

**MTZ160-4VI****Reciprocating compressor, MTZ160HW4AVE**

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	70.25 kg
Net weight	65 kg
EAN	5702428963282
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	4
Description	MTZ160-4
Diameter [mm]	352 mm
Discharge connection height [mm]	125 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	8504011e
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	no
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, MTZ160HW4AVE

PRODUCT DETAILS

High Side TS Max	150 °C
High Side TS Min	-35 °C
High Side Volume	1.2 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	IP54 (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	31 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	130 A
MCC	36 A
Model number	MTZ160HW4AVE
Motor protection	Internal overload protector
Mounting torque [Nm]	50 Nm
Nominal cooling capacity at 50Hz	20.3 kW
Nominal cooling capacity at 60Hz	25.6 kW
Number of starts per hour [Max]	12
Oil charge [L]	3.9 L
Oil equalization	3/8" flare SAE
Oil equalization torque [Nm]	30 Nm
Oil reference	175PZ
Packaging height [mm]	720 mm
Packaging length [mm]	570 mm
Packaging weight [Kg]	72 kg
Packaging width [mm]	400 mm
Packing format	Single pack
Packing quantity	1
Phase	3
Power connections	Screw connectors 10-32 UNF x 9.5
Refrigerant	R134a R404A R407A R407C R407F R448A R449A R452A R513A

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Product Detail | Reciprocating compressor, MTZ160HW4AVE

PRODUCT DETAILS

Refrigerant charge [kg] [Max]	10 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]	233 mm
Suction connection mounting torque [Nm]	110 Nm
Suction connection pipe size [in]	1 1/8 in
Suction connection rotolock size [in]	1 3/4 in
Suction connection size [in]	1 3/4 in
Suction connection sleeve pipe size [in]	1 1/8 in
Swept volume [cm ³]	271.55 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]	540 mm
Type	MTZ
Type designation	Compressor
Winding resistance for three-phase compressors with identical windings [Ohm]	1.15 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"



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

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Accessories

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

**8156007** [🔗](#)**Mounting kit**Mounting kit 4 cyl high

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

**8156135** [🔗](#)**Service kit for terminal box 96 x 115 mm, including 1 cover, 1 clamp**Service kit for terminal box 96 x 115 mm, including 1 cover, 1 clamp

**8173230** [🔗](#)**T block connector 52 x 57 mm**T block connector 52 x 57 mm

**120Z0577** [🔗](#)**Acoustic hood for four-cylinder compressor**Acoustic hood for four-cylinder compressor

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

**120Z0638** [🔗](#)**POE lubricant, 175PZ, 1-litre can**POE lubricant, 175PZ, 1-litre can

**8153004** [🔗](#)**Adaptor**Solder sleeve, P02 (1-3/4" rotolock, 1-1/8" ODF)

**8156131** [🔗](#)**Gasket, 1-1/4"**Gasket, 1-1/4"

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Spare Parts

**7703009** [↗](#)**Valve set**

Packing format: Multi pack, Packing quantity: 6

**7773118** [↗](#)**Belt type crankcase heater, 75 W, 400 V, CE mark, UL**

Belt type crankcase heater, 75 W, 400 V, CE mark, UL

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

Oil sight glass with gaskets (black and white)

**120Z0464** [↗](#)**Belt type crankcase heater, 75 W, 460 V, CE mark, UL**

Belt type crankcase heater, 75 W, 460 V, CE mark, UL

**7705007** [↗](#)**MCI**

Electronic soft start kit, MCI 25 C

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

Gasket for oil sight glass (black chloroprene)

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

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

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

PTC heater 27W, CE mark, UL

**8168028** [↗](#)**Rotolock valve, V02 (1-3/4" rotolock, 1-1/8" ODF), Service kit**

VALVE SETS V02 1 3/4"-1 1/8"

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Spare Parts



7773108 [🔗](#)

Belt type crankcase heater, 75 W, 230 V, CE mark, UL

Belt type crankcase heater, 75 W, 230 V, CE mark, UL

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