



tecumseh

FH2480Z-XG1A

380-420V 3~ 50Hz / 460V 3~ 60 Hz

Compressor

LBP

R-452A / R-404A

Voltage Code : XG

Refrigerant	Frequency	Nominal Cooling Capacity (*)		Sound Power ISO3745 / ISO 3743-1
		Watts	BTU/h	
R-452A	50HZ / 60HZ	1065 / 1138	3631 / 3881	72 dBA
R-404A	50HZ / 60HZ	1190 / 1272	4057 / 4337	
R-448A	50HZ / 60HZ	932 / 996	3179 / 3398	
R-449A	50HZ / 60HZ	932 / 996	3179 / 3398	

(*) Operating conditions EN12900 : Dew / T°Cond. 40°C / T°Evap -35°C / T°Return gas temp. 20°C / T°Subcooling 0K



*Non-contractual picture

Dimensions

Weight	30.1 kg (66 lb)
Length	274 mm (10.8 in)
Width	288 mm (11.3 in)
Height	354 mm (13.9 in)
Ø Suction Tube	1-1/4 in (Rotolock)
Ø Discharge Tube	1-1/4 in (Rotolock)

Certificates



General

Compressor Type	Reciprocating
Displacement (cc)	54.3
Horse Power	2-1/2
Compressor Cooling	Fan
Evaporating Temp. Range	-40°C to -12.2°C (-40°F to 10°F)
Oil Type	P.O.E 32
Oil Charge (cc)	1140

Electrical

Motor Type	3PH
Main Winding (Ohm)	5.32
Current RLA 50Hz (A)	2.35
Current RLA 60Hz (A)	2.3
Current MCC (A)	6.35
Current LRA (A)	31
Overload	Internal
- Time Check	3.0-10s / 25 A
- Open Temp / Close Temp	105 °C / 69 °C

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



tecumseh

FH2480Z-XG1A

380-420V 3~ 50Hz / 460V 3~ 60 Hz

Performances are given at rating conditions EN12900
Conditions DEW

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

50HZ R-452A

Condensing	Evaporating (°C)	-40	-35	-30	-25	-20	-15	-10
30	Refrig. Capacity (Watt)	969	1440	2025	2737	3590	4599	5776
	Power Input (W)	778	960	1141	1317	1486	1643	1785
	Amps (A)	2.05	2.17	2.29	2.43	2.58	2.74	2.91
40	Refrig. Capacity (Watt)	646	1065	1581	2210	2964	3857	4903
	Power Input (W)	713	926	1145	1364	1581	1792	1993
	Amps (A)	1.97	2.13	2.31	2.49	2.69	2.89	3.11
50	Refrig. Capacity (Watt)			1133	1670	2316	3086	3994
	Power Input (W)			1097	1361	1627	1892	2154
	Amps (A)			2.25	2.49	2.73	2.99	3.26
60	Refrig. Capacity (Watt)				1132	1664	2303	3064
	Power Input (W)				1300	1617	1938	2260
	Amps (A)				2.41	2.71	3.02	3.33

© 2025 Tecumseh Products Company

50HZ R-404A

Condensing	Evaporating (°C)	-40	-35	-30	-25	-20	-15	-10
30	Refrig. Capacity (Watt)	1092	1579	2179	2905	3769	4784	5964
	Power Input (W)	851	1041	1228	1408	1579	1737	1877
	Amps (A)	2.25	2.35	2.47	2.59	2.74	2.89	3.06
40	Refrig. Capacity (Watt)	759	1190	1716	2351	3107	3998	5035
	Power Input (W)	798	1020	1245	1470	1690	1902	2103
	Amps (A)	2.2	2.35	2.51	2.69	2.87	3.07	3.28
50	Refrig. Capacity (Watt)		807	1252	1789	2430	3187	4075
	Power Input (W)		952	1216	1485	1755	2022	2283
	Amps (A)		2.29	2.5	2.72	2.95	3.19	3.45
60	Refrig. Capacity (Watt)			803	1235	1753	2370	3101
	Power Input (W)			1135	1449	1769	2092	2414
	Amps (A)			2.42	2.68	2.96	3.26	3.56



tecumseh

FH2480Z-XG1A

380-420V 3~ 50Hz / 460V 3~ 60 Hz

Performances are given at rating conditions EN12900
Conditions DEW

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

50HZ R-448A*

Condensing	Evaporating (°C)	-40	-35	-30	-25	-20	-15	-10
30	Refrig. Capacity (Watt)	826	1262	1809	2482	3298	4271	5417
	Power Input (W)	716	889	1063	1234	1398	1551	1689
	Amps (A)	1.89	2.01	2.14	2.27	2.42	2.58	2.75
40	Refrig. Capacity (Watt)		932	1422	2025	2757	3634	4671
	Power Input (W)		852	1062	1275	1487	1693	1890
	Amps (A)		1.96	2.14	2.33	2.53	2.73	2.95
50	Refrig. Capacity (Watt)			1028	1555	2199	2974	3896
	Power Input (W)			1013	1268	1528	1788	2045
	Amps (A)			2.08	2.32	2.57	2.83	3.09
60	Refrig. Capacity (Watt)				1091	1641	2309	3112
	Power Input (W)				1208	1516	1831	2148
	Amps (A)				2.23	2.54	2.85	3.17

© 2025 Tecumseh Products Company

50HZ R-449A*

Condensing	Evaporating (°C)	-40	-35	-30	-25	-20	-15	-10
30	Refrig. Capacity (Watt)	826	1262	1809	2482	3298	4271	5417
	Power Input (W)	716	889	1063	1234	1398	1551	1689
	Amps (A)	1.89	2.01	2.14	2.27	2.42	2.58	2.75
40	Refrig. Capacity (Watt)		932	1422	2025	2757	3634	4671
	Power Input (W)		852	1062	1275	1487	1693	1890
	Amps (A)		1.96	2.14	2.33	2.53	2.73	2.95
50	Refrig. Capacity (Watt)			1028	1555	2199	2974	3896
	Power Input (W)			1013	1268	1528	1788	2045
	Amps (A)			2.08	2.32	2.57	2.83	3.09
60	Refrig. Capacity (Watt)				1091	1641	2309	3112
	Power Input (W)				1208	1516	1831	2148
	Amps (A)				2.23	2.54	2.85	3.17

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



tecumseh

FH2480Z-XG1A

380-420V 3~ 50Hz / 460V 3~ 60 Hz

Performances are given at rating conditions EN12900
Conditions DEW

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

60HZ R-452A

Condensing	Evaporating (°C)	-40	-35	-30	-25	-20	-15	-10
30	Refrig. Capacity (Watt)	1036	1540	2165	2926	3838	4916	6174
	Power Input (W)	866	1068	1269	1466	1654	1828	1986
	Amps (A)	2.01	2.12	2.24	2.38	2.52	2.68	2.85
40	Refrig. Capacity (Watt)	690	1138	1691	2362	3168	4123	5241
	Power Input (W)	793	1031	1274	1518	1759	1994	2218
	Amps (A)	1.93	2.09	2.26	2.44	2.63	2.83	3.05
50	Refrig. Capacity (Watt)			1211	1785	2476	3299	4270
	Power Input (W)			1221	1514	1810	2106	2396
	Amps (A)			2.2	2.44	2.68	2.93	3.19
60	Refrig. Capacity (Watt)				1210	1778	2462	3276
	Power Input (W)				1447	1799	2156	2515
	Amps (A)				2.36	2.65	2.95	3.26

© 2025 Tecumseh Products Company

60HZ R-404A

Condensing	Evaporating (°C)	-40	-35	-30	-25	-20	-15	-10
30	Refrig. Capacity (Watt)	1168	1688	2330	3105	4029	5114	6375
	Power Input (W)	947	1158	1366	1567	1758	1933	2089
	Amps (A)	2.2	2.3	2.41	2.54	2.68	2.83	2.99
40	Refrig. Capacity (Watt)	811	1272	1835	2513	3322	4273	5382
	Power Input (W)	888	1135	1386	1636	1881	2117	2340
	Amps (A)	2.16	2.3	2.46	2.63	2.81	3.01	3.21
50	Refrig. Capacity (Watt)		862	1339	1912	2597	3407	4356
	Power Input (W)		1059	1353	1652	1952	2250	2540
	Amps (A)		2.24	2.44	2.66	2.89	3.13	3.38
60	Refrig. Capacity (Watt)			859	1320	1874	2534	3314
	Power Input (W)			1263	1612	1968	2327	2686
	Amps (A)			2.37	2.63	2.9	3.19	3.48



tecumseh

FH2480Z-XG1A

380-420V 3~ 50Hz / 460V 3~ 60 Hz

Performances are given at rating conditions EN12900
Conditions DEW

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

60HZ R-448A*

Condensing	Evaporating (°C)	-40	-35	-30	-25	-20	-15	-10
30	Refrig. Capacity (Watt)	883	1349	1934	2653	3525	4565	5791
	Power Input (W)	796	989	1183	1373	1555	1726	1879
	Amps (A)	1.85	1.96	2.09	2.23	2.37	2.53	2.69
40	Refrig. Capacity (Watt)		996	1520	2165	2947	3884	4993
	Power Input (W)		948	1182	1419	1654	1884	2103
	Amps (A)		1.92	2.1	2.28	2.47	2.68	2.89
50	Refrig. Capacity (Watt)			1099	1663	2351	3179	4165
	Power Input (W)			1127	1411	1700	1990	2275
	Amps (A)			2.03	2.27	2.51	2.77	3.03
60	Refrig. Capacity (Watt)				1166	1754	2469	3326
	Power Input (W)				1344	1687	2037	2390
	Amps (A)				2.19	2.48	2.79	3.1

© 2025 Tecumseh Products Company

60HZ R-449A*

Condensing	Evaporating (°C)	-40	-35	-30	-25	-20	-15	-10
30	Refrig. Capacity (Watt)	883	1349	1934	2653	3525	4565	5791
	Power Input (W)	796	989	1183	1373	1555	1726	1879
	Amps (A)	1.85	1.96	2.09	2.23	2.37	2.53	2.69
40	Refrig. Capacity (Watt)		996	1520	2165	2947	3884	4993
	Power Input (W)		948	1182	1419	1654	1884	2103
	Amps (A)		1.92	2.1	2.28	2.47	2.68	2.89
50	Refrig. Capacity (Watt)			1099	1663	2351	3179	4165
	Power Input (W)			1127	1411	1700	1990	2275
	Amps (A)			2.03	2.27	2.51	2.77	3.03
60	Refrig. Capacity (Watt)				1166	1754	2469	3326
	Power Input (W)				1344	1687	2037	2390
	Amps (A)				2.19	2.48	2.79	3.1

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