

**MTZ144-4VI****Reciprocating compressor, MTZ144HV4AVE**

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**

<b>Gross weight</b>	72.5 kg
<b>Net weight</b>	69 kg
<b>EAN</b>	5702428888288
<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>	4
<b>Description</b>	MTZ144-4
<b>Diameter [mm]</b>	352 mm
<b>Discharge connection height [mm]</b>	125 mm
<b>Discharge connection mounting torque [Nm]</b>	90 Nm
<b>Discharge connection pipe size [in]</b>	3/4 in
<b>Discharge connection rotolock size [in]</b>	1 1/4 in
<b>Discharge connection size [in]</b>	1 1/4 in
<b>Discharge connection sleeve pipe size [in]</b>	3/4 in
<b>Drawing number</b>	8504011e
<b>Economizer</b>	No
<b>Factory HP [bar]</b>	25 bar
<b>Factory LP [bar]</b>	25 bar
<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>	no
<b>Glass mounting</b>	Threaded
<b>Glass torque [Nm]</b>	50 Nm
<b>GP LP torque [Nm]</b>	15 Nm
<b>High side max pressure (Ps)</b>	29.4 bar

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, MTZ144HV4AVE**
**PRODUCT DETAILS**

<b>High Side TS Max</b>	150 °C
<b>High Side TS Min</b>	-35 °C
<b>High Side Volume</b>	1.2 L
<b>High value of nominal voltage at 50Hz [V]</b>	400 V
<b>High value of nominal voltage at 60Hz [V]</b>	460 V
<b>High value of voltage range at 50Hz [V]</b>	460 V
<b>High value of voltage range at 60Hz [V]</b>	506 V
<b>IP protection class</b>	IP54 (with cable gland)
<b>Low side max pressure (Ps)</b>	22.6 bar
<b>Low Side TS Max</b>	50 °C
<b>Low Side TS Min</b>	-35 °C
<b>Low Side Volume</b>	31 L
<b>Low value of nominal voltage at 50Hz [V]</b>	380 V
<b>Low value of nominal voltage at 60Hz [V]</b>	460 V
<b>Low value of voltage range at 50Hz [V]</b>	340 V
<b>Low value of voltage range at 60Hz [V]</b>	414 V
<b>LRA</b>	130 A
<b>MCC</b>	36 A
<b>Model number</b>	MTZ144HV4AVE
<b>Motor protection</b>	Internal overload protector
<b>Mounting torque [Nm]</b>	50 Nm
<b>Nominal cooling capacity at 50Hz</b>	18.5 kW
<b>Nominal cooling capacity at 60Hz</b>	23.6 kW
<b>Number of starts per hour [Max]</b>	12
<b>Oil charge [L]</b>	3.9 L
<b>Oil equalization</b>	3/8" flare SAE
<b>Oil equalization torque [Nm]</b>	30 Nm
<b>Oil reference</b>	175PZ
<b>Packaging height [mm]</b>	720 mm
<b>Packaging length [mm]</b>	570 mm
<b>Packaging weight [Kg]</b>	72 kg
<b>Packaging width [mm]</b>	400 mm
<b>Packing format</b>	Single pack
<b>Packing quantity</b>	1
<b>Phase</b>	3
<b>Power connections</b>	Screw connectors 10-32 UNF x 9.5
<b>Refrigerant</b>	R134a R404A R407A R407C R407F R448A R449A R452A R513A

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, MTZ144HV4AVE**
**PRODUCT DETAILS**

<b>Refrigerant charge [kg] [Max]</b>	10 kg
<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>	Air conditioning 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>	233 mm
<b>Suction connection mounting torque [Nm]</b>	110 Nm
<b>Suction connection pipe size [in]</b>	1 1/8 in
<b>Suction connection rotolock size [in]</b>	1 3/4 in
<b>Suction connection size [in]</b>	1 3/4 in
<b>Suction connection sleeve pipe size [in]</b>	1 1/8 in
<b>Swept volume [cm<sup>3</sup>]</b>	241.87 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 Nm
<b>Torque power [Nm]</b>	3 Nm
<b>Total height [mm]</b>	540 mm
<b>Type</b>	MTZ
<b>Type designation</b>	Compressor
<b>Winding resistance for three-phase compressors with identical windings [Ohm]</b>	1.15 Ohm

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

**Accessories**

**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


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

Acoustic hood for four-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.

**Product Detail | Reciprocating compressor, MTZ144HV4AVE****Accessories****8173230** [🔗](#)**T block connector 52 x 57 mm**

T block connector 52 x 57 mm

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

POE lubricant, 175PZ, 2.5L CAN

**8153008** [🔗](#)**Adaptor**

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

**8153004** [🔗](#)**Adaptor**

Solder sleeve, P02 (1-3/4" rotolock, 1-1/8" ODF)

**8156007** [🔗](#)**Mounting kit**

Mounting kit 4 cyl high

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

Discharge thermostat kit

**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"

**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** [🔗](#)

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.

Spare Parts



**7773118** [↗](#)

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

Belt type crankcase heater, 75 W, 400 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)



**7773108** [↗](#)

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

Belt type crankcase heater, 75 W, 230 V, 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"



**8156019** [↗](#)

**Oil sight glass with gaskets (black and white)**

Oil sight glass with gaskets (black and white)



**7703009** [↗](#)

**Valve set**

Packing format: Multi pack, Packing quantity: 6



**120Z0464** [↗](#)

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

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



**8168029** [↗](#)

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

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

**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.

Spare Parts

---



**120Z0459** [🔗](#)

**PTC heater 27W, CE mark, UL**

PTC heater 27W, CE mark, UL

---

**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.