



# Scheda Tecnica Compressore Compressor Technical Datasheet

Document Nr.

UT\_MINI JUNIOR 2,2-10-90\_2021-01\_EN

Date Creation: 2021-01

Date Rev.: -

Filled by:

R&D

Checked by:

Customer Care

**Compressor Model: MINI JUNIOR 2,2-10-90**

## 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    | 10         |   |          |
|                                | psi    | 145        |   |          |
| Min. Working Pressure          | bar    | 6          |   |          |
|                                | psi    | 87         |   |          |
| Ambient Working Temperature    | °C     | min. +2    | - | max. +45 |
| Main Voltage Supply value      | V - ph | 400 ±10%   | - | n.ph 3~  |
| 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                  | 261          |   |         |
|  | m <sup>3</sup> /min    | 0,26         |   |         |
|  | c.f.m.                 | 9,2          |   |         |
| Total Absorbed Power at full load (+ dryer)                                    | kW                     | 3,1          | + | -       |
| Total Absorbed Power at idle   | kW                     | -            |   |         |
| Starting current / Rated current / Dryer current                               | A                      | 35           | / | 5,2 / - |
| Specific power absorption  | kW/m <sup>3</sup> /min | 11,89        |   |         |
| 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 <sup>-1</sup> | 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   | -                 | 1,1   |   |         |

## VENTILATOR

|   |                   |        |   |         |
|---|-------------------|--------|---|---------|
| Type and number of installed fans                       | -                 | Radial | - | n. 1    |
| Fan flow rate   | m <sup>3</sup> /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 <sup>3</sup> | 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 | -  | #305463010 |  |  |

### Specific Power variation depending on pressure values

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| Pressure |                                   |          | 5 bar                  |  |
|----------|-----------------------------------|----------|------------------------|--|
| [l/min]  | Air flow<br>[m <sup>3</sup> /min] | [c.f.m.] | Absorbed power<br>[kW] | Specific power<br>[kW/m <sup>3</sup> /min] |
| 266      | 0,27                              | 9,4      | 2,2                    | 8,30                                       |

| Pressure |                                   |          | 6 bar                  |  |
|----------|-----------------------------------|----------|------------------------|--|
| [l/min]  | Air flow<br>[m <sup>3</sup> /min] | [c.f.m.] | Absorbed power<br>[kW] | Specific power<br>[kW/m <sup>3</sup> /min] |
| 265      | 0,26                              | 9,3      | 2,3                    | 8,88                                       |

| Pressure |                                   |          | 7 bar                  |  |
|----------|-----------------------------------|----------|------------------------|--|
| [l/min]  | Air flow<br>[m <sup>3</sup> /min] | [c.f.m.] | Absorbed power<br>[kW] | Specific power<br>[kW/m <sup>3</sup> /min] |
| 264      | 0,26                              | 9,3      | 2,5                    | 9,66                                       |

| Pressure |                                   |          | 8 bar                  |  |
|----------|-----------------------------------|----------|------------------------|--|
| [l/min]  | Air flow<br>[m <sup>3</sup> /min] | [c.f.m.] | Absorbed power<br>[kW] | Specific power<br>[kW/m <sup>3</sup> /min] |
| 263      | 0,26                              | 9,3      | 2,7                    | 10,45                                      |

| Pressure |                                   |          | 9 bar                  |  |
|----------|-----------------------------------|----------|------------------------|--|
| [l/min]  | Air flow<br>[m <sup>3</sup> /min] | [c.f.m.] | Absorbed power<br>[kW] | Specific power<br>[kW/m <sup>3</sup> /min] |
| 262      | 0,26                              | 9,2      | 2,9                    | 11,17                                      |

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

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

| Pressure |                                   |          | 12 bar                 |  |
|----------|-----------------------------------|----------|------------------------|--|
| [l/min]  | Air flow<br>[m <sup>3</sup> /min] | [c.f.m.] | Absorbed power<br>[kW] | Specific power<br>[kW/m <sup>3</sup> /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<br>[min <sup>-1</sup> ] | Absorbed power<br>[kW] | Specific power<br>[kW/m <sup>3</sup> /min] |
|    |         | [l/min]          | [m <sup>3</sup> /min] | [c.f.m.] |                                     |                        |  |
| 1  | 100%    | -                | -                     | -        | -                                   | -                      | -  |
| 2  | 70%     | -                | -                     | -        | -                                   | -                      | -  |
| 3  | 40%     | -                | -                     | -        | -                                   | -                      | -  |

