

COMPRESSOR DEFINITION

Designation	FMF T415Z
Nominal Voltage/Frequency	230 V 46-150 Hz
Engineering Number	513805024

A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-134a		
3 Nominal voltage and frequency	230 / 46-150	[V / Hz]	
4 Application type	LowMedium BackPressure LightCO (Hot Gas Defrost Not Allowed)		
4.1 Evaporating temperature range	-40°C to 5°C	(-40°F to 41°F)	
5 Motor type	BPM		
6 Starting torque	LST/HST - Low/High starting torque		
7 Expansion device	Capillary tube or Expansion valve		
8 Compressor cooling	Operating voltage range		
		50 Hz	60 Hz
8.1 LBP (32°C Ambient temperature)	-	-	-
8.2 LBP (43°C Ambient temperature)	-	-	-
8.3 HBP (32°C Ambient temperature)	-	-	-
8.4 HBP (43°C Ambient temperature)	-	-	-
9 Maximum condensing temperature			
9.1 Operating	14.2	[kgf/cm ²] (202 psig)	/ °C - °F
9.2 Peak	15.9	[kgf/cm ²] (226 psig)	/ °C - °F
10 Maximum winding temperature	130	[°C]	

B - MECHANICAL DATA

1 Commercial designation	1/2	[hp]
2 Displacement	14.77	[cm ³] (0.901 cu.in)
2.1 Bore [mm]	28.000	
2.2 Stroke [mm]	24.000	
3 Lubricant charge	430	[ml] (14.54 fl.oz.)
3.1 Lubricants approved		
3.2 Lubricants type/viscosity	ESTER / ISO10	
4 Weight (with oil charge)	10.87	[kg] (23.96 lb.)
5 Nitrogen charge	0.2 to 0.3	[kgf/cm ²] (2.84 to 4.27 psig)

C - ELECTRICAL DATA

1 Nominal Voltage/Frequency/Number of Phases	230 V 46-150 Hz 3~ (Three phase)	
2 Starting device type	Inverter	
2.1 Starting device	CF10B01 N 0.1 X	
3 Start capacitor	-	[µF(VAC minimum)]
4 Run capacitor	-	[µF(VAC minimum)]
5 Motor protection	CF10B01 N 0.1 XX A Y	
6 Start winding resistance	3.79	[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance	3.79	[Ω at 25°C (77°F)] +/- 8%
8 LRA - Locked rotor amperage (50/60 Hz)	7.00/7.00	[A] - Measured according to UL 984
9 FLA - Full load amperage L/MBP (50/60 Hz)	3.40/3.40	[A] - Measured according to UL 984
10 FLA - Full Load Amperage HBP (50/60 Hz)	3.40/3.40	[A] - Measured according to UL 984
11 Approval boards certification		

D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS: @100V1400RPM			ASHRAELBP32 Fan		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 54.4°C (129.92°F)	
Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
732	184	214	126	1.87	4.16	5.82	1.47	1.71

TEST CONDITIONS: @100V1600RPM			ASHRAELBP32 Fan		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 54.4°C (129.92°F)	
Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
827	208	242	141	2.07	4.70	5.88	1.48	1.72

TEST CONDITIONS: @100V3000RPM			ASHRAELBP32 Fan		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 54.4°C (129.92°F)	
Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
1426	359	418	255	3.59	8.10	5.59	1.41	1.64

TEST CONDITIONS: @100V3600RPM			ASHRAELBP32 Fan		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 54.4°C (129.92°F)	
Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
1636	412	479	302	4.21	9.29	5.41	1.36	1.59

TEST CONDITIONS: @100V4500RPM			ASHRAELBP32 Fan		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 54.4°C (129.92°F)	
Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
1886	475	553	379	5.16	10.71	4.98	1.25	1.46

E - PERFORMANCE - CURVES

TEST CONDITIONS: @100V1400RPM		ASHRAE32 Fan			(Condensing temperature 35°C (+95°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[W]	[A]
-40	(-40)	324	82	95	65	1.14	1.83	4.88	1.23	1.43
-35	(-31)	405	102	119	75	1.25	2.30	5.47	1.38	1.60
-30	(-22)	528	133	155	87	1.42	2.99	6.18	1.56	1.81
-25	(-13)	696	175	204	101	1.61	3.95	7.03	1.77	2.06
-20	(- 4)	917	231	269	116	1.83	5.21	8.02	2.02	2.35
-15	(+ 5)	1194	301	350	132	2.06	6.81	9.15	2.31	2.68
-10	(+14)	1534	386	449	148	2.29	8.78	10.45	2.63	3.06
-5	(+23)	1940	489	569	163	2.51	11.17	11.92	3.00	3.49
0	(+32)	2419	610	709	178	2.71	13.99	13.56	3.42	3.97
+5	(+41)	2976	750	872	192	2.87	17.31	15.40	3.88	4.51

TEST CONDITIONS: @100V1400RPM		ASHRAE32 Fan			(Condensing temperature 45°C (+113°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[W]	[A]
-40	(-40)	264	67	77	64	1.08	1.49	4.22	1.06	1.24
-35	(-31)	363	92	106	76	1.22	2.06	4.79	1.21	1.40
-30	(-22)	502	126	147	92	1.42	2.85	5.42	1.37	1.59
-25	(-13)	685	173	201	110	1.67	3.89	6.14	1.55	1.80
-20	(- 4)	918	231	269	130	1.95	5.22	6.94	1.75	2.03
-15	(+ 5)	1206	304	353	151	2.25	6.88	7.85	1.98	2.30
-10	(+14)	1554	392	455	174	2.57	8.90	8.86	2.23	2.59
-5	(+23)	1967	496	576	196	2.88	11.32	9.98	2.52	2.92
0	(+32)	2451	618	718	219	3.18	14.18	11.23	2.83	3.29
+5	(+41)	3011	759	882	241	3.46	17.51	12.62	3.18	3.70

TEST CONDITIONS: @100V1400RPM		ASHRAE32 Fan			(Condensing temperature 55°C (+131°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[W]	[A]
-40	(-40)	222	56	65	62	1.06	1.25	3.67	0.92	1.08
-35	(-31)	327	82	96	77	1.23	1.85	4.25	1.07	1.25
-30	(-22)	470	118	138	96	1.47	2.67	4.85	1.22	1.42
-25	(-13)	655	165	192	118	1.77	3.72	5.48	1.38	1.61
-20	(- 4)	889	224	261	143	2.11	5.06	6.14	1.55	1.80
-15	(+ 5)	1176	296	345	169	2.49	6.71	6.84	1.72	2.01
-10	(+14)	1521	383	446	198	2.88	8.71	7.60	1.92	2.23
-5	(+23)	1930	486	565	228	3.29	11.10	8.43	2.12	2.47
0	(+32)	2407	607	705	258	3.70	13.92	9.32	2.35	2.73
+5	(+41)	2958	745	867	289	4.10	17.20	10.30	2.60	3.02

E - PERFORMANCE - CURVES

TEST CONDITIONS: @100V1400RPM		ASHRAE32 Fan			(Condensing temperature 65°C (+149°F))					
Evaporating temperature	Cooling capacity (Qe)			Input power (We)	Electric current	Mass flow rate	Efficiency EER & COP			
	+/- 5%						+/- 5%	+/- 5%	+/- 7%	
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	196	49	57	61	1.09	1.10	3.12	0.79	0.92	
-35 (-31)	296	75	87	78	1.29	1.68	3.76	0.95	1.10	
-30 (-22)	432	109	126	100	1.56	2.45	4.36	1.10	1.28	
-25 (-13)	608	153	178	125	1.91	3.45	4.93	1.24	1.44	
-20 (- 4)	831	209	243	155	2.31	4.72	5.48	1.38	1.61	
-15 (+ 5)	1105	278	324	187	2.75	6.30	6.03	1.52	1.77	
-10 (+14)	1435	362	421	221	3.23	8.22	6.58	1.66	1.93	
-5 (+23)	1827	460	535	258	3.74	10.51	7.13	1.80	2.09	
0 (+32)	2286	576	670	296	4.25	13.22	7.71	1.94	2.26	
+5 (+41)	2817	710	825	335	4.76	16.38	8.32	2.10	2.44	

TEST CONDITIONS: @100V1600RPM		ASHRAE32 Fan			(Condensing temperature 35°C (+95°F))					
Evaporating temperature	Cooling capacity (Qe)			Input power (We)	Electric current	Mass flow rate	Efficiency EER & COP			
	+/- 5%						+/- 5%	+/- 5%	+/- 7%	
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	335	84	98	69	1.23	1.89	4.81	1.21	1.41	
-35 (-31)	464	117	136	86	1.42	2.63	5.41	1.36	1.59	
-30 (-22)	626	158	184	103	1.64	3.55	6.14	1.55	1.80	
-25 (-13)	828	209	243	120	1.87	4.70	7.00	1.76	2.05	
-20 (- 4)	1077	271	316	136	2.11	6.12	7.98	2.01	2.34	
-15 (+ 5)	1380	348	404	153	2.36	7.87	9.11	2.30	2.67	
-10 (+14)	1745	440	511	169	2.59	9.99	10.37	2.61	3.04	
-5 (+23)	2178	549	638	185	2.82	12.54	11.79	2.97	3.45	
0 (+32)	2688	677	788	201	3.02	15.55	13.36	3.37	3.91	
+5 (+41)	3281	827	962	217	3.19	19.08	15.08	3.80	4.42	

TEST CONDITIONS: @100V1600RPM		ASHRAE32 Fan			(Condensing temperature 45°C (+113°F))					
Evaporating temperature	Cooling capacity (Qe)			Input power (We)	Electric current	Mass flow rate	Efficiency EER & COP			
	+/- 5%						+/- 5%	+/- 5%	+/- 7%	
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	305	77	89	72	1.20	1.72	4.29	1.08	1.26	
-35 (-31)	435	110	127	89	1.40	2.46	4.86	1.22	1.42	
-30 (-22)	595	150	174	108	1.63	3.38	5.50	1.39	1.61	
-25 (-13)	793	200	232	127	1.90	4.50	6.22	1.57	1.82	
-20 (- 4)	1037	261	304	147	2.18	5.90	7.02	1.77	2.06	
-15 (+ 5)	1333	336	391	167	2.48	7.60	7.91	1.99	2.32	
-10 (+14)	1689	426	495	188	2.79	9.67	8.90	2.24	2.61	
-5 (+23)	2111	532	619	210	3.10	12.15	9.98	2.52	2.93	
0 (+32)	2608	657	764	234	3.40	15.08	11.17	2.81	3.27	
+5 (+41)	3187	803	934	258	3.68	18.53	12.47	3.14	3.65	

E - PERFORMANCE - CURVES

TEST CONDITIONS: @100V1600RPM		ASHRAE32 Fan			(Condensing temperature 55°C (+131°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[W]	[A]
-40	(-40)	269	68	79	72	1.20	1.52	3.79	0.96	1.11
-35	(-31)	397	100	116	91	1.41	2.25	4.37	1.10	1.28
-30	(-22)	555	140	163	111	1.66	3.15	4.96	1.25	1.45
-25	(-13)	748	189	219	133	1.96	4.25	5.59	1.41	1.64
-20	(- 4)	985	248	289	157	2.30	5.60	6.25	1.58	1.83
-15	(+ 5)	1272	321	373	182	2.67	7.26	6.95	1.75	2.04
-10	(+14)	1617	408	474	209	3.06	9.26	7.70	1.94	2.26
-5	(+23)	2028	511	594	238	3.46	11.67	8.49	2.14	2.49
0	(+32)	2510	633	736	269	3.87	14.52	9.34	2.35	2.74
+5	(+41)	3072	774	900	301	4.27	17.86	10.25	2.58	3.00

TEST CONDITIONS: @100V1600RPM		ASHRAE32 Fan			(Condensing temperature 65°C (+149°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[W]	[A]
-40	(-40)	227	57	67	70	1.21	1.28	3.25	0.82	0.95
-35	(-31)	353	89	104	90	1.43	2.00	3.87	0.98	1.13
-30	(-22)	506	128	148	113	1.72	2.87	4.47	1.13	1.31
-25	(-13)	693	175	203	138	2.07	3.94	5.04	1.27	1.48
-20	(- 4)	921	232	270	166	2.47	5.24	5.60	1.41	1.64
-15	(+ 5)	1198	302	351	197	2.91	6.83	6.16	1.55	1.80
-10	(+14)	1531	386	449	231	3.38	8.77	6.71	1.69	1.96
-5	(+23)	1928	486	565	267	3.89	11.09	7.25	1.83	2.13
0	(+32)	2394	603	702	306	4.41	13.84	7.81	1.97	2.29
+5	(+41)	2939	741	861	348	4.95	17.09	8.37	2.11	2.45

TEST CONDITIONS: @100V3000RPM		ASHRAE32 Fan			(Condensing temperature 35°C (+95°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[W]	[A]
-40	(-40)	568	143	166	128	2.06	3.21	4.42	1.11	1.30
-35	(-31)	779	196	228	155	2.35	4.42	5.04	1.27	1.48
-30	(-22)	1057	266	310	185	2.73	6.00	5.73	1.44	1.68
-25	(-13)	1410	355	413	218	3.18	8.01	6.47	1.63	1.90
-20	(- 4)	1848	466	542	254	3.70	10.51	7.26	1.83	2.13
-15	(+ 5)	2380	600	697	294	4.26	13.58	8.08	2.04	2.37
-10	(+14)	3015	760	884	337	4.85	17.27	8.94	2.25	2.62
-5	(+23)	3762	948	1102	383	5.46	21.65	9.81	2.47	2.87
0	(+32)	4630	1167	1357	433	6.08	26.78	10.69	2.70	3.13
+5	(+41)	5629	1418	1649	486	6.70	32.73	11.58	2.92	3.39

E - PERFORMANCE - CURVES

TEST CONDITIONS: @100V3000RPM		ASHRAE32 Fan			(Condensing temperature 45°C (+113°F))					
Evaporating temperature		Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	523	132	153	127	2.01	2.95	4.12	1.04	1.21
-35	(-31)	732	184	214	158	2.34	4.15	4.65	1.17	1.36
-30	(-22)	1007	254	295	192	2.77	5.71	5.25	1.32	1.54
-25	(-13)	1358	342	398	230	3.28	7.71	5.89	1.48	1.73
-20	(- 4)	1794	452	526	272	3.85	10.20	6.58	1.66	1.93
-15	(+ 5)	2324	586	681	318	4.48	13.26	7.29	1.84	2.14
-10	(+14)	2956	745	866	368	5.15	16.93	8.04	2.03	2.36
-5	(+23)	3701	933	1084	421	5.85	21.29	8.80	2.22	2.58
0	(+32)	4566	1151	1338	478	6.56	26.41	9.56	2.41	2.80
+5	(+41)	5562	1402	1630	539	7.28	32.34	10.32	2.60	3.03

TEST CONDITIONS: @100V3000RPM		ASHRAE32 Fan			(Condensing temperature 55°C (+131°F))					
Evaporating temperature		Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	463	117	136	123	1.95	2.61	3.78	0.95	1.11
-35	(-31)	667	168	196	158	2.33	3.78	4.25	1.07	1.24
-30	(-22)	938	236	275	197	2.81	5.32	4.77	1.20	1.40
-25	(-13)	1284	324	376	240	3.39	7.29	5.35	1.35	1.57
-20	(- 4)	1715	432	502	288	4.03	9.75	5.95	1.50	1.74
-15	(+ 5)	2239	564	656	339	4.74	12.77	6.59	1.66	1.93
-10	(+14)	2866	722	840	395	5.49	16.41	7.25	1.83	2.12
-5	(+23)	3605	908	1056	456	6.28	20.74	7.91	1.99	2.32
0	(+32)	4464	1125	1308	520	7.09	25.82	8.58	2.16	2.52
+5	(+41)	5454	1374	1598	589	7.91	31.71	9.25	2.33	2.71

TEST CONDITIONS: @100V3000RPM		ASHRAE32 Fan			(Condensing temperature 65°C (+149°F))					
Evaporating temperature		Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	390	98	114	116	1.88	2.20	3.37	0.85	0.99
-35	(-31)	587	148	172	155	2.31	3.33	3.80	0.96	1.11
-30	(-22)	849	214	249	198	2.85	4.82	4.28	1.08	1.25
-25	(-13)	1187	299	348	247	3.49	6.74	4.80	1.21	1.41
-20	(- 4)	1609	405	472	300	4.21	9.15	5.36	1.35	1.57
-15	(+ 5)	2125	535	623	358	5.00	12.12	5.94	1.50	1.74
-10	(+14)	2743	691	804	420	5.85	15.71	6.53	1.65	1.91
-5	(+23)	3474	875	1018	488	6.73	19.98	7.13	1.80	2.09
0	(+32)	4325	1090	1267	560	7.65	25.01	7.73	1.95	2.27
+5	(+41)	5306	1337	1555	637	8.57	30.85	8.32	2.10	2.44

E - PERFORMANCE - CURVES

TEST CONDITIONS: @100V3600RPM		ASHRAE32 Fan			(Condensing temperature 35°C (+95°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[W]	[A]
-40	(-40)	635	160	186	149	2.32	3.58	4.25	1.07	1.24
-35	(-31)	872	220	256	181	2.70	4.94	4.85	1.22	1.42
-30	(-22)	1192	300	349	218	3.19	6.76	5.47	1.38	1.60
-25	(-13)	1602	404	470	262	3.78	9.10	6.11	1.54	1.79
-20	(- 4)	2111	532	619	311	4.45	12.01	6.77	1.71	1.98
-15	(+ 5)	2727	687	799	366	5.19	15.56	7.45	1.88	2.18
-10	(+14)	3458	871	1013	424	5.98	19.81	8.15	2.05	2.39
-5	(+23)	4312	1087	1264	487	6.81	24.81	8.86	2.23	2.60
0	(+32)	5298	1335	1552	552	7.66	30.64	9.59	2.42	2.81
+5	(+41)	6423	1618	1882	621	8.52	37.35	10.34	2.61	3.03

TEST CONDITIONS: @100V3600RPM		ASHRAE32 Fan			(Condensing temperature 45°C (+113°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[W]	[A]
-40	(-40)	582	147	171	147	2.27	3.28	3.94	0.99	1.16
-35	(-31)	819	206	240	183	2.68	4.64	4.50	1.13	1.32
-30	(-22)	1138	287	333	225	3.22	6.46	5.06	1.28	1.48
-25	(-13)	1547	390	453	274	3.86	8.78	5.65	1.42	1.65
-20	(- 4)	2055	518	602	329	4.60	11.69	6.25	1.57	1.83
-15	(+ 5)	2669	673	782	389	5.41	15.23	6.86	1.73	2.01
-10	(+14)	3399	857	996	454	6.29	19.47	7.48	1.88	2.19
-5	(+23)	4252	1071	1246	525	7.22	24.46	8.11	2.04	2.38
0	(+32)	5236	1319	1534	599	8.18	30.28	8.75	2.20	2.56
+5	(+41)	6360	1603	1863	676	9.16	36.98	9.40	2.37	2.75

TEST CONDITIONS: @100V3600RPM		ASHRAE32 Fan			(Condensing temperature 55°C (+131°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[W]	[A]
-40	(-40)	511	129	150	142	2.22	2.88	3.59	0.91	1.05
-35	(-31)	746	188	218	181	2.67	4.23	4.11	1.04	1.21
-30	(-22)	1062	268	311	229	3.25	6.03	4.65	1.17	1.36
-25	(-13)	1470	370	431	283	3.96	8.34	5.19	1.31	1.52
-20	(- 4)	1976	498	579	344	4.76	11.24	5.73	1.44	1.68
-15	(+ 5)	2588	652	758	411	5.66	14.76	6.29	1.58	1.84
-10	(+14)	3316	836	972	484	6.63	18.99	6.85	1.73	2.01
-5	(+23)	4167	1050	1221	563	7.66	23.97	7.41	1.87	2.17
0	(+32)	5148	1297	1509	646	8.73	29.77	7.98	2.01	2.34
+5	(+41)	6270	1580	1837	733	9.83	36.45	8.55	2.15	2.50

E - PERFORMANCE - CURVES

TEST CONDITIONS: @100V3600RPM		ASHRAE32 Fan			(Condensing temperature 65°C (+149°F))					
Evaporating temperature	Cooling capacity (Qe)			Input power (We)	Electric current	Mass flow rate	Efficiency EER & COP			
	+/- 5%						+/- 5%	+/- 5%	+/- 7%	
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	420	106	123	133	2.17	2.37	3.18	0.80	0.93	
-35 (-31)	652	164	191	177	2.66	3.70	3.69	0.93	1.08	
-30 (-22)	966	243	283	230	3.30	5.48	4.19	1.06	1.23	
-25 (-13)	1371	345	402	290	4.07	7.78	4.71	1.19	1.38	
-20 (- 4)	1874	472	549	358	4.95	10.66	5.22	1.32	1.53	
-15 (+ 5)	2484	626	728	433	5.93	14.17	5.74	1.45	1.68	
-10 (+14)	3208	809	940	514	7.00	18.37	6.25	1.57	1.83	
-5 (+23)	4056	1022	1189	601	8.14	23.33	6.76	1.70	1.98	
0 (+32)	5035	1269	1475	694	9.33	29.11	7.27	1.83	2.13	
+5 (+41)	6153	1551	1803	791	10.56	35.77	7.77	1.96	2.28	

TEST CONDITIONS: @100V4500RPM		ASHRAE32 Fan			(Condensing temperature 35°C (+95°F))					
Evaporating temperature	Cooling capacity (Qe)			Input power (We)	Electric current	Mass flow rate	Efficiency EER & COP			
	+/- 5%						+/- 5%	+/- 5%	+/- 7%	
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	733	185	215	186	2.84	4.14	3.92	0.99	1.15	
-35 (-31)	975	246	286	220	3.23	5.52	4.47	1.13	1.31	
-30 (-22)	1350	340	395	270	3.86	7.65	5.01	1.26	1.47	
-25 (-13)	1847	465	541	332	4.67	10.48	5.54	1.40	1.62	
-20 (- 4)	2456	619	720	401	5.58	13.97	6.10	1.54	1.79	
-15 (+ 5)	3169	799	929	473	6.55	18.08	6.68	1.68	1.96	
-10 (+14)	3975	1002	1165	544	7.51	22.77	7.31	1.84	2.14	
-5 (+23)	4864	1226	1425	610	8.39	27.99	8.00	2.02	2.34	
0 (+32)	5827	1468	1707	667	9.15	33.70	8.76	2.21	2.57	
+5 (+41)	6853	1727	2008	711	9.70	39.85	9.61	2.42	2.82	

TEST CONDITIONS: @100V4500RPM		ASHRAE32 Fan			(Condensing temperature 45°C (+113°F))					
Evaporating temperature	Cooling capacity (Qe)			Input power (We)	Electric current	Mass flow rate	Efficiency EER & COP			
	+/- 5%						+/- 5%	+/- 5%	+/- 7%	
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	641	161	188	177	2.68	3.62	3.59	0.91	1.05	
-35 (-31)	894	225	262	219	3.15	5.07	4.12	1.04	1.21	
-30 (-22)	1276	322	374	276	3.86	7.24	4.63	1.17	1.36	
-25 (-13)	1777	448	521	344	4.73	10.09	5.14	1.30	1.51	
-20 (- 4)	2387	601	699	419	5.71	13.58	5.66	1.43	1.66	
-15 (+ 5)	3095	780	907	496	6.74	17.66	6.21	1.57	1.82	
-10 (+14)	3894	981	1141	572	7.76	22.30	6.80	1.71	1.99	
-5 (+23)	4771	1202	1398	643	8.70	27.45	7.44	1.87	2.18	
0 (+32)	5719	1441	1676	704	9.50	33.07	8.15	2.05	2.39	
+5 (+41)	6727	1695	1971	751	10.09	39.11	8.94	2.25	2.62	

E - PERFORMANCE - CURVES

TEST CONDITIONS: @100V4500RPM		ASHRAE32 Fan			(Condensing temperature 55°C (+131°F))					
Evaporating temperature		Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	551	139	161	166	2.56	3.11	3.29	0.83	0.96
-35	(-31)	808	204	237	215	3.10	4.58	3.80	0.96	1.11
-30	(-22)	1190	300	349	278	3.88	6.75	4.29	1.08	1.26
-25	(-13)	1686	425	494	352	4.82	9.57	4.77	1.20	1.40
-20	(- 4)	2288	577	670	433	5.87	13.02	5.25	1.32	1.54
-15	(+ 5)	2985	752	875	516	6.95	17.03	5.76	1.45	1.69
-10	(+14)	3768	950	1104	597	8.02	21.58	6.30	1.59	1.85
-5	(+23)	4627	1166	1356	672	9.01	26.62	6.90	1.74	2.02
0	(+32)	5551	1399	1627	737	9.86	32.10	7.55	1.90	2.21
+5	(+41)	6532	1646	1914	788	10.50	37.98	8.29	2.09	2.43

TEST CONDITIONS: @100V4500RPM		ASHRAE32 Fan			(Condensing temperature 65°C (+149°F))					
Evaporating temperature		Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	463	117	136	152	2.46	2.61	3.01	0.76	0.88
-35	(-31)	716	180	210	208	3.08	4.06	3.49	0.88	1.02
-30	(-22)	1090	275	319	278	3.92	6.18	3.96	1.00	1.16
-25	(-13)	1574	397	461	357	4.93	8.94	4.41	1.11	1.29
-20	(- 4)	2161	544	633	443	6.04	12.29	4.86	1.22	1.42
-15	(+ 5)	2838	715	832	531	7.18	16.19	5.33	1.34	1.56
-10	(+14)	3598	907	1054	617	8.31	20.60	5.82	1.47	1.71
-5	(+23)	4430	1116	1298	696	9.35	25.48	6.37	1.60	1.87
0	(+32)	5323	1341	1560	765	10.24	30.78	6.97	1.76	2.04
+5	(+41)	6270	1580	1837	819	10.92	36.45	7.64	1.93	2.24

F - EXTERNAL CHARACTERISTICS

1 Base plate	Universal EG/F/AMEM version 2		
2 Tray holder	No		
3 Connectors			
3.1 SUCTION	8.2 +0.12/-0.08	[mm]	(0.323" +0.005"/-0.003")
3.1.1 Material	Copper		
3.1.2 Shape	Straight		
3.2 DISCHARGE	6.5 +0.12/-0.08	[mm]	(0.256" +0.005"/-0.003")
3.2.1 Material	Copper		
3.2.2 Shape	Straight		
3.3 PROCESS	6.5 +0.12/-0.08	[mm]	(0.256" +0.005"/-0.003")
3.3.1 Material	Copper		
3.3.2 Shape	Straight		
3.4 Oil cooler (Copper)	No	[mm]	
3.5 Connector sealing	Rubber Plugs		