

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: Multi - 36 pcs
Displacement: 27.8 cm³
Horse power: 1.5 hp

Approvals:   

MECHANICAL DATA

Bore: 38.1 mm
Stroke: 24.4 mm
Oil Charge: 650ml +/-15ml
Free Internal Volume: 3.75 cm³
Maximum Recommended Refrigerant Charge: 800 g
Oil Type Configuration: Polyolester
Oil Type Viscosity: ISO22
Compressor pressurization: Dry air charge
Weight: 18.9 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: 3.92 Ω (± 10%) at 25°C
Run Winding Resistance: 1.72 Ω (± 10%) at 25°C
Locked Rotor Amperage (LRA): 33 A

MOUNTING ACCESSORIES

	Description	Code
Terminal Board:	no	-
Anchorage:	no	-
Overload Protector Bracket:	no	-
Capacitor Bracket:	no	-
Grommets:	yes	2221004
Sleeves:	yes	2222016
Washer:	no	-
Pin:	no	-
Clip:	no	-
Rotolock valve:	no	-
Cover:	yes	2075288

ELECTRICAL COMPONENTS

	Component type	Description	Code
Motor Protection:	Internal	15HM1962	
Start Capacitor:		88-108 MFD 330V	2252269
Run Capacitor:		20 MFD	2253312
Starting Device:	Potential relay	RVA2E3C-103	1253002
CSR / CSIR Box:	yes		1262317

EXTERNAL CHARACTERISTICS

Base Plate: Universal
Tray Holder: No
Height: 250 mm

	Internal Diameter (mm)	Material	Shape
Suction Connector	9.6	Copper	Vertical
Discharge Connector	6.42	Copper	Vertical
Process 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%
1 387	996	5.05	32.09	1.39

Test condition: ASHRAE, Fan, Return Gas 32.2°C, Evaporating: -23.3°C, Condensing: 54°C, Ambient: 32.2°C, Liquid: 32.2°C

PERFORMANCE CURVE DATA

220V 50Hz

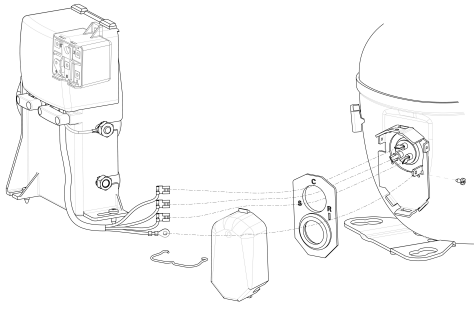
Condensing Temperature (°C)	Evaporating Temperature (°C)	Cooling Capacity (W)	Power Consumption (W)	Current Consumption (A)	Gas Flow Rate (kg/h)	Efficiency (W/W)
		±5%	±5%	±5%	±5%	±7%
35°C	-10	2 741	1 158	5.78	64.71	2.37
	-15	2 248	1 049	5.29	52.71	2.14
	-20	1 815	945	4.84	42.29	1.92
	-25	1 440	845	4.41	33.39	1.70
	-30	1 124	751	4.02	25.95	1.50
	-35	865	661	3.66	19.91	1.31
	-40	663	575	3.34	15.21	1.15

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	2 617	1 261	6.23	61.66	2.08
	-15	2 139	1 136	5.66	50.04	1.88
	-20	1 717	1 015	5.13	39.94	1.69
	-25	1 352	899	4.63	31.28	1.50
	-30	1 043	787	4.16	24.02	1.32
	-35	788	679	3.73	18.10	1.16

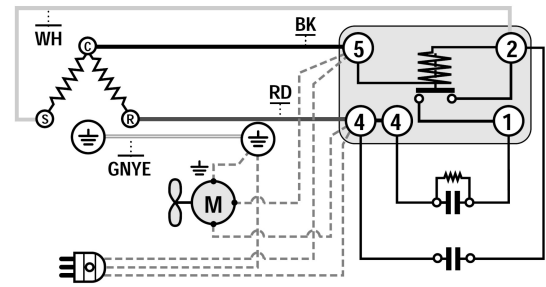
Condensing Temperature (°C)	Evaporating Temperature (°C)	Cooling Capacity (W)	Power Consumption (W)	Current Consumption (A)	Gas Flow Rate (kg/h)	Efficiency (W/W)
		±5%	±5%	±5%	±5%	±7%
55°C	-10	2 483	1 372	6.72	58.38	1.81
	-15	2 023	1 230	6.07	47.23	1.64
	-20	1 617	1 092	5.46	37.52	1.48
	-25	1 264	957	4.88	29.20	1.32
	-30	965	827	4.34	22.20	1.17

Test condition: ASHRAE, Fan, Return Gas 32.2°C, Ambient: 32.2°C, Liquid: 32.2°C

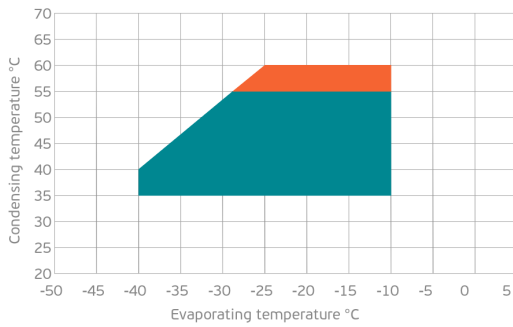
ASSEMBLY INSTRUCTION



WIRING DIAGRAM

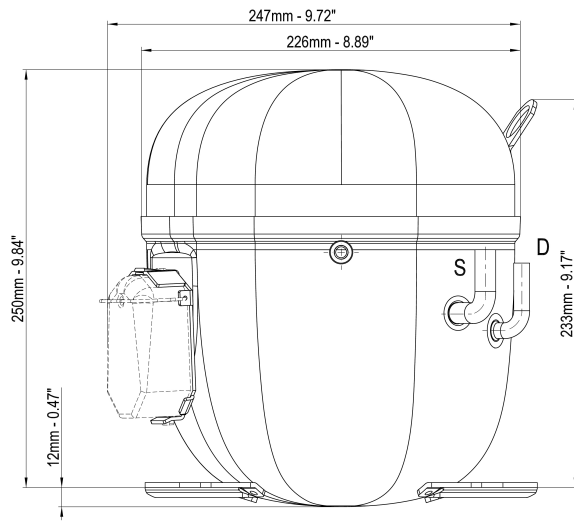


OPERATING ENVELOPE



- 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	9.60	0.37	Cu
P - Process	6.42	0.25	Cu
D - Discharge	6.42	0.25	Cu

