

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 - Hight 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			ARILBP Fan		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 48.9°C (120.02°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]
2172	547	637	428	1.98	8.82	5.08	1.28	1.49

TEST CONDITIONS: @220V3000RPM			ARILBP Fan		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 48.9°C (120.02°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]
3011	759	882	599	2.70	12.23	5.03	1.27	1.47

TEST CONDITIONS: @220V3600RPM			ARILBP Fan		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 48.9°C (120.02°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]
3610	910	1058	740	3.30	14.66	4.88	1.23	1.43

TEST CONDITIONS: @220V4500RPM			ARILBP Fan		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 48.9°C (120.02°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]
4277	1078	1253	923	4.10	17.37	4.64	1.17	1.36

TEST CONDITIONS: @220V5000RPM			ARILBP Fan		Evaporating temperature (Condensing temperature)		-23.3°C (-9.94°F) 48.9°C (120.02°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]
4607	1161	1350	1027	4.54	18.71	4.49	1.13	1.32

E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V2200RPM		ARI4 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)	1162	293	340	246	1.19	4.01	4.72	1.19	1.38
-35	(-31)	1552	391	455	290	1.39	5.42	5.32	1.34	1.56
-30	(-22)	2016	508	591	336	1.58	7.07	5.98	1.51	1.75
-25	(-13)	2566	647	752	380	1.77	9.02	6.73	1.70	1.97
-20	(- 4)	3211	809	941	421	1.94	11.33	7.63	1.92	2.24
-15	(+ 5)	3960	998	1160	457	2.09	14.07	8.71	2.20	2.55
-10	(+14)	4824	1216	1414	485	2.21	17.28	10.03	2.53	2.94
-5	(+23)	5812	1465	1703	503	2.28	21.03	11.62	2.93	3.40
0	(+32)	6934	1747	2032	510	2.30	25.38	13.52	3.41	3.96

TEST CONDITIONS: @220V2200RPM		ARI4 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)	943	238	276	250	1.23	3.60	3.81	0.96	1.12
-35	(-31)	1295	326	379	299	1.44	4.98	4.34	1.09	1.27
-30	(-22)	1710	431	501	351	1.66	6.61	4.86	1.22	1.42
-25	(-13)	2199	554	644	404	1.88	8.53	5.39	1.36	1.58
-20	(- 4)	2770	698	812	457	2.10	10.81	6.00	1.51	1.76
-15	(+ 5)	3435	865	1006	506	2.30	13.51	6.72	1.69	1.97
-10	(+14)	4201	1059	1231	550	2.48	16.68	7.59	1.91	2.23
-5	(+23)	5081	1280	1489	586	2.62	20.39	8.67	2.18	2.54
0	(+32)	6083	1533	1782	612	2.73	24.70	9.99	2.52	2.93

TEST CONDITIONS: @220V2200RPM		ARI4 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)	735	185	215	255	1.29	3.16	2.83	0.71	0.83
-35	(-31)	1046	264	306	306	1.50	4.51	3.43	0.86	1.00
-30	(-22)	1408	355	413	363	1.74	6.09	3.93	0.99	1.15
-25	(-13)	1832	462	537	424	1.98	7.98	4.38	1.10	1.28
-20	(- 4)	2326	586	682	485	2.23	10.21	4.83	1.22	1.41
-15	(+ 5)	2902	731	850	546	2.48	12.87	5.31	1.34	1.56
-10	(+14)	3568	899	1045	603	2.71	16.00	5.88	1.48	1.72
-5	(+23)	4335	1092	1270	656	2.92	19.66	6.58	1.66	1.93
0	(+32)	5212	1313	1527	700	3.10	23.92	7.45	1.88	2.18

E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V3000RPM		ARI4 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)	1610	406	472	347	1.62	5.56	4.64	1.17	1.36
-35	(-31)	2126	536	623	409	1.89	7.42	5.18	1.31	1.52
-30	(-22)	2741	691	803	472	2.16	9.61	5.78	1.46	1.70
-25	(-13)	3469	874	1016	534	2.42	12.19	6.48	1.63	1.90
-20	(- 4)	4322	1089	1266	592	2.66	15.25	7.31	1.84	2.14
-15	(+ 5)	5314	1339	1557	642	2.87	18.87	8.32	2.10	2.44
-10	(+14)	6457	1627	1892	682	3.04	23.13	9.55	2.41	2.80
-5	(+23)	7766	1957	2276	708	3.14	28.10	11.04	2.78	3.23
0	(+32)	9252	2332	2711	717	3.17	33.86	12.83	3.23	3.76

TEST CONDITIONS: @220V3000RPM		ARI4 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)	1331	335	390	355	1.67	5.09	3.79	0.95	1.11
-35	(-31)	1797	453	527	422	1.95	6.92	4.27	1.08	1.25
-30	(-22)	2347	592	688	493	2.25	9.07	4.75	1.20	1.39
-25	(-13)	2994	755	877	567	2.56	11.61	5.24	1.32	1.54
-20	(- 4)	3751	945	1099	639	2.86	14.63	5.81	1.46	1.70
-15	(+ 5)	4631	1167	1357	708	3.14	18.21	6.48	1.63	1.90
-10	(+14)	5646	1423	1654	769	3.39	22.42	7.30	1.84	2.14
-5	(+23)	6811	1716	1996	820	3.60	27.34	8.31	2.09	2.43
0	(+32)	8138	2051	2385	857	3.74	33.05	9.55	2.41	2.80

TEST CONDITIONS: @220V3000RPM		ARI4 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)	1067	269	313	365	1.75	4.59	2.88	0.72	0.84
-35	(-31)	1478	373	433	434	2.03	6.38	3.43	0.86	1.00
-30	(-22)	1958	493	574	510	2.35	8.47	3.89	0.98	1.14
-25	(-13)	2519	635	738	592	2.69	10.97	4.31	1.09	1.26
-20	(- 4)	3174	800	930	676	3.04	13.94	4.72	1.19	1.38
-15	(+ 5)	3936	992	1153	760	3.38	17.46	5.18	1.30	1.52
-10	(+14)	4818	1214	1412	840	3.70	21.61	5.71	1.44	1.67
-5	(+23)	5834	1470	1709	913	3.99	26.46	6.36	1.60	1.86
0	(+32)	6996	1763	2050	975	4.24	32.11	7.18	1.81	2.10

E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V3600RPM		ARI4 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)	1924	485	564	426	1.94	6.65	4.51	1.14	1.32
-35	(-31)	2522	635	739	501	2.27	8.81	5.02	1.27	1.47
-30	(-22)	3234	815	948	578	2.60	11.34	5.58	1.41	1.63
-25	(-13)	4077	1028	1195	654	2.92	14.33	6.22	1.57	1.82
-20	(- 4)	5066	1277	1484	725	3.22	17.88	6.99	1.76	2.05
-15	(+ 5)	6215	1566	1821	788	3.48	22.08	7.94	2.00	2.33
-10	(+14)	7541	1900	2210	837	3.69	27.01	9.08	2.29	2.66
-5	(+23)	9057	2282	2654	869	3.82	32.77	10.48	2.64	3.07
0	(+32)	10780	2717	3159	881	3.86	39.45	12.17	3.07	3.57

TEST CONDITIONS: @220V3600RPM		ARI4 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)	1611	406	472	436	2.00	6.16	3.73	0.94	1.09
-35	(-31)	2151	542	630	515	2.33	8.28	4.19	1.05	1.23
-30	(-22)	2788	703	817	601	2.70	10.77	4.63	1.17	1.36
-25	(-13)	3537	891	1037	690	3.07	13.72	5.09	1.28	1.49
-20	(- 4)	4414	1112	1293	779	3.44	17.22	5.61	1.41	1.64
-15	(+ 5)	5433	1369	1592	863	3.79	21.37	6.24	1.57	1.83
-10	(+14)	6610	1666	1937	938	4.10	26.25	7.01	1.77	2.05
-5	(+23)	7960	2006	2333	1000	4.35	31.95	7.96	2.01	2.33
0	(+32)	9498	2394	2783	1046	4.54	38.57	9.13	2.30	2.68

TEST CONDITIONS: @220V3600RPM		ARI4 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)	1313	331	385	450	2.10	5.65	2.88	0.73	0.84
-35	(-31)	1790	451	525	530	2.43	7.72	3.39	0.86	0.99
-30	(-22)	2346	591	687	621	2.81	10.15	3.83	0.96	1.12
-25	(-13)	2995	755	878	719	3.22	13.04	4.21	1.06	1.23
-20	(- 4)	3754	946	1100	821	3.64	16.48	4.60	1.16	1.35
-15	(+ 5)	4637	1168	1359	923	4.06	20.57	5.02	1.27	1.47
-10	(+14)	5659	1426	1658	1020	4.45	25.38	5.52	1.39	1.62
-5	(+23)	6837	1723	2003	1109	4.81	31.01	6.13	1.55	1.80
0	(+32)	8184	2062	2398	1186	5.12	37.56	6.90	1.74	2.02

E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V4500RPM		ARI4 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)	2326	586	682	545	2.43	8.04	4.26	1.07	1.25
-35	(-31)	3017	760	884	640	2.85	10.53	4.70	1.18	1.38
-30	(-22)	3843	968	1126	740	3.28	13.47	5.17	1.30	1.52
-25	(-13)	4819	1215	1412	839	3.71	16.94	5.73	1.44	1.68
-20	(- 4)	5965	1503	1748	932	4.10	21.06	6.41	1.61	1.88
-15	(+ 5)	7297	1839	2138	1014	4.45	25.92	7.23	1.82	2.12
-10	(+14)	8834	2226	2588	1080	4.73	31.64	8.24	2.08	2.42
-5	(+23)	10591	2669	3103	1124	4.92	38.32	9.48	2.39	2.78
0	(+32)	12588	3172	3688	1141	4.99	46.06	10.97	2.76	3.21

TEST CONDITIONS: @220V4500RPM		ARI4 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)	1981	499	581	556	2.48	7.58	3.59	0.91	1.05
-35	(-31)	2606	657	764	655	2.91	10.03	3.99	1.00	1.17
-30	(-22)	3343	843	980	764	3.38	12.91	4.37	1.10	1.28
-25	(-13)	4211	1061	1234	878	3.86	16.33	4.76	1.20	1.40
-20	(- 4)	5227	1317	1532	992	4.34	20.39	5.22	1.32	1.53
-15	(+ 5)	6409	1615	1878	1101	4.80	25.20	5.77	1.45	1.69
-10	(+14)	7773	1959	2278	1199	5.21	30.86	6.45	1.62	1.89
-5	(+23)	9338	2353	2736	1281	5.55	37.48	7.29	1.84	2.14
0	(+32)	11121	2803	3259	1342	5.81	45.16	8.33	2.10	2.44

TEST CONDITIONS: @220V4500RPM		ARI4 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)	1654	417	485	576	2.60	7.12	2.84	0.72	0.83
-35	(-31)	2204	556	646	673	3.01	9.51	3.29	0.83	0.96
-30	(-22)	2846	717	834	786	3.49	12.32	3.66	0.92	1.07
-25	(-13)	3598	907	1054	909	4.01	15.67	4.00	1.01	1.17
-20	(- 4)	4477	1128	1312	1038	4.55	19.66	4.34	1.09	1.27
-15	(+ 5)	5500	1386	1612	1168	5.10	24.39	4.71	1.19	1.38
-10	(+14)	6685	1685	1959	1293	5.61	29.98	5.15	1.30	1.51
-5	(+23)	8050	2029	2359	1408	6.09	36.51	5.69	1.43	1.67
0	(+32)	9612	2422	2816	1507	6.50	44.11	6.38	1.61	1.87

E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V5000RPM		ARI4 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)	2500	630	733	611	2.71	8.64	4.09	1.03	1.20
-35	(-31)	3226	813	945	718	3.18	11.26	4.48	1.13	1.31
-30	(-22)	4092	1031	1199	831	3.68	14.34	4.91	1.24	1.44
-25	(-13)	5117	1290	1500	944	4.17	17.99	5.41	1.36	1.59
-20	(- 4)	6321	1593	1852	1051	4.63	22.31	6.02	1.52	1.76
-15	(+ 5)	7720	1945	2262	1145	5.04	27.42	6.77	1.71	1.98
-10	(+14)	9334	2352	2735	1222	5.37	33.43	7.69	1.94	2.25
-5	(+23)	11180	2817	3276	1274	5.59	40.45	8.82	2.22	2.59
0	(+32)	13278	3346	3891	1296	5.69	48.59	10.19	2.57	2.99

TEST CONDITIONS: @220V5000RPM		ARI4 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)	2149	542	630	622	2.75	8.22	3.48	0.88	1.02
-35	(-31)	2804	707	822	732	3.23	10.79	3.84	0.97	1.13
-30	(-22)	3578	902	1048	853	3.76	13.82	4.18	1.05	1.23
-25	(-13)	4489	1131	1315	982	4.31	17.41	4.55	1.15	1.33
-20	(- 4)	5556	1400	1628	1111	4.86	21.68	4.96	1.25	1.45
-15	(+ 5)	6797	1713	1992	1234	5.39	26.73	5.46	1.38	1.60
-10	(+14)	8230	2074	2412	1346	5.87	32.68	6.08	1.53	1.78
-5	(+23)	9874	2488	2893	1441	6.27	39.63	6.85	1.73	2.01
0	(+32)	11747	2960	3442	1512	6.57	47.70	7.81	1.97	2.29

TEST CONDITIONS: @220V5000RPM		ARI4 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)	1816	458	532	644	2.87	7.82	2.79	0.70	0.82
-35	(-31)	2393	603	701	749	3.32	10.32	3.20	0.81	0.94
-30	(-22)	3066	773	898	873	3.86	13.27	3.54	0.89	1.04
-25	(-13)	3854	971	1129	1011	4.45	16.79	3.85	0.97	1.13
-20	(- 4)	4777	1204	1400	1156	5.07	20.98	4.16	1.05	1.22
-15	(+ 5)	5851	1474	1714	1302	5.69	25.95	4.49	1.13	1.32
-10	(+14)	7096	1788	2079	1443	6.28	31.82	4.90	1.23	1.43
-5	(+23)	8529	2149	2499	1574	6.83	38.69	5.40	1.36	1.58
0	(+32)	10170	2563	2980	1687	7.31	46.67	6.03	1.52	1.77

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		