

COMPRESSOR DEFINITION

Designation	NE U6210GK
Nominal Voltage/Frequency	220-240 V 50 Hz
Engineering Number	958IA51

A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-404A		
3 Nominal voltage and frequency	220-240 / 50	[V / Hz]	
4 Application type	Medium Back Pressure (Commercial Compressors)		
4.1 Evaporating temperature range	-20°C to 10°C	(-4°F to 50°F)	
5 Motor type	CSIR		
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)	-	-	-
8.2 LBP (43°C Ambient temperature)	-	-	-
8.3 HBP (32°C Ambient temperature)	-	-	-
8.4 HBP (43°C Ambient temperature)	-	-	-
9 Maximum condensing pressures/temperature			
9.1 Operating (gauge)	25,2	[kgf/cm ²] (358 psig)	/ °C - °F
9.2 Peak (gauge)	28,3	[kgf/cm ²] (402 psig)	
10 Maximum winding temperature	130	[°C]	

B - MECHANICAL DATA

1 Commercial designation	1/3	[hp]
2 Displacement	7,28	[cm ³] (0.444 cu.in)
2.1 Bore [mm]	26,497	
2.2 Stroke [mm]	13,200	
3 Lubricant charge	350	[ml] (11.84 fl.oz.)
3.1 Lubricants approved		
3.2 Lubricants type/viscosity	ESTER / ISO22	
4 Weight (with oil charge)	10	[kg] (22.05 lb.)
5 Nitrogen charge	0.2 to 0.3	[kgf/cm ²] (2.84 to 4.27 psig)

C - ELETRICAL DATA

1 Nominal Voltage/Frequency/Number of Phases	220-240 V 50 Hz 1 ~ (Single phase)	
2 Starting device type	Current Relay	
2.1 Starting device	MTRP-0029	
3 Start capacitor	53-64(330)	[µF(VAC minimum)]
4 Run capacitor	-	[µF(VAC minimum)]
5 Motor protection	T1026	
6 Start winding resistance	28.84	[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance	6.67	[Ω at 25°C (77°F)] +/- 8%
8 LRA - Locked rotor amperage (50 Hz)	16.00	[A] - Measured according to UL 984
9 FLA - Full load amperage L/MBP (50 Hz)	2.69	[A] - Measured according to UL 984
10 FLA - Full Load Amperage HBP (50 Hz)	-	[A] - Measured according to UL 984
11 Approval boards certification	VDE	

D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS: @220V50Hz			EN12900MBP_HH Fan		Evaporating temperature (Condensing temperature		-10°C (14°F) 45°C (113°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]
2201	555	645	366	2,36	17,73	6,01	1,51	1,76

E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V50Hz			EN12900HH Fan		(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]
-20	(- 4)	1670	421	489	288	2,14	11,75	5,79	1,46	1,70
-15	(+ 5)	2110	532	618	313	2,21	14,97	6,74	1,70	1,97
-10	(+14)	2623	661	769	336	2,27	18,75	7,81	1,97	2,29
-5	(+23)	3209	809	940	357	2,34	23,12	9,00	2,27	2,64
0	(+32)	3868	975	1133	376	2,40	28,14	10,30	2,60	3,02
+5	(+41)	4599	1159	1348	392	2,46	33,87	11,73	2,95	3,44
+10	(+50)	5403	1362	1583	407	2,52	40,34	13,27	3,34	3,89

TEST CONDITIONS: @220V50Hz			EN12900HH Fan		(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]
-20	(- 4)	1394	351	408	305	2,19	11,07	4,59	1,16	1,34
-15	(+ 5)	1766	445	517	336	2,27	14,11	5,25	1,32	1,54
-10	(+14)	2201	555	645	366	2,36	17,72	6,00	1,51	1,76
-5	(+23)	2700	680	791	395	2,45	21,94	6,82	1,72	2,00
0	(+32)	3262	822	956	422	2,55	26,81	7,71	1,94	2,26
+5	(+41)	3887	980	1139	448	2,65	32,40	8,69	2,19	2,55
+10	(+50)	4576	1153	1341	471	2,76	38,75	9,73	2,45	2,85

TEST CONDITIONS: @220V50Hz			EN12900HH Fan		(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]
-20	(- 4)	1107	279	324	318	2,24	10,18	3,47	0,87	1,02
-15	(+ 5)	1415	357	415	356	2,34	13,12	3,98	1,00	1,17
-10	(+14)	1777	448	521	394	2,45	16,62	4,52	1,14	1,33
-5	(+23)	2192	553	642	430	2,58	20,74	5,11	1,29	1,50
0	(+32)	2662	671	780	465	2,71	25,54	5,73	1,44	1,68
+5	(+41)	3186	803	933	499	2,86	31,05	6,38	1,61	1,87
+10	(+50)	3763	948	1103	532	3,01	37,33	7,06	1,78	2,07

F - EXTERNAL CHARACTERISTICS

1 Base plate	European Standard		
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	6,1 +0.10/+0.00	[mm]	(0.240" +0.004"/+0.000")
3.2.1 Material	Copper		
3.2.2 Shape	Straight		
3.3 PROCESS	6,1 +0.10/+0.00	[mm]	(0.240" +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		