

COMPRESSOR PARTS SHAFT SEALS

MAKE DESCRIPTION MODEL	SHAFT SIZE	CAT. NO.	MANUF. P/N	ALTERNATIVE REPLACEMENT GUIDE							
				BELLOWS TYPE			MECHANICAL TYPE				
				DANFOSS	FRIGIDAIRE	KELV	FLEXIBOX	ROTARY			
BARBERIE											
All Models	5/8	26718		39-001	SA50135	22415	1588-42R	1115*			
BRUNNER											
S140, R330	11/16	2671	S140-159				1746-10R	3373			
R500	7/8	2672	R500-159					4369			
R650	1 1/8	2673	R650-159					9376			
R2002	1 1/4	2674	R2002-159				3176-40R	9377			
COLDSTREAM											
CH, KB	1/2	2675	151A5				R1270-4R	2292			
P, Q, M, T, J, JB	7/8	2676	151A3								
R.O. Prior to 1949	15/16	2677	151A4								
R.O. After 1949	1 1/8	2678	151A8								
RO, OB, RY	1 1/8	2679	151A12								
EMMCO ELECTRIC											
4B. Hole/Diaphragm Type	1/2						1270-4R	2292			
A,B,C,CD,D,DE,E,ED,SC etc. early models	5/8	26718		39-001	SA50135	22415	1588-42R	1115*			
AS,CS,GH,K,L,M,R,S etc. late models	5/8	26718		39-001	SA50135	22415	1588-42R	1115*			
N, P, ES	7/8	26719				49838	2223-6R	4120*			
T, U	1 3/16	26720				49839	3016-17R	14117*			
Q	1 3/8	26721				49840	3493-10R	14119*			
ELLIS & JUDGES											
A, AA	5/8	26711	BM90				1588-42R	1115*			
B, C, D, CC, DD, EE	3/4	26712	BM169								
T, V, TP, VP		26713	BMN63								
FRIGIDAIRE											
All models with 5/8 shaft	5/8	26715	SA50135	39-001	SA50135	22415	1588-42R	1115*			
All models with 15/16 shaft	15/16	26716	2854178	39-002	2854178	--	2381-18R	5110			
HALLMARK											
1AH, 2B series	13/16						2064-5R	4196			
2AH, 2C, 3C series	15/16						2381-8R				
2½ x 2½ - 2, 3, 4 Cylinder	1 15/16						3334-3R				
KELVINATOR (LEONARD)											
BELLOWS TYPE											
MODEL	SHAFT SIZE	REPLAC. SEAL		COVER GASKET		SEAT		SEAT GASKET		COVER	
		CAT. NO.	P/N	CAT. NO.	P/N	CAT. NO.	P/N	CAT. NO.	P/N	CAT. NO.	P/N
H	5/8	26718	22415		49507	26766	122510	26762	22418		22420
K	7/8	26719	49838		49515	26765	49832	26761	49833		49788
Y	1 3/16	26720	49839		49601	26767	49834	26763	49835		49600
T	1 3/8	26721	49840		49652	26768	49836	26764	49837		49813
ROTARY TYPE											
H42	5/8	26732	FA116		49507					26744	KA37495
K62	7/8	26733	FA117		49515					26745	KA37497
Y72	1 3/16	26734	FA118		49601					26746	KA37499
T82	1 3/8	26735	FA119		49652					26747	KA37501
42	3/4	26736	FA130		49507						KA40864
72	1 1/4	26737	FA131		49601						KA40874
83	30mm	26730	GA48		GA20						GA18
84*	30mm	26730	GA48		GA20						GA18
84**	35mm	26731	GA49		GA20						GA19
86	35mm	26731	GA49		GA20						GA19

* Before serial No. 22903

** After serial No. 22903

GET THE RIGHT PRODUCT

NO SENSE ACCEPTING A SUBSTITUTE PART INSTEAD OF ONE THAT YOU WANT TO BUY BUT WHICH IS NOT CARRIED IN STOCK BY MOST SUPPLY HOUSES. THE PART THAT YOU THINK "WILL DO" MAY ULTIMATELY COST YOU YOUR PROFIT ON THE JOB AS WELL AS A LOST CUSTOMER. PICK OUT THE RIGHT PART YOU WANT FROM THIS CATALOGUE AND CHANCES ARE GOOD THAT WE'LL HAVE IT. IF NOT, WE WILL GET IT FOR YOU AS QUICKLY AS POSSIBLE.

COMPRESSOR PARTS SHAFT SEALS

MAKE DESCRIPTION MODEL	SHAFT SIZE	CAT. NO.	MANUF. P/N	ALTERNATIVE REPLACEMENT GUIDE				
				BELLOWS TYPE			MECHANICAL TYPE	
				DANFOSS	FRIGIDAIRE	KELV	FLEXIBOX	ROTARY
KIRBY-TECUMSEH (STERNE)								
HG, CG	7/8	2684	K665-8					
VFT, VFTL, CJ, CH	1	2683	K612-8					
RA, P, CK	1 1/4	2681	K509-5					
SA, CM	2 1/4	2682	K509-9					
VELOC-BITZER								
COMP. NO. 2, 3		26830	2045					
" " 4		26831	4045					
" " 5		26832	5045					
" " 6		26833	6045					
" " 7		26834	7045					
UNIVERSAL COOLER								
Compressors with threaded cap (Not an outside seal)	5/8							4282
B, C, D, E, F, All compressors with threaded cap	11/16						1746-4R	3280
WERNER								
Early Model B	5/8		M27-2					
Early Model G, M, N	11/16		M41-2					
J, L, JB, JJ, L	11/16		M40-2				1746-10R	3373
Early Model C	7/8		C40-2					
L, P, W, Y, Z, RP, RW, RY, PP, WW, YY, SS	1		L40-2					
TT, UU	1 3/16					49839		14117
QQ	1 3/8					49840		14119
TERRY								
MAKE DESCRIPTION MODEL	SHAFT SIZE	SEAL KIT		SEAL PLATE		Alternative Replacement Guide		
		CAT. NO.	P/N	CAT. NO.	P/N	BELLOWS TYPE		MECHANICAL TYPE
						KELV	FLEXIBOX	ROTARY
E, B, BR, C	1/2	—	NA	—	—		1270-4R	2292
V, VL, Y, YL	5/8	—	NA	—	—		1588-42R	1115
D series	5/8	26815	171-26'	—	NA		1588-42R	1115
K, KF	3/4	26812	170-79		160-12			
U Early 3-3/8 OD Plate	15/16	2688	170-78	26858	160-17		2381-18R	(RH)
U Late, R	15/16	2688	170-78	26857	160-13		2381-18R	(RH)
RHFL, RPFL, GHFL	1 3/16	2687	170-77	26856	160-11			
KU	15/16	26818	170-91	—	—			
RA	1 1/4	26819	170-81	—	—			
A, AF, J, JF, F, FF, P, PF, PH, PHWA	1 3/16	2686	170-76	26856	160-11			
V4, V4F, V4H, V4HF, V4W, V4WF	1 3/8	2685	170-94		160-10			
V4S, V4P, VS	1 3/8	2685	170-94	—	—			
V4PWA	1 3/8	26825	170-101	—	—			
PJ, PY, JY, PYWA, PJS	1 1/4	26820	170-95	—	—			
V4PWA, V4HWA (NH ₃ only)	1 3/8	26825	170-101					
TERRY — COMEF								
CB65	16mm	26821	170-96					
CB125	20mm	26822	170-97					
CB200	20mm	26823	170-98					
CB355	25mm	26824	170-99					

NOTE : FIRST 3 NUMERALS OF CAT. No. INDICATES PAGE No.

WE HAVE LARGE STOCK HOLDINGS OF PARTS FOR YOUR SUPERCEDED EQUIPMENT

COMPRESSOR PARTS

VALVE PLATE ASSEMBLIES AND GASKETS

MAKE AND MODEL	VALVE PLATE ASSEMBLY	GASKET TOP PLATE	GASKET CYL. HD.	GASKET VALVE PLATE	COMPLETE GASKET SET
	CAT. NO.	CAT. NO.	CAT. NO.	CAT. NO.	CAT. NO.
BARBERIE					
SINGLE CYLINDER	2691		26971	269111	—
TWIN CYLINDER	2692		26972	269112	—
BITZER					
NO. 2 COMPRESSOR	27121		27145	27165	271121
NO. 3 COMPRESSOR	27122		27146	27166	271122
NO. 4 COMPRESSOR	27123		27146	27167	271123
NO. 5 COMPRESSOR	27124		27147	27168	271124
NO. 6 COMPRESSOR	27125		27148	27169	271125
NO. 7 COMPRESSOR	27126		27149	27170	271126
BRUNNER — GORDON					
S140 R330	26923		26985	269137	269187
R500	26924		26986	269138	269188
R650	26925		26987	269139	269189
R2002, R5002	26926		26988	269140	269190
COLDSTREAM — BELT DRIVEN					
CH	2693		26973	269113	269161
KB	2693		26973	269114	269162
P	2694		26974	269115	269163
Q	2694		26974	269116	269164
M	2694		26974	269117	269165
T	2694		26974	269117	269166
J	2695	26951	26975	269118	269167
R	2696	26952	26976	269119	269168
O	2697	26953	26976	269120	269169
RY	2698		26976	269121	269170
OB	2697		26976	269120	269171
JB	2699		26977	269122	269172
RO	2697		26976	269120	269173
COLDSTREAM — ROTO SEALED					
CY, KY	26912		26973	269127	269177
HY	26913		26973	269128	269178
BY,FY,NY (CAST-IN SERVICE VALVES)	26914		26973	269128	269178
BY,FY,NY (DETACHABLE)	26915		26981	269129	269179
NX, BX, FX	26916		26981	269130	269180
NZ	26917		26981	269131	269181
NL	26918		26982	269132	269182
NU	26919		26982	269133	269183
BU	26920		26982	269133	269183
ELLIS & JUDGES					
A, AA	26929		26991	269143	269193
B	26930		26992	269144	269194
C, D, E	26931		26993	269145	269195
CC, DD, EE	26931		26994	269145	269196
T,V,TP,VP=(KIRBY-TEC. VFT,VFTL)	26932		26995	269146	269197
EMMCO/ELECTRICE — BELT DRIVEN					
R, L (KELVINATOR SA)	26935		26998		269200
RS, AS	26936		26999		269201
CS	26937		269100		269202
ES	26938		269101		269203
S, G, K (KELVINATOR SB)	26939	26955	269102		269204
J, M (KELVINATOR SG)	26937	26956	269100		269205
N, P (KELVINATOR FB)	26938	26957	269101		269206
T (KELVINATOR K)	26940	26958	269103		269207
U (KELVINATOR Y)	26941	26959	269104		269208
Q (KELVINATOR T)	26942	26960	269105		269209

OUR COMPLETE INVENTORY ASSURES PROMPT SERVICE

COMPRESSOR PARTS

VALVE PLATE ASSEMBLIES AND GASKETS

MAKE AND MODEL	VALVE PLATE ASSY.	GASKET TOP PLATE	GASKET CYL. HD.	GASKET VALVE PLATE	COMPLETE GASKET SET
	CAT. NO.	CAT. NO.	CAT. NO.	CAT. NO.	CAT. NO.
FRIGIDAIRE					
K, L, N, O, P, R	2701		27045	27J75	—
AF133, AD133, ADO 25	2702		27046	27076	—
AF250, AH250, AF375, AD2, AD3	2703		27047	27077	—
AD4	2704		27048	27078	—
AH4, AH6 (ENGLISH COMP.)	2704		27049	27079	—
5, 6, 5G, 6H, AD6	2704		27048	27080	—
KELVINATOR					
SA (EMMCO R, L)	26935		26998	—	269200
SB, SSB (EMMCO S, G, K)	26939	26955	269102	—	269204
SG, SSG (EMMCO J, M)	26937	26956	269100	—	269205
H, GH	26943	26956	269100	27085	270115
PFBA — FB	26938	26957	269101	—	270116
K (EMMCO T)	26940	26958	269103	—	270117
Y (EMMCO U)	26941	26959	269104	—	269208
T (EMMCO Q)	26942	26960	269105	—	269207
83	NOT USED	—	—	—	270118
84	" "	—	—	—	270119
86	" "	—	—	—	270120
KIRBY TECUMSEH — BELT DRIVEN					
HA	27015	—	—	—	270122
HAC	27016	—	—	—	270123
HG	27017	—	27055	27091	270124
HGC & CG	27018	—	27055	27091	270124
VFT = (E & J)T,V.) & CH	27019	—	26995	269146	270125
VFTL = (E & J)TP, VP) & CJ	27019	—	26995	269146	270126
P	27020	—	27057	27092	270127
RA & CK	27021	—	27058	27093	270128
SA & CM	27022	—	27059	27094	270129
SUMMIT					
ALL "AS" SERIES COMPRESSORS	27025		27061	27096	270131
TERRY — BELT DRIVEN					
KU	27040		27071	270110	—
RA	27039		27064	270111	270207
PJ, PJS	27035		27065	270112	270208
JY	27035		27065	270112	270210
PY, PYWA	27037		27069	270107	270209
V4S, VS	27035		27065	270112	270205
V4P, V4PWA	27037		27069	270107	270211
V4, V4H, V4F, V4HF	27037		27069	270107	271118
V4HF, V4H 25% and 50% Unloaded					270202
V4HF, V4H 75% Unloaded					270203
V4WF, V4W	27037		27069	270107	271119
V4HWA	27037		27069	270107	270204
P, PF, PH, PHF, PHWA	27037		27069	270107	270197
P Series 50% Unloaded					270200
PW, PWF	27037		27069	270107	270199
A, AF, J, JF, F, FF, AW, AWF, JW	27035		27065	270112	27098
JWF, FW, FWF, JT, JFT					
R, RR, RF, RRF	27038		27070	270108	271112
U, UF, URF, UFL, UR	27032		27086	270103	270142
UH, UHR, UHF	27115		27087	27161	270143
UHRF	27115				270143
K, KF	27026		27068	270106	27097
TERRY — COMEF					
CB65	270171	—	—	—	270214
CB125	270172	—	—	—	270215
CB200	270173	—	—	—	270216
CB355	270174	—	—	—	270217

OUR BIG SELECTION ANSWERS YOUR EVERY NEED AND PRICED RIGHT TOO

COMPRESSOR PARTS

VALVE PLATE ASSEMBLIES AND GASKETS

MAKE AND MODEL	Valve Plate Assy.	Gasket — Top Plate	Gasket Cyl. Hd	Gasket — Valve Plate	Complete Gasket Set
	CAT. NO.	CAT. NO.	CAT. NO.	CAT. NO.	CAT. NO.
TERRY/WERNER EMMCO — SEMI-SEALED					
SD	2717		27176	27159	27187
TM	27118		27177	270102	27192
TL, TL1F, TL3, TL3F	27032		27178	270103	27193
TG1, TG3, TG1FL, TG3FL	27032		27179	270103	27197
QG3L, QG3FL	27032		27180	270103	271102
TG3FT, TG3F, TG3H, TG3FM, GF4Y	27115		27066	270104	271100
TY, TR, TYF, TRF	27026				
TR3F					27192
QH3, QG3H, QG3F	27115		27066	270104	271106
LF4AA	27027		—	—	27181
R2L, R2FL, R2FLT, R2FY	27038		27070	270108	271105
R4P, R4FP, R4FOA, R4ROA2	27038		27070	270108	271109
Note: VALVE PLATE ASSY. comprises — Valve Plate Assembly, Suction Valves, Pins, Valve Plate and Cylinder Head Gaskets, Bolt Sealing Washers					
VELOC — SEE BITZER					
WERNER — OPEN TYPE					
PP	—		27151	27172	—
WW, YY	—		27152	27173	—
JJ, JB	—		27153	27174	—
TT	26940	26958	269103	269154	—
UU	26941	26959	269104	269155	—
QQ	26942	26960	269105	269156	—
WESTINGHOUSE — AUSTRALISE					
2S, 2M, 10S, 10M	27129		27154	27175	—
3S, 3M, 4S, 4M	27130		27155	27176	—

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SERVICE VALVE GASKETS

CAT. NO.	BOLT HOLE CENTRES	CENTRE HOLE DIAMETER
271141	1.1/2"	1/2"
271142	1.5/8"	9/16" (Sult Beer Coolers)
271143	1.5/8"	3/4"
271144	1.3/4"	5/8"
271145	2"	5/8"
271146	2.3/4"	1.3/8"
271148	1.5/8"	1" Terry 445-6
271149	2.3/4"	1.3/4" Terry 445-5
271150	1.5/8"	5/8" Terry 445-7



GASKET MATERIAL

HIGH QUALITY OIL RESISTANT GASKET MATERIAL

- AVAILABLE IN
- Rolls 3 ft. wide — Sold per pound weight
 - Cut in Square Foot pieces.

THICKNESS	PER POUND*	SQ. FT. PIECES
INS.	CAT. NO.	CAT. NO.
1/64"	271151	271155
1/32"	271152	271156
1/16"	271153	271157

*In Rolls, 3 ft. wide — Specify length required when ordering.

ACPAR PARTS — TO HELP YOU BUILD REFRIGERATION SYSTEM RELIABILITY

COMPRESSOR PARTS VALVES-SUCTION AND DISCHARGE

ACTUAL SIZE ILLUSTRATIONS ON FOLLOWING PAGES, 173 TO 177

MAKE AND MODEL	SUCTION	DISCH.	MAKE AND MODEL	SUCTION	DISCH.
	CAT. NO.	CAT. NO.		CAT. NO.	CAT. NO.
BARBERIE All Models	27229	2724	KIRBY — TECUMSEH, STERNE UNIVERSAL COOLER, HALLMARK HA, HAC HG HGC & CG VFT, VFTL & CH, CJ P RA & CK SA & CM	27274 27275 27276 27216 27277 27278 27285	27273 27273 27273 27282 27279 27284 27286
BITZER COMPRESSOR NO. 2, 3 COMPRESSOR NO. 4, 5 COMPRESSOR NO. 6, 7	27219 27217 27217	2721 2726 2727	SUMMIT — SEMI-SEALED AS100 AS150, 200, 300, 400, 500, 750	27223 27225	27281 27281
BRUNNER-GORDON S140, R330 R500, R650 R2002, R5002	27243 27220 27246	2728 2728 27270	TERRY — OPEN TYPE E, BR, C, V, VL, Y, YL, X — VALVE REED SETS* KU RA PJ, PJS, VS JY, V4S, A, J, F, AW, AWF, JW, JWF FW, FWF, JT, JFT PY, PYWA, V4P, V4PWA, V4, V4H, V4F V4HF, V4WF, V4W, V4HWA, P, PF, PH, PHF, PW, PWF, PHWA R, RR, RF, RRF U, UF UH, UHR, UHF K, KF	27215	27256 272117 272118 272119 272112 272115 272111 272107 272109 272105
COLDSTREAM-OPEN TYPE CH, KB P, T, Early Flapper Type P, Q, M, T, Later Bridge Type J JB R RY O OB	27215 27215 27215 27215 27226 27227 — — 27240 27240	27256 27253 2725 27258 — 27258 27258 27255	TERRY-COMEF CB65 CB125 CB200 CB355		272123 272124 272125 272126
COLDSTREAM-ROTOSEALED BY, NY, FY, HY, NT (Cast In Service Vlvs.) BY, NY, FY (Detachable Service Vlvs.) CY, KY FX BX, BU, NX, NU NZ NL	27215 27247 27224 — 27252 27226 27249	2725 27213 27254 27213 27213 27213 27213	TERRY — SEMI-SEALED SA TB, T2, TZ, TY, TR1, TR3 DCS, SS, SX G2FLA, H2FLA, G4FGA — VALVE REED SETS* SD TM TL, TL1F, TL3, TL3F, TG1, TG3, TG1FL, TG3FL, QG3L, QG3FL TG3FT, TG3F, TG3H, TG3FM, GF4Y, QH3, QG3H, QG3F LF4AA R2L, R2FL, R2FLT, R2FY, R4P R4FP, R4FOA, R4ROA2	27234 27234 — 27288	27256 2724 27256 27251 272103 272106 272107 272109 272110 272111
ELLIS AND JUDGES A, AA B, C, CC, D, DD, E, EE Early — C, CC, D, DD, E, EE Late T, V, TP, VP	27232 27262 27238 27244	2724 27253 27212 27282	VELOC — SEE BITZER		
EMMCO ELECTRIC — OPEN TYPE A, B, C, D, DE, E, E4, SC, SE, DX F, FW, SF R, S, G, K, AS, LA, RA, RS J, M, CS T (Same as Kelvinator K) U(" " " Y) Q(" " " T)	27271 27269 27229 27234 27238 27239 27241	27263 27266 — 27260 27212 27211 2729	WERNER — OPEN TYPE PP WW, YY JB, JJ TT (Same as Kelvinator K) UU(" " " Y) QQ(" " " T)	27230 27250 27237 27238 27239 27241	2723 2723 2723 27212 27211 2729
EMMCO — SEMI SEALED VLF, RLF, RFG, TY, TRI L3L, M3F, WG3L, WM3F L3F, L3G, G3F, WG3F, TL3, TM3 G3F, WG3F, TG3	27234 27235 27235	2724 27214 27212	WERNER — SEMI-SEALED SX SD TY, TR1, TR3 TL1, TM1, TM3, TL3, TL3F, TL3FL TG3FL, TG3, TG3FM TG3H, QG3L	— — 27234 27235 27235	27256 2724 2724 27214 27212
FRIGIDAIRE — VALVE IN PISTON G, SAE, SAU A, B, G, SAE, FICC, Etc. Late C, D, W5100, Etc. K, L, P, Y, Etc. — SOLID PISTON A4, 5, 547, 8, 748, AD016, 25 AD133, A125, 133, AF125, 133 AD WD2, AD WD3, A AF375 AD WD4, AD WD6, AF WF4100	27260 27265 — — 27231 27233 27245 27248	27221 27221 27258 27253 27221 27221 27257 27257			
GORDON (JACK FROST) ORTK RTK, RATK, OTK, R4TK O, OR, ORT, R, RT RA, RAT G	27272 27271 27266 27267 27234	27261 27263 27221 27221 —			
KELVINATOR SA, SB SG, SSG H FB, PFBA K Early	27228 27234 27234 27235 27238	2724 2724 27214 27214 27212			
KELVINATOR SUCTION VALVE AND GASKET SET K, K62 Y, Y72 T, T82		272135 272136 272137	<p style="text-align: center;">* TERRY VALVE REED REPLACEMENT SETS Each set consists of : Discharge and Suction Reeds, Reed Springs, Retaining pins, Teflon retaining washers if necessary. Cylinder Head and Valve Plate Gaskets for one Valve Plate refft.</p> <p style="text-align: center;">NOTE IF THE MODEL OF YOUR COMPRESSOR IS NOT LISTED ABOVE — TRY US ANYWAY OUR ORGANIZATION HAS STOCKS OF VALVES NOT POSSIBLE TO LIST HERE. CHECK WITH US — WE WILL TRY TO HELP YOU</p>		

VALVES

ILLUSTRATIONS ACTUAL SIZE - Ordering Catalogue No. Shown

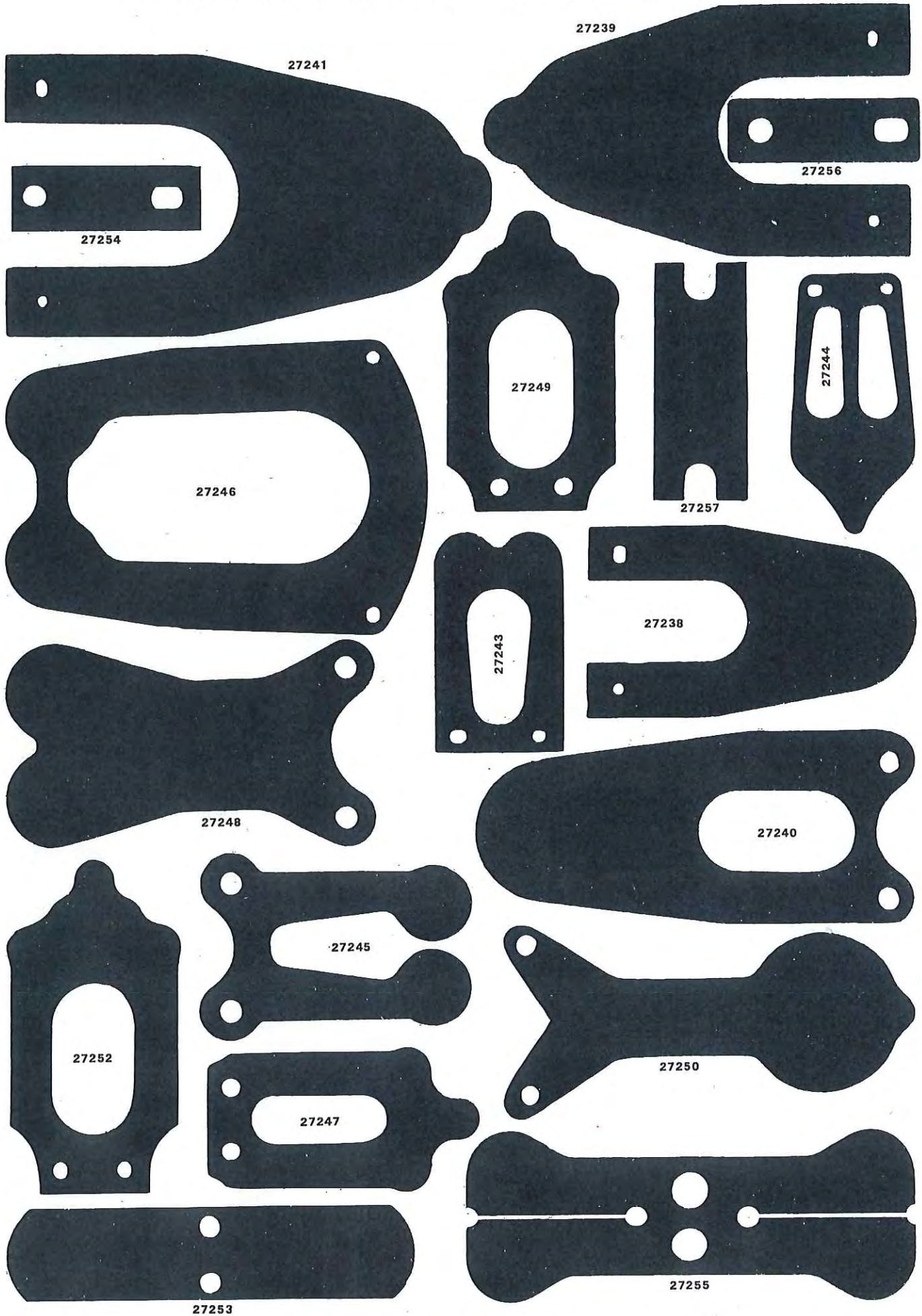


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272-b

VALVES

ILLUSTRATIONS ACTUAL SIZE - Ordering Catalogue No. Shown



VALVES

ILLUSTRATIONS ACTUAL SIZE - Ordering Catalogue No. Shown



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Copeland® COMPRESSOR SPARE PARTS

CAT. NO.	PART NO.	COMPRESSORS PART USED ON
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VALVE PLATE KITS

278101	998-0661-00	4RA(7½&10HP) 6RA(10&20HP)
278102	998-0661-06	EAB, EAC, EAV, EAL, ERA, ERC & ERF.
278103	998-0661-08	9RA, 9RC, 9RP, 9RS3(7½&10HP)
278104	998-0661-09	9RB, 9RJ (5&7½HP)
278105	998-0661-12	ALL "H" SERIES
278106	998-0661-14	EAA, EAD & EAJ
278107	998-0661-16	ALL "K" SERIES EXCEPT KAE
278108	998-0661-17	MRF (5HP), MRH (7½HP)
278109	998-0661-18	ERJ (2HP)
278110	998-0661-20	3R (3HP)
278111	998-0661-23	MRA (5HP)
278112	998-0661-28	83 OPEN COMP.
278113	998-0661-36	9TK (5HP)
278114	998-0661-37	ALL "L" & "NR"(3 to 5 HP)
278115	998-0661-41	9RS1 (7½ & 15 HP)
278116	998-0661-42	KAE (½ & ¾ HP)
278117	998-0661-45	9RT (15HP)
278118	998-0661-49	4RL (15HP), 6RL (25HP)
278119	998-0661-50	MRB (5HP)
278120	998-0661-51	4RH, 4RK, 6RH, 6RK & 6RP
278121	998-0661-52	4RA(20HP), 4RE(10 & 20HP) 6RA(30HP), 6RE, 6RB & 6RN
278122	998-0661-54	MRC (5HP)
278123	998-0661-56	4RJ, 4RR, 6RJ, 6RR & 6RS
278124	998-0661-57	6RT (30HP)

GASKET SETS

278136	998-0669-00	4RA, 4RE, 6RA, 6RB, 6RE & 6RN
278137	998-0669-06	HAK
278138	998-0669-07	HAK & HAT
278139	998-0669-12	KAE & KAH
278140	998-0669-13	KAJ
278141	998-0669-14	KAA & KAK
278142	998-0669-15	KAL & KAT
278143	998-0669-16	LAE & LAH
278144	998-0669-18	LAL (3HP)
278145	998-0669-23	ALL MR(5HP)
278146	998-0669-24	ALL 3A (2 & 3 HP)
278147	998-0669-25	ALL 3R (3HP)
278148	998-0669-27	ALL ERJ (2HP)
278149	998-0669-28	EAJ, EAL, EAV & ERF
278150	998-0669-31	EAA, EAC & ERA
278151	998-0669-33	LWH (3HP)
278152	998-0669-37	ALL 9R & 9T
278153	998-0669-44	83 OPEN COMP
278154	998-0669-49	ALL NR (3 to 5HP)
278155	998-0669-52	MRH (7½HP)
278156	998-0669-54	4RH, 4RK, 4RL, 6RH, 6RK, 6RL, 6RP & 6TM
278157	998-0669-55	4RJ, 4RR, 6RJ, 6RR, 6RS & 6RT

COOLING FAN KITS

278351	550-0210-00	4R (EXCEPT 4RL)
278352	550-0210-02	4RL
278353	550-0211-00	6R (EXCEPT 6RL & 6RT)
278354	550-0213-00	NR
278355	550-0214-00	MR
278356	550-0215-00	6RL & 6RT
278357	998-1307-00	9R

230 VOLT FAN MOTORS

278365	050-0167-00	ALL 4R,6R,9R,MR & NR
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FANS

278370	083-0077-00	ALL 4R,6R,9R,MR & NR
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CAT. NO.	PART NO.	COMPRESSORS PART USED ON
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VALVE PLATE GASKETS

278171	020-0097-00	HAK & HAT
278172	020-0103-00	MRA, MRF (5HP)
278173	020-0103-02	MRH (7½HP)
278174	020-0103-04	MRB & MRC (5HP)
278175	020-0113-00	3RK (3HP)
278176	020-0115-00	4RA, 4RE, 6RA, 6RB, 6RE & 6RN
278177	020-0123-00	EAL, EAV & ERF
278178	020-0123-03	EAA, EAC, ERA & ERC
278179	020-0123-04	ERJ
278180	020-0125-00	LAL (3HP)
278181	020-0125-02	NRM & NRN
278182	020-0125-04	NRL
278183	020-0125-05	NRB
278184	020-0128-00	9RB, 9RC, 9RP (5to10HP), 9TL (5&7½HP)
278185	020-0128-01	9RA, 9RJ (5&7½HP), 9TK (5HP)
278186	020-0128-04	9RS (7½ & 10HP)
278187	020-0132-00	KAJ
278188	020-0132-03	KAE & KAH
278189	020-0132-04	KAA & KAK
278190	020-0132-05	KAL & KAT
278191	020-0320-00	9RS & 9RT (15HP)
278192	020-0433-00	4RH, 4RK, 6RH, 6RK, 6RP & 6TM
278193	020-0487-00	4RL & 6RL
278194	020-0499-00	6RT
278195	020-0499-01	4RJ, 4RR, 6RJ, 6RR & 6RS

CYLINDER HEAD GASKETS

278201	020-0052-00	ALL 3A & 3R
278202	020-0071-00	ALL "H"
278203	020-0089-00	ALL L & NR
278205	020-0099-00	ALL K
278206	020-0114-00	ALL 4R & 6R
278207	020-0122-00	ALL EA & ER
278208	020-0127-00	9RA, 9RB, 9RC, 9RJ, 9RS(5to10HP)
278209	020-0134-00	ALL MR
278210	020-0270-00	9TK(5HP), 9TL(5&7½HP)
278211	020-0321-00	9RS (15HP)
278212	020-0404-00	9RP (7½&10HP)
278213	020-0408-00	9RT (15HP)

OIL PUMP KITS (Including gasket)

278221	998-0007-01	NR, MR, 9R
278222	998-0008-02	4R, 6R

230 VOLT CRANKCASE HEATERS

278326	018-0007-01	3A,3R,EA,ER,MR,NR & LA (CLAMP ON TYPE) 65 WATT
278327	018-0007-06	4R,6R & 9R (CLAMP ON TYPE) 65 WATT
278328	018-0007-11	4R,6R & 9R (CLAMP ON TYPE) 100 WATT
278329	018-0015-00	RR & SR 42 WATT
278330	018-0017-00	PRA 75 WATT
278331	018-0018-00	YR 100 WATT
278332	018-0021-01	4R & 6R (DEEP SUMP MODELS) 200 WATT
278333	018-0022-00	BR 60 WATT
278334	518-0001-02	9R (IMMERSION TYPE) 65 WATT
278335	518-0002-02	4R&6R " " 100 WATT
278336	998-0118-01	H&K(CLAMP ON TYPE) 50 WATT

HEATER CLIPS

278345	032-0091-00	LA,MR,NR,3A,4R,6R&9R 2 REQD.
278346	032-0091-01	EA,ER & 3R 2 REQD.
278347	074-0581-00	4R&6R (DEEP SUMP MODELS) 1 REQD.

COPELAND COMPRESSOR SPARE PARTS CONTINUED NEXT PAGE — OTHERS AVAILABLE ON APPLICATION

Copeland® COMPRESSOR SPARE PARTS

CAT. NO.	PART NO.	COMPRESSORS PARTS USED ON
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MOTOR PROTECTORS

278226	071-0086-09	9RJ-5HP TFC
278227	071-0086-14	NRL-5HP TFD
278228	071-0086-17	MRA & MRF-5HP TFD, 9RB, 9RJ & 9TK-5HP TFD
278229	071-0086-22	9RC-7½HP TFC
278230	071-0086-20	MRH-7½HP TFD/M/X, 9RA, 9RB, 9RP & 9RS-7½HP TFD
278231	071-0086-37	NRB & NRN-3HP TFD
278232	071-0086-29	9RJ-5HP TFE
278233	071-0086-35	MRB & MRC-5HP TFD
278234	071-0086-38	MRA-5HP TFC
278235	071-0090-03	3RK & LAL-3HP TAD
278236	071-0090-07	KAJ-1HP TAD
278237	071-0090-08	ERA, ERJ & EAL-2HP TAD
278238	071-0090-10	ERF-3HP TAD
278239	071-0090-27	KAT-1½HP TAD
278240	071-0092-16	KAT-1½HP CAS
278241	071-0092-19	KAE-½HP CAG
278242	071-0092-21	KAJ-1HP CAG
278243	071-0127-13†	SSE4-1HP CAG
278244	071-0127-14†	RRH2-1HP & 1½HP PAG
278245	071-0127-08†	SRC4-2HP PAG
278246	071-0127-11†	SRD4-2HP PAG
278247	071-0127-16†	RRL4-1½HP PAZ
278248	071-0127-20†	RRJ2-1½HP PAI, RRL4-1½HP PAI
278249	071-0127-22†	RSH-½HP IAG
278250	071-0127-32†	SRB4-2HP PAG, SRB4-1½HP PAG
278251	071-0127-36†	RRH4-1½HP PAZ
278252	071-0329-15†	RRG4-1HP PAG
278253	071-0338-04	9RS & 9RT-15HP THD/M
278254	071-0339-02	9RC, 9RP & 9RS-10HP THD/M
278255	071-0339-03	9RC, 9RP & 9RS-10HP THY/E
278256	071-0339-13	9RS & 9RT-15HP THY/E
278257	071-0339-16†	PRA-7½HP THE
278258	071-0339-19†	PRA-7½HP THM/D
278259	071-0370-21†	JRR4-1HP PAZ
278260	071-0376-01*	4R-7½, 10, 15, 20 & 30HP, 6R-10, 20 & 30HP
278261	071-0397-00†*	BRK-12HP TSD/E
278262	998-0071-00*	ALL MODELS WITH FSM/FSD MOTOR CODE
278263	998-0571-00†*	BRE-7½HP TSD/E, BRG-9HP TSD/E
278364	071-0092-27	KAA-¾HP CAG
278265	071-0329-13†	RRL2-¾HP CAG
278266	071-0369-20†	JFH-1/3HP IAG

† COPELAWELD

* SOLID STATE MODULE

RELAYS

278301	040-0001-10	SSE4-1HP CAG, YSC4-1½HP CFG
278302	040-0001-14	SRC4-2HP PFG, SRC4-2HP PAG
278303	040-0001-27	RRH2-1HP PAG, RRG4-1HP, RRJ2-1½HP PAI, SRD4-2HP PAG, SRK4-2½HP PFG, JRR4-1HP PAZ, RRL4-1½HP PAZ, SRB4-2HP PAG, RRL4-1½HP PAI, RRL-¾HP CAG
278304	040-0001-30	KAE-½HP CAG, KAH-½HP CAG, KAA-¾HP CAG
278305	040-0001-31	KAJ-1HP CAG, KAT-1½HP CAS, KAL-1HP CAG, KAT-1HP CAG
278306	040-0088-02	RSH-½HP IAG, RSN-½HP IAG
278307	040-0097-01	ALL EMM MOTORS (4R, 6R & 9R)
278308	040-0090-05	JFH-1/3HP IAG
278309	540-0110-00	4R-25HP TSE, 6R-35 & 40HP TSE, ALL FSM/FSD MODELS, BRE-7½HP TSD/TSE, BRG-9HP TSD/TSE

CAT. NO.	PART NO.	COMPRESSORS PARTS USED ON
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START CAPACITORS

278276	014-0006-00	KAT-1½HP CAS
278277	014-0008-50	KAE-½HP CAG, KAH-½HP CAG, KAA-¾HP CAG
278278	014-0008-51	SSE4-1HP CAG, YSC4-1½HP CFG
278279	014-0008-64	RSH-½HP IAG, RSN-½HP IAG, RSH-½HP IAG, RRL-¾HP CAG
278280	014-0008-78	KAJ-1HP CAG, KAL-1HP CAG, KAT-1HP CAG
278281	014-0008-72	JFH-½HP IAG

RUN CAPACITORS

278286	014-0001-00	KAJ-1HP CAG, KAL-1HP CAG, KAT-1HP CAG
278287	014-0001-04	RRG4-1HP PAG, JRR4-1HP PAZ, RRL-¾HP CAG
278288	014-0002-00	KAT-1½HP CAS
278289	014-0002-02	RRH2-1HP PAG, RRH4-1½HP PAZ
278290	014-0002-06	SRB4-2HP PAG
278291	014-0002-07	SRC4-2HP PFG, SRC4-2HP PAG, SRD4-2HP PAG
278292	014-0002-09	RRJ2-1½HP PAI, RRL4-1½HP PAZ, RRL4-1½HP PAI, YSC4-1½HP CFG
278293	014-0002-10	SRK4-2½HP PFG
278294	514-0179-01	KAE-½HP CAG
278295	014-0011-01	KAH-½HP CAG
278296	014-0011-02	KAA-¾HP CAG

CAPACITY CONTROL KITS

278376	998-0016-01	9RS-7½ & 10HP, 9RC-7½ & 10HP
278377	998-0017-02	9RS-15HP
278378	998-0119-10	ALL 4R & 6R (EXCEPT 4R-30HP & 6R-40HP)
278379	998-0119-18	4R-30HP & 6R-40HP

REPAIR KITS

278390	998-0017-03	ALL 9R (COMPLETE REPLACEMENT PIPE & VALVE KIT)
278391	998-0045-00	ALL 9R (CONTROL VALVE REPAIR KIT)

SOLENOID VALVES WITH COIL

278401	510-0212-03	(ALCO) 4R & 6R
278402	020-0485-00	GASKET TO SUIT ABOVE
278403	510-0243-03	(SPORLAN) 4R & 6R
278402	020-0485-00	GASKET TO SUIT ABOVE

SOLENOID VALVES WITHOUT COIL

278408	510-0212-00	(ALCO) 4R & 6R
278402	020-0485-00	GASKET TO SUIT ABOVE
278409	510-0243-00	(SPORLAN) 4R & 6R
278402	020-0485-00	GASKET TO SUIT ABOVE

SOLENOID SPINDLE

278415	528-1074-00	ALL 9R
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SOLENOID COILS

278418	023-0026-00	(CHATLEFF) 9R (OLD TYPE)
278419	023-0037-02	(ALCO) 9R
278420	023-0039-02	(ALCO) 4R & 6R
278421	023-0041-02	(SPORLAN) 4R & 6R

VEE BELTS

A SECTION						B SECTION					
13mm x 8mm (1/2" x 5/16") ANGLE 40°						17mm x 11mm (21/32" x 25/64") ANGLE 40°					
CAT. NO.	METRIC BELT SIZE	IMP. BELT SIZE	CAT. NO.	METRIC BELT SIZE	IMP. BELT SIZE	CAT. NO.	METRIC BELT SIZE	IMP. BELT SIZE	CAT. NO.	METRIC BELT SIZE	IMP. BELT SIZE
2791	A540	A20	27953	A1840	A71	27992	B610	B22½	279141	B2070	B80
2792	A570	A21	27954	A1860	A72	27993	B650	B24	279142	B2100	B81
2793	A590	A22	27955	A1890	A73	27994	B700	B26	279143	B2130	B82
2794	A620	A23	27956	A1920	A74		B730	B27	279144	B2150	B83
2795	A640	A24	27957	A1940	A75	27995	B750	B28	279145	B2180	B84
2796	A670	A25	27958	A1960	A76	27996	B800	B30	279146	B2200	B85
2797	A700	A26	27959	A2020	A78	27997	B830	B31	279147	B2250	B87
2798	A720	A27	27960	A2050	A79		B850	B32	279148	B2280	B88
2799	A740	A28	27961	A2070	A80	27998	B880	B33	279149	B2330	B90
27910	A770	A29	27962	A2090	A81	27999	B910	B34	279150	B2350	B91
27911	A790	A30	27963	A2120	A82	279100	B930	B35	279151	B2400	B93
27912	A820	A31	27964	A2140	A83	279101	B960	B36	279152	B2460	B95
27913	A850	A32	27965	A2170	A84	279102	B980	B37	279153	B2480	B96
27914	A870	A33	27966	A2220	A85	279103	B1000	B38	279154	B2500	B97
27915	A890	A34	27967	A2240	A87		B1030	B39	279155	B2560	B99
27917	A920	A35	27968	A2270	A88	279104	B1060	B40	279156	B2580	B100
27918	A950	A36	27969	A2320	A90	279105	B1080	B41	279157	B2610	B101
27919	A970	A37	27970	A2370	A92	279106	B1100	B42	279158	B2660	B103
27920	A990	A38	27971	A2400	A93	279107	B1130	B43	279159	B2700	B105
27921	A1020	A39	27972	A2420	A94	279108	B1160	B44	279160	B2760	B107
27922	A1050	A40	27973	A2480	A96	279109	B1180	B45	279161	B2790	B108
27923	A1070	A41	27974	A2500	A97	279110	B1210	B46	279162	B2840	B110
27924	A1100	A42	27975	A2520	A98		B1240	B47	279163	B2890	B112
27926	A1130	A43	27976	A2550	A99	279111	B1260	B48	279164	B2940	B114
27927	A1150	A44	27977	A2570	A100	279112	B1290	B49	279165	B2960	B115
27928	A1180	A45	27978	A2620	A102	279113	B1310	B50	279166	B2990	B116
27929	A1200	A46	27979	A2700	A105	279114	B1340	B51	279167	B3010	B117
27930	A1230	A47	27980	A2780	A108	279115	B1370	B52	279168	B3090	B120
27931	A1250	A48		A2830	A110	279116	B1390	B53	279169	B3200	B124
27932	A1280	A49	27981	A2880	A112	279117	B1410	B54	279170	B3290	B128
27933	A1300	A50		A2950	A115	279118	B1440	B55	279171	B3370	B131
27934	A1330	A51	27982	A2980	A116	279119	B1460	B56	279172	B3390	B132
27935	A1360	A52	27983	A3080	A120	279120	B1490	B57	279173	B3500	B136
27936	A1380	A53	27984	A3190	A124	279121	B1510	B58	279174	B3600	B140
27937	A1410	A54		A3210	A125	279122	B1540	B59	279175	B3700	B144
27938	A1430	A55	27985	A3290	A128	279123	B1560	B60		B3850	B150
27939	A1460	A56		A3330	A130		B1590	B61	279176	B3900	B152
27940	A1480	A57	27986	A3480	A136	279124	B1620	B62	279177	B4060	B158
27941	A1510	A58	27987	A3590	A140	279125	B1640	B63		B4100	B160
27942	A1530	A59	27988	A3690	A144	279126	B1670	B64	279178	B4160	B162
27943	A1550	A60		A3840	A150	279127	B1690	B65	279179	B4260	B166
27944	A1580	A61	27989	A3940	A154	279128	B1720	B66	279180	B4310	B168
27945	A1610	A62		A4040	A158	279129	B1740	B67	279181	B4430	B173
27946	A1640	A63	27990	A4420	A173	279130	B1760	B68	279182	B4610	B180
27947	A1660	A64	27991	A4470	A175		B1790	B69	279183	B4710	B184
27948	A1690	A65				279131	B1820	B70	279184	B4790	B187
27949	A1710	A66				279132	B1850	B71	279185	B4950	B193
27950	A1760	A68				279133	B1870	B72	279186	B5000	B195
27951	A1790	A69				279134	B1900	B73	279187	B5220	B204
27952	A1810	A70				279135	B1920	B74	279188	B5370	B210
PULLEYS						279136	B1950	B75	279189	B6080	B238
A range of Standard Pulleys are held in stock – Enquire						279137	B1970	B76	279190	B6140	B240
Others available on application						279138	B2000	B77	279191	B6840	B268
Refer TECH. PAGE 279-b for Ordering Requirements						279139	B2020	B78	279192	B6900	B270
						279140	B2050	B79	279193	B7660	B300

VEE BELTS

C SECTION						M SECTION												
22mm x 14mm (7/8" x 9/16")						10mm x 6mm (3/8" x 1/4")												
ANGLE 40°						ANGLE 40°												
CAT No.	METRIC BELT SIZE	IMP. BELT SIZE	CAT No.	METRIC BELT SIZE	IMP. BELT SIZE	CAT No.	METRIC BELT SIZE	IMP. BELT SIZE	CAT No.	METRIC BELT SIZE	IMP. BELT SIZE							
279194	C1070	C40		C2850	C110		Z530	M20		Z1170	M45							
279195	C1120	C42	279228	C2900	C112	279261	Z560	M21		Z1190	M46							
279196	C1150	C43		C3000	C116		Z570	M21 1/2		Z1220	M47							
279197	C1180	C44	279229	C3100	C120	279262	Z625	M23 1/2		Z1240	M48							
279198	C1200	C45	279230	C3230	C125	279263	Z635	M24		Z1290	M50							
279199	C1230	C46	279231	C3310	C128		Z660	M25		Z1320	M51							
279200	C1280	C48	279232	C3410	C132		Z680	M26		Z1350	M52							
279201	C1350	C51		C3510	C136	279264	Z700	M27		Z1370	M53							
279202	C1380	C52		C3610	C140	279265	Z730	M28		Z1400	M54							
	C1430	C54		C3660	C142		Z760	M29		Z1420	M55							
279203	C1450	C55	279233	C3710	C144		Z780	M30		Z1450	M56							
	C1480	C56	279234	C3760	C146		Z810	M31		Z1500	M58							
	C1500	C57		C3860	C150	279266	Z840	M32		Z1540	M60							
	C1530	C58	279235	C3910	C152		Z860	M33		Z1570	M61							
279204	C1560	C59		C3960	C154	279267	Z890	M34		Z1630	M63							
279205	C1580	C60	279236	C4060	C158	279268	Z920	M35		Z1680	M65							
	C1600	C61		C4110	C160	279269	Z940	M36		Z1750	M68							
279206	C1650	C63	279237	C4160	C162		Z960	M37		Z1930	M75							
	C1680	C64	279238	C4320	C168	279270	Z990	M38		Z2310	M90							
279207	C1700	C65		C4370	C170	279271	Z1010	M39										
279208	C1780	C68	279239	C4450	C173	279272	Z1040	M40										
279209	C1830	C70	279240	C4630	C180	279273	Z1060	M41										
279210	C1860	C71		C4750	C185	279274	Z1080	M42										
279211	C1880	C72	279241	C5010	C195		Z1120	M43										
	C1930	C74	279242	C5230	C204		Z1140	M44										
279212	C1950	C75	279243	C5380	C210	SPB SECTION WAS BETA/5V 16mm x 13mm (5/8" x 17/32")												
	C1980	C76	279244	C5530	C216													
279213	C2040	C78	279245	C5740	C224													
	C2080	C80	279246	C5760	C225													
279214	C2110	C81	279247	C5840	C228	CAT No.	BELT DESIGNATION	CAT No.	BELT DESIGNATION									
	C2160	C83	279248	C6090	C238		NOW	WAS	NOW	WAS								
279215	C2200	C85	279249	C6150	C240		SPB 1260	500	SPB 3340	1320								
	C2260	C87	279250	C6550	C256		1340	530	3550	1400								
	C2290	C88	279251	C6850	C268		1410	560	3800	1500								
279216	C2340	C90	279252	C6910	C270		1590	630	4060	1600								
	C2390	C92	279253	C7060	C276		1800	710	4310	1700								
279217	C2390	C92	279253	C7060	C276		2020	800	4560	1800								
279219	C2420	C93	279254	C7610	C298		2150	850	4820	1900								
	C2470	C95	279255	C7680	C300		2280	900	5070	2000								
279220	C2490	C96	279256	C8370	C328		2410	950	5380	2120								
279221	C2520	C97	279257	C8420	C330		2530	1000	5680	2240								
279223	C2570	C99	279258	C9140	C358		2680	1060	5990	2360								
279224	C2600	C100	279259	C9190	C360		2840	1120	6340	2500								
279225	C2620	C101	279260	C10660	C418		2990	1180	7100	2800								
279226	C2720	C105					3170	1250	7990	3150								
279227	C2800	C108				SPP SECTION WAS DELTA/8V 25mm x 23mm (1" x 29/32")												
						CAT No.	BELT	CAT No.	BELT	CAT No.	BELT							
							SPP 2520	1000		SPP 5670	2240							
							2830	1120		6330	2500							
							3160	1250		7100	2800							
							3540	1400		7990	3150							
							4050	1600		9000	3550							
							4560	1800		10140	4000							
							5060	2000		11410	4500							
SPZ SECTION WAS ALPHA/3V 10mm x 8mm (3/8" x 5/16")						SPC SECTION 22mm x 18mm												
												CAT No.	BELT DESIGNATION	CAT No.	BELT DESIGNATION	CAT No.	BELT	
													NOW	WAS	NOW	WAS	NOW	WAS
													SPZ 630	250	SPZ 1800	710	SPC 2000	SPC 4000
													710	280	1900	750	2240	SPC 8000
													800	315	2030	800	2500	4500
													900	355	2160	850	2800	5000
													1010	400	2280	900	3150	6300
													1140	450	2410	950	3550	7100
													1270	500	2540	1000		
													1340	530	2690	1060		
													1420	560	2840	1120		
	1520	600	2990	1180														
	1600	630	3170	1250														
	1700	670	3550	1400														

NOTE: FIRST 3 NUMERALS OF CAT. No. INDICATES PAGE No.

4

VEE BELTS

GENERAL INFORMATION

Space does not permit inclusion of detailed design and selection information and the user is recommended to use manufacturers readily available literature on this aspect.

A, B, C & M Section V-Belts are Catalogued herein.

D & E Section V-Belts are available on application.

R Section V-Belts — for Refrigerators, Washing Machines etc. — are no longer available and the Chart below shows the nearest equivalent Commercial type. However, no guarantee of belt life or performance can be given under these circumstances as the angle of the belt and pulley may be at slight variance. Where no nearest equivalent is shown, it means that no commercial belts will substitute satisfactorily and we suggest you check in such cases re the possibility of having new pulleys fitted to match available V-Belt Sections.

SPZ (Alpha/3V), SPB (Beta/5V), SPP (Delta/8V) and SPC Section V-Belts are designed to provide Compact Drive Systems and are generally capable, when selected correctly, of handling up to three times as much power in a given space as the traditional V-Belt Drives.

R. SECTION EQUIVALENTS					
OLD R NO.	IMP. SIZE EQUIV.	OLD R NO.	IMP. SIZE EQUIV.	OLD R NO.	IMP. SIZE EQUIV.
R.100	B.38	R.138	B.60	R.171	A.52
R.106	C.75	R.140	B.57	R.172	A.50
R.107	C.78	R.142	B.46	R.173	A.42
R.108	C.81	R.143	B.45	R.174	A.35
R.110	C.55	R.146	B.44	R.175	A.34
R.112	C.65	R.147	B.35	R.176	A.32
R.115	C.48	R.148	B.42	R.177	B.35
R.118	C.46	R.149	—	R.178	—
R.119	C.51	R.150	B.38	R.179	A.35
R.120	C.48	R.151	B.38	R.181	A.68
R.124	—	R.157	B.33	R.182	A.33
R.125	—	R.158	B.33	R.183	A.30
R.127	C.70	R.160	—	R.185	A.27
R.128	B.51	R.163	A.38	R.186	—
R.129	C.60	R.164	—	R.190	M.32
R.130	B.52	R.165	B.48	R.191	M.34
R.131	B.52	R.167	A.51	R.192	M.35
R.132	B.33	R.168	A.56	R.193	M.36
R.136	B.63	R.169	A.65	R.194	—
R.137	B.105	R.170	A.60	—	—

PULLEY ORDERING REQUIREMENTS

1. Diameter, PCD (Pitch Circle Diameter)
2. Number of Sections and Type e.g. A, B, C etc.
3. Bore and keyway requirements
4. Boss details — flush, extended etc.

NOMENCLATURE

A, B, C, D, E, M Section V-Belts

Imperial Belt Size e.g. A30, B50

Number = Internal Length (Circumference) in Inches.

Metric Belt Size e.g. A790, B1310

Number = Nominal Pitch Length (Circumference) in mm.

SPZ, SPB, SPP, SPC Section V-Belts

Old Numbers e.g. 3V250

Number = Outside Length (Circumference) Divided by 10.

New Numbers e.g. SPZ630

Number = Nominal Pitch Length (Circumference) in mm.

BASIC PULLEY & BELT FORMULAE

$$\text{DIAM. DRIVER} = \frac{\text{DIAM. DRIVEN} \times \text{RPM DRIVEN}}{\text{RPM DRIVER}}$$

$$\text{DIAM. DRIVEN} = \frac{\text{DIAM. DRIVER} \times \text{RPM DRIVER}}{\text{RPM DRIVEN}}$$

$$\text{RPM DRIVER} = \frac{\text{DIAM. DRIVEN} \times \text{RPM DRIVEN}}{\text{DIAM. DRIVER}}$$

$$\text{RPM DRIVEN} = \frac{\text{DIAM. DRIVER} \times \text{RPM DRIVER}}{\text{DIAM. DRIVEN}}$$

EFFECTIVE OUTSIDE BELT LENGTH (L)

$$L = 2C + 1.57(D + d) + \frac{(D - d)^2}{4C}$$

Where C = Centre distance between pulleys
 D = Large diameter pulley
 d = Small " "

SERVICE FACTORS FOR V-BELT DRIVES

TYPES OF DRIVEN MACHINES		TYPES OF DRIVING UNITS					
		A.C. motors; normal torque squirrel cage, synchronous and split phase. D.C. motors; shunt wound. Internal combustion engines over 600 RPM.			A.C. motors; high torque, high slip, repulsion-induction, single phase, series wound and slip ring. D.C. motors; series wound and compound wound. Single-cylinder engines and internal combustion engines under 600 RPM, line shafts, clutches, brakes, direct on line starting		
Special cases	For speed-up and reversing drives subtract 20 per cent from the factors, except where high torque is not present on starting	Operational hours per day					
		10 and under	Over 10 to 16 inclusive	Over 16 and continuous service	10 and under	Over 10 to 16 inclusive	Over 16 and continuous service
Light duty	Agitators for liquids, blowers and exhausters Centrifugal pumps and compressors Fans up to 10 h.p.	1.0	1.1	1.2	1.1	1.2	1.3
Medium duty	Fans over 10 h.p. Generators Line shafts Machine tools Punches, presses, shears Positive displacement rotary pumps	1.1	1.2	1.3	1.2	1.3	1.4
Heavy duty	Piston compressors Piston pumps Positive displacement blowers Saw-mill and woodworking machinery	1.2	1.3	1.4	1.4	1.5	1.6

COOL ROOMS AND COOL ROOM EQUIPMENT

GENERAL NOTES ON SELECTION

The various estimating charts for Cool Room heat loads are widely differing in final results due to the difficulty in obtaining accurate information regarding operational conditions. The main sources of heat load in a refrigerated space are —

1. Wall Heat Leakage
2. Air Changes (Door openings and infiltration)
3. Product Load
4. Electrical Load (Lights, Fan Motors etc.)
5. Product Respiration

Listed below are Selection Charts for WALK-IN FREEZERS [−17.8°C (0°F)] and WALK-IN COOL ROOMS [1.7°C (35°F)]

−17.8°C(0°F) SELECTION CHART FOR WALK-IN FREEZERS −17.8°C(0°F)

Loads based on — 6" Cork Insulation or Equivalent
35°C(95°F) Outside Temperature [52.8°C (95°F) TD]
18 Hours Compressor Operation

Outside Dimensions of Freezer in Feet W L H	COLD STORAGE (No Product Freezing)		FOOD FREEZING LOAD kg(lbs) PER 24 HRS. (Product entering at 4.4°C (40°F))									
			136kg (300lbs)		341kg (750lbs)		682kg (1500lbs)		1364kg (3000lbs)			
	BTU/Hr.	Watts	BTU/Hr.	Watts	BTU/Hr.	Watts	BTU/Hr.	Watts	BTU/Hr.	Watts		
6 x 6 x 9	3,950	1158	6,150	1802	9,450	2770						
6 x 7 x 9	4,550	1334	6,750	1978	10,050	2945						
6 x 8 x 9	4,850	1421	7,050	2066	10,350	3033						
6 x 9 x 9	5,150	1509	7,350	2154	10,650	3121						
6 x 10 x 9	5,500	1612	7,700	2257	11,000	3224						
7 x 7 x 9	4,900	1436	7,100	2081	10,400	3048						
7 x 8 x 9	5,300	1553	7,500	2198	10,800	3165						
7 x 9 x 9	5,600	1641	7,800	2286	11,100	3253						
7 x 10 x 9	6,150	1802	8,350	2447	11,650	3414	16,600	4865				
7 x 12 x 9	6,800	1993	9,000	2638	12,300	3605	17,150	5026				
8 x 8 x 9	5,700	1671	7,900	2315	11,200	3283	17,800	5217				
8 x 9 x 9	6,250	1832	8,450	2477	11,750	3444	17,250	5056				
8 x 10 x 9	6,650	1949	8,850	2594	12,150	3561	17,650	5173				
8 x 12 x 9	7,350	2154	9,550	2799	12,850	3766	18,350	5378				
8 x 14 x 9	8,200	2403	10,400	3048	13,700	4015	19,200	5627				
9 x 9 x 9	6,650	1949	8,850	2594	12,150	3561	17,650	5173				
9 x 10 x 9	7,050	2066	9,250	2711	12,550	3678	18,050	5290				
9 x 12 x 9	7,900	2315	10,100	2960	13,400	3927	18,900	5539				
9 x 14 x 9	8,750	2564	10,950	3209	14,250	4176	19,750	5788				
9 x 16 x 9	9,450	2770	11,650	3414	14,950	4382	20,450	5994				
10 x 10 x 9	7,450	2183	9,650	2828	12,950	3795	18,450	5407	29,450	8631		
10 x 12 x 9	8,500	2491	10,700	3136	14,000	4103	19,500	5715	30,500	8939		
10 x 14 x 9	9,300	2726	11,500	3370	14,800	4338	20,300	5950	31,300	9174		
10 x 16 x 9	10,000	2931	12,200	3576	15,500	4543	21,000	6155	32,000	9379		
10 x 18 x 9	11,100	3253			16,600	4865	22,100	6477	33,100	9701		
12 x 12 x 9	9,400	2755			14,900	4367	20,400	5979	31,400	9203		
12 x 14 x 9	10,350	3033			15,805	4632	21,350	6257	32,350	9481		
12 x 16 x 9	11,250	3297			16,750	4909	22,250	6521	33,250	9745		
12 x 18 x 9	12,300	3605			17,800	5217	23,300	6829	34,300	10052		
12 x 20 x 9	13,000	3810			18,500	5422	24,000	7034	35,000	10258		
14 x 14 x 9	11,350	3326			16,850	4938	22,350	6550	33,350	9774		
14 x 16 x 9	12,500	3663			18,000	5275	23,500	6887	34,500	10110		
14 x 18 x 9	13,400	3927			18,900	5539	24,400	7151	35,400	10375		
14 x 20 x 9	14,250	4176			19,750	5788	25,250	7400	36,250	10624		
16 x 16 x 9	13,550	3971			19,050	5583	24,550	7195	35,550	10419		
16 x 18 x 9	14,500	4250			20,000	5862	25,500	7474	36,500	10698		
16 x 20 x 9	15,400	4513			20,900	6125	26,400	7737	37,400	10961 *		
18 x 18 x 9	15,500	4543			21,000	6155	26,500	7767	37,500	10990 *		
18 x 20 x 9	16,750	4909			22,250	6521	27,750	8133	38,750	11357 *		
20 x 20 x 9	17,800	5217			23,300	6829	28,800	8441	39,800	11665 *		

1.7°C(35°F) SELECTION CHART FOR WALK-IN COOL ROOMS 1.7°C(35°F)

Loads based on — 4" Cork Insulation or Equivalent
35°C (95°F) Outside Temperature [36.7°C (60°F) TD]
16 Hours Compressor Operation

Outside Dimensions Cool Room, Feet W L H	AVERAGE USAGE		HEAVY USAGE		Outside Dimensions Cool Room, Feet W L H	AVERAGE USAGE		HEAVY USAGE	
	LOAD — 16 HOUR COMPRESSOR OPERATION					LOAD — 16 HOUR COMPRESS. OPERATION			
	BTU/Hr.	Watts	BTU/Hr.	Watts		BTU/Hr.	Watts	BTU/Hr.	Watts
6 x 6 x 9	3,050	894	3,650	1070	10 x 10 x 9	6,850	2008	8,400	2462
6 x 7 x 9	3,500	1026	4,200	1231	10 x 12 x 9	7,800	2286	9,650	2828
6 x 8 x 9	3,800	1114	4,650	1363	10 x 14 x 9	8,900	2608	11,200	3283
6 x 9 x 9	4,200	1231	5,100	1495	10 x 16 x 9	9,650	2828	12,300	3605
6 x 10 x 9	4,600	1348	5,600	1641	10 x 18 x 9	10,600	3107	13,400	3927
7 x 7 x 9	3,900	1143	4,750	1392	12 x 12 x 9	9,050	2652	11,100	3253
7 x 8 x 9	4,350	1275	5,300	1553	12 x 14 x 9	10,000	2931	12,700	3722
7 x 9 x 9	4,750	1392	5,800	1700	12 x 16 x 9	11,000	3224	13,900	4074
7 x 10 x 9	5,150	1509	6,400	1876	12 x 18 x 9	12,100	3546	15,300	4484
7 x 12 x 9	5,900	1729	7,350	2154	12 x 20 x 9	13,200	3869	16,200	4748
8 x 8 x 9	4,800	1407	5,850	1715	14 x 14 x 9	11,150	3268	14,100	4132
8 x 9 x 9	5,250	1539	6,450	1890	14 x 16 x 9	12,350	3620	15,500	4543
8 x 10 x 9	5,700	1671	7,100	2081	14 x 18 x 9	13,500	3957	16,900	4953
8 x 12 x 9	6,600	1934	7,950	2330	14 x 20 x 9	14,750	4323	18,100	5305
8 x 14 x 9	7,500	2198	9,300	2726	16 x 16 x 9	13,500	3957	17,100	5012
9 x 9 x 9	5,750	1685	7,150	2096	16 x 18 x 9	14,850	4352	18,000	5275
9 x 10 x 9	6,250	1832	7,750	2271	16 x 20 x 9	16,100	4719	20,000	5862
9 x 12 x 9	7,300	2140	9,050	2652	18 x 18 x 9	16,300	4777	20,200	5920
9 x 14 x 9	8,200	2403	10,500	3077	18 x 20 x 9	17,500	5129	21,700	6360
9 x 16 x 9	9,050	2652	11,700	3429	20 x 20 x 9	19,300	5657	23,100	6770

NOTES: 1. Increase or decrease cooler loads by 10% for every 5° increase or decrease in temp. difference between cooler temp. and outside temp. Do not use for more than 10° variance.

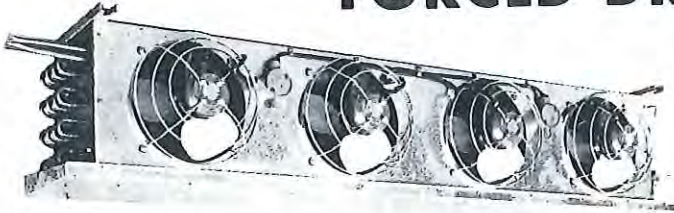
2. Load figures shown above have a safety factor applied which covers normal usage, product cooling and other sources of heat gain, such as lighting, occupancy, etc.

SEE FURTHER NOTES IN TECHNICAL SECTION

FORCED DRAFT COOLERS

COLDSTREAM – FOR R12 AND R22

KOLDFLO EVAPORATORS F.D.C.



REFRIGERATOR APPLICATIONS – ABOVE 35°F (1.7°C)

The Coldstream FROST FILTER BANK include a built in heat exchanger and heavy aluminium fins and housing with heavy gauge copper tubing.

Hourly ratings in btu/hour are based on laboratory tests in dry air at average temperature differences of 10°F, 12°F and 15°F (.6°C, 6.7°C and 8.3°C). Normal usage involves moisture in the room and appropriate allowance should be made for actual conditions.

For daily btu capacity, Multiply model number of evaporator by 1,000. The answer (varying with conditions) will be the capacity of the evaporator at about 17°F (9.4°C) average temperature difference operating on an off cycle defrost with wet surface evaporator and with a condensing unit operating 40 minutes in the hour or 16 hours per day.

CAT. NO.	MODEL FOOT-HI	MODEL DOUBLE FOOT-HI	BTU/HR at Average TD			FANS				CORE	
			.6°C (1°F)	6.7°C (12°F)	8.3°C (15°F)	QTY.	DIAM.	WATTS	CFM	SQ.FT	CODE
2911	K2R094		390	4700	5650	2	10"	100	1200	64	B 8/26
2912	K2R137		570	6300	8550	2	10"	100	1150	105	C 8/26
2913	K2R168		700	8400	10500	2	10"	100	1100	146	D 8/26
2914	K2R198		820	9800	12300	2	10"	100	1250	95	C 8/36
2915	K2R240		1000	12000	15000	2	10"	100	1200	208	D 8/36
29115		VR250	1040	12500	15600	1	16"	180	1700	210	C16/26
29116		VR305	1270	15300	19000	1	16"	180	1650	292	D16/26
2916	K3R360		1500	18000	22500	3	10"	150	1800	303	D 8/54
29117		V2R422	1760	21100	26400	2	16"	360	3300	294	C16/36
2917	K4R480		2000	24000	30000	4	10"	200	2400	417	D 8/72
29118		V2R528	2200	26400	33000	2	16"	360	3200	417	D16/36
2918	K5R600		2500	30000	37500	5	10"	250	3000	522	D 8/90
29119		V3R633	2640	31700	39600	3	16"	540	4950	449	C16/54
2919	K6R720		3000	36000	45000	6	10"	300	3600	626	D8/108
29120		V3R792	3300	39600	49500	3	16"	540	4800	626	D16/54
29121		V4R1056	4400	52800	66000	4	16"	720	6400	835	D16/72

FREEZER APPLICATIONS – BELOW 35°F (1.7°C)

The Coldstream FROST FILTER BANK on these F.D.C. is double that on evaporators for higher temperature rooms. Also included are built in heat exchanger, low heat electric defrost heaters (quickly replaceable), heavy aluminium fins and housing with heavy gauge copper tubing.

Hourly ratings in btu/hour, shown at 10°F and 12°F (5.6°C and 6.7°C) average temperature difference assume light frosting and suitable allowance must be made if heavier frosting is permitted.

For daily btu capacity, multiply model number of evaporator by 1,000. The answer (varying with conditions) will be the capacity of the evaporator at about 12°F (6.7°C) average temperature difference operating with time initiated pressure terminated electric defrost with a condensing unit operating 50 minutes in the hour or 20 hours per day.

CAT. NO.	MODEL FOOT-HI	MODEL DOUBLE FOOT-HI	BTU/HR at Av. TD		HEATER WATTS	FANS				CORE	
			5.6°C (10°F)	6.7°C (12°F)		QTY.	DIAM.	WATTS	CFM	SQ.FT	CODE
29126	K2F056		3300	3960	1500	2	10"	100	1200	64	B 8/26
29127	K2F096		4800	5760	1500	2	10"	100	1150	105	C 8/26
29128	K2F118		5900	7080	1500	2	10"	100	1100	146	D 8/26
29129	K2F140		7000	8400	1500	2	10"	100	1250	95	C 8/36
29130	K2F168		8400	10080	1500	2	10"	100	1200	208	D 8/36
29140		VF176	8800	10560	3000	1	16"	180	1700	210	C16/26
29141		VF214	10700	12840	3000	1	16"	180	1650	292	D16/26
29131	K3F252		12600	15120	3000	3	10"	150	1800	303	D 8/54
29142		V2F296	14800	17790	3000	2	16"	360	3300	294	C16/36
29132	K4F336		16800	20160	3000	4	10"	200	2400	417	D 8/72
29143		V2F370	18500	22200	3000	2	16"	360	3200	417	D16/36
29133	K5F420		21000	25200	4500	5	10"	250	3000	522	D 8/90
29144		V3F444	22200	26640	4500	3	16"	540	4950	449	C16/54
29134	K6F504		25200	30240	4500	6	10"	300	3600	626	D8/108
29145		V3F554	27700	33204	4500	3	16"	540	4800	626	D16/54
29146		V4F740	37000	44400	4500	4	16"	720	6400	835	D16/72

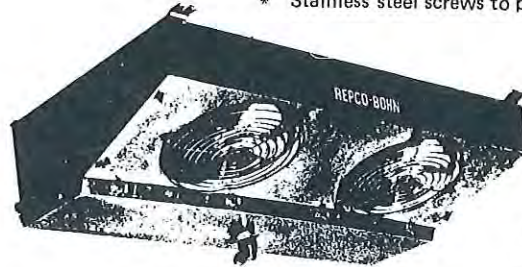
FORCED DRAFT COOLERS REPCO-BOHN

"TOP-AIR" FEATURES

- * Low silhouette.
- * Grained aluminium cabinets - light weight.
- * Fan motor harness with moulded male plug provided inside unit.
- * Expansion valve inside cabinet.
- * Fan motors sealed and lubricated for life.
- * Stainless steel screws to prevent rust streaks.



MODEL TA - TL
MEDIUM TEMP.



MODEL TE
LOW TEMP.

NOTE

All fan motors & heaters rated on
240 volts — 1 Ph. — 50 Hz.

MODEL TA — MEDIUM TEMPERATURE

APPLICATIONS : Display type Refrigerators, Back Bar Units, Under Counter Cabinets, wherever space is at a premium.

CAT. NO.	MODEL No.	WATTS AT 5.6K	AIR L/s	SECONDARY SURFACE m ²	FAN MOTORS		OVERALL DIMENSIONS — mm		
					No. OFF	WATTS TOTAL	H	W	D
29151	100TA	293	56.6	2.193	1	30	115	420	355
29152	130TA	381	80.2	2.824	2	60	115	520	355
29153	170TA	498	99.1	3.400	2	60	115	610	381
29154	230TA	674	141.6	4.580	3	90	115	800	381
29155	300TA	879	169.9	5.946	3	90	115	1016	381
29156	400TA	1172	283.1	7.153	2	130	185	965	450

4

MODEL TL — LOW TEMPERATURE — AUTO DEFROST

FEATURES:

Mechanical contact between heater element and drip tray ensures a warm tray during defrost cycle. Defrost terminates on coil temperature, eliminating excessive defrost period. Built-in fan delay ensures chilled and dry coil before returning to normal cooling cycle. Quick access to defrost heaters and controls from bottom of unit by removing drip tray. Full operating and installation details plus wiring diagram inside cabinet.

APPLICATIONS :

Display type Refrigerators, Ice Cream Cabinets, Bakery Freezers, Commercial Freezers.

CAT NO	MODEL No.	WATTS AT 5.6K	AIR L/s	SECONDARY SURFACE m ²	FAN MOTORS		O/A DIMENSIONS — mm			DEFROST WATTS TOTAL
					No. OFF	WATTS TOTAL	H	W	D	
29166	92TL	270	61.3	1.914	1	30	115	419	356	500
29167	120TL	352	87.3	2.453	2	60	115	521	356	600
29168	155TL	454	103.8	3.400	2	60	115	610	381	700
29169	210TL	615	141.6	4.394	1	65	165	610	419	900

MODEL TE — LOW TEMPERATURE — AUTO DEFROST

FEATURES :

A drip tray heater is provided to ensure a warm drip tray during defrost cycle. The drain fitting is a flared connection and can be rotated through 360°. Defrost terminates on coil temperature, eliminating excessive defrost period. Built-in fan delay ensures chilled and dry coil before returning to normal cycle. All models provided with equalizing connection for expansion valve. Quick access to defrost heaters, controls and fan motors from bottom of unit by removing drip tray or fan panel.

APPLICATIONS :

Full operating and installation details included, together with wiring diagram inside cabinet. Display type Refrigerators, Commercial Freezers, Walk-in Cold Rooms.

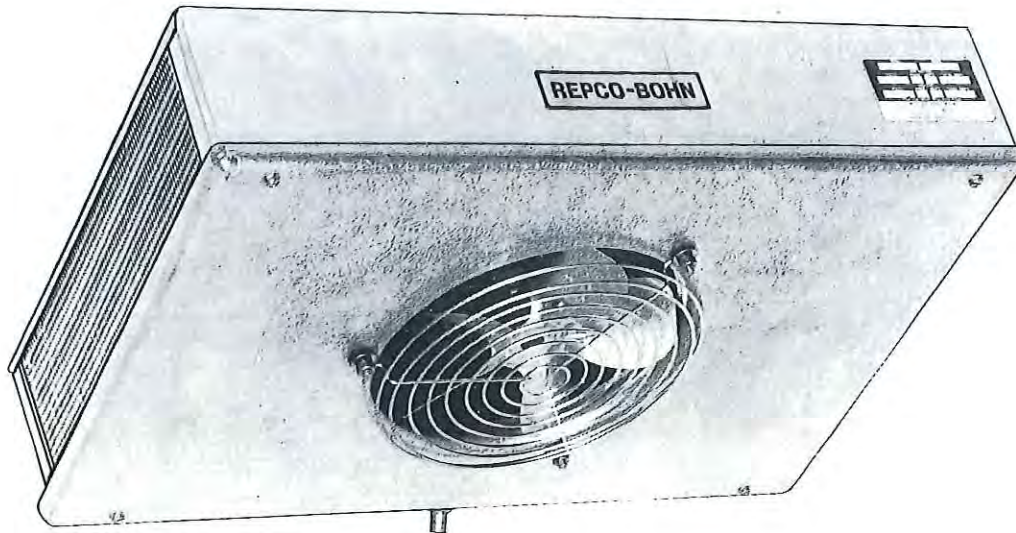
CAT. NO.	MODEL No.	WATTS AT 5.6K	AIR L/s	SECONDARY SURFACE m ²	FAN MOTORS		O/A DIMENSIONS — mm			DEFROST HEATER WATTS
					No. OFF	WATTS TOTAL	H	W	D	
29159	290TE	850	236.0	5.844	2	130	184	789	470	1335
29160	350TE	1025	283.1	7.163	2	130	184	965	470	1535
29161	520TE	1524	434.2	9.225	3	195	184	1248	470	1985
29162	700TE	2052	717.3	11.120	3	300	184	1759	521	2750

FORCED DRAFT COOLERS

REPCO-BOHN Model T.A.S

"TOP-AIR"

medium temperature unit cooler



APPLICATION

This is a low silhouette unit that will mount in the top of a refrigerator. It is particularly designed for bottle or glass storage cabinets, under bar or back bar cabinets where a low profile unit with positive lateral airflow for even cabinet cooling is essential and where space is at a premium.

FEATURES

- Attractive leather grained aluminium cabinet, light weight and corrosion resistant.
- Fan motor wiring harness with quick disconnecting moulded plug.
- Electrical Certificate of suitability CS 357N.
- Room inside cabinet for expansion valve or capillary tube.
- Stainless steel screws to prevent rust streaks.
- Suction line accumulator located inside cabinet as an integral part of unit.
- Drain connection at rear of unit.
- Knockouts provided to allow flexibility for connections.
- Flat plate type fins, widely spaced, with full collars covering copper tube for greater efficiency, longer life and ice-up-free service.
- Fan motors sealed and lubricated for life and impedance protected.
- Evaporators protected with exclusive Bohn-Kote finish.
- LARGE 200mm DIAMETER FAN

CAPACITY DATA

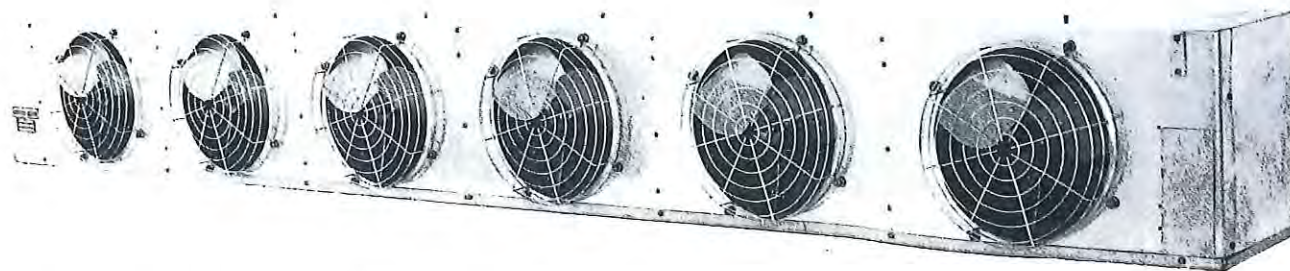
CAT. NO.	MODEL No.	CAPACITY		AIR FLOW		FAN MOTOR		OVERALL DIMENSIONS - mm		
		WATTS @ 5.6K TD	BTU/HR @ 10°F TD	L/s	CFM	No. OFF	WATTS TOTAL	H	W	D
291166	TAS 250	735	2500	142	300	1	65	130	575	385
291167	TAS 300	900	3000	142	300	1	65	130	575	385

Note : All Fan Motors rated on 240 Volts - 1 Ph. - 50 Hz.

THE BITTERNESS OF POOR QUALITY REMAINS LONG AFTER THE SWEETNESS OF LOW PRICE IS FORGOTTEN

FORCED DRAFT COOLERS

REPCO-BOHN Model A.D.T.H. "TRIM-AIR" medium temperature unit cooler



APPLICATION

The Repco-Bohn 'Trim Air' is a low silhouette unit cooler only 375 mm in height and mounts flush to the ceiling. This unit is ideal for coldrooms where space and headroom is a premium.

With a normal operating range of 1.5°C and above, they are ideally suited for all commercial walk-in coolrooms particularly where ceiling heights are restricted.

The Repco-Bohn 'Trim-Air' is an induced draught unit cooler with the air being drawn over the coil which greatly assists in even air distribution throughout the coolroom and over the coil.

FEATURES

- Repco-Bohn Model H3 Heat Exchanger internally fitted. (Refer to data sheet for performance.)
- Attractive light grained aluminium cabinet, light in weight and with slotted hangers for easy installation.
- Fully factory wired for easy installation.
- Fan motor harness with moulded male plugs provided inside unit for quick service and connection.
- Electrical certificate of suitability CS 357N.
- Low silhouette only 375 mm high.
- Fan motor, guard and blades easily removed from the front of the unit.
- Fan motors located within cabinet space.
- Interchangeable fans and motors for complete range.
- Space for expansion valve with cabinet and all coils supplied with equalizing connection.
- Rounded corners on cabinet and drip tray for easy cleaning.
- Sloped drip tray from each end with centre drain connection for positive condensate outlet.
- Rustproof hardware and stainless steel screws throughout to maintain quality and appearance.
- Plate type fins with full collars covering copper tube for greater efficiency and longer life.
- Generous coil and fan capacities giving dependable accurate ratings.
- Complete range of nine models from 1640-9903 watts at 5.6K.
- Full operating instructions and installation details included together with wiring diagram inside cabinet.
- Fan motors sealed and lubricated for life and impedance protected.
- 305mm fan blade fitted to all models.
- Fan dividers on each fan section gives better coil performance.

4

CAPACITY DATA

CAT. NO.	MODEL No.	WATTS AT 5.6K	AIR L/s	FAN MOTORS		OVERALL DIMENSIONS – mm			MODEL HEAT EXCHANGER
				No. OFF	WATTS TOTAL	H	W	D	
29176	560 ADTH	1640	349.2	1	100	375	737	289	H3-100
29177	760 ADTH	2226	637.1	2	200	375	1016	289	H3-100
29178	940 ADTH	2754	637.1	2	200	375	1016	289	H3-100
29179	1120 ADTH	3281	698.4	2	200	375	1245	289	H3-150
29180	1370 ADTH	4014	1047.6	3	300	375	1753	289	H3-200
29181	1680 ADTH	4922	1047.6	3	300	375	1753	289	H3-200
29185	1830 ADTH	5361	1396.8	4	400	375	2261	289	H3-300
29182	2250 ADTH	6592	1396.8	4	400	375	2261	289	H3-300
29183	2810 ADTH	8233	1746.1	5	500	375	2769	289	H3-500
29184	3380 ADTH	9903	2035.2	6	600	375	3277	289	H3-500

Note : All Fan Motors rated on 240 Volts – 1 Ph. – 50 Hz.

291-d

FORCED DRAFT COOLERS

REPCO-BOHN Model L.E.T.H. "TRIM-AIR" low temperature unit cooler



APPLICATION

The Repco-Bohn 'Trim Air' is a low silhouette unit cooler only 375mm in height and mounts flush to the ceiling. This unit is ideal for coldrooms where space and headroom is a premium.

With a normal operating range of plus 1.0°C down to minus 29°C they are ideally suited for all commercial walk-in coldroom applications from butchers through to freezers and ice cream stores.

These units incorporate all the features of the Repco-Bohn EL defrost system with defrost termination, fan delay and high temperature limit safety thermostats, factory wired and terminating in a junction box on the cabinet.

A drip tray heater is also provided to ensure a warm drip tray during defrost cycle.

The drain fitting is a 5/8" male flare connection.

FEATURES

- Repco-Bohn Model H3 Heat Exchanger internally fitted. (Refer to data sheet for performance.)
- Electrical certificate of suitability CS 357N.
- Defrost terminates on coil temperature, eliminating excessive defrost period.
- Built-in fan delay ensures chilled dry coil before returning to normal cooling cycle.
- Built high limit safety thermostat on defrost cycle.

- 305mm fan blades on all models.
- Fan divider on each fan section gives better coil performance
- Fully factory wired for easy installation.
- Fan motor harness with moulded male plugs provided inside unit for quick service and connection.
- Fan motor, fan spider and blades easily removed as a complete assembly from the front of the unit.
- Fan motors located within cabinet space.
- Interchangeable fans and motors for complete range.
- Space for expansion valve within cabinet and all coils supplied with equalizing connection.
- Attractive light grained aluminium cabinet, light weight and with hangers for easy mounting.
- Rounded corners on cabinet and drip tray for easy cleaning.
- Sloped drip tray from each end with centre drain connection for positive condensate outlet.
- Rustproof hardware, stainless steel screws throughout to maintain quality and appearance.
- Plate type fins with full collars covering copper tube for greater efficiency and longer life.
- Generous coil and fan capacities giving dependable accurate ratings.
- Complete range of ten models from 1319 to 7913 watts at 5.6K (evaporation suction temperature minus 28.9°C).

CAPACITY DATA

CAT. NO.	MODEL No.	WATTS AT 5.6K	AIR L/s	FAN MOTORS		OVERALL DIMENSIONS – mm			DEFROST HEATER WATTS	MODEL HEAT EXCH.
				No. OFF	WATTS TOTAL	H	W	D		
29188	LETH 45*	1319	349.2	1	100	375	737	289	1000	H3-100
29195	LETH 63*	1845	637.1	2	200	375	1016	289	1600	H3-100
29189	LETH 72*	2110	637.1	2	200	375	1016	289	1600	H3-150
29190	LETH 90*	2638	698.4	2	200	375	1245	289	2000	H3-200
29196	LETH 111*	3552	1047.6	3	300	375	1753	289	3000	H3-200
29191	LETH 135*	3957	1047.6	3	300	375	1753	289	3000	H3-200
29197	LETH 148**	4336	1396.8	4	400	375	2261	289	4000	H3-300
29192	LETH 180**	5275	1396.8	4	400	375	2261	289	4000	H3-300
29193	LETH 225**	6545	1746.1	5	500	375	2769	289	5000	H3-500
29194	LETH 270**	7913	2035.2	6	600	375	3277	289	6000	H3-500

Note :

* Fan Motors and Defrost Heaters rated on 240 Volts – 1 Ph. – 50 Hz.

** Fan Motors rated on 240 Volts – 1 Ph. – 50 Hz. Heaters rated on 415 Volts – 3 Ph. – 50 Hz.

FORCED DRAFT COOLERS

REPCO-BOHN Models T.E., T.L., and L.E.T. low temperature electric defrost system



REPCO-BOHN
DEFROST SYSTEM

BOHN low temperature unit coolers are equipped with exclusive BOHN-EL electric defrost system. This unique system utilizes high quality tubula heaters having exceptionally long life. The Incoloy (high nickel-steel alloy) sheath gives lasting protection from oxidation and corrosion. The heaters snap into slots provided in the finned surface of the coil. They are easily removed when servicing is required.

A defrost termination thermostat and fan delay control plus a heater safety control fitted on all models. These controls and heater elements are factory wired to a junction box.

The positive heat source provided by the electric heaters insures complete defrosting under all conditions. The factory set defrost control automatically adjusts the length of defrost to the frost loading conditions.

Units incorporating this reliable, completely automatic defrost system are extremely easy to install and service.

The fast defrost obtained by the use of the BOHN-EL system minimizes box and product temperature rise during the defrost cycle.

SEQUENCE OF OPERATION

In the following description, Switch "A" and "B" are located in the timer to be used with the BOHN-EL defrost system. (Paragon 8145/21).

Switch "A" controls current to the compressor motor or the holding coil of the compressor motor starter and the unit cooler fan motors.

Switch "B" controls current to the defrost heater(s) or to the holding coil of a magnetic contactor handling the defrost heater amperage.

STEP "A" — During Normal Refrigeration Operation:

1. Switch "A" in timer is closed. Switch "B" in timer is open.
2. Defrost termination control switch in unit is open. Fan delay control switch in unit is closed.
3. The defrost heater is off.
4. Compressor operates in accordance with the demands of the refrigeration system temperature and/or pressure controls.
5. The unit cooler fan operates continually.
6. Frost builds up slowly on the evaporator.

STEP "B" — During Defrost Operation:

1. Defrosting of evaporator is started automatically by the timer at predetermined times.
2. Timer mechanically opens switch "A" which breaks the circuit to the compressor and fan motor, thereby shutting them off, and closes switch "B", thereby permitting current to flow to the heater.
3. The heaters, recessed in slots, give up heat directly to the fins of the evaporator. This heat raises coil and refrigerant temperature to 0°C, causing the frost to melt.
4. Frost on evaporator is melted and defrost water drips into drain pan and flows down the drain.
5. When frost has completely melted from the coil, the coil starts to warm up beyond 0°C.

STEP "C" — Coil Re-cooling Operation:

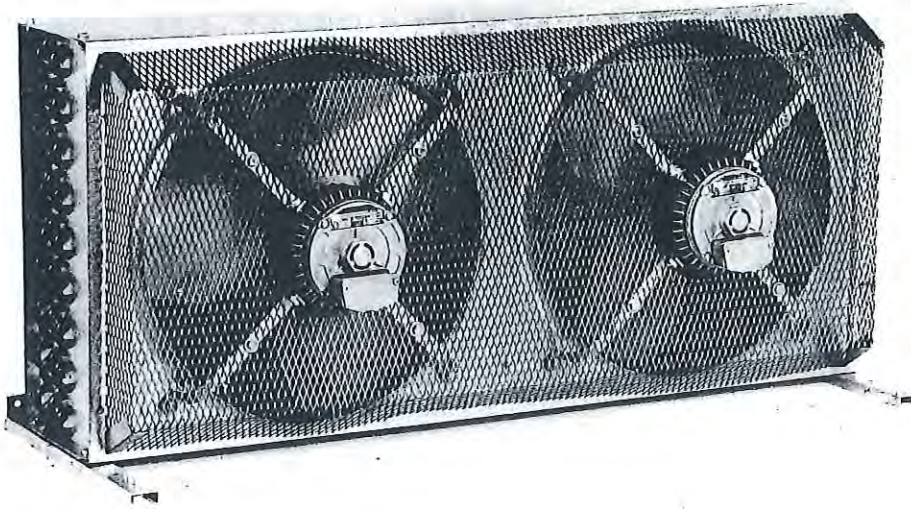
1. When the coil temperature warms up to 13°C the defrost termination control closes, which allows the current to flow to the solenoid in the timer, which then energizes and trips the timer switch back to its normal position (switch "A" closed, switch "B" open). The fan delay control also opens at 4.5°C.
2. The compressor now starts.
3. The fan motor remains off because switch in fan delay control is open. This prevents warm air from being blown into the refrigerated space.
4. Evaporator coil cools down approaching operating temperature. Super heated gas only passes to the compressor.

STEP "D" — Return to Normal Refrigeration Operation:

1. When the coil temperature reaches minus 1°C the fan control switch closes. This allows current to flow to the fan motor and the unit is now back in operation as in step "A".

USE OUR TELEX SERVICE FOR YOUR ORDER

291-f REPCO-BOHN Remote air cooled condenser



SPECIFICATIONS

CASE: Heavy gauge aluminium.
FAN: Heavy duty aluminium with plated steel boss.
MOTOR: Totally enclosed, 3 phase standard (single phase optional).
MOTOR MOUNT: Resilient rubber mounted for quieter operation.
COIL: Repco Bohn staggered 12.7 mm O.D. copper tube configuration with corrugated cross section, rippled edge fins.
PACKING: Single fan models supplied in cartons. Twin and 3 fan models supplied in crates.

IMPORTANT ORDERING REQUIREMENTS

1. State Horizontal or Vertical configuration.
2. State direction of Air Flow required -- i.e. Blowing or sucking through coil.
3. Single or Three Phase Motors.

CAPACITY AND DESIGN DATA

CAT. NO.	MODEL No.	CAPACITY		Fin Series	No. Rows	No. Fans	Fan Diam. mm	Airflow		Face Vel. m/s	Connections		Motor Amps (rated)	Weight kg
		WATTS @16.7K	BTU/HR @ 30°F					L/s	CFM		Inlet mm	Outlet mm		
291116	RC 15	4650	15875	8	1	1	508	1400	2970	4.0	12.7	12.7	0.68	19.0
291117	RC 23	6920	23630	6	2	1	508	1350	2860	3.8	12.7	12.7	0.68	20.6
291118	RC 30	9050	30895	10	2	1	508	1300	2765	3.7	12.7	12.7	0.68	22.5
291119	RC 40	11860	40480	10	3	1	508	1200	2550	3.4	22.2	15.9	0.68	26.2
291120	RC 48	14080	48085	10	4	1	508	1145	2430	3.2	22.2	15.9	0.68	29.6
291121	RC 61	18100	61780	10	2	2	508	2605	5525	3.7	28.5	19.0	1.36	40.9
291122	RC 80	23720	80965	10	3	2	508	2405	5100	3.4	28.5	19.0	1.36	47.5
291123	RC 96	28180	96190	10	4	2	508	2295	4865	3.2	31.7	22.2	1.36	54.4
291124	RC 122	35820	122260	10	3	3	508	3630	7700	3.4	31.7	25.4	2.04	57.9
291125	RC 160	47080	160695	10	5	3	508	3390	7185	3.2	31.7	25.4	2.04	90.8

COMPREHENSIVE SELECTION INFORMATION AND MANUFACTURERS LITERATURE AVAILABLE ON REQUEST

Model H heat exchanger



APPLICATION : The Repco-Bohn heat exchanger is specifically designed for commercial refrigeration and is sized to match condensing unit H.P. ratings. When engineered and installed correctly they will improve system efficiency with increased performance. The heat exchanger subcools liquid which assists expansion valve operation and ensures superheated suction gas. It further prevents liquid slugs returning in the suction line and eliminates sweating.
FEATURES : All heat exchangers use a convolute bronze tube as suction line and a heavy gauge copper body as liquid circuit. Dehydrated, sealed and pressure tested to 3100 kPa. Working pressure 206 kPa. Conditions for performance data as listed :
 1. Minus 18°C coolroom with unit operating at minus 23.5°C S.S.T. and 40.5°C saturated condensing, 9.4 to 12.2K of liquid subcooling obtained.
 2. 1.5°C coolroom with unit operating at minus 54°C S.S.T. and 46°C saturated condensing, 6 to 9K of liquid subcooling obtained.

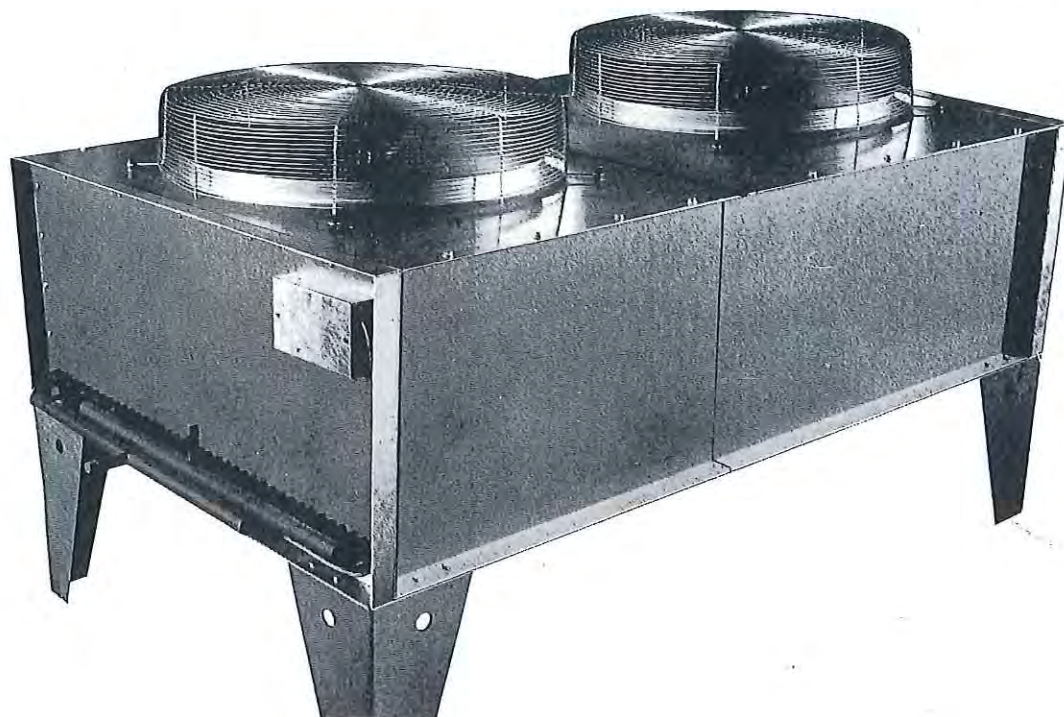
CAT. NO.	REPCO BOHN MODEL No.	NOM. COND. UNIT Watts	FOR MINUS 18°C COOLROOM				FOR 1.5°C COOLROOM			
			R12		R502		R12		R22	
			Cond. Unit Cap. Watts	Increase due to Heat-X Watts	Cond. Unit Cap. Watts	Increase due to Heat-X Watts	Cond. Unit Cap. Watts	Increase due to Heat-X Watts	Cond. Unit Cap. Watts	Increase due to Heat-X Watts
291151	H3-75	559	996	97	—	—	1876	150	—	—
291152	H3-100	746	1553	141	1612	188	2491	214	—	—
291153	H3-150	1118	2198	211	2198	281	4396	322	5862	246
291154	H3-200	1491	2784	278	2931	375	5129	428	7327	328
291155	H3-300	2237	4396	419	4396	566	7327	645	8792	492
291156	H3-500	3728	7034	700	7327	941	12603	1073	16120	824
291157	H3-750	5593	9672	979	9525	1319	19050	1500	21981	1152
291158	H3-1000	7457	13775	1398	17937	1382	24912	2140	26377	1644

SELECTION CHART TO MATCH HEAT EXCHANGER TO TL & TE UNITS	
UNIT	HEAT-X
92TL	H3-75
120TL	H3-75
155TL	H3-75
210TL	H3-75
290TE	H3-100
350TE	H3-150
520TE	H3-200
700TE	H3-300
990TE*	H3-300

* Obsolete Model

REPCO-BOHN

Remote direct drive air cooled condenser



4

Features:

Specifically engineered for outdoor installations the Repco-Bohn condensers comprise carefully selected and matched components to provide unexcelled performance and economy of operation.

All motors are inherently protected against locked rotor burn-out and high ambient conditions.

Multiple **LOW NOISE TWO SPEED** fans with low tip speed and deep-formed venturi provide one of the quietest and most efficient condensers in the industry.

Case construction is all aluminium for resistance against corrosion.

Single or multiple circuits available.

Vertical air discharge. (Horizontal discharge on request only).

Standard production — copper tube coils with rippled aluminium fins (copper fins available on request).

Zinc plated, resilient rubber-mounted supports.

Special circuits available for all types of fluid cooling.

CAT. NO.	MODEL	No. Fans	AIR FLOW				F.L. Amps 415/3/50		Total Heat Reject. (R22)@ 16.5K - kW		12.7mm ϕ Tubes High Total	Rows Deep
			L/s		CFM		Hi	Lo	Hi	Lo		
			Hi	Lo	Hi	Lo						
291235	RDD18	2	8260	6077	17500	12875	3.9	2.2	66.6	56.4	38	3
291236	RDD21	2	8213	6042	17400	12800	3.9	2.2	74.5	63.3	38	3
291237	RDD24	2	7741	5711	16400	12100	3.9	2.2	88.2	74.3	38	4
291238	RDD26	2	7717	5688	16350	12050	3.9	2.2	92.6	77.0	38	4
291239	RDD29	2	7257	5357	15375	11350	3.9	2.2	100.2	82.6	38	5
291240	RDD35	3	11647	8602	24675	18225	5.9	3.3	124.4	105.8	38	4
291241	RDD42	3	10915	8071	23125	17100	5.9	3.3	145.2	120.4	38	5
291242	RDD44	3	10880	8036	23050	17025	5.9	3.3	150.2	123.9	38	5
291243	RDD53	4	15434	11375	32700	24100	7.8	4.4	185.1	154.1	38	4
291244	RDD58	4	14514	10714	30750	22700	7.8	4.4	200.4	165.2	38	5

NAME IT AND WE'VE PROBABLY GOT IT IN OUR WIDELY ASSORTED STOCK

291-h

PARTS FOR FORCED DRAFT COOLERS REPCO-BOHN

CAT. NO.	MANUF. P/N	DESCRIPTION	TO SUIT MODEL
291176	1198001	Large Motor	Various
291178	1203001	Small Motor	TA, TL
291181	1204001	Motor Mount	TA, TL, TE, TAS
291180	1199001	" "	700 & 990 TE/ All old ADT
291179	1200001	" "	All LET, ADT
291182	1220001	Fan Guard - 5½" Dia.	TA, TL
291183	1205001	" " - 8" Dia.	TA, TL, TE, TAS
291184	1221001	" " - 10" Dia.	700 & 990 TE/ All old ADT
291185	1208001	" " - 12" Dia.	All LET, ADT
291186	1160007	Fan Blade - 5½" Dia.	TA, TL
291187	1160005	" " - 8" Dia.	TA, TL, TE
291189	1160006	" " - 10" Dia.	700 & 990 TE
291190	1160002	" " - 12" Dia.	All LET, ADT
291191	1168001	Defrost/Fan Delay T/S	Various
291192	1167001	Safety Thermostat	Various
291193	1227002	Defrost Heater	92 TL
291194	1227003	" "	120 TL
291195	1227004	" "	155 TL
291196	1227001	" "	210 TL
291197	1222001	" "	290 TE
291201	1222002	" "	350 TE
291202	1222003	" "	520 TE
291203	1224001	" "	700 TE
291204	1229001	" "	990 TE
291204A	1229002	" "	990 TE
291205	1228001	" "	LET 45
291206	1228002	" "	LET 63 & 72
291207	1228003	" "	LET 90

CAT. NO.	MANUF. P/N	DESCRIPTION	TO SUIT MODEL
291208	1228004	Defrost Heater	LET 111 & 135
291209A	1231001	" "	LET 148 & 180
291209	1231004	" "	LET 148 & 180
291210A	1231002	" "	LET 225
291210	1231005	" "	LET 225
291211	1231003	" "	LET 270
291211A	1231006	" "	LET 270
291212	1223001	Drain Pan Heater	TE Models
291213	1225001	" " "	700 TE
291214	1225002	" " "	990 TE
291215	1226001	" " "	LET 45
291216	1226005	" " "	LET 53 & 72
291217	1226002	" " "	LET 90
291218	1226003	" " "	LET 111 & 135
291219	1226004	" " "	LET 148 & 180
291220	1230001	" " "	LET 225
291220A	1230002	" " "	LET 225
291221	1230003	" " "	LET 270
291221A	1230004	" " "	LET 270
291200A	1302001	Defrost Heater Clip	All LET
291200	1232001	" " "	All TL, TE
291222		240 Volt Motor	RACC
291223		415 Volt Motor	RACC
291224		18" Fan Blade	RACC
291225		20" Fan Blade	RACC
	1160003	30" Fan Blade	RDD
	1159001	415 Volt Motor	RDD
	1158001	Fan Guard	RDD

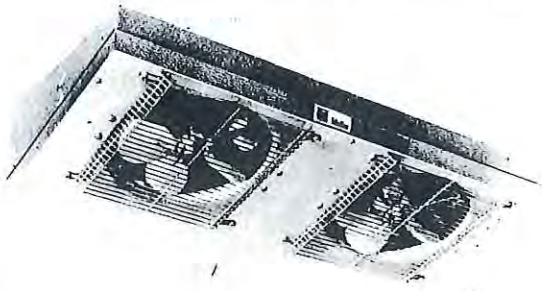
Note: When ordering fan blades, state sucking or blowing, air flow through coil.

UNIT MODEL No.	DRAIN PAN HEATER P/N	DRAIN PAN WATTS EACH	No. REQUIRED	DEFROST ELEMENT P/N	ELEMENT WATTS EACH	No. REQUIRED	NUMBER HEATER CLIPS
92 TL	NIL	NIL	—	1227002	500	1	2
120 TL	NIL	NIL	—	1227003	600	1	2
155 TL	NIL	NIL	—	1227004	700	1	2
210 TL	NIL	NIL	—	1227001	900	1	2
290 TL	1223001	135	1	1222001	1200	1	3
350 TE	1223001	135	1	1222002	1400	1	3
520 TE	1223001	135	1	1222003	1850	1	3
700 TE	1225001	550	1	1224001	2200	1	4
900 TE	1225002	750	1	1229001	1000	1	2
				1229002	2000	1	2
LET 45	1226001	250	1	1228001	250	3	6
LET 72	1226005	400	1	1228002	400	3	6
LET 90	1226002	500	1	1228003	500	3	6
LET 135	1226003	750	1	1228004	750	3	6
LET 180	1226004	1350	1	1231001	675	2	4
				1231004	675	2	4
LET 225	1230001	830	1	1231002	835	2	4
	1230002	830	1	1231005	835	2	4
LET 270	1230003	1000	1	1231003	1000	2	4
	1230004	1000	1	1231006	1000	2	4

FAST SERVICE

AS REAL SPECIALISTS IN REFRIGERATION, AIR CONDITIONING AND HEATING, WE STOCK THOUSANDS OF DIFFERENT PARTS, TOOLS AND SUPPLIES. WE BELIEVE THIS IS ONE OF THE MOST COMPLETE ASSORTMENT IN THE INDUSTRY. THIS LARGE INVENTORY, PLUS AN EXPERIENCED ORGANIZATION AND A MODERN STREAMLINED ORDER SYSTEM, ALWAYS ASSURES YOU OF FAST BUT CAREFUL SERVICE. WE DESPATCH OVER 90% OF ALL ORDERS ON THE DAY THEY ARE RECEIVED.

MULLER FORCED-DRAFT COOLERS



CABINET UNITS LOW & NORMAL TEMPERATURE

CSN AND CDN SERIES — NORMAL TEMPERATURE — FOR R12, R22 & R502

FEATURES: Extremely shallow profile conserves valuable shelf space in cabinets and walk-in refrigerators.
 Hammered Aluminium finish — Light weight.
 Easy to install — accessible tubing connections simplify installation. Knock-outs provided for tube and electrical entry from either side.
 Sharp angle on drain pan discourages accumulation of ice, dirt and debris.

CAT. NO.	MODEL	CAPACITY			Air Flow L/s	Fin Series	Fan Diam mm	Fan RPM (No)	Total Motor Input Watts	Overall Dimensions — mm		
		WATTS @ 1K T.D	WATTS @ 5K T.D	BTU/HR @ 10°F T.D						H	W	D
292126	CSN 64	64	320	1200	65	8	178	2400(1)	30	125	425	410
292127	CSN 74	74	370	1400	70	8	178	2400(1)	30	125	525	410
292128	CSN 106	106	530	2000	120	8	178	2400(2)	60	125	615	410
292129	CSN 130	130	650	2500	130	8	178	2400(2)	60	125	805	410
292130	CSN 180	180	900	3400	180	8	178	2400(3)	90	125	1020	410
292131	CDN 130	130	650	2500	120	8	254	1300(1)	50	190	555	472
292132	CDN 180	180	900	3400	160	8	254	1300(1)	50	190	765	472
292133	CDN 240	240	1200	4600	220	8	254	1300(2)	100	190	915	472
292134	CDN 320	320	1600	6200	300	8	254	1300(2)	100	190	1265	472

CSL AND CDL SERIES — LOW TEMPERATURE — AUTO DEFROST — FOR R12, R22 & R502

FEATURES: Similar to CSN and CDN but for Low Temperature applications.
 Rapid Fin defrosting — Frost is melted by Incoloy sheathed heating elements inserted into slots in the lower face of the finned coil providing direct metallic contact between the heating elements and the aluminium fins. Defrost with fan delay is safely controlled by pre-wired, built-in thermostats.

APPLICATIONS: Cabinets and Walk-in Refrigerators, Freezers.

CAT. NO.	MODEL	CAPACITY			Air Flow L/s	Fin Series	Fan Diam mm	Fan RPM (No)	Total Motor Input Watts	Total Defrost Heater Watts	Overall Dimensions — mm		
		WATTS @ 1K T.D	WATTS @ 5K T.D	BTU/HR @ 10°F T.D							H	W	D
292135	CSL 53	53	265	1000	70	6	178	2400(1)	30	350	125	425	410
292136	CSL 63	63	315	1200	75	6	178	2400(1)	30	450	125	525	410
292140	CDL 100	110	550	2100	130	6	254	1300(1)	50	995	190	555	472
292141	CDL 150	150	750	2900	170	6	254	1300(1)	50	1370	190	765	472
292142	CDL 200	200	1000	3800	240	6	254	1300(2)	100	1680	190	915	472
292143	CDL 270	270	1350	5200	310	6	254	1300(2)	100	2390	190	1265	472
292144	CDL 370	370	1850	7000	430	6	254	1300(3)	150	3120	190	1615	472

WE HAVE LARGE STOCK HOLDINGS OF PARTS FOR YOUR SUPERCEDED EQUIPMENT