

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: 22.4 cm³
Horse power: 1 hp

Approvals:     



MECHANICAL DATA

Bore: 36.99 mm
Stroke: 20.83 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: 17.7 kg

ELECTRICAL DATA

Motor Type: CSIR
Starting Torque: HST
Voltage working range at 50 Hz: 198-254 V
Maximum Motor Temperature: 130 °C
Start Winding Resistance: 8.4 Ω (± 10%) at 25°C
Run Winding Resistance: 1.9 Ω (± 10%) at 25°C
Locked Rotor Amperage (LRA): 36 A

MOUNTING ACCESSORIES

	Description	Code
Anchorage:	no	-
Grommets:	yes	2221004
Sleeves:	yes	2222016
Washer:	no	-
Pin:	no	-
Clip:	no	-
Rotolock valve:	no	-
Cover:	yes	2075282
Terminal Board:	yes	1027060
Overload Protector Bracket:	yes	2075299
Capacitor Bracket:	yes	2255007

ELECTRICAL COMPONENTS

	Component type	Description	Code
Start Capacitor:		130-156 MFD 250V	2252326
Starting Device:	Current relay	MTRPH-61-59	2278041
Motor Protection:	External 3/4"	T0060/G6	2319072

EXTERNAL CHARACTERISTICS

Base Plate: Universal
Tray Holder: No
Height: 234 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%
1 057	810	4.91	24.45	1.31

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

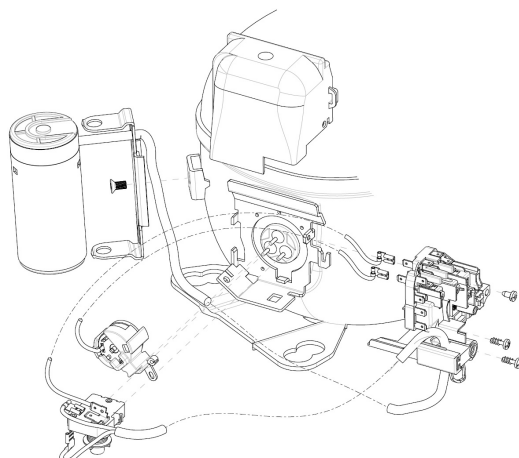
Condensing Temperature (°C)	Evaporating Temperature (°C)	Cooling Capacity (W)	Power Consumption (W)	Current Consumption (A)	Gas Flow Rate (kg/h)	Efficiency (W/W)
		±5%	±5%	±5%	±5%	±7%
35°C	-10	2 180	924	5.46	51.46	2.36
	-15	1 779	841	5.10	41.70	2.11
	-20	1 426	760	4.77	33.23	1.88
	-25	1 121	680	4.49	26.00	1.65
	-30	865	602	4.24	19.97	1.44
	-35	657	524	4.02	15.11	1.25
	-40	495	448	3.85	11.36	1.10

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	2 039	1 020	5.84	48.03	2.00
	-15	1 662	921	5.40	38.88	1.80
	-20	1 329	824	5.01	30.91	1.61
	-25	1 041	729	4.65	24.08	1.43
	-30	796	634	4.33	18.34	1.25
	-35	594	541	4.05	13.65	1.10

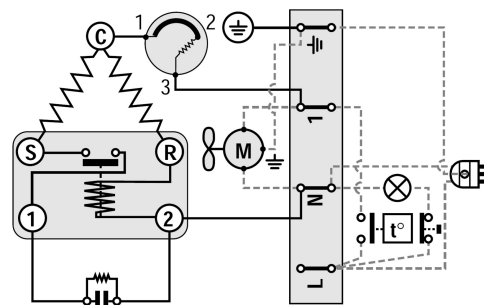
Condensing Temperature (°C)	Evaporating Temperature (°C)	Cooling Capacity (W)	Power Consumption (W)	Current Consumption (A)	Gas Flow Rate (kg/h)	Efficiency (W/W)
		±5%	±5%	±5%	±5%	±7%
55°C	-10	1 899	1 124	6.15	44.64	1.69
	-15	1 546	1 007	5.66	36.09	1.54
	-20	1 233	891	5.21	28.61	1.38
	-25	960	777	4.80	22.17	1.24
	-30	726	664	4.43	16.71	1.09

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

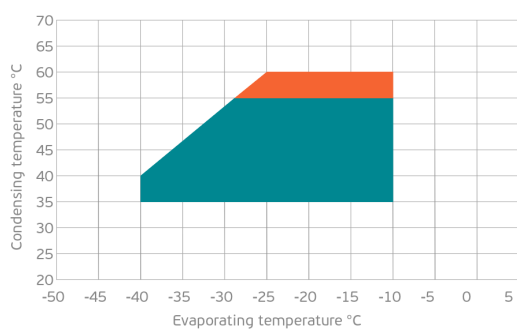
ASSEMBLY INSTRUCTION



WIRING DIAGRAM

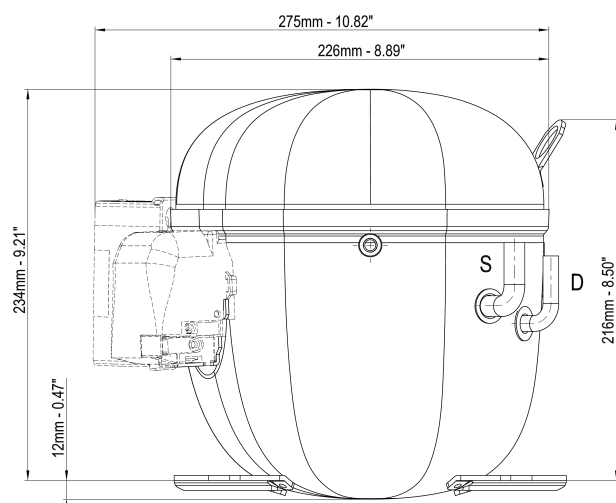


OPERATING ENVELOPE



- 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.



	Ø mm	Ø in	Material
S - Suction	9.60	0.37	Cu
P - Process	6.42	0.25	Cu
D - Discharge	6.42	0.25	Cu

