



Model: NJ6220Z
Code: 144HA11

embraco POWER IN.
CHANGE ON

Type:	On-off
Voltage [V] / Frequency [Hz] / Phases	220-240 V 50 Hz 1 ~
Refrigerant:	R-134a
Application:	HBP

Motor type:	CSIR
Starting torque:	HST
HP:	1
Displacement:	26.11 cm ³

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

Cooling capacity	Power consumption	Mass flow rate	Efficiency
2,203.80 W	1,013.18 W	59.01 kg/h	2.18 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):	13.62 Ω +/- 8%	Run winding resistance at 25°C (77°F):	2.11 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:	41.77 mm	Stroke:	9.53 mm
		Displacement:	26.11 cm ³

OTHER INFORMATION

Weight:	20.5 kg	Oil charge:	750 ml
Lubricant type:	Polyolester ISO22	Nitrogen charge:	Yes

EXTERNAL SETTINGS

	Shape	Material	Diameter [mm]
Suction connector	Vertical	Copper	9.60
Discharge connector	Slanted J	Copper	8.00
Process connector	Vertical	Copper	6.42
Base plate:	American Standard	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	2,167.04	935.28	54.36	2.32	2,618.34	2.80
EN12900 MBP	1,143.88	665.02	26.68	1.72	1,456.79	2.19

* 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	1,063.90	573.63	21.23	1.85	1,318.26	2.30
-10.00	1,385.90	627.47	27.75	2.21	1,673.67	2.67
-5.00	1,764.39	681.63	35.48	2.59	2,078.82	3.05
0.00	2,205.30	732.93	44.58	3.01	2,537.43	3.46
5.00	2,716.29	777.20	55.24	3.49	3,055.07	3.93
10.00	3,306.68	808.74	67.73	4.09	3,638.78	4.50

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	878.48	581.06	19.11	1.51	1,145.64	1.97
-10.00	1,167.28	647.27	25.49	1.80	1,481.26	2.29
-5.00	1,512.51	718.80	33.19	2.10	1,869.56	2.60
0.00	1,916.90	792.60	42.29	2.42	2,310.20	2.91
5.00	2,385.87	865.43	52.99	2.76	2,806.22	3.24
10.00	2,926.91	933.26	65.51	3.14	3,362.88	3.60

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	709.71	580.21	17.04	1.22	979.95	1.69
-10.00	950.75	652.01	22.92	1.46	1,275.08	1.96
-5.00	1,253.81	736.50	30.39	1.70	1,634.92	2.22
0.00	1,615.96	829.27	39.40	1.95	2,050.76	2.47
5.00	2,038.94	926.94	50.08	2.20	2,520.70	2.72
10.00	2,527.53	1,026.26	62.62	2.46	3,046.84	2.97

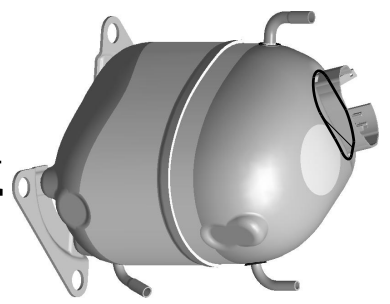
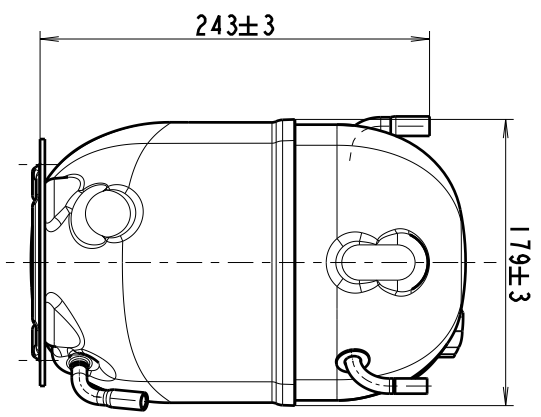
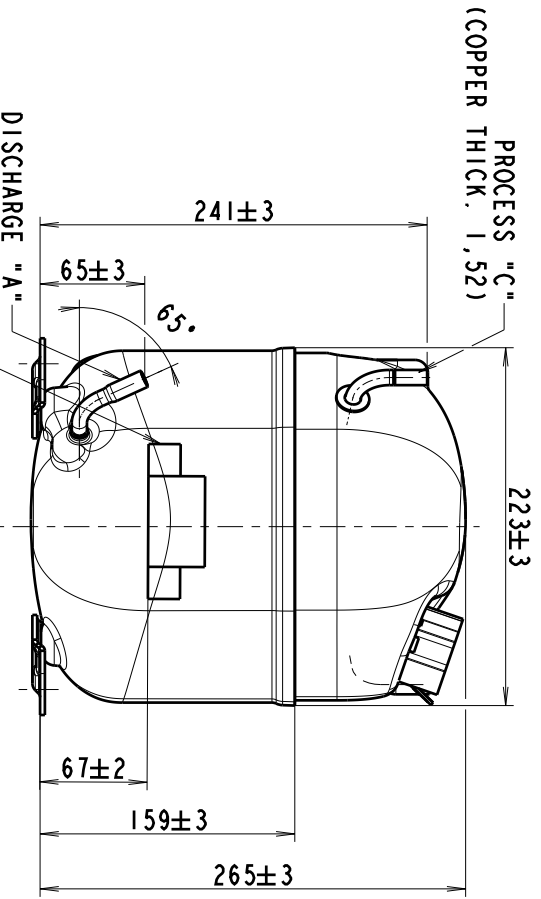
ELECTRICAL ACCESSORIES

Kit:	1
Starter device:	VOLTAGE RELAY
Engineering code:	RVA403C-123
Run capacitor:	--
Starting capacitor:	88-108

Thermal protector: T0825/C9**Institutes approved for this electric kit:**

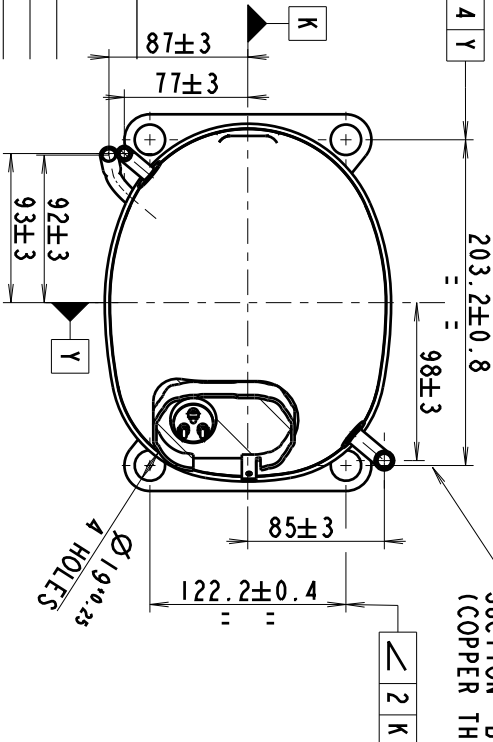
If purchased without electricals consult Embraco to verify the supplier of electricals approved for this compressor

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



DISCHARGE "A"
(COPPER THICK. 1,52)
PLACE FOR INMETRO
COMPRESSOR LABEL
2.216.541

SUCTION "B"
(COPPER THICK. 1,52)



ECM	REVISION	LO	BY	APP	DATE	
515339	1	ADDED MODEL NJ7231GP	TAB	BS	AP	27.06.2010
517908	2	CHANGED PROCESS TUBE	TAB	LF	JK	15.06.2012
519422	3	STANDARDISATION OF NJ BOTTOM SHELL	VIEWS	PT	JK	04.07.2012
28918	4	ALL BOMS CORRECTION. F.E. FROM 94401 TO 94411.	TAB	PT	JK	06.05.2013
30537	5	ADDED INMETRO LABEL	C6	DG	M6	01.08.2013

MATERIAL :

CODE :

DRAWN : PETER TEPLICA 16.12.2009

APP. : JAN KAKALEJCIN

ECM : 514846

embraco

NJ EXTERNAL VIEW
MEDIUM

GEN. TOL. :

ANG. TOL. :

SCALE : 1:3

REPLACE 1.960.857 REV.3

No. 1.960.857

A	B	C	SHELL TYPE	MODELS
1. D. 8.0-8.08 X 23 DEEP	1. D. 9.6-9.67 X 22 DEEP	1. D. 6.42-6.5 X 22 DEEP	944.01 144.01 948.01 148.01 944.11 144.11 948.11 148.11	NJ2192GK NJ9226GK NJ2152Z NJ62202 NJ2152A NJ62204 NJ9226E NJ2178E NJ7231F NJ7231GF NJ2192K NJ62262X NJ9226GS NJ7231GP

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