

**MT80-4VI****Reciprocating compressor, MT80HP4AVE**

Refrigerants: R22, Segment usage: Refrigeration MT, Compressor power supply  
[V/Ph/Hz]: 400/3/50 460/3/60

**PRODUCT DETAILS**

<b>Gross weight</b>	44.5 Kg
<b>Net weight</b>	42 Kg
<b>Volume</b>	62.049 Liter
<b>EAN</b>	5702428839525
<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>	MT080-4
<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>	MT
<b>Fitting remark</b>	(shipped with rotolock version only)
<b>Fitting sleeve</b>	ODF
<b>Fitting standard</b>	Rotolock
<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>	27.8 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
<b>High value of nominal voltage at 50Hz [V]</b>	400 V

Danfoss can accept no responsibility for possible errors in catalogs, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without sub-sequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

## Product Detail | Reciprocating compressor, MT80HP4AVE

## PRODUCT DETAILS

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
Low side max pressure (Ps)	18.4 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	MT80HP4AVE
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 60 kBTU/h	80.2 kBTU/h
Nominal cooling capacity at 50Hz	17.8 kW
Nominal cooling capacity at 60Hz	23.5 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	160P
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	Reciprocating compressor MT
Refrigerant charge [kg] [Max]	5 kg
Refrigerants	R22
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

Danfoss can accept no responsibility for possible errors in catalogs, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without sub-sequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

**Product Detail | Reciprocating compressor, MT80HP4AVE**
**PRODUCT DETAILS**

<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>	MT080
<b>Viscosity [cP]</b>	32 cP
<b>Winding resistance for three-phase compressors with identical windings [Ohm]</b>	1.94 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"


**120Z0764** [🔗](#)
**Mounting, Compressor kit**

Mounting kit 2 cylinder HP


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

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


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

Acoustic hood for two-cylinder compressor

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

Danfoss can accept no responsibility for possible errors in catalogs, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without sub-sequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

---

**Accessories**


---

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

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

**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

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

Belt type crankcase heater, 65 W, 460 V

**7754001** [🔗](#)**Lubricant, 160P**

Mineral oil, 160P, 2-litre can

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

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

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

Oil sight glass with gaskets (black and white)

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

Belt type crankcase heater, 65 W, 230 V

---

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

Danfoss can accept no responsibility for possible errors in catalogs, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without sub-sequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

**Product Detail | Reciprocating compressor, MT80HP4AVE**

---

**Spare Parts**

---

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

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

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

PTC heater 27W

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

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

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

Gasket for oil sight glass (black chloroprene)

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

Belt type crankcase heater, 65 W, 400 V

**120Z0891** [🔗](#)**Heater, Belt heater**

Belt type crankcase heater, 65 W, 400 V

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

Danfoss can accept no responsibility for possible errors in catalogs, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without sub-sequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.