

COMPRESSOR DEFINITION

Designation	FMF T415Z
Nominal Voltage/Frequency	230 V 46-150 Hz
Engineering Number	513805022

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	Low-Medium Back Pressure (Light CO - Curves T.Evap -40/+5°C)		
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/Hight starting sorque		
7 Expantion 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 - ELETRICAL 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	CF10B04 W 0.0 X	
3 Start capacitor	-	[µF(VAC minimum)]
4 Run capacitor	-	[µF(VAC minimum)]
5 Motor protection	CF10B04 W 0.0 X	
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)	-	[A] - Measured according to UL 984
9 FLA - Full load amperage L/MBP (50/60 Hz)	-	[A] - Measured according to UL 984
10 FLA - Full Load Amperage HBP (50/60 Hz)	-	[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 +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
736	185	216	134	1.76	4.18	5.51	1.39	1.61

TEST CONDITIONS: @100V1600RPM			ASHRAELBP32 Fan		Evaporating temperature (Condensing temperature	-23.3°C (-9.94°F) 54.4°C (129.92°F)		
Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
832	210	244	149	1.95	4.73	5.58	1.41	1.64

TEST CONDITIONS: @100V3000RPM			ASHRAELBP32 Fan		Evaporating temperature (Condensing temperature	-23.3°C (-9.94°F) 54.4°C (129.92°F)		
Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
1440	363	422	267	3.37	8.18	5.40	1.36	1.58

TEST CONDITIONS: @100V3600RPM			ASHRAELBP32 Fan		Evaporating temperature (Condensing temperature	-23.3°C (-9.94°F) 54.4°C (129.92°F)		
Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
1647	415	483	323	4.03	9.36	5.09	1.28	1.49

TEST CONDITIONS: @100V4500RPM			ASHRAELBP32 Fan		Evaporating temperature (Condensing temperature	-23.3°C (-9.94°F) 54.4°C (129.92°F)		
Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
1900	479	557	396	4.91	10.80	4.80	1.21	1.41

E - PERFORMANCE - CURVES

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 35°C (+95°F))					
@100V1400RPM		Fan								
Evaporating temperature		Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE		
		+/- 5%			+/- 5%	+/- 5%	+/- 5%	+/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	342	86	100	66	1.09	1.93	5.01	1.26	1.47
-35	(-31)	402	101	118	75	1.15	2.28	5.45	1.37	1.60
-30	(-22)	516	130	151	87	1.29	2.93	6.09	1.53	1.78
-25	(-13)	687	173	201	101	1.47	3.90	6.91	1.74	2.02
-20	(- 4)	916	231	268	117	1.69	5.21	7.90	1.99	2.32
-15	(+ 5)	1203	303	352	133	1.92	6.86	9.06	2.28	2.66
-10	(+14)	1550	391	454	150	2.15	8.88	10.38	2.62	3.04
-5	(+23)	1959	494	574	166	2.34	11.28	11.84	2.98	3.47
0	(+32)	2431	613	712	181	2.50	14.06	13.44	3.39	3.94
+5	(+41)	2968	748	870	194	2.58	17.26	15.17	3.82	4.45

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 45°C (+113°F))					
@100V1400RPM		Fan								
Evaporating temperature		Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE		
		+/- 5%			+/- 5%	+/- 5%	+/- 5%	+/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	274	69	80	65	0.99	1.55	4.26	1.07	1.25
-35	(-31)	359	91	105	78	1.10	2.04	4.66	1.17	1.37
-30	(-22)	495	125	145	95	1.29	2.81	5.20	1.31	1.52
-25	(-13)	682	172	200	114	1.54	3.87	5.88	1.48	1.72
-20	(- 4)	922	232	270	135	1.83	5.24	6.68	1.68	1.96
-15	(+ 5)	1216	306	356	157	2.15	6.94	7.58	1.91	2.22
-10	(+14)	1566	395	459	180	2.47	8.97	8.59	2.17	2.52
-5	(+23)	1973	497	578	203	2.78	11.36	9.70	2.44	2.84
0	(+32)	2439	615	715	226	3.05	14.11	10.89	2.74	3.19
+5	(+41)	2965	747	869	247	3.26	17.24	12.15	3.06	3.56

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 55°C (+131°F))					
@100V1400RPM		Fan								
Evaporating temperature		Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE		
		+/- 5%			+/- 5%	+/- 5%	+/- 5%	+/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	228	58	67	63	0.97	1.29	3.76	0.95	1.10
-35	(-31)	327	82	96	80	1.11	1.85	4.17	1.05	1.22
-30	(-22)	470	119	138	100	1.33	2.67	4.67	1.18	1.37
-25	(-13)	661	167	194	124	1.63	3.76	5.25	1.32	1.54
-20	(- 4)	901	227	264	150	1.99	5.13	5.90	1.49	1.73
-15	(+ 5)	1190	300	349	177	2.37	6.79	6.61	1.66	1.94
-10	(+14)	1531	386	449	206	2.77	8.77	7.36	1.86	2.16
-5	(+23)	1925	485	564	235	3.16	11.07	8.16	2.06	2.39
0	(+32)	2372	598	695	265	3.53	13.72	8.98	2.26	2.63
+5	(+41)	2875	724	842	293	3.85	16.71	9.82	2.48	2.88

E - PERFORMANCE - CURVES

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 65°C (+149°F))					
@100V1400RPM		Fan								
Evaporating temperature	Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE			
	+/- 5%			+/- 5%	+/- 5%	+/- 5%	+/- 7%			
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	203	51	60	60	1.03	1.15	3.29	0.83	0.96	
-35 (-31)	303	76	89	80	1.18	1.72	3.77	0.95	1.10	
-30 (-22)	443	112	130	104	1.43	2.52	4.28	1.08	1.25	
-25 (-13)	626	158	184	131	1.76	3.56	4.81	1.21	1.41	
-20 (- 4)	853	215	250	161	2.15	4.85	5.35	1.35	1.57	
-15 (+ 5)	1126	284	330	194	2.58	6.42	5.91	1.49	1.73	
-10 (+14)	1445	364	423	228	3.04	8.27	6.46	1.63	1.89	
-5 (+23)	1813	457	531	263	3.50	10.43	6.99	1.76	2.05	
0 (+32)	2230	562	653	298	3.94	12.89	7.50	1.89	2.20	
+5 (+41)	2698	680	790	333	4.35	15.69	7.98	2.01	2.34	

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 35°C (+95°F))					
@100V1600RPM		Fan								
Evaporating temperature	Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE			
	+/- 5%			+/- 5%	+/- 5%	+/- 5%	+/- 7%			
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	336	85	99	68	1.17	1.90	4.86	1.22	1.42	
-35 (-31)	468	118	137	87	1.33	2.65	5.40	1.36	1.58	
-30 (-22)	632	159	185	105	1.52	3.58	6.10	1.54	1.79	
-25 (-13)	836	211	245	122	1.72	4.74	6.94	1.75	2.03	
-20 (- 4)	1086	274	318	138	1.94	6.18	7.93	2.00	2.32	
-15 (+ 5)	1391	350	408	154	2.16	7.93	9.06	2.28	2.66	
-10 (+14)	1756	443	515	171	2.38	10.06	10.32	2.60	3.02	
-5 (+23)	2190	552	642	187	2.59	12.60	11.70	2.95	3.43	
0 (+32)	2699	680	791	204	2.79	15.61	13.20	3.33	3.87	
+5 (+41)	3291	829	964	222	2.96	19.13	14.81	3.73	4.34	

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 45°C (+113°F))					
@100V1600RPM		Fan								
Evaporating temperature	Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE			
	+/- 5%			+/- 5%	+/- 5%	+/- 5%	+/- 7%			
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	313	79	92	73	1.11	1.77	4.33	1.09	1.27	
-35 (-31)	441	111	129	92	1.29	2.50	4.79	1.21	1.40	
-30 (-22)	600	151	176	112	1.51	3.40	5.36	1.35	1.57	
-25 (-13)	797	201	233	131	1.77	4.52	6.05	1.52	1.77	
-20 (- 4)	1038	262	304	151	2.04	5.91	6.83	1.72	2.00	
-15 (+ 5)	1332	336	390	172	2.34	7.60	7.71	1.94	2.26	
-10 (+14)	1685	425	494	193	2.65	9.65	8.67	2.19	2.54	
-5 (+23)	2105	530	617	216	2.96	12.11	9.72	2.45	2.85	
0 (+32)	2598	655	761	240	3.27	15.02	10.84	2.73	3.18	
+5 (+41)	3171	799	929	266	3.57	18.44	12.02	3.03	3.52	

E - PERFORMANCE - CURVES

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 55°C (+131°F))					
@100V1600RPM		Fan								
Evaporating temperature		Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE		
		+/- 5%			+/- 5%	+/- 5%	+/- 5%	+/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	278	70	81	73	1.11	1.56	3.87	0.98	1.13
-35	(-31)	404	102	118	94	1.30	2.29	4.31	1.09	1.26
-30	(-22)	559	141	164	116	1.54	3.17	4.82	1.21	1.41
-25	(-13)	750	189	220	138	1.83	4.26	5.40	1.36	1.58
-20	(- 4)	984	248	288	162	2.16	5.60	6.03	1.52	1.77
-15	(+ 5)	1269	320	372	188	2.52	7.24	6.71	1.69	1.97
-10	(+14)	1610	406	472	215	2.90	9.22	7.45	1.88	2.18
-5	(+23)	2017	508	591	245	3.30	11.60	8.21	2.07	2.41
0	(+32)	2494	629	731	277	3.72	14.43	9.01	2.27	2.64
+5	(+41)	3051	769	894	311	4.13	17.74	9.84	2.48	2.88

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 65°C (+149°F))					
@100V1600RPM		Fan								
Evaporating temperature		Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE		
		+/- 5%			+/- 5%	+/- 5%	+/- 5%	+/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	230	58	68	68	1.16	1.30	3.36	0.85	0.98
-35	(-31)	356	90	104	92	1.35	2.02	3.83	0.97	1.12
-30	(-22)	509	128	149	116	1.60	2.89	4.34	1.09	1.27
-25	(-13)	695	175	204	143	1.92	3.95	4.87	1.23	1.43
-20	(- 4)	923	233	271	172	2.28	5.25	5.41	1.36	1.59
-15	(+ 5)	1200	302	352	203	2.69	6.84	5.96	1.50	1.75
-10	(+14)	1532	386	449	237	3.14	8.77	6.52	1.64	1.91
-5	(+23)	1926	485	564	274	3.62	11.08	7.06	1.78	2.07
0	(+32)	2390	602	700	315	4.12	13.82	7.60	1.92	2.23
+5	(+41)	2931	739	859	358	4.64	17.04	8.12	2.05	2.38

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 35°C (+95°F))					
@100V3000RPM		Fan								
Evaporating temperature		Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE		
		+/- 5%			+/- 5%	+/- 5%	+/- 5%	+/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	561	141	164	124	1.97	3.17	4.49	1.13	1.32
-35	(-31)	788	199	231	157	2.31	4.47	5.03	1.27	1.47
-30	(-22)	1073	270	314	190	2.69	6.09	5.66	1.43	1.66
-25	(-13)	1427	359	418	225	3.10	8.10	6.37	1.60	1.87
-20	(- 4)	1861	469	545	261	3.55	10.59	7.14	1.80	2.09
-15	(+ 5)	2388	602	700	301	4.04	13.62	7.94	2.00	2.33
-10	(+14)	3019	761	885	344	4.57	17.29	8.77	2.21	2.57
-5	(+23)	3764	949	1103	392	5.15	21.66	9.60	2.42	2.81
0	(+32)	4636	1168	1358	445	5.78	26.81	10.42	2.62	3.05
+5	(+41)	5646	1423	1654	505	6.46	32.83	11.19	2.82	3.28

E - PERFORMANCE - CURVES

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 45°C (+113°F))					
@100V3000RPM		Fan								
Evaporating temperature		Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE		
		+/- 5%			+/- 5%	+/- 5%	+/- 5%	+/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	523	132	153	129	1.87	2.95	4.07	1.03	1.19
-35	(-31)	743	187	218	164	2.24	4.21	4.53	1.14	1.33
-30	(-22)	1022	258	300	201	2.66	5.80	5.09	1.28	1.49
-25	(-13)	1372	346	402	239	3.12	7.79	5.72	1.44	1.68
-20	(- 4)	1804	455	528	281	3.64	10.26	6.41	1.62	1.88
-15	(+ 5)	2329	587	682	326	4.20	13.28	7.13	1.80	2.09
-10	(+14)	2959	746	867	375	4.82	16.95	7.87	1.98	2.31
-5	(+23)	3706	934	1086	430	5.51	21.32	8.61	2.17	2.52
0	(+32)	4580	1154	1342	492	6.25	26.49	9.32	2.35	2.73
+5	(+41)	5594	1410	1639	560	7.06	32.52	10.00	2.52	2.93

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 55°C (+131°F))					
@100V3000RPM		Fan								
Evaporating temperature		Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE		
		+/- 5%			+/- 5%	+/- 5%	+/- 5%	+/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	470	118	138	126	1.80	2.65	3.75	0.94	1.10
-35	(-31)	680	171	199	165	2.20	3.86	4.14	1.04	1.21
-30	(-22)	951	240	279	205	2.66	5.40	4.63	1.17	1.36
-25	(-13)	1294	326	379	249	3.17	7.35	5.19	1.31	1.52
-20	(- 4)	1720	433	504	296	3.75	9.78	5.79	1.46	1.70
-15	(+ 5)	2241	565	657	347	4.39	12.78	6.43	1.62	1.89
-10	(+14)	2868	723	840	404	5.10	16.42	7.09	1.79	2.08
-5	(+23)	3613	911	1059	468	5.89	20.79	7.74	1.95	2.27
0	(+32)	4487	1131	1315	538	6.74	25.95	8.36	2.11	2.45
+5	(+41)	5502	1387	1612	616	7.68	31.99	8.93	2.25	2.62

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 65°C (+149°F))					
@100V3000RPM		Fan								
Evaporating temperature		Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE		
		+/- 5%			+/- 5%	+/- 5%	+/- 5%	+/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	402	101	118	114	1.76	2.27	3.48	0.88	1.02
-35	(-31)	600	151	176	158	2.18	3.41	3.82	0.96	1.12
-30	(-22)	860	217	252	204	2.68	4.88	4.23	1.07	1.24
-25	(-13)	1193	301	350	253	3.24	6.77	4.72	1.19	1.38
-20	(- 4)	1611	406	472	307	3.88	9.16	5.25	1.32	1.54
-15	(+ 5)	2125	536	623	366	4.60	12.12	5.81	1.47	1.70
-10	(+14)	2747	692	805	431	5.40	15.73	6.38	1.61	1.87
-5	(+23)	3488	879	1022	504	6.28	20.06	6.95	1.75	2.04
0	(+32)	4359	1098	1277	584	7.25	25.21	7.48	1.88	2.19
+5	(+41)	5372	1354	1574	673	8.32	31.23	7.96	2.01	2.33

E - PERFORMANCE - CURVES

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 35°C (+95°F))					
@100V3600RPM		Fan								
Evaporating temperature	Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE			
	+/- 5%			+/- 5%	+/- 5%	+/- 5%	+/- 7%			
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	625	157	183	145	2.30	3.52	4.29	1.08	1.26	
-35 (-31)	884	223	259	182	2.58	5.01	4.86	1.23	1.42	
-30 (-22)	1212	305	355	222	3.00	6.88	5.45	1.37	1.60	
-25 (-13)	1621	408	475	268	3.55	9.20	6.06	1.53	1.78	
-20 (- 4)	2122	535	622	318	4.21	12.07	6.68	1.68	1.96	
-15 (+ 5)	2727	687	799	373	4.95	15.56	7.31	1.84	2.14	
-10 (+14)	3450	869	1011	434	5.75	19.76	7.95	2.00	2.33	
-5 (+23)	4302	1084	1261	501	6.60	24.76	8.60	2.17	2.52	
0 (+32)	5296	1335	1552	573	7.46	30.63	9.24	2.33	2.71	
+5 (+41)	6444	1624	1888	651	8.31	37.47	9.89	2.49	2.90	

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 45°C (+113°F))					
@100V3600RPM		Fan								
Evaporating temperature	Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE			
	+/- 5%			+/- 5%	+/- 5%	+/- 5%	+/- 7%			
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	579	146	170	151	2.23	3.27	3.85	0.97	1.13	
-35 (-31)	833	210	244	191	2.56	4.72	4.36	1.10	1.28	
-30 (-22)	1156	291	339	236	3.05	6.56	4.90	1.24	1.44	
-25 (-13)	1562	394	458	286	3.66	8.87	5.46	1.37	1.60	
-20 (- 4)	2061	519	604	342	4.39	11.72	6.03	1.52	1.77	
-15 (+ 5)	2668	672	782	403	5.20	15.22	6.61	1.67	1.94	
-10 (+14)	3392	855	994	471	6.07	19.43	7.20	1.81	2.11	
-5 (+23)	4248	1071	1245	545	6.99	24.44	7.79	1.96	2.28	
0 (+32)	5247	1322	1538	625	7.93	30.35	8.39	2.11	2.46	
+5 (+41)	6402	1613	1876	712	8.86	37.22	8.99	2.27	2.63	

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 55°C (+131°F))					
@100V3600RPM		Fan								
Evaporating temperature	Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE			
	+/- 5%			+/- 5%	+/- 5%	+/- 5%	+/- 7%			
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	517	130	152	146	2.14	2.92	3.54	0.89	1.04	
-35 (-31)	762	192	223	191	2.54	4.32	4.00	1.01	1.17	
-30 (-22)	1078	272	316	241	3.09	6.12	4.48	1.13	1.31	
-25 (-13)	1478	372	433	297	3.77	8.39	4.98	1.25	1.46	
-20 (- 4)	1974	497	578	359	4.56	11.22	5.49	1.38	1.61	
-15 (+ 5)	2578	650	755	428	5.45	14.70	6.02	1.52	1.76	
-10 (+14)	3302	832	967	503	6.40	18.91	6.56	1.65	1.92	
-5 (+23)	4158	1048	1218	585	7.39	23.92	7.10	1.79	2.08	
0 (+32)	5160	1300	1512	675	8.41	29.84	7.65	1.93	2.24	
+5 (+41)	6318	1592	1851	771	9.43	36.73	8.20	2.07	2.40	

E - PERFORMANCE - CURVES

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 65°C (+149°F))					
@100V3600RPM		Fan								
Evaporating temperature	Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE			
	+/- 5%			+/- 5%	+/- 5%	+/- 5%	+/- 7%			
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	439	111	129	131	2.04	2.48	3.32	0.84	0.97	
-35 (-31)	672	169	197	181	2.50	3.81	3.72	0.94	1.09	
-30 (-22)	978	247	287	237	3.12	5.55	4.14	1.04	1.21	
-25 (-13)	1370	345	401	300	3.87	7.78	4.58	1.15	1.34	
-20 (- 4)	1859	468	545	370	4.74	10.57	5.04	1.27	1.48	
-15 (+ 5)	2457	619	720	446	5.70	14.01	5.51	1.39	1.61	
-10 (+14)	3178	801	931	530	6.73	18.19	5.99	1.51	1.76	
-5 (+23)	4032	1016	1182	622	7.80	23.20	6.48	1.63	1.90	
0 (+32)	5033	1268	1475	721	8.91	29.11	6.98	1.76	2.04	
+5 (+41)	6193	1561	1815	829	10.01	36.00	7.47	1.88	2.19	

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 35°C (+95°F))					
@100V4500RPM		Fan								
Evaporating temperature	Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE			
	+/- 5%			+/- 5%	+/- 5%	+/- 5%	+/- 7%			
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	722	182	212	183	2.78	4.08	3.94	0.99	1.15	
-35 (-31)	989	249	290	225	3.12	5.60	4.43	1.12	1.30	
-30 (-22)	1372	346	402	279	3.68	7.78	4.92	1.24	1.44	
-25 (-13)	1863	470	546	342	4.40	10.58	5.44	1.37	1.59	
-20 (- 4)	2456	619	720	410	5.23	13.97	5.97	1.50	1.75	
-15 (+ 5)	3143	792	921	480	6.10	17.94	6.54	1.65	1.92	
-10 (+14)	3918	987	1148	548	6.94	22.44	7.16	1.81	2.10	
-5 (+23)	4772	1202	1398	611	7.70	27.45	7.84	1.98	2.30	
0 (+32)	5698	1436	1670	665	8.32	32.95	8.59	2.16	2.52	
+5 (+41)	6690	1686	1960	707	8.74	38.91	9.42	2.37	2.76	

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 45°C (+113°F))					
@100V4500RPM		Fan								
Evaporating temperature	Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE			
	+/- 5%			+/- 5%	+/- 5%	+/- 5%	+/- 7%			
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	637	161	187	180	2.57	3.60	3.54	0.89	1.04	
-35 (-31)	914	230	268	229	3.01	5.18	4.02	1.01	1.18	
-30 (-22)	1304	329	382	290	3.67	7.39	4.50	1.13	1.32	
-25 (-13)	1801	454	528	359	4.48	10.22	4.98	1.26	1.46	
-20 (- 4)	2397	604	702	433	5.40	13.64	5.49	1.38	1.61	
-15 (+ 5)	3085	777	904	509	6.34	17.60	6.03	1.52	1.77	
-10 (+14)	3858	972	1130	583	7.26	22.10	6.61	1.67	1.94	
-5 (+23)	4709	1187	1380	651	8.10	27.09	7.25	1.83	2.12	
0 (+32)	5630	1419	1650	710	8.78	32.56	7.95	2.00	2.33	
+5 (+41)	6615	1667	1938	757	9.25	38.46	8.73	2.20	2.56	

E - PERFORMANCE - CURVES

TEST CONDITIONS: @100V4500RPM		ASHRAE32 Fan			(Condensing temperature 55°C (+131°F))					
Evaporating temperature		Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	554	140	162	170	2.40	3.13	3.26	0.82	0.96
-35	(-31)	830	209	243	226	2.93	4.70	3.71	0.94	1.09
-30	(-22)	1218	307	357	293	3.67	6.91	4.16	1.05	1.22
-25	(-13)	1709	431	501	368	4.56	9.71	4.61	1.16	1.35
-20	(- 4)	2298	579	674	449	5.55	13.08	5.08	1.28	1.49
-15	(+ 5)	2977	750	872	530	6.56	16.99	5.58	1.41	1.64
-10	(+14)	3739	942	1096	610	7.54	21.42	6.12	1.54	1.79
-5	(+23)	4576	1153	1341	683	8.43	26.33	6.71	1.69	1.96
0	(+32)	5482	1381	1606	748	9.17	31.70	7.35	1.85	2.15
+5	(+41)	6449	1625	1890	799	9.68	37.50	8.07	2.03	2.36

TEST CONDITIONS: @100V4500RPM		ASHRAE32 Fan			(Condensing temperature 65°C (+149°F))					
Evaporating temperature		Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-40	(-40)	474	119	139	152	2.28	2.67	3.07	0.77	0.90
-35	(-31)	739	186	216	215	2.88	4.19	3.49	0.88	1.02
-30	(-22)	1113	280	326	289	3.69	6.31	3.89	0.98	1.14
-25	(-13)	1590	401	466	370	4.65	9.02	4.30	1.08	1.26
-20	(- 4)	2161	545	633	457	5.69	12.29	4.73	1.19	1.39
-15	(+ 5)	2821	711	827	544	6.76	16.09	5.17	1.30	1.52
-10	(+14)	3561	897	1043	629	7.79	20.39	5.66	1.43	1.66
-5	(+23)	4374	1102	1282	708	8.72	25.16	6.18	1.56	1.81
0	(+32)	5254	1324	1540	777	9.49	30.38	6.76	1.70	1.98
+5	(+41)	6193	1561	1815	834	10.03	36.01	7.41	1.87	2.17

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		