2
2711822	U10-871		IS3/IS4.3/IS5
2710768	B37-011	Oil Separator with Reservoir	IS3 to IS5
2709467	U51-008A	Oil Separator Fitting Charge	
2708133	U40-096	Oil Return Sight Glass Fitted	
2709474	U40-097	Oil Level Control Fitted	Octagon Compressors
2710769	U40-098	Oil Level Monitoring Digital c/w Transformer Fitted	
2710770	U40-098E	Oil Level Monitoring c/w Transformer & Wiring Fitted	
2709481	B43-304	Suction Accumulator	5/8"
2709482	B43-300		7/8"
2709483	B43-301		1 1/8"
2709468	U51-009	Suction Accumulator Fitting Charge	
2707426	U40-092	LP Control Auto Reset Fitted	
2707427	U40-093	HP Control Auto Reset Fitted	
2707428	U40-094	HP Control Manual Reset Fitted	
2707429	U40-090	HP Fan Cycling Control Fitted	
2707430	U40-104	Fan Speed Control Fitted	
2709478	K01-150	Three Phase Protection Monitoring Module Fitted when ordered with unit with Electrical Wiring Fitted	
2709469	U40-040	Liquid Line Solenoid Valve Fitted	3/8"
2709470	U40-041		1/2"
2709471	U40-042		5/8"
2712183	U40-021	Liquid Line Ball Valve Fitted	3/8"
2712184	U40-022		1/2"
2712185	U40-023		5/8"
2709475	347600-01	Capacity Control Solenoid Valve Assembly Fitted	C3 Compressors
2708331	343309-02	Capacity Control Solenoid Coil Only 240 Volt 50 Hz	

Dimensions

Model No.	Dimensions: mm							Sound Data dB(A)		
	A	B	C	D	E	F	G	Min. Clearance	Speed Controlled	High Speed
IS1-4P	705	1073	15	N/A	1040	680	630	150	53.0	57.3
IS2-4P									53.7	55.4
IS2-6P									200	57.0
IS3-4P	860	1178		570	1148			150	53.7	55.4
IS3-6P								200	57.0	60.0
IS4.3-6P									51.5	55.2
IS4.3-4P		1578	780	1548	250				60.3	63.3
IS5-4P					200			51.5	55.2	
IS5-6P					250			60.3	63.3	





Packaged Condensing Units

Acpac

Hermetic Reciprocating - R404A & R507

The Acpac Series of Packaged Condensing Units provide a high quality professional solution for all commercial refrigeration applications. Acpac has been designed in Australia to operate efficiently in both the hot and cold temperature extremes of the Australian environment. Acpac will appeal aesthetically whether installed in the rugged Australian outback or the most architecturally designed buildings.

Features

- Easy and cost effective installation
- Robust powder coated enclosure
- Tecumseh L'Unite Hermetique compressors
- Low operating cost
- Condenser coil protection
- Oil Separator on all models
- Fully wired
- Designed for R404A and R507 refrigerants
- Suitable for ambient temperatures up to 46°C
- Condenser fan control for stable operation
- Easy access to all serviceable components
- Suction Accumulator on low temperature models



Cat. No.	Model No.	Compressor			Fan				Liquid Receiver Capacity kg @ 80%	Connections		Nett Weight kg	Sound Power* Level dBA
		Model No.	MOC Amps	Volts Phase	No. Dia: mm	MOC Amps	Air Flow l/s	Volts Phase		Suct.	Liq.		

Medium Temperature

2709753	AP1.7M1-4	CAJ9480Z	4.1	240/1	1 x 350	0.65	399	240/1	2.3	1½"	3⁄8"	68	62
2709754	AP2.1M1-4	CAJ9510Z	5.2							70		63	
2709755	AP2.5M1-4	CAJ9513Z	6.4									64	
2709756	AP2.8M1-4	CAJ4517Z	7.1							71		65	
2709757	AP3.9M1-4	CAJ4519Z	9.9				68						
2709758	AP4.1M1-4	FH4524Z	10.3				778		3.9	81		70	
2709759	AP5.7M2-4	TFH4531Z	6.5	415/3	2 x 350	2 x 0.65	856	6.0	7⁄8"	1½"	105	69	
2709760	AP7.8M2-4	TFH4540Z	8.9				1459				118	75	
2709761	AP8.8M2-4	TAG4553Z	9.8				1402	9.5			146	78	
2709762	AP10.7M2-4	TAG4561Z	11.4								148		
2709763	AP13.1M2-4	TAG4573Z	14.3								150	77	

Low Temperature

2709770	AP1.9L1-4	CAJ2464Z	7.8	240/1	1 x 350	0.65	399	240/1	2.3	5/8"	3/8"	73	67
2709771	AP2.9L1-4	FH2480Z	11.5				778		3.9			90	69
2709772	AP3.3L2-4	TFH2511Z	5.1	415/3	2 x 350	2 x 0.65	856		6.0			130	72
2709773	AP4.8L2-4	TAG2516Z	7.3				1459			7/8"	1/2"	155	71
2709774	AP6.2L2-4	TAG2522Z	9.4				1402		9.5			175	76

* Subtract 17dBA to convert to sound pressure at 3m distance.



Packaged Condensing Units

Acpac

Semi Hermetic Reciprocating - R134a, R404A & R507



The Acpac Semi Hermetic Series of Packaged Condensing Units provide a high quality professional solution for all commercial refrigeration applications. Acpac has been designed in Australia to operate efficiently in both the hot and cold temperature extremes of the Australian environment. Acpac will appeal aesthetically whether installed in the rugged Australian outback or the most architecturally designed buildings.



Features

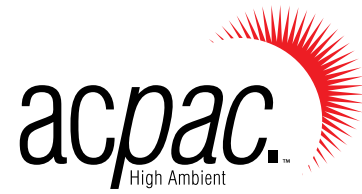
- Easy and cost effective installation
- Robust powder coated galvanized enclosure
- Bitzer Octagon Semi Hermetic compressors
- Low operating cost
- Oil Separator on all models
- Epoxy coated coil protection
- Fully wired
- Designed for R404A and R507 refrigerants
- Suitable for ambient temperatures up to 46°C
- Condenser fan control for stable operation
- Easy access to all serviceable components
- Suction Accumulator on low temperature models 2000 hour salt spray tested

Cat. No	Model No.	Compressor			Fans			Liquid Receiver Capacity kg @ 80%	Connections		Nett Weight kg	Sound Power* Level dBA	
		Model No.	MOC Amps	Volts/ Ph.	No. Dia: mm	MOC Amps	Volts/ Ph.		Suct.	Liq.			
2701982	APS4.6ML2-1	SH4526ZYZ	4.5	415/3/ DOL	2 x 350	2 x 0.65	240/1	6.0	5/8	3/8	161	65	
2701983	APS6.0ML2-1	SH4536ZYZ	6.7								168	67	
2701984	APS8.3ML2-1	SH4550ZYZ	8.8			180		67					
2701985	APS11.7ML3-1	SH4567ZYZ	12.5			3 x 0.65		9.5	7/8	1/2	195	70	
2701986	APS14.4ML3-1	SH4591ZYZ	12.7		240						70		
2701987	APS19.0ML2-1	SH4610ZYZ	17.6		415/3/ PWS	2 x 500		2 x 3.3	415/3	18.0	1 1/8	5/8	290
2701988	APS25.8ML2-1	SH4615ZMZ	22.4	1 3/8			340				75		
2701989	APS33.6ML2-1	SH4620ZMZ	32.4				386				77		
2702251	APS39.5ML2-1	SH4623ZMZ	35.3	2 x 710		2 x 1.5	415/3	25.0		2 1/8	1 1/8	605	78
2702252	APS46.5ML2-1	SH4627ZMZ	43.5									615	78
2702253	APS56.4ML2-1	SH4632ZMZ	49.2									650	81
2702254	APS64.2ML2-1	SH4639ZMZ	61.0									670	82
2709801	APB4.9ML2-4	2GES-2Y	5	415/3	2 x 350	2 x 0.37	240/1	6.0	5/8"	3/8"	170	68	
2709802	APB6.0ML2-4	2FES-3Y	6.1						175		68		
2709803	APB8.5ML2-4	2DES-3Y	8.6						200		69		
2709804	APB11.5ML3-4	4FES-5Y	10.8		3 x 350	3 x 0.37		9.5	7/8"	1/2"	230	71	
2709805	APB15.8ML3-4	4DES-7Y	16.5								250	72	
2709806	APB20.8ML2-4	4CES-9Y	20.2		2 x 500	2 x 3.3		12	1 1/8"	5/8"	290	79	
2709807	APB25.8ML2-4	4TES-12Y	25.1						350		79		
2709808	APB29.6ML2-4	4PES-15Y	28.2						360		79		
2709809	APB36.7ML2-4	4NES-20Y	33.2						390		80		

* Subtract 17dBA to convert to sound pressure at 3m distance.

Packaged Condensing Units

ACPAC



Acpac packaged condensing units offer a complete refrigeration solution.

The Acpac range is designed in Australia to provide a robust energy efficient, fully fitted packaged range with world leading hermeticlaly sealed reciprocating, scroll and semi hermetic reciprocating compressors.

Acpac uses premium compressors and large condensers in combination to ensure reliable refrigeration when you need it most. This is the Acpac packaged advantage.

Applications are divers and include commercial food, beverage cooling, and freezing in supermarkets, as well as refrigeration applications in convenience stores, pubs and clubs, restaurants, cafés, food processors and many more.

Installation is quick and easy as every Acpac is fully optioned straight out of the box.

All Acpac units include condenser fan controls and epoxy coated condenser fins to ensure superv energy efficient performance in Australia's diverse weather conditions.

Acpac packaged condensing units are a perfect solution for your customers' refrigeration requirements.

Standard Features

- World leading compressors
- Large epoxy finned condenser/s
- Oil separator
- Suction Accumulator on most models
- Liquid Receiver
- Comprehensive electrical board fully wired to all electrical components
- Saftey controls offering substantial protection
- Condenser fan control provides stable operation in Australia's diverse weather conditions
- Copper tails for easy connections
- Galvanized powder coated encolsures not only protect the unit but provide a good looking professional finish every time
- Easy to read wiring diagram is permanently attached to inside panel for quick service
- Seperate compressor and fan compartements for safe and easy maintenance
- Easy access to all serviceable components



Packaged Condensing Units

Acpac

Scroll - R404A & R507

The Acpac Scroll Series of Packaged Condensing Units provide a high quality professional solution for all commercial refrigeration applications. Acpac Scroll has been designed in Australia to operate efficiently in both the hot and cold temperature extremes of the Australian environment. Acpac Scroll will appeal aesthetically whether installed in the rugged Australian outback or the most architecturally designed buildings.

Features

- Easy and cost effective installation
- Robust powder coated enclosure
- Copeland scroll compressors
- Low operating cost
- Condenser coil protection
- Oil Separator on all models
- Anti short cycle timer
- Fully wired
- Designed for R404A and R507 refrigerants
- Suitable for ambient temperatures up to 46°C
 - Condenser fan speed control for stable operation
- Easy access to all serviceable components
- Suction Accumulator on all models

Electronic Overload protects for

- Over current
- Locked Rotor
- Phase Reversal
- Phase Loss
- Phase Unbalance

Cat. No.	Model No.	Compressor			Fan(s)			Liquid Receiver Capacity kg @80%	Connections		Nett Weight kg	Sound Power* Level dBA
		Model No.	MOC Amps	Volts/Phase	No. Diam. mm	MOC Amps	Volts/Phase		Suct	Liq		

Medium Temperature

2709777	APC4.6M1-4	ZB15KQE	16	240/1	1 x 350	1 x 0.65	240/1	3.9	5/8"	3/8"	70	66	
2709778	APC5.7M2-4	ZB19KQE	6		2 x 350	2 x 0.65		6.0			131	68	
2709779	APC7.9M2-4	ZB26KQE	10					133			69		
2709780	APC11.5M3-4	ZB38KQE	12.5		3 x 350	3 x 0.65		9.5	7/8"	1/2"	163	70	
2709782	APC14.4M3-4	ZB48KQE	17					167	73				
2709783	APC18.3M2-4	ZB58KQE	23		415/3	2 x 500		2 x 3.3	12	1 1/8"	5/8"	241	77
2709784	APC20.3M2-4	ZB66KQE	24.2									242	77
2709785	APC24.7M2-4	ZB76KQE	26.9									245	78
2709786	APC29.7M2-4	ZB95KQE	27.8									305	82
2709787	APC34.9M2-4	ZB114KQE	31.4	314			83						

Low Temperature

2709788	APC3.4L2-4	ZF09K4E-TFD	6	415/3	2 x 350	2 x 0.65	240/1	6.0	5/8"	3/8"	131	70
2709790	APC4.9L2-4	ZF13K4E-TFD	8								138	73
2709791	APC5.9L2-4	ZF15K4E-TFD	10								142	73
2709792	APC7.3L3-4	ZF18K4E-TFD	12.5		3 x 350	3 x 0.65		9.5	7/8"	1/2"	163	74
2709793	APC9.2L2-4	ZF24K4E-TFD	16.1					2 x 500	2 x 3.3	12	1 1/8"	5/8"
2709794	APC12.5L2-4	ZF33K4E-TFD	22.3		245	82						
2709795	APC15.0L2-4	ZF40K4E-TFD	25.1		300	82						
2709796	APC18.7L2-4	ZF48K4E-TFD	28.7		314	82						

* Subtract 17dBA to convert to sound pressure at 3m distance.



Packaged Condensing Units

Acpac

Refrigeration Capacities: Watts - R404A & R507

Hermetic Reciprocating - Medium Temperature Applications

Model No.	Ambient Temp. °C	Saturated Suction Temperature: °C						
		-15	-10	-5	0	5	10	15
AP1.7M1-4	32	1229	1521	1785	2118	2452	2796	3141
	35	1162	1417	1696	1995	2309	2666	2997
	38	1087	1329	1591	1931	2194	2502	2808
	43	973	1195	1436	1848	1985	2264	2539
AP2.1M1-4	32	1482	1796	2156	2517	2882	3235	3633
	35	1406	1706	2031	2370	2747	3087	3402
	38	1318	1617	1927	2250	2573	2885	3241
	43	1183	1441	1739	2032	2322	2601	2924
AP2.5M1-4	32	1680	2107	2536	2978	3500	3960	4392
	35	1589	1970	2412	2843	3278	3792	4217
	38	1476	1865	2254	2655	3125	3537	3920
	43	1319	1675	2032	2398	2823	3196	3540
AP2.8M1-4	32	2019	2428	2870	3383	3843	4272	4797
	35	1896	2280	2735	3168	3591	4092	4457
	38	1796	2161	2555	3015	3422	3797	4271
	43	1613	1942	2297	2719	3084	3417	3697
AP3.9M1-4	32	2527	3103	3761	4444	5168	5926	6831
	35	2392	2944	3541	4180	4923	5646	6390
	38	2236	2759	3355	3963	4603	5371	6086
	43	1994	2473	3017	3565	4139	4734	5485
AP4.1M1-4	32	2767	3506	4266	5077	6038	6936	7840
	35	2598	3269	3987	4827	5639	6470	7515
	38	2394	3075	3763	4489	5361	6163	6964
	43	2085	2720	3351	4010	4688	5544	6274
AP5.7M2-4	32	3957	4836	5741	6782	7669	8479	9458
	35	3647	4483	5454	6324	7298	8122	8796
	38	3412	4222	5051	6012	6777	7534	8424
	43	2969	3725	4652	5393	6091	6778	-
AP7.8M2-4	32	5766	6720	7796	8946	10305	11484	12573
	35	5324	6244	7401	8516	9650	10746	12042
	38	4982	5876	6876	7933	9184	10243	11204
	43	4240	5189	6127	7110	8087	9243	10103
AP8.8M2-4	32	5873	7243	8786	10634	12284	14228	15622
	35	5420	6719	8349	9915	11762	13241	14478
	38	5073	6328	7736	9432	10916	12691	13907
	43	4313	5585	6886	8467	9823	11029	-
AP10.7M2-4	32	7260	8852	10575	12696	14663	16539	18783
	35	6823	8220	10046	11860	13692	15858	17466
	38	6387	7740	9322	11276	13053	14723	16758
	43	5437	6835	8306	9876	11762	13272	-
AP13.1M2-4	32	9210	10757	12848	14784	17189	19017	20502
	35	8455	10194	11923	14131	15978	17623	19790
	38	7930	9367	11314	13075	14767	16902	-
	43	6897	8246	9765	11712	13252	-	-

Capacities based on 18°C return vapour and 3 K sub-cooling.



Packaged Condensing Units

Acpac

Refrigeration Capacities: Watts - R404A & R507

Hermetic Reciprocating - Low Temperature Applications

Model No.	Ambient Temp. °C	Saturated Suction Temperature: °C						
		-40	-35	-30	-23.3	-20	-15	-10
AP1.9L1-4	32	912	1200	1531	1963	2078	2252	2675
	35	851	1125	1448	1861	1972	2139	2545
	38	795	1057	1355	1757	1855	2003	2381
	43	692	939	1213	1567	1660	1802	2146
AP2.9L1-4	32	857	1271	1741	2467	2852	3518	4209
	35	755	1158	1613	2327	2697	3307	4007
	38	593	1056	1496	2174	2543	3128	3754
	43	-	875	1289	1911	2236	2804	3378
AP3.3L2-4	32	1730	2032	2503	3390	3910	4743	5617
	35	1556	1892	2346	3178	3642	4497	5338
	38	1413	1708	2146	2986	3431	4177	4952
	43	1148	1437	1853	2606	3046	3728	4432
AP4.8L2-4	32	2100	2634	3406	4792	5590	6865	8212
	35	1900	2418	3194	4494	5211	6404	7792
	38	1726	2224	2929	4184	4907	6050	7241
	43	1403	1875	2532	3689	4355	5399	6482
AP6.2L2-4	32	2970	3567	4455	6088	7037	8563	10179
	35	2678	3267	4177	5710	6562	7992	9667
	38	2430	3004	3828	5316	6180	7549	8987
	43	1973	2529	3307	4687	5485	6739	8046

Capacities based on 18°C return vapour and 3 K sub-cooling.



Packaged Condensing Units

Acpac

Refrigeration Capacities: Watts - R404A

Semi Hermetic Reciprocating - Tecumseh - Medium & Low Temperature Applications

Model No.	Ambient Temp. °C	Saturated Suction Temperature: °C									
		-40	-35	-30	-25	-20	-15	-10	-5	0	5
APS4.6ML2-1	32	708	998	1361	1803	2358	3000	3746	4598	5566	6711
	35	656	928	1270	1690	2202	2802	3512	4349	5286	6333
	38	602	856	1178	1576	2059	2629	3302	4073	4962	6017
	43	513	739	1018	1383	1818	2332	2941	3653	4467	5457
APS6.0ML2-1	32	1049	1436	1935	2518	3204	4006	4921	6004	7168	8452
	35	974	1349	1809	2356	3006	3785	4657	5644	6748	8058
	38	899	1263	1692	2209	2825	3539	4357	5339	6399	7572
	43		1116	1500	1967	2522	3169	3904	4803	5778	6869
APS8.3ML2-1	32			2610	3455	4424	5530	6787	8266	9841	11561
	35			2418	3221	4165	5220	6421	7756	9235	11013
	38			2245	3014	3889	4878	6054	7338	8757	10311
	43			1960	2665	3460	4361	5374	6596	7887	9318
APS11.7ML3-1	32			4349	5502	6797	8252	9863	11702	13627	15680
	35			4139	5232	6481	7868	9399	11066	12996	14957
	38			3942	4983	6145	7448	8936	10519	12228	14051
	43			3625	4573	5623	6795	8125	9550	11079	12717
APS14.4ML3-1	32	2591	3621	4840	6268	7925	9901	12041	14388	17218	20003
	35	2364	3339	4492	5885	7462	9247	11243	13647	16078	18671
	38	2139	3078	4178	5459	6928	8698	10598	12687	15250	17755
	43			3637	4798	6120	7718	9427	11304		
APS19.0ML2-1	32			6618	8502	10674	13148	15923	19004	22559	26279
	35			6246	8052	10110	12510	15158	18099	21329	24827
	38			5893	7621	9585	11808	14306	17067	20278	23625
	43			5289	6876	8677	10699	12959	15467	18396	21447
APS25.8ML2-1	32			8859	11449	14415	17748	21667	25792	30248	35516
	35			8265	10711	13631	16829	20383	24274	28870	33464
	38			7731	10067	12743	15761	19318	23059	27106	31939
	43			6819	8948	11388	14144	17418	20849	24570	28539
APS33.6ML2-1	32	6612	9486	12548	15915	19642	23773	28523	33604	39133	45642
	35	5983	8802	11810	15136	18726	22687	27047	32113	37399	43092
	38	5350	8159	11112	14272	17706	21605	25764	30319	35251	41135
	43			9899	12894	16090	19545	23489	27616	32083	37202
APS39.5ML2-1	32	7003	9823	13236	17186	21774	27019	32936	39541	47215	55264
	35	6421	9145	12366	16130	20484	25610	31270	37591	44569	52174
	38	5815	8470	11551	15146	19297	24032	29380	35656	42338	49632
	43	4863	7328	10171	13461	17250	21565	26433	31876	38324	45019
APS46.5ML2-1	32	7886	11059	14959	19523	24866	31036	38062	46465	55390	65161
	35	7188	10234	13879	18191	23408	29316	36058	43639	52782	62291
	38	6456	9414	12892	16997	21800	27354	34059	41356	49506	58505
	43			11223	14957	19326	24381	30169	37250	44794	53198
APS56.4ML2-1	32	9907	13711	18403	23910	30360	37806	46284	56364	67137	78991
	35	9120	12762	17143	22344	28434	35767	43909	53088	63309	75555
	38	8304	11820	15991	20943	26745	33469	41143	50365	60246	71193
	43	7071	9743	14068	18562	23835	29964	36991	45562	54679	64928
APS64.2ML2-1	32	12832	18006	23743	30185	37380	45351	54524	64190	74569	86701
	35	11622	16668	22249	28591	35509	43163	51536	61182	71192	81817
	38	10405	15397	20850	26851	33451	40984	49030	57750	67082	78068
			12054	18479	24175	30360	37054	44752	52779	61354	



Requires additional fan compressor cooling.

Capacities based on 20°C return vapour and 0 K sub cooling.



Packaged Condensing Units

Acpac

Refrigeration Capacities - Watts R134a

Semi Hermetic Reciprocating - Tecumseh - Medium & Low Temperature Applications

Model No.	Ambient Temp. °C	Saturated Suction Temperature: °C									
		-30	-25	-20	-15	-10	-5	0	5	10	12.5
APS4.6ML2-1	32	701	988	1331	1743	2221	2788	3435	4178	5016	5253
	35	649	929	1267	1662	2125	2674	3303	4016	4846	5218
	38	595	869	1201	1582	2035	2568	3177	3876	4666	4822
	43	515	780	1093	1464	1888	2393	2968	3629	4378	4524
	46	468	728	1035	1386	1798	2285	2842	3484	4211	4499
APS6.0ML2-1	32	1098	1488	1980	2566	3262	4065	4981	6001	7174	7680
	35	1028	1411	1882	2446	3118	3901	4789	5779	6886	7052
	38	956	1336	1786	2335	2982	3727	4579	5557	6624	7008
	43		1200	1631	2148	2754	3454	4251	5147	6173	6558
	46		1116	1535	2028	2616	3297	4062	4928	5891	
APS8.3ML2-1	32			2599	3350	4265	5348	6604	8031	9682	10292
	35			2461	3188	4067	5123	6339	7724	9274	9416
	38			2330	3033	3878	4883	6045	7417	8919	9370
	43			2109	2766	3558	4503	5591	6877	8296	8758
	46			1977	2604	3360	4283	5332	6535	7888	7882
APS11.7ML3-1	32	2055	2861	3830	4950	6267	7790	9529	11514	13784	14584
	35	1885	2685	3620	4716	5991	7490	9179	11100	13238	13408
	38	1705	2509	3424	4493	5734	7160	8795	10689	12762	13360
	43	1406	2200	3094	4112	5289	6638	8174	9963	11924	12540
	46	1235	2008	2884	3878	5029	6337	7821	9501	11378	11352
APS14.4ML3-1	32			3803	5009	6477	8203	10206	12533	15077	15747
	35			3575	4745	6159	7859	9803	11999	14453	15715
	38			3364	4499	5866	7481	9353	11531	13917	14359
	43			3009	4078	5362	6886	8642	10708	12962	13427
	46			2793	3814	5072	6544	8242	10168	12507	13418
APS19.0ML2-1	32			5407	7018	8992	11304	14003	17099	20605	21116
	35			5156	6718	8614	10848	13451	16480	19878	20968
	38			4907	6419	8250	10408	12921	15808	19080	20847
	43			4477	5912	7629	9658	12024	14732	17812	19570
	46			4219	5600	7245	9196	11502	14109	17078	17806
APS25.8ML2-1	32	4539	6199	8267	10702	13561	16858	20600	24918	29592	30819
	35	4213	5826	7799	10156	12919	16178	19821	23910	28434	30758
	38	3871	5456	7367	9655	12337	15428	18951	23024	27434	28274
	43	3349	4841	6644	8804	11337	14266	17596	21472	25669	26583
	46	3059	4475	6206	8276	10764	13603	16833	20470	24679	26535
APS33.6ML2-1	32	6160	8282	10810	13770	17226	21241	25840	31166	37043	40222
	35	5744	7847	10312	13188	16584	20480	24937	29984	35645	38897
	38	5306	7414	9836	12638	15900	19658	23953	28922	34407	37367
	43	4608	6677	9020	11701	14791	18340	22377	27070	32228	35013
	46		6221	8510	11119	14142	17572	21470	25876	30990	33682
APS39.5ML2-1	32	7076	9461	12313	15704	19683	24328	29693	35829	42767	46550
	35	6606	8974	11775	15068	18927	23428	28676	34623	41351	45020
	38	6120	8470	11237	14455	18204	22569	27590	33321	39938	43494
	43	5336	7657	10328	13410	16973	21098	25835	31237	37348	40833
	46	4873	7172	9770	12762	16205	20231	24806	30020	35918	39135
APS46.5ML2-1	32	7076	9461	12313	15704	19683	24328	29693	35829	42767	46550
	35	6606	8974	11775	15068	18927	23428	28676	34623	41351	45020
	38	6120	8470	11237	14455	18204	22569	27590	33321	39938	43494
	43	5336	7657	10328	13410	16973	21098	25835	31237	37348	40833
	46	4873	7172	9770	12762	16205	20231	24806	30020	35918	39135
APS56.4ML2-1	32	8975	12324	16400	21318	27051	33678	41219	49711	59404	64521
	35	8386	11650	15614	20340	25875	32274	39680	47919	57100	62037
	38	7774	10978	14831	19412	24772	30965	38018	45951	55042	59838
	43	6787	9828	13510	17838	22897	28729	35381	42864	51458	55995
	46	6220	9173	12700	16872	21733	27433	33859	41093	49166	53523
APS64.2ML2-1	32	12398	16473	21397	27181	33962	41816	50801	61152	72535	78666
	35	11580	15626	20413	26047	32702	40321	49019	58830	69775	76034
	38	10722	14779	19477	24971	31352	38707	47244	56736	67319	73016
	43	9325	13325	17878	23135	29185	36123	43994	53086	63017	68368
	46	8509	12425	16882	21989	27921	34621	42210	50740	58878	65742

Requires additional fan compressor cooling.

Capacities based on 20°C return vapour and 0 K sub cooling.



Packaged Condensing Units

Acpac

Refrigeration Capacities: Watts - R404A

Semi Hermetic Reciprocating - Bitzer- Medium & Low Temperature Applications

Model No.	Ambient Temp. °C	Saturated Suction Temperature: °C									
		-40	-35	-30	-25	-20	-15	-10	-5	0	5
APB4.9ML2-4	32	931	1288	1707	2200	2758	3394	4111	4913	5802	6840
	35	858	1201	1601	2065	2596	3199	3902	4670	5521	6458
	38	783	1114	1496	1939	2447	3024	3673	4398	5241	6135
	43	666	965	1321	1728	2194	2723	3317	3980	4710	5563
APB6.0ML2-4	32	1191	1625	2142	2732	3407	4172	5028	5979	7085	8241
	35	1096	1514	2002	2564	3206	3956	4777	5686	6685	7855
	38	997	1404	1872	2409	3023	3717	4493	5394	6347	7379
	43	845	1220	1650	2145	2709	3343	4051	4876	5740	6671
APB8.5ML2-4	32	1684	2315	3037	3870	4818	5888	7082	8468	9931	11513
	35	1556	2150	2840	3633	4562	5587	6732	7994	9370	10984
	38	1428	1997	2658	3417	4279	5251	6381	7590	8905	10318
	43	1204	1738	2347	3046	3838	4728	5715	6871	8066	9342
APB11.5ML3-4	32	2312	3150	4143	5268	6551	7997	9612	11488	13469	15616
	35	2141	2944	3877	4949	6204	7590	9136	10844	12706	14899
	38	1970	2739	3632	4657	5823	7134	8663	10296	12078	13995
	43	1675	2396	3218	4160	5229	6429	7763	9323	10941	12675
APB15.8ML3-4	32	3233	4453	5856	7448	9229	11311	13495	15837	18615	21261
	35	2960	4123	5502	7030	8739	10623	12835	15085	17453	20330
	38	2718	3835	5111	6554	8250	10055	12017	14108	16611	18947
	43	2319	3348	4521	5843	7400	9046	10831	12721		
APB20.8ML2-4	32	4360	5887	7641	9660	11960	14550	17436	20782	24315	28129
	35	4056	5505	7186	9113	11361	13846	16615	19664	22980	26862
	38	3752	5146	6762	8612	10712	13067	15792	18708	21876	25277
	43	3227	4530	6034	7748	9684	11849	14240	17003	19873	22933
APB25.8ML2-4	32	5020	7013	9285	11881	14807	18231	21865	25797	29974	34966
	35	4640	6510	8670	11221	14026	17146	20560	24573	28578	32730
	38	4264	6056	8125	10481	13129	16235	19498	23007	26704	31177
	43	3632	5283	7186	9346	11766	14609	17572	20740	24052	
APB29.6ML2-4	32	5773	8117	10806	13848	17243	21190	25287	29647	34826	39565
	35	5317	7546	10182	13084	16322	19880	24074	28238	32554	37869
	38	4896	7016	9444	12184	15416	18808	22465	26323	30988	35112
	43	4144	6080	8294	10787	13552	16841	20146	23607		
APB36.7ML2-4	32	6817	9645	12867	16549	20718	25393	30874	36655	42928	50393
	35	6304	8945	11999	15493	19612	24101	29081	34541	40988	47425
	38	5794	8305	11219	14558	18345	22589	27591	32819	38464	45257
	43	4882	7205	9864	12920	16388	20273	24884	29648	34764	

Requires additional fan compressor cooling.

Capacities based on 20°C return vapour and 0 K sub cooling.



Packaged Condensing Units

Acpac

Refrigeration Capacities - Watts R134a

Semi Hermetic Reciprocating - Bitzer - Medium & Low Temperature Applications

Model No.	Ambient Temp. °C	Saturated Suction Temperature: °C									
		-30	-25	-20	-15	-10	-5	0	5	10	12.5
APB4.9ML2-4	32	801	1122	1504	1952	2475	3081	3779	4577	5483	5981
	35	753	1065	1435	1870	2377	2964	3639	4432	5317	5804
	38	705	1008	1371	1794	2287	2859	3516	4269	5124	5593
	43	630	919	1260	1660	2127	2668	3289	3999	4802	5243
APB6.0ML2-4	32	1006	1407	1884	2442	3092	3840	4694	5660	6816	7421
	35	936	1322	1781	2318	2942	3660	4518	5464	6529	7107
	38	865	1244	1689	2211	2818	3517	4318	5224	6241	6794
	43	766	1117	1534	2022	2588	3240	3984	4824	5830	6354
APB8.5ML2-4	32	1419	1958	2599	3352	4226	5236	6387	7690	9248	10063
	35	1330	1851	2470	3196	4039	5041	6168	7448	8888	9669
	38	1241	1753	2354	3061	3883	4832	5916	7147	8527	9276
	43	1115	1592	2158	2822	3594	4483	5497	6644	8015	8730
APB11.5ML3-4	32	1828	2568	3449	4486	5695	7090	8686	10492	12648	13778
	35	1704	2421	3273	4275	5441	6827	8389	10162	12158	13242
	38	1580	2285	3116	4094	5232	6546	8050	9754	11668	12706
	43	1410	2071	2855	3776	4846	6079	7485	9074	10968	11957
APB15.8ML3-4	32	2927	4031	5331	6846	8589	10572	12956	15514	18338	19845
	35	2739	3805	5061	6569	8277	10227	12427	14880	17581	19018
	38	2575	3615	4841	6268	7912	9786	11897	14246	17088	18521
	43	2298	3276	4427	5765	7303	9141	11154	13403	15880	17200
APB20.8ML2-4	32	3661	5020	6634	8530	10738	13280	16184	19468	23385	25430
	35	3440	4754	6312	8142	10270	12796	15631	18844	22452	24410
	38	3219	4508	6024	7804	9874	12258	14982	18064	21519	23391
	43	2902	4102	5526	7195	9133	11361	13900	16766	20195	21971
APB25.8ML2-4	32	4146	5920	8011	10453	13278	16509	20379	24559	29208	31709
	35	3832	5544	7563	9918	12755	15905	19478	23485	27931	30318
	38	3519	5222	7186	9477	12125	15151	18577	22411	26655	28926
	43	3062	4622	6461	8604	11075	13894	17296	20929	24948	27100
APB29.6ML2-4	32	4913	6932	9332	12149	15412	19141	23647	28438	33712	36519
	35	4506	6463	8785	11631	14821	18468	22586	27174	32206	34877
	38	4168	6078	8345	11001	14073	17578	21526	25910	31301	33944
	43	3521	5324	7459	9953	12827	16324	20081	24251	28810	31221
APB36.7ML2-4	32	5513	8022	10974	14420	18408	22983	28188	34394	41040	44633
	35	5055	7483	10339	13671	17525	22132	27204	32919	39295	42736
	38	4597	7016	9797	13040	16789	21084	25960	31444	37550	40839
	43	3939	6158	8768	11809	15321	19336	23885	29369	35154	38266

Requires additional fan compressor cooling.

Capacities based on 20°C return vapour and 0 K sub cooling.



Packaged Condensing Units

Acpac

Refrigeration Capacities - Watts R404A

Scroll - Medium Temperature Applications

Model No.	Ambient Temp. °C	Saturated Suction Temperature: °C					
		-15	-10	-5	0	5	10
APC4.6M1-4	32	3285	3890	4604	5356	6178	7120
	35	3143	3710	4394	5129	5933	6760
	38	3001	3544	4186	4859	5633	6476
	43	2711	3251	3829	4444	5148	5952
APC5.7M2-4	32	4008	4827	5722	6677	7867	9069
	35	3833	4616	5478	6413	7477	8649
	38	3653	4376	5208	6136	7154	8303
	43	3359	4030	4780	5621	6600	7670
APC7.9M2-4	32	5615	6665	7915	9338	10861	12548
	35	5375	6384	7587	8888	10351	12070
	38	5105	6084	7250	8490	9912	11470
	43	4662	5554	6630	7791	9111	10542
APC11.5M3-4	32	8138	9712	11536	13542	15723	18074
	35	7800	9291	10996	12912	15073	17369
	38	7410	8841	10498	12332	14323	16529
	43	6738	8075	9600	11316	13182	15243
APC14.4M3-4	32	10310	12260	14418	16763	19478	-
	35	9830	11660	13776	16015	18458	-
	38	9346	11082	13026	15115	17622	-
	43	8471	10078	11827	13755	16030	-
APC18.3M2-4	32	12744	15379	18285	21580	25132	28976
	35	12195	14745	17548	20620	23992	27842
	38	11595	14055	16738	19751	22968	25022
	43	10493	12865	15358	18189	21113	23200
APC20.3M2-4	32	14394	17181	20254	23802	27558	31606
	35	13783	16466	19408	22662	26238	30344
	38	13123	15686	18552	21674	25077	28784
	43	12012	14340	16993	19889	23003	26448
APC24.7M2-4	32	17303	20776	24694	29007	33925	39168
	35	16583	19926	23721	27880	32425	37428
	38	15836	19056	22641	26620	31093	35877
	43	14537	17554	20843	24544	28675	33062
APC29.7M2-4	32	21011	25192	29740	34892	40437	46524
	35	20038	24098	28492	33302	38553	44692
	38	18904	22880	27229	31846	36890	42406
	43	16862	20711	24871	29179	33856	36393
APC34.9M2-4	32	24320	29295	34863	40805	47265	49995
	35	23086	27909	33159	38855	45380	48022
	38	21724	26503	31577	37083	43040	45556
	43	19325	23912	28686	33856	39430	41787

Capacities based on 18°C return vapour and 3 K sub-cooling.



Packaged Condensing Units

Acpac

Refrigeration Capacities: Watts - R134a

Scroll - Medium Temperature Applications

Model No.	Ambient Temp. °C	Saturated Suction Temperature: °C					
		-15	-10	-5	0	5	10
APC4.6M1-4	32	1857	2324	2860	3488	4195	5004
	35	1797	2252	2778	3383	4071	4848
	38	1737	2175	2688	3269	3946	4701
	43		2046	2533	3094	3724	4441
APC5.7M2-4	32	2172	2718	3364	4108	4963	5929
	35	2100	2634	3262	3988	4823	5760
	38	2030	2551	3158	3866	4667	5574
	43		2409	2980	3655	4414	5275
APC7.9M2-4	32	3150	3942	4869	5942	7168	8553
	35	3048	3816	4719	5768	6964	8306
	38	2947	3696	4573	5582	6742	8055
	43		3490	4321	5279	6375	7624
APC11.5M3-4	32	4539	5726	7075	8622	10381	12397
	35	4395	5552	6859	8376	10082	12036
	38	4252	5381	6655	8118	9776	11678
	43		5089	6299	7683	9259	11056
APC14.4M3-4	32	5776	7354	9061	10965	13132	15554
	35	5565	7057	8780	10633	12702	15075
	38	5355	6749	8489	10289	12292	14539
	43		6287	7885	9606	11574	13694
APC18.3M2-4	32	7119	8886	10954	13292	15995	18972
	35	6885	8604	10594	12902	15530	18437
	38	6654	8324	10259	12497	15020	17867
	43		7848	9691	11812	14196	16908
AP20.3M2-4	32	8122	10091	12416	15122	18138	21543
	35	7858	9779	12026	14661	17616	20935
	38	7597	9460	11648	14181	17046	20319
	43		8915	10982	13401	16126	19217
APC24.7M2-4	32	9383	11696	14461	17578	21161	25125
	35	9083	11336	14011	17038	20501	24430
	38	8786	10970	13556	16512	19901	23650
	43		10331	12765	15610	18821	22392
APC29.7M2-4	32	11812	14765	18205	22078	26534	31582
	35	11332	14285	17635	21439	25772	30648
	38	10847	13761	17030	20719	24932	29703
	43		12805	15978	19517	23502	28003
APC34.9M2-4	32	13750	17381	21511	26228	31518	37524
	35	13210	16781	20815	25433	30622	36324
	38	12661	16147	20095	24593	29717	35228
	43		15040	18827	23148	27996	33285

Capacities based on 18°C return vapour and 3 K sub cooling.



Packaged Condensing Units

Acpac

Refrigeration Capacities: Watts - R404A

Scroll - Low Temperature Applications

Model No.	Ambient Temp. °C	Saturated Suction Temperature: °C							
		-40	-35	-30	-25	-23.3	-20	-15	-10
APC3.4L2-4	32	1697	2089	2577	3228	3438	3846	4594	5441
	35	1637	2029	2517	3108	3304	3685	4426	5224
	38	1575	1967	2415	2932	3147	3565	4246	4984
	43	1473	1830	2215	2696	2900	3298	3876	4607
APC4.9L2-4	32	2392	2983	3738	4610	4927	5543	6673	7888
	35	2332	2923	3618	4387	4702	5316	6396	7528
	38	2241	2823	3447	4207	4502	5076	6096	7195
	43	2070	2620	3201	3911	4175	4688	5619	6620
APC5.9L2-4	32	2956	3689	4544	5519	5901	6643	7924	9369
	35	2836	3509	4364	5285	5650	6358	7564	8889
	38	2713	3389	4184	5045	5395	6073	7232	8523
	43	2513	3129	3888	4651	4967	5581	6650	7818
APC7.3L3-4	32	3578	4532	5590	6793	7265	8181	9760	11604
	35	3458	4352	5410	6547	6987	7840	9370	11064
	38	3336	4172	5178	6247	6666	7480	8978	10582
	43	3101	3869	4778	5758	6144	6893	8178	9711
APC9.2L2-4	32	4418	5599	6959	8569	9178	10361	12309	14638
	35	4245	5419	6719	8209	8798	9941	11848	14053
	38	4065	5219	6482	7900	8456	9534	11368	13393
	43	3753	4819	6052	7360	7847	8791	10524	12340
AP12.5L22-4	32	6152	7694	9552	11689	12477	14008	16718	19862
	35	5852	7394	9132	11214	11970	13438	16042	18962
	38	5584	7077	8775	10674	11410	12838	15364	18121
	43	5155	6528	8125	9858	10540	11863	14064	16619
APC15.0L2-4	32	7372	9354	11630	14078	15020	16848	20086	23536
	35	7072	8994	11160	13540	14450	16217	19186	22565
	38	6769	8634	10680	12940	13817	15520	18314	21425
	43	6266	7969	9808	11958	12734	14241	16761	19598
APC18.7L2-4	32	9136	11522	14281	17443	18665	21039	25090	29721
	35	8776	11042	13741	16772	17937	20200	24029	28341
	38	8413	10604	13145	15992	17117	19300	22958	27080
	43	7813	9812	12094	14707	15740	17746	21119	24863

Requires liquid injection for compressor cooling.
Capacities based on 18°C return vapour and 3 K sub cooling.



Packaged Condensing Units

Acpac

Dimensions: mm

Hermetic Reciprocating

Model No.	Overall Dimensions			Case		Mounting Holes	
	Length	Width	Height	Width	Height	Length	Width
AP1.7M1-4	1070	480	750	480	650	1030	440
AP2.1M1-4							
AP2.5M1-4							
AP2.8M1-4							
AP3.9M1-4							
AP4.1M1-4	1285	628	820	585	660	895	610
AP5.7M2-4							
AP7.8M2-4							
AP8.8M2-4							
AP10.7M2-4							
AP13.1M2-4	1070	480	750	480	650	1030	440
AP1.9L1-4							
AP2.9L1-4	1285	628	820	585	660	895	610
AP3.3L2-4							
AP4.8L2-4							
AP6.2L2-4							

Semi Hermetic Reciprocating High Ambient Series

Cat No.	Model No.	Overall Dimensions			Case		Mounting Holes	
		L	W	H	W	H	L	W
2701982	APS4.6ML2-1	1420	630	820	585	660	780	610
2701983	APS6.0ML2-1							
2701984	APS8.3ML2-1							
2701985	APS11.7ML3-1	1880					740 + 740	
2701986	APS14.4ML3-1							
2701987	APS19.0ML2-1	1770	870	1015	810	885	1230 + 225	840
2701988	APS25.8ML2-1							
2701989	APS33.6ML2-1							
2702251	APS39.5ML2-1	2455	1101	1544	1051	1224	294 + 944 + 941	1071
2702252	APS46.5ML2-1							
2702253	APS56.4ML2-1							
2702254	APS64.2ML2-1							

Cat No.	Model No.	Overall Dimensions			Case		Mounting Holes					
		L	W	H	W	H	L	W				
2709801	APB4.9ML2-4	1420	630	820	585	660	780	610				
2709802	APB6.0ML2-4											
2709803	APB8.5ML2-4	1880					740 + 740					
2709804	APB11.5ML3-4											
2709805	APB15.8ML3-4	1770	870	1015	810	885	1230 + 225	840				
2709806	APB20.8ML2-4											
2709807	APB25.8ML2-4											
2709808	APB29.6ML2-4											
2709809	APB36.7ML2-4											

Scroll High Ambient Series

Model No.	Overall Dimensions			Case		Mounting Holes	
	Length	Width	Height	Width	Height	Length	Width
APC4.6M1-4	1070	480	750	480	650	1030	440
APC5.7M2-4	1285	628	820	585	660	895	610
APC7.9M2-4						665+665	
APC11.5M3-4	1745						
APC14.4M3-4		1660	790	1015	735	885	1074+356
APC18.3M2-4							
APC20.3M2-4							
APC24.7M2-4							
APC29.7M2-4							
APC34.9M2-4	1285	628	820	585	660	895	610
APC3.4L2-4						665+665	
APC4.9L2-4							
APC5.9L2-4							
APC7.3L3-4	1745	790	1015	735	885	1074+356	750
APC9.2L2-4	1660						
APC12.5L2-4							
APC15.0L2-4							
APC18.7L2-4							

Packaged Condensing Units

Copeland®

Copeland

ZXD Scroll Series



Emerson's highly successful Copeland brand scroll compressors drive the high efficiency of the ZX platform of packaged condensing units.

The ZXD range of Digital modulated medium temperature units benefit from patented Digital scroll technology. This allows a simple and very reliable variable capacity system.

The Digital modulated variable capacity ZXD medium temperature unit comes with Emerson Climate Technologies proven "EC2-552" controller. The EC2 controller provides real time load estimation and controls the delivered capacity by changing the Digital modulation rate. The controller also provides the basic protection including the high discharge temperature trip. The controller also displays the suction pressure, saturated evaporating temperature based on the suction pressure, modulation rate and discharge line temperature.

Medium Temperature

Cat. No.	Model No.	Compressor			Fans No. Diam. mm	Connections		Dimensions: L x W x H mm	Weight: kg
		Model No.	Rated Load Current: A	Locked Rotor Current: A		Suction	Liquid		
2707538	ZXD040E-TFD-461	ZBD29KQE-TFD-558	7.7	48	2 x 450	7/8"	1/2"	1029 x 424 x 1242	104
2707539	ZXD050E-TFD-461	ZBD38KQE-TFD-558	10.4	64					112
2707540	ZXD060E-TFD-461	ZBD45KQE-TFD-558	9.6	74					114
2707542	ZXD075E-TFD-461	ZBD48KQE-TFD-558	12.4	100					119
2707541	ZXD076E-TFD-461	ZBD48KQE-TFD-558	12.4	100					122

ZXD Refrigeration Capacities: kW – R404A

Model No.	Amb Temp °C	Evaporating Temperature °C					
		-20	-15	-10	-5	0	5
ZXD040E-TFD-461	27	5.92	7.11	8.35	9.64	11.01	12.46
	32	5.53	6.69	7.87	9.11	10.4	11.75
	38	4.9	6	7.12	8.27	9.45	10.68
	43	4.23	5.28	6.33	7.4	8.48	9.59
ZXD050E-TFD-461	27	7.49	9.05	10.67	12.31	13.93	15.51
	32	6.56	8.12	9.76	11.43	13.1	14.74
	38	5.56	7.07	8.67	10.32	11.98	13.63
	43	4.88	6.28	7.79	9.37	10.98	12.58
ZXD060E-TFD-461	27	8.24	9.72	11.47	13.3	15.69	18.48
	32	7.53	9.06	10.72	12.58	14.72	17.2
	38	6.74	8.25	9.83	11.55	13.48	15.69
	43	5.9	7.48	9.07	10.74	12.57	14.63
ZXD075E-TFD-461	27	9.04	10.86	12.75	15.07	17.76	20.13
	32	8.33	10.01	11.82	13.86	16.2	18.92
	38	7.3	8.74	10.62	12.47	14.54	16.92
	43	6.26	7.93	9.61	11.38	13.32	15.5
ZXD076E-TFD-461	27	9.22	11.07	13	15.37	18.12	20.53
	32	8.5	10.21	12.06	14.14	16.53	19.3
	38	7.45	8.91	10.83	12.72	14.83	17.26
	43	6.39	8.09	9.8	11.61	13.59	15.81

Return gas temperature 18.3°C at suction superheat of 10K

Packaged Condensing Units



Copeland

ZXL Scroll Series



Emerson's highly successful Copeland brand scroll compressors drive the high efficiency of the ZX platform of packaged condensing units. The fixed capacity ZXL low temperature units come with Emerson Climate Technologies' highly successful "E2 Controller". The E2 controller provides real-time monitoring of compressor operating conditions and initiates actions to keep the compressor within the safe zone. When fault conditions are detected, the controller initiates temporary shutdowns and sends specific warning signals to facilitate service. In the event of continued errors, the controller will shutdown the unit, thereby preventing costly equipment failure, and send alarm signals. ZX low temperature units applies vapour injection technology. This allows an economizer cycle on scroll compressors. Vapour injection significantly improves the low temperature operational efficiency and extends the low temperature envelope.

Low Temperature

Cat. No.	Model No.	Compressor			Fans	Connections		Dimensions: L x W x H mm	Weight: kg
		Model No.	Rated Load Current: A	Locked Rotor Current: A		Suction	Liquid		
2707543	ZXL020E-TFD-461	ZXI06KCE-TFD	5.6	39.2	1 x 450	3/4"	1/2"	1029 x 424 x 840	79
2707544	ZXL025E-TFD-461	ZXI08KCE-TFD	6.2	39.2					81
2707545	ZXL030E-TFD-461	ZXI09KCE-TFD	6.0	39.2					81
2707546	ZXL035E-TFD-461	ZXI11KCE-TFD	8.3	51.5					93
2707547	ZXL040E-TFD-461	ZXI14KCE-TFD	8.6	51.5					93
2707548	ZXL050E-TFD-461	ZXI15KCE-TFD	10.0	51.5	2 x 450	7/8"		1029 x 424 x 1242	106
2707549	ZXL060E-TFD-461	ZXI18KCE-TFD	11.1	74.0					-116
2707550	ZXL075E-TFD-461	ZXI21KCE-TFD	14.6	101.0					121

ZXL Refrigeration Capacities: kW - R404A

Model No.	Amb Temp °C	Evaporating Temperature °C								
		-40	-35	-30	-25	-20	-15	-10	-5	0
ZXL020E-TFD-461	32	1.45	1.82	2.24	2.7	3.19	3.73	4.31	4.92	5.58
	38	1.25	1.49	1.93	2.4	2.92	3.47	4.07	4.7	5.38
	43	1.1	1.23	1.58	2.07	2.6	3.18	3.79	4.44	5.13
ZXL025E-TFD-461	32	1.8	2.26	2.74	3.3	3.94	4.65	5.44	6.31	7.25
	38	1.63	2.03	2.5	3.05	3.68	4.38	5.15	6.01	6.94
	43	1.31	1.7	2.16	2.7	3.31	4.01	4.77	5.62	6.54
ZXL030E-TFD-461	32	2.08	2.49	3	3.6	4.27	5	5.77	7.35	8.38
	38	2	2.33	2.77	3.31	3.92	4.59	5.31	6.95	7.95
	43	1.73	2.03	2.44	2.95	3.54	4.19	4.89	6.55	7.52
ZXL035E-TFD-461	32	2.47	3.2	3.94	4.68	5.48	6.35	7.31	8.4	9.63
	38	2.37	3.08	3.75	4.45	5.17	5.97	6.85	7.84	8.98
	43	2.28	2.94	3.57	4.2	4.86	5.59	6.38	7.29	8.33
ZXL040E-TFD-461	32	3.02	3.77	4.63	5.58	6.63	7.75	8.93	10.1	11.4
	38	2.85	3.56	4.37	5.27	6.25	7.28	8.36	9.48	10.63
	43	2.67	3.34	4.1	4.93	5.83	6.77	7.75	8.76	9.78
ZXL050E-TFD-461	32	3.52	4.31	5.29	6.43	7.69	9.04	10.4	11.8	13.1
	38	3.25	4.03	4.98	6.06	7.22	8.43	9.65	10.84	11.97
	43	2.99	3.77	4.69	5.71	6.78	7.87	8.95	9.97	10.89
ZXL060E-TFD-461	32	4.3	5.32	6.48	7.77	9.17	10.6	12.2	13.9	15.6
	38	4.07	5.02	6.12	7.34	8.66	10.08	11.57	13.11	14.7
	43	3.81	4.67	5.67	6.79	8	9.3	10.67	12.09	13.54
ZXL075E-TFD-461	32	4.75	5.9	7.14	8.5	9.99	11.6	13.3	15.3	17.4
	38	4.49	5.61	6.8	8.08	9.46	10.94	12.55	14.3	16.19
	43	4.21	5.3	6.43	7.63	8.9	10.25	11.71	13.28	14.97

Return gas temperature 5°C

Packaged Refrigeration Units

Eidis



Features

- R404A Refrigerant
- Units provided with electrical cable and 3 pin plug
- Baseplate powder coated
- Evaporator casing, white powder coated aluminium
- Easy installation
- Standard power requirement 220/240 volt 50/Hz
- Moulded white A.B.S. insulated inner panel
- Bench tested before packaging

Drop In Units - Medium Temp



Cat. No.	Part No.	Nominal Capacity: Watts	Compressor HP Nominal	Evaporator Fan		Nominal Power Input: A
				Diam.	Watts	
2708200	66/4 DI	1300	1/2	300mm	73	3.8
2708201	68/4 DI	1940	1			4.1
2708202	88v4 DI	2280	1 1/4			6.0
2708203	1212/4 DI	3220	1 1/2	350mm	130	10.2

Slide In Units - Medium Temp



Cat. No.	Part No.	Nominal Capacity: Watts	Compressor HP Nominal	Evaporator Fan		Nominal Power Input: A
				Diam.	Watts	
2708204	66/4 SI	1300	1/2	300mm	73	3.8
2708205	68/4 SI	1940	1			4.1
2708206	88/4 SI	2280	1 1/4			6.0
	1212/4 SI	3220	1 1/2	350mm	130	10.2

Push In Units - Medium Temp



Cat. No.	Part No.	Nominal Capacity: Watts	Compressor HP Nominal	Evaporator Fan		Nominal Power Input: A
				Diam.	Watts	
	66/4 PI	1300	1/2	300mm	73	3.8
	68/4 PI	1940	1			4.1
	88/4 PI	2280	1 1/4			6.0

Low Profile Units - Medium Temp



Cat. No.	Part No.	Nominal Capacity: Watts	Compressor HP Nominal	Evaporator Fan		Nominal Power Input: A
				Diam.	Watts	
	64/4 LP	975	3/8	2x175mm	60	4.65
	66/4 LP	1200	1/2	3x175mm	90	4.88
	68/4 LP	1930	1			7.02
	88/4 LP	2250	1 1/4			8.42

Packaged Dimensions & Weights:

Drop in Units

Model No.	Dimensions: mm	Weight
66/4 DI	720 x 460 x 870	47kg
68/4 DI	720 x 460 x 940	56kg
88/4 DI		62kg
1212/4 DI	920 x 680 x 1010	105kg

Slide In Units

Model No.	Dimensions: mm	Weight
66/4 SI	1070 x 700 x 510	58kg
68/4 SI		67kg
88/4 SI		71kg
1212/4 SI	1320 x 900 x 600	120kg

Push In Global Units

Model No.	Dimensions: mm	Weight
66/4 PI	930 x 810 x 700	56kg
68/4 PI		58kg
88/4 PI		60kg

Low Profile Units

Model No.	Dimensions: mm	Weight
64/4 LP	900 x 500 x 650	40 kg
66/4 LP		46 kg
68/4 LP		47 kg
88/4 LP		49 kg



Packaged Refrigeration Units

Zanotti

Drop-in and slide-in cool room and freezer room refrigeration systems.

Features

- Three pin plug fitted to all units
- Defrost heat contained external to room
- Low profile evaporator giving minimal room intrusion
- No drainage required - unit incorporates condensate vapourisation system
- Prewired for door sensor (and door heater on low temperature models)
- Coldroom bulkhead light and prewired connection supplied with each unit
- Digital controller incorporating anti short cycle timer and defrost termination
- Reduced electrical supply required due to hot gas defrost on all models

Specifications

- Refrigerant: R404A
- Defrost type: Hot gas
- Temperature display: Digital
- Max ambient temp 45°C
- Type of control: Electronic
- Interior light: Yes

Drop in units - Medium temperature



Cat. No.	Model No.	Nominal Capacity: Watts	Temp Range: °C	Max. Ambient: °C	Current: A		Weight: kg
					Run	FLA	
2700579	MSB125T	1450	-5 to +10	45	5.0	8.4	59
2700580	MSB225N	2080			6.3	12.0	74
2700581	MSB225T	2450			7.0	12.5	75
2700582	MSB135N	3270			10.0	19.7	92
2700583	MSB135T	4400			12.3	23.9	98

Drop in units - Low temperature

Cat. No.	Model No.	Nominal Capacity: Watts	Temp Range: °C	Max. Ambient: °C	Current: A		Weight: kg
					Run	FLA	
2700569	BSB125T	1190	-25 to -5	45	5.6	9.1	68
2700570	BSB225T	1690			7.7	21.1	87
2700571	BSB135T	2480			7.5	22.0	102

Slide in units - Medium temperature



Cat. No.	Model No.	Nominal Capacity: Watts	Temp Range: °C	Max. Ambient: °C	Current: A		Weight: kg
					Run	FLA	
2700572	MGM106	1100	-5 to +10	45	5.0	8.3	56
2700573	MGM110	1500			5.6	11.2	64
2700574	MGM211	1960			6.9	12.4	80
2700575	MGM213	2600			9.3	18.0	80
2700576	MGM315	3440			8.5	16.1	98
2700577	MGM320	3850			11.5	17.1	100

Slide in units - Low temperature

Cat. No.	Model No.	Nominal Capacity: Watts	Temp Range: °C	Max. Ambient: °C	Current: A		Weight: kg
					Run	FLA	
2700565	BGM218	1210	-25 to -5	45	5.9	11.7	80
2700566	BGM220	1660			7.5	20.9	80
	BGM320	2190			9.9	25.1	105
2700568	BGM330	2650			9.9	25.1	105

Features

- Suitable for all the common HFC and HCFC refrigerants including R22, R134a & R404A/R507
- Easily cleaned and hygienic white 4.5mm 'Refrigeration Grade' ABS cover with rounded corners
- Reinforced white colourbond base and white powder-coated inlet grille
- Efficient inner grooved copper tubing with corrosion protected lacquer coating on return bends
- Balanced acrylic fans with ball bearing race motors
- Cover removed by two captive stainless steel screws
- Internal components secured by captive nuts
- Suitable for capillary or TX valve operation
- Epoxy coated fins



PC Series – Medium Temperature

Cat. No.	Model No.	Cap. Watts @ 6 KTD			No. of Fans	Motor Input Watts	Connections mm		Overall Dimensions mm		
		R404A	R134a	R22			Suct.	Liq.	Length	Width	Height
2710404	PC30	313	295	310	1	30	9.5	9.5	440	395	135
2710405	PC41	414	390	410							
2710406	PC53	535	504	530							
2710407	PC64	646	608	640							
2710409	PC76	768	722	760	2	60	9.5	9.5	705	395	135
2710410	PC100	1030	969	1020							
2710411	PC135	1364	1283	1350	3	90	12.7	12.7	840	190	190
2710412	PC160*	1616	1520	1600							
2710413	PC200*	2020	1900	2000							
2710414	PC230*	2323	2185	2300							

*Fitted with 6.35mm External Equaliser

PCL Series – Low Temperature

Cat. No.	Model No.	Cap. Watts @ 6 KTD		No. of Fans	Motor Input Watts	Connections mm		Overall Dimensions mm			Defrost Heat Watts
		R404A	R22			Suct.	Liq.	Length	Width	Height	
2710408	PCL40	400	396	1	30	9.5	9.5	440	395	135	400
2710423	PCL50	500	495								
2710424	PCL60	600	594	2	60			705			600
2710425	PCL80	800	792								
2710426	PCL100	1000	990	3	90	12.7	12.7	840	190	800	
2710402	PCL120*	1200	1188								
2710433	PCL150*	1500	1485								
2710434	PCL170*	1700	1683							1500	

*Fitted with 6.35mm External Equaliser

PDC Series – Dual Coil – Medium Temperature

Cat. No.	Model No.	Cap. Watts @ 6 KTD			No. of Fans	Motor Input Watts	Connections mm		Overall Dimensions mm		
		R404A	R134a	R22			Suction	Liquid	Length	Width	Height
2710416	PDC45	455	428	450	1	35	9.5	9.5	565	335	160
2710417	PDC60	606	570	600							
2710418	PDC80	808	760	800							
2710419	PDC100	1010	950	1000							
2710415	PDC120*	1212	1140	1200			12.7	12.7	610	430	200
2710435	PDC160*	1616	1520	1600							
2710436	PDC185*	1869	1757	1850							

*Fitted with 6.35mm External Equaliser

Ratings based on -4°C SST for medium temperature models and -24°C SST on low temperature models.

Forced Draught Evaporators

Cabero

LPC Series - Medium Temperature



Actrol recommend selection using the EN 328 SC2 capacity data.

The 35mm x 35mm inline (parallel) tube pattern removes less moisture as it operates at a higher average coil temperature. Selection at 8 KTD is usual for general purpose cool-rooms.

Features

- Low profile suits small rooms and reach in cabinets
- Forced draught provides even air distribution
- Powder coated smooth aluminium case
- Venturi distributor for multiple refrigerants
- ½" smooth bore copper tubing
- Fan/s pre-wired to IP54 junction box
- Fins protected with Blue-Fin coating
- Professional in-line tube configuration
- Low energy fan/s
- Separate fan compartments
- Stainless steel fixings
- Flush mount ceiling brackets
- Fold down drip tray with central drain connection.
- Air bypass sheet with special drainage system

Cat. No.	Part No.	Capacity @ -8°C SST & 8 KTD : Watts		Capacity @ -4°C SST & 6 KTD : Watts		Air Flow l/s	Air Throw m	No. & Dia. of Fans	Fan Motors 230V/50Hz			Connections		Overall Dim: mm			Weight kg												
		"R404A (EN 328 SC2)"	"R134a (EN 328 SC2)"	"R404A (EN 328)"	"R134a (EN 328)"				Total Watts	Total Amps	Heat/24 Hrs Total Watts	Liq.	Suct.	Length	Depth	Height													
300mm Diameter Fan Model																													
	LPC4A1/30.1*	1155	1051	866	788	375	7	1 x 300	85	0.38	2040	1½"		815	670	380	13												
2710337	LPC4B1/30.1*	1617	1471	1213	1104	336											14												
2710338	LPC4C1/30.1*	1991	1812	1493	1359	311	6					2 x 300	170				0.76	4080	5⅝"	¾"	1365	670	15						
	LPC4D1/30.1	2178	1982	1634	1486	294																	16						
2710339	LPC4E1/30.1	2442	2222	1832	1667	278	5	2 x 300	170	0.76	4080			7/8"	1365					670			17						
2710340	LPC4B2/30.1	3289	2993	2467	2245	672	7																2 x 300	170	0.76	4080	7/8"	1365	670
2710341	LPC4C2/30.1	4048	3684	3036	2763	622	6					2 x 300	170	0.76			4080	7/8"			1365	670							
	LPC4D2/30.1	4510	4104	3383	3078	589																					5		
2710342	LPC4E2/30.1	4961	4515	3721	3386	556	5	2 x 300	170	0.76	4080				7/8"			1365		670							32		
2710343	LPC4C3/30.1	6061	5516	4546	4137	933	6																3 x 300	255	1.14	6120	1 1/8"	1915	670
	LPC4D3/30.1	6930	6306	5198	4730	883						5	3 x 300	255	1.14		6120				1 1/8"	1915							
	LPC4E3/30.1	7469	6797	5602	5098	833	5					3 x 300															255		
	LPC4C4/30.1	8140	7407	6105	5556	1244	6	4 x 300	340	1.52	8160							1 1/8"		2465	670								
2710344	LPC4D4/30.1	9262	8428	6947	6321	1178													5				4 x 300	340	1.52	8160		1 1/8"	2465
	LPC4E4/30.1	10032	9129	7524	6847	1111	5						4 x 300	340	1.52		8160	1 1/8"	2465			670							

Refrigerant Correction Multiplier

Refrigerant	R404A	R507	R134a	R22
Capacity Multiplier	1.0	1.0	0.91	0.95



Forced Draught Evaporators

Cabero

LPC E Series - Low Temperature



Actrol recommend selection using the EN 328 SC3 capacity data.

The 35mm x 35mm inline (parallel) tube pattern removes less moisture as it operates at a higher average coil temperature. Selection at 7 KTD is usual for general purpose freezer-rooms.

Features

- Low profile suits small rooms & reach in cabinets
- Forced draught provides even air distribution
- Powder coated smooth aluminium case
- Venturi distributor for multiple refrigerants
- ½" smooth bore copper tubing
- Fan/s pre-wired to IP54 junction box
- Fins protected with Blue-Fin coating
- Defrost heaters pre-wired to IP54 junction box
- Heater safety thermostat fitted
- Defrost termination sensor location provided
- Professional in-line tube configuration
- Low energy fan/s
- Separate fan compartments
- Stainless steel fixings
- Flush mount ceiling brackets
- Air bypass sheet with special drainage system
- Fold down drip tray with central drain connection.

Cat. No.	Part No.	Capacity @ -25°C SST & 7 KTD : Watts	Capacity @ -24°C SST & 6 KTD : Watts	Air Flow l/s	Air Throw m	No. & Dia. of Fans	Fan Motors			Defrost Heaters 240 Volts		Connections		Overall Dim: mm			Weight kg
		"R404A (EN 328 SC3)"	"R404A (EN 328)"				Total Watts	Total Amps	Heat/ 24 Hrs Total Watts	Coil No. & Watts	Drip Tray No. & Watts	Liq.	Suct.	Length	Depth	Height	

300mm Diameter Fan Model

	LPC4A1/30E.1*	880	754	375	7	1 x 300	85	0.38	2040	2 x 600	1 x 600	1½"		815	670	380	13														
2710345	LPC4B1/30E.1*	1190	1020	336								1 ½"					14														
2710346	LPC4C1/30E.1*	1370	1174	311	6												¾"					15									
	LPC4D1/30E.1	1580	1354	294																		16									
2710347	LPC4E1/30E.1	1730	1483	278	5	6												17													
2710348	LPC4B2/30E.1	2350	2014	672	7													26													
2710349	LPC4C2/30E.1	2800	2400	622	6																									28	
	LPC4D2/30E.1	3160	2709	589																										30	
2710350	LPC4E2/30E.1	3470	2974	556	5	2 x 300	170	0.76	4080	3 x 1100	1 x 1100	5⅝"	7⅞"	1365	670		32														
2710351	LPC4C3/30E.1	4280	3669	933	6																								41		
	LPC4D3/30E.1	4870	4174	883						45																					
2710352	LPC4E3/30E.1	5230	4483	833	5	3 x 300	255	1.14	6120	3 x 1600	1 x 1600		1 1⅝"	1915	670		48														
	LPC4C4/30E.1	5650	4843	1244	6																			55							
	LPC4D4/30E.1	6290	5391	1178						59																					
2710353	LPC4E4/30E.1	6980	5983	1111	5					4 x 300	340	1.52		8160	3 x 2100		1 x 2100			2465	670	64									

Refrigerant Correction Multiplier

Refrigerant	R404A	R507	R134a	R22
Capacity Multiplier	1.0	1.0	0.91	0.95



Induced Draught Evaporators

Cabero

DH Dual Air Discharge Series - Medium Temperature

DH series dual air discharge evaporators are designed for cutting and packaging rooms and for storage of sensitive products where reduced air flow is optimal.

Features

- 12mm Professional In-line (parallel) tube configuration
- Fins protected with Blue-Fin coating
- Fan/s pre-wired to IP54 junction box
- Powder coated smooth aluminium case
- Flush mount ceiling brackets
- Fold down drip trays with central drain connections
- Venturi distributor for multiple refrigerants
- Low energy fan/s
- Separate fan compartments
- Stainless steel fixings
- Air Bypass Sheet with special drainage system



Cat. No.	Part No.	Capacity @ 0C SST & 10 KTD : Watts		Air Flow l/s	Air Throw m	No. & Dia. of Fans	Fan Motors			Connections mm		Overall Dim: mm		
		"R404A (EN 328 SC1)"	"R134a (EN 328 SC1)"				Total Watts	Total Amps	Heat/ 24 Hrs Total Watts	Liq.	Suct.	Length	Depth	Height

300mm and 350mm Diameter Fan Models - 4mm Fin Spacing (6 FPI)

	DH4B1/30	3180	2894	653	6	1/350	140	0.60	3360	1/2	5/8	940	1005	325
	DH4C1/30	3820	3476	606										
	DH4D1/35	6440	5860	569	5		140	0.60	3360		3/4	1590		
	DH4E1/35	6880	6261	544										
	DH4B2/35	8750	7963	1306	8	2/350	280	1.20	6720	7/8	1590			
	DH4C2/35	11550	10511	1211										
	DH4D2/35	12730	11584	1139	7					14160	12886	1089		
	DH4E2/35	14160	12886	1089										
	DH4C3/35	17380	15816	1817	9	3/350	420	1.80	10080	7/8	1 3/8	2890		
	DH4D3/35	19690	17918	1708										
	DH4E3/35	21160	19256	1633	8	4/350	560	2.40	13440	7/8	1 3/8	2890		
	DH4D4/35	16130	14678	2278										
	DH4E4/35	28410	25853	2178										

500mm Diameter Fan Models - 4mm Fin Spacing (6 FPI)

	DH4C1/50	17240	15688	2033	26	1/500	750	1.30	18000	5/8	1 1/8	1420	1315	480
	DH4D1/50	20300	18473	1975	25									
	DH4E1/50	22400	20384	1922	24					7/8	1 3/8	2500		
	DH4G1/50	25630	23323	1808	22									
	DH4C2/50	34990	31841	4067	27	2/500	1500	2.60	36000	7/8	1 5/8	2500		
	DH4D2/50	40950	37265	3950	26									
	DH4E2/50	45340	41259	3844	25					1 1/8	2 1/8	3580		
	DH4G2/50	52000	47320	3617	23									
	DH4D3/50	61410	55883	5925	26	3/500	2250	3.90	54000	1 1/8		3580		
	DH4E3/50	68870	62672	5767	25									
	DH4G3/50	75860	69033	5425	23									

Refrigerant Correction Multiplier

Refrigerant	R404A	R507	R134a	R22
Capacity Multiplier	1.0	1.0	0.91	0.95



Induced Draught Evaporators

Cabero

CH Series - Medium Temperature



Actrol recommend selection using the EN 328 SC2 capacity data.

The 35mm x 35mm inline (parallel) tube pattern removes less moisture as it operates at a higher average coil temperature. Selection at 8 KTD is usual for general purpose cool-rooms.

Features

- Powder coated smooth aluminium case
- Venturi distributor for multiple refrigerants
- 1/2" smooth bore copper tubing
- Fins protected with Blue-Fin coating
- Fan/s pre-wired to IP54 junction box
- Professional in-line tube configuration
- Low energy fan/s
- Separate fan compartments
- Stainless steel fixings
- Flush mount ceiling brackets
- Air bypass sheet with special drainage system
- Fold down drip tray with central drain conn.

Cat. No.	Part No.	Capacity @ -8°C SST & 8 KTD : Watts		Capacity @ -4°C SST & 6 KTD : Watts			Air Throw m	No. & Dia. of Fans	Fan Motors			Connections		Overall Dim: mm		
		R404A (EN 328 SC2)	R134a (EN 328 SC2)	R404A (EN 328)	R134a (EN 328)				Total Watts	Total Amps	Heat/24 Hrs Total Watts	Liq.	Suct.	Length	Depth	Height

300mm and 350mm Diameter Fan Model

2710355	CH4B1/30-1	2120	1929	1611	1466	439	6	1/300	85	0.38	2040	1 1/2"	1 1/2"	850	560	470
2710356	CH4C1/30-1	2590	2357	1968	1791	428							5/8"	1050		
2710357	CH4B1/35-1	3060	2785	2326	2116	689	7	1 x 350	140	0.60	3360		3/4"	1300		
2710358	CH4C1/35-1	3980	3622	3025	2753	664							3/4"	1050		
2710359	CH4B2/30-1	4240	3858	3222	2932	878	6	2 x 300	170	0.76	4080		3/4"	1300		
2710360	CH4D1/35-1	4530	4122	3443	3133	622							3/4"	1050		
	CH4E1/35-1	4850	4414	3686	3354	586	7	1 x 350	140	0.60	3360		3/4"	1300		
2710361	CH4C2/30-1	5170	4705	3929	3576	856							3/4"	1300		
2710362	CH4B2/35-1	6480	5897	4925	4482	1383	9	2 x 350	280	1.20	6720		7/8"	1700		
2710363	CH4C2/35-1	7970	7253	6057	5512	1322							7/8"	1700		
2710364	CH4D2/35-1	9000	8190	6840	6224	1230	8	2 x 350	280	1.20	6720	5/8"	1 1/8"	2350		
2710365	CH4E2/35-1	9890	9000	7516	6840	1183							1 1/8"	2350		
2710366	CH4C3/35-1	11910	10838	9052	8237	1936	10	3 x 350	420	1.80	10080	5/8"	1 1/8"	2350		
2710367	CH4D3/35-1	13850	12604	10526	9579	1839							1 1/8"	2350		
2710368	CH4E3/35-1	14940	13595	11354	10333	1761	9	4 x 350	560	2.40	13440	7/8"	1 3/8"	3000		
2710369	CH4D4/35-1	18470	16808	14037	12774	2439							1 3/8"	3000		
2710370	CH4E4/35-1	20800	18928	15808	14385	2358										

500mm Diameter Fan Model

	CH4C1/50-1	11460	10429	8710	7926	2033	26	1 x 500	750	1.30	18000	5/8"	1 1/8"	1420	670	750
2710371	CH4D1/50-1	13740	12503	10442	9503	1975	25						1 1/8"			
	CH4E1/50-1	15190	13823	11544	10505	1922	24						1 3/8"			
2710372	CH4G1/50-1	17450	15880	13262	12068	1808	22						1 3/8"			
2710373	CH4C2/50-1	23220	21130	17647	16059	4067	27	2 x 500	1500	2.60	36000	7/8"	1 5/8"	2500		
2710374	CH4D2/50-1	27690	25198	21044	19150	3950	26						1 5/8"			
2710375	CH4E2/50-1	30720	27955	23347	21246	3844	25						1 5/8"			
2710376	CH4G2/50-1	35400	32214	26904	24483	3617	23						1 5/8"			
2710377	CH4D3/50-1	41490	37756	31532	28694	5925	26	3 x 500	2250	3.90	54000	1 1/8"	2 1/8"	3580		
2710378	CH4E3/50-1	46640	42442	35446	32256	5767	25						2 1/8"			
2710379	CH4G3/50-1	51680	47029	39277	35742	5425	23									

Refrigerant Correction Multiplier

Refrigerant	R404A	R507	R134a	R22
Capacity Multiplier	1.0	1.0	0.91	0.95

Induced Draught Evaporators

Cabero

CH E Series - Low Temperature



Actrol recommend selection using the EN 328 SC3 capacity data.

The 35mm x 35mm inline (parallel) tube pattern removes less moisture as it operates at a higher average coil temperature. Selection at 7 KTD is usual for general purpose freezer-rooms.

Features

- Powder coated smooth aluminium case
- Venturi distributor for multiple refrigerants
- ½" smooth bore copper tubing
- Fins protected with Blue-Fin coating
- Fan/s pre-wired to IP54 junction box
- Professional in-line tube configuration
- Defrost heaters pre-wired to IP54 junction box
- Defrost termination sensor location provided
- Heater safety thermostat fitted
- Low energy fan/s
- Separate fan compartments
- Stainless steel fixings
- Flush mount ceiling brackets
- Air bypass sheet with special drainage system
- Fold down drip tray with central drain conn.

Cat. No.	Part No.	Capacity @ -25°C SST & 7 KTD : Watts	Capacity @ -24°C SST & 6 KTD : Watts	Air Flow l/s	Air Throw m	No. & Diam. of Fans	Fan Motors			Defrost Heaters 240 Volt			Connections		Overall Dim: mm		
		"R404A (EN 328 SC3)"	"R404A (EN 328)"				Total Watts	Total Amps	Heat/ 24 Hrs Total Watts	Coil No. & Watts	Drip Tray No. & Watts	Total Amps	Liq.	Suct.	Length	Depth	Height

300mm and 350mm Diameter Fan Model

2710381	CH4B1/30E-1	1590	1363	439	6	1/300	85	0.38	2040	2 x 450	1 x 450	0.90	1/2"	1/2"	850	560	470						
2710382	CH4C1/30E-1	1820	1560	428										5/8"	1050								
2710383	CH4B1/35E-1	2310	1980	689	7	1 x 350	140	0.60	3360	2 x 650	1 x 650	1.30		3/4"	1300								
2710384	CH4C1/35E-1	2950	2529	664								1.95			1050								
2710385	CH4B2/30E-1	3180	2726	878								2 x 300			170			0.76	4080	2 x 850	1 x 850	2.60	1300
	CH4D1/35E-1	3310	2837	622	6	1 x 350	140	0.60	3360	4 x 650	1 x 650	2.40		7/8"	1050								
2710386	CH4E1/35E-1	3450	2957	586											3600			3000					
2710387	CH4C2/30E-1	3650	3129	856	7	2 x 350	170	0.76	4080	2 x 850	1 x 850	3.60		5/8"	1 1/8"			3000					
2710388	CH4B2/35E-1	5040	4320	1383	9							280						1.20	6720	2 x 1200	1 x 1200	2.40	1700
2710389	CH4C2/35E-1	6100	5229	1322																		3600	
2710390	CH4D2/35E-1	6890	5906	1230	8							4 x 1200	1 x 1200			4.80	5/8"	1 1/8"	5.25				
2710391	CH4E2/35E-1	7210	6180	1183																			
2710392	CH4C3/35E-1	9080	7783	1936	10	3 x 350	420	1.80	10080	2 x 1750	1 x 1750	4.80	5/8"	1 1/8"	5.25								
	CH4D3/35E-1	10290	8820	1839																			
2710393	CH4E3/35E-1	10790	9249	1761	9	4 x 350	560	2.40	13440	4 x 2300	1 x 2300	9.20	7/8"	1 3/8"	3000								
2710394	CH4D4/35E-1	13760	11794	2439																			
2710395	CH4E4/35E-1	14900	12771	2358																			

500mm Diameter Fan Model

2710396	CH4C1/50E-1	8310	7123	2033	26	1 x 500	750	1.30	18000	3 x 850	2 x 850	3.75	5 8"	1 1 8"	1420	670	750
	CH4D1/50E-1	10300	8829	1975	25					5 x 850		4.50					
2710397	CH4E1/50E-1	10990	9420	1922	24	1 x 500	750	1.30	18000	6 x 850	2 x 850	5.25	5 8"	1 1 8"	1420	670	750
	CH4G1/50E-1	12570	10774	1808	22							6.00					
2710398	CH4C2/50E-1	17000	14571	4067	27	2 x 500	1500	2.60	36000	3 x 1650	2 x 1650	7.25	7 8"	1 5 8"	2500	670	750
	CH4D2/50E-1	20950	17957	3950	26					5 x 1650		8.70					
2710399	CH4E2/50E-1	22420	19217	3844	25	2 x 500	1500	2.60	36000	6 x 1650	2 x 1650	10.15	7 8"	1 5 8"	2500	670	750
	CH4G2/50E-1	26120	22389	3617	23							11.60					
2710400	CH4D3/50E-1	30770	26374	5925	26	3 x 500	2250	3.90	54000	5 x 2450	2 x 2450	12.90	1 1 8"	2 1 8"	3580	670	750
	CH4E3/50E-1	34820	29846	5767	25					6 x 2450		15.05					
2710403	CH4G3/50E-1	36800	31543	5425	23							17.20					

Refrigerant Correction Multiplier

Refrigerant	R404A	R507	R134a	R22
Capacity Multiplier	1.0	1.0	0.91	0.95

The ACW is a compact V form air cooled condenser series from Cabero. The ACW has an extremely small footprint with a narrow width which allows application in tight spaces. Models range from 85kW to 660kW total heat of rejection at 10KTD. For larger capacities, ACW condensers can be mounted in a W form utilising optional mounting frames. They are suitable for all common HFC refrigerants.



Features

- Powder coated zinc plated steel construction offers corrosion resistance
- The aluminium fins are protected with Blue-Fin coating
- The fins are straight to reduce fouling and improve long term efficiency
- Zeihl Abegg 800mm and 900mm fans
- Fans pre-wired to IP54 isolator switches

800mm Fan Model

Cat. No.	Model No.	Nominal Capacity: kW @ 10 KTD		Air Flow m³ / hr	Fan Data		Sound Power dBA	Net Weight kg
		R404A	R134a		Total Power Input: kW	Fan Speed: RPM		
2750443	ACW085A2.2/2L-EC	102.0	94.9	45090	3.94	950	85.9	537
2750444	ACW087A2.2/2L-EC	119.9	111.5	44570			85.7	592
2750445	ACW089A2.2/2L-EC	132.1	122.9	44070			85.5	648
2750446	ACW085A3.3/3L-EC	154.0	143.3	67630	5.91		87.7	724
2750447	ACW087A3.3/3L-EC	182.2	169.5	66850			87.5	807
2750448	ACW089A3.3/3L-EC	198.7	184.8	66110			87.3	889
2750449	ACW085A4.4/4L-EC	208.2	193.7	90180	7.88		88.9	1033
2750450	ACW087A4.4/4L-EC	240.0	223.3	89140			88.7	1140
2750451	ACW089A4.4/4L-EC	267.9	249.2	88140			88.6	1252
2750452	ACW087A5.5/5L-EC	297.5	276.7	111420	9.85		89.7	1451
2750453	ACW089A5.5/5L-EC	334.9	311.5	110180			89.5	1587
2750454	ACW087A6.6/6L-EC	364.7	339.3	133710	11.82		90.5	1718
2750455	ACW089A6.6/6L-EC	397.8	370.0	132210			90.3	1880



Condensers

Cabero

ACW Remote Air Cooled Series

The ACW is a compact V form air cooled condenser series from Cabero. The ACW has an extremely small footprint with a narrow width which allows application in tight spaces. Models range from 85kW to 660kW total heat of rejection at 10KTD. For larger capacities, ACW condensers can be mounted in a W form utilising optional mounting frames. They are suitable for all common HFC refrigerants.



Features

- Powder coated zinc plated steel construction offers corrosion resistance
- The aluminium fins are protected with Blue-Fin coating
- The fins are straight to reduce fouling and improve long term efficiency
- Zeihl Abegg 800mm and 900mm fans
- Fans pre-wired to IP54 isolator switches

900mm Fan Model

Cat. No.	Model No.	Nominal Capacity: kW @ 10 KTD		Air Flow m³ / hr	Fan Data		Sound Power dBA	Net Weight kg
		R404A	R134a		Total Power Input: kW	Fan Speed: RPM		
2750456	ACW095A2.2/2N-EC	121.1	112.7	60900	6.5	1100	91.7	537
2750457	ACW097A2.2/2N-EC	148.3	138.0	60010			91.5	592
2750458	ACW099A2.2/2N-EC	163.0	151.6	59090			91.5	648
2750459	ACW095A3.3/3N-EC	181.8	169.1	91350	9.75		93.5	724
2750460	ACW097A3.3/3N-EC	219.7	204.4	90020			93.3	807
2750461	ACW099A3.3/3N-EC	243.5	226.5	88630			93.3	889
2750462	ACW097A4.4/4N-EC	296.5	275.8	120020	13.0		94.5	1140
2750463	ACW099A4.4/4N-EC	327.2	304.4	118170			94.5	1252
2750464	ACW097A5.5/5N-EC	367.4	341.8	150030	16.3		95.5	1451
2750465	ACW099A5.5/5N-EC	405.6	377.3	147720			95.5	1587
2750466	ACW097A6.6/6N-EC	426.3	396.6	180030	19.5		96.3	1718
2750467	ACW099A6.6/6N-EC	471.5	438.6	177260			96.3	1880

Induced Draught Evaporators



Buffalo Trident

PS Series – Medium Temperature



Features

- Crisp, white powder coated evaporator panels
- Electrical components pre- wired to common connection box
- Standard coils circuited for multiple refrigerants. (No orifice change required)
- Performance optimised circuitry and distributor system with Venturi- Effect Technology
- Hinged access door both ends- easily removeable, where coil is installed close to adjacent walls
- Stainless steel fastenings
- Hinged and fully reversable drip tray
- Absolute flush mounting

Cat. No.	Part No.	Capacity @ -4°C SST & 6 KTD :Watts			Air Flow l/s	Air Throw m	No. of Fans	Fan Motors			Connections mm			Overall Dimensions mm		
		R404A	R134a	R22				Total Watts	Total Amps	Heat/ 24 Hrs Total Watts	Suct.	Dist.	Ext. Eq.	Length	Depth	Height
300mm Diameter Fan Model - Fin Series 6 236 Fins/m																
2710068	PS1M019	1130	977	1066	427	8.6	1	73	0.3	1752	12.7	15.9	6.4	676	425	425
2710069	PS1M030	1816	1571	1714	354	7.9								845		
2710070	PS1M036	2170	1877	2047	406	8.4								1057		
2710071	PS1M042	2497	2160	2356	854	10.5	2	146	0.6	3504	15.9	6.4	1438	425	425	
2710072	PS1M050	3029	2620	2858	804	10.3										
2710073	PS1M061	3659	3165	3452	708	9.8										
2710074	PS1M063	3806	3292	3591	1281	12.5	3	219	1.0	5256	15.9	6.4	1819	425	425	
2710075	PS1M077	4623	3999	4362	1206	12.3										
2710076	PS1M084	5070	4385	4784	1125	12.0										
2710077	PS1M095	5705	4935	5383	1062	11.7	4	292	1.3	7008	22.2	6.4	1819	425	425	
2710078	PS1M102	6095	5272	5751	1608	14.0										
2710081	PS1M128	7681	6644	7247	1416	13.4										
350mm Diameter Fan Model - Fin Series 6																
2710079	PS2M108	6469	5596	6104	1458	16.9	2	260	1.2	6240	15.9	15.9	6.4	1544	425	425
2710080	PS2M117	6997	6052	6602	1422	16.5								2154		
2710082	PS2M141	8475	7331	7997	2331	18.7								2764		
2710083	PS2M162	9693	8384	9146	2187	18.4	3	390	1.7	9360	28.5	22.2	6.4	3373	425	425
2710084	PS2M177	10612	9179	10013	2133	17.9										
2710085	PS2M187	11238	9721	10603	3108	21.0										
2710086	PS2M217	13029	11270	12294	2916	20.8	4	520	2.3	12480	28.5	22.2	6.4	3373	425	425
2710087	PS2M246	14749	12758	13916	2844	20.2										
2710088	PS2M276	16549	14315	15615	3645	21.7										
2710089	PS2M309	18519	16019	17474	3555	20.6	5	650	2.9	15600	28.5	22.2	6.4	3373	425	425

Capacity Correction Factors

Suction Temp. °C	-10	-8	-6	-4	-2	0	+2	+4	+6
Cap. Multiplier	0.870	0.900	0.950	1.000	1.045	1.170	1.230	1.280	1.350

Fin Series	4	5	6	7	8
Capacity Multiplier	0.82	0.91	1.00	1.06	1.12

Capacities in accordance with European Conditions, and based on -4 °c saturated suction temperature

Selection of expansion valves for models fitted with refrigerant distributors should be sized for a pressure drop of 400 kPa for R134a and 700 kPa for R22. All models require externally equalised T.X.valves.

Induced Draught Evaporators



Buffalo

Medium Temperature

Buffalo PS EVD Series



The PS1 & 2 Series Low Line Evaporators are an innovative and modern design. The EVD Ice electronic expansion valve and controller is quick and easy to commission and provides real time digital superheat display. The design is ideally suited for walk in medium temperature cool rooms and low temperature display freezer rooms where the crisp white finish compliments the quality installation on display.

Features

- Fitted with EVD Ice electronic expansion valve and controller
- Fans and EVD Ice wired to junction box
- Fitted with Ultra Cap to ensure positive closure in the event of a power failure
- Standard coils circulated for multiple refrigerants (No orifice change required)
- Performance optimised circuitry and distributor system with Venturi Effect Technology
- Hinged and fully reversible drip tray
- Hinged access door both ends- easily removeable, where coil is installed close to adjacent walls
- Absolute flush mounting
- Crisp, white powder coated evaporator panels
- Stainless steel fastenings

Cat. No.	Part No.	Capacity @ -4°C SST & 6 KTD :Watts		
		R404A	R134a	R22
300mm Diameter Fan Models - Fin Series 6				
2712759	PS1M019 EVD Ice w U/Cap	1130	977	1066
2712760	PS1M030 EVD Ice w U/Cap	1816	1571	1714
2712761	PS1M036 EVD Ice w U/Cap	2170	1877	2047
2712762	PS1M042 EVD Ice w U/Cap	2497	2160	2356
2712763	PS1M050 EVD Ice w U/Cap	3029	2620	2858
2712764	PS1M061 EVD Ice w U/Cap	3659	3165	3452
2712765	PS1M063 EVD Ice w U/Cap	3806	3292	3591
2712766	PS1M077 EVD Ice w U/Cap	4623	3999	4362
2712767	PS1M084 EVD Ice w U/Cap	5070	4385	4784
2712768	PS1M095 EVD Ice w U/Cap	5705	4935	5383
2712769	PS1M102 EVD Ice w U/Cap	6095	5272	5751
2712770	PS1M128 EVD Ice w U/Cap	7681	6644	7247
350mm Diameter Fan Models – Fin Series 6				
2712771	PS2M108 EVD Ice w U/Cap	6469	5596	6104
2712772	PS2M117 EVD Ice w U/Cap	6997	6052	6602
2712773	PS2M141 EVD Ice w U/Cap	8475	7331	7997
2712774	PS2M162 EVD Ice w U/Cap	9693	8384	9146
2712775	PS2M177 EVD Ice w U/Cap	10612	9179	10013
2712776	PS2M187 EVD Ice w U/Cap	11238	9721	10603
2712777	PS2M217 EVD Ice w U/Cap	13029	11270	12294
2712778	PS2M246 EVD Ice w U/Cap	14749	12758	13916
2712779	PS2M276 EVD Ice w U/Cap	16549	14315	15615
2712780	PS2M309 EVD Ice w U/Cap	18519	16019	17474

Induced Draught Evaporators



Buffalo Trident

PSLE Series – Low Temperature



Features

- Crisp, white powder coated evaporator panels
- Stainless steel fastenings
- Heater safety thermostat
- Electrical components pre- wired to common connection box
- Performance optimised circuitry and distributor system with Venturi- Effect Technology
- Standard coils circuited for multiple refrigerants. (No orifice change required)
- Hinged access door both ends- easily removeable, where coil is installed close to adjacent walls
- Absolute Flush Mounting
- Hinged and fully reversable drip tray

Cat. No.	Part No.	Capacity @ -24°C SST & 6 KTD :Watts			Air Flow l/s	Air Throw m	No. of Fans	Fan Motors			Defrost Heaters 240 Volt		Connections mm			Overall Dimensions mm		
		R404A	R507A	R22				Total Watts	Total Amps	Heat/24 Hrs Total Watts	Total Watts	Total Amps	Suct.	Dist.	Ext. Eq	Length	Depth	Height

300mm Diameter Fan Model – Fin Series 6 236 Fins/m

2710090	PS1LE016	981	999	926	418	8.6	1	73	0.3	1752	1060	4.4	12.7	15.9	6.4	676	425	425
2710091	PS1LE025	1486	1513	1402	347	7.9										1057		
2710092	PS1LE033	1991	2027	1879	836	10.5	2	146	0.6	3504	1960	8.2				1438		
2710093	PS1LE041	2441	2485	2303	788	10.3										1819		
2710094	PS1LE051	3047	3102	2875	694	9.8	3	219	1.0	5256	2700	11.3				15.9		
2710095	PS1LE056	3358	3419	3169	1182	12.5										22.2		
2710096	PS1LE069	4130	4204	3897	1101	12.3										15.9		
2710097	PS1LE075	4482	4562	4229	1041	12.0	4	292	1.3	7008	3580	14.9	22.2					
2710098	PS1LE083	4984	5074	4703	1576	11.7												
2710100	PS1LE099	5952	6060	5617	1388	14.0												

350mm Diameter Fan Model – Fin Series 6 236 Fins/m

2710099	PS2LE086	5151	5244	4860	1428	16.9	2	260	1.2	6240	2880	12.0	15.9	15.9	6.4	1544	425	492	
2710101	PS2LE100	6003	6111	5664	1393	16.5										2154			
2710102	PS2LE105	6300	6413	5944	2283	18.7	3	390	1.7	9360	4300	17.9	28.5			22.2			2154
2710103	PS2LE123	7410	7543	6992	2142	18.4													2764
2710104	PS2LE136	8138	8284	7678	2090	17.9													3373
2710105	PS2LE158	9462	9632	8928	3044	21.0	4	520	2.3	12480	5720	23.8							2764
2710106	PS2LE168	10079	10260	9510	2856	20.8								3373					
2710107	PS2LE191	11469	11676	10822	2786	20.2	5	650	2.9	15600	7160	29.8		28.5	22.2		6.4	3373	
2710108	PS2LE203	12187	12406	11499	3570	21.7							3373						
2710109	PS2LE233	13963	14214	13175	3483	20.6							3373						

Capacity Correction Factors

Suction Temp. °C	-40	-35	-30	-25	-24	-20	-15	-10	-5
Cap. Multiplier	0.500	0.710	0.850	0.980	1.000	1.060	1.140	1.230	1.350

Fin Series	4	5	6
Capacity Multiplier	0.82	0.91	1.00

Capacities in accordance with European Conditions, and based on -4°C saturated suction temperature

Selection of expansion valves for models fitted with refrigerant distributors should be sized for a pressure drop of 400 kPa for R134a and 700 kPa for R22. All models require externally equalised T.X.valves.

Induced Draught Evaporators



Buffalo

Low Temperature

Buffalo PSLE EVD Series

The PS1 & 2 Series Low Line Evaporators are an innovative and modern design. The EVD Ice electronic expansion valve and controller is quick and easy to commission and provides real time digital superheat display. The design is ideally suited for walk in medium temperature cool rooms and low temperature display freezer rooms where the crisp white finish compliments the quality installation on display.

Features

- Fitted with EVD Ice electronic expansion valve and controller
- Fans and EVD Ice wired to junction box
- Heater safety thermostat
- Fitted with Ultra Cap to ensure positive closure in the event of a power failure
- Standard coils circulated for multiple refrigerants (No orifice change required)
- Performance optimised circuitry and distributor system with Venturi Effect Technology
- Hinged and fully reversible drip tray
- Hinged access door both ends- easily removeable, where coil is installed close to adjacent walls
- Absolute flush mounting
- Crisp, white powder coated evaporator panels
- Stainless steel fastenings

Cat. No.	Part No.	Capacity @ -24°C SST & 6 KTD :Watts		
		R404A	R507A	R22
300mm Diameter Fan Models - Fin Series 6				
2712781	PS1LE016 w U/Cap	981	999	926
2712782	PS1LE025 w U/Cap	1486	1513	1402
2712783	PS1LE033 w U/Cap	1991	2027	1879
2712784	PS1LE041 w U/Cap	2441	2485	2303
2712785	PS1LE051 w U/Cap	3047	3102	2875
2712786	PS1LE056 w U/Cap	3358	3419	3169
2712787	PS1LE069 w U/Cap	4130	4204	3897
2712788	PS1LE075 w U/Cap	4482	4562	4229
2712789	PS1LE083 w U/Cap	4984	5074	4703
2712790	PS1LE099 w U/Cap	5952	6060	5617
350mm Diameter Fan Models – Fin Series 6				
2712791	PS2LE086 w U/Cap	5151	5244	4860
2712792	PS2LE100 w U/Cap	6003	6111	5664
2712793	PS2LE105 w U/Cap	6300	6413	5944
2712794	PS2LE123 w U/Cap	7410	7543	6992
2712795	PS2LE136 w U/Cap	8138	8284	7678
2712796	PS2LE158 w U/Cap	9462	9632	8928
2712797	PS2LE168 w U/Cap	10079	10260	9510
2712798	PS2LE191 w U/Cap	11469	11676	10822
2712799	PS2LE203 w U/Cap	12187	12406	11499
2712800	PS2LE233 w U/Cap	13963	14214	13175

Induced Draught Evaporators

Buffalo Trident



Features

- Optimised for HFC refrigerants
- Hinged fully reversible drip tray
- Internal ripple finned tube for higher heat
- Sickle blade fans statically and dynamically transfer performance and better oil return balanced, aerodynamically
- Constructed for economical and quiet operation
- Stucco embossed aluminium case
- Hinged access door both ends – easily removable where coil installed close to adjacent wall
- Dual speed 3 phase motors - 1300/1000 RPM

BBM/EBBL Series – Medium Temperature

Cat. No.	Model No.	High Speed Watts @ -4°C SST & 6KTD			Air Flow l/s	Air Throw metres	No. of 500mm Fans	Total Motor Watts on High	Total Motor Amps on High	Suction Connection mm	TX Valve Connection mm	Overall Dimensions mm									
		R22	404A	134a	High	High						Length	Depth	Height							
2709972	BBM 81	8124	8612	7572	2388	21	1	780	1.35	28.5	12.7	1260	646	903							
2709973	BBM 106	10554	11187	9836	2180					22	1610	1030									
2709974	BBM 139	13908	14742	12962	2454	23								2	1560	2.7	34.9	15.9	2210	903	
2709975	BBM 162	16249	17224	15144	4776		41.2	22.2	3160												
2709976	BBM 184	18361	19462	17112	4628					25	3	2340					4.05	54	28.5		3310
2709977	BBM 211	21108	22374	19672	4360	26								4	3120	5.4					
2709978	BBM 244	24373	25836	22716	7164		25	3	2340				4.05							54	
2709979	BBM 275	27541	29194	25668	6942	26				4	3120	5.4		54	28.5	3310	1030				
2709980	BBM 317	31661	33561	29508	6540		26	4	3120				5.4					54	28.5	3310	1030
2709981	BBM 359	35856	38007	33418	9044	26				4	3120	5.4		54	28.5	3310	1030				
2709982	BBM 412	41208	43681	38406	8456		26	4	3120				5.4					54	28.5	3310	1030

BBM/EBBL Series – Low Temperature

Cat. No.	Model No.	High Speed Watts @ -24°C SST & 6KTD			Air Flow l/s	Air Throw m	No. of 500 mm Fans	Total Motor Watts on High	Total Motor Amps on High	Suct. Connection mm	TX Valve Connection mm	Defrost Heaters		Overall Dimensions mm		
		R22	R404A	R507								Watts	Amps	Length	Depth	Height
2709983	EBBL 66	6552	6945	7076	2409	19	1	780	1.35	28.5	12.7	6000	25	1260	646	903
2709984	EBBL 85	8502	9012	9182	2213					34.9	15.9					1030
2709985	EBBL 110	11106	11772	11994	2471						22.2	8200	34.2	1610		
2709986	EBBL 131	13103	13889	14151	4818	21	2	1560	2.7	41.2	28.5	12000	50	2210	646	903
2709987	EBBL 148	14795	15683	15979	4680											
2709988	EBBL 170	17000	18024	18364	4426											
2709989	EBBL 197	19655	20834	21227	7227	23	3	2340	4.05	54	28.5	18000	75	3160	646	903
2709990	EBBL 222	22193	23524	23968	7020											
2709991	EBBL 255	25506	27036	27546	6639											
2709992	EBBL 281	28104	29790	30352	8872	24	4	3120	5.4	54	34.9	19000	79.17	3310	646	1030
2709993	EBBL 323	32280	34216	34862	8600											



ENGINEERED IN GERMANY
TO SUIT YOUR NEEDS

CH Series Evaporators

- Perfect for walk in cool rooms
- Fold down drip tray standard
- Blue coating on fins for added protection
- Available with 300, 350 and 500mm diameter fans



LPC Series Evaporators

- The low profile alternative for small rooms and reach in cabinets.



ACW Series Condensers

- Powder coated zinc plated steel construction
- Blue coating on fins for added protection
- Available with 800mm and 900mm fans

Competent. Modern. Professional.

Condensers



Buffalo Trident

RC Remote Air Cooled Series

Features

- Epoxy finned
- 4 Pole motor/s
- Vertical or horizontal airflow

Cat. No.	Part No.	Model No.	Nominal Capacities at 10 KTD				Fan Dia.: mm	Phase:
			R404A: kW		R134a: kW			
			High Fan Speed	Low Fan Speed	High Fan Speed	Low Fan Speed		
2710003	T91-201 RC-1PH-STD	RC009C	6362				350	1
2710004	T91-202 RC-1PH-STD	RC012C	8159		7459			
2710005	T91-203 RC-1PH-STD	RC013C	9251		8458			
2710006	T91-204 RC-1PH-STD	RC018C	12216		11169			
2710007	T91-205 RC-1PH-STD	RC023C	15545		14213			
2710008	T91-206 RC-1PH-STD	RC025C	17684		16168			
2710009	T91-207 RC-3PH-STD	RC019C	12823	10234	11724	9357	500	3
2710010	T91-208 RC-3PH-STD	RC024C	16582	12672	15160	11586		
2710011	T91-209 RC-3PH-STD	RC028C	18997	13897	17368	12706		
2710012	T91-210 RC-3PH-STD	RC030C	21058	15964	19253	14596		
2710013	T91-211 RC-3PH-STD	RC034C	24012	17053	21954	15591		
2710014	T91-212 RC-3PH-STD	RC037C	26278	18981	24026	17354		
2710015	T91-213 RC-3PH-STD	RC047C	33163	25345	30321	23172		
2710016	T91-214 RC-3PH-STD	RC054C	38080	29231	34816	26725		
2710017	T91-215 RC-3PH-STD	RC062C	43659	32399	39917	29622		
2710018	T91-216 RC-3PH-STD	RC074C	51575	37250	47154	34057		
2710019	T91-217 RC-3PH-STD	RC082C	56989	41693	52104	38120		
2710020	T91-218 RC-3PH-STD	RC093C	65489	48598	59875	44433		
2710021	T91-219 RC-3PH-STD	RC100C	70251	49973	64230	45689		
2710022	T91-220 RC-3PH-STD	RC109C	75984	55591	9471	50826		
2710023	T91-221 RC-3PH-STD	RC115C	80350	57126	73463	52230		

RC-EC Remote Air Cooled Series

Features

- Epoxy finned
- Pre-wired 4 pole EC fan motor/s
- Vertical or horizontal airflow
- Single phase switch

Cat. No.	Part No.	Model No.	Nominal Capacities at 10 KTD				Fan Dia.: mm	Phase:
			R404A: kW		R134a: kW			
			High Fan Speed	Low Fan Speed	High Fan Speed	Low Fan Speed		
2710291	T91-207 RC1EC	RC019C-EC	12823	10234	11724	9357	500	3
2710292	T91-208 RC1EC	RC024C-EC	16582	12672	15160	11586		
2710293	T91-209 RC1EC	RC028C-EC	18997	13897	17368	12706		
2710294	T91-210 RC1EC	RC030C-EC	21058	15964	19253	14596		
2710295	T91-211 RC1EC	RC034C-EC	24012	17053	21954	15591		
2710296	T91-212 RC1EC	RC037C-EC	26278	18981	24026	17354		
2710297	T91-213 RC1EC	RC047C-EC	33163	25345	30321	23172		
2710298	T91-214 RC1EC	RC054C-EC	38080	29231	34816	26725		
2710299	T91-215 RC1EC	RC062C-EC	43659	32399	39917	29622		
2710300	T91-216 RC1EC	RC074C-EC	51575	37250	47154	34057		
2710301	T91-217 RC1EC	RC082C-EC	56989	41693	52104	38120		
2710302	T91-218 RC1EC	RC093C-EC	65489	48598	59875	44433		
2710303	T91-219 RC1EC	RC100C-EC	70251	49973	64230	45689		
2710304	T91-220 RC1EC	RC109C-EC	75984	55591	9471	50826		
2710305	T91-221 RC1EC	RC115C-EC	80350	57126	73463	52230		

Note: This is at full speed (1100RPM).

Options

Cat. No.	Part No.	Description
2710174	1ST FMC RC DV/DH	1st Additional Condenser Circuit
2710175	2ND FMC RC DV/DH	2nd Additional Condenser Circuit
	R51000212	CBG Controller 0-10V (R134a-R404A) 30 bar
	R51000230	CBG Controller 0-10V (R410A) 50 bar

Condensers



Buffalo Trident

RC-Q Remote Air Cooled Series



Features

- Epoxy finned
- 6 Pole motor/s
- Vertical or horizontal airflow

Cat. No.	Part No.	Model No.	Nominal Capacities at 10 KTD			Fan Dia.: mm	Phase:
			R404A: kW	R134a: kW	R22		
			High Fan Speed				
2710306	T91-207 RC-3PH-Q	RC019C-Q	10002	9144	9525	500	3
2710307	T91-208 RC-3PH-Q	RC024C-Q	12436	11370	11844		
2710308	T91-209 RC-3PH-Q	RC028C-Q	13678	12505	13026		
2710309	T91-210 RC-3PH-Q	RC030C-Q	15793	14440	15041		
2710310	T91-211 RC-3PH-Q	RC034C-Q	17289	15807	16466		
2710311	T91-212 RC-3PH-Q	RC037C-Q	18395	16818	17519		
2710312	T91-213 RC-3PH-Q	RC047C-Q	24872	22740	23688		
2710313	T91-214 RC-3PH-Q	RC054C-Q	28560	26112	27200		
2710314	T91-215 RC-3PH-Q	RC062C-Q	31434	28740	29938		
2710315	T91-216 RC-3PH-Q	RC074C-Q	36102	33008	34383		
2710316	T91-217 RC-3PH-Q	RC082C-Q	41032	37515	39078		
2710317	T91-218 RC-3PH-Q	RC093C-Q	47152	43110	44906		
2710318	T91-219 RC-3PH-Q	RC100C-Q	49176	44961	46834		
2710319	T91-220 RC-3PH-Q	RC109C-Q	54709	50019	52104		
2710320	T91-221 RC-3PH-Q	RC115C-Q	56245	51424	53567		

Options

Cat. No.	Part No.	Description
2710174	1ST FMC RC DV/DH	1st Additional Condenser Circuit
2710175	2ND FMC RC DV/DH	2nd Additional Condenser Circuit



Condensers

Buffalo Trident

FMC Remote Air Cooled Series

Features

- Epoxy finned
- Vertical airflow

Cat. No.	Part No.	Model No.	Nominal Capacities at 10 KTD			Fan Dia.: mm	Phase:	Motor Type
			R404A: kW	R134a: kW	R22			
			High Fan Speed					
2710110	T52-101 EP-4P	FMC 1-3R-4P	71	64.9	67.6	630	3	4 Pole
2710111	T52-102 EP-4P	FMC 1-4R-4P	85.2	77.9	81.1			
2710112	T52-103 EP-4P	FMC 1-5R-4P	94.8	86.6	90.2			
2710113	T52-104 EP-4P	FMC 2-3R-4P	142	129.8	135.2			
2710114	T52-105 EP-4P	FMC 2-4R-4P	170.4	155.7	162.2			
2710115	T52-106 EP-4P	FMC 2-5R-4P	189.6	173.3	180.5			
2710116	T52-107 EP-4P	FMC 3-3R-4P	213	194.7	202.8			
2710117	T52-108 EP-4P	FMC 3-4R-4P	255.6	233.6	243.3			
2710118	T52-109 EP-4P	FMC 3-5R-4P	284.4	259.9	270.7			
2710119	T52-101 EP-Q	FMC 1-3R-Q	72.9	66.6	69.4	800	3	6 Pole
2710120	T52-102 EP-Q	FMC 1-4R-Q	85.4	78.1	81.3			
2710121	T52-103 EP-Q	FMC 1-5R-Q	93.2	82.2	88.7			
2710122	T52-104 EP-Q	FMC 2-3R-Q	145.8	133.3	138.8			
2710123	T52-105 EP-Q	FMC 2-4R-Q	170.8	145.1	162.6			
2710124	T52-106 EP-Q	FMC 2-5R-Q	186.4	170.4	177.5			
2710125	T52-107 EP-Q	FMC 3-3R-Q	218.7	199.9	208.2			
2710126	T52-108 EP-Q	FMC 3-4R-Q	256.2	234.2	243.9			
2710127	T52-109 EP-Q	FMC 3-5R-Q	279.6	255.6	266.2			
2710146	T52-101 EP-EC	FMC 1-3R-EC	2710146	71	64.9	67.6	EC	
2710147	T52-102 EP-EC	FMC 1-4R-EC	2710147	85.2	77.9	81.1		
2710148	T52-103 EP-EC	FMC 1-5R-EC	2710148	94.8	86.6	90.2		
2710149	T52-104 EP-EC	FMC 2-3R-EC	2710149	142	129.8	135.2		
2710150	T52-105 EP-EC	FMC 2-4R-EC	2710150	170.4	155.7	162.2		
2710151	T52-106 EP-EC	FMC 2-5R-EC	2710151	189.6	173.3	180.5		
2710152	T52-107 EP-EC	FMC 3-3R-EC	2710152	213	194.7	202.8		
2710153	T52-108 EP-EC	FMC 3-4R-EC	2710153	255.6	233.6	243.3		
2710154	T52-109 EP-EC	FMC 3-5R-EC	2710154	284.4	259.9	270.7		

Options

Cat. No.	Part No.	Description
2710174	1ST FMC RC DV/DH	1st Additional Condenser Circuit
2710175	2ND FMC RC DV/DH	2nd Additional Condenser Circuit
2710158	R72000349	Crate FMC 1 Module
2710159	R72000350	Crate FMC 2 Module
2710160	R72000351	Crate FMC 3 Module
	R51000212	CBG Controller 0-10V (R134a-R404A) 30 bar
	R51000230	CBG Controller 0-10V (R410A) 50 bar

Condensers

Buffalo Trident

Buffalo Trident
BY BITZER GROUP



Features

- Epoxy finned
- Vertical airflow

Cat. No.	Part No.	Model No.	Nominal Capacities at 10 KTD			Fan Dia.: mm	Phase:	Motor Type
			R404A: kW	R134a: kW	R22			
			High Fan Speed					
2710024	T45-101 EP-4P	LDV227B	171.5	156.8	163.3	630	3	4 Pole
2710025	T45-102 EP-4P	LDV252B	189.1	172.9	180.1			
2710026	T45-103 EP-4P	LDV273B	201.6	184.3	192			
2710042	T45-113 EP-4P	LDV302B	224.2	205	213.5			
2710027	T45-104 EP-4P	LDV340B	257.2	235.2	245			
2710028	T45-105 EP-4P	LDV378B	283.1	258.9	269			
2710029	T45-106 EP-4P	LDV409B	301.6	275.7	287.2			
2710030	T45-107 EP-4P	LDV454B	323	313.6	326.6			
2710031	T45-108 EP-4P	LDV505B	378.3	345.9	360.3			
2710032	T45-109 EP-4P	LDV547B	403.2	368.6	384			
2710033	T45-110 EP-4P	LDV568B	428.8	392	408.3			
2710034	T45-111 EP-4P	LDV631B	472.9	432.3	450.4			
2710035	T45-112 EP-4P	LDV684B	504	460.8	480			
2710239	T45-101 EP-Q	LDV227B-Q	170.2	155.6	162.1	800		6 Pole
2710240	T45-102 EP-Q	LDV252B-Q	184.7	168.9	175.9			
2710241	T45-103 EP-Q	LDV273B-Q	193.5	177	184.3			
2710242	T45-113 EP-Q	LDV302B-Q	235.9	215.7	224.6			
2710243	T45-104 EP-Q	LDV340B-Q	255.3	233.4	243.2			
2710244	T45-105 EP-Q	LDV378B-Q	276.5	252.8	163.3			
2710245	T45-106 EP-Q	LDV409B-Q	289.5	264.7	275.7			
2710246	T45-107 EP-Q	LDV454B-Q	340.4	311.2	324.2			
2710247	T45-108 EP-Q	LDV505B-Q	369.4	337.8	351.9			
2710248	T45-109 EP-Q	LDV547B-Q	387.1	353.9	368.7			
2710249	T45-110 EP-Q	LDV568B-Q	425.6	389.1	405.3			
2710250	T45-111 EP-Q	LDV631B-Q	461.8	422.2	439.8			
2710251	T45-112 EP-Q	LDV684B-Q	483.9	442.4	460.9			

Options

Cat. No.	Part No.	Description
2710176	1ST LDV/LDH VB	1st Additional Condenser Circuit
2710177	2ND LDV/LDH VB	2nd Additional Condenser Circuit
2710166	R72000187	Crate LDV/H-B 227-252-273
2710167	R72000188	Crate LDV/H-B 302-340-378-409
2710168	R72000189	Crate LDV/H-B 454-505-547
2710169	R72000190	Crate LDV/H-B 568-631-684

Condensers

Buffalo Trident

LDV Remote Air Cooled Series

Buffalo Trident
BY BITZER GROUP



Features

- Epoxy finned
- Vertical airflow

Cat. No.	Part No.	Model No.	Nominal Capacities at 10 KTD			Fan Dia.: mm	Phase:	Motor Type
			R404A: kW	R134a: kW	R22			
			High Fan Speed					
2710278	T45-101 EP-EC	LDV227B-EC	171.5	156.8	163.3			EC
2710279	T45-102 EP-EC	LDV252B-EC	189.1	172.9	180.1			
2710280	T45-103 EP-EC	LDV273B-EC	201.6	184.3	192			
2710281	T45-113 EP-EC	LDV302B-EC	224.2	205	213.5			
2710282	T45-104 EP-EC	LDV340B-EC	257.2	235.2	245			
2710283	T45-105 EP-EC	LDV378B-EC	283.1	258.9	269.6			
2710284	T45-106 EP-EC	LDV409B-EC	304.6	275.7	287.2			
2710285	T45-107 EP-EC	LDV454B-EC	343	313.6	326.6			
2710286	T45-108 EP-EC	LDV505B-EC	378.3	345.9	360.3			
2710287	T45-109 EP-EC	LDV547B-EC	403.2	368.6	384			
2710288	T45-110 EP-EC	LDV568B-EC	428.8	392	408.3			
2710289	T45-111 EP-EC	LDV631B-EC	472.9	432.3	450.4			
2710290	T45-112 EP-EC	LDV684B-EC	504	460.8	480			

Options

Cat. No.	Part No.	Description
2710176	1ST LDV/LDH VB	1st Additional Condenser Circuit
2710177	2ND LDV/LDH VB	2nd Additional Condenser Circuit
2710166	R72000187	Crate LDV/H-B 227-252-273
2710167	R72000188	Crate LDV/H-B 302-340-378-409
2710168	R72000189	Crate LDV/H-B 454-505-547
2710169	R72000190	Crate LDV/H-B 568-631-684

Condensers

Buffalo Trident

LDV-D Remote Air Cooled Series

The Delta Series has extended its family to include the optimised third generation LDV-D. Its market-leading efficiency, incorporating composite Ziehl-Abegg ZAplus - EC fan technology comprising of innovative cowling design with integrated air straightener, low sound, marine grade stucco housing and epoxy coated fin material, it is bound to have an impact on the Australian market.

Single Module

Cat. No.	Part No.	Model No.	Nominal Capacities at 10 KTD				Fans	
			R404A: kW		R134a: kW			
			Full Speed: 1100RPM	Speed: 680RPM	Full Speed: 1100RPM	Speed: 680RPM	Number	Nom Diameter mm
2710321	T56-101-EP-EC	LDV-D-6-4R-2F	150	117	138	87	2	800
2710322	T56-102-EP-EC	LDV-D-6R-2F	186	142	172	106		
2710323	T56-103-EP-EC	LDV-D-6-4R-3F	225	141	207	130	3	
2710324	T56-104-EP-EC	LDV-D-6R-3F	280	172	258	159		
2710325	T56-105-EP-EC	LDV-D-6-4R-4F	300	188	277	173	4	
2710326	T56-106-EP-EC	LDV-D-6R-4F	373	229	344	211		

Dual Module

Cat. No.	Part No.	Model No.	Nominal Capacities at 10 KTD				Fans	
			R404A: kW		R134a: kW			
			Full Speed: 1100RPM	Speed: 680RPM	Full Speed: 1100RPM	Speed: 680RPM	Number	Nom Diameter: mm
2710327	T56-107-EP-EC	LDV-D-6-4R-2F-2M	300	188	277	173	4	800
2710328	T56-108-EP-EC	LDV-D-6R-2F-2M	373	229	344	211		
2710329	T56-109-EP-EC	LDV-D-6-4R-3F-2M	450	282	415	260	6	
2710330	T56-110-EP-EC	LDV-D-6R-3F-2M	559	344	515	317		
2710331	T56-111-EP-EC	LDV-D-6-4R-4F-2M	600	376	553	347	8	
2710332	T56-112-EP-EC	LDV-D-6R-4F-2M	746	459	687	423		

Options

Cat. No.	Part No.	Description	Suits Model
2710176	1ST LDV/LDH VB	1st Additional Condenser Circuit	All LDV-D
2710177	2ND LDV/LDH VB	2nd Additional Condenser Circuit	
2710333	T56-113	LDV-D Condenser Sub-Frame Base	1M-2F
2710334	T56-114		1M-3F
2710335	T56-115		1M-4F





Condensers

Buffalo Trident

VB Remote Air Cooled Series

Features

- Epoxy finned
- Vertical airflow

Cat. No.	Part No.	Model No.	Nominal Capacities at 10 KTD			Fan Dia.: mm	Phase:	Motor Type
			R404A: kW	R134a: kW	R22			
			High Fan Speed					
2710190	T33-201 EP-Q	VB-4-4R-Q	205.8	188.1	195.9	800		6 Pole
2710191	T33-202 EP-Q	VB-4-5R-Q	223.8	204.6	213.1			
2710192	T33-203 EP-Q	VB-4-6R-Q	232.2	212.2	221.1			
2710193	T33-204 EP-Q	VB-6-4R-Q	318.4	291	303.1			
2710194	T33-205 EP-Q	VB-6-5R-Q	338.8	309.7	322.5			
2710196	T33-206 EP-Q	VB-6-6R-Q	348.8	318.8	332.1			
2710197	T33-207 EP-Q	VB-8-4R-Q	422.8	386.4	402.5			
2710198	T33-208 EP-Q	VB-8-5R-Q	451.4	412.6	429.7			
2710199	T33-209 EP-Q	VB-8-6R-Q	465.2	425.2	442.9			
2710200	T33-210 EP-Q	VB-10-4R-Q	527.6	482.2	502.3			
2710201	T33-211 EP-Q	VB-10-5R-Q	565.8	517.1	538.6			
2710202	T33-212 EP-Q	VB-10-6R-Q	580.6	530.7	552.7			

Options

Cat. No.	Part No.	Description
2710176	1ST LDV/LDH VB	1st Additional Condenser Circuit
2710177	2ND LDV/LDH VB	2nd Additional Condenser Circuit
2710170	R72000333	Crate V Block 4 Fan
2710171	R72000344	Crate V Block 6 Fan
2710172	R72000346	Crate V Block 8 Fan
2710173	R72000341	Crate V Block 10 Fan



Condensers

Buffalo Trident

VB Remote Air Cooled Series

Features

- Epoxy finned
- Vertical airflow

Cat. No.	Part No.	Model No.	Nominal Capacities at 10 KTD			Fan Dia.: mm	Phase:	Motor Type
			R404A: kW	R134a: kW	R22			
			High Fan Speed					
2710227	T33-201 EP-EC	VB-4-4R-EC	194	177.3	184.7			EC
2710228	T33-202 EP-EC	VB-4-5R-EC	214.6	196.1	204.3			
2710229	T33-203 EP-EC	VB-4-6R-EC	226.4	206.9	215.5			
2710230	T33-204 EP-EC	VB-6-4R-EC	300.6	274.7	286.2			
2710231	T33-205 EP-EC	VB-6-5R-EC	325	297.1	309.4			
2710232	T33-206 EP-EC	VB-6-6R-EC	340	310.8	323.7			
2710233	T33-207 EP-EC	VB-8-4R-EC	339.8	365.4	380.6			
2710234	T33-208 EP-EC	VB-8-5R-EC	433.2	395.9	412.4			
2710235	T33-209 EP-EC	VB-8-6R-EC	453.8	414.8	432			
2710236	T33-210 EP-EC	VB-10-4R-EC	497.4	454.6	473.5			
2710237	T33-211 EP-EC	VB-10-5R-EC	542.8	496.1	516.7			
2710238	T33-212 EP-EC	VB-10-6R-EC	566.6	517.9	539.4			

Options

Cat. No.	Part No.	Description
2710176	1ST LDV/LDH VB	1st Additional Condenser Circuit
2710177	2ND LDV/LDH VB	2nd Additional Condenser Circuit
2710170	R72000333	Crate V Block 4 Fan
2710171	R72000344	Crate V Block 6 Fan
2710172	R72000346	Crate V Block 8 Fan
2710173	R72000341	Crate V Block 10 Fan



Water Cooled Condensers

Bitzer



Fresh Water

Cat. No.	Part No.	Model No.
2711350	J13-502	K033N
2711351	J13-504	K073H
2711352	J13-508	K123H
2711353	J13-513	K203H
2711354	J13-516	K283H
2711356	J13-520	K373H
2711357	J13-526	K573H
2711358	J13-529	K813H
2711359	J13-506	K1053H
2711360	J13-509	K1353T
2711361	J13-511	K1973T
2711362	J13-518	K2923T
2711363	J13-522	K3803T
2711364	J13-525	K4803T

Salt Water

Cat. No.	Part No.	Model No.
2711365	J13-003	K033NB
2711366	J13-004	K073HB
2711367	J13-006	K123HB
2711368	J13-009	K203HB
2711369	J13-010	K283HB
2711370	J13-012	K373HB
2711371	J13-015	K573HB
2711372	J13-016	K813HB
2711373	J13-005	K1053HB
2711374	J13-007	K1353TB
2711376	J13-008	K1973TB
2711377	J13-011	K2923TB
2711378	J13-013	K3803TB
2711379	J13-014	K4803TB

Inclusions

- All condensers are supplied with angle mounting brackets above and below the vessel
- Connection for safety valve
- Plastic coated tube plates
- Liquid sight glass is standard from Model No. K123H
- Connection for vent valve from Model No. K1053H
- Plug for water outlet from Model No. K573H

Actrol Sales and Applications Engineers can assist with selection advice.

Heaters



Key

Drain

Cat. No.	Part No.	Watts	Type
294105	8132	10	PVC
294106	8133	25	
294107	8138	46	



Tecumseh

L'Unite Hermetique

Crankcase



Cat. No.	Part No.	Volts	Watts	Type	Application
2710527	CH101-40	240	54	External	AH Series
2710528	CH101-3-40	440			
2710529	CH102-40	240	60	Internal	AJ Series
2710533	8681590	480	27		FH, TAG Series

Heaters

Maneurop



Maneurop

Cat. No.	Part No.	Volts	Watts	Type	Application
2706442	7773107	230	65	External	MT/MTZ44-81, NTZ096-136 & SM/SZ084-161
2706443	7773108	230	75		MT/MTZ100-160, NTZ215-271 & SM/SZ175-185 & SH180-300
2710534	7773122	230	130		SY/SZ240-380 & SH380
2706644	120Z0459	-	27	Internal	MTZ & NTZ



Thermon

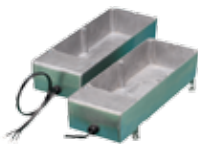
Cat. No.	Part No.	Volts	Watts	Type	Application
2701624	651-1010	240 Vac	52 at 10°C	External	Compressors up to 1200mm circumference

Kason

Kason

Heated Condensate Evaporation Pans

The CRH-600 is heated with a heat pad which is thermostatically controlled to lower the wattage automatically to conserve energy when the pan is empty.



Cat. No.	Part No.	Description
2710510	CRH-660	Cast Aluminium General Purpose

Specifications

- Dimensions: 120mm x 317mm x 73mm
- 1829mm Wire Lead, no plug
- Pan: Die-cast Aluminium pan. Stainless Steel Spring Wire Legs
- Volume: 1479ml
- Evaporation Rate: 157ml/hr

CRH
AUSTRALIA

CRH

The CRH-WRC65 is a large capacity thermostatically controlled condensate evaporation pan.



Cat. No.	Part No.	Description
2710509	CRH-WCR65	Large Condensate Evaporation Pan

Specifications

- Dimensions: 335mm x 275mm x 164mm
- 1800mm Lead, with plug
- Pan: Stainless Steel
- Volume: 6500ml
- Evaporation Rate: up to 550ml/hr

Heat Recovery Systems

BROMIC
REFRIGERATION

Bromic

IM Series Self Contained Ice Machines



Cat. No.	Model No.	Voltage	Max. Ice Production: kg/24hr	Storage Capacity: kg	Max. Ambient Temp	Dimensions: mm	Gross Weight: kg
2710673	IM23/14SSC	240	23	14	40°C	735h x 478w x 580d	43
2710674	IM40/20SSC		40	20		725h x 675w x 580d	50
2710675	IM75/38SSC		75	38		999h x 675w x 670d	75

ACTROL



Ice Making Solutions

Hotels • Restaurants • Bars • Clubs • Fast Foods
Fish Markets • Medical • Mining Sites • Manufacturing

FEATURES:

- Electromechanical – no PC boards/electronics
- Ease of use, cleaning and maintenance
- Operation in high ambient temperatures
- Italian design and manufacturing
- Two years parts and labour warranty



13g Cubes



7g Cubes



Pebbles Ice



Ice Flakes



Cold Flakes

Ice Makers



Brema

CB Series

The popular CB series produce a 13 gram solid individual rhomboid shape cube. The CB series are fully self contained incorporating an ice maker and integral insulated polyurethane foam injected bin.



Cat. No.	Model No.	Voltage	Electrical Plug Type: Amps	Ice Production: kg per day	Storage Capacity: kg	Dimensions: mm W x D x H	Shipping Weight: kg
2704161	CB184A	240	10	21	4	345 x 400 x 590	34
2704162	CB249A			28	9	390 x 460 x 690	44
2704163	CB316A			33	16	500 x 580 x 690	56
2704164	CB416A			42			60
2704165	CB425A			46	25	500 x 580 x 800	64
2704166	CB640A			65	40	738 x 600 x 920	89
2704167	CB840A			80			98
2704168	CB955A			90	55	738 x 600 x 1020	102
2704169	CB1265A		15	130	65	840 x 740 x 1075	133
2704170	CB1565A			155			138

C Series

The C series cuber heads produce the popular rhomboid shape cube in 13 grams (or with special orders – 18, 33 or 42 gram). Storage Bins should be ordered separately.



Cat. No.	Model No.	Voltage	Electrical Plug Type: Amps	Ice Production: kg per day	Dimensions: mm W x D x H	Shipping Weight: kg
2710597	C150A	240	15	155	862 x 555 x 720	128
2710598	C300A	415	32	300	1250 x 580 x 848	178

VB Series

The VB series are fully self contained & produce a 7 gram solid individual cube. It is designed for many applications including bars, restaurants, clubs, and fast food chains and is suitable for carbonated drinks.



Cat. No.	Model No.	Voltage	Electrical Plug Type: Amps	Ice Production: kg per day	Storage Capacity: kg	Dimensions: mm W x D x H	Shipping Weight: kg
2710591	VB250A	240	10	105	35	738 x 600 x 980	85

VM Series

The VM series produce solid 7gm cubes and the ice makers are equipped with vertical evaporators that with their simple design and functionality can produce up to 750kg of ice per day. These high production ice makers are rated up to 48°C ambient and the 'V' series ice is suitable for juice bars. Storage Bins should be ordered separately.



Cat. No.	Model No.	Voltage	Electrical Plug Type: Amps	Ice Production: kg per day	Dimensions: mm W x D x H	Shipping Weight: kg
2710594	VM350A	240	10	140	540 x 544 x 707	95
2710595	VM500A		15	200	770 x 550 x 805	101
2710596	VM900A		32	400		124
2710618	VM1700A	415		770	1250 x 645 x 950	242



Ice Makers

Brema

GB Series

The GB series of granulated ice flakers are fully self contained and produce ice that is suitable for fresh produce (e.g. broccoli), seafood, laboratories, leather companies, and poultry.



Cat. No.	Model No.	Voltage	Electrical Plug Type: Amps	Ice Production: kg per day	Storage Capacity: kg	Dimensions: mm W x D x H	Shipping Weight: kg
2710599	GB902A	240	10	90	20	500 x 660 x 690	67
2710619	GB903A				30	500 x 660 x 800	76
2710600	GB1555A		15	150	55	738 x 690 x 1020	105

TB Series

The TB series are under counter ice makers producing a solid pebble of ice smaller than cubed ice, ideal for cocktails and food preservation. They offer low operating costs and high efficiency ice production.

Cat. No.	Model No.	Voltage	Electrical Plug Type: Amps	Ice Production: kg per day	Storage Capacity: kg	Dimensions: mm W x D x H	Shipping Weight: kg
2706975	TB852A	240	10	85	20	500 x 660 x 690	67
2706976	TB1405A			140	50	738 x 690 x 1020	105

TM Series

The TM series produce solid pebbles of ice. Storage bins should be ordered separately.

Cat. No.	Model No.	Voltage	Electrical Plug Type: Amps	Ice Production: kg per day	Dimensions: mm W x D x H	Shipping Weight: kg
2706977	TM250A	240	10	250	560 x 569 x 695	93
2706978	TM450A		16A	440	560 x 569 x 695	113

G Series

The G series of granulated ice flakers produce ice that is suitable for fresh produce (e.g. broccoli), seafood, laboratories, leather companies, and poultry. The G series can also be purchased as a split unit. Storage Bins should be ordered separately.



Cat. No.	Model No.	Voltage	Electrical Plug Type: Amps	Ice Production: kg per day	Dimensions: mm W x D x H	Shipping Weight: kg
2710620	G150A	240	10	150	640 x 470 x 555	68
2710601	G250A		15	250	640 x 470 x 700	93
2710602	G500A			500		113
2710603	G1000A	415		1000	934 x 684 x 700	195
2710621	G500Split	240	15	500	640 x 470 x 700	75
2710622	G1000Split			1000	474 x 684 x 700	122



Ice Makers

Brema

Muster Series

The Muster series produces subzero, flat ice flakes that have an ideal thickness for all the sectors they cater for such as baking, fishing, meat, dairy and chemical industries. The Muster series produces flakes which are between -5°C and -10°C. The M350 and M800 also have the added advantage of including both an air cooled and water cooled condenser in the one machine. Storage Bins should be ordered separately.



Cat. No.	Model No.	Voltage	Electrical Plug Type Amps	Ice Production: kg per day	Dimensions: mm W x D x H	Shipping Weight: kg
2710604	M350A/W	240	15	400	900 x 588 x 705	150
2710623	M600A	415		620	900 x 588 x 705	166
2710605	M800A/W			900	1107 x 700 x 880	262
2710624	M1500A			1500	1107 x 700 x 970	342
2710625	M2000A			2200	1062 x 832 x 1423	500
2710606	M350Split			400	495 x 588 x 705	82
2710626	M600Split	240	15	620	495 x 588 x 705	89
2710607	M800Split			900	604 x 700 x 880	153
2710627	M1500Split			1500	604 x 700 x 970	160
2710628	M2000Split	415		2200	736 x 832 x 1075	328

Dispenser Series

The Brema ice dispenser series produce a 13 gram solid individual rhomboid shape cube. These units allow the user to easily dispense ice without making human contact with the product, eliminating the risk of contamination.



Cat. No.	Model No.	Voltage	Elect. Plug Type	Ice Production per day	Dimensions: mm W x D x H	Shipping Weight
	HIKU26A	240	10 Amps	26kg	395 x 530 x 790	47kg
	DSS42A			42kg	500 x 360 x 920	72kg

Bins



Cat. No.	Model No.	Bin Storage Capacity: kg	Dimensions: mm W x D x H	Shipping Weight: kg
2710610	Bin 240PE	240	942 x 795 x 1153	92
2710608	Bin 200	200	870 x 790 x 1000	74
2710609	Bin 350	350	1250 x 790 x 1100	126
2710617	Bin 550	550	1110 x 1060 x 1284	177
2710611	Single Roller Bin	125	795 x 1060 x 1284	80
2710612	Double Roller Bin 100	266	1560 x 1060 x 1484	170
2710614	Double Roller Bin 500	516	1560 x 1145 x 1780	185

Water Filter

Cat. No.	Part No.	Description	Contents
2710615	CCE10	Water Filter Assembly	Water Filter
			Pressure Limiting Valve
			1/2" & 3/4" Brass Connections
			Ball Valve
2710616	CCE100	Quick Change Water Filter Cartridge and Housing	

Drinking Water Systems



Aqua Cooler

Bottled Water Coolers - B17 & B18 Modern Round Series



Cat. No.	Model No.	Max Cooling: l/h	Cabinet	Outlet	Top
2710638	B17-11	5	White	Hot & Cold	Spike
2710639	B17-11G		Granite		
2710640	B17-11T		Titanium		
2710644	B18-11		White	Cook & Cold	
2710645	B18-11G		Granite		
2710646	B18-11T		Titanium		

B10 Traditional Square Series



Cat. No.	Model No.	Max Cooling: l/h	Cabinet	Outlet	Top
2710651	B10	5	White	Cook & Cold	Open

B22 Modern Bench Top Series



Cat. No.	Model No.	Max Cooling: l/h	Cabinet	Outlet	Top
2710652	B22-11	5	Grey & Black Sides	Cook & Cold	Spike

Water Bottles



Cat. No.	Model No.	Description
2710654	C-155	8 litre water bottle with filter
2710655	C-159	Replacement filter cartridge

Freestanding Drinking Water Fountains



Cat. No.	Model No.	Max Cooling: l/h	Cabinet	Outlet	Filtered
2702437	M2	10	Stone Colourbond	Bubbler	No
2704300	M2F			Bubbler & Glass Filler	Yes
2702438	M3				No
2704301	M3F			Bubbler	Yes
2080167	M4	19	Stainless Steel		No
2080159	M4F				Yes
2704302	M4SS				No
2080164	M4FSS				Yes
2080168	M5		Stone Colourbond	Bubbler & Glass Filler	No
2080160	M5F				Yes
2704303	M5SS		Stainless Steel		No
2080165	M5FSS				Yes
2080169	M10	26	Stone Colourbond	Bubbler	No
2704304	M10F				Yes
2704305	M10SS		Stainless Steel		No
2704306	M10FSS				Yes
2080170	M11		Stone Colourbond	Bubbler & Glass Filler	No
2701786	M11F				Yes
2704307	M11SS		Stainless Steel		No
2704308	M11FSS				Yes

WM Series Wall Mounted Water Fountains



Cat. No.	Model No.	Max Cooling: l/h	Cabinet	Outlet	Filtered
27012666	WM2	8	Stone Colourbond	Bubbler	No
2704309	WM2SS		Stainless Steel		
2704310	WM3		Stone Colourbond	Bubbler & Glass Filler	
2704311	WM3SS		Stainless Steel		

Drinking Water Systems

Aqua Cooler

Mains Connected Point of Use Water Coolers

RP Modern Round Series

Cat. No.	Model No.	Max Cooling: l/h	Cabinet	Outlet	Filtered
2710656	RP2	5	White	Cook & Cold	No
2710657	RP2F		Granite		Yes
2710658	RP2G				No
2710659	RP2GF		Yes		
2710660	RP2T		Titanium		No
2710661	RP2TF				Yes
2710662	RP3		White	Hot & Cold	No
2710663	RP3F		Granite		Yes
2710664	RP3G				No
2710665	RP3GF		Yes		
2710666	RP3T		Titanium		No
2710667	RP3TF				Yes

SP Modern Square Series

Cat. No.	Model No.	Max Cooling: l/h	Cabinet	Outlet	Filtered
2710668	SP2G	5	Granite	Cook & Cold	No
2710669	SP2GF				Yes

PB Modern Square Series

Cat. No.	Model No.	Max Cooling: l/h	Cabinet	Outlet	Filtered
2710670	PB1	5	Grey & Black Sides	Cook & Cold	No
2710671	PB1F				Yes

Mains Connected Under Bench Water Coolers

Cat. No.	Model No.	Max Cooling: l/h	Cabinet	Filtered
2704314	UB3	5	White	No
2704315	UB3F			Yes
2080172	UB1	8		No
2704312	UB1F			Yes
2080173	UB2	15		No
2704313	UB2F			Yes

Mains Connected Under Bench Water Heater

Hydra Master Series

Cat. No.	Model No.	Max Heating: l/h	Cabinet	Filtered
2710672	UH1	11.25	White	No

Mains Connected Wall Recessed Water Coolers

Cat. No.	Model No.	Max Cooling: l/h	Cabinet	Filtered
2080171	IBWR	26	Stainless Steel	No

Mains Connected Wall Mount Remote Water Coolers

Cat. No.	Model No.	Max Cooling: l/h	Filtered
2702440	WR45	26	No

Mains Connected Central Storage Remote Water Coolers

Cat. No.	Model No.	Max Cooling: l/h	Filtered
2702439	PT30	90	No

Oil Separators

Emerson



Cat. No.	Part No.	Connection ODF Solder	Capacity Ratings : kW						Dimensions mm	
			R134a		R22		R404A /R507		Overall Height	Diameter
			Evaporating Temperature °C							
			-40	5	-40	5	-40	5		
2710753	A-XW55823	3/8"	1.72	2.03	2.67	2.96	2.37	3.00	183	102
2710754	A-W55824 3/8	1/2"	3.5	6.3	5.3	7	5.3	7	260	
2710755	A-W55855 3/8	5/8"	11.2	15.8	15.8	19.3	14.1	19.3	362	
2710756	A-W55877 3/8	7/8"	16.9	22.5	24.6	28	22.9	29.9	450	
2710757	A-W55889 3/8	1 1/8"	22.5	29.9	31.7	37	29.9	38.7	533	
2710758	A-W559011 3/8	1 3/8"	28.1	40	40.4	47.5	36.9	49.2	540	
2710759	A-W569213 3/8	1 5/8"	41.5	56.3	56.3	63.3	52.7	66.8	473	152



Cat. No.	Part No.	Max Capacity kW		Connection ODF Solder	Suits Bitzer Accessible Hermetec Compr.	Dimensions mm		Min. Op. Oil Charge Lts
		R22	R404A R507			Height (less conns)	Diameter	
2710761	B36-001	15.4	16.5	7/8"	2HC to 2CC	320	168	0.87
2710762	B36-009	23.2	24.8	1 1/8"	4FC to 4CC	370		
2710763	B36-004	34.8	36.5	1 1/8"	4Z to 4V	435		
2710764	B36-011	48	50.5	1 3/8"	4T to 4H	435		
2710765	B36-010	78.3	82	1 5/8"	4G to 6F	495	220	1.8



Oil Control Accessories

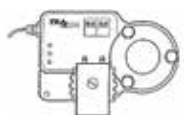
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Cat. No.	Part No.	Oil Return Connection
2710741	AA-HS	3/8" Male Flare



Traxoil

Oil Level Control System



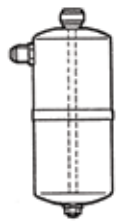
Cat. No.	Part No.	Description
2710742	TR3203	Oil level system with screw adaptor 1-1/8" UNEF
		L'Unite Hermetique FH, TFH, TAH, TAG, TAGP
		Bitzer 2KC, 2JC, 2HC, 2GC, 2FC, 2EC, 2DC, 2CC, 4FC, 4EC, 4DC, 4CC
		Bock HG22/34, HA22/34
		Dorin All H, K100CC/CS, K150CC/CS, K180CC/CS, K200CC, K230CS, K235CC, K240SB, K40CC, K50CS, K75CC/CS
		Maneurop LT, MT, SM, SZ
2710744	TR3202	Oil level system with screw adaptor 3/4" 14 NPTF
		Bitzer ZL, ZM
		Copeland ZB, ZF, ZS
2710745	TR3201	Oil level system with flange adaptor 3-4 hole
		Bock HA, HG (Except HG/HA-34/22 see TR3203 series)
		Copeland D2, D3, D4, D6, D9, 4CC, 6CC
		Dorin All KP, K sozes (except those under TR3203)
		Frascold Series A, B, D, F, S, V, Z
		Bitzer 4VC, 4TC, 4PC, 4NC, 4J, 4H, 4G, 6J, 6H, 6G, 6F, 8GC, 8FC
2710746	TR3205	Bock HA& HG with no provision for sight glass on side, F3, F4 F5, F14, F16 AM series, 04
	TR 3204	Oil level system with screw adaptor 1-1/8" 12 UNF
		Copeland DK, DL
	TR3207	Oil level system with flange adaptor 3 hole
		Copeland D8D, D8S (except D8SJ and D8SK), Terry VS
	TR3212	Oil level system with Rotalock adaptor 1-3/4" 12 UNF
		Copeland ZR90 tp ZR19M, ZR250 to ZR380, ZRT180K to 30K



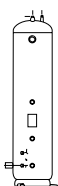
Liquid Receivers

Tecumseh

L'Unite Hermetique



Cat. No.	Part No.	Volume: Lts	Inlet Connection	Rotalock Size	Height: mm	Diameter: mm
2710779	8380142	0.75	1/4" Tube	N/A	205	77
2710780	8661567	1.5	Rotalock valve	1"	248	101
2710781	8661566	2.35			280	124
2710784	8380159	3.9			383	125
2710782	8380160	6			311	169
2710783	8380157	9.5		1 1/4"	504	
2710785	8380156	12			604	



Bitzer

Cat. No.	Part No.	Pump Down Capacity: Kg		Inlet Connection	Outlet Connection	Height: mm	Dia.: mm
		R22	R404A				
2710776	RV73	28	25	3/4" Rotalock	3/4" Rotalock	920	220
	RV80	42	37	1 1/8" Rotalock	1 1/8" Rotalock	1200	220
2710777	RV221	90	79.4	1 3/8" Rotalock	1 3/8" Rotalock	1160	356

Suction Accumulators



Emerson

Cat. No.	Part No.	Connection ODF Solder	Capacity: kW – Evaporating Temperature: °C									Liquid Holding Capacity* kg	Weight kg
			R134a			R22			R404A / R507				
			-18	-7	5	-18	-7	5	-18	-7	5		
2710800	A-AS-384	1/2"	2.1	2.8	4.2	3.2	4.9	7	2.8	3.5	4.6	0.9	0.8
2710801	A-AS-3125	5/8"	2.8	4.2	6	4.9	7.4	10.5	4.2	5.6	7	1.4	1
2710802	A-AS-3126	3/4"	3.5	5.6	8.1	6.3	9.8	14	5.3	7	9		
2710803	A-AS-596		2.4										
2710804	A-AS-597	7/8"	6.3	9.8	14	11.6	18	25.7	9.5	12.7	16.2	2.7	2.4
2710805	A-AS-5126	3/4"	3.5	5.6	8.1	6.3	9.8	14	5.3	7	9		
2710806	A-AS--5127	7/8"	6.3	9.8	14	11.6	18	25.7	9.5	12.7	16.2	4	3.6
2710807	A-AS-5137		3.7										
2710808	A-AS-5139	1 1/8"	10.9	17.6	25.3	18.6	29.2	41.5	15.5	20.7	26.7	4.3	3.7
2710809	A-AS-5179		3.8										
2710810	A-AS-51711	1 3/8"	16.2	25.7	37.6	29.9	46.4	66	25.3	33.8	43	5.4	3.8
2710811	A-AS-61411		5.6										
2710812	A-AS-62013	1 5/8"	25.7	41	60	45	70	100	37.6	50	64	9	7.4

*Holding Capacity of R22 at 4°C Evaporator Temperature.



Bitzer

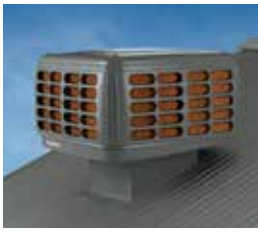
Cat. No.	Part No.	Model No.	Connection ODF Solder
2710797	B40-060	SXE-118	Solder
2710796	B40-061	SXE-138	1 3/8"
2710798	B40-062	SXE-158	1 5/8"
2710799	B40-063	SXE-218	2 1/8"
	B40-064	SXE-258	2 5/8"
	B40-065	SXE-300	3"



Acpar

Cat. No.	Part No.	Description	Connection	Length
2710775	116-06	Copper Spun Accumulator	3/8"	230mm

kaden° Kaden



Evaporative Cooler Range

Combining innovative features with intelligent design, Kaden gives you precise control of your home environment. Engineered specifically for Australia's long, harsh summers, Kaden delivers enduring performance matched with whisper quiet operation. Made to last, every Kaden Evaporative Cooler comes with a full 5 year warranty plus the option of extending for a further two years.

Classic

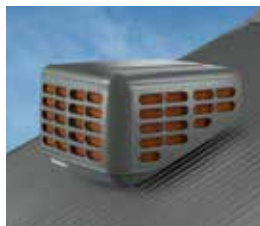
Features

- High efficiency cooling pads
- Automatic WinterSeal to prevent heat escaping in winter
- Extra airflow
- Smart Water Management System
- Pre-wet function
- Self-cleaning water pump
- Super quiet axial fan
- Fan Speed Sensing
- Ventilation only setting

Cat. No.	Model No.	Description	Airflow L/s @80 PA	Motor (Watts)	Length (mm)	Width (mm)	Height Front (mm)	Dry Weight (kg)	Operating Weight (kg)	Dropper Duct Connection (mm)
1621245	KC17	KADEN EVAP COOLER CLASSIC KC17 CHARCOAL	1790	750	1100	1100	597	48	63	550 x 550
1621246	KC17	KADEN EVAP COOLER CLASSIC KC17 TERRA RED								
1621247	KC17	KADEN EVAP COOLER CLASSIC KC17 BEIGE								
1621248	KC21	KADEN EVAP COOLER CLASSIC KC21 CHARCOAL	2190				682	51	66	
1621249	KC21	KADEN EVAP COOLER CLASSIC KC21 TERRA RED								
1621250	KC21	KADEN EVAP COOLER CLASSIC KC21 BEIGE								
1621251	KC27	KADEN EVAP COOLER CLASSIC KC27 CHARCOAL	2795	950			945	64	79	
1621252	KC27	KADEN EVAP COOLER CLASSIC KC27 TERRA RED								
1621253	KC27	KADEN EVAP COOLER CLASSIC KC27 BEIGE								
1621254	KC32	KADEN EVAP COOLER CLASSIC KC32 CHARCOAL	3290	1000			945	64	79	
1621255	KC32	KADEN EVAP COOLER CLASSIC KC32 TERRA RED								
1621256	KC32	KADEN EVAP COOLER CLASSIC KC32 BEIGE								

Evaporative Coolers

kaden° Kaden



Low Profile

Features

- High efficiency cooling pads
- Automatic WinterSeal to prevent heat escaping in winter
- Low profile sloping base
- Smart Water Management System
- Pre-wet function
- Self-cleaning water pump
- Super quiet axial fan
- Fan Speed Sensing
- Ventilation only setting

Cat. No.	Model No.	Description	Airflow L/s @80 PA	Motor (Watts)	Length (mm)	Width (mm)	Height Front (mm)	Height Back (mm)	Dry Weight (kg)	Operating Weight (kg)	Dropper Duct Connection (mm)	
1621257	KL16	KADEN EVAP COOLER LOW PRO KL16 CHARCOL	1695	750	1100	1100	597	400	47	59	550 x 550	
1621258	KL16	KADEN EVAP COOLER LOW PRO KL16 TERRA RED										
1621259	KL16	KADEN EVAP COOLER LOW PRO KL16 BEIGE										
1621260	KL22	KADEN EVAP COOLER LOW PRO KL16 CHARCOL	2210				682		400	48		60
1621261	KL22	KADEN EVAP COOLER LOW PRO KL22 TERRA RED										
1621262	KL22	KADEN EVAP COOLER LOW PRO KL22 BEIGE										
1621263	KL25	KADEN EVAP COOLER LOW PRO KL25 CHARCOAL	2505				945		51	62		
1621264	KL25	KADEN EVAP COOLER LOW PRO KL25 TERRA RED										
1621265	KL25	KADEN EVAP COOLER LOW PRO KL 25 BEIGE										
1621266	KL28	KADEN EVAP COOLER LOW PRO KL28 CHARCOAL	2890	1000			945	51	63			
1621267	KL28	KADEN EVAP COOLER LOW PRO KL28 TERRA RED										
1621268	KL28	KADEN EVAP COOLER LOW PRO KL28 BEIGE										

Air Conditioners

Mitsubishi Heavy Industries

Wall Mount Split Heat Pump R410A Inverter



Cat. No.	Model No.	Capacity: kW		Pipe Sizes: mm	
		Cool	Heat	Liquid	Gas
1621093	DXK06ZM-S	2.0	2.7	6.35	9.52
1621096	DXK09ZMA-S	2.5	3.2		
1621099	DXK12ZMA-S	3.3	4.0		12.70
1621102	DXK18ZMA-S	5.0	5.8		
1621105	DXK21ZMA-S	6.3	7.1		15.88
1621108	DXK24ZMA-S	7.1	8.0		
1621111	DXK28ZMA-S	8.0	9.0		15.88
1621114	DXK32ZMA-S	9.2	10.0		

Wall Mount Split Heat Pump R410A Inverter

Cat. No.	Model No.	Capacity: kW		Pipe Sizes: mm	
		Cool	Heat	Liquid	Gas
1600054	SRK20ZJ-S	2.0	2.7	6.35	9.52
2703063	SRK25ZJ-S	2.5	3.2		
2703065	SRK35ZJ-S1	3.3	4.0		12.7
1620658	SRK50ZJ-S	5.0	5.8		
1620668	SRK63ZK-S	6.3	7.1		15.88
1620669	SRK71ZK-S	7.1	8.0		
1620671	SRK80ZL-S	8.0	9.0		15.88
1620672	SRK92ZL-S	9.2	10.0	9.52	

Wall Mount Split Heat Pump R410A Inverter Hi EER/COP

Cat. No.	Model No.	Capacity: kW		Pipe Sizes: mm	
		Cooling	Heating	Liquid	Gas
1602464	SRK20ZJX-S	2.0	2.5	6.35	9.52
1602459	SRK25ZJX-S	2.55	3.13		
1602460	SRK35ZJX-S	3.5	4.3		12.7
1602462	SRK50ZJX-S1	5.0	6.0		
1602465	SRK60ZJX-S1	6.0	6.8		

Wall Mount Split Cool Only R410A Inverter



Cat. No.	Model No.	Capacity: kW	Pipe Sizes: mm	
		Cool	Liquid	Gas
1602467	SRK10YJ-S	2.5	6.35	9.52
1602469	SRK18YJ-S	5.0		12.7

Floor Console Split Heat Pump R410A Inverter

Cat. No.	Model No.	Capacity: kW		Pipe Sizes: mm	
		Cooling	Heating	Liquid	Gas
1602470	SRF25ZJX-S	2.5	3.4	6.35	9.52
1602471	SRF35ZJX-S	3.5	4.5		
1602472	SRF50ZJX-S1	5.0	6.0		12.7

Control Options

Cat. No.	Part No.	Description
1603165	RC-E5	Wired Remote Controller - 2 Wire
1602139	SC-BIKN-E	Interface Kit for SRK, ZJ, ZJX & DXK to RC-E5

Mitsubishi Heavy Industries (MHI) manufactures a wide range of Air Conditioners. Specifications are continually being upgraded as technology changes. Please contact us for the latest information on the MHI product range. Equivalent model may be supplied in lieu of model requested.



Air Conditioners

Mitsubishi Heavy Industries

Multi Head Heat Pump R410A Inverter

Outdoor Units



Cat. No.	Model No.	Capacity: kW		Connect	Max kW Cool Connect	Largest kW Indoor Connect
		Cooling	Heating			
1602474	SCM40ZJ-S1	4.0	4.5	2 Indoor	6.0	3.5
1602475	SCM50ZJ-S1	5.0	6.0	2~3 Indoor	8.5	5.0
1602476	SCM60ZJ-S1	6.0	7.0		11.0	6.0
1602473	SCM71ZJ-S1	7.1	8.6	2~4 Indoor	12.5	
1602477	SCM80ZJ-S1	8.0	9.5		13.5	
1602478	SCM100ZJ-S1	10.0	12.0	4-5 Indoor	16.0	7.1
1602479	SCM125ZJ-S1	12.5	13.5	4-6 Indoor	19.5	

Indoor Units

SRK-Z Wall Mount



Cat. No.	Model No.	Capacity: kW	
		Cooling	Heating
1603131	SRK20ZMA-S	2.0	3.0
1603133	SRK25ZMA-S	2.5	3.4
1603135	SRK35ZMA-S	3.5	4.5
1603137	SRK50ZMA-S	5.0	5.8
1603141	SRK71ZMA-S	7.1	8.6

Cassette Units

Cat. No.	Model No.	Capacity: kW	
		Cooling	Heating
1602483	FDTC25VF	2.5	3.4
1602484	FDTC35VF	3.5	4.5
1602485	FDTC50VF	5.0	5.8
1602486	FDTC60VF	6.0	6.8

*Control not included and must be ordered separately

SRK-ZJX Wall Mount



Cat. No.	Model No.	Capacity: kW	
		Cooling	Heating
1602513	SRK20ZJX-S	2.0	3.0
1602514	SRK25ZJX-S	2.5	3.4
1602515	SRK35ZJX-S	3.5	4.5
1602516	SRK50ZJX-S1	5.0	5.8
1602517	SRK60ZJX-S1	6.0	6.8

Bulk Head Units (low static)

Cat. No.	Model No.	Capacity: kW	
		Cooling	Heating
1602487	SRR25ZJ-S	2.5	3.4
1602488	SRR35ZJ-S	3.5	4.5
1602489	SRR50ZJ-S	5.0	5.8
1602490	SRR60ZJ-S	6.0	6.8

Floor Type Units

Cat. No.	Model No.	Capacity: kW	
		Cooling	Heating
1602480	SRF25ZJX-S	2.5	3.4
1602481	SRF35ZJX-S	3.5	4.5
1602482	SRF50ZJX-S1	5.0	5.8

Mitsubishi Heavy Industries (MHI) manufactures a wide range of air conditioners. Specifications are continually being upgraded as technology changes. Please contact us for the latest information on the MHI product range. Equivalent models may be supplied in lieu of models requested.

Superior technology that **outlasts and outperforms**

For the smallest bedrooms and home living areas to the largest commercial spaces and high rise developments there is a **heavy duty, energy efficient, quiet and reliable** Mitsubishi Heavy Industries air conditioner suitable to your needs.

SR-DX Series

Wall Split
Floor Consoles
Multi Split Systems

HyperInverter

- Wall Split Systems SRK - DXK 1.7~9.2kW
- Wall Split Systems SRK HiCOP 2.0~6.0kW
- Floor Type System SRF 2.5~5.0kW
- RAC Multi SCM Series 7 outdoor units 4.0~12.5kW



FD Series

Ducted, Cassette
& Console

HyperInverter

- Single Phase Units 5.0~14.0kW
- Three Phase Units 14.0kW ~ 20.0kW



KX Series

Variable Refrigerant
Flow

HyperInverter

- Heat Pump Systems 24 Models 11.2~136.0kW
- Heat Recovery Systems 21 Models 22.4~136.0kW
- Indoor Units 16 Types 78 Models
- Superlink BMS Interface



MITSUBISHI
HEAVY INDUSTRIES

AIR CONDITIONING

Air Conditioners



Mitsubishi Heavy Industries

Cassette Heat Pump R410A Inverter

Wired Control

Infrared Control



Cat. No.	Model No.	Capacity: kW	
		Cool	Heat
1602493	FDT60ZJXVD	5.6	6.7
1621117	FDT71VNXVD	7.1	8.0
1621119	FDT100VNVVD	10.0	11.2
1621121	FDT125VNXVD	12.5	14.0
1621123	FDT140VNXVD	14.0	16.0

Cat. No.	Model No.	Capacity: kW	
		Cool	Heat
1602499	FDT60ZJXVD	5.6	6.7
1602458	FDT71VNXVD	7.1	8.0
1602461	FDT100VNVVD	10.0	11.2
1602501	FDT125VNXVD	12.5	14.0
1602502	FDT140VNXVD	14.0	16.0

Cassette Compact Heat Pump R410A Inverter

Wired Control

Infrared Control

Cat. No.	Model No.	Capacity: kW	
		Cool	Heat
1602503	FDTC50ZJX-S	5.0	5.4

Cat. No.	Model No.	Capacity: kW	
		Cool	Heat
1602504	FDTC50ZJX-S	5.0	5.4

Ducted Heat Pump

50 ~ 85Pa Wired Control



Cat. No.	Model No.	Capacity: kW	
		Cool	Heat
1602508	FDUM50ZIXVD	5.0	5.4
1602509	FDUM60ZIXVD	5.6	6.7
1602510	FDUM71VNXVF	7.1	8.0

10 ~ 200Pa Wired Control



Cat. No.	Model No.	Capacity: kW	
		Cooling	Heating
1602416	FDDA71VNXVF	7.1	8.0
1602417	FDDA100VNVF	10.0	11.2
1620549	FDDA125VNXVF	12.5	14.0
1620550	FDDA140VNXVF	14.0	16.0
1602418	FDDA160VSVF	16.0	18.0

Cat. No.	Model No.	Capacity: kW	
		Cooling	Heating
2706808	DXU24VNXVF	7.1	8.0
2706809	DXU34VNVF	10.0	11.2
2706810	DXU43VNXVF	12.5	14.0
2706811	DXU48VNXVF	14.0	16.0
2706812	DXU55VSVF	16.0	18.0

Under Ceiling Heat Pump R410A Inverter

Wired Control



Cat. No.	Model No.	Capacity: kW	
		Cool	Heat
1602511	FDEN100VNVVD	10.0	11.2
1602491	FDEN125VNXVD	12.5	14.0

Infrared Control

Cat. No.	Model No.	Capacity: kW	
		Cool	Heat
1602512	FDEN100VNVVD	10.0	11.2
1602492	FDEN125VNXVD	12.5	14.0

Control Options

Cat. No.	Model No.	Description
1602141	CnT Connector	Card connector flying leads
1603166	RC-EX1A	EcoTouch Controller
1603165	RC-E5	Wired Remote Control - 2 Wire
1602137	SC-ADNA-E	Superlink Interface - RC-E5

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Air Conditioners

Mitsubishi Heavy Industries

VRF Systems (Variable Refrigerant Flow) - Outdoor Units
Single units up to 68kW - Combined modules achieve up to 136kW



KX6 Compact 2 Pipe Multi Heatpump

Cat. No.	Model No.	Capacity: kW
1602067	FDC112HKXEN6	11.2
1602068	FDC140HKXEN6	14.0
1602069	FDC155HKXEN6	15.5



Cat. No.	Model No.	Capacity: kW
1602070	FDC224KXE6	22.4
1602071	FDC280KXE6	28.0
1602072	FDC335KXE6	33.5



KX6 2 Pipe Multi Heatpump

Cat. No.	Model No.	Capacity: kW
1602073	FDC335KXE6-K*	33.5
1602074	FDC400KXE6	40.0
1602075	FDC450KXE6	45.0
1602076	FDC504KXE6	50.4
1602077	FDC560KXE6	56.0
1602078	FDC560KXE6-K*	56.0
1602079	FDC615KXE6	61.5
1602080	FDC680KXE6	68.0

* Combination



KXR6 3 Pipe Multi Heat Recovery

Cat. No.	Model No.	Capacity: kW
1602081	FDC224KXRE6	22.4
1602082	FDC280KXRE6	28.0
1602083	FDC335KXRE6	33.5
1602084	FDC335KXRE6-K	33.5
1602085	FDC400KXRE6	40.0
1602086	FDC450KXRE6	45.0
1602087	FDC504KXRE6	50.4
1602088	FDC560KXRE6	56.0
1602089	FDC560KXRE6-K	56.0
1602090	FDC615KXRE6	61.5
1602091	FDC680KXRE6	68.0

* Combination

KX & KXR System Commissioning

Cat. No.	Model No.	Description
1602092	KXR SYS COMM	3 Hours Assistance

Selection and application of VRF systems must be referred to Actrol to obtain specific piping and wiring schematics prior to ordering. Commissioning must be completed with Mente PC software by an approved agent - this is a chargeable service. Mitsubishi Heavy Industries (MHI) manufactures a wide range of air conditioners. Specifications are continually being upgraded as technology changes. Please contact us for the latest information on the MHI product range. Equivalent models may be supplied in lieu of models requested.

Air Conditioners

Mitsubishi Heavy Industries

VRF Systems (Variable Refrigerant Flow) - Indoor Units

Wall mount



Cat. No.	Model No.	Capacity: kW
1602093	FDK22KXE6	2.2
1602094	FDK28KXE6	2.8
1602095	FDK36KXE6	3.6

Cat. No.	Model No.	Capacity: kW
1602096	FDK45KXE6	4.5
1602097	FDK56KXE6	5.6
1602098	FDK71KXE6	7.1

4 Way Cassette



Cat. No.	Model No.	Capacity: kW
1602099	FDT28KXE6	2.8
1602100	FDT36KXE6	3.6
1602101	FDT45KXE6	4.5
1602102	FDT56KXE6	5.6
1602103	FDT71KXE6	7.1

Cat. No.	Model No.	Capacity: kW
1602104	FDT90KXE6	9.0
1602105	FDT112KXE6	11.2
1602106	FDT140KXE6	14.0
1602107	FDT160KXE6	16.0

4 Way Compact Cassette



Cat. No.	Model No.	Capacity: kW
1602108	FDTC22KXE6	2.2
1602109	FDTC28KXE6	2.8
1602110	FDTC36KXE6	3.6

Cat. No.	Model No.	Capacity: kW
1602111	FDTC45KXE6	4.5
1602112	FDTC56KXE6	5.6

1 Way Blow Cassette



Cat. No.	Model No.	Capacity: kW
1602113	FDTQ22KXE6	2.2
1602114	FDTQ28KXE6	2.8
1602115	FDTQ36KXE6	3.6

Cat. No.	Model No.	Capacity: kW
1602116	FDTQ45KXE6	4.5
1602117	FDTQ71KXE6	7.1

Ducted Fan Coil Unit (FCU) (50-130Pa)



Cat. No.	Model No.	Capacity: kW
1602118	FDU71KXE6	7.1
1602119	FDU90KXE6	9.0

Cat. No.	Model No.	Capacity: kW
1602120	FDU112KXE6	11.2
1602121	FDU140KXE6	14.0
	FDUA160KXE6	16.0 kW

High Static Ducted Fan Coil Unit (FCU) (100-200Pa)



Cat. No.	Model No.	Capacity: kW
1602122	FDU224KXE6	22.4

Cat. No.	Model No.	Capacity: kW
1602123	FDU280KXE6	28.0

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Air Conditioners



Mitsubishi Heavy Industries

VRF Systems (Variable Refrigerant Flow) - Indoor Units



Ducted Fan Coil Unit (FCU) (50-90Pa)

Cat. No.	Model No.	Capacity: kW	Cat. No.	Model No.	Capacity: kW
1602124	FDUM22KXE6	2.2	1602129	FDUM71KXE6	7.1
1602125	FDUM28KXE6	2.8		FDUM90KXE6	9.0
1602126	FDUM36KXE6	3.6		FDUM112KXE6	11.2
1602127	FDUM45KXE6	4.5		FDUM140KXE6	14.0
1602128	FDUM56KXE6	5.6			

Low Profile Ducted FCU (Low Static)

Cat. No.	Model No.	Capacity: kW
	FDUT22KXE6	2.2kW
	FDUT28KXE6	2.8kW
	FDUT36KXE6	3.6kW
	FDUT45KXE6	4.5kW
	FDUT56KXE6	5.6kW
	FDUT71KXE6	7.1kW



Compact Ducted Fan Coil Unit (FCU)

Cat. No.	Model No.	Capacity: kW	Cat. No.	Model No.	Capacity: kW
	FDUH22KXE6	2.2		FDUH36KXE6	3.6
	FDUH28KXE6	2.8			

Selection and application of VRF systems must be referred to Actrol to obtain specific piping and wiring schematics prior to ordering. Commissioning must be completed with Mente PC software by an approved agent - this is a chargeable service. Mitsubishi Heavy Industries (MHI) manufactures a wide range of air conditioners. Specifications are continually being upgraded as technology changes. Please contact us for the latest information on the MHI product range. Equivalent models may be supplied in lieu of models requested.

Air Conditioners

Mitsubishi Heavy Industries

Controls and Accessories

Individual Remote

Cat. No.	Model No.	Description	
1603165	RC-E5	Wired Remote Control	2 Wire
1603167	RCH-E3	Simple Wired Remote Control	
1603166	RC-EX1A	EcoTouch Controller	

Controller Wireless Kits

Cat. No.	Model No.	Description
1603169	RCN-T-36W-E	FDT
1602138	RCN-TC-24W-ER	FDT
	RCN-E-E	FDE
	RCN-K-E	FDK
	RCN-K71-E	FDK 7.1 and above
1603168	RCN-KIT3-E	General Use

Superlink Network Controllers

Cat. No.	Model No.	Description
1602143	SC-SL1N-E	Central Controller
1602144	SC-SLA2N-E	Centralized Controller
1602145	SC-SL3N-AE	

Cat. No.	Model No.	Description
1602146	SLA3R-BX	Mounting Box for SC-SLA3N
1602147	CONT COMM	Controls Commissioning Assistance 5hrs

Accessories

Cat. No.	Model No.	Description
1602148	SC-THB-E3	Remote Sensor
	U-FCRA	Fan Speed Controller
	U-FCRB	

Pipe Kits

Cat. No.	Model No.	Description
1602149	DIS-22-1	HP Branch Pipe Kit
1602150	DIS-180-1	
1602151	DIS-371-1	
1602152	DIS-540-1	
1602153	DOS-2A-1	HP Outdoor Branch Pipe Kit
1602154	HEAD4-22-1	4 Port
1602155	HEAD6-180-1	6 Port
1602156	HEAD8-371-1	8 Port
1602157	HEAD8-540-1	54.0kW up

Cat. No.	Model No.	Description
1602158	DIS-22-1-R	HR Branch Pipe Kit
1602159	DIS-180-1-R	
1602160	DIS-371-1-R	
1602161	DIS-540-1-R	
1602162	DOS-2A-1-R	HR Outdoor Branch Pipe Kit

KX6 Refrigerant Flow Controllers Interfaces

Cat. No.	Model No.	Description
1602163	PFD1123-E	Single Refrig. Contr.
1602164	PFD1123X4-E	Multi Refrig. Contr.
1602165	PFD1803-ER	Single Refrig. Contr.
1602166	PFD2803-ER	18.0kW up
	PFD-15WR-E	Wiring Extension for PFD 15m

Cat. No.	Model No.	Description
1602139	SC-BIKN-E	Interface Kit for SRK, ZJ, ZJX & DXK to RC-5E
1602141	CnT Connector	Card connector flying leads
1602137	SC-ADNA-E	Superlink Interface - RC-E5

Filter Kits

Cat. No.	Model No.	Description
	UM-FL1E	Filter Kit for FDUM
	UM-FL2E	
	UM-FL3E	
	QS-FL1E	Filter Kit for FDQS

Air Conditioners

HITACHI Hitachi

Wall Mounted Split Air Conditioners

The Hitachi wall mounted split air conditioners all utilise a twin inverter rotary compressor for a smoother quieter operation.



Cat. No.	Model No.	Capacity: kW		Pipe Sizing	
		Cool	Heat	Liquid	Gas
2750239	RAS25YHA5KIT	2.5	3.2	6.35	9.5
2750240	RAS35YHA6KIT	3.5	4.0	6.35	9.5
2750472	RAS50YHA4KIT	5.0	6	6.35	12.7
2750473	RAS60YHA4KIT	6.0	7	6.35	12.7
2750474	RAS70YHA4KIT	7.0	8	6.35	15.88
2750475	RAS80YHA4KIT	8.0	9	6.35	15.88

Floor Console Split Air Conditioners

The Hitachi floor console split air conditioner utilises a twin inverter rotary compressor for a smoother quieter operation.



Cat. No.	Model No.	Capacity: kW		Pipe Sizing	
		Cool	Heat	Liquid	Gas
2705209	RAF50NXA1KIT	5.0	6.0	6.35	12.7

Cassette Split Air Conditioners



Cat. No.	Model No.	Capacity: kW		Pipe Sizing	
		Cool	Heat	Liquid	Gas
2750169	RCI-2.0FSN3KIT	5.0	5.6	6.35	12.7
2750170	RCI-2.5FSN3KIT	5.6	6.3	6.35	12.7
2705172	RCI-3.0FSN3KIT	7.1	8.0	9.52	15.88
2705173	RCI-4.0FSN3KIT	10.0	11.2	9.52	15.88
2705174	RCI-5.0FSN3KIT	12.5	14.0	9.52	15.88
2705580	RCI-6.0FSN3KIT	13.0	16.0	9.52	15.88

Ducted



Cat. No.	Model No.	Capacity: kW		Pipe Sizing	
		Cool	Heat	Liquid	Gas
2750167	RPI-2.0FSNSQKIT	5.0	5.6	6.35	12.7
2750168	RPI-2.5FSNSQKIT	5.6	6.3	6.35	12.7
2705178	RPI-3.0FSN2SQKIT	7.1	8.0	9.52	15.88
2705179	RPI-4.0FSN2SQKIT	10.0	11.2	9.52	15.88
2705180	RPI-5.0FSN2SQKIT	12.5	14.0	9.52	15.88
2705181	RPI-6.0FSN2SQKIT	13.0	16.0	9.52	15.88
2705182	RPI-7.0FSN2SQKIT	16.0	18.0	9.52	15.88



Air Conditioners

Midea

Wall Mount Split Systems

Fairwind Inverter Series

The new Fairwind inverter series will replace the Corona inverter series.



Cat. No.	Model No.	Capacity: kW		Connections	
		Cool	Heat	Liquid	Gas
2706814	FMV09DR	2.45	2.7	1/4"	3/8"
2706817	FMV12DR	3.5	3.7	1/4"	1/2"
2706820	FMV18DR	5.0	5.3	1/4"	1/2"
2706823	FMV24DR	6.7	6.7	3/8"	5/8"

Oasis Inverter Series



Cat. No.	Model No.	Capacity: kW		Connections	
		Cool	Heat	Liquid	Gas
1602383	MORC09	2.5	2.6	1/4"	3/8"
1602384	MORC12	3.25	3.15	1/4"	1/2"
1602385	MORC14	4.25	4.3	1/4"	1/2"
1602386	MORC18	5	5.3	1/4"	1/2"
1602387	MORC24	6.9	7.4	3/8"	5/8"
1602388	MORC28	7.9	8.3	3/8"	5/8"

Fairwind Fixed Speed Series



Cat. No.	Model No.	Capacity: kW		Connections	
		Cool	Heat	Liquid	Gas
1602404	MEF09	2.7	2.8	1/4"	3/8"
1602405	MEF12	3.5	3.5	1/4"	1/2"
1602406	MEF18	5.1	5.3	1/4"	1/2"
1602407	MEF24	6.4	7	3/8"	5/8"

Room Air Conditioners

- Reverse Cycle

- Remote Control Included



Cat. No.	Model No.	Capacity: kW		Dimensions: mm		
		Cool	Heat	Width	Depth	Height
1602370	MWF09HB4	2.6	2.35	600	560	380
1602371	MWF12HB4	3.5	3.2	660	680	428
1602372	MWF18HB4	5.5	4.7	660	780	428

Air Conditioners

Midea

Multi Head Systems

Outdoor Units



Cat. No.	Model No.	Capacity: kW		Connections		Max No of Heads
		Cool	Heat	Liquid	Gas	
304216	M2OC18HRDN1	5.2	6.1	2 x 1/4"	2 x 3/8"	2
304217	M3OC27HRDN1	7.9	8.8	3 x 1/4"	3 x 3/8"	3
304218	M4OC27HRDN1	7.9	8.8	4 x 1/4"	4 x 3/8"	4
304219	M5OC36HRDN1	10.5	11	5 x 1/4"	5 x 3/8"	5
1602408	MM4OC36	10.5	11	5 x 1/4"	5 x 3/8"	4

Indoor Units Wall Mount



Cat. No.	Model No.	Capacity: kW		Connections	
		Cool	Heat	Liquid	Gas
304237	MS11DI07HRDN1Q	2	2.3	1/4"	3/8"
1602409	MS11DI09HRDN1Q	2.6	2.9	1/4"	3/8"
304239	MS11DI12HRDN1Q	3.5	3.8	1/4"	3/8"
304240	MS11DI18HRDN1Q	5	5.3	1/4"	1/2"
1602410	MMSO24	7	7.3	3/8"	5/8"

Mini 4 Way Cassette

Cat. No.	Model No.	Capacity: kW		Connections	
		Cool	Heat	Liquid	Gas
304242	MCA2I07HRDN1	2	2.6	1/4"	3/8"
304243	MCA2I09HRDN1	2.6	3.2	1/4"	3/8"
304244	MCA2I12HRDN1	3.5	3.8	1/4"	3/8"
304245	MCA2I18HRDN1	5.2	6	1/4"	1/2"

Ducted Unit

Cat. No.	Model No.	Capacity: kW		Connections	
		Cool	Heat	Liquid	Gas
1602411	MTBI07HWDN1Q	2	2.4	1/4"	3/8"
1602412	MTBI09HWDN1Q	2.6	3.2	1/4"	3/8"
1602413	MTBI12HWDN1Q	3.5	3.8	1/4"	3/8"
1602414	MTBI18HWDN1Q	5.2	5.8	1/4"	1/2"

Floor Console

Cat. No.	Model No.	Capacity: kW		Connections	
		Cool	Heat	Liquid	Gas
1602415	MFF18HRDN1	5.2	5.8	1/4"	1/2"

Ducted Systems

- Single Phase
- Wired Control



Cat. No.	Model No.	Capacity: kW		Connections	
		Cool	Heat	Liquid	Gas
1602390	MHG24HWFN1Q	7.35	8.5	3/8"	5/8"
1602391	MHG36HWFN1Q	10.4	11.2	3/8"	5/8"
1602392	MHG48HWFN1Q	13.5	16	3/8"	3/4"
1602393	MHG60HWFN1Q	16.8	17.7	3/8"	3/4"

Cassette Systems

- Single Phase
- Wired Control

Cat. No.	Model No.	Capacity: kW		Connections	
		Cool	Heat	Liquid	Gas
1602394	MCD24HRFN1Q	7.1	7.6	3/8"	5/8"
1602395	MCD42HRFN1Q	11	13	3/8"	3/4"
1602396	MCD46HRFN1Q	12.8	14	3/8"	3/4"



Air Conditioners

Teco

Room Air Conditioners

Features

- R410A Refrigerant
- Reverse Cycle
- Remote Control Included

Cat. No.	Model No.	Capacity: kW		Dimensions: mm		
		Cool	Heat	Height	Width	Depth
1602361	TWW22HFB	2.2	1.9	375	560	668
1602362	TWW27HFB	2.7	2.4			
1602363	TWW40HFB	4.0	3.6	430	660	705
1602364	TWW53HFB	5.3	5.0			
1602365	TWW60HFB	6.0	5.6			

Universal Air Conditioner Remote Control

An economical answer to lost or damaged air conditioner remote controls, the universal remote controls will work with thousands of different models of air conditioning units. They are simply programmed by using the codes on the back of the remote.

The Ultra Plus 2124 is designed for commercial operations within the resort/motel industry. It features a narrow temperature range of 21 to 24 degrees with a two hour timer.



Features

- Digital read out
- Adjustable fan control
- Swing and directional control
- Mode control

Cat. No.	Part No.	Description
1606353	A/C Ultra Plus	Universal A/C Remote Control
1602359	ESR	Energy Saving Remote Control



Air Conditioners

Temperzone

Air Cooled Split Ducted Units

All these Temperzone units use R410A refrigerant.

Features

- Galvanised Sheet Steel Construction
- EpoxyCoated Coils
- EC Supply Air Fan Motor/s ISDL 66 - 116, ISD 87 - 324
- Optional Baked Polyester Powdercoat finish to ISD 87 - 950
- Reliable Operation up to 52°C Ambient
- Baked Polyester Powdercoat finish to Outdoor unit - Color options available
- Closed Cell foam with Foil Faced Insulation
- Variable Speed HP control
- Closed Cell foam with Foil Faced Insulation
- MEPS Compliant

Low Profile Split Ducted - Horizontal Only



Cat. No.	Model No.	Nominal Capacity/ Capacity Range: kW		Nominal Airflow l/sec	Pipe Sizes Ømm		Electrical Supply	Compressor	No. of Circuits
		Cooling	Heating		Liquid	Suction			
	ISDL / OSA 66	6.7	6.2	370	Ø9.5	Ø16	1 Phase	non digital scroll	1
	ISDL / OSA 87	8.5	7.8	480				DiGital	
	ISDL / OSA 116	11.2 / 4.5 - 11.2	11.1 / 4.4 - 11.1	630			1 or 3 Phase	non digital scroll	

Split Ducted - Inverter



Cat. No.	Model No.	Nominal Capacity/ Capacity Range: kW		Nominal Airflow l/ sec	Pipe Sizes Ømm		Electrical Supply	Compressor	No. of Circuits
		Cooling	Heating		Liquid	Suction			
2750187	ISD184KYXOSA184RKTFH	17.9 / 3.7 - 23.1	18.7 / 3.7 - 22.5	980	Ø9.5	Ø19	3 Phase	Inverter	1
2750190	ISD224KYXOSA224RKTFH	20.6 / 7.9 - 26.5	23.0 / 8.0 - 27.6	1190	Ø13	Ø22			
2750192	ISD294KYXOSA294RKTFV	27.1 / 5.6 - 33.5	27.5 / 5.5 - 33.0	1570		Ø28			
	ISD324KYXOSA324RKTFV	34.0 / 6.8 - 40.8	32.2 / 6.4 - 38.6	1725					



Air Conditioners

Temperzone

Split Ducted - DiGital & Non Digital



Cat. No.	Model No.	Nominal Capacity/ Capacity Range: kW		Nominal Airflow l/sec	Pipe Sizes Ømm		Electrical Supply	Compressor	No. of Circuits
		Cooling	Heating		Liquid	Suction			
	ISD87KYXOSA87RKTDH	8.5	7.8	480	Ø9.5	Ø16	1 Phase	non digital scroll	1
	ISD116KYX/OA116RKSGH	11.4 / 4.6 - 11.4	10.8 / 4.3 - 10.8	630			1 Phase	DiGital	
	ISD116KYX/OA116RKTGH						3 Phase		
2750184	ISD141KYXOSA141RKSGH	13.7 / 5.5 - 13.7	12.6 / 5.1 - 12.6	830			1 Phase		
2750185	ISD141KYXOSA141RKTGH								
2750186	ISD164KYXOSA164RKTGH	16.4 / 6.4 - 16.4	15.0 / 6.0 - 15.0	910					
2750188	ISD194KYXOSA194RKTGH	19.2 / 7.5 - 19.2	16.8 / 6.7 - 16.8	1065	Ø13	Ø19	3 Phase	DiGital	
2750189	ISD224KYXOSA224RKTGH	22.4 / 8.8 - 22.4	21.6 / 8.6 - 21.6	1190		Ø22			
2750191	ISD294KYXOSA294RKTGV	28.4 / 11.5 - 28.4	28.2 / 11.3 - 28.2	1570		Ø28			
	ISD324KYXOSA324RKTGV	32.3 / 12.9 - 32.3	30.3 / 12.1 - 30.3	1725					
160822	ISD380KBVOSA380RKTBV	37.6	38.8	2100	Ø22	non digital scroll			2
160838	ISD380KBOSA380RKTBGV					DiGital Stage 1			
160823	ISD465TBHOSA465RKTBV	44.6	44.0	2550		Ø28*		non digital scroll	
160825	ISD570KBHOSA570RKTBV	56.1	55.9	3100					
160827	ISD570BHPOSA570RKTBV								
160829	ISD670BHPOSA670RKTBV	65.9	62.8	3600					
160832	ISD670KBHOSA670RKTBV								
160833	ISD840BHOSA840RKTBV	84.7	79.8	4500	Ø35				
160835	ISD950KBHOSA950RKTBV	94.9	90.1	5000					

*ISD570 and 670 can use 35mm suction lines

Split Ducted - DiGital & Non Digital Vertical Supply Air Configuration



Cat. No.	Model No.	Nominal Capacity/Capacity Range: kW		Nominal Airflow l/sec	Pipe Sizes Ømm		Compressor
		Cooling	Heating		Liquid	Suction	
160824	ISD465TBVOSA465RKTBV	44.6	44.0	2550	Ø13	Ø22	non digital scroll
160826	ISD570KBVOSA570RKTBV	56.1	55.9	3100		Ø28	
160828	ISD570BVPOSA570RKTBV						
160830	ISD670BVPOSA670RKTBV	65.9	62.8	3600			
160831	ISD670KBVOSA670RKTBV						
160834	ISD840BVOSA840RKTBV	84.7	79.8	4500		Ø35	
160836	ISD950KBVOSA950RKTBV	94.9	90.1	5000			

*ISD570 and 670 can use 35mm suction lines



Air Conditioners

Temperzone

Air Cooled Rooftop Packaged

All these Temperzone units use R410A refrigerant and are 3 phase.

Features

- Galvanised Steel Construction
- EC Fan Motor OPA 116 - 201
- Baked Polyester Powdercoat finish - Optional colors available
- Closed Cell foam with Foil Faced Insulation
- Optional 50mm Panel Filters Available - OPA 242 - 2000
- Optional 100mm Panel filters available - OPA 465 - 2000
- Epoxy Coated Evap & Cond Coils
- Variable Speed HP Control
- MEPS Compliant
- Reliable Operation up to 52°C Ambient
- 32 Handling Options Available OPA 242 - 2000

Package Units - Over/Under Configuration



Cat. No.	Model No.	Nominal Capacity: kW		Nominal Airflow l/ sec	Compressor	No. of Circuits
		Cooling	Heating			
2705492	OPA 116	11.6	10.8	650		1
2705495	OPA 161	16.1	14.4	815		
	OPA 186	18.6	16.2	1000	DiGital	
2705494			16.7			
	OPA 201	20.0	18.1	1100	DiGital	
2705581			19.0			

Package Units - Side/Side Configuration



Cat. No.	Model No.	Nominal Capacity: kW		Nominal Airflow l/ sec	Compressor	No. of Circuits
		Cooling	Heating			
2705506	OPA 242	23.5	22.2	1400	DiGital Option	2
2750241	OPA 294	29.5	27.2	1600		
160839	OPA 296	29.7 / 13 - 32	28.1 / 12 - 32	1700	Inverter	
2750242	OPA 340	34.0	30.1	1800	DiGital Option	
2750243	OPA 370	39.1	35.6	2100		
2750244	OPA 465	46.7	43.5	2500		
2750245	OPA 550	56.1	49.5	2800		
2750246	OPA 705	71.6	69.4	3700		
2750248	OPA 855	85.1	83.5	4200		
2750249	OPA 960	96.0	90.0	5200		
	OPA 1370	137.0	135.0	7500		4
	OPA 2000	193.0	213.0	9500		

Package Units - Side/Side Configuration - ECO Series



Cat. No.	Model No.	Nominal Capacity: kW		Nominal Airflow l/ sec	Compressor	No. of Circuits
		Cooling	Heating			
	OPA 465	46.7	43.5	2500	1 DiGital / 1 Fixed	2
	OPA 550	56.1	49.5	2800		
	OPA 705	71.6	69.4	3700		
	OPA 855	85.1	83.5	4200		
	OPA 960	96.0	90.0	5200		



Air Conditioners

Temperzone

Water Cooled Packaged Units

All these Temperzone units use R410A refrigerant.

Horizontal Water Cooled Packaged Units

Features

- Flexible hoses included in models HWP 36 - HWP 192
- ThermoShell® heat exchanger in models HWP 36 - HWP 192
- HWP 79 - HWP 445 draw thru configuration
- Epoxy coated Evap coil for increased corrosion resistance
- Spring kit included
- HWP 36 - HWP 59 blow thru configuration
- 12mm R/A Filter Inc with HWP 36 - HWP 192
- Closed cell foam with foil faced insulation



Cat. No.	Model No.	Nominal Capacity Heat Pump: kW		Nominal Capacity Cool Electric Heat: kW		Nominal Airflow l/sec	Electric Supply	Compressor
		Cooling	Heating	Cooling	Heating			
	HWP 36	3.5	3.7	3.5	2.0	190	1 Phase	
	HWP 48	4.4	4.6	4.4		230		
	HWP 59	5.9	5.4	5.9		320		
	HWP 79	8.1	8.9	8.1	4.0	500		
	HWP 96	9.9	11.1	9.9		560		
	HWP 118	12.2	11.9	12.2	6.0	620	3 Phase	
	HWP 142	14.7	14.1	14.7		775		
	HWP 172	18.5	17.4	18.5		1015		
	HWP 192	21.2	19.9	21.2	9.0	1160		
	HWP 225	23.1	22.3	23.1		1180		
	HWP 290	28.7	28.6	28.7	18.0	1500		
	HWP 291	27.7 / 19 - 31		28.5	Not Available		1400	Inverter
	HWP 370	36.6	34.9	36.6	18.0	1900		
	HWP 445	44.5	42.2	44.5	24.0	2300		

Vertical Water Cooled Packaged Units

Features

- Flexible Hoses available as an option
- Baked polyester powdercoat cabinet finish - Optional colours available
- Epoxy coated Evap coil for increased corrosion resistance
- 12mm R/A panel filter included in models CWP 0063 - CWP 0178
- 50mm panel filter Optional on models CWP 0217 - CWP 1030
- Galvanised steel construction
- Closed cell foam with foil faced insulation



Cat. No.	Model No.	Nominal Capacity Heat Pump: kW		Nominal Capacity Cool Electric Heat: kW		Nominal Airflow l/sec	Electric Supply	Flex Hose Diameter mm	Flex Hose Length mm
		Cooling	Heating	Cooling	Heating				
	CWP 0063	6.3	6.6	6.3	2.5	380	1 Phase	2 x 20	600
	CWP 0083	8.3	8.3	8.3	3.0	490		2 x 25	800
	CWP 0096	9.6	9.6	9.6	4.0	570		2 x 25	800
	CWP 0109	10.9	10.3	10.9	4.5	600	1 Phase / 3 Phase	2 x 25	800
	CWP 0132	13.1	11.9	13.1		770		2 x 32	1300
	CWP 0178	17.8	16.4	17.8	6.5	920	3 Phase	2 x 32	1300
	CWP 0217	21.7	20.5	21.7	8.0	1210			
	CWP 0266	26.3	23.8	26.3	10.0	1535			
	CWP 0374	37.4	35.5	37.4	15.0	1940			
	CWP 0447	44.7	46.6	44.7	21.0	2315			
	CWP 0568	57.5	54.9	57.5	22.5	2935			
	CWP 0890	89.0	84.4	89	34.5	4800			
	CWP 1030	101.6	98.6	101.6	39.0	4960			

Air Conditioners

Temperzone

Chilled Water

Low Profile Chilled Water Fan Coil Units

Features

- Blow through configuration
- Optional supply air spigot with flexible duct spigots fitted
- Closed cell foam with foil faced insulation
- Optional EC motor version available
- Epoxy coated coil



Cat. No.	Model No.	Nominal Air Flow l/sec	Configurations		Spigot Diameter mm
	IMDL 40	205	3 Row Cool / 1 Row Heat	4 Row Cool / Electric Heat	2 x Ø200
	IMDL 60	335			2 x Ø250
	IMDL 90	480			3 x Ø250
	IMDL 130	650			4 x Ø250

Chilled Water Fan Coil Units

Features

- Draw through configuration
- Optional spring hanging kit
- Optional baked polyester powdercoat cabinet finish
- Closed cell foam with foil faced insulation
- Optional EC motor version available
- Galvanised steel construction
- Epoxy coated coil



Cat. No.	Model No.	Nominal Air Flow l/sec	Configurations		Spring Kit
	IMD 95	450	4Row Cool / 1 Row Heat	4 Row Cool / Electric Heat	Spring Kit #2
	IMD 135	600			
	IMD 170	750			
	IMD 210	900			
	IMD 280	1250			
	IMD 420	1800			
	IMD 550	2340			Spring Kit #3

Chilled Water Air Handling Units

Features

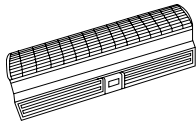
- Draw through configuration
- Optional baked polyester powdercoat cabinet finish
- Epoxy coated coil
- Galvanised steel construction
- Vertical discharge available
- Closed cell foam with foil faced insulation



Cat. No.	Model No.	Nominal Air Flow l/sec	Configurations	
	IJD 370	1500	4 Row Cool / 1 Row Heat or 6 Row cool / 1 row heat	4 Row Cool / Electric Heat or 6 Row Cool / Electric heat
	IJD 450	1800		
	IJD 620	2400		
	IJD 950	3600		
	IJD 1400	5500		
	IJD 2000	7200		
	IJD 2400	8600		

Air Curtains

Agree



Cat. No.	Model No.	Span: mm	Voltage: V	Frequency: Hz	Power: W	Weight: kg	Dimensions: mm W x D x H	Air Flow: m3/h	Air Speed: m/min	Fan dia: mm	Sound Level
1602397	FM125-09	900	240	50	95	17	900 x 215 x 193	1150	>480	125	<60
1602398	FM125-12	1200	240	50	135	21	1200 x 215 x 193	1640	>480	125	<60

Humidification



Carel

HumiDisk Adiabatic Humidifier



Cat. No.	Part No.	Humidification Ltr/hr	Supply Voltage	Rated Current
1602441	UC065D1000	1.1 to 6.5	230V	2A

Unit Guards



Protect

Condenser Guard

Protect guards are designed to be quick and easy to install to provide maximum strength and maximum security to air conditioning units. They have been manufactured in accordance with South Australian Government requirements which require they are made of 40mm angle iron and 25mm mesh which has been hot dipped galvanised.

Features

- Maximum Strength
 - Heavy duty angle iron and 25mm steel mesh
 - Hot dipped galvanised
- Maximum Security
 - Can be bolted to a wall or fastened to a concrete pad
 - Padlock the front access panel for added security
- Easy and quick to install
- Easy to handle and store



25mm Mesh

Cat. No.	Model No.	Description	Dimensions: mm		
			Width	Height	Depth
1602060	ACG9	25mm Mesh Condenser Guard	1000	900	600
1602061	ACG10	25mm Mesh Condenser Guard	1200	1000	600
1602062	ACG12	25mm Mesh Condenser Guard	1200	1200	600
1602063	ACG14	25mm Mesh Condenser Guard	1200	1400	600
1602064	ACG16	25mm Mesh Condenser Guard	1200	1600	600

