



tecumseh

FHT4538ZHR-XG

380-420V 3~ 50 Hz

Condensing unit

3H73920245

HBP

R-452A / R-404A

Voltage Code : GB

Refrigerant	Frequency	Nominal Cooling Capacity (*)	
		Watts	BTU/h
R-452A	50HZ	4919	16772
R-404A	50HZ	5310	18109
R-448A	50HZ	4792	16341
R-449A	50HZ	4781	16305

(*) Operating conditions EN13215 : Dew / T°Ambient 32°C / T°Evap -10°C / T°Return gas temp. 20°C / T°Subcooling 3K

General

Condensing Unit Type	Indoor
Family Condensing Unit	Standard
Horse Power	3 hp
Design Ambient Temp °C (°F)	43 (109)
Compressor Model	1 x FH4538Z-XG1A

Electrical

Motor Type	3PH
Current RLA 50Hz (A)	6.6
Current LRA (A)	45
Overload	31HM106-44
- Time Check	3.0-10s / 25 A
- Open Temp / Close Temp	105 °C / 69 °C

Pressure Equipment Directive

PED Category	Category I
Maximum BP Pressure	17 bar
Maximum HP Pressure	32 bar

Dimensions

Weight	62.7 kg (138 lb)
Length	643 mm (25.3 in)
Width	592 mm (23.3 in)
Height	540 mm (21.3 in)

Certificates



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



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380-420V 3~ 50 Hz

Performances are given at rating conditions EN13215
Conditions DEW

Return gas temp. : 20 °C
Subcooling : 3 K

50HZ R-452A

Ambient	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
32	Refrig. Capacity (Watt)		3091	3975	4919	5914	6952	8024	9126	10259
	Power Input (W)		1975	2248	2528	2817	3114	3420	3733	4055
	Amps (A)		4.94	5.33	5.72	6.13	6.55	6.99	7.46	7.96
	Condensing (°C)		41.2	43.2	45.3	47.6	50	52.5	55	57.6
38	Refrig. Capacity (Watt)		2647	3483	4361	5277	6227	7208	8221	9277
	Power Input (W)		1995	2289	2591	2901	3218	3542	3871	4205
	Amps (A)		4.93	5.37	5.81	6.26	6.71	7.19	7.68	8.2
	Condensing (°C)		46.3	48.1	50.1	52.2	54.4	56.7	59	61.4
46	Refrig. Capacity (Watt)			2820	3612	4425	5261	6125		
	Power Input (W)			2329	2661	2999	3343	3692		
	Amps (A)			5.38	5.89	6.4	6.91	7.43		
	Condensing (°C)			54.7	56.5	58.4	60.4	62.4		

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50HZ R-404A

Ambient	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
32	Refrig. Capacity (Watt)	2678	3486	4366	5310	6307	7343	8405	9484	10580
	Power Input (W)	1799	2051	2309	2574	2844	3119	3399	3684	3973
	Amps (A)	4.79	5.13	5.47	5.83	6.19	6.57	6.97	7.39	7.84
	Condensing (°C)	36.7	38.5	40.4	42.5	44.8	47.2	49.7	52.3	54.9
38	Refrig. Capacity (Watt)		3036	3859	4728	5635	6570	7527	8505	9512
	Power Input (W)		2088	2366	2650	2940	3235	3534	3835	4138
	Amps (A)		5.15	5.54	5.93	6.34	6.75	7.18	7.63	8.09
	Condensing (°C)		43.6	45.5	47.5	49.6	51.9	54.2	56.5	58.9
46	Refrig. Capacity (Watt)			3170	3940	4729	5534	6358	7209	
	Power Input (W)			2433	2743	3059	3380	3703	4027	
	Amps (A)			5.61	6.06	6.52	6.98	7.45	7.93	
	Condensing (°C)			52.3	54.1	56.1	58.1	60.1	62.2	



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FHT4538ZHR-XG

380-420V 3~ 50 Hz

Performances are given at rating conditions EN13215
Conditions DEW

Return gas temp. : 20 °C
Subcooling : 3 K

50HZ R-448A*

Ambient	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
32	Refrig. Capacity (Watt)		2891	3793	4792	5888	7078	8356	9715	11149
	Power Input (W)		1875	2119	2375	2639	2914	3198	3494	3802
	Amps (A)		4.74	5.08	5.43	5.8	6.19	6.61	7.06	7.54
	Condensing (°C)		40.5	42.1	43.9	45.9	48.1	50.5	53	55.6
38	Refrig. Capacity (Watt)		2501	3356	4292	5312	6415	7598	8859	10194
	Power Input (W)		1906	2171	2448	2735	3033	3342	3661	3992
	Amps (A)		4.76	5.14	5.54	5.95	6.38	6.84	7.32	7.84
	Condensing (°C)		45.6	47.2	48.9	50.8	52.9	55.1	57.4	59.9
46	Refrig. Capacity (Watt)			2765	3621	4541	5531	6590	7722	
	Power Input (W)			2230	2535	2854	3184	3525	3877	
	Amps (A)			5.2	5.66	6.14	6.63	7.14	7.67	
	Condensing (°C)			54	55.5	57.3	59.2	61.2	63.3	

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50HZ R-449A*

Ambient	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
32	Refrig. Capacity (Watt)		2887	3786	4781	5872	7056	8325	9675	11099
	Power Input (W)		1875	2121	2377	2643	2919	3206	3504	3815
	Amps (A)		4.74	5.08	5.44	5.81	6.2	6.62	7.07	7.56
	Condensing (°C)		40.5	42.2	44	46.1	48.3	50.7	53.2	55.9
38	Refrig. Capacity (Watt)			3348	4281	5296	6392	7568	8819	10145
	Power Input (W)			2172	2450	2739	3038	3349	3671	4005
	Amps (A)			5.14	5.54	5.96	6.39	6.85	7.34	7.86
	Condensing (°C)			47.3	49	51	53	55.3	57.6	60.1
46	Refrig. Capacity (Watt)			2757	3609	4525	5508	6560	7683	
	Power Input (W)			2231	2537	2857	3189	3532	3886	
	Amps (A)			5.2	5.67	6.14	6.63	7.15	7.69	
	Condensing (°C)			54.1	55.7	57.4	59.3	61.4	63.5	

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