

### COMPRESSOR DEFINITION

Designation	VES F7C
Nominal Voltage/Frequency	230 V 32-150 Hz
Engineering Number	513907184

### A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-600a		
3 Nominal voltage and frequency	230 / 32-150	[ V / Hz ]	
4 Application type	Low-Medium Back Pressure (Fullmotion Compressors)		
4.1 Evaporating temperature range	-35°C to 0°C	(-31°F to 32°F)	
5 Motor type	BPM		
6 Starting torque	LST - Low Starting Torque		
7 Expansion device	Capillary tube		
8 Compressor cooling	Operating voltage range		
		50 Hz	60 Hz
8.1 LBP (32°C Ambient temperature)	Static	160 to 264 V	160 to 264 V
8.2 LBP (43°C Ambient temperature)	Static	160 to 264 V	160 to 264 V
8.3 HBP (32°C Ambient temperature)	-	-	-
8.4 HBP (43°C Ambient temperature)	-	-	-
9 Maximum condensing temperature			
9.1 Operating	6.9	[kgf/cm <sup>2</sup> ] (98 psig)	/ °C - °F
9.2 Peak	7.8	[kgf/cm <sup>2</sup> ] (111 psig)	/ °C - °F
10 Maximum winding temperature	130	[ °C ]	

### B - MECHANICAL DATA

1 Commercial designation	1/5	[hp]
2 Displacement	7.23	[cm <sup>3</sup> ] (0.441 cu.in)
2.1 Bore [mm]	24.000	
2.2 Stroke [mm]	16.000	
3 Lubricant charge	205	[ml] (6.93 fl.oz.)
3.1 Lubricants approved		
3.2 Lubricants type/viscosity	ALQUILB / ISO5	
4 Weight (with oil charge)	6.8	[kg] (14.99 lb.)
5 Nitrogen charge	-	[kgf/cm <sup>2</sup> ]

### C - ELETRICAL DATA

1 Nominal Voltage/Frequency/Number of Phases	230 V 31.7-150 Hz 3~ (Three phase)	
2 Starting device type	Inverter	
2.1 Starting device	VESF 2456 XXX X	
3 Start capacitor	-	[µF(VAC minimum)]
4 Run capacitor	-	[µF(VAC minimum)]
5 Motor protection	INVERTER VES 2456X	
6 Start winding resistance	9.30	[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance	9.30	[Ω at 25°C (77°F)] +/- 8%
8 LRA - Locked rotor amperage (32/150 Hz)	2.10	[A] - Measured according to UL 984
9 FLA - Full load amperage L/MBP (32/150 Hz)	-	[A] - Measured according to UL 984
10 FLA - Full Load Amperage HBP (32/150 Hz)	-	[A] - Measured according to UL 984
11 Approval boards certification	CCC - VDE	

### D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS: @220V950RPM			CECOMAFLBP Static		Evaporating temperature (Condensing temperature		-25°C (-13°F) 55°C (131°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]	
92	23	27	19	0.19	0.35	4.97	1.25	1.46	

TEST CONDITIONS: @220V1300RPM			CECOMAFLBP Static		Evaporating temperature (Condensing temperature		-25°C (-13°F) 55°C (131°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]	
130	33	38	25	0.23	0.50	5.16	1.30	1.51	

TEST CONDITIONS: @220V4000RPM			CECOMAFLBP Static		Evaporating temperature (Condensing temperature		-25°C (-13°F) 55°C (131°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]	
399	101	117	83	0.62	1.52	4.81	1.21	1.41	

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V950RPM		CECOMAF Static					(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]
-35	(-31)	66	17	19	12	0.16	0.21	5.44	1.37	1.59
-30	(-22)	97	24	28	14	0.17	0.31	6.74	1.70	1.97
-25	(-13)	133	33	39	17	0.18	0.43	8.03	2.02	2.35
-20	(- 4)	174	44	51	19	0.19	0.56	9.37	2.36	2.74
-15	(+ 5)	221	56	65	21	0.21	0.71	10.80	2.72	3.16
-10	(+14)	276	70	81	22	0.22	0.89	12.38	3.12	3.63
-5	(+23)	339	85	99	24	0.23	1.10	14.16	3.57	4.15
0	(+32)	411	104	120	25	0.24	1.33	16.18	4.08	4.74

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V950RPM		CECOMAF Static			(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]
-35	(-31)	53	13	16	12	0.15	0.19	4.47	1.13	1.31
-30	(-22)	80	20	23	15	0.16	0.28	5.43	1.37	1.59
-25	(-13)	111	28	32	17	0.18	0.38	6.36	1.60	1.86
-20	(- 4)	147	37	43	20	0.20	0.51	7.31	1.84	2.14
-15	(+ 5)	190	48	56	23	0.22	0.66	8.32	2.10	2.44
-10	(+14)	241	61	70	25	0.24	0.84	9.45	2.38	2.77
-5	(+23)	299	75	88	28	0.26	1.05	10.76	2.71	3.15
0	(+32)	366	92	107	30	0.27	1.29	12.28	3.09	3.60

TEST CONDITIONS: @220V950RPM		CECOMAF Static			(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]
-35	(-31)	41	10	12	11	0.15	0.16	3.64	0.92	1.07
-30	(-22)	63	16	18	15	0.17	0.24	4.38	1.10	1.28
-25	(-13)	90	23	26	18	0.19	0.34	5.06	1.28	1.48
-20	(- 4)	122	31	36	21	0.21	0.47	5.73	1.44	1.68
-15	(+ 5)	161	41	47	25	0.24	0.62	6.44	1.62	1.89
-10	(+14)	207	52	61	28	0.27	0.80	7.24	1.82	2.12
-5	(+23)	262	66	77	32	0.29	1.01	8.18	2.06	2.40
0	(+32)	325	82	95	35	0.31	1.25	9.31	2.35	2.73

TEST CONDITIONS: @220V1300RPM		CECOMAF Static			(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]
-35	(-31)	100	25	29	16	0.18	0.32	6.08	1.53	1.78
-30	(-22)	141	35	41	19	0.20	0.45	7.17	1.81	2.10
-25	(-13)	187	47	55	23	0.22	0.60	8.28	2.09	2.43
-20	(- 4)	241	61	71	25	0.24	0.77	9.50	2.39	2.78
-15	(+ 5)	307	77	90	28	0.27	0.99	10.89	2.74	3.19
-10	(+14)	386	97	113	31	0.29	1.24	12.54	3.16	3.67
-5	(+23)	480	121	141	33	0.30	1.55	14.51	3.66	4.25
0	(+32)	594	150	174	35	0.31	1.93	16.90	4.26	4.95

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V1300RPM		CECOMAF Static			(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]
-35	(-31)	75	19	22	17	0.18	0.26	4.58	1.15	1.34
-30	(-22)	112	28	33	20	0.20	0.39	5.50	1.39	1.61
-25	(-13)	153	39	45	24	0.22	0.53	6.39	1.61	1.87
-20	(- 4)	203	51	59	28	0.25	0.71	7.33	1.85	2.15
-15	(+ 5)	262	66	77	31	0.28	0.92	8.38	2.11	2.45
-10	(+14)	335	84	98	35	0.31	1.17	9.63	2.43	2.82
-5	(+23)	422	106	124	38	0.33	1.48	11.15	2.81	3.27
0	(+32)	527	133	155	41	0.34	1.86	13.03	3.28	3.82

TEST CONDITIONS: @220V1300RPM		CECOMAF Static			(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]
-35	(-31)	55	14	16	15	0.17	0.21	3.56	0.90	1.04
-30	(-22)	86	22	25	20	0.20	0.33	4.34	1.09	1.27
-25	(-13)	121	31	35	24	0.23	0.46	5.03	1.27	1.47
-20	(- 4)	163	41	48	29	0.26	0.62	5.71	1.44	1.67
-15	(+ 5)	215	54	63	33	0.29	0.82	6.45	1.62	1.89
-10	(+14)	279	70	82	38	0.32	1.07	7.33	1.85	2.15
-5	(+23)	358	90	105	42	0.35	1.38	8.42	2.12	2.47
0	(+32)	453	114	133	47	0.37	1.74	9.81	2.47	2.88

TEST CONDITIONS: @220V1600RPM		CECOMAF Static			(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]
-35	(-31)	123	31	36	21	0.21	0.39	5.89	1.48	1.73
-30	(-22)	170	43	50	24	0.24	0.54	6.98	1.76	2.04
-25	(-13)	227	57	66	28	0.26	0.73	8.12	2.05	2.38
-20	(- 4)	295	74	86	32	0.28	0.95	9.36	2.36	2.74
-15	(+ 5)	374	94	110	35	0.30	1.21	10.73	2.70	3.14
-10	(+14)	467	118	137	38	0.32	1.51	12.25	3.09	3.59
-5	(+23)	574	145	168	41	0.34	1.86	13.96	3.52	4.09
0	(+32)	695	175	204	43	0.36	2.26	15.91	4.01	4.66

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V1600RPM		CECOMAF Static			(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]
-35	(-31)	92	23	27	21	0.21	0.32	4.50	1.13	1.32
-30	(-22)	137	35	40	25	0.24	0.48	5.48	1.38	1.60
-25	(-13)	191	48	56	29	0.27	0.67	6.45	1.63	1.89
-20	(- 4)	255	64	75	34	0.30	0.89	7.47	1.88	2.19
-15	(+ 5)	330	83	97	39	0.33	1.15	8.55	2.15	2.50
-10	(+14)	417	105	122	43	0.36	1.46	9.73	2.45	2.85
-5	(+23)	516	130	151	47	0.40	1.81	11.05	2.78	3.24
0	(+32)	630	159	185	50	0.43	2.22	12.53	3.16	3.67

TEST CONDITIONS: @220V1600RPM		CECOMAF Static			(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]
-35	(-31)	68	17	20	19	0.20	0.26	3.53	0.89	1.04
-30	(-22)	108	27	32	25	0.24	0.41	4.40	1.11	1.29
-25	(-13)	157	40	46	30	0.27	0.60	5.21	1.31	1.53
-20	(- 4)	214	54	63	36	0.31	0.82	6.00	1.51	1.76
-15	(+ 5)	281	71	82	41	0.35	1.08	6.80	1.71	1.99
-10	(+14)	359	91	105	47	0.39	1.38	7.64	1.93	2.24
-5	(+23)	449	113	132	52	0.43	1.73	8.57	2.16	2.51
0	(+32)	551	139	161	57	0.48	2.13	9.60	2.42	2.81

TEST CONDITIONS: @220V2000RPM		CECOMAF Static			(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]
-35	(-31)	156	39	46	26	0.25	0.50	5.94	1.50	1.74
-30	(-22)	212	53	62	31	0.28	0.68	6.92	1.74	2.03
-25	(-13)	284	71	83	35	0.31	0.91	8.02	2.02	2.35
-20	(- 4)	371	93	109	40	0.35	1.19	9.26	2.33	2.71
-15	(+ 5)	476	120	140	45	0.38	1.53	10.68	2.69	3.13
-10	(+14)	601	152	176	49	0.41	1.94	12.30	3.10	3.60
-5	(+23)	748	188	219	53	0.43	2.42	14.15	3.57	4.15
0	(+32)	917	231	269	56	0.45	2.97	16.27	4.10	4.77

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V2000RPM		CECOMAF Static			(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]
-35	(-31)	126	32	37	26	0.24	0.44	4.81	1.21	1.41
-30	(-22)	178	45	52	32	0.28	0.62	5.61	1.41	1.65
-25	(-13)	241	61	71	37	0.32	0.84	6.46	1.63	1.89
-20	(- 4)	318	80	93	43	0.36	1.11	7.39	1.86	2.16
-15	(+ 5)	410	103	120	49	0.40	1.43	8.41	2.12	2.46
-10	(+14)	519	131	152	54	0.43	1.82	9.57	2.41	2.80
-5	(+23)	646	163	189	59	0.47	2.27	10.89	2.75	3.19
0	(+32)	793	200	232	64	0.50	2.79	12.41	3.13	3.64

TEST CONDITIONS: @220V2000RPM		CECOMAF Static			(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]
-35	(-31)	92	23	27	25	0.24	0.35	3.69	0.93	1.08
-30	(-22)	142	36	42	32	0.28	0.54	4.47	1.13	1.31
-25	(-13)	201	51	59	38	0.33	0.77	5.22	1.32	1.53
-20	(- 4)	271	68	80	45	0.38	1.04	5.98	1.51	1.75
-15	(+ 5)	354	89	104	52	0.43	1.35	6.77	1.71	1.98
-10	(+14)	450	113	132	59	0.48	1.73	7.62	1.92	2.23
-5	(+23)	562	142	165	66	0.52	2.16	8.56	2.16	2.51
0	(+32)	691	174	202	72	0.56	2.66	9.62	2.43	2.82

TEST CONDITIONS: @220V3000RPM		CECOMAF Static			(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]
-35	(-31)	226	57	66	39	0.33	0.72	5.72	1.44	1.68
-30	(-22)	314	79	92	47	0.39	1.00	6.62	1.67	1.94
-25	(-13)	424	107	124	56	0.44	1.36	7.63	1.92	2.24
-20	(- 4)	558	141	164	64	0.50	1.79	8.76	2.21	2.57
-15	(+ 5)	716	180	210	72	0.55	2.30	9.99	2.52	2.93
-10	(+14)	897	226	263	80	0.60	2.90	11.32	2.85	3.32
-5	(+23)	1104	278	323	86	0.65	3.57	12.73	3.21	3.73
0	(+32)	1335	336	391	92	0.69	4.33	14.21	3.58	4.17

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V3000RPM		CECOMAF Static			(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]
-35	(-31)	186	47	55	40	0.34	0.65	4.66	1.17	1.37
-30	(-22)	261	66	77	48	0.40	0.91	5.39	1.36	1.58
-25	(-13)	359	90	105	58	0.46	1.25	6.21	1.56	1.82
-20	(- 4)	479	121	140	67	0.52	1.67	7.11	1.79	2.08
-15	(+ 5)	623	157	182	77	0.59	2.17	8.09	2.04	2.37
-10	(+14)	790	199	231	87	0.65	2.77	9.13	2.30	2.68
-5	(+23)	981	247	288	96	0.71	3.45	10.24	2.58	3.00
0	(+32)	1198	302	351	105	0.77	4.21	11.39	2.87	3.34

TEST CONDITIONS: @220V3000RPM		CECOMAF Static			(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]
-35	(-31)	153	39	45	40	0.35	0.58	3.84	0.97	1.12
-30	(-22)	216	54	63	49	0.41	0.82	4.45	1.12	1.30
-25	(-13)	301	76	88	59	0.48	1.15	5.13	1.29	1.50
-20	(- 4)	409	103	120	70	0.55	1.56	5.86	1.48	1.72
-15	(+ 5)	539	136	158	81	0.62	2.06	6.64	1.67	1.94
-10	(+14)	692	174	203	93	0.70	2.66	7.46	1.88	2.18
-5	(+23)	870	219	255	105	0.78	3.35	8.31	2.09	2.43
0	(+32)	1071	270	314	116	0.86	4.13	9.18	2.31	2.69

TEST CONDITIONS: @220V4000RPM		CECOMAF Static			(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]
-35	(-31)	294	74	86	54	0.44	0.94	5.45	1.37	1.60
-30	(-22)	399	101	117	64	0.51	1.28	6.26	1.58	1.83
-25	(-13)	533	134	156	74	0.58	1.71	7.17	1.81	2.10
-20	(- 4)	698	176	204	85	0.65	2.24	8.19	2.06	2.40
-15	(+ 5)	897	226	263	96	0.73	2.89	9.33	2.35	2.73
-10	(+14)	1133	286	332	107	0.80	3.65	10.61	2.67	3.11
-5	(+23)	1409	355	413	117	0.87	4.56	12.05	3.04	3.53
0	(+32)	1727	435	506	127	0.93	5.61	13.64	3.44	4.00

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V4000RPM		CECOMAF Static			(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]
-35	(-31)	258	65	76	56	0.45	0.89	4.59	1.16	1.34
-30	(-22)	351	88	103	67	0.52	1.22	5.27	1.33	1.54
-25	(-13)	467	118	137	78	0.60	1.63	6.01	1.51	1.76
-20	(- 4)	610	154	179	89	0.68	2.13	6.83	1.72	2.00
-15	(+ 5)	782	197	229	101	0.76	2.73	7.74	1.95	2.27
-10	(+14)	985	248	289	112	0.84	3.45	8.75	2.21	2.56
-5	(+23)	1223	308	358	124	0.92	4.29	9.88	2.49	2.89
0	(+32)	1497	377	439	134	0.99	5.27	11.14	2.81	3.26

TEST CONDITIONS: @220V4000RPM		CECOMAF Static			(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]
-35	(-31)	211	53	62	56	0.44	0.80	3.73	0.94	1.09
-30	(-22)	295	74	86	68	0.52	1.12	4.32	1.09	1.27
-25	(-13)	397	100	116	80	0.61	1.52	4.94	1.25	1.45
-20	(- 4)	521	131	153	93	0.70	1.99	5.61	1.41	1.64
-15	(+ 5)	668	168	196	106	0.80	2.56	6.33	1.60	1.86
-10	(+14)	842	212	247	118	0.89	3.23	7.13	1.80	2.09
-5	(+23)	1044	263	306	130	0.98	4.02	8.00	2.02	2.35
0	(+32)	1278	322	375	142	1.06	4.93	8.97	2.26	2.63



### F - EXTERNAL CHARACTERISTICS

1 Base plate	Universal VES		
2 Tray holder	Yes		
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	Slanted 45° up + 15° to Back		
3.2 DISCHARGE	4.9 +0.10/-0.05	[mm]	(0.193" +0.004"/-0.002")
3.2.1 Material	Copper		
3.2.2 Shape	Slanted 47° up + 24° to Back		
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	Slanted 47° up + 59° to Back		
3.4 Oil cooler (Copper)	No	[mm]	
3.5 Connector sealing	Rubber Plugs		