

COMPRESSOR DEFINITION

Designation	VES G7C
Nominal Voltage/Frequency	230 V 32-150 Hz
Engineering Number	503907489

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)	-	-	-
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	6.9	[kgf/cm ²] (98 psig)	/ °C - °F
9.2 Peak	7.8	[kgf/cm ²] (111 psig)	/ °C - °F
10 Maximum winding temperature	130	[°C]	

B - MECHANICAL DATA

1 Commercial designation	1/5	[hp]
2 Displacement	7.23	[cm ³] (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)	6.2	[kg] (13.67 lb.)
5 Nitrogen charge	-	[kgf/cm ²]

C - ELECTRICAL 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	VES 2456 XX X X	
3 Start capacitor	-	[µF(VAC minimum)]
4 Run capacitor	-	[µF(VAC minimum)]
5 Motor protection	INVERTER VES 2456X	
6 Start winding resistance	15.60	[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance	15.60	[Ω at 25°C (77°F)] +/- 8%
8 LRA - Locked rotor amperage (32/150 Hz)	-	[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	VDE	

D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS: @220V950RPM			ASHRAELBP32 Static		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 54.4°C (129.92°F)	
Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
135	34	39	202	0.19	0.42	0.67	0.17	0.20

TEST CONDITIONS: @220V1300RPM			ASHRAELBP32 Static		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 54.4°C (129.92°F)	
Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
181	46	53	27	0.25	0.57	6.83	1.72	2.00

TEST CONDITIONS: @220V1600RPM			ASHRAELBP32 Static		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 54.4°C (129.92°F)	
Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
229	58	67	33	0.27	0.72	6.86	1.73	2.01

TEST CONDITIONS: @220V2000RPM			ASHRAELBP32 Static		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 54.4°C (129.92°F)	
Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
283	71	83	42	0.35	0.89	6.82	1.72	2.00

TEST CONDITIONS: @220V3000RPM			ASHRAELBP32 Static		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 54.4°C (129.92°F)	
Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
416	105	122	62	0.50	1.31	6.72	1.69	1.97

TEST CONDITIONS: @220V4000RPM			ASHRAELBP32 Static		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 54.4°C (129.92°F)	
Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
563	142	165	86	0.67	1.77	6.52	1.64	1.91

D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS: @220V4500RPM			ASHRAELBP32 Static		Evaporating temperature (Condensing temperature		-23.3°C (-9.94°F) 54.4°C (129.92°F)	
Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
611	154	179	94	0.68	1.92	6.52	1.64	1.91

E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V950RPM			ASHRAE32 Static		(Condensing temperature 35°C (+95°F))					
Evaporating temperature		Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-35	(-31)	81	20	24	13	0.13	0.25	6.49	1.63	1.90
-30	(-22)	109	27	32	15	0.15	0.34	7.40	1.87	2.17
-25	(-13)	142	36	42	17	0.16	0.45	8.44	2.13	2.47
-20	(- 4)	182	46	53	19	0.18	0.57	9.63	2.43	2.82
-15	(+ 5)	230	58	67	21	0.19	0.72	11.03	2.78	3.23
-10	(+14)	287	72	84	23	0.20	0.91	12.67	3.19	3.71
-5	(+23)	354	89	104	24	0.21	1.12	14.60	3.68	4.28
0	(+32)	433	109	127	26	0.22	1.37	16.87	4.25	4.94

TEST CONDITIONS: @220V950RPM			ASHRAE32 Static		(Condensing temperature 45°C (+113°F))					
Evaporating temperature		Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-35	(-31)	73	18	21	13	0.12	0.23	5.82	1.47	1.71
-30	(-22)	101	25	30	15	0.15	0.32	6.57	1.66	1.92
-25	(-13)	134	34	39	18	0.17	0.42	7.38	1.86	2.16
-20	(- 4)	174	44	51	21	0.19	0.55	8.29	2.09	2.43
-15	(+ 5)	222	56	65	24	0.21	0.70	9.35	2.36	2.74
-10	(+14)	278	70	82	26	0.23	0.88	10.61	2.67	3.11
-5	(+23)	345	87	101	29	0.24	1.09	12.09	3.05	3.54
0	(+32)	422	106	124	31	0.25	1.34	13.85	3.49	4.06

TEST CONDITIONS: @220V950RPM			ASHRAE32 Static		(Condensing temperature 55°C (+131°F))					
Evaporating temperature		Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-35	(-31)	59	15	17	12	0.11	0.19	5.04	1.27	1.48
-30	(-22)	88	22	26	15	0.15	0.27	5.72	1.44	1.68
-25	(-13)	121	30	35	19	0.18	0.38	6.40	1.61	1.88
-20	(- 4)	161	40	47	23	0.21	0.50	7.14	1.80	2.09
-15	(+ 5)	208	52	61	26	0.23	0.65	7.96	2.01	2.33
-10	(+14)	263	66	77	29	0.25	0.83	8.92	2.25	2.61
-5	(+23)	329	83	96	33	0.27	1.04	10.05	2.53	2.94
0	(+32)	405	102	119	36	0.28	1.28	11.40	2.87	3.34

E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V1300RPM		ASHRAE32 Static			(Condensing temperature 35°C (+95°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[Btu/Wh]	[kcal/Wh]
-35	(-31)	112	28	33	17	0.16	0.35	6.56	1.65	1.92
-30	(-22)	150	38	44	20	0.18	0.47	7.52	1.90	2.20
-25	(-13)	196	49	57	23	0.20	0.61	8.58	2.16	2.51
-20	(- 4)	250	63	73	26	0.22	0.79	9.78	2.46	2.86
-15	(+ 5)	316	80	93	28	0.24	1.00	11.17	2.82	3.27
-10	(+14)	394	99	116	31	0.26	1.24	12.82	3.23	3.76
-5	(+23)	487	123	143	33	0.27	1.54	14.75	3.72	4.32
0	(+32)	595	150	174	35	0.28	1.88	17.04	4.29	4.99

TEST CONDITIONS: @220V1300RPM		ASHRAE32 Static			(Condensing temperature 45°C (+113°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[Btu/Wh]	[kcal/Wh]
-35	(-31)	101	26	30	17	0.16	0.32	5.90	1.49	1.73
-30	(-22)	139	35	41	21	0.18	0.44	6.70	1.69	1.96
-25	(-13)	185	47	54	24	0.21	0.58	7.55	1.90	2.21
-20	(- 4)	239	60	70	28	0.24	0.75	8.48	2.14	2.49
-15	(+ 5)	304	77	89	32	0.26	0.96	9.56	2.41	2.80
-10	(+14)	382	96	112	35	0.29	1.20	10.82	2.73	3.17
-5	(+23)	473	119	139	38	0.31	1.50	12.33	3.11	3.61
0	(+32)	579	146	170	41	0.33	1.84	14.12	3.56	4.14

TEST CONDITIONS: @220V1300RPM		ASHRAE32 Static			(Condensing temperature 55°C (+131°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[Btu/Wh]	[kcal/Wh]
-35	(-31)	85	21	25	16	0.15	0.26	5.11	1.29	1.50
-30	(-22)	122	31	36	21	0.18	0.38	5.86	1.48	1.72
-25	(-13)	168	42	49	26	0.22	0.53	6.59	1.66	1.93
-20	(- 4)	222	56	65	30	0.25	0.70	7.36	1.86	2.16
-15	(+ 5)	286	72	84	35	0.29	0.90	8.21	2.07	2.41
-10	(+14)	362	91	106	39	0.32	1.14	9.20	2.32	2.70
-5	(+23)	452	114	132	44	0.35	1.43	10.37	2.61	3.04
0	(+32)	557	140	163	48	0.38	1.77	11.77	2.97	3.45

E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V1600RPM		ASHRAE32 Static			(Condensing temperature 35°C (+95°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[W]				[W]	[A]	[kg/h]	[Btu/Wh]
-35	(-31)	139	35	41	21	0.18	0.43	6.57	1.65	1.92
-30	(-22)	185	47	54	24	0.21	0.58	7.54	1.90	2.21
-25	(-13)	241	61	71	28	0.23	0.76	8.60	2.17	2.52
-20	(- 4)	308	78	90	31	0.26	0.97	9.80	2.47	2.87
-15	(+ 5)	389	98	114	35	0.28	1.22	11.19	2.82	3.28
-10	(+14)	486	122	142	38	0.30	1.53	12.83	3.23	3.76
-5	(+23)	599	151	176	41	0.32	1.89	14.76	3.72	4.33
0	(+32)	732	185	215	43	0.34	2.32	17.05	4.30	5.00

TEST CONDITIONS: @220V1600RPM		ASHRAE32 Static			(Condensing temperature 45°C (+113°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[W]				[W]	[A]	[kg/h]	[Btu/Wh]
-35	(-31)	126	32	37	21	0.18	0.39	5.92	1.49	1.73
-30	(-22)	172	43	50	26	0.21	0.54	6.75	1.70	1.98
-25	(-13)	228	57	67	30	0.25	0.71	7.61	1.92	2.23
-20	(- 4)	295	74	86	34	0.28	0.93	8.54	2.15	2.50
-15	(+ 5)	375	94	110	39	0.31	1.18	9.61	2.42	2.82
-10	(+14)	470	118	138	43	0.34	1.48	10.87	2.74	3.19
-5	(+23)	582	147	171	47	0.37	1.84	12.37	3.12	3.62
0	(+32)	713	180	209	51	0.39	2.26	14.16	3.57	4.15

TEST CONDITIONS: @220V1600RPM		ASHRAE32 Static			(Condensing temperature 55°C (+131°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[W]				[W]	[A]	[kg/h]	[Btu/Wh]
-35	(-31)	107	27	31	21	0.18	0.33	5.13	1.29	1.50
-30	(-22)	153	38	45	26	0.22	0.48	5.93	1.50	1.74
-25	(-13)	208	52	61	31	0.26	0.65	6.70	1.69	1.96
-20	(- 4)	274	69	80	37	0.30	0.86	7.49	1.89	2.19
-15	(+ 5)	353	89	103	42	0.34	1.11	8.35	2.10	2.45
-10	(+14)	447	113	131	48	0.38	1.41	9.34	2.35	2.74
-5	(+23)	557	140	163	53	0.41	1.76	10.51	2.65	3.08
0	(+32)	687	173	201	58	0.44	2.18	11.91	3.00	3.49

E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V2000RPM		ASHRAE32 Static			(Condensing temperature 35°C (+95°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[W]				[Btu/Wh]	[kcal/Wh]	[W/W]	
-35	(-31)	173	44	51	27	0.22	0.54	6.51	1.64	1.91
-30	(-22)	231	58	68	31	0.25	0.72	7.48	1.88	2.19
-25	(-13)	300	76	88	35	0.28	0.94	8.52	2.15	2.50
-20	(- 4)	384	97	113	40	0.31	1.21	9.70	2.44	2.84
-15	(+ 5)	485	122	142	44	0.34	1.53	11.06	2.79	3.24
-10	(+14)	605	153	177	48	0.37	1.91	12.66	3.19	3.71
-5	(+23)	747	188	219	51	0.39	2.36	14.56	3.67	4.27
0	(+32)	913	230	268	54	0.41	2.90	16.81	4.24	4.93

TEST CONDITIONS: @220V2000RPM		ASHRAE32 Static			(Condensing temperature 45°C (+113°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[W]				[Btu/Wh]	[kcal/Wh]	[W/W]	
-35	(-31)	158	40	46	27	0.22	0.50	5.87	1.48	1.72
-30	(-22)	215	54	63	32	0.26	0.67	6.72	1.69	1.97
-25	(-13)	284	72	83	37	0.30	0.89	7.58	1.91	2.22
-20	(- 4)	367	92	108	43	0.34	1.15	8.52	2.15	2.50
-15	(+ 5)	467	118	137	49	0.38	1.47	9.58	2.41	2.81
-10	(+14)	585	147	172	54	0.42	1.85	10.83	2.73	3.17
-5	(+23)	725	183	213	59	0.45	2.29	12.31	3.10	3.61
0	(+32)	889	224	261	63	0.48	2.82	14.09	3.55	4.13

TEST CONDITIONS: @220V2000RPM		ASHRAE32 Static			(Condensing temperature 55°C (+131°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[W]				[Btu/Wh]	[kcal/Wh]	[W/W]	
-35	(-31)	136	34	40	27	0.22	0.42	5.11	1.29	1.50
-30	(-22)	192	48	56	32	0.27	0.60	5.94	1.50	1.74
-25	(-13)	260	66	76	39	0.32	0.82	6.73	1.69	1.97
-20	(- 4)	342	86	100	46	0.37	1.07	7.53	1.90	2.21
-15	(+ 5)	440	111	129	52	0.41	1.39	8.40	2.12	2.46
-10	(+14)	557	140	163	59	0.46	1.76	9.39	2.37	2.75
-5	(+23)	695	175	204	66	0.50	2.20	10.56	2.66	3.10
0	(+32)	857	216	251	72	0.54	2.72	11.97	3.02	3.51

E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V3000RPM		ASHRAE32 Static			(Condensing temperature 35°C (+95°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[Btu/Wh]	[kcal/Wh]
-35	(-31)	255	64	75	42	0.33	0.80	6.12	1.54	1.79
-30	(-22)	340	86	100	48	0.37	1.06	7.06	1.78	2.07
-25	(-13)	443	112	130	55	0.42	1.39	8.04	2.03	2.36
-20	(- 4)	567	143	166	62	0.47	1.78	9.13	2.30	2.67
-15	(+ 5)	718	181	210	69	0.52	2.26	10.38	2.61	3.04
-10	(+14)	897	226	263	76	0.56	2.83	11.85	2.99	3.47
-5	(+23)	1108	279	325	81	0.60	3.50	13.60	3.43	3.99
0	(+32)	1356	342	397	86	0.63	4.30	15.70	3.96	4.60

TEST CONDITIONS: @220V3000RPM		ASHRAE32 Static			(Condensing temperature 45°C (+113°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[Btu/Wh]	[kcal/Wh]
-35	(-31)	235	59	69	42	0.33	0.74	5.56	1.40	1.63
-30	(-22)	318	80	93	50	0.38	1.00	6.41	1.62	1.88
-25	(-13)	420	106	123	58	0.44	1.32	7.26	1.83	2.13
-20	(- 4)	543	137	159	66	0.51	1.71	8.15	2.05	2.39
-15	(+ 5)	691	174	202	75	0.57	2.17	9.14	2.30	2.68
-10	(+14)	868	219	254	84	0.63	2.74	10.30	2.60	3.02
-5	(+23)	1077	271	316	92	0.69	3.41	11.69	2.95	3.43
0	(+32)	1322	333	388	99	0.73	4.19	13.36	3.37	3.91

TEST CONDITIONS: @220V3000RPM		ASHRAE32 Static			(Condensing temperature 55°C (+131°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[Btu/Wh]	[kcal/Wh]
-35	(-31)	205	52	60	42	0.33	0.64	4.85	1.22	1.42
-30	(-22)	287	72	84	50	0.39	0.90	5.73	1.44	1.68
-25	(-13)	386	97	113	59	0.46	1.21	6.54	1.65	1.92
-20	(- 4)	507	128	149	69	0.53	1.59	7.34	1.85	2.15
-15	(+ 5)	653	165	191	80	0.61	2.06	8.19	2.06	2.40
-10	(+14)	828	209	243	90	0.68	2.61	9.14	2.30	2.68
-5	(+23)	1035	261	303	101	0.75	3.27	10.26	2.59	3.01
0	(+32)	1277	322	374	111	0.81	4.05	11.61	2.92	3.40

E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V3600RPM		ASHRAE32 Static			(Condensing temperature 35°C (+95°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[Btu/Wh]	[kcal/Wh]
-35	(-31)	303	76	89	52	0.40	0.95	5.87	1.48	1.72
-30	(-22)	404	102	118	60	0.45	1.27	6.76	1.70	1.98
-25	(-13)	527	133	154	68	0.51	1.65	7.70	1.94	2.26
-20	(- 4)	677	171	198	78	0.57	2.13	8.72	2.20	2.56
-15	(+ 5)	857	216	251	87	0.64	2.70	9.90	2.50	2.90
-10	(+14)	1073	270	314	95	0.70	3.38	11.29	2.84	3.31
-5	(+23)	1327	334	389	103	0.75	4.20	12.94	3.26	3.79
0	(+32)	1625	409	476	108	0.79	5.15	14.91	3.76	4.37

TEST CONDITIONS: @220V3600RPM		ASHRAE32 Static			(Condensing temperature 45°C (+113°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[Btu/Wh]	[kcal/Wh]
-35	(-31)	279	70	82	52	0.41	0.87	5.37	1.35	1.57
-30	(-22)	379	95	111	61	0.46	1.19	6.20	1.56	1.82
-25	(-13)	501	126	147	71	0.53	1.57	7.02	1.77	2.06
-20	(- 4)	649	164	190	82	0.61	2.04	7.87	1.98	2.31
-15	(+ 5)	827	209	242	94	0.69	2.61	8.82	2.22	2.58
-10	(+14)	1041	262	305	105	0.77	3.28	9.91	2.50	2.91
-5	(+23)	1293	326	379	115	0.84	4.09	11.22	2.83	3.29
0	(+32)	1589	400	466	125	0.89	5.04	12.80	3.23	3.75

TEST CONDITIONS: @220V3600RPM		ASHRAE32 Static			(Condensing temperature 55°C (+131°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[Btu/Wh]	[kcal/Wh]
-35	(-31)	244	62	72	52	0.41	0.76	4.70	1.18	1.38
-30	(-22)	341	86	100	61	0.48	1.07	5.57	1.40	1.63
-25	(-13)	461	116	135	73	0.56	1.45	6.37	1.60	1.87
-20	(- 4)	606	153	178	85	0.65	1.90	7.15	1.80	2.09
-15	(+ 5)	782	197	229	98	0.74	2.46	7.97	2.01	2.33
-10	(+14)	992	250	291	112	0.83	3.13	8.88	2.24	2.60
-5	(+23)	1242	313	364	125	0.91	3.93	9.95	2.51	2.92
0	(+32)	1534	387	450	137	0.98	4.86	11.24	2.83	3.29

E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V4000RPM		ASHRAE32 Static			(Condensing temperature 35°C (+95°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[W]	[A]
-35	(-31)	335	84	98	58	0.45	1.05	5.75	1.45	1.68
-30	(-22)	448	113	131	68	0.50	1.40	6.62	1.67	1.94
-25	(-13)	586	148	172	78	0.57	1.84	7.53	1.90	2.21
-20	(- 4)	754	190	221	88	0.64	2.37	8.52	2.15	2.50
-15	(+ 5)	955	241	280	99	0.72	3.01	9.66	2.43	2.83
-10	(+14)	1196	301	350	109	0.79	3.77	10.99	2.77	3.22
-5	(+23)	1480	373	434	118	0.85	4.68	12.58	3.17	3.69
0	(+32)	1813	457	531	124	0.90	5.75	14.49	3.65	4.25

TEST CONDITIONS: @220V4000RPM		ASHRAE32 Static			(Condensing temperature 45°C (+113°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[W]	[A]
-35	(-31)	309	78	91	59	0.45	0.97	5.28	1.33	1.55
-30	(-22)	421	106	123	69	0.51	1.32	6.11	1.54	1.79
-25	(-13)	558	141	163	81	0.59	1.75	6.90	1.74	2.02
-20	(- 4)	724	182	212	93	0.68	2.27	7.73	1.95	2.27
-15	(+ 5)	924	233	271	107	0.77	2.91	8.65	2.18	2.53
-10	(+14)	1163	293	341	120	0.86	3.67	9.71	2.45	2.85
-5	(+23)	1446	364	424	132	0.94	4.57	10.98	2.77	3.22
0	(+32)	1778	448	521	143	1.01	5.64	12.52	3.15	3.67

TEST CONDITIONS: @220V4000RPM		ASHRAE32 Static			(Condensing temperature 55°C (+131°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[Btu/h]				[kcal/h]	[W]	[W]	[A]
-35	(-31)	269	68	79	58	0.45	0.84	4.64	1.17	1.36
-30	(-22)	378	95	111	69	0.52	1.19	5.50	1.39	1.61
-25	(-13)	512	129	150	82	0.61	1.61	6.29	1.58	1.84
-20	(- 4)	675	170	198	96	0.71	2.12	7.05	1.78	2.07
-15	(+ 5)	872	220	256	111	0.81	2.75	7.85	1.98	2.30
-10	(+14)	1109	279	325	127	0.91	3.50	8.74	2.20	2.56
-5	(+23)	1389	350	407	142	1.01	4.39	9.78	2.47	2.87
0	(+32)	1717	433	503	156	1.09	5.44	11.03	2.78	3.23

E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V4500RPM		ASHRAE32 Static			(Condensing temperature 35°C (+95°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[W]				[Btu/Wh]	[kcal/Wh]	[W/W]	
-35	(-31)	378	95	111	66	0.50	1.18	5.69	1.43	1.67
-30	(-22)	499	126	146	76	0.56	1.57	6.54	1.65	1.92
-25	(-13)	644	162	189	87	0.63	2.02	7.43	1.87	2.18
-20	(- 4)	816	206	239	97	0.70	2.56	8.41	2.12	2.46
-15	(+ 5)	1018	257	298	107	0.77	3.20	9.54	2.40	2.80
-10	(+14)	1253	316	367	115	0.83	3.95	10.89	2.74	3.19
-5	(+23)	1525	384	447	122	0.87	4.82	12.50	3.15	3.66
0	(+32)	1836	463	538	126	0.89	5.82	14.45	3.64	4.23

TEST CONDITIONS: @220V4500RPM		ASHRAE32 Static			(Condensing temperature 45°C (+113°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[W]				[Btu/Wh]	[kcal/Wh]	[W/W]	
-35	(-31)	347	87	102	66	0.49	1.08	5.27	1.33	1.54
-30	(-22)	466	118	137	77	0.56	1.46	6.07	1.53	1.78
-25	(-13)	609	154	179	89	0.64	1.91	6.85	1.73	2.01
-20	(- 4)	779	196	228	101	0.73	2.45	7.67	1.93	2.25
-15	(+ 5)	978	246	287	114	0.81	3.08	8.58	2.16	2.52
-10	(+14)	1210	305	355	125	0.89	3.82	9.66	2.43	2.83
-5	(+23)	1478	373	433	135	0.96	4.67	10.94	2.76	3.21
0	(+32)	1786	450	523	143	1.00	5.66	12.51	3.15	3.66

TEST CONDITIONS: @220V4500RPM		ASHRAE32 Static			(Condensing temperature 55°C (+131°F))					
Evaporating temperature	Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%			
	°C	(°F)	[W]				[Btu/Wh]	[kcal/Wh]	[W/W]	
-35	(-31)	297	75	87	64	0.48	0.93	4.64	1.17	1.36
-30	(-22)	414	104	121	76	0.56	1.30	5.49	1.38	1.61
-25	(-13)	554	140	162	89	0.65	1.74	6.26	1.58	1.83
-20	(- 4)	720	181	211	103	0.75	2.26	7.02	1.77	2.06
-15	(+ 5)	915	231	268	117	0.85	2.88	7.81	1.97	2.29
-10	(+14)	1143	288	335	131	0.94	3.61	8.71	2.19	2.55
-5	(+23)	1408	355	412	144	1.02	4.45	9.76	2.46	2.86
0	(+32)	1711	431	501	155	1.08	5.43	11.04	2.78	3.24

F - EXTERNAL CHARACTERISTICS

1 Base plate	European Standard VES		
2 Tray holder	Yes		
3 Connectors			
3.1 SUCTION	6.1 +0.10/+0.00	[mm]	(0.240" +0.004"/+0.000")
3.1.1 Material	Copper		
3.1.2 Shape	Slanted 79° up + 0° back		
3.2 DISCHARGE	5.1 +0.10/+0.00	[mm]	(0.201" +0.004"/+0.000")
3.2.1 Material	Copper		
3.2.2 Shape	Slanted 47° up + 24° to Back		
3.3 PROCESS	6 +0.08/-0.08	[mm]	(0.236" +0.003"/-0.003")
3.3.1 Material	Copper(OD)		
3.3.2 Shape	Slanted 47° up + 59° to Back		
3.4 Oil cooler (Copper)	No	[mm]	
3.5 Connector sealing	Rubber Plugs		