

**MTZ80-4VI****Reciprocating compressor, MTZ80HP4AVE**

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**

<b>Gross weight</b>	42.75 Kg
<b>Net weight</b>	40.42 Kg
<b>Volume</b>	62.049 Liter
<b>EAN</b>	5702428980487
<b>Approval standard</b>	CE UL
<b>Brand technique</b>	Reciprocating compressor
<b>Capacity control</b>	Fixed speed
<b>Colour</b>	Blue
<b>Compressor power supply [V/Ph/Hz]</b>	400/3/50 460/3/60
<b>Configuration code</b>	Single
<b>Connection type</b>	Rotolock
<b>Cylinder</b>	2
<b>Description</b>	MTZ080-4
<b>Diameter [mm]</b>	288 mm
<b>Discharge connection height [mm]</b>	74 mm
<b>Discharge connection pipe size [in]</b>	3/4 in
<b>Discharge connection size [in]</b>	1 1/4 in
<b>Drawing number</b>	8502012g
<b>Economizer</b>	No
<b>Factory HP [bar]</b>	25 bar
<b>Factory LP [bar]</b>	25 bar
<b>Family</b>	MTZ
<b>Fitting remark</b>	(shipped with rotolock version only)
<b>Fitting sleeve</b>	ODF
<b>Fitting standard</b>	Rotolock
<b>Frequency [Hz]</b>	50/60
<b>Gauge port HP</b>	None
<b>Gauge port LP</b>	Schrader
<b>Generation code</b>	B
<b>Glass mounting</b>	Threaded
<b>Glass torque [Nm]</b>	50 N-m
<b>GP LP torque [Nm]</b>	15 N-m
<b>High side max pressure (Ps)</b>	29.4 bar
<b>High Side TS Max</b>	150 °C
<b>High Side TS Min</b>	-35 °C
<b>High Side Volume</b>	0.6 L

## Product Detail | Reciprocating compressor, MTZ80HP4AVE

## 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	80 A
MCC	18 A
Model Number	MTZ80HP4AVE
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	10.5 kW
Nominal cooling capacity at 60Hz	13.4 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]	44 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
REACH Candidate List substances	Lead (CAS no. 7439-92-1)
0.1	
Refrigerant charge [kg] [Max]	5 kg
Refrigerants	R134a R404A R407A R407C R407F

**Product Detail | Reciprocating compressor, MTZ80HP4AVE**
**PRODUCT DETAILS**

	R448A
	R449A
	R452A
	R513A
<b>Relief valve</b>	30 bar/8 bar
<b>Rotational speed at 50Hz [rpm]</b>	2900 rpm
<b>Rotational speed at 60Hz [rpm]</b>	3500 rpm
<b>Segment usage</b>	Refrigeration MT
<b>Shipped fittings</b>	Suction and discharge solder sleeves, rotolock nuts and gaskets
<b>Shipped instructions</b>	Installation instructions
<b>Shipped mounting</b>	Mounting kit with grommets, bolts, nuts, sleeves and washers
<b>Shipped oil</b>	Initial oil charge
<b>Suction connection height [mm]</b>	265 mm
<b>Suction connection material</b>	-
<b>Suction connection pipe size [in]</b>	1 1/8 in
<b>Suction connection size [in]</b>	1 3/4 in
<b>Swept volume [cm<sup>3</sup>]</b>	135.78 cm <sup>3</sup>
<b>Technology</b>	Reciprocating
<b>Test dif [bar] [Max]</b>	30 bar
<b>Test HP [bar] [Max]</b>	30 bar
<b>Test LP [bar] [Max]</b>	25 bar
<b>Torque earth [Nm]</b>	3 N-m
<b>Torque power [Nm]</b>	3 N-m
<b>Total height [mm]</b>	413 mm
<b>Type</b>	MTZ080
<b>Winding resistance for three- phase compressors with identical windings [Ohm]</b>	1.94 Ohm

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**Accessories**

**120Z0638** [↗](#)
**Lubricant, 175PZ**

POE lubricant, 175PZ, 1-litre can


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

Acoustic hood for two-cylinder compressor


**8156134** [↗](#)
**Electrical component, Terminal box**

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

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Accessories



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



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



**120Z0764** [↗](#)  
**Mounting, Compressor kit**  
 Mounting kit 2 cylinder HP



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



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



**8156131** [↗](#)  
**Connector, GASKET**  
 Gasket, 1-1/4"



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



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

Spare Parts



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

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## Spare Parts

**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)

**8168028** [🔗](#)**Connector, Rotolock service valve**

Rotolock valve, V02 (1-3/4" rotolock, 1-1/8" ODF)

**7703009** [🔗](#)**Connector, Valve set**

Valve set, V02 (1-3/4"~1-1/8"), V04 (1-1/4"~3/4")

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

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

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

Gasket for oil sight glass (black chloroprene)

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

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

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

PTC heater 27W, CE mark, UL

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

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

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