

**MTZ72-4VI****Reciprocating compressor, MTZ72HN4AVE**

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

PRODUCT DETAILS

Gross weight	42.42 kg
Net weight	39.93 kg
EAN	5702428887946
Approval standard	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	MTZ072-4
Diameter [mm]	288 mm
Discharge connection height [mm]	74 mm
Discharge connection mounting torque [Nm]	90 Nm
Discharge connection pipe size [in]	3/4 in
Discharge connection rotolock size [in]	1 1/4 in
Discharge connection size [in]	1 1/4 in
Discharge connection sleeve pipe size [in]	3/4 in
Drawing number	8502012g
Economizer	No
Factory HP [bar]	25 bar
Factory LP [bar]	25 bar
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	B
Glass mounting	Threaded
Glass torque [Nm]	50 Nm
GP LP torque [Nm]	15 Nm
High side max pressure (Ps)	29.4 bar

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Product Detail | Reciprocating compressor, MTZ72HN4AVE

PRODUCT DETAILS

High Side TS Max	150 °C
High Side TS Min	-35 °C
High Side Volume	0.6 L
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	80 A
MCC	15.5 A
Model number	MTZ72HN4AVE
Motor protection	Internal overload protector
Mounting torque [Nm]	15 Nm
Nominal cooling capacity at 50Hz	9.2 kW
Nominal cooling capacity at 60Hz	11.9 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 Nm
Oil reference	175PZ
Packaging height [mm]	455 mm
Packaging length [mm]	395 mm
Packaging weight [Kg]	41 kg
Packaging width [mm]	365 mm
Packing format	Single pack
Packing quantity	1
Phase	3
Power connections	Spade
Refrigerant	R134a R404A R407A R407C R407F R448A R449A R452A R513A

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Product Detail | Reciprocating compressor, MTZ72HN4AVE

PRODUCT DETAILS

Refrigerant charge [kg] [Max]	5 kg
Relief valve	30 bar/8 bar
Rotational speed at 50Hz [rpm]	2900 rpm
Rotational speed at 60Hz [rpm]	3500 rpm
Segment usage	Air conditioning 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 mounting torque [Nm]	110 Nm
Suction connection pipe size [in]	7/8 in
Suction connection rotolock size [in]	1 3/4 in
Suction connection size [in]	1 3/4 in
Suction connection sleeve pipe size [in]	7/8 in
Swept volume [cm ³]	120.94 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 Nm
Torque power [Nm]	3 Nm
Total height [mm]	413 mm
Type	MTZ
Type designation	Compressor
Winding resistance for three-phase compressors with identical windings [Ohm]	1.94 Ohm

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

Accessories



8156132 [🔗](#)

Gasket, 1-3/4"

Gasket, 1-3/4"



120Z0638 [🔗](#)

POE lubricant, 175PZ, 1-litre can

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

**7750009** [🔗](#)**Discharge thermostat kit**

Discharge thermostat kit

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

Service kit for terminal box 80 x 96 mm, including 1 cover, 1 clamp

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

POE lubricant, 175PZ, 2.5L CAN

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

Acoustic hood for two-cylinder compressor

**8153008** [🔗](#)**Adaptor**

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

**8153013** [🔗](#)**Adaptor**

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

**8156009** [🔗](#)**Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black and white**

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

**8156131** [🔗](#)**Gasket, 1-1/4"**

Gasket, 1-1/4"

Spare Parts

**7773117** [🔗](#)**Belt type crankcase heater, 65 W, 400 V, CE mark, UL**

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

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Product Detail | Reciprocating compressor, MTZ72HN4AVE**Spare Parts****7773107** [🔗](#)**Belt type crankcase heater, 65 W, 230 V, CE mark, UL**

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

**8168032** [🔗](#)**Rotolock valve, V07 (1-3/4" rotolock, 7/8" ODF), Service kit**

VALVE SETS V07 1 3/4"-7/8"

**8156019** [🔗](#)**Oil sight glass with gaskets (black and white)**

Oil sight glass with gaskets (black and white)

**120Z0466** [🔗](#)**Belt type crankcase heater, 65 W, 460 V, CE mark, UL**

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

**120Z0459** [🔗](#)**PTC heater 27W, CE mark, UL**

PTC heater 27W, CE mark, UL

**7703006** [🔗](#)**Valve set**

Packing format: Multi pack, Packing quantity: 6

**7705006** [🔗](#)**MCI**

Electronic soft start kit, MCI 15 C

**8168029** [🔗](#)**Rotolock valve, V04 (1-1/4" rotolock, 3/4" ODF), Service kit**

VALVE SETS V04 1 1/4"-3/4"

**8156145** [🔗](#)**Gasket for oil sight glass (black chloroprene)**

Gasket for oil sight glass (black chloroprene)

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