



tecumseh

AJ4480P

220 - 240V 1~ 50 Hz

Compressor

AJ4480P-FZ3A

HBP

R-404A / R-448A / R-449A / R-452A / R-454C / R-455A

Voltage Code : FZ

Refrigerant	Frequency	Nominal Cooling Capacity (*)		Sound Power ISO3745 / ISO 3743-1
		Watts	BTU/h	
R-452A	50HZ	1883	6422	61 dBA
R-404A	50HZ	1879	6406	
R-448A	50HZ	1885	6428	
R-449A	50HZ	1885	6428	
R-454C	50HZ	1647	5617	
R-455A	50HZ	1812	6178	

(*) 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	20 kg (44 lb)
Length	246 mm (9.7 in)
Width	218 mm (8.6 in)
Height	268 mm (10.6 in)
Ø Suction Tube	1/2 in (12.7mm)
Ø Discharge Tube	5/16 in (7.93mm)

Certificates



General

Compressor Type	Reciprocating
Displacement (cc)	15.2
Horse Power	3/4
Compressor Cooling	Fan
Evaporating Temp. Range	-15°C to 15°C (5°F to 59°F)
Expansion Device	Capil. Tube/Expans. Valve
Oil Type	P.O.E 32
Oil Charge (cc)	475

Electrical

Motor Type	CSR
Main Winding (Ohm)	3.75
Start Winding (Ohm)	12.55
Current RLA 50Hz (A)	4.4
Current MCC (A)	6.1
Current LRA (A)	24.1
Start Capacitor	88-101 µF / 250 V
Run Capacitor	15 µF / 400 V
Overload	T0155
- Time Check	7.5s - 14s / 15.3 A
- Open Temp / Close Temp	105 °C / 60 °C
Potential Relay	RVA 413D
- Pick Up / Drop Out	204-233 V / 50-110 V

Pressure Equipment Directive

Max. Ambient Temp. (°C)	+46
Max. Allowable Press. (bar)	21.5
Ambient Temp. Range (°C)	-35/+150
Leak Test pressure (bar)	23.7
Free Volume (l)	4.7

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



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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)	725	941	1200	1508	1870	2294	2785	3350	3996
	Power Input (W)	458	505	549	587	621	649	670	684	690
	Amps (A)	2.24	2.45	2.63	2.79	2.92	3.03	3.11	3.17	3.21
40	Refrig. Capacity (Watt)		765	991	1255	1562	1920	2335	2812	3359
	Power Input (W)		526	584	638	687	732	771	803	828
	Amps (A)		2.49	2.76	3	3.23	3.42	3.6	3.75	3.87
50	Refrig. Capacity (Watt)			778	998	1252	1545	1883	2273	2722
	Power Input (W)			606	677	743	806	864	916	961
	Amps (A)			2.83	3.17	3.48	3.77	4.03	4.27	4.48
60	Refrig. Capacity (Watt)				738	938	1166	1429	1733	2084
	Power Input (W)				702	788	870	947	1021	1088
	Amps (A)				3.27	3.67	4.05	4.41	4.74	5.05

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50HZ R-404A

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	773	992	1254	1563	1925	2346	2833	3391	4025
	Power Input (W)	485	533	577	616	649	675	695	706	710
	Amps (A)	2.37	2.58	2.76	2.92	3.05	3.15	3.23	3.28	3.3
40	Refrig. Capacity (Watt)	609	805	1032	1294	1598	1950	2355	2820	3350
	Power Input (W)	496	558	616	669	718	762	798	828	850
	Amps (A)	2.34	2.64	2.91	3.15	3.37	3.56	3.73	3.86	3.98
50	Refrig. Capacity (Watt)		615	807	1024	1271	1554	1879	2251	2678
	Power Input (W)		569	642	712	778	839	894	943	986
	Amps (A)		2.64	3	3.33	3.64	3.92	4.17	4.4	4.6
60	Refrig. Capacity (Watt)			580	752	943	1158	1404	1686	2010
	Power Input (W)			656	743	827	907	982	1051	1114
	Amps (A)			3.04	3.46	3.86	4.22	4.57	4.88	5.17



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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)	638	850	1104	1407	1766	2189	2683	3253	3909
	Power Input	(W)	427	470	511	549	582	609	630	644	649
	Amps	(A)	2.09	2.28	2.45	2.6	2.74	2.85	2.93	2.99	3.02
40	Refrig. Capacity	(Watt)		694	918	1182	1492	1856	2280	2772	3339
	Power Input	(W)		494	548	599	647	690	727	757	780
	Amps	(A)		2.34	2.59	2.82	3.03	3.23	3.39	3.53	3.65
50	Refrig. Capacity	(Watt)			732	958	1221	1528	1885	2300	2780
	Power Input	(W)			573	640	705	766	822	873	916
	Amps	(A)			2.68	3	3.3	3.58	3.84	4.07	4.27
60	Refrig. Capacity	(Watt)				739	956	1207	1499	1839	2235
	Power Input	(W)				668	753	834	912	985	1052
	Amps	(A)				3.11	3.51	3.89	4.24	4.57	4.88

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50HZ R-449A*

Condensing	Evaporating	(°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity	(Watt)	638	850	1104	1407	1766	2189	2683	3253	3909
	Power Input	(W)	427	470	511	549	582	609	630	644	649
	Amps	(A)	2.09	2.28	2.45	2.6	2.74	2.85	2.93	2.99	3.02
40	Refrig. Capacity	(Watt)		694	918	1182	1492	1856	2280	2772	3339
	Power Input	(W)		494	548	599	647	690	727	757	780
	Amps	(A)		2.34	2.59	2.82	3.03	3.23	3.39	3.53	3.65
50	Refrig. Capacity	(Watt)			732	958	1221	1528	1885	2300	2780
	Power Input	(W)			573	640	705	766	822	873	916
	Amps	(A)			2.68	3	3.3	3.58	3.84	4.07	4.27
60	Refrig. Capacity	(Watt)				739	956	1207	1499	1839	2235
	Power Input	(W)				668	753	834	912	985	1052
	Amps	(A)				3.11	3.51	3.89	4.24	4.57	4.88

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



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Conditions DEW

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

50HZ R-454C



Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	537	723	944	1207	1518	1882	2306	2794	3354
	Power Input (W)	386	424	460	492	521	544	563	577	584
	Amps (A)	1.85	2.02	2.19	2.33	2.46	2.56	2.64	2.68	2.68
40	Refrig. Capacity (Watt)		589	787	1020	1294	1613	1984	2413	2906
	Power Input (W)		439	488	532	572	607	637	660	678
	Amps (A)		2.09	2.31	2.51	2.7	2.86	3	3.1	3.17
50	Refrig. Capacity (Watt)			623	824	1058	1330	1647	2015	2438
	Power Input (W)			500	562	618	669	715	753	785
	Amps (A)			2.37	2.65	2.91	3.15	3.36	3.54	3.69
60	Refrig. Capacity (Watt)				627	820	1043	1304	1608	1961
	Power Input (W)				570	648	720	786	845	896
	Amps (A)				2.68	3.03	3.36	3.67	3.94	4.18

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50HZ R-455A



Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	591	794	1036	1324	1663	2062	2526	3062	3676
	Power Input (W)	396	437	475	509	539	563	581	590	591
	Amps (A)	1.92	2.1	2.27	2.42	2.55	2.66	2.73	2.77	2.78
40	Refrig. Capacity (Watt)		643	862	1118	1419	1771	2180	2654	3198
	Power Input (W)		455	507	555	599	637	669	694	710
	Amps (A)		2.17	2.41	2.63	2.83	3.01	3.15	3.26	3.34
50	Refrig. Capacity (Watt)			676	898	1157	1460	1812	2220	2692
	Power Input (W)			519	585	647	704	755	798	833
	Amps (A)			2.46	2.77	3.06	3.32	3.55	3.75	3.92
60	Refrig. Capacity (Watt)				675	890	1140	1432	1773	2170
	Power Input (W)				589	674	753	827	893	951
	Amps (A)				2.79	3.18	3.55	3.89	4.19	4.47