Operating instructions and spare parts list

OptiAir CA04
Pneumatic unit

Translation of the original operating instructions
Documentation OptiAir CA04 Pneumatic unit

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General safety regulations

This chapter sets out the fundamental safety regulations that must be followed by the user and third parties using the OptiAir CA04 Pneumatic unit.

These safety regulations must be read and understood before the OptiAir CA04 Pneumatic unit is used.

Safety symbols (pictograms)

The following warnings with their meanings can be found in the Gema operating instructions. The general safety precautions must also be followed as well as the regulations in the operating instructions.

**DANGER!**
danger due to live electricity or moving parts. Possible consequences:
Death or serious injury

**WARNING!**
Improper use of the equipment could damage the machine or cause it to malfunction. Possible consequences: minor injuries or damage to equipment

**INFORMATION!**
useful tips and other information

Conformity of use

1. The OptiAir CA04 Pneumatic unit is built to the latest specification and conforms to the recognized technical safety regulations and is designed for the normal application of powder coating.

2. Any other use is considered as non-conform. The manufacturer is not responsible for any damage resulting from this - the risk for this is assumed by the user alone! If the OptiAir CA04 Pneumatic unit is to be used for other purposes or other substances outside of our guidelines then Gema Switzerland GmbH should be consulted.

3. Observance of the operating, service and maintenance instructions specified by the manufacturer is also part of the conformity
of use. The OptiAir CA04 Pneumatic unit should only be used, maintained and started up by trained personnel, who are informed about and are familiar with the possible hazards involved.

4. Start-up (i.e. the execution of a particular operation) is forbidden until it has been established that the OptiAir CA04 Pneumatic unit has been set up and wired according to the guidelines for machinery (98/37 EG). EN 60204-1 (machine safety) must also be observed.

5. Unauthorized modifications to powder spraying equipment exempts the manufacturer from any liability from resulting damage.

6. The relevant accident prevention regulations, as well as other generally recognized safety regulations, occupational health and structural regulations are to be observed.

7. Furthermore the country-specific safety regulations must be observed.

<table>
<thead>
<tr>
<th>Explosion protection</th>
<th>Protection type</th>
<th>Temperature class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ex II (2) D</td>
<td>IP54</td>
<td>T6 (zone 21)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>T4 (zone 22)</td>
</tr>
</tbody>
</table>

Product specific security measures

OptiAir CA04 Pneumatic unit

The OptiAir CA04 Pneumatic unit is constituent part of the system and is thus integrated into the safety system of the overall system.

For the use outside of this security concept, appropriate measures must be taken.

Note:
For further information see the more detailed Gema safety regulations!
About this manual

General information

This operating manual contains all the important information which you require for the working with the OptiAir CA04 Pneumatic unit. It will safely guide you through the start-up process and give you references and tips for the optimal use of your new powder coating system.

Information about the function mode of the individual system components - booth, gun control unit, manual gun or powder injector - should be referenced to their enclosed corresponding documents.
Function description

Field of application

The OptiAir CA04 Pneumatic unit distributes the compressed air to the gun control units.

Structure

Overview

OptiAir CA04 Pneumatic unit - Structure
Technical data

OptiAir CA04 Pneumatic unit

**Pneumatic data**

<table>
<thead>
<tr>
<th>OptiAir CA04 Pneumatic unit</th>
<th>5,5 - 6 bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input pressure</td>
<td></td>
</tr>
<tr>
<td>Compressed air consumption</td>
<td>dependent on the number of connected gun control units</td>
</tr>
<tr>
<td>Water vapor content</td>
<td>max. 1.3 g/m³</td>
</tr>
<tr>
<td>Oil content</td>
<td>max. 0.1 mg/m³</td>
</tr>
</tbody>
</table>

**Dimensions**

<table>
<thead>
<tr>
<th>OptiAir CA04 Pneumatic unit</th>
<th>600 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td></td>
</tr>
<tr>
<td>Depth</td>
<td>386 mm</td>
</tr>
<tr>
<td>Height</td>
<td>178 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>8,3 kg</td>
</tr>
</tbody>
</table>
Spare parts list

Ordering spare parts

When ordering spare parts for powder coating equipment, please indicate the following specifications:

- Type and serial number of your powder coating equipment
- Order number, quantity and description of each spare part

Example:

- **Type** OptiAir CA04 Pneumatic unit
  **Serial number** 1234 5678
- **Order no.** 203 386, 1 piece, Clamp - Ø 18/15 mm

When ordering cable or hose material, the required length must also be given. The spare part numbers of this yard/meter ware is always marked with an *.

The wear parts are always marked with a #.

All dimensions of plastic hoses are specified with the external and internal diameter:

Example:

Ø 8/6 mm, 8 mm outside diameter (o/d) / 6 mm inside diameter (i/d)

**WARNING!**

Only original Gema spare parts should be used, because the explosion protection will also be preserved that way. The use of spare parts from other manufacturers will invalidate the Gema guarantee conditions!
## OptiAir CA04 Pneumatic unit - spare parts list

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Pneumatics console - complete</td>
<td></td>
<td>1002 311</td>
</tr>
<tr>
<td>2</td>
<td>Compressed air distributor AS03</td>
<td></td>
<td>1002 572</td>
</tr>
<tr>
<td>3</td>
<td>Front panel CA04</td>
<td></td>
<td>1002 719</td>
</tr>
<tr>
<td>4</td>
<td>Shake proof washer - Type A, M6 mm</td>
<td></td>
<td>200 450</td>
</tr>
<tr>
<td>5</td>
<td>Washer - Ø 6.4/12.5x1.6 mm</td>
<td></td>
<td>200 476</td>
</tr>
<tr>
<td>6</td>
<td>Milled nut - M6 mm</td>
<td></td>
<td>200 433</td>
</tr>
<tr>
<td>7</td>
<td>Hexagon nut - M6 mm</td>
<td></td>
<td>200 417</td>
</tr>
<tr>
<td>8</td>
<td>Shakeproof Allen screw - M6x16 mm</td>
<td></td>
<td>261 823</td>
</tr>
<tr>
<td>9</td>
<td>Shakeproof Allen screw - M6x12 mm</td>
<td></td>
<td>1002 121</td>
</tr>
<tr>
<td>10</td>
<td>Hexagon screw - M6x30 mm</td>
<td></td>
<td>215 279</td>
</tr>
<tr>
<td>11</td>
<td>Plug cap - 1/2&quot;a</td>
<td></td>
<td>259 306</td>
</tr>
<tr>
<td>12</td>
<td>Hose connector - Ø 17 mm-1/2&quot;a</td>
<td></td>
<td>223 069</td>
</tr>
<tr>
<td>13</td>
<td>Elbow joint - 1/2&quot;a-1/2&quot;i</td>
<td></td>
<td>223 166</td>
</tr>
<tr>
<td>14</td>
<td>Adjusting elbow - Ø 8/8 mm</td>
<td></td>
<td>1001 031</td>
</tr>
<tr>
<td>15</td>
<td>Divided double nipple - 1/2&quot;a-1/2&quot;a</td>
<td></td>
<td>243 582</td>
</tr>
<tr>
<td>16</td>
<td>Double nipple - 1/2&quot;a-1/2&quot;a</td>
<td></td>
<td>243 540</td>
</tr>
<tr>
<td>17</td>
<td>Connector nipple - 1/4&quot;a-Ø 8 mm</td>
<td></td>
<td>259 322</td>
</tr>
<tr>
<td>18</td>
<td>Adapter sleeve - 1/4&quot;i-1/4&quot;i</td>
<td></td>
<td>256 269</td>
</tr>
<tr>
<td>19</td>
<td>Adapter sleeve - 1/2&quot;i-1/2&quot;i</td>
<td></td>
<td>202 622</td>
</tr>
<tr>
<td>20</td>
<td>Plug - Ø 8 mm</td>
<td></td>
<td>238 023</td>
</tr>
<tr>
<td>21</td>
<td>Solenoid valve - 1/2&quot; NW13.5 mm, 230 VAC</td>
<td></td>
<td>259 500</td>
</tr>
<tr>
<td></td>
<td>Solenoid valve - 1/2&quot; NW13.5 mm, 24 VDC</td>
<td></td>
<td>259 195</td>
</tr>
<tr>
<td>22</td>
<td>Pressure gauge - G1/4&quot;, 1-10 bar</td>
<td></td>
<td>1001 764</td>
</tr>
</tbody>
</table>