# Mbsm.pro, Compressor, inverter, VTZ121AGNR1B, 60000 btu, air conditioning

Category: air conditioner, compressor written by Jamila | 3 March 2023



## Description



# Product details

### **Approval standard**

Brand technique
Capacity control
Colour
Compressor power supply [V/Ph/Hz]
Configuration code
Connection type
Cylinder
Description

CE certified
UL certified when connected to
frequency converter
Reciprocating compressor
Inverter
Blue
380-480/3/50-60
Single
Rotolock
2

VTZ121-G

```
Diameter [mm]
                                            288 mm
Discharge connection height [mm]
                                            74 mm
Discharge connection mounting torque [Nm] 90 N-m
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 sleeve pipe size [in] 3/4 in
Drawing number
                                            8502016a
Economizer
                                            No
Factory HP [bar]
                                            25 bar
                                            25 bar
Factory LP [bar]
Fitting remark
                                            (shipped with rotolock version only)
Fitting sleeve
                                            ODF
Fitting standard
                                            Rotolock
                                            30 - 85
Frequency [Hz]
Gauge port HP
                                            None
Gauge port LP
                                            Schrader
Generation code
Glass mounting
                                            Threaded
                                            50 N-m
Glass torque [Nm]
                                            15 N-m
GP LP torque [Nm]
High side max pressure (Ps)
                                            29.4 bar
                                            150 °C
High Side TS Max
                                            -35 °C
High Side TS Min
High Side Volume
                                            0.6 L
High value of nominal voltage at 50Hz [V] 480 V
High value of nominal voltage at 60Hz [V]
                                            480 V
High value of voltage range at 50Hz [V]
                                            480 V
High value of voltage range at 60Hz [V]
                                            480 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
                                            16.5 L
Low value of nominal voltage at 50Hz [V]
                                            380 V
Low value of nominal voltage at 60Hz [V]
                                            380 V
Low value of voltage range at 50Hz [V]
                                            380 V
Low value of voltage range at 60Hz [V]
                                            380 V
LRA
                                            139 A
MMT
                                                  29 A
Model number
                                                  VTZ121AGNR1B
                                                  Motor protection by frequency
Motor protection
                                                  converter
Mounting torque [Nm]
                                                  15 N-m
Nominal cooling capacity at 50Hz
                                                  6.7 kW
Nominal cooling capacity at 60Hz
                                                  14.4 kW
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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	160PZ
Packaging height [mm]	455 mm
Packaging length [mm]	395 mm
Packaging width [mm]	365 mm
Packing format	Single pack
Packing quantity	1
Phase	3
Power connections	Screw 4.8 mm
Tonor connections	R134a
Defining	R404A
Refrigerant	R407C
	R507A
Refrigerant charge [kg] [Max]	5 kg
Relief valve	30 bar/8 bar
RLA	23.2 A
Rotational speed at 50Hz [rpm]	0 rpm
Rotational speed at 60Hz [rpm]	0 rpm
	Air conditioning
Segment usage	Refrigeration LT
	Refrigeration MT
Shipped fittings	Suction and discharge solder sleeves, rotolock nuts and
Shipped littings	gaskets
Shipped instructions	Installation instructions
	Mounting kit with grommets,
Shipped mounting	bolts, nuts, sleeves and
	washers
Shipped oil	Initial oil charge
Suction connection height [mm]	165 mm
Suction connection mounting torque [Nm]	110 N-m
Suction connection pipe size [in]	1 1/8 in
Suction connection rotolock size [in]	1 3/4 in
Suction connection size [in]	1 3/4 in
Suction connection sleeve pipe size [in]	1 1/8 in
Swept volume [cm3]	120.94 cm3
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]	413 mm
Туре	VTZ
Type designation	Compressor
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Viscosity [cP] 32 cP Winding resistance for three-phase compressors 0.59 Ohm with identical windings [Ohm] CE certified UL certified when connected to Approval standard frequency converter Brand technique Reciprocating compressor Capacity control Inverter Blue Colour Compressor power supply [V/Ph/Hz] 380-480/3/50-60 Configuration code Single Connection type Rotolock Cvlinder **Description** VTZ121-G Diameter [mm] 288 mm Discharge connection height [mm] 74 mm Discharge connection mounting torque [Nm] 90 N-m 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 sleeve pipe size [in] 3/4 in Drawing number 8502016a Economizer No Factory HP [bar] 25 bar 25 bar Factory LP [bar] (shipped with rotolock version Fitting remark only) Fitting sleeve ODF Fitting standard Rotolock 30 - 85Frequency [Hz] Gauge port HP None Gauge port LP Schrader Generation code Glass mounting Threaded 50 N-m Glass torque [Nm] GP LP torque [Nm] 15 N-m 29.4 bar High side max pressure (Ps) 150 °C High Side TS Max -35 °C High Side TS Min High Side Volume 0.6 L High value of nominal voltage at 50Hz [V] 480 V High value of nominal voltage at 60Hz [V] 480 V High value of voltage range at 50Hz [V] 480 V High value of voltage range at 60Hz [V] 480 V IP protection class IP54 (with cable gland) Low side max pressure (Ps) 22.6 bar 50 °C Low Side TS Max

Low Side TS Min	-35 °C
Low Side Volume	16.5 L
Low value of nominal voltage at 50Hz [V]	380 V
Low value of nominal voltage at 60Hz [V]	380 V
Low value of voltage range at 50Hz [V]	380 V
Low value of voltage range at 60Hz [V]	380 V
LRA	139 A
MMT	29 A
Model number	VTZ121AGNR1B
Motor protection	Motor protection by frequency converter
Mounting torque [Nm]	15 N-m
Nominal cooling capacity at 50Hz	6.7 kW
Nominal cooling capacity at 60Hz	14.4 kW
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	160PZ
Packaging height [mm]	455 mm
Packaging length [mm]	395 mm
Packaging width [mm]	365 mm
Packing format	Single pack
Packing quantity	1
Phase	3
Power connections	Screw 4.8 mm
	R134a R404A
Refrigerant	R407C
	R507A
Refrigerant charge [kg] [Max]	5 kg
Relief valve	30 bar/8 bar
RLA	23.2 A
Rotational speed at 50Hz [rpm]	0 rpm
Rotational speed at 60Hz [rpm]	0 rpm
Segment usage	Air conditioning Refrigeration LT
	Refrigeration MT
Shipped fittings	Suction and discharge solder sleeves, rotolock nuts and gaskets
Shipped instructions	Installation instructions
• •	Mounting kit with grommets,
Shipped mounting	bolts, nuts, sleeves and washers
Shipped oil	Initial oil charge
Suction connection height [mm]	165 mm
Suction connection mounting torque [Nm]	110 N-m

Suction connection pipe size [in] 1 1/8 in
Suction connection rotolock size [in] 1 3/4 in
Suction connection size [in] 1 3/4 in
Suction connection sleeve pipe size [in] 1 1/8 in
Swept volume [cm3] 120.94 cm3

Technology Reciprocating

Test dif [bar] [Max] 30 bar
Test HP [bar] [Max] 25 bar
Test LP [bar] [Max] 25 bar
Torque earth [Nm] 3 N-m
Torque power [Nm] 3 N-m
Total height [mm] 413 mm
Type VTZ

Type designation Compressor Viscosity [cP] 32 cP

Winding resistance for three-phase compressors with identical windings [Ohm] 0.59 Ohm

Refrigerant: R134a; R404A; R407C; R507A, Segment usage: Air

conditioning; Refrigeration LT; Refrigeration MT, Compressor power supply

[V/Ph/Hz]: 380-480/3/50-60

# Product details

Ret weight 43.5 kg
Net weight 40 kg
EAN 5702428666145
Gross weight 43.5 kg
Net weight 40 kg

**EAN** 5702428666145

CE certified

Approval standard UL certified when connected to

frequency converter

Brand technique Reciprocating compressor

Capacity control Inverter Colour Blue

Compressor power supply [V/Ph/Hz] 380-480/3/50-60

Configuration codeSingleConnection typeRotolock

Cylinder 2

Description VTZ121-G
Diameter [mm] 288 mm
Discharge connection height [mm] 74 mm
Discharge connection mounting torque [Nm] 90 N-m
Discharge connection pipe size [in] 3/4 in
Discharge connection rotolock size [in] 1 1/4 in

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Discharge connection size [in]
                                           1 1/4 in
Discharge connection sleeve pipe size [in] 3/4 in
Drawing number
                                           8502016a
Economizer
                                           No
                                           25 har
Factory HP [bar]
Factory LP [bar]
                                           25 bar
Fitting remark
                                            (shipped with rotolock version only)
Fitting sleeve
                                           0DF
Fitting standard
                                           Rotolock
                                           30 - 85
Frequency [Hz]
Gauge port HP
                                           None
Gauge port LP
                                           Schrader
Generation code
Glass mounting
                                           Threaded
                                           50 N-m
Glass torque [Nm]
GP LP torque [Nm]
                                           15 N-m
                                           29.4 bar
High side max pressure (Ps)
High Side TS Max
                                           150 °C
High Side TS Min
                                           -35 °C
High Side Volume
                                           0.6 L
High value of nominal voltage at 50Hz [V] 480 V
High value of nominal voltage at 60Hz [V] 480 V
High value of voltage range at 50Hz [V]
                                           480 V
High value of voltage range at 60Hz [V]
                                           480 V
IP protection class
                                           IP54 (with cable gland)
                                           22.6 bar
Low side max pressure (Ps)
                                           50 °C
Low Side TS Max
Low Side TS Min
                                           -35 °C
Low Side Volume
                                           16.5 L
Low value of nominal voltage at 50Hz [V]
                                           380 V
Low value of nominal voltage at 60Hz [V]
                                           380 V
Low value of voltage range at 50Hz [V]
                                            380 V
Low value of voltage range at 60Hz [V]
                                           380 V
LRA
                                           139 A
MMT
                                                 29 A
Model number
                                                 VTZ121AGNR1B
                                                 Motor protection by frequency
Motor protection
                                                 converter
Mounting torque [Nm]
                                                 15 N-m
Nominal cooling capacity at 50Hz
                                                 6.7 kW
Nominal cooling capacity at 60Hz
                                                 14.4 kW
Number of starts per hour [Max]
                                                 12
Oil charge [L]
                                                 1.8 L
Oil equalization
                                                 3/8" flare SAE
                                                 30 N-m
Oil equalization torque [Nm]
Oil reference
                                                 160PZ
```

Packaging height [mm]	455 mm
Packaging length [mm]	395 mm
Packaging width [mm]	365 mm
Packing format	Single pack
Packing quantity	1
Phase	3
Power connections	Screw 4.8 mm
	R134a
Refrigerant	R404A R407C
	R507A
Refrigerant charge [kg] [Max]	5 kg
Relief valve	30 bar/8 bar
RLA	23.2 A
Rotational speed at 50Hz [rpm]	0 rpm
Rotational speed at 60Hz [rpm]	0 rpm
	Air conditioning
Segment usage	Refrigeration LT
	Refrigeration MT Suction and discharge solder
Shipped fittings	sleeves, rotolock nuts and
оперроп 1 = 1 = 1 = 1 = 1	gaskets
Shipped instructions	Installation instructions
	Mounting kit with grommets,
Shipped mounting	bolts, nuts, sleeves and washers
Shipped oil	Initial oil charge
Suction connection height [mm]	165 mm
Suction connection mounting torque [Nm]	110 N-m
Suction connection pipe size [in]	1 1/8 in
Suction connection rotolock size [in]	1 3/4 in
Suction connection size [in]	1 3/4 in
Suction connection sleeve pipe size [in]	1 1/8 in
Swept volume [cm3]	120.94 cm3
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]	413 mm
Туре	VTZ
Type designation	Compressor
Viscosity [cP]	32 cP
Winding resistance for three-phase compressors with identical windings [Ohm]	0.59 Ohm

UL certified when connected to Approval standard frequency converter Brand technique Reciprocating compressor Capacity control Inverter Colour Blue Compressor power supply [V/Ph/Hz] 380-480/3/50-60 Configuration code Single Connection type Rotolock Cvlinder **Description** VTZ121-G Diameter [mm] 288 mm 74 mm Discharge connection height [mm] 90 N-m Discharge connection mounting 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 sleeve pipe size [in] 3/4 in Drawing number 8502016a **Economizer** No Factory HP [bar] 25 bar 25 bar Factory LP [bar] (shipped with rotolock version Fitting remark only) Fitting sleeve 0DF Fitting standard Rotolock Frequency [Hz] 30 - 85Gauge port HP None Gauge port LP Schrader Generation code Glass mounting Threaded 50 N-m Glass torque [Nm] GP LP torque [Nm] 15 N-m 29.4 bar High side max pressure (Ps) High Side TS Max 150 °C High Side TS Min -35 °C High Side Volume 0.6 L High value of nominal voltage at 50Hz [V] 480 V High value of nominal voltage at 60Hz [V] 480 V High value of voltage range at 50Hz [V] 480 V High value of voltage range at 60Hz [V] 480 V IP protection class IP54 (with cable gland) Low side max pressure (Ps) 22.6 bar Low Side TS Max 50 °C -35 °C Low Side TS Min Low Side Volume 16.5 L

CE certified

Low value of nominal voltage at 50Hz [V] Low value of nominal voltage at 60Hz [V] Low value of voltage range at 50Hz [V] Low value of voltage range at 60Hz [V] LRA MMT Model number	380 V 380 V 380 V 380 V 139 A 29 A VTZ121AGNR1B Motor protection by frequency
Motor protection	converter
Mounting torque [Nm] Nominal cooling capacity at 50Hz Nominal cooling capacity at 60Hz Number of starts per hour [Max] Oil charge [L] Oil equalization Oil equalization torque [Nm] Oil reference Packaging height [mm] Packaging length [mm] Packaging width [mm] Packing format Packing quantity Phase	15 N-m 6.7 kW 14.4 kW 12 1.8 L 3/8" flare SAE 30 N-m 160PZ 455 mm 395 mm Single pack 1
Power connections	Screw 4.8 mm
Refrigerant	R134a R404A R407C R507A
Refrigerant charge [kg] [Max]	5 kg
Relief valve	30 bar/8 bar
RLA	23.2 A
Rotational speed at 50Hz [rpm]	0 rpm
Rotational speed at 60Hz [rpm] Segment usage	<pre>0 rpm Air conditioning Refrigeration LT Refrigeration MT</pre>
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]	165 mm
Suction connection mounting torque [Nm]	110 N-m
Suction connection pipe size [in]	1 1/0 :
Suction connection rotolock size [in]	1 1/8 in 1 3/4 in

Suction connection size [in] 1 3/4 in Suction connection sleeve pipe size [in] 1 1/8 in Swept volume [cm3] 120.94 cm3 **Technology** Reciprocating 30 bar Test dif [bar] [Max] 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] 413 mm Type VTZ Type designation Compressor Viscosity [cP] 32 cP

Winding resistance for three-phase compressors

with identical windings [0hm]

0.59 Ohm