

Product details

Documents

Certificates

Visuals

Accessories

Spare Parts

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Product details

Gross weight	39.5 Kilogram
Net weight	37 Kilogram
Volume	63.492 Liter
EAN	5702428888103
Type	MTZ050
Product group	Hermetic compressors
Product Name Description	Reciprocating compressor MTZ



Brand technique	Reciprocating compressor					
	Product details	Documents	Certificates	Visuals	Accessories	Spare Parts
Capacity control				Fixed speed		
CE evaluated				Yes		
China RoHS compliance				Yes with exemptions		
Colour				Blue		
Compressor power supply [V]				200-230/3/60		
Configuration code				Single		
Connection type				Rotolock		
Contains batteries				No		
Cylinder				2		
Description				MTZ050-3		
Diameter [mm]				288 mm		
Discharge connection height [mm]				74 mm		
Discharge connection pipe size [in]				3/4 in		
Discharge connection size [in]				1 1/4 in		
Drawing number				8502012g		
Economizer				No		
EU RoHS compliance				Yes with exemptions		
EU RoHS exemption clause				6(a) 6(c)		
Factory HP [bar]				25 bar		
Factory LP [bar]				25 bar		
Family				MTZ		
Fitting remark				(shipped with rotolock version only)		

Fitting sleeve				ODF				
Fitting standard	Product details	Documents	Certificates	Visuals	Rotolock	Accessories	Spare Parts	Up to 1000
Frequency [Hz]				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				
High Side Volume				0.6 L				
High value of nominal voltage at 60Hz [V]				230 V				
High value of voltage range at 60Hz [V]				253 V				
In scope of WEEE				No				
IP protection class				IP55 (with cable gland)				
Low Side TS Max				50 °C				
Low Side TS Min				-35 °C				
Low Side Volume				16.5 L				
Low value of nominal voltage at 60Hz [V]				200 V				
Low value of voltage range at 60Hz [V]				180 V				
LRA				115 A				
Max pressure (PS) - high side				29.4 bar				
Max pressure (PS) - low side				22.6 bar				
MCC				25 A				

Model number			MTZ50HK3BVE										
Motor protection	Product details	Documents	Certificates	Visuals	Internal overload protector	Accessories	Spare Parts	Installation					
Product details													
Mounting torque [Nm]				15 N-m									
Network power supply [V/Ph/Hz]				208-230/3/60									
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]				39 kg									
Packaging width [mm]				365 mm									
Packing format				Single pack									
Packing quantity				1									
Phase				3									
Power connections				Spade									
REACH Candidate List substances				Lead (CAS no. 7439-92-1)									
Refrigerant charge [kg] [Max]				5 kg									

Refrigerants				R134a						
				R404A						
Product details	Documents	Certificates	Visuals	R407A	Accessories	Spare Parts	Links			
				R407C						
				R407F						
				R448A						
				R449A						
				R452A						
				R513A						
				R454A						
				R454C						
				R455A						
Rotational speed at 60Hz [rpm]				3500 rpm						
SCIP dossier no.				9b3fb119-9852-486a-92dd-53aa9c96fd3b						
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]				265 mm						
Suction connection material				-						
Suction connection pipe size [in]				7/8 in						
Suction connection size [in]				1 3/4 in						
Swept volume [cm3]				85.64 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]		Documents	Certificates	Visuals	Accessories	Spare Parts		
413 mm								
Product details				UL evaluated				
Winding resistance for three-phase compressors with identical windings [Ohm]				0.74 Ohm				

Documents

Documen...	Brazil	English	Title
Application guide	Brazil	English	Maneurop® reciprocating compressors MT and MTZ (//assets.danfoss.com/documents/521098/AB196386425654021801.pdf) AB196386425654en-021801 11691 KB
Brochure	Brazil	English	Brochure Compressors for A/C bringing Savings now and for lifetime (//assets.danfoss.com/documents/97179/AD215286440650000202.pdf) AD21528644065000-000202 4152 KB
Brochure	Brazil	English	Compressors: watch out for counterfeits to protect your image (//assets.danfoss.com/documents/96570/AD170086418808010501.pdf) AD170086418808en-010501 459 KB
Catalog	Brazil	English	Spare parts and accessories Danfoss Commercial Compressor for hermetic reciprocating and scroll compressors (AC/HP & REF) (//assets.danfoss.com/documents/465856/AF200886436047000902.pdf) AF200886436047en-000902 4827 KB
Installation guide	Brazil	English	Danfoss reciprocating compressors MT / MTZ / NTZ / VTZ (//assets.danfoss.com/documents/515590/AN505933792847000101.pdf) AN50593379284701-000101 4582 KB

			Title
Installation	Brazil	English	Instructions Danfoss reciprocating compressors MT / MTZ / N
Product details	Documents	Certificates	MTZ Visuals Accessories Spare Parts
			(//assets.danfoss.com/documents/354985/AN133486439039000702.pdf)
			AN13348643903904-000702
			4366 KB
Notification	Brazil	English	Released for R407A / R407F refrigerants
			(//assets.danfoss.com/documents/59790/AP136386417202en000201.pdf)
			AP136386417202en-000201
			371 KB
Promotion material	Brazil	English	Refrigeration compressors_CC Portfolio and Refrigerants_Infographic
			(//assets.danfoss.com/documents/190969/AV393337876467000101.pdf)
			AV393337876467en-000101
			592 KB
Safety guide	Brazil	English	Safety data sheet, Polyolester oil 175PZ _ English July 2024
			(//assets.danfoss.com/documents/407060/BH261646311103000401.pdf)
			BH261646311103en-000401
			157 KB
Brochure	Brazil	Brazilian Portuguese	Brochure Compressores para Ar-condicionado Comercial: Economia agora e pela vida inteira
			(//assets.danfoss.com/documents/97210/AD215286440650pt000401.pdf)
			AD215286440650pt-000401
			4251 KB

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Certificates

Document Type	Brazil	English	Title
Product details	Documents	Certificates	Visuals
			Accessories
			Spare Parts
			Installation
EU Declaration	Brazil	English	Danfoss EU 8555013 AK (//assets.danfoss.com/approvals/468710/ID375130414950901.pdf) ID375130414995-0901 258 KB
Electrical Safety Certificate	Brazil	English	KTL ZW07024-15002E (//assets.danfoss.com/approvals/158268/ID365929980110101.pdf) ID365929980116-0101 1033 KB
Export Control Declaration	Brazil	English	Reciprocating Compressors (//assets.danfoss.com/approvals/395928/ID482933613810201.pdf) ID482933613816-0201 242 KB
Manufacturer's Declaration	Brazil	English	Danfoss MD 8555014 AG (//assets.danfoss.com/approvals/514532/ID365946860740701.pdf) ID365946860740-0701 109 KB
Manufacturer's Declaration	Brazil	English	Danfoss MD 8555016 AF (//assets.danfoss.com/approvals/514535/ID365946861740701.pdf) ID365946861741-0701 113 KB
Manufacturer's Declaration	Brazil	English	Danfoss MD 8555030 AH (//assets.danfoss.com/approvals/514527/ID365946865740701.pdf) ID365946865744-0701 143 KB
Manufacturer's Declaration	Brazil	English	Danfoss MD 8555032 AE (//assets.danfoss.com/approvals/517131/ID365946790680601.pdf) ID365946790688-0601 76 KB

			Title
Manufacturer's Declaration	Brazil	English	Danfoss MD 8555037 AC (//assets.danfoss.com/approvals/51546/ID473529644794-0201.pdf) ID473529644794-0201 250 KB
Product details	Documents	Certificates	Visuals
Accessories	Spares	Parts	
Manufacturer's Declaration	Brazil	English	Danfoss MD 8555038 AB (//assets.danfoss.com/approvals/465452/ID381948536328-0102.pdf) ID381948536328-0102 219 KB
Mechanical Safety Certificate	Brazil	English	UL SA6873 (//assets.danfoss.com/approvals/484335/ID366040907092-0401.pdf) ID366040907092-0401 363 KB

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Visuals

Visuals	Document Category	Title	Download
Product details	Documents	Certificates	Visuals
Accessories	Spare Parts		
	3D model	MTZ044 MT044	› ID418261022400-0101.png
		MTZ045 MT045	(//assets.danfoss.com/drawings/203001/ID418261022400-
		MTZ050 MT050	0101.png)
		MTZ051 MT051	
		MTZ056 MT056	
		MTZ057 MT057	
		MTZ064 MT064	
		MTZ065 MT065	
		MTZ072 MT072	
		MTZ073 MT073	
		MTZ080 MT080	
		MTZ081 MT081	
		NTZ096	
		NTZ108	
		NTZ136	
	2D CAD single- and multi-view drawing	2D jpg Single	› ID000086493292-0101.step
		VE_1-3-4- 5-7-9	(//assets.danfoss.com/drawings/6666/ID000086493292-
		MTZ044 MT044	0101.step)
		MTZ045 MT045	› ID000086493251-0101.pdf
		MTZ050 MT050	(//assets.danfoss.com/drawings/6670/ID000086493251-
		MTZ051 MT051	0101.pdf)
		MTZ056 MT056	› ID000086493229-0101.jpg
		MTZ057 MT057	(//assets.danfoss.com/drawings/6681/ID000086493229-
		MTZ064 MT064	0101.jpg)
		MTZ065 MT065	
		MTZ072 MT072	
		MTZ073 MT073	
		MTZ080 MT080	
		MTZ081 MT081	
		NTZ096	
	Product photo	Maneurop	› ID187434534859-0201.tif
		Reciprocating	(//assets.danfoss.com/photos/202870/ID187434534859-
		Compressors	0201.tif)
		Family	

Visuals	Document Category	Title	Download
Product details 	Photorealistic rendered drawing	VE_1-3-4- 5-7-9 MTZ044 MT044	› ID424757448110-0101.png (//assets.danfoss.com/drawings/206501/ID424757448110-0101.png)
		MTZ045 MT045-8502012	
No image available	3D model	MTZ044 MT044 MTZ045 MT045 MTZ050 MT050 MTZ051 MT051 MTZ056 MT056 MTZ057 MT057 MTZ064 MT064 MTZ065 MT065 MTZ072 MT072 MTZ073 MT073 MTZ080 MT080 - 8502017P01 - STP	› ID417562053978-0101.stp (//assets.danfoss.com/drawings/202491/ID417562053978-0101.stp)

Accessories

- Product details
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- Visuals
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- Spare Parts
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e-Solutions-
for-
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ressors/Spare-
parts-and-
accessories-
for-
Compressors/
Acoustic-
hood%2C-
Reciprocating
/p/120Z0576)
120Z0576

› Acoustic hood, Reciprocating

(/br/en/Climate-Solutions-for-cooling/Compressors/Spare-parts-and-accessories-for-
Compressors/Acoustic-hood%2C-Reciprocating/p/120Z0576)

Acoustic hood for two-cylinder compressor



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ressors/Spare-
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for-
Compressors/
Electrical-
component%
2C-Discharge-
thermostat-
kit/p/7750009
)
7750009

› **Electrical component, Discharge thermostat kit**
(/br/en/Climate-Solutions-for-cooling/Compressors/Spare-parts-and-accessories-for-
Compressors/Electrical-component%2C-Discharge-thermostat-kit/p/7750009)

Discharge thermostat kit

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accessories-
for-
Compressors/
Connector%2
C-
Gasket/p/815
6131)
8156131

› Connector, Gasket

(/br/en/Climate-Solutions-for-cooling/Compressors/Spare-parts-and-accessories-for-Compressors/Connector%2C-Gasket/p/8156131)

Gasket, 1-1/4"



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Product details

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Connector%2
C-
Gasket/p/815
6132)
8156132

› Connector, Gasket

(/br/en/Climate-Solutions-for-cooling/Compressors/Spare-parts-and-accessories-for-Compressors/Connector%2C-Gasket/p/8156132)

Gasket, 1-3/4"



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Spare Parts

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parts-and-
accessories-
for-
Compressors/
Lubricant%2C
-175PZ/p/120
Z0638)
120Z0638

› Lubricant, 175PZ

(/br/en/Climate-Solutions-for-cooling/Compressors/Spare-parts-and-accessories-for-
Compressors/Lubricant%2C-175PZ/p/120Z0638)

POE lubricant, 175PZ, 1-litre can



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Product details

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Accessories

Spare Parts

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accessories-
for-
Compressors/
Crankcase-
heater%2C-
PTC-
heater/p/120
Z0459)
120Z0459

› Crankcase heater, PTC heater

(/br/en/Climate-Solutions-for-cooling/Compressors/Spare-parts-and-accessories-for-Compressors/Crankcase-heater%2C-PTC-heater/p/120Z0459)

PTC heater 27W

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accessories-
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Compressors/
Lubricant%2C
-175PZ/p/120
Z0639)
120Z0639

› Lubricant, 175PZ

(/br/en/Climate-Solutions-for-cooling/Compressors/Spare-parts-and-accessories-for-
Compressors/Lubricant%2C-175PZ/p/120Z0639)

POE lubricant, 175PZ,2.5L CAN



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parts-and-
accessories-
for-
Compressors/
Crankcase-
heater%2C-
Belt-
heater/p/7773
107)
7773107

› Crankcase heater, Belt heater

(/br/en/Climate-Solutions-for-cooling/Compressors/Spare-parts-and-accessories-for-
Compressors/Crankcase-heater%2C-Belt-heater/p/7773107)

Belt type crankcase heater, 65 W, 230 V



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e-Solutions-
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ressors/Spare-
parts-and-
accessories-
for-
Compressors/
Connector%2
C-Sight-
glass/p/81560
19)
8156019

› **Connector, Sight glass**
(/br/en/Climate-Solutions-for-cooling/Compressors/Spare-parts-and-accessories-for-
Compressors/Connector%2C-Sight-glass/p/8156019)

Oil sight glass with gaskets (black and white)



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› Connector, Gasket

Gasket for oil sight glass (black chloroprene)



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units/Optyma
%E2%84%A2/
Optyma%E2%
84%A2/Opty
ma%E2%84%
A2%2C-OP-
HJZ050D49Q/
p/115F0391)
115F0391

›

Optyma™, OP-HJZ050D49Q

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units/Optyma%E2%84%A2/Optyma%E2%84%A2/Optyma%E2%84%A2%2C-OP-
HJZ050D49Q/p/115F0391)

Segment usage: Medium Back Pressure, Refrigerants: R404A; R407C; R452A; R134a; R513A; R448A; R449A, Compressor power supply [V]: 230/3/60



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units/Optyma
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ma%E2%84%
A2%2C-OP-
HJZ050D36Q/
p/115F0516)
115F0516

›

Optyma™, OP-HJZ050D36Q

(/br/en/Climate-Solutions-for-cooling/Condensing-
units/Optyma%E2%84%A2/Optyma%E2%84%A2/Optyma%E2%84%A2%2C-OP-
HJZ050D36Q/p/115F0516)

Segment usage: Medium Back Pressure, Refrigerants: R404A; R507A; R134a, Compressor power supply
[V]: 230/3/60



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units/Optyma
%E2%84%A2/
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84%A2/Opty
ma%E2%84%
A2%2C-OP-
HJZ050D20Q/
p/115F0098)
115F0098

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Optyma™, OP-HJZ050D20Q

(/br/en/Climate-Solutions-for-cooling/Condensing-
units/Optyma%E2%84%A2/Optyma%E2%84%A2/Optyma%E2%84%A2%2C-OP-
HJZ050D20Q/p/115F0098)

Segment usage: Medium Back Pressure, Refrigerants: R404A; R407C; R452A; R134a; R513A; R448A; R449A, Compressor power supply [V]: 230/3/60



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units/Optyma
%E2%84%A2/
Optyma%E2%
84%A2/Opty
ma%E2%84%
A2%2C-OP-
HJZ050D39Q/
p/115F0298)
115F0298

›

Optyma™, OP-HJZ050D39Q

(/br/en/Climate-Solutions-for-cooling/Condensing-
units/Optyma%E2%84%A2/Optyma%E2%84%A2/Optyma%E2%84%A2%2C-OP-
HJZ050D39Q/p/115F0298)

Segment usage: Medium Back Pressure, Refrigerants: R404A; R452A; R134a; R513A; R448A; R449A,
Compressor power supply [V]: 230/3/60

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(/br/en/Climat
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units/Optyma
%E2%84%A2-
Slim-
Pack/Optyma
%E2%84%A2-
Slim-
Pack/Optyma
%E2%84%A2-
Slim-
Pack%2C-
HPZP050D20
Q/p/115F061
6)
115F0616

› **Optyma™ Slim Pack, HPZP050D20Q**

(/br/en/Climate-Solutions-for-cooling/Condensing-units/Optyma%E2%84%A2-Slim-Pack/Optyma%E2%84%A2-Slim-Pack/Optyma%E2%84%A2-Slim-Pack%2C-HPZP050D20Q/p/115F0616)

Segment usage: Medium Back Pressure, Refrigerants: R404A; R452A; R134a; R513A; R448A; R449A,
Compressor power supply [V]: 220/3/60

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FAQs(/br/en/faq)	About us	Track delivery	Find nearest	Contact u	
Product details	Documents	Certificates	Visuals	Accessories	Spare Parts
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m/pt-br/c	

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