

FSW

PRODUCT GUIDE



I SECTION

I SECTION



Compressors



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Tecumseh Compressors

Founded in 1934, Tecumseh Products Company is a leading global manufacturer offering reciprocating, rotary and scroll compressors with hermetic and semi-hermetic technology.

1PH LST LBP R134a/R513A*

CODE	MODEL	CONN.	APPROX HP	DISP. C.C.
I600	THG1335YKS	Tube	1/9	3.58
I601	THG1340YKS	Tube	1/8	4.23
I602	THG1352YKS	Tube	1/7	5.60
I603	THG1365YKS	Tube	1/6	6.10
I403	AE1390Y	Tube	1/3	8.00

1PH HST LBP R134a/R513A*

CODE	MODEL	CONN.	APPROX HP	DISP. C.C.
I4000	AE2410Y	Tube	1/4	9.40
I4001	AE2413Y	Tube	1/3	12.00
I4002	AE2415Y	Tube	3/8	12.50

1PH HST HBP R134a/R513A*

CODE	MODEL	CONN.	APPROX HP	DISP. C.C.
IA446	THB4410Y	Tube	1/10	2.72
IA447	THB4413Y	Tube	1/8	3.60
IA448	THB4415Y	Tube	1/6	4.23
IA449	THB4419Y	Tube	1/5	5.00
IA450	THB4422Y	Tube	1/5	5.90
I450	AE4425Y	Tube	1/5	6.69
I451	AE4430Y	Tube	1/4	8.02
I452	AE4440Y	Tube	1/3	10.33
I448	AE4450Y	Tube	3/8	13.24
I457	AE4456Y	Tube	3/8	14.51
I4010	AE4460Y	Tube	1/2	15.09
I4012	CAJ4452Y	Tube	3/8	15.20
I453	CAJ4452Y	Valve	3/8	15.20
IA409	CAJ4461Y	Tube	1/2	18.30
I454	CAJ4461Y	Valve	1/2	18.30
IA454	CAJ4476Y	Tube	5/8	22.80
I449	CAJ4476Y	Valve	5/8	22.80
IA465	CAJ4492Y	Tube	3/4	25.95
I455	CAJ4492Y	Valve	3/4	25.90
IA404	CAJ4511Y	Tube	1	32.70
I456	CAJ4511Y	Valve	1	32.70
IA455	CAJ4513Y	Tube	1	34.45
IA4015	CAJ4513Y	Valve	1	34.45
IA408	FH4518Y	Tube	1-1/2	53.20
I458	FH4518Y	Valve	1-1/2	53.20
I461	FH4525Y	Tube	2	74.25
I460	FH4525Y	Valve	2	74.75

3PH - HBP R134a/R513A*

CODE	MODEL	CONN.	APPROX HP	DISP. C.C.
IA410	TAJ4511Y	Tube	1	32.70
I463	TAJ4511Y	Valve	1	32.70
I464	TFH4518Y	Valve	1-1/2	53.20
I465	TFH4525Y	Valve	2	74.25
I466	TAG4528Y	Valve	2-1/2	90.20
I467	TAG4534Y	Valve	2-3/4	100.70
I468	TAG4537Y	Valve	3-1/4	112.50
I469	TAG4543Y	Valve	3-1/2	124.40
I472	TAG4547Y	Valve	4.00	135.00



*R513A/R452A/R449A selections, refer to Tecumseh Guidelines



Tecumseh Compressors

1PH HST LBP R404A/R452A*

CODE	MODEL	CONN.	APPROX HP	DISP. C.C.
I4018	AE2410Z	Tube	1/4	5.02
I415	AE2415Z	Tube	3/8	7.33
I407	AE2420Z	Tube	1/2	9.35
I417	AE2425Z	Tube	5/8	12.01
IA400	CAJ2428Z	Tube	3/4	15.20
I408	CAJ2428Z	Valve	3/4	15.20
IA401	CAJ2432Z	Tube	3/4	18.30
I409	CAJ2432Z	Valve	3/4	18.30
IA414	CAJ2440Z	Tube	1	21.0
I4022	CAJ2440Z	Valve	1	21.0
IA402	CAJ2446Z	Tube	1-1/4	26.20
I410	CAJ2446Z	Valve	1-1/4	26.20
IA403	CAJ2464Z	Tube	1-1/2	34.50
I411	CAJ2464Z	Valve	1-1/2	34.50
I412	FH2480Z	Valve	2	53.20
I413	FH2511Z	Valve	2-1/2	74.20



3PH - LBP R404A/R452A*

CODE	MODEL	CONN.	APPROX HP	DISP. C.C.
I414	TAJ2446Z	Valve	1-1/4	26.20
IA407	TAJ2464Z	Tube	1-1/2	34.50
I416	TAJ2464Z	Valve	1-1/2	34.50
I418	TFH2480Z	Valve	2	53.20
I462	TFH2480Z	Tube	2	53.20
IA406	TFH2511Z	Tube	2-1/2	74.20
I420	TFH2511Z	Valve	2-1/2	74.20
I4025	TAG2513Z	Tube	3-1/2	100.70
I421	TAG2516Z	Tube	4	112.50
I422	TAG2522Z	Tube	5-1/2	135.00
I4028	TAG2525Z	Tube	6	145.00



1PH HST HBP R404A/R452A/R449A*

CODE	MODEL	CONN.	APPROX HP	DISP. C.C.
I4032	AE4425Z	Tube	1/5	4.24
I419	AE4430Z	Tube	1/4	5.16
I423	AE4440Z	Tube	3/8	6.69
I425	AE4450Z	Tube	3/8	8.85
I426	AE4460Z	Tube	1/2	10.33
I427	AE4470Z	Tube	5/8	12.01
IA411	CAJ9480Z	Tube	5/8	15.20
I428	CAJ9480Z	Valve	5/8	15.20
IA468	CAJ9510Z	Tube	3/4	18.30
I429	CAJ9510Z	Valve	3/4	18.30
IA470	CAJ9513Z	Tube	1	24.20
I430	CAJ9513Z	Valve	1	24.20
IA405	CAJ4517Z	Tube	1-1/4	25.95
I431	CAJ4517Z	Valve	1-1/4	25.95
I447	CAJ4519Z	Tube	1-1/2	34.45
I432	CAJ4519Z	Valve	1-1/2	34.45
I4038	FH4522Z	Valve	1-5/8	39.90
I433	FH4524Z	Valve	2	43.50
I434	FH4531Z	Valve	2-1/2	56.60
I438	FH4540Z	Valve	3-1/2	74.20



3PH HBP R404A Compressors
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*R513A/R452A/R449A selections, refer to Tecumseh Guidelines



Tecumseh Compressors



3PH - HBP R404A/R452A/R449A*

CODE	MODEL	CONN.	APPROX HP	DISP. C.C.
I435	TAJ9513Z	Valve	1	24.20
I436	TAJ4517Z	Valve	1-1/4	25.95
I437	TAJ4519Z	Valve	1-1/2	34.45
I4042	TFH4522Z	Valve	1-5/8	39.90
I439	TFH4524Z	Valve	2	43.50
I440	TFH4531Z	Valve	2-1/2	56.60
I441	TFH4540Z	Valve	3	74.20
I442	TAG4546Z	Valve	4	90.20
I443	TAG4553Z	Valve	4-1/2	100.70
I444	TAG4561Z	Valve	5	112.50
I445	TAG4568Z	Tube	6	124.40
I446	TAG4573Z	Tube	6-1/2	135.00
I445	TAG4581Z	Tube	7	145.00

*R513A/R452A/R449A selections, refer to Tecumseh Guidelines



Tecumseh Air Conditioning Compressors



1PH - CSR Air Conditioning R407C

CODE	MODEL	CONN.	APPROX HP	DISP. C.C.
IL494	AE5465C	Tube	1/2	10.33
IL496	AJ5510C	Tube	3/4	18.60
IL497	AJ5512C	Tube	7/8	21.75
IL498	AJ5513C	Tube	1	24.20
IL499	AJ5515C	Tube	1-1/4	25.95
IL500	AJ5518C	Tube	1-1/2	32.70
IL501	AJ5519C	Tube	1-1/2	34.45
IL502	FH5522C	Tube	1-3/4	39.95
IL503	FH5524C	Tube	2	43.50
IL504	FH5527C	Tube	2-1/4	49.10
IL505	FH5531C	Tube	2-1/2	56.65
IL506	FH5540C	Tube	3	74.25



3PH - Air Conditioning R407C

CODE	MODEL	CONN.	APPROX HP	DISP. C.C.
IL509	TAJ 5515C	Tube	1-1/4	25.95
IL510	TAJ 5519C	Tube	1-1/2	34.45
IL511	TFH 5522C	Tube	1-3/4	39.95
IL512	TFH 5524C	Tube	2	43.50
IL513	TFH 5527C	Tube	2-1/4	49.10
IL514	TFH 5531C	Tube	2-1/2	56.65
IL515	TFH 5540C	Tube	3	74.25
IL516	TAG 5546C	Tube	4	90.20
IL517	TAG 5553C	Tube	4-1/2	100.70
IL518	TAG 5561C	Tube	5	112.50
IL519	TAG 5568C	Tube	6	124.40
IL520	TAG 5573C	Tube	6-1/2	134.80



CSR Models are High Start Torque and include Relay, Start Capacitor and Run Capacitor.



Tecumseh Rotary Compressors

The Tecumseh range of Rotary Compressors can be used as replacements in many types of air conditioning systems.



PSC - Air Conditioning R407C

CODE	MODEL	DISP. C.C.*
IL470	RK 5480C	11.40
IL471	RK 5490C	12.90
IL472	RK 5510C	14.60
IL473	RK 5512C	16.30
IL474	RK 5513C	18.10
IL475	RK 5515C	21.40
IL476	RK 5518C	24.40

*When selecting an equivalent you must not compare the displacement of a rotary compressor with that of a reciprocating compressor.



Tecumseh R290 Compressors

Next Generation AE2/AJ2 High Efficiency Compressor from Tecumseh now available for R290

1PH - LBP R290

CODE	MODEL	DISP. C.C.
I5000	AE2410U	5.48
I5005	AE2415U	8.85
I5008	AE2420U	10.96
I5012	CAJ2446U	26.20
I5015	CAJ2464U	34.50

1PH - HBP R290

CODE	MODEL	DISP. C.C.
I5020	AE4425U	5.02
I5022	AE4430U	6.12
I5024	AE4440U	8.02
I5028	AE4450U	10.33
I5030	AE4460U	12.01

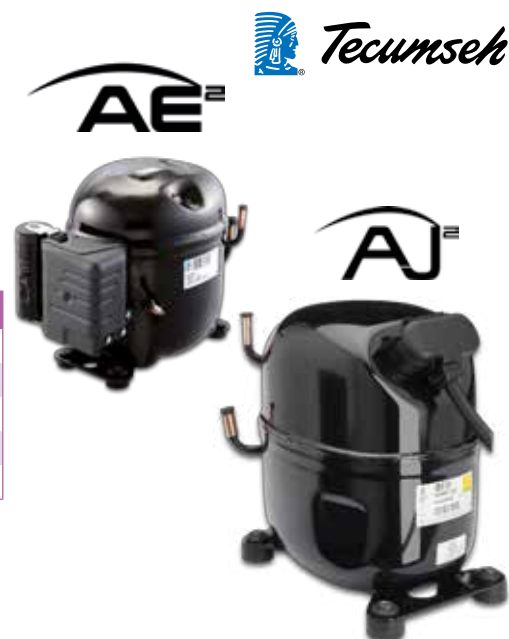


Tecumseh R1234yf Compressors

Next Generation AE2/AJ2 High Efficiency Compressor from Tecumseh now available for R1234yf

1PH - HBP R1234yf

CODE	MODEL	DISP. C.C.
I5040	AE4430H	8.02
I5042	AE4440H	10.33
I5048	CAJ4492N	25.90
I5052	CAJ4511N	32.70
I5054	CAJ4513N	34.45



Tecumseh X Range Multi Refrigerant Compressors

X Range is a multi refrigerant compressor range approved for use with R404A, R452A, R134a and R513A on HBP applications and R404A, R452A for LBP applications.



1PH - LBP X Range Multi Refrigerant R404A/R452A

CODE	MODEL	DISP. C.C.
I6010	CAJ2428X	15.20
I6012	CAJ2432X	18.30
I6015	CAJ2440X	21.00
I6020	CAJ2446X	26.20
I6023	CAJ2464X	34.50
I6028	FH2480X	53.20
I6032	FH2511X	74.20



3PH - LBP X Range Multi Refrigerant R404A/R452A

CODE	MODEL	DISP. C.C.
I6035	TAJ2440X	21.00
I6038	TAJ2446X	26.20
I6040	TAJ2464X	34.50
I6043	TFH2480X	53.20
I6047	TFH2511X	74.20
I6050	TAG2513X	100.70
I6053	TAG2516X	112.50
I6056	TAG2522X	135.00
I6058	TAG2525X	145.00



1PH - HBP X Range Multi Refrigerant R404A/R452A/R134a/R513A

CODE	MODEL	DISP. C.C.
I6062	CAJ9480X	15.20
I6064	CAJ9510X	18.30
I6067	CAJ9513X	24.20
I6069	CAJ4517X	25.95
I6072	CAJ4519X	34.45
I6075	FH4522X	39.90
I6078	FH4524X	43.50
I6082	FH4531X	56.60
I6085	FH4540X	74.20

3PH - HBP X Range Multi Refrigerant R404A/R452A/R134a/R513A

CODE	MODEL	DISP. C.C.
I6090	TAJ9480X	15.20
I6092	TAJ9510X	18.30
I6095	TAJ9513X	24.20
I6097	TAJ4517X	25.95
I7000	TAJ4519X	34.45
I7002	TFH4522X	39.90
I7005	TFH4524X	43.50
I7008	TFH4531X	56.60
I7012	TFH4540X	74.20
I7015	TAG4546X	90.20
I7017	TAG4553X	100.70
I7020	TAG4561X	112.50
I7023	TAG4568X	124.40
I7026	TAG4573X	135.00
I7028	TAG4581X	145.00



Tecumseh Compressors Cross Reference Guide

X Range, R134a and R404A equivalents

MULTI REFRIGERANT RANGE	APPLICATION	VOLTAGE	R404A EQUIVALENT	R134A EQUIVALENT
C/TAJ9480X	HBP	FZ / TZ	C/TAJ9480Z	C/TAJ4452Y
C/TAJ9510X	HBP	FZ / TZ	C/TAJ9510Z	C/TAJ4461Y
C/TAJ9513X	HBP	FZ / TZ	C/TAJ9513Z	C/TAJ4484Y
C/TAJ4517X	HBP	FZ / TZ	C/TAJ4517Z	C/TAJ4492Y
C/TAJ4519X	HBP	FZ / TZ	C/TAJ4519Z	C/TAJ4513Y
FH/TFH4522X	HBP	FZ / TZ	FH/TFH4522Z	FH/TFH4514Y
FH/TFH4524X	HBP	FZ / TZ	FH/TFH4524Z	FH/TFH4516Y
FH/TFH4531X	HBP	FZ / TZ	FH/TFH4531Z	FH/TFH4519Y
FH/TFH4540X	HBP	FZ / TZ	FH/TFH4540Z	FH/TFH4525Y
TAG4546X	HBP	TZ	TAG4546Z	TAG4528Y
TAG4553X	HBP	TZ	TAG4553Z	TAG4534Y
TAG4561X	HBP	TZ	TAG4561Z	TAG4537Y
TAG4568X	HBP	TZ	TAG4568Z	TAG4543Y
TAG4573X	HBP	TZ	TAG4573Z	TAG4547Y
TAG4581X	HBP	TZ	TAG4581Z	TAG4549Y
CAJ2428X	LBP	FZ	CAJ2428Z	
CAJ2432X	LBP	FZ	CAJ2432Z	
C/TAJ2440X	LBP	FZ / TZ	C/TAJ2440Z	
C/TAJ2446X	LBP	FZ / TZ	C/TAJ2446Z	
C/TAJ2464X	LBP	FZ / TZ	C/TAJ2464Z	
FH/TFH2480X	LBP	FZ / TZ	FH/TFH2480Z	
FH/TFH2511X	LBP	FZ / TZ	FH/TFH2511Z	
TAG2513X	LBP	TZ	TAG2513Z	
TAG2516X	LBP	TZ	TAG2516Z	
TAG2522X	LBP	TZ	TAG2522Z	
TAG2525X	LBP	TZ	TAG2525Z	

* FZ = 220-240V-50Hz TZ = 400V-3PH-50Hz



Tecumseh

X MULTIREFRIGERANT RANGE

AJ FH AG Compressors

One range designed for use with several refrigerants



Nearly two years of testing has been devoted to the new refrigerants, insuring that product reliability and performance are in strict accordance with Tecumseh standards. This range designed for use with several refrigerants offering simplicity to installers.

Cooling for a Better Tomorrow™



Tecumseh/L'Unite Hermetique Compressor Spares

Electric Kits for Old AE, CAE and AEZ Range
(excluding electrical box)

CODE	PART NO	TO SUIT
IS400	8655007	AE 1417Z
IS401	8655025	CAE 2420Z
IS402	8655022	AEZ4425Y
IS403	8655023	AEZ4430Y
IS404	8655028	CAE4440Y
IS405	8655073	CAE448Y
IS406	8655050	AE 5465/5470E
IS408	8655051	AJ 5510F
IS409	8655053	AJ 5512E
IS410	8655054	AJ 5513E/C
IS411	8655055	AJ 5515E
IS412	8655056	AJ 5518E
IS413	8655057	AJ 5519E
IS414	8655058	FH 5522F
IS415	8655154	FH 5524F
IS416	8655060	FH 5527C/5528F
IS417	8655079	FH 5532F

Electric Kits for Old AE, CAE, AEZ & AJ Range
(Including electrical box)

CODE	PART NO	TO SUIT
IS420	8657114	CAE 2417Z
IS421	8657029	CAJ 2428Z
IS422	8657006	CAJ 2432Z
IS423	8657007	CAJ 2446Z
IS424	8657180	CAJ 2464Z
IS427	8657160	AEZ9440Z
IS428	8657112	CAE 9450Z
IS429	8657220	CAE 9460Z
IS430	8657085	CAE 9470Z
IS431	8657079	CAJ 9480Z
IS432	8657082	CAJ 9510Z
IS433	8657086	CAJ 9513Z
IS434	8657084	CAJ 4517Z
IS435	8657094	CAJ 4519Z
IS438	8657030	CAJ 4452Y
IS439	8657025	CAJ 4461Y
IS440	8657096	CAJ 4476Y
IS441	8657201	CAJ 4492Y
IS442	8657002	CAJ 4511Y

Electric Kits for New AE² Range
(excluding electrical box)

CODE	PART NO	SUITS MODELS*
IS470	8655331	AE4425Y FZ
IS472	8655321	AE4430Y FZ
IS474	8655322	AE4440Y FZ
IS476	8655327	AE4450Y FZ
IS478	8655326	AE4456Y FZ
IS480	8655332	AE4460Y FZ
IS485	8655325	AE4425Z FZ
IS487	8655328	AE4430Z FZ
IS489	8655324	AE4440Z FZ
IS490	8655333	AE4450Z FZ
IS492	8655323	AE4460Z FZ

Electric Kits for New AE² Range (Continued)
(excluding electrical box)

CODE	PART NO	SUITS MODELS*
IS500	8655341	AE4470Z FZ
IS502	8655337	AE2410Z FZ
IS504	8655329	AE2415Z FZ
IS506	8655339	AE2420Z FZ
IS508	8655342	AE2425Z FZ
IS512	8655357	AE2410U FZ
IS514	8655330	AE2415U FZ
IS516	8655345	AE2420U FZ
IS518	8655343	AE4425U FZ
IS520	8655334	AE4430U FZ
IS523	8655335	AE4440U FZ
IS525	8655336	AE4450U FZ
IS528	8655347	AE4460U FZ

*For New AE2 Compressors made or assembled in France

TE-Connect & Junior Electrical Box for NEW AJ² Range

CODE	PART NO	SUITS MODELS
IS535	8657278	CAJ2428Z
IS537	8657272	CAJ2432Z
IS540	8657279	CAJ2440Z
IS542	8657266	CAJ2446Z
IS544	8657267	CAJ2464Z
IS548	8657264	CAJ4517Z
IS550	8657265	CAJ4519Z
IS553	8657277	CAJ9480Z
IS556	8657276	CAJ9510Z
IS558	8657274	CAJ9513Z
IS562	8657286	CAJ4452Y
IS564	8657273	CAJ4461Y
IS568	8657287	CAJ4476Y
IS570	8657262	CAJ4492Y
IS573	8657263	CAJ4511Y
IS575	8657275	CAJ4513Y

Electric Kits for FH Range
(excluding electrical box)

CODE	PART NO	SUITS MODELS
IS580	8655234	FH4522Z
IS582	8655235	FH4524Z
IS584	8655151	FH4531Z
IS586	8655232	FH4540Z
IS590	8655230	FH2480Z
IS593	8655231	FH2511Z
IS596	8655233	FH4518Y
IS598	8655236	FH4525Y

Electric Kits for FH Range.
(including electrical box)

CODE	PART NO	SUITS MODELS
IS425	8657097	FH 2480Z
IS426	8657153	FH 2511Z
IS445	8657119	FH4522Z
IS436	8657117	FH 4524Z
IS437	8657093	FH 4531Z
IS443	8657100	FH4518Y
IS444	8657103	FH4525Y/4524Z



Suction Rotalock Valves

CODE	PART NO	SIZE	ROTOLOCK VALVES TO SUIT L'UNITE MODELS
IS450	8683049	(1"-14) 1/2"	CAJ2428Z, CAJ2432Z, CAJ2446Z, CAJ9480Z, CAJ4452Y, CAJ4461Y, CAJ4476Y, CAJ4492Y.
IS451	8683059	(1"-14) 5/8"	CAJ2464Z, CAJ9510Z, CAJ9513Z, CAJ4517Z, CAJ4519Z, TAJ9513Z, TAJ4517Z, TAJ4519Z, CAJ4511Y, TAJ4511Y.
IS452	660062	(1-1/4"-12) 5/8"	FH2480Z, FH2511Z, TFH2480Z, TFH2511Z, FH4524Z, TFH4524Z, FH4518Y, FH4525Y, TFH4518Y, TFH4525Y.
IS454	660063	(1-1/4"-12) 7/8"	FH4531Z, FH4540Z, TFH4531Z, TFH4540Z, TAG2516Z, TAG4546Z, TAG4553Z.
IS455	660064	(1-1/4"-12) 1-1/8"	TAG2522Z, TAG4561Z, TAG4568Z, TAG4573Z.

Discharge Rotalock Valves

CODE	PART NO	SIZE	ROTOLOCK VALVES TO SUIT L'UNITE MODELS
IS450	8683049	(1"-14) 1/2"	FH2480Z, FH2511Z, TFH2480Z, TFH2511Z, FH4524Z, TFH4524Z, FH4518Y, FH4525Y, TFH4518Y, TFH4525Y, FH4531Z, FH4540Z, TFH4531Z, TFH4540Z,
IS452	660062	(1-1/4"-12) 5/8"	TAG2513Z, TAG2516Z, TAG4546Z, TAG4553Z, TAG2522Z, TAG4561Z, TAG4568Z, TAG4573Z.

Rotalock Valve P.T.F.E Gaskets

CODE	PART NO	SIZE	DESCRIPTION
IS458	8361007	1" - 14	White PTFE Rotalock Valve Gasket
IS459	8361006	1-1/4" - 12	White PTFE Rotalock Valve Gasket
IS460	8361023	1-3/4" - 12	White PTFE Rotalock Valve Gasket



Cubigel Compressors

Cubigel Compressors® are manufactured in Barcelona by Huayi Compressor Barcelona, S.L. Part of Huayi Compressor Co. Ltd, and specializes in designing, manufacturing and selling hermetic compressors and condensing units for the light commercial refrigeration market.

cubigel
compressors

Refrigerant R134a LBP - LST

CODE	MODEL	CONN.	APPROX HP	DISP. C.C.
I320	GL45AA	Tube	1/5	4.50
I341	GL80AA	Tube	1/5	8.10
I342	GL90AA	Tube	1/4	9.10



Refrigerant R134a LBP - HST

CODE	MODEL	CONN.	APPROX HP	DISP. C.C.
I301	GLM12LA	Tube	3/8	12.00
I327	GP14FB	Tube	1/2	14.00
I335	GP16FB	Tube	1/2	16.00

Refrigerant R134a HBP - LST

CODE	MODEL	CONN.	APPROX HP	DISP. C.C.
I316	GL60PB	Tube	1/5	5.70
I317	GL80PB	Tube	1/4	7.60
I318	GL90PB	Tube	1/4	8.80
I319	GP12PB	Tube	3/8	12.00

Refrigerant R134a HBP - HST

CODE	MODEL	CONN.	APPROX HP	DISP. C.C.
I314	GD40MB-D	Tube	1/8	4.10
I315	GL45TB	Tube	1/6	4.50
I331	GL60TB	Tube	1/5	5.68
I325	GL80TB	Tube	1/4	7.60
I326	GL90TB	Tube	1/4	8.80
I328	GP12TB	Tube	3/8	12.00
I329	GP14TB	Tube	3/8	14.00
I611	GP16TB	Tube	1/2	16.00
I330	GX18TB	Tube	5/8	18.10
I333	GX21TB	Tube	5/8	21.00
I340	GX23TB	Tube	2/3	23.00
I348	GS26TB-T	Tube	3/4	26.00
I334	GS26TB-V	Valve	3/4	26.00
I336	GS30TB-V	Valve	7/8	30.00
I338	GS34TB-V	Valve	1	34.00
I339	GS34TB-T	Tube	1	34.00



cubigel
compressors



Cubigel Compressors

Refrigerant R404A LBP - HST

CODE	MODEL	CONN.	APPROX HP	DISP. C.C.
I345	ML45FB	Tube	1/6	4.50
I343	ML80FB	Tube	1/4	8.10
I344	ML90FB	Tube	1/3	8.80
I346	MLY12LAA	Tube	3/8	12.00
I347	MP14FB	Tube	1/2	14.00
I619	MPT14LA	Tube	1/2	14.00
I349	MX18FBa	Tube	5/8	18.00
I351	MX21FBa	Tube	2/3	21.00
I620	MX23FB	Tube	2/3	23.00
I353	MS26FB-V	Valve	3/4	26.00
I617	MS26FB-T	Tube	3/4	26.00
I618	MS34FB-T	Tube	1	34.00
I355	MS34FB-V	Valve	1	34.00

cubigel
compressors



Refrigerant R404A H/MBP - HST

CODE	MODEL	CONN	APPROX HP	DISP. C.C.
I359	ML45TB	Tube	1/5	4.50
I360	ML60TB	Tube	1/4	5.70
I361	ML80TB	Tube	3/8	7.60
I362	ML90TB	Tube	3/8	8.80
I363	MPT12RA	Tube	1/2	12.00
I364	MPT14RA	Tube	5/8	14.00
I357	MX18TBa	Tube	3/4	18.00
I337	MX21TBa	Tube	7/8	21.00
I616	MS22TB-V	Valve	1	21.80
I367	MS26TB-V	Valve	1	26.00
I365	MS26TB-T	Tube	1	26.00
I366	MS34TB-T	Tube	1-5/8	34.00
I358	MS34TB-V	Valve	1-5/8	34.00

Hitachi Horizontal Scroll Compressors

Compact & lightweight horizontal scroll compressor designed for the refrigeration sector offering low noise and vibration and reliability that you come to expect from Hitachi.

HITACHI

Refrigerant R404A LBP/MBP/HBP - LST (1 Phase)

CODE	MODEL	CONNECTIONS	APPROX HP
I147	ZS7516S1	Brazed Stub	1
I140	ZS1120S1	Brazed Stub	1-1/2



Refrigerant R404A LBP/MBP/HBP - HST (1 Phase)

CODE	MODEL	CONNECTIONS	APPROX HP
I130	DS1836S1	Brazed Stub	2-1/2



Refrigerant R404A LBP/MBP (3 Phase)

CODE	MODEL	CONNECTIONS	APPROX HP
I141	FL200DL	Rotolock Valves	2
I142	FL300DL	Rotolock Valves	3
I143	FL400DL	Rotolock Valves	4
I144	FL500DL	Rotolock Valves	5



For more information visit www.fsw.uk.com

Danfoss Compressors

Danfoss focuses on providing energy efficient, sustainable refrigeration compressors for a varied range of commercial applications such as cold rooms, display windows, ice making machines, glass door merchandisers, process cooling etc.

LST - LBP R134a

CODE	MODEL	APPROX HP	DISP. C.C.
I223	TL-5FK	1/6	5.08
I224	NL-6FK	1/5	6.13
I225	NL-7FK	1/5	7.27
I226	NL-9FK	1/4	8.35
I227	NL-11FK	1/4	11.15



HST - LBP R134a

CODE	MODEL	APPROX HP	DISP. C.C.
I228	TL-5FX	1/6	5.08
I229	NL-6FX	1/5	6.13
I230	NL-7FX	1/6	7.27
I231	NL-9FX	1/5	8.35
I232	NL-11FX	1/4	11.15
I233	SC-15FX	1/3	15.28
I234	SC-18FX	2/5	17.69
I235	SC-21FX	1/2	20.95



HST - MBP R134a

CODE	MODEL	APPROX HP	DISP. C.C.
I267	GS-26MFX	3/4	26.00
I268	GS-34MFX	1	34.00

HST - HBP R134a

CODE	MODEL	APPROX HP	DISP. C.C.
I254	GS-26GHX	3/4	26.00

HST - L/M/HBP R134a

CODE	MODEL	APPROX HP	DISP. C.C.
I238	TL-5GX	1/8	5.08
I239	FR-7.5GX	1/6	6.93
I240	FR-8.5GX	1/5	7.95
I241	FR-10GX	1/4	9.05
I242	FR-11GX	1/4	11.15
I243	SC-12GX	1/3	12.87
I244	SC-15GX	1/3	15.28
I245	SC-18GX	2/5	17.69
I246	SC-21GX	1/2	20.95



HST - LBP R404a

CODE	MODEL	APPROX HP	DISP. C.C.
I256	FR-6CLX	1/3	6.23
I257	FR-8.5CLX	3/8	7.95
I258	SC-10CLX	2/5	10.29
I259	SC-12CLX	1/2	12.87
I260	SC-15CLX	2/3	15.28
I261	SC-18CLX	2/3	17.69
I265	SC-21CLX	3/4	20.95
I255	GS-26CLX	1	26.00
I266	GS-34CLX	1-1/2	34.00



HST - High Start Torque.

LST - Low Start Torque.



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HST - MBP R404A

CODE	MODEL	APPROX HP	DISP. C.C.
I269	GS21-MLX	7/8	21.00
I270	GS26-MLX	1	26.00
I271	GS34-MLX	1-1/2	34.00

HST - HBP R404A

CODE	MODEL	APPROX HP	DISP. C.C.
I262	SC-10DLX	1/2	10.30
I263	SC-12DLX	2/3	12.90
I264	SC-15DLX	3/4	15.30



Danfoss Compressor Electric Spares

LST Relays

CODE	MODEL	TO SUIT
I275	103N 0011	PL-TL-NL-FR-SC



HST Relays

CODE	MODEL	TO SUIT
I276	117U 6009	TL 3B-4A-4F
I277	117U 6004	TL 4B 5A-5G-5F/6F/FR7.5A
I278	117U 6000	NL7F/FR8.5A-6B
I279	117U 6001	NL9F/FR10A-7.5B-7.5G
I280	117U 6015	FR8.5B-8.5G
I281	117U 6010	FR10B-10G-11B-11G
I282	117U 6016	NL11F/FR11A
I283	117U 6002	SC12A-10B
I284	117U 6003	SC15A-12B-12G
I285	117U 6005	SC18A-15B-15G
I286	117U 6011	SC21A-18B
I287	117U 6019	SC18G-15CL-12DL



Starting Kits

CODE	MODEL	TO SUIT
I288	117U 7011	SC15DL
I289	117U 7012 117U 7027	SC18CL
I290	117U 7028	SC21G



Capacitors

CODE	MODEL	TO SUIT
I291	117U 5014	TL
I292	117U 5015	NL-FR
I293	117U 5017	SC



Embraco Compressors

EMBRACO is a company specialised in cooling solutions and world leader in the hermetic compressor market.

Refrigerant R134a

Evaporating Range (-35/-10 Deg.C)

CODE	MODEL	APPROX HP	DISP. C.C.
I031	EM 30HNP	1/10	3.01
I032	EM 40HNP	1/8	3.77
I033	EM 50HNP	1/6	4.99
I034	EM 60HNP	1/6	5.54



Refrigerant R134a

Evaporating Range (-35/+15 Deg.C)

CODE	MODEL	APPROX HP	DISP. C.C.
I038	EM 30HHR	1/8	3.47
I039	EM 45HHR	1/6	4.33
I040	EM 55HHR	1/5	5.54



Refrigerant R134a

Evaporating Range (-35/+15 Deg.C)

CODE	MODEL	APPROX HP	DISP. C.C.
I051	EGAS 70	1/5	5.56
I052	EGAS 80	1/5	6.36
I053	EGAS 90	1/5	7.15
I054	EGAS 100	1/5	7.95
I050	FFI12HBK	1/3	11.15



Refrigerant R134a LBP 1PH LST

CODE	MODEL	APPROX HP	DISP. C.C.
I630	NE1130Z	1/3	12.12

Refrigerant R134a LBP 1PH HST

CODE	MODEL	APPROX HP	DISP. C.C.
I621	NE1121Z	1/4	13.60
I644	NE2130Z	1/3	12.10



Refrigerant R134a HBP 1PH HST

CODE	MODEL	APPROX HP	DISP. C.C.
I088	NE6160Z	1/3	8.00
I639	EMT6170Z	1/4	8.80
I641	NEK6187Z	1/3	10.00
I645	NEK6210Z	1/3	12.10
I384	NEK6214Z	1/2	17.40
I385	T6215Z	1/2	20.40
I378	NJ6220Z	3/4	25.80
I379	NJ6226Z	1	34.37

All the above compressors have tube connections.

embraco

POWER IN.
CHANGE ON.



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Embraco Compressors

EMBRACO is a company specialized in cooling solutions and world leader in the hermetic compressor market.

Refrigerant R404A LBP 1PH HST

CODE	MODEL	CONN.	APPROX HP	DISP. C.C.
I632	NE2134GK	Tube	3/8	8.80
I386	NEK2168GK	Tube	3/4	17.40
I380	T2178GK	Tube	3/4	20.40
I387	T2180GK	Tube	3/4	22.40
I381	NJ2192GK	Tube	1	26.20
I399	NJ2192GK	Valve	1	26.20
I388	NJ2212GK	Tube	1-1/4	34.37

embraco POWER IN.
CHANGE ON.



Refrigerant R404A HBP/MBP 1PH HST

CODE	MODEL	CONN.	APPROX HP	DISP. C.C.
I393	EMT-22HLP	Tube	1/12	3.44
I638	EMT6144GK	Tube	1/5	4.40
I394	EMT-36HLP	Tube	1/8	4.60
I640	NEK6181GK	Tube	1/3	7.40
I642	NEK6210GK	Tube	1/2	8.90
I650	NEK6213GK	Tube	1/2	12.11
I636	NEK6217GK	Tube	5/8	14.30
I643	T6217GK	Tube	3/4	14.50
I389	NT6220GK	Tube	5/8	17.40
I313	T6222GK	Tube	3/4	20.40
I390	NJ9226GK	Valve	3/4	21.70
I646	NT6226GK	Tube	3/4	21.70
I391	NJ9232GK	Valve	1	26.20
I392	NJ9238GK	Valve	1-1/2	32.70
I370	NJ9238GK	Tube	1-1/2	32.70

Embraco Spare Parts

See below for a wide range of spare parts for Embraco and some of the older most popular Aspera compressors

CODE	TYPE	TO SUIT
I055	Terminal Box	EM/FG
I057	Evaporation Tray	EM
I075	Capacitor	PW/FF
I095	Start Capacitor EGAS Comps	70/80/90/100
I096	Relay and Capacitor EGAS Comps	70/80/90
I097	Relay and Capacitor EGAS Comps	100
I082	PTC Relay	BP1058Z/BP1084Z
I083	Overload	BP1084Z
IS316	Electrics	J9238E
IS318	Electrics	NE6187Z
IS310	Electrics	NJ2192K/NJ2192GK
IS312	Electrics	NJ2212K/NJ2212GK
IS314	Electrics	J9232E/J9232GK
IS320	Electrics	T2178GK
IS322	Electrics	T2180GK



embraco

POWER IN.
CHANGE ON.



For more information visit www.fsw.uk.com

Copeland Scroll Compressors

The following models all charged with Ester Oil.
Other compressor models are available.

1PH - Medium/High Temperature

CODE	MODEL	APPROX. HP
I940	ZR18KE-PFJ	1-1/2
I941	ZR22KE-PFJ	1-3/4
I945	ZR28KE-PFJ	2-1/2
I946	ZR34KE-PFJ	3
I947	ZR40KE-PFJ	3-1/2
I948	ZR48KE-PFJ	4
I951	ZR61KE-PFJ	5
I920	ZB15KE-PFJ	2
I942	ZB19KE-PFJ	2-1/2
I943	ZB21KE-PFJ	3
I944	ZB26KE-PFJ	3-1/2

3PH - Medium/High Temperature

CODE	MODEL	APPROX. HP
I953	ZR22KE-TFD	1-3/4
I955	ZR28KE-TFD	2-1/2
I957	ZR34KE-TFD	3
I959	ZR40KE-TFD	3-1/2
I965	ZR48KE-TFD	4
I967	ZR61KE-TFD	5
I969	ZR72KE-TFD	6
I971	ZR81KE-TFD	6-1/2
I925	ZR90KE-TWD	7-1/2
I926	ZR94KE-TFD	8
I982	ZR11ME-TWD	9
I983	ZR12ME-TWD	10
I984	ZR16ME-TWD	13
I949	ZB15KE-TFD	2
I950	ZB19KE-TFD	2-1/2
I952	ZB21KE-TFD	3
I954	ZB26KE-TFD	3-1/2
I956	ZB30KE-TFD	4
I958	ZB38KE-TFD	5
I960	ZB45KE-TFD	6
I938	ZB57KE-TWD	7-1/2
I962	ZB76KE-TFD	10
I963	ZB95KE-TFD	12

3PH - Low Temperature

CODE	MODEL	APPROX. HP
I966	ZF09KE-TFD	2-3/4
I968	ZF11KE-TFD	3-1/2
I970	ZF13KE-TFD	4
I972	ZF15KE-TFD	4-1/8
I974	ZF18KE-TFD	5-1/2
I976	ZF24KE-TWD	7-1/2
I978	ZF33KE-TWD	10-1/2
I979	ZF40KE-TWD	12-1/2
I980	ZF48KE-TWD	15

Application and Temperature Ranges:

Low Temperature : ZF: between +7 and -45°C (with liquid injection)

High Temperature : ZB: optimized for refrigeration applications between +10 and -30°C.

Air-conditioning scroll compressors ZR are suitable for use in high and medium temperature air-conditioning and process cooling applications with evaporating temperatures ranging from +12.5 to -20°C.

Copeland Scroll™



Copeland™
brand products



Copeland Summit Scroll Compressors

The following models all charged with **Ester Oil**.
Other compressor models are available.

3PH - Medium/High Temperature

CODE	MODEL	APPROX. HP
I932	ZB66KCE-TFD	9
I962	ZB76KCE-TFD	10
I963	ZB95KCE-TFD	13
I935	ZB114KCE-TFD	15

3PH - Low Temperature

CODE	MODEL	APPROX. HP
I1000	ZF25K6E-TFD	7-1/2
I1002	ZF34K6E-TFD	9
I1004	ZF41K6E-TFD	10
I1006	ZF49K6E-TFD	13

Copeland Scroll



Copeland Digital Scroll Compressors

The following models all charged with **Ester Oil**.
Other compressor models are available.

3PH - Medium/High Temperature

CODE	MODEL	APPROX. HP
I1020	ZBD29KCE-TFD	4
I1022	ZBD38KCE-TFD	5
I1024	ZBD45KCE-TFD	6
I1026	ZBD57KCE-TFD	7-1/2
I1028	ZBD76KCE-TFD	10



Copeland ZF EVI Scroll Compressors with Vapour Injection

The following models all charged with **Ester Oil**.
Other compressor models are available.

3PH - Low Temperature

CODE	MODEL	APPROX. HP
I1050	ZF13KVE-TFD-EVI	4
I1052	ZF18KVE-TFD-EVI	6
I1054	ZF24KVE-TFD-EVI	7-1/2
I1056	ZF33KVE-TFD-EVI	10
I1058	ZF40KVE-TFD-EVI	13
I1060	ZF48KVE-TFD-EVI	15



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brand products



For more information visit www.fsw.uk.com

Run Capacitors

Genuine Copeland Run Capacitors, to suit single phase compressors as listed in table below.



CODE	TO SUIT	µF
I1510	ZR18	35
I1511	ZR22, ZB15	40
I1512	ZR28, ZB19	45
I1513	ZR34, ZB21	50
I1514	ZR40	55
I1515	ZR48, ZB26	60

Start Capacitors

Genuine Copeland Start Capacitor, to suit single phase compressors as listed in table below.

CODE	TO SUIT
I1500	ZR18, ZR22, ZR28, ZR34, ZR40 & ZR48
I1530	ZB15, ZB19, ZB21 & ZB26



Potential Start Relay

Genuine Copeland Potential Starting Relay, to suit single phase compressors as listed in table below.

CODE	TO SUIT
I1505	ZR18, ZR22, ZR28, ZR34, ZR40 & ZR48
I1540	ZB15, ZB19, ZB21 & ZB26



Rotolock Valves

Pair Genuine Copeland Rotolock Valves
Suction (1-1/4" - 12) 7/8"
Discharge (1" - 14) 5/8"

CODE	TO SUIT
IS982	ZB15 - ZB45, ZF06 - ZF18, ZR18 - ZR72



Rotolock Valve Adapter Kit

Converts a brazed stub compressor to use with rotolock valves.
(Pair of white rotolock valve gaskets included)

CODE	TO SUIT
IS984	ZR18 to ZR61



Universal Crankcase Heater

Easy to use Wrap a Round 65 watt Crankcase Heater with Velcro fixing strap 65W x 950 Long (Fits around a 300mm Maximum Diameter)

CODE	MODEL
I540	CH-1 Crankcase Heater 65W x 950 Long



Copeland Bill of Material Codes

CODE	OPTION A	OPTION B	OPTION C
230	Tubes		
232	Rotolock Valve		
250	Tubes	Oil Sight Glass	
251	Tubes	Oil Sight Glass	Capillary Liquid Injection
265	Rotolock Valve	Oil Sight Glass	
422	Tubes	Oil Sight Glass	Tandem Ready
425	Tubes	Oil Sight Glass	Tandem Ready
501	Tubes		
511	Tubes		
512	Tubes		3 Mounting Feet
522	Tubes		
523	Rotolock Valve		
524	Tubes		
532	Tubes		
540	Rotolock Valve	Oil Sight Glass	Tandem Ready 24V Control Circuit
542	Tubes		Tandem Ready 24V Control Circuit
550	Tubes	Oil Sight Glass	
551	Rotolock Valve	Oil Sight Glass	120/240V Control Circuit
552	Tubes		
556	Rotolock Valve	Oil Sight Glass	DTC Valve
557	Rotolock Valve	Oil Sight Glass	240V Control Circuit
561	Rotolock Valve		24V Control Circuit
568	Tubes		24V Control Circuit
570	Rotolock Valve	Oil Sight Glass	Tandem Ready 120/240V Control Circuit
572	Tubes		Tandem Ready 120/240V Control Circuit
599	Tubes		
961	Rotolock Valve	Oil Sight Glass	110/230V & 24V Control Circuit, Includes Rotolock to Tube adaptors

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Maneurop Compressors

Maneurop® MTZ series compressors are of the hermetic reciprocating type and are designed for medium and high evaporating temperature applications. Available in a wide variety of single and tandem models for refrigerants R134a, R404A, R407A & R407F.

1PH - R134a/R404A/R407C/R407A/R407F

CODE	MODEL	APPROX HP	DISP. C.C.
I675	MTZ18-5VI	1-1/2	30
I676	MTZ22-5VI	1-3/4	38
I677	MTZ28-5VI	2	48
I678	MTZ32-5VI	2-3/4	53
I679	MTZ36-5VI	3	60

Single phase compressors are supplied WITHOUT Electrics.
All Maneurop compressors are supplied without valves
(Please order separately).



Maneurop
RECIPROCATING COMPRESSORS

3PH - R134a/R404A/R407C/R407A/R407F

CODE	MODEL	APPROX HP	DISP. C.C.
I681	MTZ18-4VI	1-1/2	30
I682	MTZ22-4VI	1-3/4	38
I683	MTZ28-4VI	2	48
I684	MTZ32-4VI	2-3/4	53
I685	MTZ36-4VI	3	60
I686	MTZ40-4VI	3-1/2	67
I687	MTZ44-4VI	3-3/4	76
I688	MTZ50-4VI	4	85
I689	MTZ56-4ER	4-1/2	96
I690	MTZ64-4VI	5	107
I691	MTZ72-4ER	6	121
I692	MTZ80-4VI	6-1/2	135
I693	MTZ100-4VI	8-1/2	171
I694	MTZ125-4ER	10	215
I695	MTZ144-4VI	11-1/2	242
I696	MTZ160-4VI	13	271



Maneurop Tandem Compressors and Condensing Units are available to order.

FSW REFRIGERATION & AIR CONDITIONING

Where you need us - When you need us



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Maneurop Compressor Spare Parts

Maneurop CSR Electric Kit

A complete set of genuine Maneurop compressor electrics to suit models as shown in table below.

CSR Electric Kit

CODE	PART NO	TO SUIT MODEL
I710	CSR-2/631	18, 22 and 28
I711	CSR-2/633	32 and 36

I710



Crankcase Heater & Heat Transfer Paste

A PTC crankcase heater is recommended on all Maneurop compressors.

PTC crankcase heaters are self-regulating.

CODE	PART NO	TO SUIT MODEL
I714	30 Watt Heater	All Models
I715	Heat Transfer Paste	



Maneurop Mineral or Ester Oils

Genuine Maneurop Mineral Oil available in 2 Litre container for MT Models and genuine Maneurop Ester Oils available in 2.5 Litre container for MTE/Z model compressors.

CODE	PART NO	TO SUIT MODEL
I718	2.0 L Mineral Oil 160P	MT Models
I719	2.5 L Ester Oil 160PZ	MTE/Z Models
M072	2.0 L Ester Oil 160SZ	(NOT MLZ) LTZ, NTZ Models



Maneurop Rotolock Valves

Rotolock valves to suit models as listed below.

Please Note: PTFE Gaskets are Not Included

CODE	PART NO	TO SUIT MODEL
I722	3/8 Discharge	18 to 28
I723	1/2 Suction	18 to 40
I726	5/8 Suction	32 to 40
I728	3/4 Discharge	44 to 80
I729	7/8 Suction	44 to 80
I731	7/8 Discharge	100 to 160
I732	1-1/8 Suction	100 to 160



Maneurop Rotolock Gasket Sets

Assorted multi-pack of Maneurop gaskets

1 x 1", 1 x 1-1/4", and 1 x 1-3/4" white rotolock gaskets plus 1 x oil sight glass gasket (black)

All 1-2-4 cylinder models; all VTZ models; MFZ166, LFZ166

CODE	PART NO	DESCRIPTION
I735	8156009	1 x 1", 1 x 1-1/4" & 1 x 1-3/4" White Rotolock Gaskets. Plus 1 x Black Sight glass Gasket

