

**MTZ50-1VI****Reciprocating compressor, MTZ50HK1BVE**

Refrigerants: R404A; R407C; R452A; R407A; R134a; R454C; R407F; R513A; R448A; R454A; R455A; R449A, 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	570242888110
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	MTZ050-1
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	MTZ
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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Product Detail | Reciprocating compressor, MTZ50HK1BVE

PRODUCT DETAILS

Glass mounting	Threaded
Glass torque [Nm]	50 N-m
GP LP torque [Nm]	15 N-m
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 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	29.4 bar
Max pressure (PS) - low side	22.6 bar
MCC	36 A
Model number	MTZ50HK1BVE
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	175PZ
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	Reciprocating compressor MTZ
REACH Candidate List substances	Lead (CAS no. 7439-92-1)
Refrigerant charge [kg] [Max]	5 kg
Refrigerants	R134a R404A R407A R407C R407F R448A R449A R452A R513A R454A R454C R455A

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Product Detail | Reciprocating compressor, MTZ50HK1BVE
PRODUCT DETAILS

Rotational speed at 60Hz [rpm]	3500 rpm
SCIP dossier no.	9b3fb119-9852-486a-92dd-53aa9c96fd3b
Segment usage	Refrigeration MT
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 [cm³]	85,64 cm ³
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	MTZ050
UK RoHS compliance	Out of scope
Voltage of capacitor A [V]	440 V
Voltage of capacitor B [V]	330 V
Voltage of capacitor C [V]	440 V

For Documents, Software, Visuals and more information, please use this link to visit the product page on Danfoss Product Store [🔗](#)

Accessories

7701035 [🔗](#)
Electrical component, Starting kit

PSC starting kit, 30 µF, 15 µF


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

Acoustic hood for two-cylinder compressor


8156131 [🔗](#)
Connector, Gasket

Gasket, 1-1/4"

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Accessories

**8173002** [🔗](#)**Electrical component, Start capacitor**Start capacitor 330V, 140 μ F**8156135** [🔗](#)**Electrical component, Terminal box**

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

**8156009** [🔗](#)**Connector, Gasket**

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

**8156132** [🔗](#)**Connector, Gasket**

Gasket, 1-3/4"

**8153008** [🔗](#)**Connector, Solder sleeve**

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

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

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

**7750009** [🔗](#)**Electrical component, Discharge thermostat kit**

Discharge thermostat kit

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

T block connector 52 x 57 mm

**120Z0762** [🔗](#)**Mounting, Compressor kit**

Mounting kit 2 cylinder except HP

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Spare Parts

**120Z0639** [🔗](#)**Lubricant, 175PZ**

POE lubricant, 175PZ, 2.5L CAN

**7701035** [🔗](#)**Electrical component, Starting kit**PSC starting kit, 30 μ F, 15 μ F**7701042** [🔗](#)**Electrical component, Starting kit**CSR starting kit, 30 μ F, 15 μ F, 140 μ F**120Z0638** [🔗](#)**Lubricant, 175PZ**

POE lubricant, 175PZ, 1-litre can

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

Oil sight glass with gaskets (black and white)

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

Starting relay type RVA-6AMKL/3ARR3J4A4

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

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

**8168032** [🔗](#)**Connector, Rotalock service valve**

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

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

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

**8156145** [🔗](#)**Connector, Gasket**

Gasket for oil sight glass (black chloroprene)

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Spare Parts



120Z0459 [🔗](#)

Crankcase heater, PTC heater

PTC heater 27W



7773107 [🔗](#)

Crankcase heater, Belt heater

Belt type crankcase heater, 65 W, 230 V

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