

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

Refrigerants: R404A; R407C; R452A; R407A; R134a; R407F; R513A; R448A; R449A,
Segment usage: Refrigeration MT, Compressor power supply [V]: 400/3/50
460/3/60, Packing format: Single pack

PRODUCT DETAILS

Gross weight	72.75 Kg
Net weight	69 Kg
Volume	100.75 Liter
EAN	5702428888288
Approval	CE UL UKCA
Brand technique	Reciprocating compressor
Capacity control	Fixed speed
China RoHS compliance	Out of scope
Colour	Blue
Compressor power supply [V]	400/3/50 460/3/60
Configuration code	Single
Connection type	Rotolock
Cylinder	4
Description	MTZ144-4
Diameter [mm]	352 mm
Discharge connection height [mm]	125 mm
Discharge connection pipe size [in]	3/4 in
Discharge connection size [in]	1 1/4 in
Drawing number	8504011e
Economizer	No
EU RoHS compliance	Yes with exemptions
EU RoHS exemption clause	6(a), 6(a)-I, 7(a), 7(c)-I, 8(b), 9(b)
Factory HP [bar]	25 bar
Factory LP [bar]	25 bar
Family	MTZ
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
Glass mounting	Threaded
Glass torque [Nm]	50 N-m
GP LP torque [Nm]	15 N-m
High Side TS Max	150 °C
High Side TS Min	-35 °C

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Product Detail | Reciprocating compressor, MTZ144HV4AVE

PRODUCT DETAILS

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
In scope of WEEE and contain batteries	No
IP protection class	IP54 (with cable gland)
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
Max pressure (PS) - high side	29.4 bar
Max pressure (PS) - low side	22.6 bar
MCC	36 A
Model number	MTZ144HV4AVE
Motor protection	Internal overload protector
Mounting torque [Nm]	50 N-m
Network power supply [V/Ph/Hz]	380-415/3/50 460/3/60
Number of starts per hour [Max]	12
Oil charge [L]	3.9 L
Oil equalization	3/8" flare SAE
Oil equalization torque [Nm]	30 N-m
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
Product group	Hermetic compressors
Product Name Description	MTZ
REACH Candidate List substances	Lead (CAS no. 7439-92-1)
Refrigerant charge [kg] [Max]	10 kg
Refrigerants	R134a R404A R407A R407C

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Product Detail | Reciprocating compressor, MTZ144HV4AVE

PRODUCT DETAILS

	R407F
	R448A
	R449A
	R452A
	R513A
Rotational speed at 50Hz [rpm]	2900 rpm
Rotational speed at 60Hz [rpm]	3500 rpm
SCIP dossier no.	6971587b-85b6-4808-886d-274e8a9998d4
Segment usage	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 material	-
Suction connection pipe size [in]	1 1/8 in
Suction connection size [in]	1 3/4 in
Swept volume [cm³]	241.87 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 N-m
Torque power [Nm]	3 N-m
Total height [mm]	540 mm
Type	MTZ144
UK RoHS compliance	Out of scope
Winding resistance for three-phase compressors with identical windings [Ohm]	1.15 Ohm
Proposition 65	WARNING: Cancer and Reproductive Harm www.p65warnings.ca.gov

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

Accessories



8156135 [🔗](#)

Electrical component, Terminal box

Service kit for terminal box 96 x 115 mm, including 1 cover, 1 clamp



120Z0577 [🔗](#)

Acoustic hood, Reciprocating

Acoustic hood for four-cylinder compressor

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

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Accessories



8173230 [🔗](#)
Electrical component, T block
 T block connector 52 x 57 mm



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)



8156007 [🔗](#)
Mounting, Compressor kit
 Mounting kit for four-cylinder compressor and MS, including 4 grommets, 4 bolts



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



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



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



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



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

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Spare Parts

**7773118** [🔗](#)**Crankcase heater, Belt heater**

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

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

Gasket for oil sight glass (black chloroprene)

**7773108** [🔗](#)**Crankcase heater, Belt heater**

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

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

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

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

Oil sight glass with gaskets (black and white)

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

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

**120Z0464** [🔗](#)**Crankcase heater, Belt heater**

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

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

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

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

PTC heater 27W, CE mark, UL

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