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Tecumseh Semi Hermetic Condensing Units

Reciprocating

April 2014



 **Tecumseh**



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HTA EVO Condensing Units

Tecumseh Semi Hermetic Reciprocating



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.

Applications include commercial food and beverage cooling and freezing in pubs, clubs, restaurants, convenience stores, supermarkets, cafes, food processors and many more.

Installation is quick and easy as every HTA EVO unit includes all the required vessels and is fully wired to a factory fitted electrical enclosure with contactor, overload, circuit breakers and HP/LP control.

A range of flat packaged unit covers are available to suit every HTA EVO model.

The galvanized powder coated unit covers are complete with stainless steel screws and fix directly to the holes provided in the condensing unit base.

Tecumseh HTA EVO condensing units are an impressive solution for your customers' refrigeration requirements.

Standard Features

- Tecumseh Semi Hermetic compressor:
 - Electronic protection module
 - Large HTA condenser
 - Oil separator
 - Suction accumulator
 - Complete factory wiring:
 - Compressor contactor
 - Electronic overload
 - HP/LP control
 - Circuit breakers
 - Full wiring to EBM fan motors
 - Carel fan speed control
 - Liquid line assembly:
 - Filter drier *
 - Moisture indicator
 - Line valve
 - Liquid receiver
 - Copper connections
 - Crankcase heater and oil sight glass on all models
- * Demountable liquid line filter drier on 12 and 15 HP models

Optional Features

- Fully galvanized and powder coated unit cover
- Part winding start kit for 12 and 15 HP models
- Unloaded start kit
- Capacity control kit
- Head cooling fan assembly



HTA EVO Condensing Units

Selection Data



Semi Hermetic Reciprocating

Medium / Low Temperature Applications

Cat No.	Model No.	Nom HP	Compressor				Fan			
			Model	MOC Amps	LRC Amps	Volts Phase	No. Dia: mm	MOC Amps	Air Flow l/s	Volts Phase
254050	SHT4576ZHR	6	SH4576Z	11.6	63.1	415/3	2 x 500	2 x 3.3	2165	240/1
254052	SHT4591ZHR	7	SH4590Z	12.7	63.1	415/3	2 x 500	2 x 3.3	3330	240/1
254054	SHT4610ZHR	8	SH4610Z	17.6	87.3	415/3	2 x 500	2 x 3.3	3330	240/1
254056	SHT4612ZHR	9	SH4612Z	20	87.3	415/3	2 x 500	2 x 3.3	3330	240/1
254058	SHT4615ZHR	12	SH4615Z	22.4	59.1	415/3	3 x 500	3 x 3.3	5000	240/1
254060	SHT4620ZHR	15	SH4620Z	32.4	74.8	415/3	3 x 500	3 x 3.3	5000	240/1

Model No.	Nom HP	Liquid Receiver Capacity kg @ 80%	Line Size		Net Weight kg	Dimensions			Sound Power* Level dBA
			Suct inch	Liq inch		L mm	W mm	H mm	
SHT4576ZHR	6	12	1 1/8	5/8	177	1600	890	936	76
SHT4591ZHR	7	12	1 1/8	5/8	177	1600	890	936	76
SHT4610ZHR	8	12	1 3/8	5/8	182	1600	890	936	76
SHT4612ZHR	9	12	1 3/8	5/8	186	1600	890	936	76
SHT4615ZHR	12	18	1 3/8	7/8	232	1880	1100	840	77
SHT4620ZHR	15	18	1 3/8	7/8	238	1880	1100	840	78

► Subtract 17dBA to convert to sound pressure at 3m distance



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HTA EVO Condensing Units

Selection Data



R134a - Semi Hermetic Reciprocating

Medium / Low Temperature Applications

Model No.	Ambient Temperature: C	Capacity: Watts									
		Evaporating Temperature: C									
		-30	-25	-20	-15	-10	-5	0	5	10	12.5
SHT4576ZHR	32			3819	5090	6632	8469	10629	13108	15977	17514
	35			3592	4808	6296	8079	10209	12621	15359	16018
	38			3365	4543	5985	7717	9747	12081	14803	16262
	43			2996	4101	5459	7091	9010	11224	13824	15219
	46			2768	3831	5135	6726	8583	10733	13194	13611
SHT4591ZHR	32	3078	4129	5386	6876	8623	10667	13034	15788	18857	19900
	35	2867	3905	5128	6576	8269	10274	12570	15194	18161	19816
	38	2645	3683	4882	6291	7935	9854	12066	14654	17533	18304
	43	2295	3312	4465	5807	7366	9183	11275	13718	16443	17230
	46	2089	3078	4207	5507	7034	8789	10812	13118	15747	17152
SHT4610ZHR	32			5327	6970	8944	11293	14035	17192	20836	22406
	35			5063	6640	8542	10813	13505	16571	20038	20678
	38			4800	6327	8168	10366	12929	15887	19323	20589
	43			4354	5795	7528	9594	12016	14802	18071	19347
	46			4084	5465	7126	9145	11486	14180	17261	17607
SHT4612ZHR	32			6352	8265	10556	13234	16322	19897	23828	25005
	35			6040	7893	10112	12741	15731	19129	22928	24917
	38			5745	7546	9691	12201	15083	18436	22122	22949
	43			5251	6956	8977	11336	14053	17220	20706	21543
	46			4951	6590	8564	10838	13461	16434	19903	21485
SHT4615ZHR	32	4464	6138	8233	10733	13691	17128	21063	25637	30644	32258
	35	4127	5747	7747	10157	13019	16421	20259	24611	29486	32172
	38	3779	5359	7297	9634	12407	15647	19365	23706	28475	29712
	43	3236	4723	6542	8749	11363	14437	17969	22126	26695	28008
	46	2938	4345	6080	8197	10766	13745	17180	21106	25537	27936
SHT4620ZHR	32	5979	8113	10619	13590	17072	21126	25886	31200	37169	37802
	35	5550	7633	10085	12972	16405	20344	24872	30006	35959	39098
	38	5124	7182	9585	12396	15679	19486	23958	28945	34549	37817
	43	4412	6415	8731	11416	14528	18125	22361	27086	32403	32624
	46	3968	5941	8197	10849	13862	17343	21335	26035	31193	32573

Requires head cooling fan to cool the compressor

► Capacity Rating Basis: 10K Superheat and 3K Sub-Cooling



HTA EVO Condensing Units

Selection Data



R404A - Semi Hermetic Reciprocating

Medium / Low Temperature Applications

Model No.	Ambient Temperature: C	Capacity: Watts										
		Evaporating Temperature: C										
		-40	-35	-30	-25	-20	-15	-10	-5	0	5	7.5
SHT4576ZHR	32			3979	5407	7026	8869	10932	13219	15898	18676	20136
	35			3673	5011	6540	8347	10318	12504	14908	17530	19186
	38			3369	4648	6101	7753	9610	11794	14102	16623	17956
	43			2855	4023	5345	6845	8527	10394	12641	14960	16193
	46			2537	3600	4865	6333	7920	9692	11651		
SHT4591ZHR	32	2648	3683	4966	6462	8217	10238	12538	15256	18138	21275	
	35	2417	3419	4618	6030	7741	9662	11853	14302	17235	20258	
	38	2171	3154	4295	5640	7207	9008	11173	13510	16095	18926	
	43		2600	3744	4967	6379	7999	9843	12080	14434	17020	
	46			3200	4500	5907	7429	9166	11114			
SHT4610ZHR	32			5898	7672	9732	12101	14786	17964	21344	25035	
	35			5496	7180	9120	11439	14004	16884	20072	23871	
	38			5123	6725	8570	10695	13104	15974	19031	22383	
	43			4487	5940	7611	9531	11715	14338	17135	20221	
	46			4085	5442	7057	8864	10923	13246	15845		
SHT4612ZHR	32			6832	8793	11082	13701	16823	20177	23858	27853	
	35			6358	8217	10457	12955	15779	18929	22702	26552	
	38			5921	7699	9755	12097	14900	17910	21220	24812	
	43			5173	6796	8662	10780	13325	16053	19058	22351	
	46			4711	6273	8034	10027	12275	14793			
SHT4615ZHR	32			8044	10541	13459	16819	20621	25161	29942	35166	
	35			7420	9767	12627	15845	19491	23583	28505	33575	
	38			6858	9085	11697	14717	18367	22307	26675	31481	
	43			5909	7915	10277	13014	16147	19992	24038	28523	
	46			5327	6900	9480	12072	15049	18426			
SHT4620ZHR	32	5689	8293	11103	14230	17730	21839	26266	31166	37045	42986	46121
	35	5084	7585	10311	13409	16768	20525	24694	29666	34813	40376	44163
	38	4479	6939	9588	12479	15670	19401	23383	27776	33129	38499	41343
	43		5700	8332	11025	13960	17393	21014	25005			
	46			7617	10200	12986	16043	19406				

Requires head cooling fan to cool the compressor

► Capacity Rating Basis: 10K Superheat and 3K Sub-Cooling



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Tecumseh Semi Hermetic

Compressors

Compressor Data

Cat No	Model Number	No of Cyl	Volts Phase	Nom HP	Displ. m3/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			
253050	SH4576Z	4	415 3	6	21.18	1 1/8	3/4	1.6	11.6	63.1	79	449	315	334	312 x 246	70	40 x 40
253052	SH4591Z	4		7	24.69		7/8		12.7								
253054	SH4610Z	4		8	28.02	1 3/8	1 1/8		17.6	87.3				336			
253056	SH4612Z	4		9	32.66				20								
253058	SH4615Z	4		12	41.32			2.9	22.4	59.1	120	550	405	416	292 x 266		50 x 50
253060	SH4620Z	4		15	51.50	1 5/8	32.4		74.8	126							



Tecumseh Semi Hermetic

Accessories and Spare Parts

Accessories

Cat No.	Part No.	Description	Suits Model
272204	7590200	Crankcase Heater	All SH Models
272231	7590100	Capacity Control Kit	SH4576Z, SH4591Z, SH4610Z, SH4612Z
272232	7590101	Capacity Control Kit	SH4615Z, SH4620Z
272235	7590102	Unloaded Start Kit	SH4576Z, SH4591Z, SH4610Z, SH4612Z
272236	7590103	Unloaded Start Kit	SH4615Z, SH4620Z
310281	7590206	Head Cooling Fan Assembly	SH4576Z, SH4591Z, SH4610Z, SH4612Z
310282	7590207	Head Cooling Fan Assembly	SH4615Z, SH4620Z
262136	1000012	Weather Shield Unit Cover	SHT4576Z, SHT4591Z, SHT4610Z, SHT4612Z
262138	1000013	Weather Shield Unit Cover	SHT4615Z, SHT4620Z

Spare Parts

Cat No.	Part No.	Description	Suits Model
272191	7380740	Gasket Kit	SH4576Z, SH4610Z
272192	7380741	Gasket Kit	SH4591Z, SH4612Z
272193	7380742	Gasket Kit	SH4615Z
272194	7380743	Gasket Kit	SH4620Z
272211	7309100	Valve Plate Kit	SH4576Z, SH4610Z
272212	7309101	Valve Plate Kit	SH4591Z
272213	7309102	Valve Plate Kit	SH4612Z
272214	7309103	Valve Plate Kit	SH4615Z
272215	7309104	Valve Plate Kit	SH4620Z
272221	7380710	Oil Sight Glass Kit	All SH Models
272222	7590204	Kriwan Motor Protection Module	All SH Models
594081	7309120	Compressor Mount Rubber Kit of 4	SH4576Z, SH4591Z, SH4610Z, SH4612Z
594082	7309121	Compressor Mount Rubber Kit of 4	SH4615Z, SH4620Z
272251	7590202	Electrical Connection Plate Kit	SH4576Z, SH4591Z, SH4610Z, SH4612Z
272252	7590203	Electrical Connection Plate Kit	SH4615Z, SH4620Z



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