



tecumseh

FH4524Z-XC3A

220 - 240V 1~ 50 Hz

Compressor

HBP

R-404A / R-448A / R-449A / R-452A

Voltage Code : XC

Refrigerant	Frequency	Nominal Cooling Capacity (*)		Sound Power ISO3745 / ISO 3743-1
		Watts	BTU/h	
R-452A	50HZ	6259	21344	73 dBA
R-404A	50HZ	6331	21587	
R-448A	50HZ	6060	20664	
R-449A	50HZ	6077	20723	

(*) Operating conditions ASHRAE : Dew / T°Cond. 130°F / T°Evap 45°F / T°Return gas temp. 95°F / T°Subcooling 15°F



*Non-contractual picture

Dimensions

Weight	29.3 kg (65 lb)
Length	274 mm (10.8 in)
Width	288 mm (11.3 in)
Height	354 mm (13.9 in)

Certificates



General

Compressor Type	Reciprocating
Displacement (cc)	43.3
Horse Power	1-3/4
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	CSR
Main Winding (Ohm)	1.31
Start Winding (Ohm)	3.8
Current RLA 50Hz (A)	10.5
Current MCC (A)	15.9
Current LRA (A)	52
Start Capacitor	88-101 µF / 330 V
Run Capacitor	35 µF / 400 V
Overload	15HM- 2311-148
- Time Check	2.0-10s / 56 A
- Open Temp / Close Temp	120 °C / 69 °C
Potential Relay	RVA 4G3D
- Pick Up / Drop Out	180-195 V / 40-105 V

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



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Performances are given at rating conditions ASHRAE
Conditions DEW

Return gas temp. : 95 °F
Subcooling : 15 °F

50HZ R-452A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)		8841	12172	16126	20805	26311	32748	40223
	Power Input	(W)		1135	1276	1394	1486	1551	1590	1599
	Amps	(A)		5.36	6	6.57	7.03	7.34	7.49	7.42
105	Refrig. Capacity	(Btu/h)			10076	13626	17794	22685	28410	35082
	Power Input	(W)			1340	1504	1643	1755	1839	1895
	Amps	(A)			6.31	7.06	7.71	8.25	8.63	8.82
120	Refrig. Capacity	(Btu/h)				11188	14846	19123	24136	30008
	Power Input	(W)				1575	1767	1931	2067	2175
	Amps	(A)				7.41	8.29	9.07	9.72	10.2
140	Refrig. Capacity	(Btu/h)					11072	14542	18623	23455
	Power Input	(W)					1864	2107	2322	2507
	Amps	(A)					8.72	9.87	10.9	11.8

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50HZ R-404A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)		9447	12796	16782	21502	27055	33543	41073
	Power Input	(W)		1209	1351	1467	1554	1609	1630	1614
	Amps	(A)		5.72	6.36	6.92	7.35	7.62	7.68	7.49
105	Refrig. Capacity	(Btu/h)			10652	14201	18369	23260	28982	35651
	Power Input	(W)			1418	1581	1717	1823	1896	1935
	Amps	(A)			6.68	7.42	8.06	8.57	8.9	9
120	Refrig. Capacity	(Btu/h)				11680	15303	19537	24499	30316
	Power Input	(W)				1657	1844	2003	2132	2227
	Amps	(A)				7.79	8.66	9.41	10	10.4
140	Refrig. Capacity	(Btu/h)					11409	14797	18782	23515
	Power Input	(W)					1955	2187	2392	2566
	Amps	(A)					9.15	10.2	11.2	12.1



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Conditions DEW

Return gas temp. : 95 °F
Subcooling : 15 °F

50HZ R-448A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)			10875	14619	19118	24480	30812	38223
	Power Input	(W)			1199	1310	1397	1456	1482	1473
	Amps	(A)			5.64	6.18	6.61	6.89	6.98	6.84
105	Refrig. Capacity	(Btu/h)			9065	12429	16453	21246	26921	33591
	Power Input	(W)			1261	1416	1548	1655	1732	1775
	Amps	(A)			5.94	6.64	7.27	7.78	8.12	8.26
120	Refrig. Capacity	(Btu/h)				10301	13859	18094	23122	29061
	Power Input	(W)				1490	1672	1831	1963	2063
	Amps	(A)				7.01	7.85	8.61	9.23	9.67
140	Refrig. Capacity	(Btu/h)					10591	14100	18286	23276
	Power Input	(W)					1784	2020	2231	2414
	Amps	(A)					8.35	9.46	10.5	11.4

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50HZ R-449A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)			10892	14643	19150	24522	30865	38291
	Power Input	(W)			1199	1310	1397	1456	1482	1473
	Amps	(A)			5.64	6.18	6.61	6.89	6.98	6.84
105	Refrig. Capacity	(Btu/h)			9082	12452	16485	21289	26976	33662
	Power Input	(W)			1261	1416	1548	1655	1732	1775
	Amps	(A)			5.94	6.64	7.27	7.78	8.12	8.26
120	Refrig. Capacity	(Btu/h)				10324	13891	18137	23179	29136
	Power Input	(W)				1490	1672	1831	1963	2063
	Amps	(A)				7.01	7.85	8.61	9.23	9.67
140	Refrig. Capacity	(Btu/h)					10625	14147	18349	23360
	Power Input	(W)					1784	2020	2231	2414
	Amps	(A)					8.35	9.46	10.5	11.4

* Due to very high discharge temperature especially on LBP conditions, please strictly refer to Tecumseh Guidelines & Marketing Bulletin when using this refrigerant.