

### COMPRESSOR DEFINITION

Designation	VES F9C
Nominal Voltage/Frequency	230 V 32-150 Hz
Engineering Number	513907253

### 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	9.04	[cm <sup>3</sup> ] (0.552 cu.in)
2.1 Bore [mm]	24.000	
2.2 Stroke [mm]	20.000	
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)	6.57	[kg] (14.48 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]	
119	30	35	23	0.23	0.45	5.09	1.28	1.49	

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]	
167	42	49	32	0.29	0.64	5.19	1.31	1.52	

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]	
491	124	144	102	0.77	1.87	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)	96	24	28	15	0.17	0.31	6.18	1.56	1.81
-30	(-22)	130	33	38	18	0.19	0.42	7.11	1.79	2.08
-25	(-13)	171	43	50	21	0.21	0.55	8.15	2.05	2.39
-20	(- 4)	221	56	65	24	0.23	0.71	9.34	2.35	2.74
-15	(+ 5)	281	71	82	26	0.24	0.90	10.72	2.70	3.14
-10	(+14)	352	89	103	29	0.26	1.14	12.35	3.11	3.62
-5	(+23)	436	110	128	30	0.28	1.41	14.27	3.60	4.18
0	(+32)	534	134	156	32	0.30	1.73	16.53	4.16	4.84

### 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)	78	20	23	16	0.17	0.27	4.91	1.24	1.44
-30	(-22)	108	27	32	19	0.20	0.38	5.64	1.42	1.65
-25	(-13)	145	37	43	23	0.22	0.51	6.39	1.61	1.87
-20	(- 4)	190	48	56	26	0.24	0.66	7.22	1.82	2.12
-15	(+ 5)	245	62	72	30	0.26	0.85	8.17	2.06	2.39
-10	(+14)	310	78	91	33	0.28	1.09	9.29	2.34	2.72
-5	(+23)	388	98	114	37	0.31	1.36	10.62	2.68	3.11
0	(+32)	479	121	140	40	0.34	1.69	12.22	3.08	3.58

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)	58	15	17	16	0.17	0.22	3.60	0.91	1.06
-30	(-22)	85	21	25	20	0.20	0.32	4.29	1.08	1.26
-25	(-13)	117	30	34	24	0.22	0.45	4.94	1.24	1.45
-20	(- 4)	158	40	46	28	0.25	0.60	5.58	1.41	1.63
-15	(+ 5)	207	52	61	33	0.28	0.79	6.26	1.58	1.84
-10	(+14)	267	67	78	38	0.31	1.03	7.04	1.77	2.06
-5	(+23)	339	86	99	43	0.34	1.31	7.96	2.01	2.33
0	(+32)	425	107	124	47	0.38	1.64	9.06	2.28	2.66

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)	135	34	39	21	0.20	0.43	6.26	1.58	1.83
-30	(-22)	181	46	53	25	0.22	0.58	7.20	1.81	2.11
-25	(-13)	238	60	70	29	0.25	0.76	8.25	2.08	2.42
-20	(- 4)	307	77	90	32	0.27	0.99	9.46	2.38	2.77
-15	(+ 5)	390	98	114	36	0.30	1.25	10.84	2.73	3.17
-10	(+14)	488	123	143	39	0.33	1.57	12.41	3.13	3.64
-5	(+23)	603	152	177	42	0.36	1.95	14.22	3.58	4.17
0	(+32)	736	185	216	45	0.39	2.39	16.27	4.10	4.77

### 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)	110	28	32	22	0.21	0.38	5.03	1.27	1.47
-30	(-22)	153	38	45	26	0.24	0.53	5.79	1.46	1.70
-25	(-13)	204	52	60	31	0.27	0.71	6.59	1.66	1.93
-20	(- 4)	267	67	78	36	0.30	0.93	7.48	1.88	2.19
-15	(+ 5)	342	86	100	40	0.33	1.19	8.47	2.13	2.48
-10	(+14)	430	108	126	45	0.36	1.51	9.59	2.42	2.81
-5	(+23)	534	135	156	49	0.40	1.87	10.87	2.74	3.18
0	(+32)	654	165	192	54	0.44	2.30	12.33	3.11	3.61

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)	85	21	25	22	0.21	0.32	3.91	0.98	1.15
-30	(-22)	123	31	36	27	0.25	0.47	4.58	1.15	1.34
-25	(-13)	169	43	50	32	0.28	0.64	5.24	1.32	1.54
-20	(- 4)	224	56	66	38	0.32	0.86	5.91	1.49	1.73
-15	(+ 5)	290	73	85	44	0.36	1.11	6.61	1.67	1.94
-10	(+14)	368	93	108	50	0.40	1.41	7.37	1.86	2.16
-5	(+23)	460	116	135	56	0.44	1.77	8.22	2.07	2.41
0	(+32)	567	143	166	62	0.49	2.19	9.19	2.32	2.69

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)	164	41	48	26	0.24	0.52	6.20	1.56	1.82
-30	(-22)	219	55	64	31	0.27	0.70	7.08	1.78	2.07
-25	(-13)	289	73	85	36	0.31	0.93	8.10	2.04	2.37
-20	(- 4)	375	94	110	40	0.34	1.20	9.29	2.34	2.72
-15	(+ 5)	478	120	140	45	0.37	1.54	10.66	2.69	3.12
-10	(+14)	599	151	176	49	0.40	1.93	12.21	3.08	3.58
-5	(+23)	740	187	217	53	0.42	2.39	13.97	3.52	4.09
0	(+32)	902	227	264	56	0.44	2.93	15.94	4.02	4.67

### 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)	139	35	41	27	0.25	0.48	5.11	1.29	1.50
-30	(-22)	189	48	55	33	0.28	0.66	5.78	1.46	1.70
-25	(-13)	251	63	74	38	0.32	0.87	6.55	1.65	1.92
-20	(- 4)	328	83	96	44	0.36	1.14	7.41	1.87	2.17
-15	(+ 5)	419	106	123	50	0.40	1.47	8.40	2.12	2.46
-10	(+14)	528	133	155	55	0.44	1.85	9.51	2.40	2.79
-5	(+23)	654	165	192	61	0.48	2.30	10.77	2.71	3.15
0	(+32)	799	201	234	66	0.51	2.81	12.18	3.07	3.57

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)	109	28	32	27	0.25	0.42	3.98	1.00	1.17
-30	(-22)	154	39	45	34	0.29	0.59	4.58	1.16	1.34
-25	(-13)	210	53	62	40	0.33	0.80	5.22	1.32	1.53
-20	(- 4)	279	70	82	47	0.38	1.07	5.91	1.49	1.73
-15	(+ 5)	361	91	106	54	0.43	1.38	6.65	1.67	1.95
-10	(+14)	457	115	134	61	0.48	1.76	7.45	1.88	2.18
-5	(+23)	570	144	167	68	0.53	2.19	8.35	2.10	2.45
0	(+32)	700	176	205	75	0.58	2.70	9.33	2.35	2.73

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)	207	52	61	33	0.29	0.66	6.17	1.55	1.81
-30	(-22)	274	69	80	39	0.33	0.88	7.01	1.77	2.05
-25	(-13)	358	90	105	45	0.37	1.15	7.97	2.01	2.33
-20	(- 4)	461	116	135	51	0.41	1.48	9.06	2.28	2.65
-15	(+ 5)	585	148	172	57	0.45	1.88	10.29	2.59	3.02
-10	(+14)	732	185	215	63	0.49	2.36	11.68	2.94	3.42
-5	(+23)	905	228	265	68	0.53	2.93	13.24	3.34	3.88
0	(+32)	1104	278	323	74	0.57	3.58	14.98	3.78	4.39

### 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)	175	44	51	35	0.30	0.61	5.07	1.28	1.49
-30	(-22)	239	60	70	42	0.34	0.83	5.76	1.45	1.69
-25	(-13)	317	80	93	49	0.39	1.11	6.52	1.64	1.91
-20	(- 4)	412	104	121	56	0.44	1.44	7.37	1.86	2.16
-15	(+ 5)	524	132	154	63	0.49	1.83	8.31	2.09	2.43
-10	(+14)	657	165	192	70	0.54	2.30	9.35	2.36	2.74
-5	(+23)	812	205	238	77	0.59	2.85	10.52	2.65	3.08
0	(+32)	991	250	290	84	0.64	3.49	11.82	2.98	3.46

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)	139	35	41	34	0.29	0.53	4.08	1.03	1.19
-30	(-22)	200	50	59	42	0.35	0.76	4.69	1.18	1.37
-25	(-13)	271	68	79	51	0.41	1.03	5.32	1.34	1.56
-20	(- 4)	356	90	104	60	0.47	1.36	5.99	1.51	1.75
-15	(+ 5)	457	115	134	68	0.54	1.75	6.70	1.69	1.96
-10	(+14)	574	145	168	77	0.60	2.21	7.47	1.88	2.19
-5	(+23)	712	179	209	86	0.67	2.74	8.31	2.09	2.43
0	(+32)	871	219	255	94	0.74	3.36	9.23	2.33	2.71

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)	302	76	88	52	0.43	0.97	5.80	1.46	1.70
-30	(-22)	413	104	121	61	0.50	1.33	6.72	1.69	1.97
-25	(-13)	544	137	159	71	0.57	1.75	7.66	1.93	2.24
-20	(- 4)	698	176	205	81	0.64	2.24	8.64	2.18	2.53
-15	(+ 5)	880	222	258	91	0.71	2.83	9.69	2.44	2.84
-10	(+14)	1093	275	320	101	0.78	3.52	10.84	2.73	3.18
-5	(+23)	1341	338	393	110	0.85	4.34	12.12	3.05	3.55
0	(+32)	1627	410	477	120	0.91	5.28	13.55	3.41	3.97

### 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)	254	64	74	53	0.43	0.88	4.82	1.21	1.41
-30	(-22)	356	90	104	64	0.52	1.24	5.56	1.40	1.63
-25	(-13)	477	120	140	75	0.61	1.66	6.31	1.59	1.85
-20	(- 4)	619	156	181	87	0.70	2.16	7.09	1.79	2.08
-15	(+ 5)	787	198	231	99	0.79	2.75	7.92	1.99	2.32
-10	(+14)	985	248	288	112	0.88	3.45	8.83	2.22	2.59
-5	(+23)	1215	306	356	124	0.97	4.27	9.84	2.48	2.88
0	(+32)	1483	374	435	135	1.06	5.22	10.99	2.77	3.22

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)	204	51	60	52	0.43	0.78	3.93	0.99	1.15
-30	(-22)	297	75	87	65	0.52	1.13	4.55	1.15	1.33
-25	(-13)	405	102	119	78	0.62	1.54	5.16	1.30	1.51
-20	(- 4)	534	135	157	92	0.73	2.04	5.78	1.46	1.69
-15	(+ 5)	687	173	201	107	0.84	2.63	6.44	1.62	1.89
-10	(+14)	868	219	254	121	0.95	3.33	7.16	1.80	2.10
-5	(+23)	1080	272	316	136	1.06	4.16	7.97	2.01	2.33
0	(+32)	1328	335	389	150	1.17	5.12	8.89	2.24	2.61

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)	375	94	110	70	0.54	1.20	5.39	1.36	1.58
-30	(-22)	491	124	144	82	0.64	1.57	6.02	1.52	1.76
-25	(-13)	651	164	191	95	0.73	2.09	6.86	1.73	2.01
-20	(- 4)	853	215	250	108	0.82	2.74	7.86	1.98	2.30
-15	(+ 5)	1097	277	322	122	0.91	3.53	8.98	2.26	2.63
-10	(+14)	1381	348	405	136	1.01	4.46	10.19	2.57	2.99
-5	(+23)	1704	429	499	149	1.10	5.51	11.45	2.89	3.36
0	(+32)	2064	520	605	162	1.19	6.70	12.72	3.20	3.73

### 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)	336	85	98	72	0.57	1.17	4.64	1.17	1.36
-30	(-22)	436	110	128	85	0.68	1.52	5.15	1.30	1.51
-25	(-13)	574	145	168	99	0.78	2.00	5.82	1.47	1.71
-20	(- 4)	748	188	219	113	0.88	2.61	6.62	1.67	1.94
-15	(+ 5)	957	241	281	127	0.99	3.34	7.52	1.89	2.20
-10	(+14)	1201	303	352	142	1.09	4.20	8.47	2.13	2.48
-5	(+23)	1476	372	433	157	1.20	5.18	9.43	2.38	2.76
0	(+32)	1783	449	523	171	1.32	6.28	10.37	2.61	3.04

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)	285	72	84	73	0.58	1.09	3.89	0.98	1.14
-30	(-22)	375	94	110	87	0.68	1.43	4.31	1.09	1.26
-25	(-13)	496	125	145	102	0.79	1.89	4.86	1.23	1.42
-20	(- 4)	647	163	190	117	0.90	2.47	5.51	1.39	1.61
-15	(+ 5)	827	208	242	133	1.02	3.16	6.22	1.57	1.82
-10	(+14)	1035	261	303	149	1.14	3.97	6.94	1.75	2.04
-5	(+23)	1270	320	372	166	1.27	4.89	7.65	1.93	2.24
0	(+32)	1529	385	448	182	1.40	5.91	8.30	2.09	2.43



### F - EXTERNAL CHARACTERISTICS

1 Base plate	Universal VES		
2 Tray holder	No		
3 Connectors			
3.1 SUCTION	6.5 +0.12/-0.08	[mm]	(0.256" +0.005"/-0.003")
3.1.1 Material	Copper		
3.1.2 Shape	Slanted 45° up + 49° 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 0° 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 0° up + 59° to Back		
3.4 Oil cooler (Copper)	No	[mm]	
3.5 Connector sealing	Rubber Plugs		