

COMPRESSOR DEFINITION

Designation	VNE X421U
Nominal Voltage/Frequency	208-230 V 50-60 Hz
Engineering Number	866DX26

A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-290		
3 Nominal voltage and frequency	208-230 / 50-60	[V / Hz]	
4 Application type	Low-Medium Back Pressure (Light Commercial - Curves until T.Evap -		
4.1 Evaporating temperature range	-40°C to 0°C	(-40°F to 32°F)	
5 Motor type	BPM		
6 Starting torque	HST - High starting torque		
7 Expansion device	Capillary tube or Expansion valve		
8 Compressor cooling		Operating voltage range	
		50 Hz	60 Hz
8.1 LBP (32°C Ambient temperature)	Fan	-	-
8.2 LBP (43°C Ambient temperature)	Fan	-	-
8.3 HBP (32°C Ambient temperature)	-	-	-
8.4 HBP (43°C Ambient temperature)	-	-	-
9 Maximum condensing temperature			
9.1 Operating	18.4	[kgf/cm ²] (262 psig)	/ °C - °F
9.2 Peak	20.6	[kgf/cm ²] (293 psig)	/ °C - °F
10 Maximum winding temperature	130	[°C]	

B - MECHANICAL DATA

1 Commercial designation	1 1/2	[hp]
2 Displacement	21.02	[cm ³] (1.283 cu.in)
2.1 Bore [mm]	34.120	
2.2 Stroke [mm]	23.000	
3 Lubricant charge	400	[ml] (13.53 fl.oz.)
3.1 Lubricants approved		
3.2 Lubricants type/viscosity	ESTER / ISO22	
4 Weight (with oil charge)	11.3	[kg] (24.91 lb.)
5 Nitrogen charge	-	[kgf/cm ²]

C - ELECTRICAL DATA

1 Nominal Voltage/Frequency/Number of Phases	208-230 V 50-60 Hz 1 ~ (Single phase)	
2 Starting device type	Inverter	
2.1 Starting device	CF20A01 P 0.0 X	
3 Start capacitor	-	[µF(VAC minimum)]
4 Run capacitor	-	[µF(VAC minimum)]
5 Motor protection	USP-102-83	
6 Start winding resistance	1.94	[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance	1.94	[Ω at 25°C (77°F)] +/- 8%
8 LRA - Locked rotor amperage (110/250 Hz)	4.60	[A] - Measured according to UL 984
9 FLA - Full load amperage L/MBP (110/250 Hz)	4.60	[A] - Measured according to UL 984
10 FLA - Full Load Amperage HBP (110/250 Hz)	-	[A] - Measured according to UL 984
11 Approval boards certification	UL - VDE	

D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS: @220V2200RPM			ASHRAELBP32 Fan		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]
2644	666	775	445	2.05	7.87	5.95	1.50	1.74

TEST CONDITIONS: @220V3000RPM			ASHRAELBP32 Fan		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]
3678	927	1078	616	2.78	10.95	5.97	1.50	1.75

TEST CONDITIONS: @220V3600RPM			ASHRAELBP32 Fan		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]
4428	1116	1297	756	3.37	13.18	5.86	1.48	1.72

TEST CONDITIONS: @220V4500RPM			ASHRAELBP32 Fan		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]
5257	1325	1540	939	4.16	15.65	5.60	1.41	1.64

TEST CONDITIONS: @220V5000RPM			ASHRAELBP32 Fan		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]
5673	1430	1662	1050	4.63	16.89	5.40	1.36	1.58

E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V2200RPM		ASHRAE32 Fan			(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]
-40	(-40)	1297	327	380	245	1.25	3.83	5.29	1.33	1.55
-35	(-31)	1722	434	505	290	1.44	5.10	5.93	1.49	1.74
-30	(-22)	2227	561	653	335	1.63	6.60	6.63	1.67	1.94
-25	(-13)	2821	711	827	378	1.81	8.39	7.44	1.87	2.18
-20	(- 4)	3515	886	1030	418	1.98	10.49	8.40	2.12	2.46
-15	(+ 5)	4320	1089	1266	453	2.12	12.94	9.58	2.41	2.81
-10	(+14)	5247	1322	1538	480	2.23	15.79	11.01	2.77	3.23
-5	(+23)	6307	1589	1848	498	2.29	19.08	12.74	3.21	3.73
0	(+32)	7509	1892	2200	504	2.30	22.83	14.82	3.73	4.34

TEST CONDITIONS: @220V2200RPM		ASHRAE32 Fan			(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]
-40	(-40)	1168	294	342	252	1.27	3.45	4.67	1.18	1.37
-35	(-31)	1579	398	463	300	1.47	4.67	5.28	1.33	1.55
-30	(-22)	2065	520	605	351	1.68	6.12	5.87	1.48	1.72
-25	(-13)	2638	665	773	403	1.90	7.84	6.51	1.64	1.91
-20	(- 4)	3309	834	970	453	2.11	9.87	7.24	1.82	2.12
-15	(+ 5)	4087	1030	1198	501	2.30	12.24	8.09	2.04	2.37
-10	(+14)	4985	1256	1461	543	2.47	15.00	9.14	2.30	2.68
-5	(+23)	6011	1515	1761	578	2.61	18.18	10.41	2.62	3.05
0	(+32)	7178	1809	2103	603	2.70	21.82	11.95	3.01	3.50

TEST CONDITIONS: @220V2200RPM		ASHRAE32 Fan			(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]
-40	(-40)	1033	260	303	259	1.28	3.05	3.94	0.99	1.15
-35	(-31)	1419	358	416	308	1.48	4.20	4.63	1.17	1.36
-30	(-22)	1877	473	550	362	1.71	5.57	5.24	1.32	1.54
-25	(-13)	2419	610	709	420	1.95	7.19	5.82	1.47	1.71
-20	(- 4)	3055	770	895	479	2.19	9.11	6.41	1.62	1.88
-15	(+ 5)	3797	957	1113	536	2.42	11.37	7.07	1.78	2.07
-10	(+14)	4654	1173	1364	591	2.65	14.00	7.84	1.98	2.30
-5	(+23)	5638	1421	1652	641	2.85	17.05	8.76	2.21	2.57
0	(+32)	6759	1703	1981	684	3.02	20.54	9.89	2.49	2.90

E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V3000RPM		ASHRAE32 Fan			(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]
-40	(-40)	1770	446	519	341	1.65	5.23	5.19	1.31	1.52
-35	(-31)	2341	590	686	403	1.91	6.93	5.78	1.46	1.69
-30	(-22)	3016	760	884	467	2.17	8.95	6.44	1.62	1.89
-25	(-13)	3811	960	1117	528	2.42	11.33	7.20	1.81	2.11
-20	(- 4)	4740	1194	1389	585	2.65	14.14	8.11	2.04	2.38
-15	(+ 5)	5817	1466	1705	634	2.85	17.43	9.23	2.32	2.70
-10	(+14)	7058	1779	2068	672	3.00	21.24	10.58	2.67	3.10
-5	(+23)	8477	2136	2484	697	3.10	25.64	12.23	3.08	3.58
0	(+32)	10088	2542	2956	706	3.12	30.67	14.21	3.58	4.17

TEST CONDITIONS: @220V3000RPM		ASHRAE32 Fan			(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]
-40	(-40)	1626	410	477	352	1.69	4.80	4.66	1.17	1.36
-35	(-31)	2180	549	639	418	1.96	6.45	5.23	1.32	1.53
-30	(-22)	2836	715	831	489	2.26	8.41	5.79	1.46	1.70
-25	(-13)	3608	909	1057	561	2.55	10.73	6.39	1.61	1.87
-20	(- 4)	4512	1137	1322	632	2.84	13.46	7.08	1.78	2.07
-15	(+ 5)	5561	1401	1630	699	3.12	16.66	7.90	1.99	2.31
-10	(+14)	6771	1706	1984	758	3.35	20.37	8.89	2.24	2.61
-5	(+23)	8155	2055	2390	807	3.55	24.66	10.11	2.55	2.96
0	(+32)	9729	2452	2851	843	3.69	29.57	11.59	2.92	3.40

TEST CONDITIONS: @220V3000RPM		ASHRAE32 Fan			(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]
-40	(-40)	1476	372	432	364	1.72	4.36	4.00	1.01	1.17
-35	(-31)	1999	504	586	432	2.00	5.92	4.65	1.17	1.36
-30	(-22)	2622	661	768	507	2.31	7.77	5.23	1.32	1.53
-25	(-13)	3358	846	984	586	2.64	9.98	5.78	1.46	1.69
-20	(- 4)	4222	1064	1237	668	2.97	12.59	6.35	1.60	1.86
-15	(+ 5)	5229	1318	1532	749	3.30	15.66	6.97	1.76	2.04
-10	(+14)	6393	1611	1873	826	3.61	19.23	7.71	1.94	2.26
-5	(+23)	7729	1948	2265	896	3.89	23.37	8.60	2.17	2.52
0	(+32)	9252	2331	2711	956	4.13	28.12	9.68	2.44	2.84

E - PERFORMANCE - CURVES

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 35°C (+95°F))					
@220V3600RPM		Fan								
Evaporating temperature	Cooling capacity (Qe)			Input power (We)	Electric current	Mass flow rate	Efficiency EER & COP			
	+/- 5%						+/- 7%			
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	2093	527	613	415	1.95	6.18	5.05	1.27	1.48	
-35 (-31)	2760	696	809	491	2.27	8.17	5.60	1.41	1.64	
-30 (-22)	3550	895	1040	568	2.59	10.53	6.22	1.57	1.82	
-25 (-13)	4480	1129	1313	644	2.90	13.32	6.94	1.75	2.03	
-20 (- 4)	5566	1403	1631	714	3.18	16.61	7.80	1.97	2.29	
-15 (+ 5)	6827	1720	2000	775	3.43	20.45	8.85	2.23	2.59	
-10 (+14)	8279	2086	2426	823	3.62	24.92	10.14	2.56	2.97	
-5 (+23)	9938	2504	2912	854	3.74	30.06	11.71	2.95	3.43	
0 (+32)	11823	2979	3464	865	3.77	35.95	13.60	3.43	3.98	

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 45°C (+113°F))					
@220V3600RPM		Fan								
Evaporating temperature	Cooling capacity (Qe)			Input power (We)	Electric current	Mass flow rate	Efficiency EER & COP			
	+/- 5%						+/- 7%			
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	1948	491	571	428	1.99	5.75	4.59	1.16	1.34	
-35 (-31)	2598	655	761	508	2.33	7.69	5.12	1.29	1.50	
-30 (-22)	3369	849	987	595	2.69	9.99	5.65	1.42	1.66	
-25 (-13)	4278	1078	1253	684	3.06	12.72	6.22	1.57	1.82	
-20 (- 4)	5340	1346	1565	771	3.41	15.93	6.87	1.73	2.01	
-15 (+ 5)	6575	1657	1926	853	3.75	19.69	7.65	1.93	2.24	
-10 (+14)	7997	2015	2343	926	4.04	24.07	8.60	2.17	2.52	
-5 (+23)	9625	2426	2820	987	4.29	29.11	9.76	2.46	2.86	
0 (+32)	11476	2892	3363	1031	4.46	34.89	11.17	2.82	3.27	

TEST CONDITIONS:		ASHRAE32			(Condensing temperature 55°C (+131°F))					
@220V3600RPM		Fan								
Evaporating temperature	Cooling capacity (Qe)			Input power (We)	Electric current	Mass flow rate	Efficiency EER & COP			
	+/- 5%						+/- 7%			
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	1797	453	527	443	2.03	5.30	4.01	1.01	1.17	
-35 (-31)	2414	608	708	525	2.38	7.14	4.62	1.17	1.35	
-30 (-22)	3150	794	923	616	2.76	9.34	5.17	1.30	1.51	
-25 (-13)	4020	1013	1178	713	3.16	11.95	5.69	1.43	1.67	
-20 (- 4)	5042	1270	1477	813	3.57	15.04	6.23	1.57	1.82	
-15 (+ 5)	6232	1571	1826	912	3.98	18.66	6.82	1.72	2.00	
-10 (+14)	7609	1917	2230	1007	4.37	22.89	7.53	1.90	2.21	
-5 (+23)	9189	2316	2693	1092	4.72	27.78	8.38	2.11	2.46	
0 (+32)	10989	2769	3220	1166	5.02	33.40	9.43	2.38	2.76	

E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V4500RPM		ASHRAE32 Fan			(Condensing temperature 35°C (+95°F))					
Evaporating temperature	Cooling capacity (Qe)			Input power (We)	Electric current	Mass flow rate	Efficiency EER & COP			
	+/- 5%						+/- 5%	+/- 5%	+/- 7%	
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	2492	628	730	525	2.40	7.36	4.75	1.20	1.39	
-35 (-31)	3278	826	960	623	2.81	9.70	5.24	1.32	1.54	
-30 (-22)	4208	1060	1233	724	3.23	12.48	5.79	1.46	1.70	
-25 (-13)	5302	1336	1554	823	3.64	15.77	6.42	1.62	1.88	
-20 (- 4)	6582	1659	1929	915	4.02	19.64	7.19	1.81	2.11	
-15 (+ 5)	8066	2033	2364	996	4.35	24.17	8.13	2.05	2.38	
-10 (+14)	9777	2464	2865	1061	4.61	29.43	9.28	2.34	2.72	
-5 (+23)	11733	2957	3438	1104	4.78	35.49	10.69	2.69	3.13	
0 (+32)	13956	3517	4089	1121	4.84	42.43	12.39	3.12	3.63	

TEST CONDITIONS: @220V4500RPM		ASHRAE32 Fan			(Condensing temperature 45°C (+113°F))					
Evaporating temperature	Cooling capacity (Qe)			Input power (We)	Electric current	Mass flow rate	Efficiency EER & COP			
	+/- 5%						+/- 5%	+/- 5%	+/- 7%	
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	2362	595	692	541	2.45	6.97	4.40	1.11	1.29	
-35 (-31)	3134	790	918	644	2.89	9.27	4.88	1.23	1.43	
-30 (-22)	4049	1020	1186	755	3.36	12.01	5.36	1.35	1.57	
-25 (-13)	5127	1292	1502	870	3.85	15.24	5.87	1.48	1.72	
-20 (- 4)	6388	1610	1872	983	4.32	19.06	6.45	1.63	1.89	
-15 (+ 5)	7854	1979	2301	1091	4.77	23.53	7.15	1.80	2.09	
-10 (+14)	9543	2405	2796	1187	5.16	28.72	8.00	2.02	2.35	
-5 (+23)	11478	2892	3363	1268	5.49	34.71	9.06	2.28	2.65	
0 (+32)	13678	3447	4008	1327	5.73	41.58	10.34	2.61	3.03	

TEST CONDITIONS: @220V4500RPM		ASHRAE32 Fan			(Condensing temperature 55°C (+131°F))					
Evaporating temperature	Cooling capacity (Qe)			Input power (We)	Electric current	Mass flow rate	Efficiency EER & COP			
	+/- 5%						+/- 5%	+/- 5%	+/- 7%	
°C (°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]	
-40 (-40)	2229	562	653	561	2.52	6.58	3.93	0.99	1.15	
-35 (-31)	2967	748	869	664	2.96	8.78	4.49	1.13	1.31	
-30 (-22)	3845	969	1127	780	3.46	11.40	4.98	1.25	1.46	
-25 (-13)	4886	1231	1432	905	3.99	14.52	5.45	1.37	1.60	
-20 (- 4)	6108	1539	1790	1034	4.54	18.22	5.93	1.49	1.74	
-15 (+ 5)	7533	1898	2207	1162	5.08	22.56	6.48	1.63	1.90	
-10 (+14)	9182	2314	2690	1285	5.59	27.62	7.12	1.79	2.09	
-5 (+23)	11073	2790	3245	1397	6.06	33.48	7.90	1.99	2.32	
0 (+32)	13229	3334	3876	1494	6.46	40.21	8.86	2.23	2.60	

E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V5000RPM		ASHRAE32 Fan			(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]
-40	(-40)	2653	668	777	585	2.65	7.83	4.54	1.14	1.33
-35	(-31)	3487	879	1022	697	3.13	10.32	4.99	1.26	1.46
-30	(-22)	4475	1128	1311	812	3.61	13.27	5.49	1.38	1.61
-25	(-13)	5637	1421	1652	926	4.09	16.76	6.07	1.53	1.78
-20	(- 4)	6996	1763	2050	1033	4.54	20.88	6.78	1.71	1.99
-15	(+ 5)	8573	2160	2512	1126	4.92	25.68	7.64	1.93	2.24
-10	(+14)	10390	2618	3044	1201	5.23	31.27	8.71	2.19	2.55
-5	(+23)	12468	3142	3653	1252	5.44	37.71	10.01	2.52	2.93
0	(+32)	14829	3737	4345	1273	5.51	45.09	11.59	2.92	3.40

TEST CONDITIONS: @220V5000RPM		ASHRAE32 Fan			(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]
-40	(-40)	2541	640	744	601	2.72	7.50	4.25	1.07	1.25
-35	(-31)	3364	848	986	718	3.22	9.95	4.70	1.18	1.38
-30	(-22)	4339	1093	1271	844	3.76	12.87	5.14	1.29	1.50
-25	(-13)	5489	1383	1609	975	4.32	16.32	5.61	1.41	1.64
-20	(- 4)	6836	1723	2003	1105	4.87	20.39	6.15	1.55	1.80
-15	(+ 5)	8400	2117	2461	1228	5.39	25.16	6.80	1.71	1.99
-10	(+14)	10204	2571	2990	1338	5.85	30.71	7.59	1.91	2.22
-5	(+23)	12268	3092	3595	1431	6.24	37.10	8.57	2.16	2.51
0	(+32)	14616	3683	4283	1501	6.53	44.43	9.77	2.46	2.86

TEST CONDITIONS: @220V5000RPM		ASHRAE32 Fan			(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]
-40	(-40)	2429	612	712	626	2.79	7.17	3.85	0.97	1.13
-35	(-31)	3216	811	942	739	3.29	9.52	4.36	1.10	1.28
-30	(-22)	4157	1048	1218	870	3.86	12.33	4.82	1.21	1.41
-25	(-13)	5272	1328	1545	1011	4.48	15.67	5.26	1.32	1.54
-20	(- 4)	6582	1659	1929	1157	5.11	19.63	5.71	1.44	1.67
-15	(+ 5)	8110	2044	2376	1303	5.74	24.29	6.22	1.57	1.82
-10	(+14)	9877	2489	2894	1443	6.34	29.72	6.82	1.72	2.00
-5	(+23)	11905	3000	3489	1572	6.89	36.00	7.55	1.90	2.21
0	(+32)	14216	3582	4166	1683	7.36	43.21	8.45	2.13	2.48

F - EXTERNAL CHARACTERISTICS

1 Base plate	Universal
2 Tray holder	No
3 Connectors	
3.1 SUCTION	8.1 +0.10/+0.00 [mm] (0.319" +0.004"/+0.000")
3.1.1 Material	Copper
3.1.2 Shape	Slanted 42°
3.2 DISCHARGE	6.45 +0.10/+0.00 [mm] (0.254" +0.004"/+0.000")
3.2.1 Material	Copper
3.2.2 Shape	Slanted parallel to Base Plate
3.3 PROCESS	6.45 +0.10/+0.00 [mm] (0.254" +0.004"/+0.000")
3.3.1 Material	Copper
3.3.2 Shape	Slanted 42°
3.4 Oil cooler (Copper)	No [mm]
3.5 Connector sealing	Rubber Plugs