

COMPRESSOR DEFINITION

Designation	FMF T415L
Nominal Voltage/Frequency	230 V 46-150 Hz
Engineering Number	513805023

A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	HFO		
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	15.72	[kgf/cm ²] (224 psig)	/ °C - °F
9.2 Peak	19.82	[kgf/cm ²] (282 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]
826	208	242	140	1.81	5.72	5.89	1.48	1.73

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]
931	235	273	157	2.02	6.45	5.92	1.49	1.73

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]
1604	404	470	286	3.57	11.11	5.60	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 +/- 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]
1812	457	531	346	4.28	12.55	5.23	1.32	1.53

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]
2057	518	603	422	5.14	14.25	4.87	1.23	1.43

E - PERFORMANCE - CURVES

TEST CONDITIONS: @100V1400RPM		ASHRAE32 Fan			(Condensing temperature 35°C (+95°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)	378	95	111	70	1.14	2.44	5.22	1.32	1.53
-35	(-31)	444	112	130	80	1.20	2.62	5.68	1.43	1.66
-30	(-22)	571	144	167	93	1.33	3.18	6.35	1.60	1.86
-25	(-13)	760	191	223	108	1.53	4.14	7.20	1.81	2.11
-20	(- 4)	1012	255	297	124	1.75	5.50	8.24	2.08	2.41
-15	(+ 5)	1330	335	390	141	1.99	7.28	9.45	2.38	2.77
-10	(+14)	1714	432	502	159	2.23	9.48	10.82	2.73	3.17
-5	(+23)	2166	546	635	176	2.44	12.12	12.35	3.11	3.62
0	(+32)	2688	677	788	192	2.59	15.21	14.01	3.53	4.11
+5	(+41)	3281	827	961	206	2.69	18.76	15.81	3.98	4.63

TEST CONDITIONS: @100V1400RPM		ASHRAE32 Fan			(Condensing temperature 45°C (+113°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)	303	76	89	69	1.03	2.29	4.44	1.12	1.30
-35	(-31)	398	100	117	83	1.14	2.96	4.86	1.22	1.42
-30	(-22)	547	138	160	101	1.34	4.01	5.43	1.37	1.59
-25	(-13)	754	190	221	121	1.60	5.43	6.13	1.55	1.80
-20	(- 4)	1019	257	299	143	1.91	7.26	6.96	1.75	2.04
-15	(+ 5)	1344	339	394	167	2.24	9.49	7.91	1.99	2.32
-10	(+14)	1731	436	507	191	2.57	12.14	8.96	2.26	2.63
-5	(+23)	2181	550	639	215	2.89	15.21	10.11	2.55	2.96
0	(+32)	2696	679	790	239	3.17	18.73	11.35	2.86	3.32
+5	(+41)	3277	826	960	262	3.39	22.69	12.66	3.19	3.71

TEST CONDITIONS: @100V1400RPM		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)	252	64	74	67	1.01	1.36	3.91	0.99	1.15
-35	(-31)	361	91	106	85	1.15	2.17	4.35	1.10	1.27
-30	(-22)	520	131	152	106	1.39	3.36	4.87	1.23	1.43
-25	(-13)	731	184	214	131	1.70	4.91	5.47	1.38	1.60
-20	(- 4)	996	251	292	159	2.07	6.86	6.15	1.55	1.80
-15	(+ 5)	1316	332	386	188	2.47	9.20	6.88	1.73	2.02
-10	(+14)	1692	427	496	219	2.88	11.95	7.67	1.93	2.25
-5	(+23)	2127	536	623	250	3.29	15.11	8.50	2.14	2.49
0	(+32)	2622	661	768	281	3.67	18.71	9.35	2.36	2.74
+5	(+41)	3177	801	931	311	4.00	22.75	10.23	2.58	3.00

E - PERFORMANCE - CURVES

TEST CONDITIONS: @100V1400RPM		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)	224	57	66	64	1.07	1.76	3.42	0.86	1.00	
-35 (-31)	334	84	98	85	1.22	2.38	3.92	0.99	1.15	
-30 (-22)	490	123	144	110	1.48	3.36	4.45	1.12	1.30	
-25 (-13)	692	174	203	139	1.83	4.71	5.01	1.26	1.47	
-20 (- 4)	943	238	276	171	2.23	6.43	5.58	1.41	1.64	
-15 (+ 5)	1245	314	365	205	2.69	8.54	6.16	1.55	1.80	
-10 (+14)	1598	403	468	241	3.16	11.04	6.73	1.70	1.97	
-5 (+23)	2004	505	587	278	3.64	13.96	7.29	1.84	2.13	
0 (+32)	2465	621	722	316	4.09	17.30	7.82	1.97	2.29	
+5 (+41)	2982	751	874	353	4.51	21.07	8.31	2.10	2.44	

TEST CONDITIONS: @100V1600RPM		ASHRAE32 Fan			(Condensing temperature 35°C (+95°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)	374	94	110	73	1.23	2.38	5.04	1.27	1.48	
-35 (-31)	520	131	152	93	1.39	3.05	5.60	1.41	1.64	
-30 (-22)	702	177	206	112	1.59	3.94	6.32	1.59	1.85	
-25 (-13)	929	234	272	130	1.80	5.11	7.20	1.81	2.11	
-20 (- 4)	1208	304	354	148	2.02	6.61	8.22	2.07	2.41	
-15 (+ 5)	1546	390	453	166	2.25	8.49	9.39	2.37	2.75	
-10 (+14)	1953	492	572	183	2.48	10.81	10.70	2.70	3.13	
-5 (+23)	2435	614	714	201	2.71	13.62	12.13	3.06	3.55	
0 (+32)	3001	756	879	219	2.91	16.97	13.68	3.45	4.01	
+5 (+41)	3658	922	1072	238	3.09	20.92	15.35	3.87	4.50	

TEST CONDITIONS: @100V1600RPM		ASHRAE32 Fan			(Condensing temperature 45°C (+113°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)	348	88	102	78	1.16	2.64	4.49	1.13	1.32	
-35 (-31)	490	124	144	99	1.35	3.63	4.97	1.25	1.46	
-30 (-22)	667	168	195	120	1.58	4.84	5.56	1.40	1.63	
-25 (-13)	886	223	260	141	1.84	6.35	6.27	1.58	1.84	
-20 (- 4)	1154	291	338	162	2.13	8.19	7.08	1.78	2.07	
-15 (+ 5)	1481	373	434	184	2.44	10.43	7.99	2.01	2.34	
-10 (+14)	1874	472	549	207	2.77	13.12	8.99	2.27	2.63	
-5 (+23)	2340	590	686	231	3.09	16.31	10.07	2.54	2.95	
0 (+32)	2888	728	846	257	3.42	20.05	11.23	2.83	3.29	
+5 (+41)	3525	888	1033	285	3.73	24.40	12.46	3.14	3.65	

E - PERFORMANCE - CURVES

TEST CONDITIONS: @100V1600RPM		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)	309	78	91	78	1.15	1.72	4.02	1.01	1.18	
-35 (-31)	449	113	132	101	1.35	2.75	4.47	1.13	1.31	
-30 (-22)	621	157	182	124	1.61	4.02	5.00	1.26	1.46	
-25 (-13)	834	210	244	148	1.91	5.60	5.59	1.41	1.64	
-20 (- 4)	1094	276	321	174	2.25	7.52	6.25	1.58	1.83	
-15 (+ 5)	1411	355	413	202	2.63	9.85	6.96	1.75	2.04	
-10 (+14)	1791	451	525	231	3.03	12.64	7.72	1.95	2.26	
-5 (+23)	2242	565	657	263	3.45	15.94	8.51	2.15	2.50	
0 (+32)	2773	699	813	297	3.88	19.81	9.34	2.35	2.74	
+5 (+41)	3392	855	994	333	4.32	24.30	10.20	2.57	2.99	

TEST CONDITIONS: @100V1600RPM		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)	257	65	75	73	1.21	2.00	3.49	0.88	1.02	
-35 (-31)	396	100	116	98	1.41	2.81	3.98	1.00	1.17	
-30 (-22)	566	143	166	125	1.68	3.88	4.50	1.13	1.32	
-25 (-13)	773	195	227	153	2.00	5.26	5.05	1.27	1.48	
-20 (- 4)	1027	259	301	184	2.39	7.00	5.61	1.41	1.64	
-15 (+ 5)	1334	336	391	218	2.81	9.15	6.18	1.56	1.81	
-10 (+14)	1703	429	499	255	3.28	11.78	6.75	1.70	1.98	
-5 (+23)	2141	540	627	294	3.78	14.93	7.32	1.85	2.15	
0 (+32)	2657	670	779	337	4.31	18.65	7.88	1.99	2.31	
+5 (+41)	3259	821	955	384	4.85	23.00	8.42	2.12	2.47	

TEST CONDITIONS: @100V3000RPM		ASHRAE32 Fan			(Condensing temperature 35°C (+95°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)	621	156	182	134	2.09	3.95	4.61	1.16	1.35	
-35 (-31)	872	220	255	170	2.45	5.11	5.15	1.30	1.51	
-30 (-22)	1186	299	348	205	2.85	6.66	5.80	1.46	1.70	
-25 (-13)	1577	398	462	242	3.28	8.68	6.53	1.64	1.91	
-20 (- 4)	2058	519	603	282	3.76	11.27	7.31	1.84	2.14	
-15 (+ 5)	2641	666	774	324	4.28	14.50	8.14	2.05	2.39	
-10 (+14)	3338	841	978	371	4.84	18.47	8.99	2.27	2.64	
-5 (+23)	4163	1049	1220	422	5.45	23.27	9.84	2.48	2.88	
0 (+32)	5128	1292	1502	480	6.12	28.99	10.68	2.69	3.13	
+5 (+41)	6245	1574	1830	545	6.84	35.72	11.47	2.89	3.36	

E - PERFORMANCE - CURVES

TEST CONDITIONS: @100V3000RPM		ASHRAE32 Fan			(Condensing temperature 45°C (+113°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)	579	146	170	139	1.98	4.40	4.17	1.05	1.22
-35	(-31)	822	207	241	177	2.37	6.09	4.65	1.17	1.36
-30	(-22)	1130	285	331	217	2.81	8.22	5.22	1.32	1.53
-25	(-13)	1517	382	445	258	3.30	10.88	5.87	1.48	1.72
-20	(- 4)	1995	503	584	303	3.85	14.16	6.57	1.66	1.93
-15	(+ 5)	2576	649	755	351	4.45	18.13	7.31	1.84	2.14
-10	(+14)	3273	825	959	405	5.11	22.91	8.07	2.03	2.36
-5	(+23)	4098	1033	1201	464	5.83	28.56	8.83	2.22	2.59
0	(+32)	5066	1277	1484	530	6.62	35.18	9.56	2.41	2.80
+5	(+41)	6187	1559	1813	604	7.48	42.86	10.25	2.58	3.00

TEST CONDITIONS: @100V3000RPM		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)	520	131	152	136	1.91	2.87	3.84	0.97	1.13
-35	(-31)	753	190	221	178	2.33	4.60	4.25	1.07	1.24
-30	(-22)	1052	265	308	221	2.81	6.82	4.75	1.20	1.39
-25	(-13)	1431	361	419	268	3.35	9.61	5.32	1.34	1.56
-20	(- 4)	1903	479	558	319	3.97	13.08	5.94	1.50	1.74
-15	(+ 5)	2479	625	726	375	4.65	17.31	6.60	1.66	1.93
-10	(+14)	3173	799	930	436	5.40	22.38	7.27	1.83	2.13
-5	(+23)	3996	1007	1171	504	6.24	28.39	7.93	2.00	2.32
0	(+32)	4963	1251	1454	580	7.14	35.43	8.57	2.16	2.51
+5	(+41)	6085	1534	1783	665	8.14	43.58	9.16	2.31	2.68

TEST CONDITIONS: @100V3000RPM		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)	445	112	130	123	1.86	3.46	3.57	0.90	1.05
-35	(-31)	664	167	195	170	2.30	4.72	3.91	0.99	1.15
-30	(-22)	951	240	279	220	2.83	6.54	4.34	1.09	1.27
-25	(-13)	1320	333	387	273	3.42	8.98	4.84	1.22	1.42
-20	(- 4)	1782	449	522	331	4.10	12.15	5.39	1.36	1.58
-15	(+ 5)	2351	592	689	395	4.87	16.13	5.96	1.50	1.75
-10	(+14)	3038	766	890	465	5.71	21.01	6.55	1.65	1.92
-5	(+23)	3857	972	1130	543	6.65	26.89	7.12	1.79	2.09
0	(+32)	4821	1215	1413	630	7.68	33.84	7.66	1.93	2.25
+5	(+41)	5941	1497	1741	726	8.80	41.95	8.15	2.05	2.39

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%						+/- 7%			
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	683	172	200	158	2.44	4.34	4.32	1.09	1.27	
-35 (-31)	968	244	284	197	2.74	5.67	4.90	1.23	1.44	
-30 (-22)	1327	334	389	241	3.18	7.44	5.49	1.38	1.61	
-25 (-13)	1774	447	520	291	3.77	9.76	6.11	1.54	1.79	
-20 (- 4)	2322	585	680	345	4.47	12.71	6.73	1.70	1.97	
-15 (+ 5)	2985	752	875	405	5.25	16.39	7.37	1.86	2.16	
-10 (+14)	3776	951	1106	472	6.10	20.90	8.01	2.02	2.35	
-5 (+23)	4708	1187	1380	544	7.00	26.33	8.66	2.18	2.54	
0 (+32)	5796	1461	1698	622	7.91	32.77	9.31	2.35	2.73	
+5 (+41)	7052	1777	2066	707	8.82	40.33	9.96	2.51	2.92	

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%						+/- 7%			
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	634	160	186	164	2.37	4.83	3.88	0.98	1.14	
-35 (-31)	912	230	267	207	2.72	6.77	4.40	1.11	1.29	
-30 (-22)	1266	319	371	256	3.24	9.21	4.94	1.25	1.45	
-25 (-13)	1709	431	501	310	3.89	12.26	5.50	1.39	1.61	
-20 (- 4)	2256	569	661	371	4.66	16.01	6.07	1.53	1.78	
-15 (+ 5)	2919	736	855	438	5.52	20.55	6.66	1.68	1.95	
-10 (+14)	3713	936	1088	511	6.44	25.98	7.26	1.83	2.13	
-5 (+23)	4649	1172	1362	592	7.41	32.39	7.86	1.98	2.30	
0 (+32)	5742	1447	1683	679	8.41	39.88	8.46	2.13	2.48	
+5 (+41)	7006	1765	2053	773	9.40	48.54	9.06	2.28	2.65	

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%						+/- 7%			
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	566	143	166	159	2.27	3.09	3.57	0.90	1.05	
-35 (-31)	834	210	244	207	2.69	5.08	4.03	1.02	1.18	
-30 (-22)	1180	297	346	261	3.27	7.64	4.51	1.14	1.32	
-25 (-13)	1618	408	474	322	4.00	10.87	5.02	1.26	1.47	
-20 (- 4)	2160	544	633	390	4.84	14.86	5.54	1.40	1.62	
-15 (+ 5)	2821	711	827	464	5.78	19.70	6.07	1.53	1.78	
-10 (+14)	3613	910	1059	546	6.78	25.49	6.61	1.67	1.94	
-5 (+23)	4550	1147	1333	636	7.84	32.33	7.16	1.80	2.10	
0 (+32)	5646	1423	1655	733	8.92	40.30	7.71	1.94	2.26	
+5 (+41)	6914	1742	2026	838	10.00	49.51	8.26	2.08	2.42	

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%						+/- 7%			
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	480	121	141	143	2.16	3.75	3.34	0.84	0.98	
-35 (-31)	735	185	215	197	2.65	5.24	3.75	0.94	1.10	
-30 (-22)	1071	270	314	257	3.31	7.36	4.17	1.05	1.22	
-25 (-13)	1499	378	439	326	4.11	10.20	4.62	1.16	1.35	
-20 (- 4)	2034	513	596	401	5.03	13.87	5.08	1.28	1.49	
-15 (+ 5)	2689	678	788	485	6.05	18.46	5.55	1.40	1.63	
-10 (+14)	3478	876	1019	576	7.14	24.06	6.04	1.52	1.77	
-5 (+23)	4413	1112	1293	675	8.28	30.76	6.53	1.65	1.91	
0 (+32)	5509	1388	1614	783	9.45	38.67	7.03	1.77	2.06	
+5 (+41)	6778	1708	1986	900	10.62	47.87	7.53	1.90	2.21	

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%						+/- 7%			
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	775	195	227	194	2.91	4.95	3.97	1.00	1.16	
-35 (-31)	1062	268	311	239	3.27	6.17	4.46	1.12	1.31	
-30 (-22)	1473	371	431	297	3.86	8.20	4.96	1.25	1.45	
-25 (-13)	2000	504	586	364	4.62	10.98	5.48	1.38	1.61	
-20 (- 4)	2636	664	773	437	5.49	14.48	6.02	1.52	1.76	
-15 (+ 5)	3374	850	989	511	6.40	18.64	6.60	1.66	1.93	
-10 (+14)	4205	1060	1232	584	7.28	23.42	7.22	1.82	2.12	
-5 (+23)	5122	1291	1501	651	8.08	28.76	7.90	1.99	2.32	
0 (+32)	6117	1541	1792	709	8.73	34.62	8.66	2.18	2.54	
+5 (+41)	7182	1810	2105	753	9.16	40.94	9.49	2.39	2.78	

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%						+/- 7%			
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	684	172	200	192	2.70	5.26	3.57	0.90	1.05	
-35 (-31)	981	247	287	244	3.16	7.28	4.05	1.02	1.19	
-30 (-22)	1400	353	410	308	3.85	10.14	4.53	1.14	1.33	
-25 (-13)	1933	487	566	382	4.70	13.78	5.02	1.27	1.47	
-20 (- 4)	2573	648	754	461	5.66	18.14	5.54	1.39	1.62	
-15 (+ 5)	3311	834	970	542	6.65	23.20	6.08	1.53	1.78	
-10 (+14)	4141	1044	1213	620	7.62	28.89	6.67	1.68	1.95	
-5 (+23)	5054	1274	1481	693	8.49	35.17	7.31	1.84	2.14	
0 (+32)	6044	1523	1771	756	9.21	41.98	8.01	2.02	2.35	
+5 (+41)	7101	1789	2081	806	9.70	49.29	8.80	2.22	2.58	

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)	595	150	174	181	2.52	3.27	3.29	0.83	0.96
-35	(-31)	891	225	261	240	3.08	5.46	3.74	0.94	1.10
-30	(-22)	1307	329	383	312	3.85	8.51	4.20	1.06	1.23
-25	(-13)	1835	462	538	392	4.79	12.36	4.65	1.17	1.36
-20	(- 4)	2467	622	723	478	5.82	16.97	5.13	1.29	1.50
-15	(+ 5)	3196	805	937	565	6.88	22.29	5.63	1.42	1.65
-10	(+14)	4014	1011	1176	649	7.91	28.26	6.17	1.55	1.81
-5	(+23)	4912	1238	1439	728	8.84	34.84	6.76	1.70	1.98
0	(+32)	5884	1483	1724	796	9.61	41.98	7.41	1.87	2.17
+5	(+41)	6922	1744	2028	851	10.16	49.64	8.13	2.05	2.38

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)	508	128	149	162	2.39	3.91	3.09	0.78	0.91
-35	(-31)	793	200	232	229	3.02	5.64	3.51	0.89	1.03
-30	(-22)	1195	301	350	307	3.87	8.25	3.93	0.99	1.15
-25	(-13)	1707	430	500	395	4.87	11.69	4.34	1.09	1.27
-20	(- 4)	2320	585	680	487	5.97	15.90	4.77	1.20	1.40
-15	(+ 5)	3028	763	887	580	7.08	20.85	5.22	1.31	1.53
-10	(+14)	3822	963	1120	670	8.16	26.47	5.70	1.44	1.67
-5	(+23)	4695	1183	1376	754	9.14	32.72	6.23	1.57	1.83
0	(+32)	5640	1421	1653	828	9.95	39.56	6.82	1.72	2.00
+5	(+41)	6648	1675	1948	888	10.53	46.93	7.47	1.88	2.19

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		