

220-240V 50 1~



GENERAL DATA

Application: LBP
Refrigerant: R404A
Evaporating Temperature Range: -40°C to -10°C
Compressor Cooling: Fan
Fan air flow: 520 m³/h
Type: Hermetic reciprocating
Technology Type: On-Off
Expansion Device: Capillary Tube or Expansion Valve
Packing Quantity: Single - 1 pc
Displacement: 20.4 cm³
Horse power: 1 hp

Approvals:     



MECHANICAL DATA

Bore: 36.99 mm
Stroke: 19.03 mm
Oil Charge: 450ml +/-15ml
Free Internal Volume: 3.3 cm³
Maximum Recommended Refrigerant Charge: 800 g
Oil Type Configuration: Polyolester
Oil Type Viscosity: ISO22
Compressor pressurization: Dry air charge
Weight: 16.1 kg

ELECTRICAL DATA

Motor Type: CSR
Starting Torque: HST
Voltage working range at 50 Hz: 198-254 V
Maximum Motor Temperature: 130 °C
Start Winding Resistance: 9.24 Ω (± 10%) at 25°C
Run Winding Resistance: 2.35 Ω (± 10%) at 25°C
Locked Rotor Amperage (LRA): 29 A

MOUNTING ACCESSORIES

	Description	Code
Terminal Board:	no	-
Anchorage:	no	-
Capacitor Bracket:	no	-
Grommets:	yes	2221004
Sleeves:	yes	2222016
Washer:	no	-
Pin:	no	-
Clip:	no	-
Rotolock valve:	no	-
Overload Protector Bracket:	yes	2075299
Cover:	yes	2075278

ELECTRICAL COMPONENTS

	Component type	Description	Code
Start Capacitor:		88-108 MFD 330V	2252269
Run Capacitor:		15 MFD	2253310
Starting Device:	Potential relay	RVA2L3C-112	1253010
Motor Protection:	External 3/4"	T0743/G9	2321083
CSR / CSIR Box:	yes		1262320

EXTERNAL CHARACTERISTICS

Base Plate: Universal
Tray Holder: No
Height: 220 mm

	Internal Diameter (mm)	Material	Shape
Suction Connector	9.6	Copper	Vertical
Discharge Connector	6.42	Copper	Vertical

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%
519	495	2.69	14.08	1.05

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

PERFORMANCE CURVE DATA

220V 50Hz

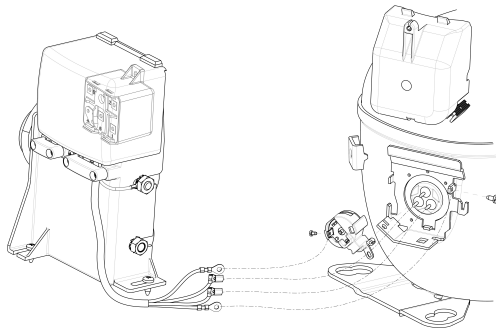
Condensing Temperature (°C)	Evaporating Temperature (°C)	Cooling Capacity (W)	Power Consumption (W)	Current Consumption (A)	Gas Flow Rate (kg/h)	Efficiency (W/W)
		±5%	±5%	±5%	±5%	±7%
35°C	-10	1 908	819	4.11	50.30	2.33
	-15	1 558	750	3.79	40.72	2.08
	-20	1 251	682	3.48	32.42	1.84
	-25	985	615	3.18	25.36	1.60
	-30	761	550	2.91	19.49	1.38
	-35	578	488	2.67	14.76	1.18
	-40	438	430	2.45	11.13	1.02

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	1 589	890	4.39	47.71	1.79
	-15	1 298	814	4.03	38.60	1.60
	-20	1 039	736	3.68	30.64	1.41
	-25	813	657	3.34	23.80	1.24
	-30	620	578	3.01	18.03	1.07
	-35	459	500	2.70	13.28	0.92

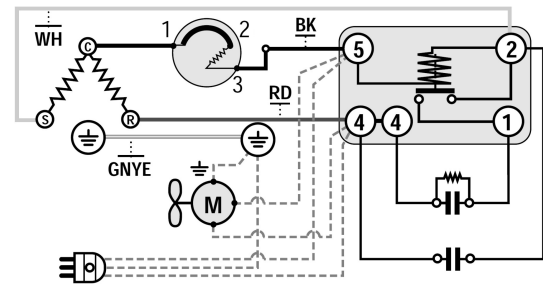
Condensing Temperature (°C)	Evaporating Temperature (°C)	Cooling Capacity (W)	Power Consumption (W)	Current Consumption (A)	Gas Flow Rate (kg/h)	Efficiency (W/W)
		±5%	±5%	±5%	±5%	±7%
55°C	-10	1 251	970	4.73	44.35	1.29
	-15	1 021	882	4.32	35.77	1.16
	-20	814	791	3.92	28.23	1.03
	-25	631	697	3.52	21.68	0.91
	-30	471	600	3.12	16.07	0.78

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

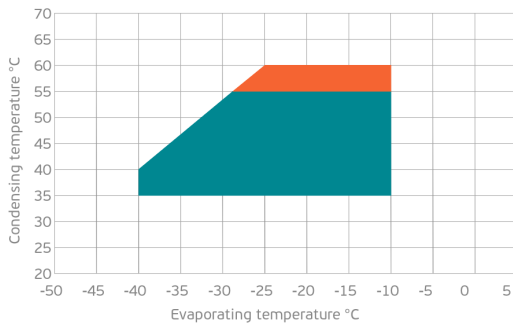
ASSEMBLY INSTRUCTION



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.

