



tecumseh

AJ4519P

220 - 240V 1~ 50 Hz

Compressor

AJ4519P-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	4187	14278	68 dBA
R-404A	50HZ	4177	14243	
R-448A	50HZ	4191	14291	
R-449A	50HZ	4191	14291	
R-454C	50HZ	3682	12554	
R-455A	50HZ	3923	13376	

(*) 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	22.2 kg (49 lb)
Length	246 mm (9.7 in)
Width	218 mm (8.6 in)
Height	280 mm (11 in)
Ø Suction Tube	5/8 in (15.9mm)
Ø Discharge Tube	3/8 in (9.52mm)

Certificates



General

Compressor Type	Reciprocating
Displacement (cc)	34.5
Horse Power	1-1/2
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)	1.28
Start Winding (Ohm)	5.93
Current RLA 50Hz (A)	10.4
Current MCC (A)	16.3
Current LRA (A)	48
Start Capacitor	100-115 µF / 250 V
Run Capacitor	25 µF / 400 V
Overload	T0770
- Time Check	2.8s - 5.2s / 48.5 A
- Open Temp / Close Temp	135 °C / 61 °C
Potential Relay	RVA 6M3D
- Pick Up / Drop Out	/ 60-135 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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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)	1565	2073	2659	3336	4117	5016	6046	7220	8553
	Power Input (W)	944	1058	1163	1259	1345	1421	1486	1540	1581
	Amps (A)	5.17	5.62	6.06	6.47	6.86	7.23	7.58	7.91	8.23
40	Refrig. Capacity (Watt)		1684	2213	2811	3491	4268	5155	6164	7310
	Power Input (W)		1110	1242	1371	1495	1613	1726	1833	1933
	Amps (A)		5.83	6.43	7.01	7.57	8.11	8.63	9.13	9.62
50	Refrig. Capacity (Watt)			1736	2244	2813	3456	4187	5020	5967
	Power Input (W)			1308	1463	1618	1773	1927	2081	2232
	Amps (A)			6.71	7.46	8.2	8.91	9.6	10.3	10.9
60	Refrig. Capacity (Watt)				1663	2107	2605	3169	3813	4550
	Power Input (W)				1563	1743	1928	2118	2311	2508
	Amps (A)				7.83	8.73	9.62	10.5	11.3	12.2

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50HZ R-404A

Condensing	Evaporating (°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity (Watt)	1669	2186	2778	3457	4237	5130	6149	7307	8616
	Power Input (W)	1000	1116	1223	1319	1405	1479	1541	1590	1626
	Amps (A)	5.48	5.93	6.37	6.78	7.16	7.52	7.86	8.17	8.46
40	Refrig. Capacity (Watt)	1295	1774	2304	2899	3571	4334	5199	6181	7291
	Power Input (W)	1038	1176	1310	1439	1562	1679	1789	1891	1985
	Amps (A)	5.55	6.18	6.78	7.36	7.91	8.44	8.94	9.42	9.87
50	Refrig. Capacity (Watt)		1345	1802	2301	2855	3476	4177	4971	5871
	Power Input (W)		1232	1386	1540	1693	1845	1996	2144	2289
	Amps (A)		6.35	7.11	7.86	8.58	9.27	9.94	10.6	11.2
60	Refrig. Capacity (Watt)			1303	1695	2119	2587	3112	3708	4387
	Power Input (W)			1481	1653	1830	2010	2194	2381	2569
	Amps (A)			7.37	8.28	9.17	10	10.9	11.7	12.5



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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)	1378	1872	2445	3113	3888	4787	5823	7011	8366
	Power Input	(W)	880	985	1084	1177	1261	1335	1398	1449	1487
	Amps	(A)	4.82	5.24	5.64	6.04	6.43	6.79	7.13	7.45	7.74
40	Refrig. Capacity	(Watt)		1528	2051	2648	3335	4126	5035	6077	7267
	Power Input	(W)		1041	1165	1287	1406	1520	1629	1730	1822
	Amps	(A)		5.47	6.03	6.58	7.12	7.64	8.14	8.62	9.06
50	Refrig. Capacity	(Watt)			1636	2155	2744	3418	4191	5078	6094
	Power Input	(W)			1235	1384	1534	1685	1835	1983	2127
	Amps	(A)			6.34	7.06	7.77	8.47	9.14	9.79	10.4
60	Refrig. Capacity	(Watt)				1666	2148	2696	3324	4047	4880
	Power Input	(W)				1487	1666	1850	2039	2231	2424
	Amps	(A)				7.44	8.34	9.23	10.1	10.9	11.8

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50HZ R-449A*

Condensing	Evaporating	(°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity	(Watt)	1378	1872	2445	3113	3888	4787	5823	7011	8366
	Power Input	(W)	880	985	1084	1177	1261	1335	1398	1449	1487
	Amps	(A)	4.82	5.24	5.64	6.04	6.43	6.79	7.13	7.45	7.74
40	Refrig. Capacity	(Watt)		1528	2051	2648	3335	4126	5035	6077	7267
	Power Input	(W)		1041	1165	1287	1406	1520	1629	1730	1822
	Amps	(A)		5.47	6.03	6.58	7.12	7.64	8.14	8.62	9.06
50	Refrig. Capacity	(Watt)			1636	2155	2744	3418	4191	5078	6094
	Power Input	(W)			1235	1384	1534	1685	1835	1983	2127
	Amps	(A)			6.34	7.06	7.77	8.47	9.14	9.79	10.4
60	Refrig. Capacity	(Watt)				1666	2148	2696	3324	4047	4880
	Power Input	(W)				1487	1666	1850	2039	2231	2424
	Amps	(A)				7.44	8.34	9.23	10.1	10.9	11.8

* 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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Performances are given at rating conditions EN12900
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)	1246	1657	2143	2716	3388	4172	5081	6125	7318
	Power Input	(W)	777	867	952	1030	1103	1170	1230	1285	1334
	Amps	(A)	4.54	4.91	5.27	5.62	5.96	6.29	6.61	6.92	7.22
40	Refrig. Capacity	(Watt)		1374	1814	2325	2918	3606	4400	5314	6358
	Power Input	(W)		912	1021	1125	1225	1320	1411	1497	1579
	Amps	(A)		5.11	5.55	5.98	6.4	6.81	7.22	7.62	8.02
50	Refrig. Capacity	(Watt)			1457	1903	2414	3003	3682	4462	5356
	Power Input	(W)			1065	1195	1321	1444	1564	1681	1796
	Amps	(A)			5.74	6.28	6.83	7.37	7.9	8.43	8.96
60	Refrig. Capacity	(Watt)				1465	1892	2380	2940	3584	4326
	Power Input	(W)				1247	1399	1550	1699	1846	1992
	Amps	(A)				6.46	7.16	7.86	8.55	9.25	9.94

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50HZ R-455A



Condensing	Evaporating	(°C)	-25	-20	-15	-10	-5	0	5	10	15
30	Refrig. Capacity	(Watt)	1277	1711	2231	2851	3586	4449	5456	6621	7958
	Power Input	(W)	819	903	989	1075	1156	1228	1288	1333	1357
	Amps	(A)	4.74	5.12	5.49	5.84	6.16	6.45	6.71	6.92	7.09
40	Refrig. Capacity	(Watt)		1421	1887	2435	3079	3834	4714	5734	6907
	Power Input	(W)		946	1048	1156	1266	1374	1476	1570	1651
	Amps	(A)		5.32	5.81	6.29	6.75	7.19	7.61	7.99	8.33
50	Refrig. Capacity	(Watt)			1520	1989	2536	3176	3923	4791	5795
	Power Input	(W)			1094	1217	1348	1485	1623	1759	1889
	Amps	(A)			5.97	6.6	7.21	7.82	8.4	8.96	9.5
60	Refrig. Capacity	(Watt)				1539	1983	2501	3109	3819	4647
	Power Input	(W)				1273	1420	1578	1744	1915	2087
	Amps	(A)				6.83	7.62	8.4	9.17	9.93	10.7