



Scheda Tecnica Compressore

Compressor Technical Datasheet

Document Nr.

UT_MINI JUNIOR 2,2-08-90 M_2021-01_EN

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Customer Care

Compressor Model: MINI JUNIOR 2,2-08-90 M

GENERAL DATA

| | | | | |
|--------------------------------|--------|------------|---|----------|
| Nominal Input Power | kW | 2,2 | | |
| | HP | 3,0 | | |
| Drive Type | - | Direct 1:1 | | |
| Entire Compressor IP Grade | - | IP 20 | | |
| Working Pressure | bar | 8 | | |
| | psi | 116 | | |
| Min. Working Pressure | bar | 6 | | |
| | psi | 87 | | |
| Ambient Working Temperature | °C | min. +2 | - | max. +45 |
| Main Voltage Supply value | V - ph | 230 ±10% | - | n.ph 1~ |
| Auxiliary Voltage Supply value | V - ph | 230 ±5% | - | n.ph 1~ |
| Supply Frequency | Hz | 50 | | |

WORKING DATA

| | | | | |
|--|------------------------|--------------|---|----------|
| Air flow (acc. to ISO 1217 Annex C and Annex E for variable speed compressors) | l/min | 292 | | |
| | m ³ /min | 0,29 | | |
| | c.f.m. | 10,3 | | |
| Total Absorbed Power at full load (+ dryer) | kW | 2,7 | + | - |
| Total Absorbed Power at idle | kW | - | | |
| Starting current / Rated current / Dryer current | A | 35 | / | 12,2 / - |
| Specific power absorption | kW/m ³ /min | 9,24 | | |
| Max final air temperature above ambient | °C | - | | |
| Removed Heat | kJ/h | 6336 | | |
| Sound Pressure (acc. to Pneuop/Cagi PN2CPTC2) | dB(A) | 65 ± 3 dB(A) | | |

ELECTRIC MOTOR

| | | | | |
|--|-------------------|-------|---|---------|
| Nominal Motor Power | kW | 2,2 | | |
| Size and Construction Form | - | 90 | - | IM B3 |
| Synchronous Speed | min ⁻¹ | 3000 | | |
| Efficiency class and relative efficiency value | - | IE3 | - | 0,859 |
| IP degree of protection and insulation class of the electric motor | - | IP 55 | - | class F |
| Service factor | - | 1 | | |

VENTILATOR

| | | | | |
|---|-------------------|--------|---|---------|
| Type and number of installed fans | - | Radial | - | n. 1 |
| Fan flow rate | m ³ /h | 600 | | |
| Nominal Power | kW | 0,065 | | |
| IP degree of protection and insulation class of the fan | - | IP44 | - | class F |

LUBRICANT

| | | | | |
|----------------|-------------------|------------------|--|--|
| Type | - | RotarEcoFluid 46 | | |
| Oil quantity | l | 2,3 | | |
| Oil carry over | mg/m ³ | 2 - 4 | | |

SAFETY DEVICES

| | | | | |
|--|-----|----------------|--|--|
| Max oil working temperature | °C | 110 | | |
| Pre-alarm oil working temperature | °C | - | | |
| Safety valve setting | bar | 14 | | |
| Protection type from electric motor overload | - | PTC thermistor | | |

DIMENSIONS

| | | | | |
|---------------------|----|--------|--|--|
| Length | mm | 725 | | |
| Width | mm | 458 | | |
| Height | mm | 1058 | | |
| Weight | kg | 105 | | |
| Air outlet size | G | 1/2" | | |
| Drawing code | - | t.b.d. | | |
| Wiring diagram code | - | t.b.d. | | |

Specific Power variation depending on pressure values

 Compressor Model: **MINI JUNIOR 2,2-08-90 M**

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| Pressure | | | 5 bar | |
|----------|-----------------------------------|----------|------------------------|--|
| [l/min] | Air flow [m ³ /min] | [c.f.m.] | Absorbed power [kW] | Specific power [kW/m ³ /min] |
| 295 | 0,30 | 10,4 | 2,2 | 7,34 |

| Pressure | | | 6 bar | |
|----------|-----------------------------------|----------|------------------------|--|
| [l/min] | Air flow [m ³ /min] | [c.f.m.] | Absorbed power [kW] | Specific power [kW/m ³ /min] |
| 294 | 0,29 | 10,4 | 2,3 | 7,85 |

| Pressure | | | 7 bar | |
|----------|-----------------------------------|----------|------------------------|--|
| [l/min] | Air flow [m ³ /min] | [c.f.m.] | Absorbed power [kW] | Specific power [kW/m ³ /min] |
| 293 | 0,29 | 10,4 | 2,5 | 8,54 |

| Pressure | | | 8 bar | |
|----------|-----------------------------------|----------|------------------------|--|
| [l/min] | Air flow [m ³ /min] | [c.f.m.] | Absorbed power [kW] | Specific power [kW/m ³ /min] |
| - | - | - | - | - |

| Pressure | | | 9 bar | |
|----------|-----------------------------------|----------|------------------------|--|
| [l/min] | Air flow [m ³ /min] | [c.f.m.] | Absorbed power [kW] | Specific power [kW/m ³ /min] |
| - | - | - | - | - |

| Pressure | | | 10 bar | |
|----------|-----------------------------------|----------|------------------------|--|
| [l/min] | Air flow [m ³ /min] | [c.f.m.] | Absorbed power [kW] | Specific power [kW/m ³ /min] |
| - | - | - | - | - |

| Pressure | | | 11 bar | |
|----------|-----------------------------------|----------|------------------------|--|
| [l/min] | Air flow [m ³ /min] | [c.f.m.] | Absorbed power [kW] | Specific power [kW/m ³ /min] |
| - | - | - | - | - |

| Pressure | | | 12 bar | |
|----------|-----------------------------------|----------|------------------------|--|
| [l/min] | Air flow [m ³ /min] | [c.f.m.] | Absorbed power [kW] | Specific power [kW/m ³ /min] |
| - | - | - | - | - |

Compressor performance at speed modulation

(valid for variable speed compressors only)

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| | | Pressione target | | | - bar | | |
|----|---------|------------------|-----------------------|----------|-------------------------------------|------------------------|--|
| ID | % Speed | Air flow | | | Motor speed [min ⁻¹] | Absorbed power [kW] | Specific power [kW/m ³ /min] |
| | | [l/min] | [m ³ /min] | [c.f.m.] | | | |
| 1 | 100% | - | - | - | - | - | - |
| 2 | 70% | - | - | - | - | - | - |
| 3 | 40% | - | - | - | - | - | - |

