



MTZ125-4VI 🗷

Reciprocating compressor, MTZ125HU4VE

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

Net weight 6.3 kg	Gross weight	67.88 kg
Approval standard CE UL Reciprocating compressor Capacity control Fixed speed Colour Blue Compressor power supply [V/Ph/ 400/3/50 460/3/60 Hz] Configuration code Single Connection type Rotolock Connection type Rotolock Connection type Addition MTZ125-4 Diameter [mm] Bischarge connection height [mm] Discharge connection mounting Only Single Discharge connection pipe size [in] Discharge connection pipe size [in] Discharge connection size [in] Dischar	Net weight	63.3 kg
Brand technique Reciprocating compressor Capacity control Fixed speed Colour Blue Compressor power supply [V/Ph/ 400/3/50 460/3/60 Hz] Configuration code Single Consction type Rotolock Cylinder 4 Discharge connection height [mm] 352 mm Discharge connection height [mm] 125 mm Discharge connection pipe size [in] 3/4 in Discharge connection pipe size [in] 3/4 in Discharge connection size [in] 11/4 in Discharge connection size [in] 11/4 in Discharge connection size [in] 11/4 in Discharge connection size [in] 25 bar Factory IP [bar] 25 bar Factory IP [bar] 25 bar Fitting steeve ODF Fitting steadard Rotolock Frequency [Hz] 50/60 Gauge port LP Schrader Gauss The Manual Company (Amone) Gauss mounting Theaded Glass torque [Nm] 50 Nm GP LP torque [Nm] 50 Nm GP LP torque [Nm] 50 Nm	EAN	5702428980593
Reciprocating compressor	Approval standard	CE
Capacity control Colour Blue Compressor power supply [V/Ph/ Hz] Configuration code Single Connection type Rotolock Cylinder 4 Pescription MTZ125-4 Diameter [mm] 352 mm Discharge connection height [mm] Discharge connection pipe size [in] Discharge connection pipe size [in] Discharge connection size [in] Discha		UL
Colour Blue Compressor power supply (V/Ph/ Hz) Configuration code Single Connection type Rotolock Cylinder 4 Discharge connection height [mm] 125 mm Discharge connection mounting 90 Nm torque [Nm] Discharge connection pipe size [in] 3/4 in Discharge connection pipe size [in] 11/4 in Discharge connection size [in] 1 1/4 in Discharge connection size [in] 3/4 in Discharge connection size [in] 1 1/4 in Discharge connection size [in] 2 5 bar Factory IP [bar] 25 bar Factory LP [bar] 25 bar Factory LP [bar] 25 bar Factory LP [bar] 25 bar Fitting remark (shipped with rotolock version only) Fitting sieeve OPF Fitting standard Rotolock Frequency [Hz] 50/60 Gauge port LP Schrader Generation code no Glass mounting Threaded Glass torque [Nm] 50 Nm GP LP torque [Nm] 15 Nm	Brand technique	Reciprocating compressor
Compessor power supply [V/Ph/	Capacity control	Fixed speed
Hz] Configuration code Single Connection type Rotolock Cylinder 4 Description MTZ125-4 Diameter [mm] 332 mm Discharge connection height [mm] Discharge connection mounting torque [Nm] Discharge connection pipe size [in] Discharge connection pipe size [in] Discharge connection siz	Colour	Blue
Configuration code Connection type Rotolock Cylinder 4 Description MTZ125-4 Diameter [mm] 352 mm Discharge connection height [mm] Discharge connection mounting torque [Nm] Discharge connection pipe size [in] Discharge connection pipe size [in] Discharge connection size [in] Disc	Compressor power supply [V/Ph/	400/3/50 460/3/60
Connection type Cylinder 4 Description MTZ125-4 Diameter [mm] MTZ125-4 Discharge connection height [mm] MTZ125 mm Discharge connection mounting MTZ125 mm Discharge connection pipe size [in] MTZ125 mm Discharge connection pipe size [in] MTZ125 mm Discharge connection rotolock size MTZ14 in MTZ125 mm Discharge connection size [in] MTZ125 mm Discharge connection size [in] MTZ125 mm Discharge connection size [in] MTZ125 mm MTX125 mm MTZ125 mm MTZ12	Hz]	
Cylinder 4 Description MTZ125-4 Diameter [mm] 352 mm Discharge connection height [mm] 125 mm Discharge connection mounting 90 Nm torque [Nm] 3/4 in Discharge connection rotolock size [in] 3/4 in Discharge connection size [in] 1 1/4 in Discharge connection size [in] 2 1/4 in Discharge connection size [in] 1 1/4 in Discharge connection size [in] 2 5/4 in Size [in] 5 5/4 in Size [in] 7 5/4 in Size [in] 7 5/4 in Size [in] 8 5/4 in Size [in] 8 5/4 in Size [in] 8 5/4 in Size [in] 9 5/4 in Size [in] 1 5	Configuration code	Single
Description MTZ125-4 Diameter [mm] 352 mm Discharge connection height [mm] 125 mm Discharge connection mounting 90 Nm torque [Nm] Discharge connection pipe size [in] 3/4 in Discharge connection size [in] 11/4 in Discharge connection size [in] 25 bar Factory HP [bar] 25 bar Factory LP [bar] 25 bar Fitting remark (shipped with rotolock version only) Fitting sleave ODF Fitting standard Rotolock Frequency [Hz] 50/60 Gauge port LP Schrader Generation code no Glass mounting Threaded Glass torque [Nm] 50 Nm GP LP torque [Nm]	Connection type	Rotolock
Diameter [mm] 352 mm Discharge connection height [mm] 125 mm Discharge connection mounting 90 Nm torque [Nm] 3/4 in Discharge connection pipe size [in] 3/4 in Discharge connection rotolock size 1 1/4 in Discharge connection size [in] 1 1/4 in Discharge connection size [in] 1 1/4 in Discharge connection sleeve pipe 3/4 in size [in]	Cylinder	4
Discharge connection height [mm] 125 mm Discharge connection mounting 90 Nm torque [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 size [in] 1 1/4 in Discharge connection size [in] 1 1/4 in Discharge connection sleeve pipe 3/4 in size [in] Drawing number 8504010f 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]	Description	MTZ125-4
Discharge connection mounting torque [Nm] Discharge connection pipe size [in] 3/4 in Discharge connection rotolock size 11/4 in [in] Discharge connection size [in] 11/4 in Discharge connection size [in] 11/4 in Discharge connection size [in] 3/4 in size [in] Drawing number 8504010f 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 LP Schrader Gauge port LP Schrader Generation code no Glass mounting Threaded Glass torque [Nm] 55 Nm	Diameter [mm]	352 mm
torque [Nm] Discharge connection pipe size [in] 3/4 in Discharge connection rotolock size 1 1 1/4 in [in] Discharge connection size [in] 1 1 1/4 in Discharge connection sleeve pipe 3/4 in size [in] Drawing number 8504010f 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 LP Schrader Gauge port LP Schrader Gauge port LP Schrader Galass mounting Threaded Glass torque [Nm] 50 Nm GP LP torque [Nm] 15 Nm	Discharge connection height [mm]	125 mm
Discharge connection pipe size [in] Discharge connection rotolock size [in] Discharge connection size [in] 1 1/4 in Discharge connection size [in] 1 1/4 in Discharge connection sleeve pipe 3/4 in size [in] Drawing number 8504010f Economizer No Factory HP [bar] 25 bar Factory LP [bar] 25 bar Fitting remark (shipped with rotolock version only) Fitting sleeve Fitting standard Rotolock Frequency [Hz] So/60 Gauge port HP None Gauge port LP Generation code no Glass mounting Threaded Glass torque [Nm] GP LP torque [Nm] 15 Nm	Discharge connection mounting	90 Nm
Discharge connection rotolock size [in] 1 1/4 in Discharge connection size [in] 1 1/4 in Discharge connection sleeve pipe 3/4 in size [in] Drawing number 8504010f 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	torque [Nm]	
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Discharge connection size [in] Discharge connection sleeve pipe size [in] Drawing number Economizer No Factory HP [bar] Factory LP [bar] Fitting remark (shipped with rotolock version only) Fitting sleeve ODF Fitting standard Rotolock Frequency [Hz] Gauge port HP None Gauge port LP Generation code Glass mounting Glass torque [Nm] GP LP torque [Nm] 1 1/4 in 1 1/4	Discharge connection rotolock size	1 1/4 in
Discharge connection sleeve pipe size [in] Drawing number 8504010f Economizer No Factory HP [bar] 25 bar Factory LP [bar] 75 bar Fitting remark Fitting sleeve ODF Fitting standard Rotolock Frequency [Hz] Gauge port HP None Gauge port LP Generation code no Glass mounting Glass torque [Nm] GP LP torque [Nm] 3/4 in 3/4 in 3/4 in 3/4 in 3/4 in 8504010f 8504010f Ano ODF Rotolock version only) ODF Schrader Schrader Threaded Glass torque [Nm] 15 Nm	<u> </u>	
size [in]Drawing number8504010fEconomizerNoFactory HP [bar]25 barFactory LP [bar]25 barFitting remark(shipped with rotolock version only)Fitting sleeveODFFitting standardRotolockFrequency [Hz]50/60Gauge port HPNoneGauge port LPSchraderGeneration codenoGlass mountingThreadedGlass torque [Nm]50 NmGP LP torque [Nm]15 Nm	Discharge connection size [in]	1 1/4 in
Drawing number8504010fEconomizerNoFactory HP [bar]25 barFactory LP [bar]25 barFitting remark(shipped with rotolock version only)Fitting sleeveODFFitting standardRotolockFrequency [Hz]50/60Gauge port HPNoneGauge port LPSchraderGeneration codenoGlass mountingThreadedGlass torque [Nm]50 NmGP LP torque [Nm]15 Nm	Discharge connection sleeve pipe	3/4 in
EconomizerNoFactory HP [bar]25 barFactory LP [bar]25 barFitting remark(shipped with rotolock version only)Fitting sleeveODFFitting standardRotolockFrequency [Hz]50/60Gauge port HPNoneGauge port LPSchraderGeneration codenoGlass mountingThreadedGlass torque [Nm]50 NmGP LP torque [Nm]15 Nm	size [in]	
Factory HP [bar]25 barFactory LP [bar]25 barFitting remark(shipped with rotolock version only)Fitting sleeveODFFitting standardRotolockFrequency [Hz]50/60Gauge port HPNoneGauge port LPSchraderGeneration codenoGlass mountingThreadedGlass torque [Nm]50 NmGP LP torque [Nm]15 Nm	Drawing number	8504010f
Factory LP [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 Generation code no Glass mounting Glass torque [Nm] Factory LP [bar] Sobrader Threaded GP LP torque [Nm] 15 Nm	Economizer	No
Fitting remark Fitting sleeve ODF Fitting standard Rotolock Frequency [Hz] 50/60 Gauge port HP None Gauge port LP Generation code no Glass mounting Glass torque [Nm] GP LP torque [Nm] (shipped with rotolock version only) None Sobre Rotolock Frequency (Hz) 50/60 None Schrader None Schrader Threaded 50 Nm	Factory HP [bar]	25 bar
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		25 bar
Fitting standard 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]		· · ·
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	Fitting sleeve	ODF
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	Fitting standard	Rotolock
Gauge port LP Schrader Generation code no Glass mounting Threaded Glass torque [Nm] 50 Nm GP LP torque [Nm] 15 Nm		50/60
Generation code no Glass mounting Threaded Glass torque [Nm] 50 Nm GP LP torque [Nm] 15 Nm	Gauge port HP	None
Glass mounting Threaded Glass torque [Nm] 50 Nm GP LP torque [Nm] 15 Nm	Gauge port LP	Schrader
Glass torque [Nm] 50 Nm GP LP torque [Nm] 15 Nm	Generation code	no
GP LP torque [Nm] 15 Nm	Glass mounting	Threaded
	Glass torque [Nm]	50 Nm
High side max pressure (Ps) 29.4 bar	GP LP torque [Nm]	15 Nm
3 1 1 1 1 P 1 1 1 1 1 1 1 1 1 1 1 1 1 1	High side max pressure (Ps)	29.4 bar



High Side TS Max	150 ℃
High Side TS Min	-35 °C
High Side Volume	1.2 L
High value of nominal voltage at	400 V
50Hz [V]	
High value of nominal voltage at	460 V
60Hz [V]	
High value of voltage range at 50Hz	460 V
[V]	
High value of voltage range at 60Hz	506 V
[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	380 V
50Hz [V]	
Low value of nominal voltage at	460 V
60Hz [V]	
Low value of voltage range at 50Hz	340 V
[V]	
Low value of voltage range at 60Hz	414 V
[V]	
LRA	105 A
MCC	27 A
Model number	MTZ125HU4VE
Motor protection	Internal overload protector
Mounting torque [Nm]	50 Nm
Nominal cooling capacity at 50Hz	15.7 kW
Nominal cooling capacity at 60Hz	20 kW
Number of starts per hour [Max]	12
Oil charge [L]	3.9 L
Oil equalization	3/8" flare SAE
Oil equalization Oil equalization torque [Nm]	3/8" flare SAE 30 Nm
Oil equalization torque [Nm]	30 Nm
Oil equalization torque [Nm] Oil reference	30 Nm 175PZ
Oil equalization torque [Nm] Oil reference Packaging height [mm]	30 Nm 175PZ 720 mm
Oil equalization torque [Nm] Oil reference Packaging height [mm] Packaging length [mm]	30 Nm 175PZ 720 mm 570 mm
Oil equalization torque [Nm] Oil reference Packaging height [mm] Packaging length [mm] Packaging weight [Kg]	30 Nm 175PZ 720 mm 570 mm 71 kg
Oil equalization torque [Nm] Oil reference Packaging height [mm] Packaging length [mm] Packaging weight [Kg] Packaging width [mm]	30 Nm 175PZ 720 mm 570 mm 71 kg 400 mm
Oil equalization torque [Nm] Oil reference Packaging height [mm] Packaging length [mm] Packaging weight [Kg] Packaging width [mm] Packing format	30 Nm 175PZ 720 mm 570 mm 71 kg 400 mm Single pack
Oil equalization torque [Nm] Oil reference Packaging height [mm] Packaging length [mm] Packaging weight [Kg] Packaging width [mm] Packing format Packing quantity	30 Nm 175PZ 720 mm 570 mm 71 kg 400 mm Single pack 1
Oil equalization torque [Nm] Oil reference Packaging height [mm] Packaging length [mm] Packaging weight [Kg] Packaging width [mm] Packing format Packing quantity Phase	30 Nm 175PZ 720 mm 570 mm 71 kg 400 mm Single pack 1
Oil equalization torque [Nm] Oil reference Packaging height [mm] Packaging length [mm] Packaging weight [Kg] Packaging width [mm] Packing format Packing quantity Phase Power connections	30 Nm 175PZ 720 mm 570 mm 71 kg 400 mm Single pack 1 3 Screw connectors 10-32 UNF x 9.5 R134a R404A
Oil equalization torque [Nm] Oil reference Packaging height [mm] Packaging length [mm] Packaging weight [Kg] Packaging width [mm] Packing format Packing quantity Phase Power connections	30 Nm 175PZ 720 mm 570 mm 71 kg 400 mm Single pack 1 3 Screw connectors 10-32 UNF x 9.5 R134a R404A R407C
Oil equalization torque [Nm] Oil reference Packaging height [mm] Packaging length [mm] Packaging weight [Kg] Packaging width [mm] Packing format Packing quantity Phase Power connections	30 Nm 175PZ 720 mm 570 mm 71 kg 400 mm Single pack 1 3 Screw connectors 10-32 UNF x 9.5 R134a R404A R407C R407A
Oil equalization torque [Nm] Oil reference Packaging height [mm] Packaging length [mm] Packaging weight [Kg] Packaging width [mm] Packing format Packing quantity Phase Power connections	30 Nm 175PZ 720 mm 570 mm 71 kg 400 mm Single pack 1 3 Screw connectors 10-32 UNF x 9.5 R134a R404A R407C R407A R407F
Oil equalization torque [Nm] Oil reference Packaging height [mm] Packaging length [mm] Packaging weight [Kg] Packaging width [mm] Packing format Packing quantity Phase Power connections	30 Nm 175PZ 720 mm 570 mm 71 kg 400 mm Single pack 1 3 Screw connectors 10-32 UNF x 9.5 R134a R404A R407C R407A R407F R448A
Oil equalization torque [Nm] Oil reference Packaging height [mm] Packaging length [mm] Packaging weight [Kg] Packaging width [mm] Packing format Packing quantity Phase Power connections	30 Nm 175PZ 720 mm 570 mm 71 kg 400 mm Single pack 1 3 Screw connectors 10-32 UNF x 9.5 R134a R404A R407C R407A R407F R448A R449A
Oil equalization torque [Nm] Oil reference Packaging height [mm] Packaging length [mm] Packaging weight [Kg] Packaging width [mm] Packing format Packing quantity Phase Power connections	30 Nm 175PZ 720 mm 570 mm 71 kg 400 mm Single pack 1 3 Screw connectors 10-32 UNF x 9.5 R134a R404A R407C R407A R407F R448A



PRODUCT DETAILS

. 1105001. 52.7.1125	
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	110 Nm
torque [Nm]	
Suction connection pipe size [in]	1 1/8 in
Suction connection rotolock size	1 3/4 in
[in]	
Suction connection size [in]	1 3/4 in
Suction connection sleeve pipe size	1 1/8 in
[in]	
Swept volume [cm3]	215.44 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]	519 mm
Туре	MTZ
Type designation	Compressor
Winding resistance for three-	1.45 Ohm
phase compressors with identical	
windings [Ohm]	

For Documents, Software, Visuals and more information, please use this link to visit the product page on Danfoss Product Store 🖸

Accessories



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

For 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



120Z0638 🗷

POE lubricant, 175PZ, 1-litre can

POE lubricant, 175PZ, 1-litre can



7750009 🗷

Discharge thermostat kit

Discharge thermostat kit



8156132 🗷

Gasket, 1-3/4"

Gasket, 1-3/4"



8173230 🗷

T block connector 52 x 57 mm

T block connector 52 x 57 mm



8156009 12

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



8153004 🗷

Adaptor

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



8153008 🗷

Adaptor

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



8156007 🗷

Mounting kit

Mounting kit 4 cyl high



8156131 🗷

Gasket, 1-1/4"

Gasket, 1-1/4"

For more information, please use this link to visit the product page on Danfoss Product Store 🗅



Spare Parts



120Z0459 🗷

PTC heater 27W, CE mark, UL

PTC heater 27W, CE mark, UL



7703009 🗷

Valve set

Packing format: Multi pack, Packing quantity: 6



8168029 🗷

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

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



8168028 🗷

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

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



8156145 🗷

Gasket for oil sight glass (black chloroprene)

Gasket for oil sight glass (black chloroprene)



120Z0464 🗷

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

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



7773108 🗷

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

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



7705007 🗷

MC

Electronic soft start kit, MCI 25 C



7773118 🗷

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

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



Spare Parts



8156019 🗷

Oil sight glass with gaskets (black and white)

Oil sight glass with gaskets (black and white)