

## Product Detail | Reciprocating compressor, MT50HK1GVE

**MT50-1VI****Reciprocating compressor, MT50HK1GVE**

Refrigerants: R22, Segment usage: Refrigeration MT, Compressor power supply

[V]: 208-230/1/60, Packing format: Single pack

**PRODUCT DETAILS**

Gross weight	39.5 Kg
Net weight	37 Kg
Volume	61.54 Liter
EAN	5702428839648
Approval	CE UL UKCA
Auxiliary winding resistance (start winding) for single-phase compressors [Ohm]	1.83
Brand technique	Reciprocating compressor
Capacity control	Fixed speed
Capacity of capacitor A	30 µF
Capacity of capacitor B	135 µF
Capacity of capacitor C	15 µF
China RoHS compliance	Out of scope
Colour	Blue
Compressor power supply [V]	208-230/1/60
Configuration code	Single
Connection type	Rotolock
Cylinder	2
Description	MT050-1
Diameter [mm]	288 mm
Discharge connection height [mm]	74 mm
Discharge connection pipe size [in]	3/4 in
Discharge connection size [in]	1 1/4 in
Drawing number	8502011e
Economizer	No
EU RoHS compliance	Yes with exemptions
EU RoHS exemption clause	6(a), 6(a)-I, 7(a), 7(c)-I, 8(b), 9(b)
Factory HP [bar]	25 bar
Factory LP [bar]	25 bar
Family	MT
Fitting remark	(shipped with rotolock version only)
Fitting sleeve	ODF
Fitting standard	Rotolock
Frequency [Hz]	60
Gauge port HP	None
Gauge port LP	Schrader

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Glass mounting	Threaded
Glass torque [Nm]	50 N-m
GP LP torque [Nm]	15 N-m
High Side TS Max	150 °C
High Side TS Min	-35 °C
High Side Volume	0.6 L
High value of nominal voltage at 60Hz [V]	230 V
High value of voltage range at 60Hz [V]	253 V
In scope of WEEE and contain batteries	No
IP protection class	IP54 (with cable gland)
Low Side TS Max	50 °C
Low Side TS Min	-35 °C
Low Side Volume	16.5 L
Low value of nominal voltage at 60Hz [V]	208 V
Low value of voltage range at 60Hz [V]	187 V
LRA	114 A
Main winding resistance for single-phase compressors [Ohm]	0.38
Max pressure (PS) - high side	27.8 bar
Max pressure (PS) - low side	18.4 bar
MCC	36 A
Model number	MT50HK1GVE
Motor protection	Internal overload protector
Mounting torque [Nm]	15 N-m
Network power supply [V/Ph/Hz]	208-230/1/60
Number of starts per hour [Max]	12
Oil charge [L]	1.8 L
Oil equalization	3/8" flare SAE
Oil equalization torque [Nm]	30 N-m
Oil reference	160P
Packaging height [mm]	455 mm
Packaging length [mm]	395 mm
Packaging weight [Kg]	39 kg
Packaging width [mm]	365 mm
Packing format	Single pack
Packing quantity	1
Phase	1
Power connections	Screw connectors 10-32 UNF x 9.5
Product group	Hermetic compressors
Product Name Description	MT
REACH Candidate List substances	Lead (CAS no. 7439-92-1)
Refrigerant charge [kg] [Max]	5 kg
Refrigerants	R22
Rotational speed at 60Hz [rpm]	3500 rpm
SCIP dossier no.	9b3fb119-9852-486a-92dd-53aa9c96fd3b
Segment usage	Refrigeration MT

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Shipped fittings	Suction and discharge solder sleeves, rotolock nuts, and gaskets
Shipped instructions	Installation instructions
Shipped mounting	Mounting kit with grommets, bolts, nuts, sleeves and washers
Shipped oil	Initial oil charge
Suction connection height [mm]	265 mm
Suction connection material	-
Suction connection pipe size [in]	7/8 in
Suction connection size [in]	1 3/4 in
Swept volume [cm <sup>3</sup> ]	85.64 cm <sup>3</sup>
Technology	Reciprocating
Test Dif [bar] [Max]	30 bar
Test HP [bar] [Max]	30 bar
Test LP [bar] [Max]	25 bar
Torque earth [Nm]	3 N-m
Torque power [Nm]	3 N-m
Total height [mm]	413 mm
Type	MT050
UK RoHS compliance	Out of scope
Viscosity [cP]	32 cP
Voltage of capacitor A [V]	440 V
Voltage of capacitor B [V]	330 V
Voltage of capacitor C [V]	440 V
Proposition 65	WARNING: Cancer and Reproductive Harm <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>

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## Accessories

**120Z0576** [🔗](#)**Acoustic hood, Reciprocating**

Acoustic hood for two-cylinder compressor

**8173230** [🔗](#)**Electrical component, T block**

T block connector 52 x 57 mm

**8153013** [🔗](#)**Connector, Solder Sleeve**

Solder sleeve, P07 (1-3/4" rotolock, 7/8" ODF)

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## Accessories

**8156009** **Connector, GASKET**

Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black and white

**8173002** **Electrical component, Start capacitor**

Start capacitor 330V, 140 µF

**8156131** **Connector, GASKET**

Gasket, 1-1/4"

**8153008** **Connector, Solder Sleeve**

Solder sleeve, P04 (1-1/4" rotolock, 3/4" ODF)

**8156132** **Connector, GASKET**

Gasket, 1-3/4"

**8156135** **Electrical component, Terminal box**

Service kit for terminal box 96 x 115 mm, including 1 cover, 1 clamp

**7701035** **Electrical component, Starting kit**

PSC starting kit, 30 µF, 15 µF

**120Z0762** **Mounting, Compressor kit**

Mounting kit 2 cylinder except HP

## Spare Parts

**8156145** **Connector, GASKET**

Gasket for oil sight glass (black chloroprene)

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**7701035** [🔗](#)**Electrical component, Starting kit**PSC starting kit, 30  $\mu$ F, 15  $\mu$ F**7773107** [🔗](#)**Crankcase heater, Belt heater**

Belt type crankcase heater, 65 W, 230 V, CE mark, UL

**8168029** [🔗](#)**Connector, Rotolock service valve**

Rotolock valve, V04 (1-1/4" rotolock, 3/4" ODF)

**7754001** [🔗](#)**Lubricant, 160P**

Mineral oil, 160P, 2-litre can

**8173022** [🔗](#)**Electrical component, Relay**

Starting relay type RVA-6AMKL/3ARR3J4A4

**8156019** [🔗](#)**Connector, Sight glass**

Oil sight glass with gaskets (black and white)

**120Z0459** [🔗](#)**Crankcase heater, PTC heater**

PTC heater 27W, CE mark, UL

**7703006** [🔗](#)**Connector, Valve set**

Valve set, V07 (1-3/4"~7/8"), V04 (1-1/4"~3/4")

**7701042** [🔗](#)**Electrical component, Starting kit**CSR starting kit, 30  $\mu$ F, 15  $\mu$ F, 140  $\mu$ F**8168032** [🔗](#)**Connector, Rotolock service valve**

Rotolock valve, V07 (1-3/4" rotolock, 7/8" ODF)

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