

**MT144-4VI****Reciprocating compressor, MT144HV4AVE**

Refrigerants: R22, Segment usage: 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>Volume</b>	150.48 Liter
<b>EAN</b>	5702428839884
<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>	MT144-4
<b>Diameter [mm]</b>	352 mm
<b>Discharge connection height [mm]</b>	125 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>	8504011e
<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>	no
<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>	1.2 L
<b>High value of nominal voltage at 50Hz [V]</b>	400 V

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## Product Detail | Reciprocating compressor, MT144HV4AVE

## 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	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
MCC	36 A
Model number	MT144HV4AVE
Motor protection	Internal overload protector
Mounting torque [Nm]	50 N-m
Network power supply [V/Ph/Hz]	380-415/3/50 460/3/60
Nominal cooling capacity 60 kBTU/h	140.61 kBTU/h
Nominal cooling capacity at 50Hz	31.5 kW
Nominal cooling capacity at 60Hz	41.2 kW
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	160P
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	Reciprocating compressor MT
Refrigerant charge [kg] [Max]	10 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

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<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 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>	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 N-m
<b>Torque power [Nm]</b>	3 N-m
<b>Total height [mm]</b>	540 mm
<b>Type</b>	MT144
<b>Viscosity [cP]</b>	32 cP
<b>Winding resistance for three-phase compressors with identical windings [Ohm]</b>	1.15 Ohm

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**Accessories**

**8156009** [🔗](#)
**Connector, Gasket**

Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black and white


**8156132** [🔗](#)
**Connector, Gasket**

Gasket, 1-3/4"


**8156131** [🔗](#)
**Connector, Gasket**

Gasket, 1-1/4"


**8156135** [🔗](#)
**Electrical component, Terminal box**

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


**8156007** [🔗](#)
**Mounting, Compressor kit**

Mounting kit 4 cyl high

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**Product Detail | Reciprocating compressor, MT144HV4AVE****Accessories****8153004** [🔗](#)**Connector, Solder sleeve**

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

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

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

**120Z0577** [🔗](#)**Acoustic hood, Reciprocating**

Acoustic hood for four-cylinder compressor

**8173230** [🔗](#)**Electrical component, T block**

T block connector 52 x 57 mm

**Spare Parts****7705007** [🔗](#)**Electrical component, MCI**

Electronic soft start kit, MCI 25 C

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

Belt type crankcase heater, 75 W, 400 V

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

Belt type crankcase heater, 75 W, 460 V

**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)

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**Spare Parts**

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**7754001** [🔗](#)**Lubricant, 160P**

Mineral oil, 160P, 2-litre can

**7754002** [🔗](#)**Lubricant, 160P**

Mineral oil, 160P, 5-litre can

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

Oil sight glass with gaskets (black and white)

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

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

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

PTC heater 27W

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

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

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