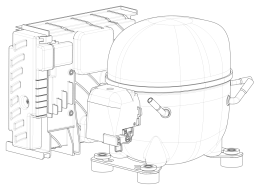
Model **VNEK212GK** | Code 950CX7101AQ

embraco POWER IN. CHANGE ON.

220-240V 1~



GENERAL DATA

Application: LBP
Refrigerant: R404A
Evaporating Temperature Range: -40°C to -10°C
Compressor Cooling: Fan
Fan air flow: 520 m^3/h
Type: Hermetic reciprocating
Technology Type: VCC
Expansion Device: Capillary Tube or Expansion Valve
Packing Quantity: Multi - 40 pcs
Displacement: 12.11 cm3
Approvals:

MECHANICAL DATA

Bore: 27.78 mm
Stroke: 20 mm
Oil Charge: 500ml +/-15ml
Free Internal Volume: 2.1 cm3
Maximum Recommended Refrigerant Charge: 350 g
Oil Type Configuration: Polyolester
Oil Type Viscosity: ISO22
Compressor pressuriazation: Dry air charge
Weight: 14.2 kg

ELECTRICAL DATA

Motor Type: BPM
Starting Torque: HST
Voltage working range at 50 Hz: 150 (160)-240 V
Voltage working range at 60 Hz: 150 (160) V
Maximum Motor Temperature: 130 °C
Start Winding Resistance: 3.82 Ω (± 10%) at 25°C
Run Winding Resistance: 2.53 Ω (± 10%) at 25°C
Locked Rotor Amperage (LRA): 6 A

MOUNTING ACCESSORIES

	Description	Code
Terminal Board:	no	-
Capacitor Bracket:	no	-
Grommets:	yes	2221004
Sleeves:	yes	2222016
Washer:	no	-
Pin:	no	-
Clip:	no	-
Rotolock valve:	no	-
Cover:	yes	2075282
Anchorage:	yes	1027058
Overload Protector Bracket:	yes	2075299

ELECTRICAL COMPONENTS

	Component type	Description	Code
Motor Protection:	External 3/4"	MST26AHK-3166	2288311
Inverter:	HP DROP IN	1000W 220V	519302020

EXTERNAL CHARACTERISTICS

Base Plate: Universal
Tray Holder: No
Height: 206 mm

	Internal Diameter (mm)	Material	Shape
Suction Connector	8.1	Copper	Slanted 42Â°
Discharge Connector	6.45	Copper	Straight
Process Connector	6.45	Copper	Slanted 42Â°

RATED POINT DATA

Cooling Capacity (W)	Power Consumption (W)	Current Consumption (A)	Gas Flow Rate (kg/h)	Efficiency (W/W)
±5%	±5%	±5%	±5%	±7%
240	221	1.05	6.04	1.08

Test condition: EN 12900, Fan, Return Gas 20°C, Subcooling 0K, Evaporating: -35°C, Condensing: 40°C, Ambient: 35°C

PERFORMANCE CURVE DATA

2000 RPM

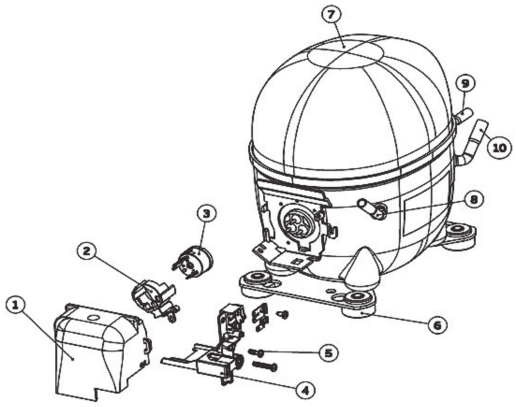
Condensing Temperature (°C)	Evaporating Temperature (°C)	Cooling Capacity (W)	Power Consumption (W)	Current Consumption (A)	Gas Flow Rate (kg/h)	Efficiency (W/W)
		±5%	±5%	±5%	±5%	±7%
35°C	-10	925	384	1.79	22.54	2.41
	-15	748	350	1.64	18.11	2.14
	-20	596	316	1.48	14.32	1.88
	-25	465	282	1.33	11.12	1.65
	-30	355	249	1.18	8.46	1.42
	-35	265	217	1.03	6.30	1.22
	-40	194	185	0.89	4.58	1.05

Condensing Temperature (°C)	Evaporating Temperature (°C)	Cooling Capacity (W)	Power Consumption (W)	Current Consumption (A)	Gas Flow Rate (kg/h)	Efficiency (W/W)
		±5%	±5%	±5%	±5%	±7%
45°C	-10	779	429	2.00	21.40	1.81
	-15	628	385	1.80	17.13	1.63
	-20	498	342	1.61	13.47	1.45
	-25	386	302	1.42	10.38	1.28
	-30	291	263	1.24	7.80	1.11
	-35	214	226	1.07	5.70	0.95

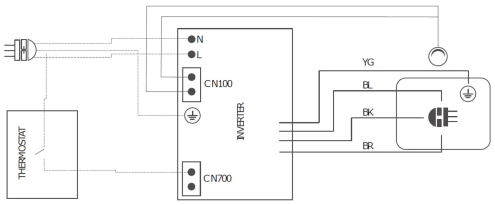
Condensing Temperature (°C)	Evaporating Temperature (°C)	Cooling Capacity (W)	Power Consumption (W)	Current Consumption (A)	Gas Flow Rate (kg/h)	Efficiency (W/W)
		±5%	±5%	±5%	±5%	±7%
55°C	-10	644	475	2.20	20.57	1.36
	-15	516	420	1.96	16.32	1.23
	-20	404	368	1.72	12.67	1.10
	-25	307	319	1.51	9.56	0.96
	-30	224	274	1.30	6.94	0.82

Test condition: EN 12900, Fan, Return Gas 20°C, Subcooling 0K, Ambient: 35°C

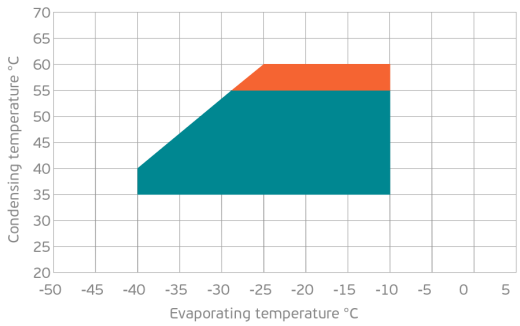
ASSEMBLY INSTRUCTION



WIRING DIAGRAM



OPERATING ENVELOPE

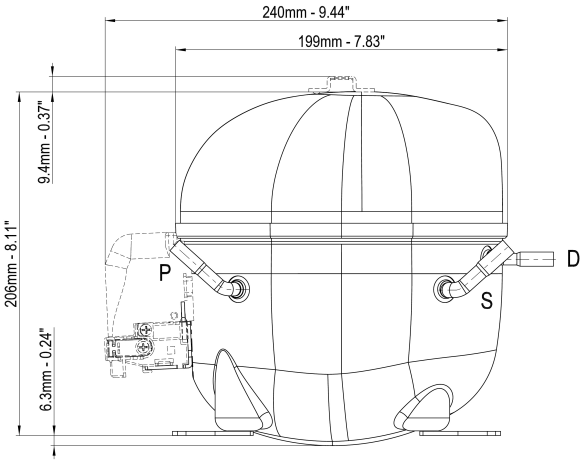


Operating Condition

Transient Condition

Superheating

NOTE: usage of compressors outside of intended working range cannot make use of the warranty, or should be consulted with Technical support.



	∅ mm	∅ in	Material
S - Suction	8.10 - 8.20	0.32	Cu
P - Process	6.45 - 6.55	0.25	Cu
D - Discharge	6.45 - 6.55	0.25	Cu