



Model: NT6222GK  
Code: 922CA04

**embraco** POWER IN.  
CHANGE ON

Type:	On-off
Voltage [V] / Frequency [Hz] / Phases	220-240 V 50 Hz 1 ~
Refrigerant:	R-404A
Application:	MBP

Motor type:	
Starting torque:	HST
HP:	1
Displacement:	17.39 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>
2,027.11 W	1,117.23 W	76.88 kg/h	1.81 W/W

### APPLICATION

Evaporating temperature range:	-20 to 10 °C	Cooling type:	Fan Cooling
Permanent operating temperature (peak) :	55 (60) °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):	9 Ω +/- 8%	Run winding resistance at 25°C (77°F):	2.3 Ω +/- 8%
FLA - full load amperage L/MBP [A] 50 Hz / 60 Hz:	- / -	LRA (A) 50 Hz / 60 Hz:	30 / -
		FLA - full load amperage HBP [A] 50 Hz / 60 Hz:	- / -

### MECHANICAL DATA

Bore:	34.12 mm	Stroke:	9.52 mm
		Displacement:	17.39 cm <sup>3</sup>

### OTHER INFORMATION

Weight:	17.2 kg	Oil charge:	450 ml
Lubricant type:	Polyolester ISO22	Nitrogen charge:	No

### EXTERNAL SETTINGS

	Shape	Material	Diameter [mm]
Suction connector	Vertical	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% W	+/-5% W	+/-5% kg/h	+/- 7% W/W	5%* W	+/- 7% W/W
EN12900 HBP	2,109.79	1,044.74	71.74	2.02	2,617.16	2.51
EN12900 MBP	1,306.77	824.01	39.24	1.59	1,706.98	2.07

\* 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)**

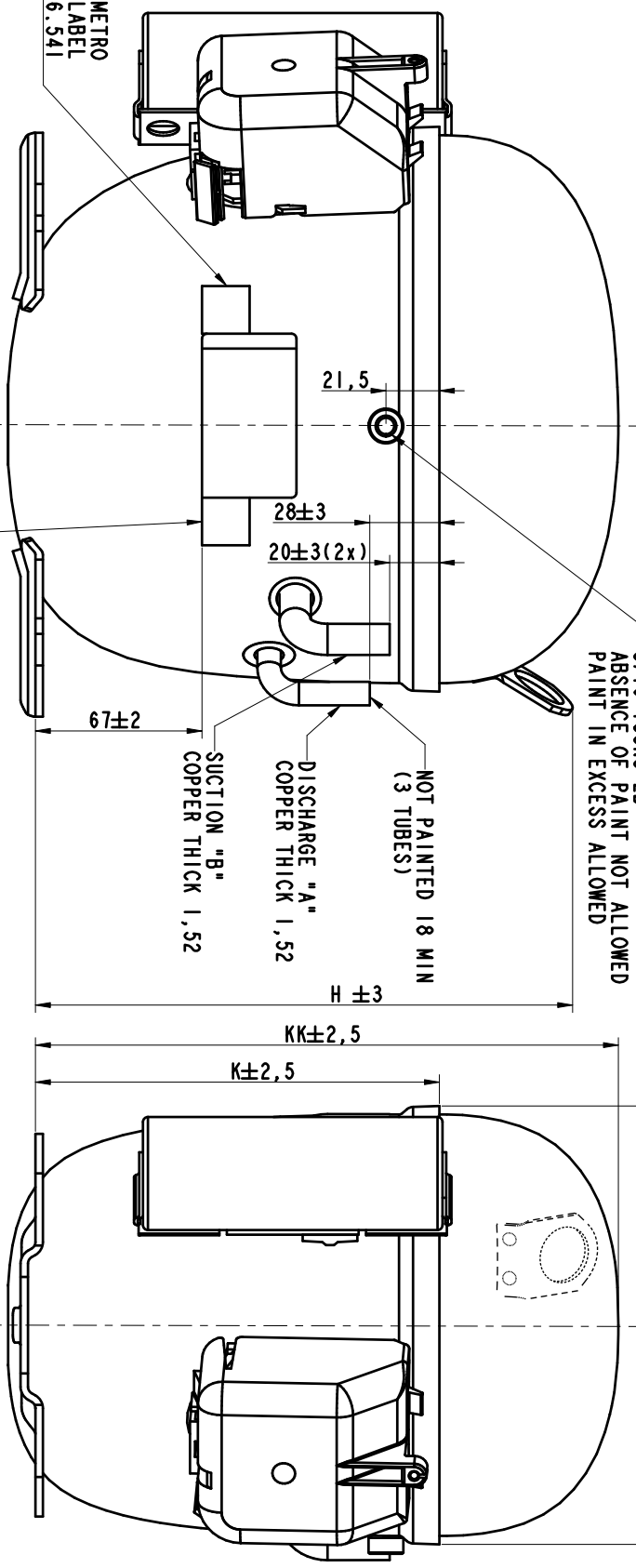
Evaporating temperature °C	Cooling capacity	Power consumption	Gas flow rate	Cooling Efficiency	Heating capacity +/-	Heating Efficiency
	+/-5% W	+/-5% W	+/-5% kg/h	+/- 7% W/W	5% * W	+/- 7% W/W
-20.00	1,070.10	676.96	25.72	1.58	1,381.21	2.04
-15.00	1,324.77	721.00	32.04	1.84	1,662.84	2.31
-10.00	1,630.56	767.27	39.72	2.13	1,992.33	2.60
-5.00	1,995.76	815.60	49.04	2.45	2,376.15	2.91
0.00	2,428.19	865.80	60.26	2.80	2,819.69	3.26
5.00	2,936.17	917.23	73.73	3.20	3,328.51	3.63
10.00	3,529.39	968.83	89.87	3.64	3,909.37	4.04

**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% W	+/-5% W	+/-5% kg/h	+/- 7% W/W	5% * W	+/- 7% W/W
-20.00	896.01	716.62	24.24	1.25	1,232.70	1.72
-15.00	1,114.73	766.38	30.37	1.45	1,488.13	1.94
-10.00	1,371.10	821.47	37.66	1.67	1,777.91	2.16
-5.00	1,676.05	879.08	46.48	1.91	2,113.11	2.40
0.00	2,038.18	938.17	57.16	2.17	2,500.81	2.67
5.00	2,465.33	997.68	70.07	2.47	2,946.52	2.95
10.00	2,965.71	1,056.02	85.63	2.81	3,455.73	3.27

**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% W	+/-5% W	+/-5% kg/h	+/- 7% W/W	5% * W	+/- 7% W/W
-20.00	693.71	773.78	21.76	0.90	1,032.85	1.33
-15.00	892.45	817.42	28.22	1.09	1,285.90	1.57
-10.00	1,107.29	878.42	35.35	1.26	1,545.58	1.76
-5.00	1,354.60	946.22	43.73	1.43	1,833.46	1.94
0.00	1,645.42	1,017.36	53.82	1.62	2,161.58	2.12
5.00	1,988.06	1,090.19	66.05	1.82	2,537.16	2.33
10.00	2,389.74	1,163.03	80.87	2.05	2,965.29	2.55

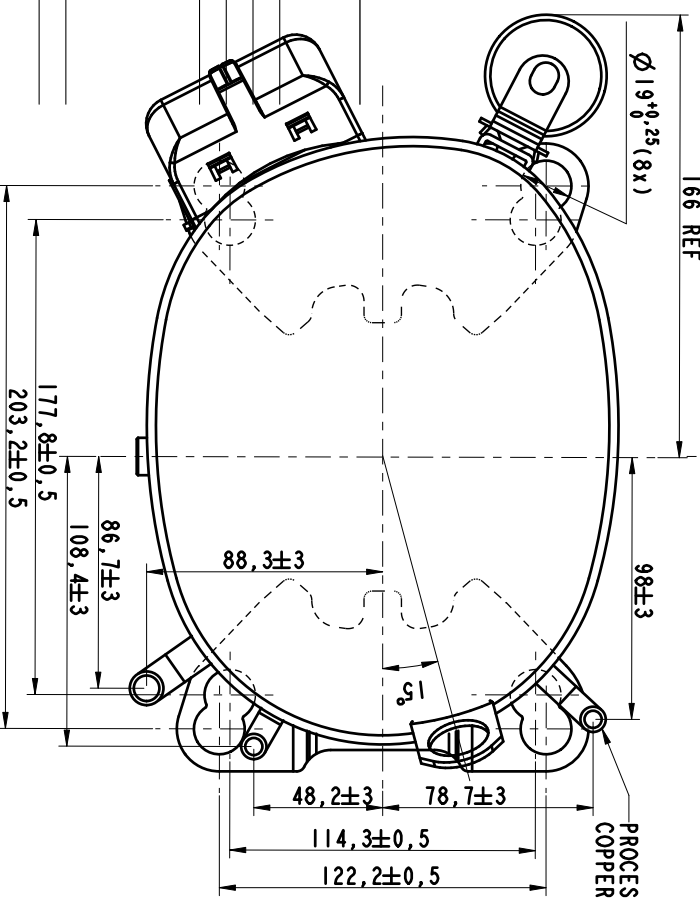


PLACE FOR IMMETRO  
COMPRESSOR LABEL  
2.216.541

REFRIGERANT LABEL

PROCESS "C"  
COPPER THICK 1,52

ECM	REVISION	LO	BY	APP	DATE	
-	ADDED HANGER TAB	-	-	-	21.11.2005	
507590	1	RELEASED	PV	VP	16.03.2006	
513311	2	ADDED SHELL 842.04 ADDED NT2160U, NT2170U	TAB	AP	RR	12.03.2009
517385	3	PROCESS TUBE CHANGED	TAB	LF	JK	13.05.2011
305537	4	ADDED NOTE ABOUT IMMETRO LABEL	C6	DG	MG	31.07.2013
34220	5	ADDED MODEL NT2170V	TAB	LF	MG	06.06.2014



234	162.5	216				923.04	NT21926K	NT21806K
220	148.5	202				922.04	NT21686K	NT21786K
						842.04	NT162226K	NT162176K
							NT2160U	NT2170U
							NT62170V	

KK	K	H	A	B	C	SHELLTYPE	MODELS

MATERIAL :		NAME	
CODE :		NT EXTERNAL VIEW	
DRAWN : P. VALERO 01.04.2005		CSIR PIN FUSITE	
APP. : VALERO 01.04.2005			
ECM :			

GEN. TOL. :	1:2
ANG. TOL. :	
SCALE :	
REPLACE	
No.	1.960.883

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