COMPRESSOR DEFINITION

Designation	**VES G11C**
Nominal Voltage/Frequency	**230 V 32-150 Hz**
Engineering Number	**513907452**

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 Expantion device	Capillary tube		
8 Compressor cooling		Operating voltage range	
		50 Hz	60 Hz
8.1 LBP (32ºC Ambient temperature)	-	-	-
8.2 LBP (43ºC Ambient temperature)	-	-	-
8.3 HBP (32ºC Ambient temperature)	-	-	-
8.4 HBP (43ºC Ambient temperature)	-	-	-
9 Maximum condensing temperature			
9.1 Operating	6.9	[kgf/cm²] (98 psig)	/ ºC - ºF
9.2 Peak	7.8	[kgf/cm²] (111 psig)	/ ºC - ºF
10 Maximum winding temperature	130	[°C]	

B - MECHANICAL DATA

1 Commercial designation	1/5	[hp]
2 Displacement	11.14	[cm³] (0.680 cu.in)
2.1 Bore [mm]	26.000	
2.2 Stroke [mm]	21.000	
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)	6.7	[kg] (14.77 lb.)
5 Nitrogen charge	-	[kgf/cm²]

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	VCC3 1156 XXXXX	
3 Start capacitor	-	[µF(VAC minimum)]
4 Run capacitor	-	[µF(VAC minimum)]
5 Motor protection	VCC3 1156 XX	
6 Start winding resistance	9.30	[Ω at 25ºC (77ºF)] +/- 8%
7 Run winding resistance	9.30	[Ω at 25ºC (77ºF)] +/- 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	UL	

D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS: **@115V950RPM**			**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]
215	54	63	34	0.49	0.68	6.38	1.61	1.87

TEST CONDITIONS: **@115V1300RPM**			**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]
293	74	86	44	0.61	0.92	6.64	1.67	1.95

TEST CONDITIONS: **@115V2000RPM**			**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]
454	114	133	67	0.91	1.43	6.80	1.71	1.99

TEST CONDITIONS: **@115V3000RPM**			**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]
686	173	201	104	1.43	2.15	6.62	1.67	1.94

TEST CONDITIONS: **@115V4000RPM**			**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]
867	218	254	139	1.84	2.72	6.25	1.58	1.83

E - PERFORMANCE - CURVES

TEST CONDITIONS: **ASHRAE32** (Condensing temperature **35ºC (+95ºF))**
@115V950RPM **Static**

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)**	131	33	38	19	0.30	0.41	6.72	1.69	1.97
-30	**(-22)**	172	43	51	23	0.32	0.54	7.60	1.91	2.23
-25	**(-13)**	223	56	65	26	0.35	0.70	8.58	2.16	2.52
-20	**(- 4)**	285	72	83	29	0.39	0.89	9.73	2.45	2.85
-15	**(+ 5)**	362	91	106	33	0.42	1.14	11.08	2.79	3.25
-10	**(+14)**	457	115	134	36	0.44	1.44	12.68	3.19	3.71
-5	**(+23)**	575	145	168	40	0.46	1.82	14.57	3.67	4.27
0	**(+32)**	717	181	210	43	0.46	2.27	16.79	4.23	4.92

TEST CONDITIONS: **ASHRAE32** (Condensing temperature **45ºC (+113ºF))**
@115V950RPM **Static**

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)**	115	29	34	20	0.30	0.36	5.84	1.47	1.71
-30	**(-22)**	159	40	47	24	0.33	0.50	6.57	1.66	1.93
-25	**(-13)**	212	53	62	29	0.37	0.66	7.33	1.85	2.15
-20	**(- 4)**	276	70	81	34	0.41	0.87	8.18	2.06	2.40
-15	**(+ 5)**	356	90	104	39	0.46	1.12	9.14	2.30	2.68
-10	**(+14)**	454	114	133	44	0.50	1.43	10.28	2.59	3.01
-5	**(+23)**	574	145	168	49	0.54	1.81	11.64	2.93	3.41
0	**(+32)**	719	181	211	55	0.56	2.28	13.25	3.34	3.88

TEST CONDITIONS: **ASHRAE32** (Condensing temperature **55ºC (+131ºF))**
@115V950RPM **Static**

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)**	107	27	31	22	0.30	0.33	4.92	1.24	1.44
-30	**(-22)**	152	38	44	27	0.34	0.47	5.68	1.43	1.66
-25	**(-13)**	205	52	60	32	0.39	0.64	6.39	1.61	1.87
-20	**(- 4)**	269	68	79	38	0.45	0.85	7.10	1.79	2.08
-15	**(+ 5)**	349	88	102	45	0.51	1.10	7.86	1.98	2.30
-10	**(+14)**	447	113	131	51	0.57	1.41	8.71	2.19	2.55
-5	**(+23)**	567	143	166	58	0.63	1.79	9.70	2.44	2.84
0	**(+32)**	712	180	209	66	0.68	2.26	10.87	2.74	3.18

E - PERFORMANCE - CURVES

TEST CONDITIONS: **ASHRAE32** (Condensing temperature **35ºC (+95ºF))**
@115V1300RPM **Static**

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)**	179	45	52	27	0.45	0.56	6.73	1.69	1.97
-30	**(-22)**	238	60	70	31	0.49	0.75	7.58	1.91	2.22
-25	**(-13)**	309	78	91	36	0.54	0.97	8.56	2.16	2.51
-20	**(- 4)**	394	99	116	41	0.60	1.24	9.70	2.44	2.84
-15	**(+ 5)**	497	125	146	45	0.65	1.56	11.03	2.78	3.23
-10	**(+14)**	620	156	182	49	0.71	1.96	12.61	3.18	3.69
-5	**(+23)**	766	193	224	53	0.75	2.42	14.44	3.64	4.23
0	**(+32)**	938	236	275	56	0.79	2.97	16.59	4.18	4.86

TEST CONDITIONS: **ASHRAE32** (Condensing temperature **45ºC (+113ºF))**
@115V1300RPM **Static**

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)**	166	42	49	28	0.45	0.52	5.94	1.50	1.74
-30	**(-22)**	223	56	65	34	0.50	0.70	6.66	1.68	1.95
-25	**(-13)**	292	74	86	39	0.57	0.92	7.44	1.87	2.18
-20	**(- 4)**	375	95	110	45	0.65	1.18	8.32	2.10	2.44
-15	**(+ 5)**	475	120	139	51	0.72	1.50	9.34	2.35	2.74
-10	**(+14)**	595	150	174	56	0.80	1.88	10.52	2.65	3.08
-5	**(+23)**	738	186	216	62	0.88	2.33	11.92	3.00	3.49
0	**(+32)**	906	228	266	67	0.94	2.87	13.55	3.41	3.97

TEST CONDITIONS: **ASHRAE32** (Condensing temperature **55ºC (+131ºF))**
@115V1300RPM **Static**

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)**	149	38	44	28	0.46	0.47	5.22	1.32	1.53
-30	**(-22)**	205	52	60	35	0.52	0.64	5.89	1.48	1.73
-25	**(-13)**	272	69	80	42	0.60	0.85	6.57	1.65	1.92
-20	**(- 4)**	353	89	103	49	0.68	1.11	7.28	1.83	2.13
-15	**(+ 5)**	450	113	132	56	0.77	1.42	8.06	2.03	2.36
-10	**(+14)**	567	143	166	63	0.87	1.79	8.96	2.26	2.62
-5	**(+23)**	706	178	207	71	0.96	2.23	10.00	2.52	2.93
0	**(+32)**	871	219	255	78	1.05	2.76	11.21	2.83	3.29

E - PERFORMANCE - CURVES

TEST CONDITIONS: **ASHRAE32** (Condensing temperature **35ºC (+95ºF))**
@115V1600RPM **Static**

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)**	217	55	64	33	0.49	0.68	6.49	1.64	1.90
-30	**(-22)**	286	72	84	39	0.55	0.90	7.36	1.86	2.16
-25	**(-13)**	371	93	109	44	0.62	1.16	8.34	2.10	2.44
-20	**(- 4)**	474	120	139	50	0.68	1.49	9.46	2.38	2.77
-15	**(+ 5)**	601	152	176	56	0.75	1.89	10.78	2.72	3.16
-10	**(+14)**	755	190	221	61	0.82	2.38	12.34	3.11	3.62
-5	**(+23)**	940	237	275	66	0.90	2.97	14.19	3.58	4.16
0	**(+32)**	1160	292	340	71	0.98	3.68	16.38	4.13	4.80

TEST CONDITIONS: **ASHRAE32** (Condensing temperature **45ºC (+113ºF))**
@115V1600RPM **Static**

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)**	206	52	60	35	0.53	0.64	5.93	1.49	1.74
-30	**(-22)**	276	69	81	41	0.60	0.86	6.66	1.68	1.95
-25	**(-13)**	359	90	105	48	0.67	1.13	7.44	1.87	2.18
-20	**(- 4)**	460	116	135	55	0.75	1.45	8.30	2.09	2.43
-15	**(+ 5)**	583	147	171	63	0.83	1.83	9.30	2.34	2.73
-10	**(+14)**	731	184	214	70	0.91	2.31	10.48	2.64	3.07
-5	**(+23)**	909	229	266	77	1.01	2.87	11.89	3.00	3.48
0	**(+32)**	1120	282	328	83	1.11	3.55	13.57	3.42	3.98

TEST CONDITIONS: **ASHRAE32** (Condensing temperature **55ºC (+131ºF))**
@115V1600RPM **Static**

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)**	184	46	54	35	0.53	0.58	5.21	1.31	1.53
-30	**(-22)**	254	64	75	43	0.61	0.80	5.91	1.49	1.73
-25	**(-13)**	337	85	99	51	0.70	1.06	6.60	1.66	1.93
-20	**(- 4)**	436	110	128	60	0.80	1.37	7.32	1.84	2.14
-15	**(+ 5)**	555	140	163	69	0.90	1.75	8.10	2.04	2.37
-10	**(+14)**	698	176	205	77	1.01	2.20	9.01	2.27	2.64
-5	**(+23)**	869	219	255	86	1.13	2.75	10.08	2.54	2.95
0	**(+32)**	1072	270	314	95	1.26	3.40	11.36	2.86	3.33

E - PERFORMANCE - CURVES

TEST CONDITIONS: **ASHRAE32** (Condensing temperature **35ºC (+95ºF))**
@115V2000RPM **Static**

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)**	272	69	80	42	0.57	0.85	6.44	1.62	1.89
-30	**(-22)**	359	91	105	49	0.66	1.13	7.30	1.84	2.14
-25	**(-13)**	467	118	137	56	0.75	1.47	8.28	2.09	2.43
-20	**(- 4)**	599	151	175	64	0.84	1.88	9.39	2.37	2.75
-15	**(+ 5)**	757	191	222	71	0.93	2.38	10.64	2.68	3.12
-10	**(+14)**	946	238	277	79	1.02	2.98	12.04	3.04	3.53
-5	**(+23)**	1169	295	343	86	1.10	3.70	13.62	3.43	3.99
0	**(+32)**	1429	360	419	93	1.18	4.53	15.38	3.88	4.51

TEST CONDITIONS: **ASHRAE32** (Condensing temperature **45ºC (+113ºF))**
@115V2000RPM **Static**

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)**	257	65	75	44	0.61	0.81	5.84	1.47	1.71
-30	**(-22)**	343	87	101	52	0.70	1.08	6.56	1.65	1.92
-25	**(-13)**	449	113	131	61	0.80	1.41	7.36	1.86	2.16
-20	**(- 4)**	577	145	169	70	0.91	1.81	8.26	2.08	2.42
-15	**(+ 5)**	731	184	214	79	1.02	2.30	9.26	2.33	2.71
-10	**(+14)**	915	230	268	88	1.13	2.88	10.37	2.61	3.04
-5	**(+23)**	1131	285	331	97	1.25	3.58	11.62	2.93	3.41
0	**(+32)**	1384	349	406	107	1.36	4.39	13.02	3.28	3.81

TEST CONDITIONS: **ASHRAE32** (Condensing temperature **55ºC (+131ºF))**
@115V2000RPM **Static**

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)**	232	58	68	45	0.61	0.73	5.21	1.31	1.53
-30	**(-22)**	318	80	93	54	0.71	1.00	5.87	1.48	1.72
-25	**(-13)**	422	106	124	64	0.83	1.32	6.57	1.66	1.92
-20	**(- 4)**	548	138	161	75	0.96	1.72	7.32	1.84	2.15
-15	**(+ 5)**	699	176	205	86	1.10	2.20	8.14	2.05	2.39
-10	**(+14)**	879	221	257	97	1.24	2.77	9.04	2.28	2.65
-5	**(+23)**	1090	275	319	109	1.39	3.45	10.03	2.53	2.94
0	**(+32)**	1337	337	392	120	1.55	4.24	11.14	2.81	3.26

E - PERFORMANCE - CURVES

TEST CONDITIONS: **ASHRAE32** (Condensing temperature **35ºC (+95ºF))**
@115V3000RPM **Static**

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)**	389	98	114	66	0.88	1.22	5.91	1.49	1.73
-30	**(-22)**	521	131	153	76	1.00	1.63	6.81	1.72	1.99
-25	**(-13)**	683	172	200	88	1.14	2.14	7.75	1.95	2.27
-20	**(- 4)**	878	221	257	100	1.30	2.76	8.74	2.20	2.56
-15	**(+ 5)**	1112	280	326	114	1.47	3.50	9.79	2.47	2.87
-10	**(+14)**	1388	350	407	127	1.65	4.38	10.90	2.75	3.19
-5	**(+23)**	1711	431	501	142	1.84	5.41	12.07	3.04	3.54
0	**(+32)**	2084	525	611	157	2.03	6.60	13.30	3.35	3.90

TEST CONDITIONS: **ASHRAE32** (Condensing temperature **45ºC (+113ºF))**
@115V3000RPM **Static**

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)**	381	96	112	68	0.90	1.19	5.59	1.41	1.64
-30	**(-22)**	507	128	149	81	1.04	1.59	6.30	1.59	1.85
-25	**(-13)**	663	167	194	94	1.21	2.08	7.06	1.78	2.07
-20	**(- 4)**	853	215	250	108	1.40	2.68	7.88	1.99	2.31
-15	**(+ 5)**	1082	273	317	124	1.60	3.40	8.75	2.21	2.56
-10	**(+14)**	1352	341	396	140	1.81	4.27	9.68	2.44	2.84
-5	**(+23)**	1669	421	489	156	2.03	5.28	10.68	2.69	3.13
0	**(+32)**	2036	513	597	173	2.25	6.45	11.74	2.96	3.44

TEST CONDITIONS: **ASHRAE32** (Condensing temperature **55ºC (+131ºF))**
@115V3000RPM **Static**

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)**	349	88	102	69	0.92	1.09	5.08	1.28	1.49
-30	**(-22)**	472	119	138	83	1.09	1.48	5.67	1.43	1.66
-25	**(-13)**	625	157	183	99	1.28	1.96	6.31	1.59	1.85
-20	**(- 4)**	812	205	238	116	1.50	2.55	7.01	1.77	2.05
-15	**(+ 5)**	1037	261	304	133	1.72	3.27	7.77	1.96	2.28
-10	**(+14)**	1304	329	382	152	1.97	4.12	8.59	2.16	2.52
-5	**(+23)**	1618	408	474	171	2.21	5.12	9.47	2.39	2.78
0	**(+32)**	1982	500	581	191	2.46	6.28	10.43	2.63	3.06

E - PERFORMANCE - CURVES

TEST CONDITIONS: **ASHRAE32** (Condensing temperature **35ºC (+95ºF))**
@115V4500RPM **Static**

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)**	530	134	155	93	1.23	1.66	5.68	1.43	1.66
-30	**(-22)**	684	172	200	107	1.46	2.14	6.41	1.62	1.88
-25	**(-13)**	885	223	259	122	1.64	2.78	7.27	1.83	2.13
-20	**(- 4)**	1123	283	329	136	1.79	3.53	8.23	2.07	2.41
-15	**(+ 5)**	1388	350	407	150	1.93	4.37	9.27	2.34	2.72
-10	**(+14)**	1671	421	490	162	2.08	5.27	10.35	2.61	3.03
-5	**(+23)**	1963	495	575	171	2.27	6.21	11.46	2.89	3.36
0	**(+32)**	2253	568	660	177	2.51	7.14	12.56	3.16	3.68

TEST CONDITIONS: **ASHRAE32** (Condensing temperature **45ºC (+113ºF))**
@115V4500RPM **Static**

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)**	495	125	145	94	1.25	1.55	5.27	1.33	1.54
-30	**(-22)**	652	164	191	111	1.52	2.04	5.90	1.49	1.73
-25	**(-13)**	855	215	251	128	1.73	2.68	6.65	1.68	1.95
-20	**(- 4)**	1094	276	321	146	1.92	3.44	7.49	1.89	2.19
-15	**(+ 5)**	1359	342	398	162	2.10	4.28	8.38	2.11	2.46
-10	**(+14)**	1641	414	481	176	2.30	5.18	9.32	2.35	2.73
-5	**(+23)**	1930	486	566	188	2.52	6.10	10.25	2.58	3.00
0	**(+32)**	2217	559	650	197	2.81	7.03	11.17	2.82	3.27

TEST CONDITIONS: **ASHRAE32** (Condensing temperature **55ºC (+131ºF))**
@115V4500RPM **Static**

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)**	457	115	134	95	1.29	1.43	4.79	1.21	1.40
-30	**(-22)**	605	153	177	114	1.60	1.90	5.36	1.35	1.57
-25	**(-13)**	798	201	234	132	1.85	2.50	6.04	1.52	1.77
-20	**(- 4)**	1026	259	301	151	2.08	3.22	6.79	1.71	1.99
-15	**(+ 5)**	1279	322	375	169	2.31	4.03	7.59	1.91	2.22
-10	**(+14)**	1547	390	453	184	2.54	4.88	8.40	2.12	2.46
-5	**(+23)**	1822	459	534	198	2.82	5.76	9.22	2.32	2.70
0	**(+32)**	2093	527	613	207	3.15	6.64	10.00	2.52	2.93

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 79° up + 0° back		
3.2 DISCHARGE	4.94 +0.08/-0.08	[mm]	(0.194" +0.003"/-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	Slanted 47° up + 59° to Back		
3.4 Oil cooler (Copper)	No	[mm]	
3.5 Connector sealing	Rubber Plugs		