



tecumseh

FH4518Y-XG1A

380-420V 3~ 50Hz / 460V 3~ 60 Hz

Compressor

HBP

R-134a / R-513A

Voltage Code : XG

Refrigerant	Frequency	Nominal Cooling Capacity (*)		Sound Power ISO3745 / ISO 3743-1
		Watts	BTU/h	
R-134a	50HZ / 60HZ	2082 / 2529	7100 / 8622	69 dBA
R-513A	50HZ / 60HZ	2138 / 2597	7291 / 8856	

(*) Operating conditions ARI 520-90 : Dew / T°Cond. 120°F / T°Evap 20°F / T°Evaporating 20°F / T°Superheat 32°F



*Non-contractual picture

General

Compressor Type	Reciprocating
Displacement (cc)	48.5
Horse Power	1-1/2
Compressor Cooling	Fan
Evaporating Temp. Range	-15°C to 15°C (5°F to 59°F)
Oil Type	P.O.E 32
Oil Charge (cc)	1140

Electrical

Motor Type	3PH
Main Winding (Ohm)	10.25
Current RLA 50Hz (A)	2.49
Current RLA 60Hz (A)	2.49
Current MCC (A)	4.91
Current LRA (A)	18
Overload	Internal
- Time Check	3.0-10s / 19 A
- Open Temp / Close Temp	115 °C / 69 °C

Dimensions

Weight	28.3 kg (62 lb)
Length	238 mm (9.4 in)
Width	222 mm (8.7 in)
Height	354 mm (13.9 in)
Ø Suction Tube	5/8 in (15.9mm)
Ø Discharge Tube	3/8 in (9.52mm)

Certificates



Note : Tecumseh reserves the right to change information contained in this document without notification.



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Performances are given at rating conditions ARI 520-90
Conditions DEW

Evaporating : 20 °F
Superheat : 32 °F

50HZ R-134a

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	2703	4234	6181	8634	11688	15445	20009	25491
	Power Input	(W)	552	673	781	878	965	1043	1115	1182
	Amps	(A)	1.09	1.26	1.41	1.52	1.61	1.67	1.71	1.71
105	Refrig. Capacity	(Btu/h)	1983	3364	5083	7228	9893	13177	17188	22036
	Power Input	(W)	519	666	802	927	1043	1153	1257	1358
	Amps	(A)	1	1.25	1.48	1.67	1.84	1.98	2.1	2.18
120	Refrig. Capacity	(Btu/h)		2580	4116	6000	8323	11184	14689	18952
	Power Input	(W)		650	812	965	1110	1250	1386	1519
	Amps	(A)		1.17	1.47	1.75	2	2.22	2.41	2.58
140	Refrig. Capacity	(Btu/h)			2980	4584	6524	8896	11804	15364
	Power Input	(W)			833	1020	1202	1380	1556	1730
	Amps	(A)			1.36	1.74	2.1	2.43	2.73	3

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60HZ R-134a

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	3130	5111	7523	10461	14029	18336	23496	29628
	Power Input	(W)	686	819	939	1048	1149	1244	1337	1430
	Amps	(A)	1.02	1.23	1.42	1.6	1.76	1.91	2.05	2.18
105	Refrig. Capacity	(Btu/h)	2107	3947	6154	8821	12053	15957	20649	26252
	Power Input	(W)	653	822	977	1119	1252	1379	1502	1623
	Amps	(A)	0.95	1.2	1.44	1.66	1.87	2.06	2.25	2.42
120	Refrig. Capacity	(Btu/h)		2855	4852	7246	10137	13633	17853	22920
	Power Input	(W)		791	986	1168	1340	1503	1662	1818
	Amps	(A)		1.17	1.45	1.72	1.97	2.21	2.44	2.66
140	Refrig. Capacity	(Btu/h)			3295	5318	7750	10698	14280	18627
	Power Input	(W)			949	1193	1425	1647	1863	2074
	Amps	(A)			1.45	1.78	2.1	2.4	2.69	2.96



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Conditions DEW

Evaporating : 20 °F
Superheat : 32 °F

50HZ R-513A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	3006	4654	6695	9205	12265	15962	20387	25635
	Power Input	(W)	613	738	845	938	1025	1110	1201	1302
	Amps	(A)	1.21	1.38	1.52	1.63	1.71	1.78	1.84	1.88
105	Refrig. Capacity	(Btu/h)	2157	3610	5401	7604	10301	13577	17527	22249
	Power Input	(W)	565	724	862	987	1102	1216	1333	1459
	Amps	(A)	1.1	1.36	1.59	1.78	1.95	2.09	2.22	2.34
120	Refrig. Capacity	(Btu/h)		2721	4272	6179	8523	11388	14872	19076
	Power Input	(W)		694	866	1022	1168	1311	1455	1607
	Amps	(A)		1.26	1.57	1.85	2.1	2.33	2.54	2.73
140	Refrig. Capacity	(Btu/h)			3042	4572	6463	8798	11677	15207
	Power Input	(W)			871	1071	1259	1442	1624	1813
	Amps	(A)			1.43	1.83	2.2	2.53	2.85	3.14

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60HZ R-513A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	3487	5618	8145	11149	14720	18951	23942	29800
	Power Input	(W)	762	898	1015	1120	1220	1325	1441	1576
	Amps	(A)	1.14	1.35	1.53	1.71	1.87	2.04	2.21	2.4
105	Refrig. Capacity	(Btu/h)	2292	4237	6539	9279	12547	16437	21054	26508
	Power Input	(W)	712	893	1051	1191	1323	1454	1591	1743
	Amps	(A)	1.03	1.3	1.54	1.77	1.97	2.18	2.38	2.6
120	Refrig. Capacity	(Btu/h)		3000	5034	7464	10381	13881	18071	23068
	Power Input	(W)		846	1052	1238	1410	1576	1745	1923
	Amps	(A)		1.24	1.54	1.82	2.07	2.32	2.56	2.81
140	Refrig. Capacity	(Btu/h)			3347	5300	7680	10585	14128	18435
	Power Input	(W)			993	1253	1493	1721	1945	2173
	Amps	(A)			1.52	1.87	2.2	2.51	2.81	3.1