



tecumseh

AE4425Z-FZ1A

220 - 240V 1~ 50 Hz

Compressor

CBP/HBP (M-HBP)

R-404A

Voltage Code : FZ

Refrigerant	Frequency	Nominal Cooling Capacity (*)		Sound Power ISO3745 / ISO 3743-1
		Watts	BTU/h	
R-452A	50HZ	455	1553	
R-404A	50HZ	324	1104	
R-448A	50HZ	485	1655	
R-449A	50HZ	485	1653	

(*) Operating conditions ARI 520-90 : Dew / T°Cond. 120°F / T°Evap 20°F / T°Evaporating 20°F / T°Superheat 32°F



*Non-contractual picture

Dimensions

Weight	9.8 kg (22 lb)
Length	198 mm (7.8 in)
Width	161 mm (6.3 in)
Height	207 mm (8.2 in)
Ø Suction Tube	1/4 in (6.35mm)
Ø Discharge Tube	3/16 in (4.76mm)

Certificates



General

Compressor Type	Reciprocating
Displacement (cc)	4.24
Horse Power	1/5
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)	265

Electrical

Motor Type	CSIR
Main Winding (Ohm)	10.37
Start Winding (Ohm)	30.06
Current RLA 50Hz (A)	1.89
Current LRA (A)	11
Start Capacitor	64-77 µF / 250 V
Overload	MRA58196-5587
- Time Check	6.5s - 16s / 7.4 A
- Open Temp / Close Temp	120 °C / 52 °C
Current Relay	RP4238
- Pick Up / Drop Out	5.8 A / 4.95 A

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



tecumseh

AE4425Z-FZ1A

220 - 240V 1~ 50 Hz

Performances are given at rating conditions ARI 520-90
Conditions DEW

Evaporating : 20 °F
Superheat : 32 °F

50HZ R-452A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	1033	1232	1516	1888	2349	2901	3546	4285
	Power Input	(W)	264	249	245	250	258	267	271	267
	Amps	(A)	3.01	3.1	3.21	3.31	3.4	3.47	3.5	3.48
105	Refrig. Capacity	(Btu/h)	883	1061	1313	1641	2046	2531	3096	3744
	Power Input	(W)	265	253	253	262	276	291	302	306
	Amps	(A)	3.02	3.12	3.25	3.38	3.5	3.61	3.69	3.73
120	Refrig. Capacity	(Btu/h)			1105	1387	1736	2152	2637	3193
	Power Input	(W)			261	274	293	314	331	343
	Amps	(A)			3.29	3.44	3.6	3.75	3.88	3.97
140	Refrig. Capacity	(Btu/h)				1017	1287	1610	1985	2416
	Power Input	(W)				288	313	340	365	385
	Amps	(A)				3.53	3.73	3.93	4.12	4.29

© 2025 Tecumseh Products Company

50HZ R-404A

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	409	704	1020	1373	1781	2266	2848	3552
	Power Input	(W)	133	160	181	198	210	217	220	217
	Amps	(A)	1.45	1.48	1.52	1.56	1.59	1.62	1.63	1.62
105	Refrig. Capacity	(Btu/h)	297	569	854	1167	1526	1950	2460	3079
	Power Input	(W)	138	168	193	214	230	242	249	252
	Amps	(A)	1.47	1.51	1.55	1.6	1.65	1.69	1.72	1.73
120	Refrig. Capacity	(Btu/h)		429	682	955	1264	1627	2065	2600
	Power Input	(W)		174	203	229	250	267	280	288
	Amps	(A)		1.52	1.59	1.65	1.71	1.77	1.82	1.85
140	Refrig. Capacity	(Btu/h)			449	665	906	1188	1528	1949
	Power Input	(W)			212	244	272	297	318	335
	Amps	(A)			1.6	1.69	1.79	1.87	1.96	2.02



tecumseh

AE4425Z-FZ1A

220 - 240V 1~ 50 Hz

Performances are given at rating conditions ARI 520-90
Conditions DEW

Evaporating : 20 °F
Superheat : 32 °F

50HZ R-448A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	1092	1300	1599	1989	2474	3053	3729	4503
	Power Input	(W)	252	237	234	238	247	255	259	255
	Amps	(A)	2.93	3.02	3.13	3.23	3.32	3.38	3.41	3.39
105	Refrig. Capacity	(Btu/h)		1126	1391	1737	2164	2673	3268	3948
	Power Input	(W)		241	241	250	264	278	288	292
	Amps	(A)		3.05	3.17	3.29	3.42	3.52	3.6	3.64
120	Refrig. Capacity	(Btu/h)			1180	1479	1848	2288	2800	3386
	Power Input	(W)			249	262	280	299	316	327
	Amps	(A)			3.2	3.36	3.51	3.66	3.78	3.87
140	Refrig. Capacity	(Btu/h)				1107	1397	1742	2143	2603
	Power Input	(W)				275	298	324	349	368
	Amps	(A)				3.44	3.64	3.83	4.02	4.18

© 2025 Tecumseh Products Company

50HZ R-449A*

Condensing	Evaporating	(°F)	-15	-5	5	15	25	35	45	55
90	Refrig. Capacity	(Btu/h)	1091	1299	1597	1988	2471	3050	3726	4499
	Power Input	(W)	252	237	234	238	247	255	259	255
	Amps	(A)	2.93	3.02	3.13	3.23	3.32	3.38	3.41	3.39
105	Refrig. Capacity	(Btu/h)		1125	1390	1735	2161	2671	3265	3945
	Power Input	(W)		241	241	250	264	278	288	292
	Amps	(A)		3.05	3.17	3.29	3.42	3.52	3.6	3.64
120	Refrig. Capacity	(Btu/h)			1178	1477	1846	2285	2797	3383
	Power Input	(W)			249	262	280	299	316	327
	Amps	(A)			3.2	3.36	3.51	3.66	3.78	3.87
140	Refrig. Capacity	(Btu/h)				1104	1394	1738	2139	2598
	Power Input	(W)				275	298	324	349	368
	Amps	(A)				3.44	3.64	3.83	4.02	4.18

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