

**MTZ50-4VI****Reciprocating compressor, MTZ50HK4CVE**

Refrigerants: R404A; R407C; R452A; R407A; R134a; R407F; R513A; R448A; R449A,
Segment usage: Refrigeration MT, Compressor power supply [V/Ph/Hz]: 400/3/50
460/3/60

PRODUCT DETAILS

Gross weight	38.5 Kg
Net weight	36 Kg
Volume	62.803 Liter
EAN	5702428980517
Approval standard	CCC CE UL
Brand technique	Reciprocating compressor
Capacity control	Fixed speed
Colour	Blue
Compressor power supply [V/Ph/Hz]	400/3/50 460/3/60
Configuration code	Single
Connection type	Rotolock
Cylinder	2
Description	MTZ050-4
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	8502012g
Economizer	No
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]	50/60
Gauge port HP	None
Gauge port LP	Schrader
Generation code	D
Glass mounting	Threaded
Glass torque [Nm]	50 N-m
GP LP torque [Nm]	15 N-m
High side max pressure (Ps)	29.4 bar
High Side TS Max	150 °C
High Side TS Min	-35 °C
High Side Volume	0.6 L

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Product Detail | Reciprocating compressor, MTZ50HK4CVE

PRODUCT DETAILS

High value of nominal voltage at 50Hz [V]	400 V
High value of nominal voltage at 60Hz [V]	460 V
High value of voltage range at 50Hz [V]	460 V
High value of voltage range at 60Hz [V]	506 V
IP protection class	IP55 (with cable gland)
Low side max pressure (Ps)	22.6 bar
Low Side TS Max	50 °C
Low Side TS Min	-35 °C
Low Side Volume	16.5 L
Low value of nominal voltage at 50Hz [V]	380 V
Low value of nominal voltage at 60Hz [V]	460 V
Low value of voltage range at 50Hz [V]	340 V
Low value of voltage range at 60Hz [V]	414 V
LRA	47 A
MCC	11.5 A
Model Number	MTZ50HK4CVE
Motor protection	Internal overload protector
Mounting torque [Nm]	15 N-m
Network power supply [V/Ph/Hz]	380-415/3/50 460/3/60
Nominal cooling capacity at 50Hz	6.3 kW
Nominal cooling capacity at 60Hz	8.4 kW
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	3
Power connections	Spade
Product Group	Hermetic compressors
Product Name Description	MTZ
Refrigerant charge [kg] [Max]	5 kg
Refrigerants	R134a R404A R407A R407C R407F R448A R449A R452A

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Product Detail | Reciprocating compressor, MTZ50HK4CVE
PRODUCT DETAILS

	R513A
Relief valve	30 bar/8 bar
Rotational speed at 50Hz [rpm]	2900 rpm
Rotational speed at 60Hz [rpm]	3500 rpm
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
Winding resistance for three- phase compressors with identical windings [Ohm]	3.42 Ohm

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

Accessories

8156009 [↗](#)
Connector, GASKET

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


8156131 [↗](#)
Connector, GASKET

Gasket, 1-1/4"


120Z0638 [↗](#)
Lubricant, 175PZ

POE lubricant, 175PZ, 1-litre can

For more information, please use this link to visit the product page on Danfoss Product Store [↗](#)

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Accessories



120Z0576 [🔗](#)
Acoustic hood, Reciprocating
 Acoustic hood for two-cylinder compressor



120Z0763 [🔗](#)
Mounting, Compressor kit
 Mounting kit 2 cylinder



8153013 [🔗](#)
Connector, Solder Sleeve
 Solder sleeve, P07 (1-3/4" rotolock, 7/8" ODF)



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



8156132 [🔗](#)
Connector, GASKET
 Gasket, 1-3/4"



8153008 [🔗](#)
Connector, Solder Sleeve
 Solder sleeve, P04 (1-1/4" rotolock, 3/4" ODF)



120Z0639 [🔗](#)
Lubricant, 175PZ
 POE lubricant, 175PZ, 2.5L CAN



8156134 [🔗](#)
Electrical component, Terminal box
 Service kit for terminal box 80 x 96 mm, including 1 cover, 1 clamp

Spare Parts



7705006 [🔗](#)
Electrical component, MCI
 Electronic soft start kit, MCI 15 C

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Product Detail | Reciprocating compressor, MTZ50HK4CVE**Spare Parts****7703006** [🔗](#)**Connector, Valve set**

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

**7773117** [🔗](#)**Heater, Belt heater**

Belt type crankcase heater, 65 W, 400 V, CE mark, UL

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

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

**120Z0466** [🔗](#)**Heater, Belt heater**

Belt type crankcase heater, 65 W, 460 V, CE mark, UL

**7773107** [🔗](#)**Heater, Belt heater**

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

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

Gasket for oil sight glass (black chloroprene)

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

Oil sight glass with gaskets (black and white)

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

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

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

PTC heater 27W, CE mark, UL

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