



Model: NT6220Z  
Code: 212CN06

**embraco** POWER IN.  
CHANGE ON

Type:	On-off
Voltage [V] / Frequency [Hz] / Phases	200-240 V 50 Hz / 230 V 60 Hz
Refrigerant:	R-134a
Application:	HBP

Motor type:	CSIR
Starting torque:	HST
HP:	1
Displacement:	22.37 cm <sup>3</sup>

### OPERATING CONDITION : ARI HBP

Evaporation Temp.	7.2 °C	Return Temp.	18.3 °C	Superheating	11.1 K
Condensing Temp.	54.4 °C	Liquid Temp.	54.4 °C	Subcooling	0.0 K

<b>Cooling capacity</b>	<b>Power consumption</b>	<b>Mass flow rate</b>	<b>Efficiency</b>
1,780.74 W	912.95 W	47.68 kg/h	1.95 W/W

### APPLICATION

Evaporating temperature range:	-15 to 10 °C	Cooling type:	Fan Cooling
Permanent operating temperature (peak) :	60 (70) °C	Air Flow	--
Expansion device:	Capillary tube or Expansion valve	Maximum motor temperature:	130 °C

### ELECTRICAL DATA

Start winding resistance at 25°C (77°F):	12.16 Ω +/- 8%	Run winding resistance at 25°C (77°F):	1.86 Ω +/- 8%
FLA - full load amperage L/MBP [A] 50 Hz / 60 Hz:	- / -	LRA (A) 50 Hz / 60 Hz:	- / -
		FLA - full load amperage HBP [A] 50 Hz / 60 Hz:	- / -

### MECHANICAL DATA

Bore:	36.99 mm	Stroke:	10.42 mm
		Displacement:	22.37 cm <sup>3</sup>

### OTHER INFORMATION

Weight:	17.2 kg	Oil charge:	450 ml
Lubricant type:	Polyolester ISO22	Nitrogen charge:	Yes

### EXTERNAL SETTINGS

-	Shape	Material	Diameter [mm]
Suction connector	Slanted 42°	Copper	9.60
Discharge connector	Straight	Copper	6.42
Process connector	Vertical	Copper	6.42
Base plate:	Universal	Tray holder:	No

### PERFORMANCES AT STANDARD CHECK-POINTS

Checkpoint	Cooling capacity	Power consumption	Gas flow rate	Cooling Efficiency	Heating capacity +/-	Heating Efficiency
	+/-5%	+/-5%	+/-5%	+/- 7%	5% *	+/- 7%
	W	W	kg/h	W/W	W	W/W
EN12900 HBP	1,763.59	833.20	44.24	2.12	2,130.87	2.56
EN12900 MBP	1,008.42	577.28	23.52	1.75	1,284.28	2.22

\* Calculations performed considering isentropic compression and a housing loss of 10%. This is an estimated heat amount discarded in the discharge pipe and the condenser combined.

**CONDENSING TEMP. 35 °C****(SUBCOOLING : 0 K, RETURN TEMP.: 32 °C)**

Evaporating temperature °C	Cooling capacity	Power consumption	Gas flow rate	Cooling Efficiency	Heating capacity +/-	Heating Efficiency
	+/-5%	+/-5%	+/-5%	+/- 7%	5% *	+/- 7%
	W	W	kg/h	W/W	W	W/W
-15.00	938.38	469.93	18.72	2.00	1,162.72	2.47
-10.00	1,172.64	517.17	23.48	2.27	1,416.13	2.74
-5.00	1,463.71	567.59	29.44	2.58	1,724.55	3.04
0.00	1,820.86	617.99	36.81	2.95	2,095.10	3.39
5.00	2,252.67	663.26	45.81	3.40	2,533.62	3.82
10.00	2,768.14	696.28	56.70	3.98	3,046.15	4.37

**CONDENSING TEMP. 45 °C****(SUBCOOLING : 0 K, RETURN TEMP.: 32 °C)**

Evaporating temperature °C	Cooling capacity	Power consumption	Gas flow rate	Cooling Efficiency	Heating capacity +/-	Heating Efficiency
	+/-5%	+/-5%	+/-5%	+/- 7%	5% *	+/- 7%
	W	W	kg/h	W/W	W	W/W
-15.00	831.53	500.77	18.09	1.66	1,084.41	2.17
-10.00	1,034.55	557.91	22.59	1.85	1,312.83	2.35
-5.00	1,281.00	620.18	28.11	2.07	1,583.39	2.55
0.00	1,584.47	687.72	34.96	2.30	1,909.57	2.78
5.00	1,955.30	757.87	43.43	2.58	2,299.79	3.03
10.00	2,402.74	825.82	53.78	2.91	2,760.63	3.34

**CONDENSING TEMP. 55 °C****(SUBCOOLING : 0 K, RETURN TEMP.: 32 °C)**

Evaporating temperature °C	Cooling capacity	Power consumption	Gas flow rate	Cooling Efficiency	Heating capacity +/-	Heating Efficiency
	+/-5%	+/-5%	+/-5%	+/- 7%	5% *	+/- 7%
	W	W	kg/h	W/W	W	W/W
-15.00	698.18	513.35	16.76	1.36	964.03	1.88
-10.00	895.34	588.70	21.59	1.52	1,200.77	2.04
-5.00	1,109.37	663.09	26.89	1.67	1,446.56	2.18
0.00	1,363.74	743.39	33.25	1.83	1,730.67	2.33
5.00	1,673.71	831.22	41.11	2.01	2,069.18	2.49
10.00	2,050.60	924.86	50.80	2.22	2,471.92	2.67

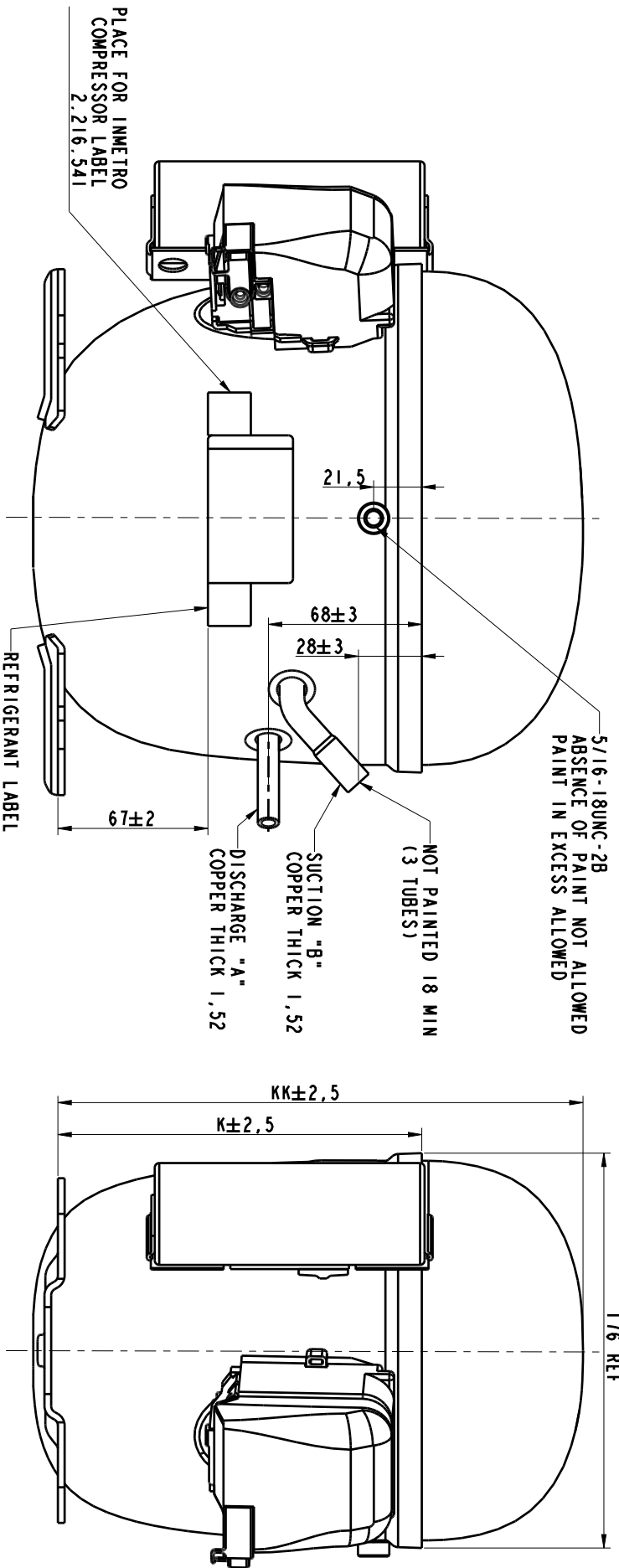
**ELECTRICAL ACCESSORIES**

<b>Kit:</b>	1
<b>Starter device:</b>	CURRENT RELAY
<b>Engineering code:</b>	MTRPH-55
<b>Run capacitor:</b>	--
<b>Starting capacitor:</b>	88-108

**Thermal protector:** T0901/G6**Institutes approved for this electric kit:**

If purchased without electricals consult Embraco to verify the supplier of electricals approved for this compressor

**MECHANICAL ACCESSORIES****Rubber damper:** Yes**Metal bushing:** Optional



ECM	REVISION	LO	BY	APP	DATE
..	ADDED HANGER TAB	..	..	..	21.11.2005
507590	1 RELEASED	..	PV	VP	16.03.2006
511948	2 ADDED VOLTAGE C FOR NT6215Z	..	MR	RR	24.6.2008
513311	3 ERASED HANGER TAB CANCELLED DIMENSION "H" CANCELLED COLUMN "H" TAB	..	AP	RR	12.03.2009
517385	4 PROCESS TUBE CHANGED	TAB	LF	JK	13.05.2011
305537	5 ADDED INMETRO LABEL	C6	DG	MG	31.07.2013

KK	K	A	B	C	SHELLTYPE	MODELS
234	162.5					213.06
220	148.5	1. D. 6.42-6.5 X23 DEEP	1. D. 9.6-9.67 X22 DEEP	1. D. 6.42-6.5 X23 DEEP	212.06	NT6215Z (N) NT6217Z (N)
207	135.5				211.06	NT6215Z (G/C)

MATERIAL :  
CODE :  
DRAWN : P. VALERO 01.04.2005  
APP. : VALERO 01.04.2005  
ECM : ECM, NUMBER

NAME  
**embraco**  
NT EXTERNAL VIEW  
CSIR PIN FUSITE

GEN. TOL. :  
ANG. TOL. :  
SCALE : 1:2  
REPLACE  
No. 1.960.884

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