



tecumseh

FH4538Z-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	8219	28027	75 dBA
R-404A	50HZ	8030	27382	
R-448A	50HZ	8231	28069	
R-449A	50HZ	8231	28069	

(*) Operating conditions EN12900 : Dew / T°Cond. 50°C / T°Evap 5°C / T°Return gas temp. 20°C / T°Subcooling 0K



*Non-contractual picture

Dimensions

Weight	31.5 kg (69 lb)
Length	238 mm (9.4 in)
Width	222 mm (8.7 in)
Height	354 mm (13.9 in)

Certificates



General

Compressor Type	Reciprocating
Displacement (cc)	63
Horse Power	3 hp
Compressor Cooling	Fan
Evaporating Temp. Range	-15°C to 15°C (5°F to 59°F)
Oil Type	P.O.E. / 32 cSt@40°C
Oil Charge (cc)	1140

Electrical

Motor Type	CSR
Main Winding (Ohm)	0.79
Start Winding (Ohm)	2.71
Current RLA 50Hz (A)	15
Current LRA (A)	85
Run Capacitor	50 µF / 400 V
Overload	15HM 2357-148
- Time Check	2.0-10s / 64 A
- Open Temp / Close Temp	130 °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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FH4538Z-XC3A

220 - 240V 1~ 50 Hz

Performances are given at rating conditions EN12900
Conditions DEW

Return gas temp. : 20 °C
Subcooling : 0 K

50HZ R-452A

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	2949	3939	5088	6422	7970	9756	11807	14150	16812
	Power Input (W)	1574	1773	1947	2098	2228	2337	2428	2503	2563
	Amps (A)	7.82	8.57	9.3	9.98	10.6	11.2	11.6	12	12.3
40	Refrig. Capacity (Watt)		3166	4204	5386	6739	8290	10065	12091	14394
	Power Input (W)		1853	2094	2310	2503	2675	2827	2962	3080
	Amps (A)		8.97	9.96	10.9	11.8	12.5	13.2	13.8	14.3
50	Refrig. Capacity (Watt)			3284	4297	5439	6738	8219	9910	11837
	Power Input (W)			2172	2459	2722	2963	3183	3384	3568
	Amps (A)			10.3	11.6	12.8	13.9	14.9	15.8	16.5
60	Refrig. Capacity (Watt)				3188	4102	5132	6302	7641	9175
	Power Input (W)				2545	2885	3201	3495	3769	4025
	Amps (A)				11.8	13.4	14.9	16.3	17.6	18.7

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50HZ R-404A

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	3111	4068	5186	6490	8002	9748	11751	14035	16624
	Power Input (W)	1638	1833	2003	2148	2267	2360	2425	2463	2472
	Amps (A)	8.17	8.9	9.61	10.3	10.9	11.3	11.7	11.9	11.9
40	Refrig. Capacity (Watt)	2429	3306	4301	5439	6742	8236	9943	11889	14096
	Power Input (W)	1669	1922	2152	2360	2544	2705	2841	2952	3037
	Amps (A)	8.38	9.33	10.3	11.2	12	12.7	13.4	13.9	14.2
50	Refrig. Capacity (Watt)		2517	3374	4329	5408	6633	8030	9621	11431
	Power Input (W)		1960	2248	2516	2764	2991	3196	3378	3538
	Amps (A)		9.53	10.7	11.9	13	14.1	15	15.8	16.5
60	Refrig. Capacity (Watt)			2438	3196	4034	4976	6046	7268	8665
	Power Input (W)			2310	2637	2946	3237	3508	3760	3992
	Amps (A)			10.8	12.3	13.8	15.1	16.4	17.6	18.6



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FH4538Z-XC3A

220 - 240V 1~ 50 Hz

Performances are given at rating conditions EN12900
Conditions DEW

Return gas temp. : 20 °C
Subcooling : 0 K

50HZ R-448A*

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	2625	3559	4664	5969	7502	9292	11367	13757	16489
	Power Input (W)	1484	1665	1828	1972	2094	2193	2266	2311	2326
	Amps (A)	7.37	8.05	8.73	9.39	9.98	10.5	10.9	11.1	11.1
40	Refrig. Capacity (Watt)		2911	3911	5075	6432	8009	9836	11942	14354
	Power Input (W)		1751	1970	2173	2358	2522	2664	2780	2870
	Amps (A)		8.47	9.37	10.2	11.1	11.8	12.5	13	13.3
50	Refrig. Capacity (Watt)			3127	4140	5309	6663	8231	10042	12123
	Power Input (W)			2063	2328	2578	2811	3025	3217	3386
	Amps (A)			9.81	11	12.1	13.2	14.2	15	15.7
60	Refrig. Capacity (Watt)				3209	4180	5300	6598	8102	9842
	Power Input (W)				2442	2761	3066	3356	3627	3878
	Amps (A)				11.3	12.8	14.3	15.7	16.9	18

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50HZ R-449A*

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