

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

Refrigerants: R22, Segment usage: Refrigeration MT, Compressor power supply [V]: 400/3/50 460/3/60, Packing format: Single pack

**PRODUCT DETAILS**

<b>Gross weight</b>	72.5 Kg
<b>Net weight</b>	69 Kg
<b>Volume</b>	100.75 Liter
<b>EAN</b>	5702428839884
<b>Approval</b>	CE UL UKCA
<b>Brand technique</b>	Reciprocating compressor
<b>Capacity control</b>	Fixed speed
<b>China RoHS compliance</b>	Out of scope
<b>Colour</b>	Blue
<b>Compressor power supply [V]</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>EU RoHS compliance</b>	Yes with exemptions
<b>EU RoHS exemption clause</b>	6(a), 6(a)-I, 7(a), 7(c)-I, 8(b), 9(b)
<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>Frequency [Hz]</b>	50/60
<b>Gauge port HP</b>	None
<b>Gauge port LP</b>	Schrader
<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 TS Max</b>	150 °C
<b>High Side TS Min</b>	-35 °C

## Product Detail | Reciprocating compressor, MT144HV4AVE

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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	27.8 bar
Max pressure (PS) - low side	18.4 bar
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
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	MT
REACH Candidate List substances	Lead (CAS no. 7439-92-1)
Refrigerant charge [kg] [Max]	10 kg
Refrigerants	R22
Rotational speed at 50Hz [rpm]	2900 rpm
Rotational speed at 60Hz [rpm]	3500 rpm
SCIP dossier no.	6971587b-85b6-4808-886d-274e8a9998d4

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## Product Detail | Reciprocating compressor, MT144HV4AVE

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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 [cm <sup>3</sup> ]	241.87 cm <sup>3</sup>
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	MT144
UK RoHS compliance	Out of scope
Viscosity [cP]	32 cP
Winding resistance for three-phase compressors with identical windings [Ohm]	1.15 Ohm
Proposition 65	WARNING: Cancer and Reproductive Harm <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>

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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"

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**Product Detail | Reciprocating compressor, MT144HV4AVE****Accessories****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 for four-cylinder compressor and MS, including 4 grommets, 4 bolts

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

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

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

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

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

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

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**Product Detail | Reciprocating compressor, MT144HV4AVE****Spare Parts****8156145** [🔗](#)**Connector, GASKET**

Gasket for oil sight glass (black chloroprene)

**7754001** [🔗](#)**Lubricant, 160P**

Mineral oil, 160P, 2-litre can

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

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

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

PTC heater 27W, CE mark, UL

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

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

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