INDUSTRIAL
SCREW COMPRESSORS
LOW PRESSURE
LP 55
LP 75
LP 90
LP 110
LP 150
LP 185

COMPRESSORS FOR BREATHING AIR AND TECHNICAL GASES

2012 EDITION
Aerotecnia Coltri®, besides the production of high pressure compressors, manufactures, in its factory located in San Martino della Battaglia (Brescia), a range of low pressure industrial screw compressors.

Thanks to the constant monitoring of the products’ quality standards, Aerotecnia Coltri® obtained the yearned for UNI EN ISO 9001:2000 and IQNet quality standards on all the products manufactured.

All the components of the pumping units are entirely designed and manufactured in Aerotecnia Coltri® factories and all compressors are completely assembled within the company.

The capacity to perceive the advanced technology in the mechanic industry led Aerotecnia Coltri® to improve the operational quality and the precision of the equipment used for numerical control turning.

The company constantly evolved in the mechanic industry following the quick advancement of the design equipment closely, supported by state-of-the-art instrumentations, like robots and fully controlled electronic turning machines.

Among all the equipment used, in order to improve the production quality, Aerotecnia Coltri® uses DEA, an electronic device which analyzes like a high-definition scanner, detecting any variation of the analyzed object as small as a micron of difference in the measurement of the components’ dimensions based on the design’s tolerances.

Aerotecnia Coltri®, through its internet web site, is constantly in contact with its customers and distributors worldwide. The web site allows the company to stay focused on new proposals, technologies and on the constant evolution of the company.

www.aerotecnicacoltri.com
INDUSTRIAL SCREW COMPRESSORS
MODELS:
LP 55
LP 75
LP 90
LP 110

CHARGING RATE FROM 550 TO 1600 L/MIN
<table>
<thead>
<tr>
<th>Model</th>
<th>Driven by</th>
<th>Power</th>
<th>Rpm/min</th>
<th>Voltage</th>
<th>Frequency</th>
<th>Electrical Input</th>
<th>Pressure</th>
<th>L/min</th>
<th>Noise</th>
</tr>
</thead>
<tbody>
<tr>
<td>LP 55/8</td>
<td>Three-phase electric motor</td>
<td>5,5 Kw - 7,5 Hp</td>
<td>2900</td>
<td>400 V</td>
<td>50 Hz</td>
<td>11 A</td>
<td>8 bar</td>
<td>850</td>
<td>73 dB ISO 3746</td>
</tr>
<tr>
<td>LP 55/10</td>
<td>Three-phase electric motor</td>
<td>5,5 Kw - 7,5 Hp</td>
<td>2900</td>
<td>400 V</td>
<td>50 Hz</td>
<td>11 A</td>
<td>10 bar</td>
<td>750</td>
<td>73 dB ISO 3746</td>
</tr>
<tr>
<td>LP 55/13</td>
<td>Three-phase electric motor</td>
<td>5,5 Kw - 7,5 Hp</td>
<td>2900</td>
<td>400 V</td>
<td>50 Hz</td>
<td>11 A</td>
<td>13 bar</td>
<td>550</td>
<td>73 dB ISO 3746</td>
</tr>
<tr>
<td>LP 75/8</td>
<td>Three-phase electric motor</td>
<td>7,5 Kw - 10 Hp</td>
<td>2900</td>
<td>400 V</td>
<td>50 Hz</td>
<td>15 A</td>
<td>8 bar</td>
<td>1100</td>
<td>73 dB ISO 3746</td>
</tr>
<tr>
<td>LP 75/10</td>
<td>Three-phase electric motor</td>
<td>7,5 Kw - 10 Hp</td>
<td>2900</td>
<td>400 V</td>
<td>50 Hz</td>
<td>15 A</td>
<td>10 bar</td>
<td>1000</td>
<td>73 dB ISO 3746</td>
</tr>
<tr>
<td>LP 75/13</td>
<td>Three-phase electric motor</td>
<td>7,5 Kw - 10 Hp</td>
<td>2900</td>
<td>400 V</td>
<td>50 Hz</td>
<td>15 A</td>
<td>13 bar</td>
<td>870</td>
<td>73 dB ISO 3746</td>
</tr>
</tbody>
</table>

**BASIC VERSION**

**Dry weight:** 245 Kg / 540 lbs

**Dimensions:** height 103 cm / 40.5”, width 80 cm / 31.4”, depth 70 cm / 27.5”

- Code LP 55/8: SC0001100
- Code LP 55/10: SC0001105
- Code LP 55/13: SC0001110

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**Dry weight:** 250 Kg / 551 lbs

**Dimensions:** height 103 cm / 40.5”, width 80 cm / 31.4”, depth 70 cm / 27.5”

- Code LP 75/8: SC0001115
- Code LP 75/10: SC0001120
- Code LP 75/13: SC0001125
<table>
<thead>
<tr>
<th>Model</th>
<th>Driven by:</th>
<th>Power:</th>
<th>Rpm/min:</th>
<th>Voltage:</th>
<th>Frequency:</th>
<th>Electrical input:</th>
<th>Pressure:</th>
<th>L/min:</th>
<th>Noise:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LP 90/8</strong></td>
<td>Three-phase electric motor</td>
<td>9 Kw - 13.5 Hp</td>
<td>2900</td>
<td>400 V</td>
<td>50 Hz</td>
<td>18 A</td>
<td>8 bar</td>
<td>1450</td>
<td>73 dB ISO 3746</td>
</tr>
<tr>
<td><strong>LP 90/10</strong></td>
<td>Three-phase electric motor</td>
<td>9 Kw - 13.5 Hp</td>
<td>2900</td>
<td>400 V</td>
<td>50 Hz</td>
<td>18 A</td>
<td>10 bar</td>
<td>1350</td>
<td>73 dB ISO 3746</td>
</tr>
<tr>
<td><strong>LP 90/13</strong></td>
<td>Three-phase electric motor</td>
<td>9 Kw - 13.5 Hp</td>
<td>2900</td>
<td>400 V</td>
<td>50 Hz</td>
<td>18 A</td>
<td>13 bar</td>
<td>1200</td>
<td>73 dB ISO 3746</td>
</tr>
</tbody>
</table>

**BASIC VERSION**

Dry weight: 260 Kg / 573 lbs
Dimensions: height 103 cm / 40.5", width 80 cm / 31.4", depth 70 cm / 27.5"

Code LP 90/8 : SC0001130
Code LP 90/10 : SC0001135
Code LP 90/13 : SC0001140

<table>
<thead>
<tr>
<th>Model</th>
<th>Driven by:</th>
<th>Power:</th>
<th>Rpm/min:</th>
<th>Voltage:</th>
<th>Frequency:</th>
<th>Electrical input:</th>
<th>Pressure:</th>
<th>L/min:</th>
<th>Noise:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LP 110/8</strong></td>
<td>Three-phase electric motor</td>
<td>11 Kw - 15 Hp</td>
<td>2900 giri/min</td>
<td>400 V</td>
<td>50 Hz</td>
<td>26 A</td>
<td>8 bar</td>
<td>1600</td>
<td>73 dB ISO 3746</td>
</tr>
<tr>
<td><strong>LP 110/10</strong></td>
<td>Three-phase electric motor</td>
<td>11 Kw - 15 Hp</td>
<td>2900 giri/min</td>
<td>400 V</td>
<td>50 Hz</td>
<td>26 A</td>
<td>10 bar</td>
<td>1450</td>
<td>73 dB ISO 3746</td>
</tr>
<tr>
<td><strong>LP 110/13</strong></td>
<td>Three-phase electric motor</td>
<td>11 Kw - 15 Hp</td>
<td>2900 giri/min</td>
<td>400 V</td>
<td>50 Hz</td>
<td>26 A</td>
<td>13 bar</td>
<td>1200</td>
<td>73 dB ISO 3746</td>
</tr>
</tbody>
</table>

**BASIC VERSION**

Dry weight: 275 Kg / 606 lbs
Dimensions: height 103 cm / 40.5", width 80 cm / 31.4", depth 70 cm / 27.5"

Code LP 110/8 : SC0001145
Code LP 110/10 : SC0001150
Code LP 110/13 : SC0001155
LP 55 - 75 - 90 - 110

- Instrument board
- Electronic instrument board
- Temperature check
- Start
- Stop
- Reset
- Emergency stop
- Pressure switch for autostop
- Pressure manometer after the maintenance valve or tank pressure for air accumulation
- Manometer before the maintenance valve
- Filter separating air/oil
- Autostop 24 V
- Crew compressor
- Maintenance valve 3.5 bar
Powder coated steel
Instrument board
Soundproof cabin
Three-phase electric motor
Rubber feet
BASIC VERSION
WITH INBUILT DRIER
WITH SEPARATED DRIER
BASIC VERSION
INDUSTRIAL SCREW COMPRESSORS

MODELS:
LP 150
LP 185

CHARGING RATE
FROM 1750 TO 2600 L/MIN
### FEATURES

<table>
<thead>
<tr>
<th>Model</th>
<th>Driven by</th>
<th>Power:</th>
<th>Rpm/min:</th>
<th>Voltage:</th>
<th>Frequency:</th>
<th>Electrical Input:</th>
<th>Pressure:</th>
<th>L/min:</th>
<th>Noise:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LP 150/8</strong></td>
<td>Three-phase electric motor</td>
<td>15 Kw - 20 Hp</td>
<td>2900</td>
<td>400 V</td>
<td>50 Hz</td>
<td>30 A</td>
<td>8 bar</td>
<td>2200</td>
<td>75 dB ISO 3746</td>
</tr>
<tr>
<td><strong>LP 150/10</strong></td>
<td>Three-phase electric motor</td>
<td>15 Kw - 20 Hp</td>
<td>2900</td>
<td>400 V</td>
<td>50 Hz</td>
<td>30 A</td>
<td>10 bar</td>
<td>1950</td>
<td>75 dB ISO 3746</td>
</tr>
<tr>
<td><strong>LP 150/13</strong></td>
<td>Three-phase electric motor</td>
<td>15 Kw - 20 Hp</td>
<td>2900</td>
<td>400 V</td>
<td>50 Hz</td>
<td>30 A</td>
<td>13 bar</td>
<td>1750</td>
<td>75 dB ISO 3746</td>
</tr>
</tbody>
</table>

**BASIC VERSION**

- Dry weight: 356 Kg / 784 lbs
- Dimensions: height 112.5 cm / 44.2", width 100 cm / 39.3", depth 70 cm / 27.5"

- Code LP 135/8 : SC0001175
- Code LP 150/8 : SC0001180
- Code LP 150/10 : SC0001185

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<table>
<thead>
<tr>
<th>Model</th>
<th>Driven by</th>
<th>Power:</th>
<th>Rpm/min:</th>
<th>Voltage:</th>
<th>Frequency:</th>
<th>Electrical Input:</th>
<th>Pressure:</th>
<th>L/min:</th>
<th>Noise:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LP 185/8</strong></td>
<td>Three-phase electric motor</td>
<td>18.5 Kw - 24.8 Hp</td>
<td>2900 giri/min</td>
<td>400 V</td>
<td>50 Hz</td>
<td>36 A</td>
<td>8 bar</td>
<td>2600</td>
<td>77 dB ISO 3746</td>
</tr>
<tr>
<td><strong>LP 185/10</strong></td>
<td>Three-phase electric motor</td>
<td>18.5 Kw - 24.8 Hp</td>
<td>2900 giri/min</td>
<td>400 V</td>
<td>50 Hz</td>
<td>36 A</td>
<td>10 bar</td>
<td>2450</td>
<td>77 dB ISO 3746</td>
</tr>
<tr>
<td><strong>LP 185/13</strong></td>
<td>Three-phase electric motor</td>
<td>18.5 Kw - 24.8 Hp</td>
<td>2900 giri/min</td>
<td>400 V</td>
<td>50 Hz</td>
<td>36 A</td>
<td>13 bar</td>
<td>2000</td>
<td>77 dB ISO 3746</td>
</tr>
</tbody>
</table>

**BASIC VERSION**

- Dry weight: 356 Kg / 784 lbs
- Dimensions: height 112.5 cm / 44.2", width 100 cm / 39.3", depth 70 cm / 27.5"

- Code LP 135/8 : SC0001190
- Code LP 185/8 : SC0001195
- Code LP 185/10 : SC0001200
LP 150 - 185

Pumping unit
Pressure switch for autostop
Oil tank
Filter separating air/oil
Oil filter
Three-phase electric motor
Safety valve
LP 150 - 185

- Air cooling intake
- Powder coated steel
- Instrument board
- Electronic instrument board
- Temperature check
- Reset
- Start
- Stop
- Emergency stop
- Main switch off/on
- Manometer before the maintenance valve
- Pressure manometer after the maintenance valve or tank pressure for air accumulation
- Inlet of cooling air
- Rubber feet
The incoming air, warm and humid, enters the air-air exchanger. Then, it goes into the evaporator (air-refrigerant exchanger) where air cools down to approximately 2° C, thus allowing the humidity inside to condensate and be discharged automatically in the suitable receiver. Cold and dry air returns to the air-air exchanger in order to be warmed up again before it leaves the drier; the outlet temperature is approximately 8 degrees lower than the inlet temperature.

**Refrigerated Air Drier Features**

- **Compressor air flow:** 600 L/min, 950 L/min, 1200 L/min, 1800 L/min, 2500 L/min
- **Connections:** 1/2", 1/2" LP, 1/2" LP, 1/2" LP, 1"
- **Compressor combination:** 1/2" LP 55, 1/2" LP 75 - 90, 1/2" LP 110, 1/2" LP 150 - 185
- **Dimensions:** height 47 cm / 18.5", width 37 cm / 14.5", depth 51.5 cm / 20.2"
- **Weight:** 25 Kg / 55 lbs, 26 Kg / 57.3 lbs, 30 Kg / 66 lbs, 30 Kg / 66 lbs, 32 Kg / 70.5 lbs, 32 Kg / 70.5 lbs, 36 Kg / 79.3 lbs
- **Model:** AMD 9, AMD 12, AMD 18, AMD 25, AMD 32
- **Codice:** LP000150, LP000155, LP000165, LP000175, LP000185

**Features**

- **Compressor:**
  - **Air flow:** 600 L/min, 950 L/min, 1200 L/min, 1800 L/min, 2500 L/min
  - **Connections:** 1/2" LP 55, 1/2" LP 75 - 90, 1/2" LP 110, 1/2" LP 150 - 185
  - **Dimensions:** height 47 cm / 18.5", width 37 cm / 14.5", depth 51.5 cm / 20.2"
  - **Weight:** 25 Kg / 55 lbs, 26 Kg / 57.3 lbs, 30 Kg / 66 lbs, 30 Kg / 66 lbs, 32 Kg / 70.5 lbs, 32 Kg / 70.5 lbs, 36 Kg / 79.3 lbs
  - **Model:** AMD 9, AMD 12, AMD 18, AMD 25, AMD 32
  - **Codice:** LP000150, LP000155, LP000165, LP000175, LP000185
**OPTIONAL ACCESSORIES**

**AIR FILTER**

<table>
<thead>
<tr>
<th>Max flow-rate L/min</th>
<th>Connections</th>
<th>Model</th>
<th>Compressor combination</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>850</td>
<td>3/8&quot;</td>
<td>FT 008</td>
<td>LP 55</td>
<td>LP000008</td>
</tr>
<tr>
<td>1.200</td>
<td>1/2&quot;</td>
<td>FT 012</td>
<td>LP 75</td>
<td>LP000012</td>
</tr>
<tr>
<td>1.850</td>
<td>3/4&quot;</td>
<td>FT 018</td>
<td>LP 90 - 110</td>
<td>LP000018</td>
</tr>
<tr>
<td>3.300</td>
<td>1&quot;</td>
<td>FT 030</td>
<td>LP 150 - 185</td>
<td>LP000030</td>
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</table>

**FILTER ELEMENT**

<table>
<thead>
<tr>
<th>Filtration grade</th>
<th>Color</th>
<th>Model</th>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>3 micron</td>
<td>GREEN</td>
<td>FTP 008</td>
<td>LPFTP008</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FTP 0012</td>
<td>LPFTP012</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FTP 0018</td>
<td>LPFTP018</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FTP 0030</td>
<td>LPFTP030</td>
</tr>
<tr>
<td>1 micron</td>
<td>RED</td>
<td>FTS 008</td>
<td>LPFTS008</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FTS 0012</td>
<td>LPFTS012</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FTS 0018</td>
<td>LPFTS018</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FTS 0030</td>
<td>LPFTS030</td>
</tr>
<tr>
<td>0.01 micron</td>
<td>YELLOW</td>
<td>FTX 008</td>
<td>LPFTX008</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FTX 0012</td>
<td>LPFTX012</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FTX 0018</td>
<td>LPFTX018</td>
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<tr>
<td></td>
<td></td>
<td>FTX 0030</td>
<td>LPFTX030</td>
</tr>
<tr>
<td>ACTIVATED CARBON</td>
<td>BLACK</td>
<td>FTZ 008</td>
<td>LPFTZ008</td>
</tr>
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<td></td>
<td></td>
<td>FTZ 0012</td>
<td>LPFTZ012</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FTZ 0018</td>
<td>LPFTZ018</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FTZ 0030</td>
<td>LPFTZ030</td>
</tr>
</tbody>
</table>

**CLOGGING INDICATOR**

ON DEMAND  
Code: LP000050

**DIFFERENTIAL GAUGE**

ON DEMAND  
Code: LP000055
## AIR TANKS

<table>
<thead>
<tr>
<th>Capacity/liters</th>
<th>Diameter/cm.</th>
<th>Height/cm.</th>
<th>Weight/Kg</th>
<th>Pressure/bar</th>
<th>Code:</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>43</td>
<td>156</td>
<td>50</td>
<td>11</td>
<td>LP000100</td>
</tr>
<tr>
<td>270</td>
<td>50</td>
<td>164</td>
<td>60</td>
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<td>LP000105</td>
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<tr>
<td>500</td>
<td>60</td>
<td>203,5</td>
<td>130</td>
<td>11</td>
<td>LP000110</td>
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<tr>
<td>725</td>
<td>79</td>
<td>182</td>
<td>167</td>
<td>11</td>
<td>LP000115</td>
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<td>1.000</td>
<td>79</td>
<td>231</td>
<td>204</td>
<td>11</td>
<td>LP000120</td>
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</tbody>
</table>

## AUTOMATIC TIMED CONDENSATE DRAIN

<table>
<thead>
<tr>
<th>Max pressure</th>
<th>Inlet connection</th>
<th>Drain connection</th>
<th>Code:</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 bar</td>
<td>G 3/4” BSP-M</td>
<td>Rilsan ø x 10 x 1</td>
<td>LP00050</td>
</tr>
</tbody>
</table>
Here is the outline for a correct installation of a drier not included in the LP compressor body. The installation prevents the air entering the dryer at a too high temperature to optimize the decrease of humidity in the air.

**Prefilter:** The environmental intake air holds substances which can remain in the compressed air and for this reason the air must be filtered in order to obtain pure compressed air. This procedure is important to reduce the wear of the machineries and the systems involved.

** Tanks for air accumulation:** tanks are extremely important in the air compression line because they compensate for the consumption peaks and function also as condensate separators.

**Closing Valves:** they are essential to substitute the saturated filters without necessarily closing the air compression system.
Technical features and product range can be changed without pre-notice.