

### COMPRESSOR DEFINITION

Designation	<b>VES F5C</b>
Nominal Voltage/Frequency	<b>230 V 32-150 Hz</b>
Engineering Number	<b>513907361</b>

### 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	5.19	[cm <sup>3</sup> ] (0.317 cu.in)
2.1 Bore [mm]	21.000	
2.2 Stroke [mm]	15.000	
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)	6.3	[kg] (13.89 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	PFC CF02D02 M	
3 Start capacitor	-	[µF(VAC minimum)]
4 Run capacitor	-	[µF(VAC minimum)]
5 Motor protection	PFC CF02D02 M	
6 Start winding resistance		[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance		[Ω at 25°C (77°F)] +/- 8%
8 LRA - Locked rotor amperage (40/150 Hz)	-	[A] - Measured according to UL 984
9 FLA - Full load amperage L/MBP (40/150 Hz)	-	[A] - Measured according to UL 984
10 FLA - Full Load Amperage HBP (40/150 Hz)	-	[A] - Measured according to UL 984
11 Approval boards certification		

### D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS: @220V1300RPM			ASHRAELBP32 Static		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]	
113	28	33	19	0.18	0.35	6.01	1.51	1.76	

TEST CONDITIONS: @220V2000RPM			ASHRAELBP32 Static		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]	
177	45	52	29	0.26	0.56	6.21	1.56	1.82	

TEST CONDITIONS: @220V4500RPM			ASHRAELBP32 Static		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]	
406	102	119	68	0.53	1.27	5.94	1.50	1.74	

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V950RPM		ASHRAE32 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)	48	12	14	9	0.13	0.15	5.36	1.35	1.57
-30	(-22)	70	18	20	11	0.14	0.22	6.56	1.65	1.92
-25	(-13)	95	24	28	12	0.15	0.30	7.75	1.95	2.27
-20	(- 4)	125	32	37	14	0.16	0.39	9.01	2.27	2.64
-15	(+ 5)	161	41	47	16	0.17	0.51	10.42	2.62	3.05
-10	(+14)	203	51	59	17	0.18	0.64	12.06	3.04	3.53
-5	(+23)	252	63	74	18	0.18	0.80	14.01	3.53	4.11
0	(+32)	308	78	90	18	0.18	0.98	16.37	4.12	4.80

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V950RPM		ASHRAE32 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)	38	10	11	9	0.14	0.12	4.35	1.10	1.28
-30	(-22)	56	14	16	10	0.15	0.17	5.30	1.34	1.55
-25	(-13)	78	20	23	12	0.16	0.24	6.22	1.57	1.82
-20	(- 4)	105	26	31	15	0.17	0.33	7.20	1.81	2.11
-15	(+ 5)	139	35	41	17	0.18	0.44	8.31	2.09	2.44
-10	(+14)	179	45	53	19	0.19	0.57	9.65	2.43	2.83
-5	(+23)	227	57	67	20	0.20	0.72	11.29	2.84	3.31
0	(+32)	284	72	83	21	0.21	0.90	13.31	3.35	3.90

TEST CONDITIONS: @220V950RPM		ASHRAE32 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)	31	8	9	9	0.14	0.10	3.46	0.87	1.01
-30	(-22)	43	11	13	10	0.15	0.13	4.22	1.06	1.24
-25	(-13)	61	15	18	13	0.16	0.19	4.94	1.24	1.45
-20	(- 4)	85	21	25	15	0.17	0.27	5.70	1.44	1.67
-15	(+ 5)	116	29	34	17	0.19	0.37	6.59	1.66	1.93
-10	(+14)	155	39	45	20	0.21	0.49	7.69	1.94	2.25
-5	(+23)	202	51	59	22	0.22	0.64	9.08	2.29	2.66
0	(+32)	258	65	76	24	0.23	0.82	10.84	2.73	3.18

TEST CONDITIONS: @220V1300RPM		ASHRAE32 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)	73	18	21	12	0.13	0.23	6.16	1.55	1.81
-30	(-22)	99	25	29	14	0.14	0.31	7.02	1.77	2.06
-25	(-13)	131	33	39	16	0.16	0.41	8.05	2.03	2.36
-20	(- 4)	172	43	50	19	0.17	0.54	9.30	2.34	2.73
-15	(+ 5)	220	56	65	20	0.18	0.69	10.80	2.72	3.16
-10	(+14)	278	70	81	22	0.20	0.88	12.58	3.17	3.69
-5	(+23)	345	87	101	23	0.21	1.09	14.68	3.70	4.30
0	(+32)	422	106	124	24	0.22	1.34	17.13	4.32	5.02

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V1300RPM		ASHRAE32 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)	58	15	17	12	0.15	0.18	4.80	1.21	1.41
-30	(-22)	81	20	24	15	0.17	0.25	5.58	1.41	1.63
-25	(-13)	112	28	33	17	0.18	0.35	6.44	1.62	1.89
-20	(- 4)	149	38	44	20	0.19	0.47	7.44	1.87	2.18
-15	(+ 5)	195	49	57	23	0.21	0.61	8.59	2.16	2.52
-10	(+14)	249	63	73	25	0.22	0.79	9.94	2.50	2.91
-5	(+23)	313	79	92	27	0.24	0.99	11.52	2.90	3.38
0	(+32)	387	97	113	29	0.26	1.22	13.36	3.37	3.92

TEST CONDITIONS: @220V1300RPM		ASHRAE32 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)	50	13	15	12	0.16	0.16	4.14	1.04	1.21
-30	(-22)	71	18	21	15	0.18	0.22	4.90	1.24	1.44
-25	(-13)	99	25	29	18	0.19	0.31	5.67	1.43	1.66
-20	(- 4)	134	34	39	21	0.21	0.42	6.48	1.63	1.90
-15	(+ 5)	177	45	52	24	0.23	0.56	7.36	1.85	2.16
-10	(+14)	228	57	67	27	0.25	0.72	8.34	2.10	2.44
-5	(+23)	288	73	85	30	0.27	0.91	9.47	2.39	2.78
0	(+32)	359	90	105	33	0.29	1.14	10.78	2.72	3.16

TEST CONDITIONS: @220V1600RPM		ASHRAE32 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)	92	23	27	15	0.16	0.29	6.17	1.55	1.81
-30	(-22)	123	31	36	17	0.18	0.39	7.02	1.77	2.06
-25	(-13)	162	41	47	20	0.20	0.51	8.01	2.02	2.35
-20	(- 4)	210	53	62	23	0.22	0.66	9.19	2.31	2.69
-15	(+ 5)	268	68	79	25	0.23	0.84	10.59	2.67	3.10
-10	(+14)	336	85	98	28	0.25	1.06	12.27	3.09	3.60
-5	(+23)	415	104	121	29	0.25	1.31	14.28	3.60	4.18
0	(+32)	505	127	148	29	0.25	1.60	16.65	4.20	4.88

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V1600RPM		ASHRAE32 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)	68	17	20	15	0.17	0.21	4.68	1.18	1.37
-30	(-22)	98	25	29	18	0.19	0.31	5.58	1.41	1.64
-25	(-13)	137	35	40	21	0.21	0.43	6.55	1.65	1.92
-20	(- 4)	186	47	54	24	0.23	0.58	7.64	1.92	2.24
-15	(+ 5)	245	62	72	27	0.25	0.77	8.88	2.24	2.60
-10	(+14)	314	79	92	30	0.27	0.99	10.34	2.61	3.03
-5	(+23)	395	100	116	33	0.29	1.25	12.05	3.04	3.53
0	(+32)	488	123	143	35	0.30	1.55	14.06	3.54	4.12

TEST CONDITIONS: @220V1600RPM		ASHRAE32 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)	59	15	17	15	0.17	0.18	3.87	0.98	1.14
-30	(-22)	83	21	24	18	0.19	0.26	4.69	1.18	1.37
-25	(-13)	118	30	35	22	0.21	0.37	5.50	1.39	1.61
-20	(- 4)	162	41	48	26	0.23	0.51	6.36	1.60	1.86
-15	(+ 5)	217	55	64	30	0.26	0.68	7.31	1.84	2.14
-10	(+14)	284	72	83	34	0.29	0.90	8.40	2.12	2.46
-5	(+23)	362	91	106	37	0.32	1.15	9.68	2.44	2.84
0	(+32)	453	114	133	41	0.34	1.44	11.19	2.82	3.28

TEST CONDITIONS: @220V2000RPM		ASHRAE32 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)	109	28	32	19	0.18	0.34	5.82	1.47	1.71
-30	(-22)	151	38	44	22	0.21	0.47	6.82	1.72	2.00
-25	(-13)	203	51	59	26	0.24	0.64	7.92	2.00	2.32
-20	(- 4)	265	67	78	29	0.26	0.83	9.16	2.31	2.68
-15	(+ 5)	339	85	99	32	0.28	1.07	10.61	2.67	3.11
-10	(+14)	427	108	125	35	0.30	1.35	12.30	3.10	3.61
-5	(+23)	531	134	156	37	0.31	1.68	14.30	3.60	4.19
0	(+32)	653	164	191	39	0.33	2.07	16.66	4.20	4.88

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V2000RPM		ASHRAE32 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)	83	21	24	18	0.19	0.26	4.68	1.18	1.37
-30	(-22)	126	32	37	22	0.22	0.39	5.69	1.44	1.67
-25	(-13)	178	45	52	26	0.24	0.56	6.71	1.69	1.97
-20	(- 4)	240	60	70	31	0.27	0.75	7.78	1.96	2.28
-15	(+ 5)	314	79	92	35	0.29	0.99	8.95	2.26	2.62
-10	(+14)	402	101	118	39	0.32	1.27	10.29	2.59	3.01
-5	(+23)	505	127	148	43	0.35	1.60	11.83	2.98	3.47
0	(+32)	625	158	183	46	0.38	1.98	13.63	3.43	3.99

TEST CONDITIONS: @220V2000RPM		ASHRAE32 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)	72	18	21	18	0.19	0.23	3.86	0.97	1.13
-30	(-22)	111	28	32	23	0.22	0.35	4.89	1.23	1.43
-25	(-13)	158	40	46	27	0.25	0.49	5.84	1.47	1.71
-20	(- 4)	214	54	63	32	0.28	0.67	6.74	1.70	1.97
-15	(+ 5)	283	71	83	37	0.31	0.89	7.66	1.93	2.24
-10	(+14)	365	92	107	42	0.34	1.15	8.63	2.18	2.53
-5	(+23)	462	116	135	47	0.38	1.46	9.73	2.45	2.85
0	(+32)	575	145	168	52	0.43	1.82	10.99	2.77	3.22

TEST CONDITIONS: @220V3000RPM		ASHRAE32 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)	160	40	47	29	0.24	0.50	5.54	1.40	1.62
-30	(-22)	225	57	66	34	0.28	0.70	6.58	1.66	1.93
-25	(-13)	301	76	88	39	0.32	0.94	7.65	1.93	2.24
-20	(- 4)	391	98	114	44	0.35	1.23	8.79	2.22	2.58
-15	(+ 5)	498	125	146	49	0.39	1.57	10.07	2.54	2.95
-10	(+14)	627	158	184	54	0.43	1.98	11.55	2.91	3.39
-5	(+23)	780	197	228	59	0.47	2.47	13.28	3.35	3.89
0	(+32)	961	242	282	63	0.51	3.05	15.33	3.86	4.49

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V3000RPM		ASHRAE32 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)	137	34	40	29	0.25	0.43	4.72	1.19	1.38
-30	(-22)	202	51	59	35	0.29	0.63	5.74	1.45	1.68
-25	(-13)	278	70	81	41	0.33	0.87	6.72	1.69	1.97
-20	(- 4)	367	92	107	48	0.38	1.15	7.73	1.95	2.27
-15	(+ 5)	473	119	139	54	0.42	1.49	8.82	2.22	2.58
-10	(+14)	600	151	176	60	0.47	1.89	10.04	2.53	2.94
-5	(+23)	752	189	220	65	0.52	2.38	11.46	2.89	3.36
0	(+32)	931	235	273	71	0.57	2.95	13.13	3.31	3.85

TEST CONDITIONS: @220V3000RPM		ASHRAE32 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)	105	26	31	28	0.25	0.33	3.79	0.95	1.11
-30	(-22)	171	43	50	35	0.29	0.54	4.86	1.23	1.43
-25	(-13)	247	62	72	42	0.34	0.77	5.84	1.47	1.71
-20	(- 4)	336	85	98	50	0.39	1.06	6.79	1.71	1.99
-15	(+ 5)	442	111	129	57	0.45	1.39	7.75	1.95	2.27
-10	(+14)	568	143	167	65	0.50	1.79	8.80	2.22	2.58
-5	(+23)	718	181	211	72	0.56	2.27	9.97	2.51	2.92
0	(+32)	896	226	263	79	0.62	2.84	11.35	2.86	3.32

TEST CONDITIONS: @220V4500RPM		ASHRAE32 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)	236	59	69	47	0.38	0.74	5.01	1.26	1.47
-30	(-22)	305	77	89	52	0.40	0.95	5.94	1.50	1.74
-25	(-13)	407	103	119	59	0.45	1.28	6.92	1.74	2.03
-20	(- 4)	542	137	159	67	0.51	1.70	8.01	2.02	2.35
-15	(+ 5)	711	179	208	76	0.58	2.24	9.25	2.33	2.71
-10	(+14)	912	230	267	85	0.65	2.88	10.70	2.70	3.13
-5	(+23)	1145	289	336	93	0.70	3.62	12.39	3.12	3.63
0	(+32)	1411	356	413	99	0.74	4.47	14.39	3.63	4.22

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V4500RPM		ASHRAE32 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)	214	54	63	47	0.38	0.67	4.61	1.16	1.35
-30	(-22)	286	72	84	53	0.41	0.90	5.47	1.38	1.60
-25	(-13)	386	97	113	62	0.47	1.21	6.32	1.59	1.85
-20	(- 4)	513	129	150	71	0.54	1.61	7.22	1.82	2.12
-15	(+ 5)	667	168	196	81	0.62	2.10	8.21	2.07	2.41
-10	(+14)	848	214	248	91	0.68	2.67	9.35	2.36	2.74
-5	(+23)	1055	266	309	98	0.74	3.34	10.68	2.69	3.13
0	(+32)	1288	324	377	103	0.76	4.08	12.25	3.09	3.59

TEST CONDITIONS: @220V4500RPM		ASHRAE32 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)	165	42	48	43	0.35	0.52	3.79	0.96	1.11
-30	(-22)	250	63	73	52	0.41	0.78	4.73	1.19	1.39
-25	(-13)	356	90	104	63	0.48	1.12	5.60	1.41	1.64
-20	(- 4)	483	122	142	75	0.57	1.52	6.46	1.63	1.89
-15	(+ 5)	631	159	185	86	0.65	1.99	7.36	1.85	2.16
-10	(+14)	799	201	234	96	0.72	2.52	8.34	2.10	2.44
-5	(+23)	988	249	289	105	0.78	3.12	9.46	2.38	2.77
0	(+32)	1196	301	351	110	0.81	3.79	10.76	2.71	3.15



### 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 63° up + 5° to Front		
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		