



# BOOSTER COMPRESSORS

02

High pressure compressors  
for technical gases in industrial applications.



COLTRI

# COMPANY

**Aerotecnica Coltri** was founded in the 60s to respond to offers support to the diving sector. We structured our workshops this way, to create an Italian production of high pressure compressors for breathable air.

We didn't stop there, our commitment to innovation allowed us to expand our offer with products dedicated to technical gases, applying the same quality-oriented vision without compromise. The constant evolution in design and manufacturing has thus become the central element of our identity: more than fifty years of development have allowed us to create machines that now represent the reference point of the industry in the world.

This propensity for research and development has allowed us to go from being users of the most modern technical options to the lead the progress of the market. We use all the most modern devices, such as robots and numerically controlled machine tools, to produce increasingly reliable, **efficient and long-lasting** products.

Every component of our pumping units is designed and created in Coltri workshops. We assemble all the compressors shown in this catalogue in their entirety according to our high quality standards. We use machinery such as ZEISS®, which plays a fundamental role in metrology.

This allows us to detect the geometrical characteristics of components and to predict how they will behave when used as elements of more complex assemblies.

Our attention and constant growth driven by clear objectives of excellence have allowed us to obtain **quality certifications** of international relevance, rewarding our dedication and commitment.





Technical characteristics, compressor frame colors, accessories and consumables in this catalogue may be modified at any time without notice.

**Our dedication and our commitment  
have allowed us to obtain  
quality certifications  
recognized internationally**

UNI EN ISO **9001:2015**



SISTEMA DI GESTIONE  
QUALITÀ CERTIFICATO



# COMPACT

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LINE: BOOSTER



## DESCRIPTION

Compact is the perfect high pressure booster for the compression of air, nitrogen and technical gases at non-atmospheric intake pressure between 2 and 8 bar. The controls are easily accessible thanks to the ergonomic design, for a professional machine that can meet the needs of its users. The compact design allows installation even in particularly tight spaces. Compact is a series of air-cooled boosters, equipped with automatic condensate draining system, autostop and re-start functions.



### DRIVEN BY

Three-phase electric motor

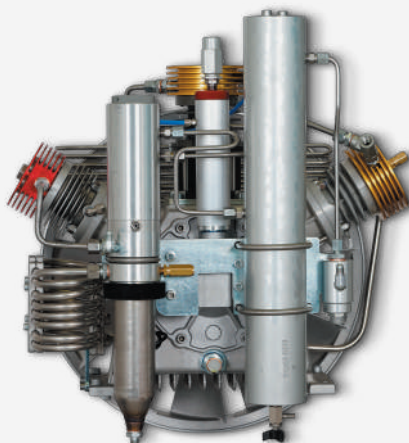
### CHARGING RATE

255÷615 l/min

### WORKING PRESSURE

From 232 to 330 Bar

### BOOSTER 16 PUMPING UNIT



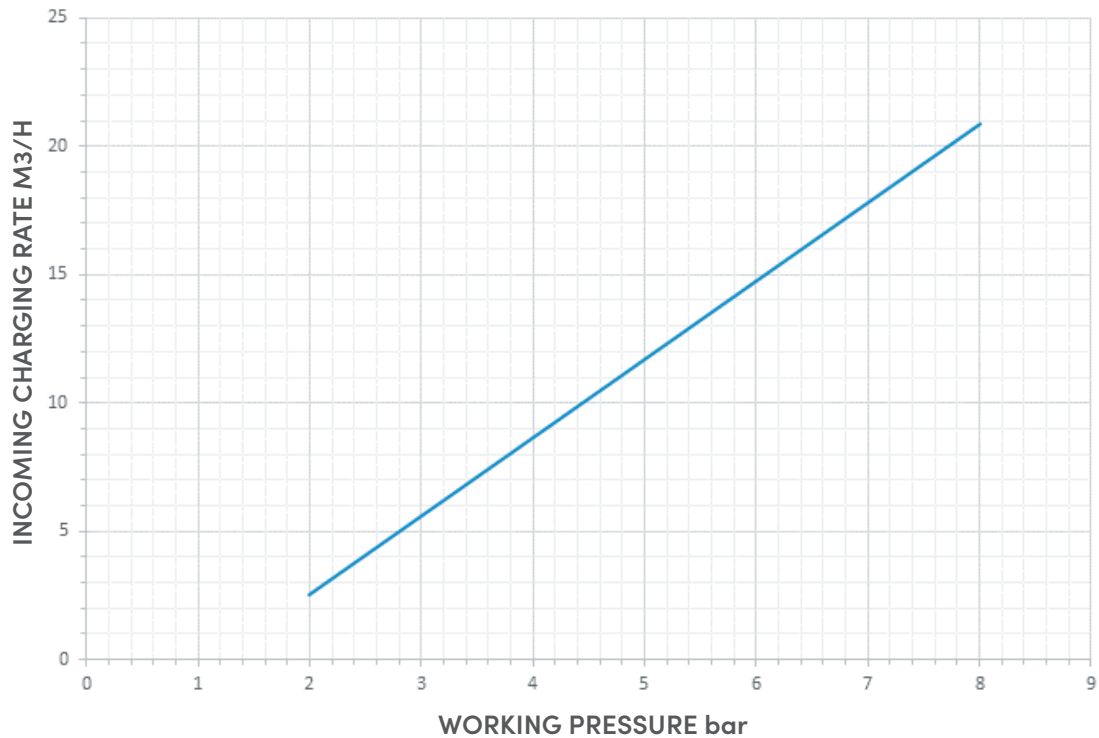
## TECHNICAL DATA

### BOOSTER 16

DRIVEN BY	THREE-PHASE ELECTRIC MOTOR
CHARGING RATE	255÷615 l/min - 15.2÷36.8 m <sup>3</sup> /h - 8.9÷21.6 CFM FAD
INCOMING CHARGING RATE	From 2.5 m <sup>3</sup> /h - 1.4 CFM FAD 2 bar - 29 psig to 21 m <sup>3</sup> /h - 12.6 CFM FAD 8 bar - 116 psig
WORKING PRESSURE	232 - 300 - 330 bar
DIMENSION (W x H x D)	93 x 90 x 64 cm - 36.61" x 35.43" x 25.19"
NET WEIGHT Approx.	163 kg - 359 lb
NOISE	74,5 dB

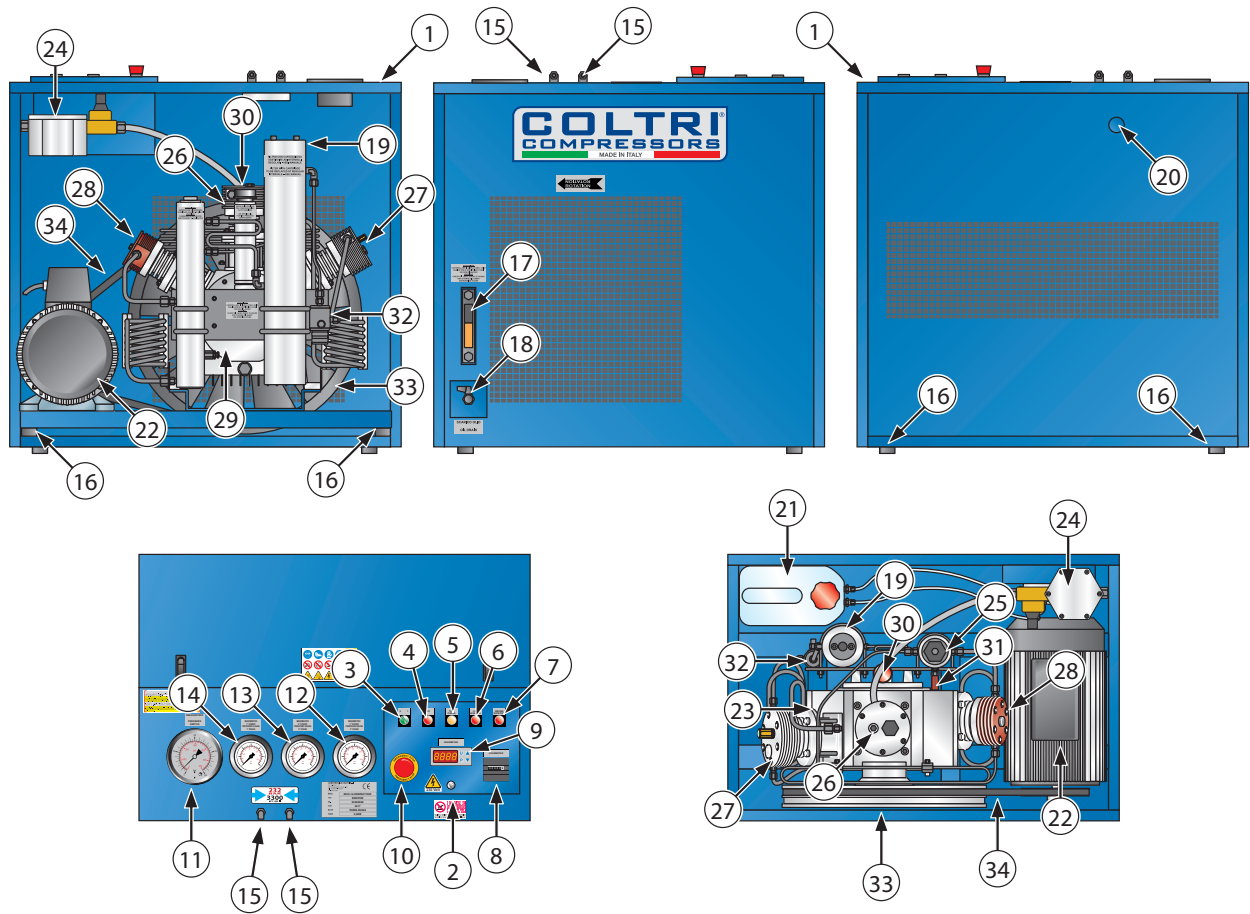
## GRAPHIC

BOOSTER CHARGING RATE 5,5 KW



## STANDARD

- **ELECTRICAL CABINET**  
with hour counter
- **PHASE CONTROLLER**  
that prohibits reverse rotation
- **PRESSURE SWITCH**  
on entrance
- **AUTOMATIC CONDENSATE DRAIN**  
and autostop
- **PRESSURE GAUGES**  
interstage control  
+ entry pressure
- **THERMOSTAT**  
Cabin temperature  
thermostat/auto shut off
- **OIL LEVEL**  
switch/auto shut off
- **RESTART**



- |   |  |                                 |
|---|--|---------------------------------|
| <b>1</b> Frame                                      | <b>12</b> 3 <sup>rd</sup> stage pressure gauge | <b>27</b> 2 <sup>nd</sup> stage |
| <b>2</b> Control pannel                             | <b>13</b> 2 <sup>nd</sup> stage pressure gauge | <b>28</b> 3 <sup>rd</sup> stage |
| <b>3</b> On   | <b>14</b> 1 <sup>st</sup> stage pressure gauge | <b>29</b> Monobloc              |
| <b>4</b> Off  | <b>15</b> High pressure gas output             | <b>30</b> Oil filler plug       |
| <b>5</b> Condensate drain pushbutton                | <b>16</b> Anti-vibration device                | <b>31</b> Safety valve          |
| <b>6</b> Oil level warning light                    | <b>17</b> Oil level                            | <b>32</b> Maintenance valve     |
| <b>7</b> Direction of rotation indicator light      | <b>18</b> Oil drain valves                     | <b>33</b> Cooling fan           |
| <b>8</b> Hour counter                               | <b>19</b> Purifier filter                      | <b>34</b> Belt                  |
| <b>9</b> Cabinet interior / cooling air temperature | <b>20</b> Intake extension hole                |                                 |
| <b>10</b> Emergency pushbutton                      | <b>21</b> Condensate collection tank           |                                 |
| <b>11</b> Automatic shutdown pressure switch        | <b>22</b> Motor                                |                                 |
|   | <b>23</b> Compressor                           |                                 |
|   | <b>24</b> Filter                               |                                 |
|   | <b>25</b> Final condensate separator           |                                 |
|   | <b>26</b> 1 <sup>st</sup> stage                |                                 |

# OPEN

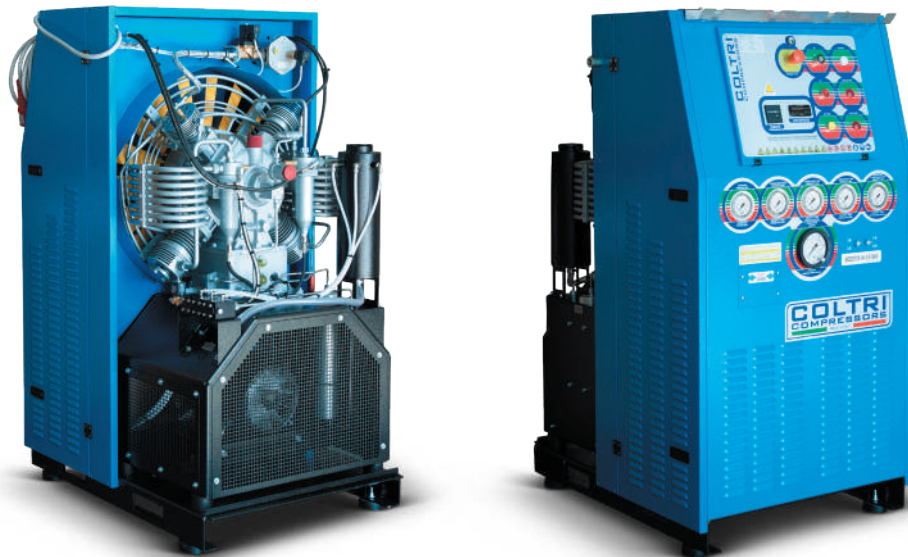
LINE: BOOSTER





## DESCRIPTION

The OPEN model is a high pressure booster compressor based on the efficient mechanics of the MCH 36 pumping unit. Control and command components, essential for daily operation, are located on the front panel with easy access. Powered by a three-phase electric motor, it is equipped with all the most modern safety and assistance systems, such as automatic condensate drain, automatic shutdown and re-start functions.



### DRIVEN BY

Three-phase electric motor

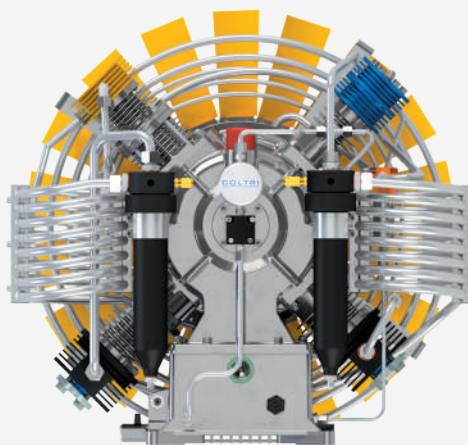
### CHARGING RATE

258÷610 l/min

### WORKING PRESSURE

From 232 to 420 Bar

### BOOSTER 36 PUMPING UNIT



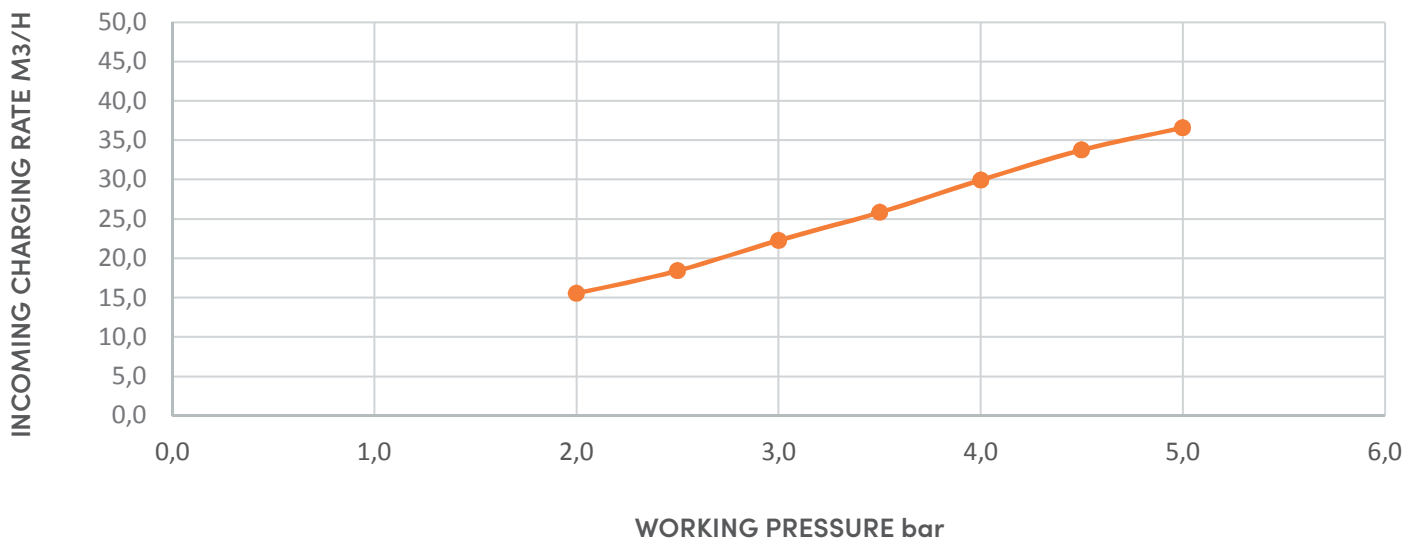
## TECHNICAL DATA

### BOOSTER 36

DRIVEN BY	THREE-PHASE ELECTRIC MOTOR
CHARGING RATE	258÷610 l/min - 15,48÷36,6 m <sup>3</sup> /h - 9.1÷21.5 CFM FAD
INCOMING CHARGING RATE	From 15,5 m <sup>3</sup> /h - 9.1 CFM FAD 2 bar - 29 psig to 36,6 m <sup>3</sup> /h - 21.5 CFM FAD a 5 bar - 72.5 psig
WORKING PRESSURE	232 - 300 - 330 - 420 bar - 3365 - 4351 - 4786 - 6091 psig
DIMENSION (W x H x D)	79 x 153 x 105,2 cm - 31.10" x 60.23" x 41.41"
NET WEIGHT Approx.	375 kg - 827 lb
NOISE	78 dB

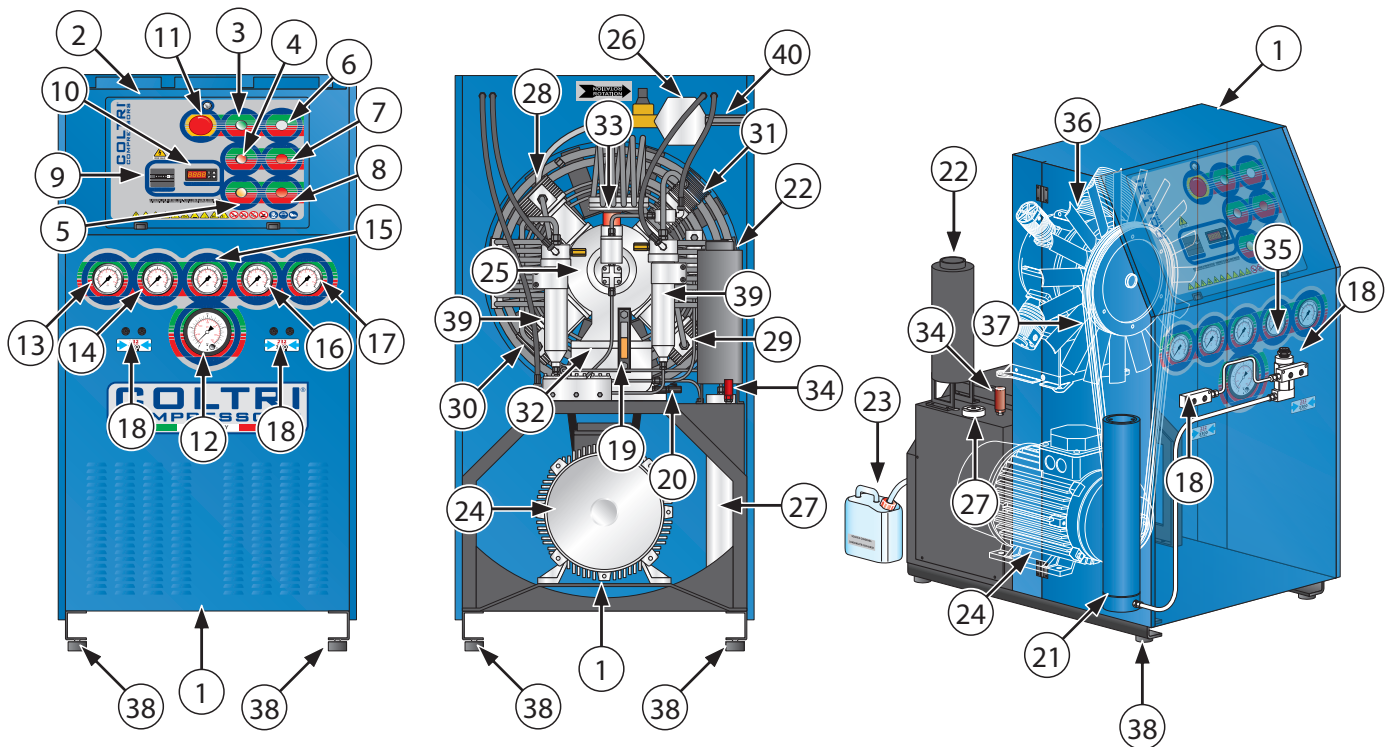
## GRAPHIC

BOOSTER CHARGING RATE 11 KW



## STANDARD

- **ELECTRICAL CABINET**  
with hour counter
- **AUTOMATIC CONDENSATE DRAIN**  
and autostop
- **OIL LEVEL**  
switch/auto shut off
- **PHASE CONTROLLER**  
that prohibits reverse rotation
- **PRESSURE GAUGES**  
interstage control  
+ entry pressure
- **RESTART**
- **PRESSURE SWITCH**  
on entrance
- **THERMOSTAT**  
Cabin temperature  
thermostat/auto shut off
- **OIL PUMP**



- |   |   |                                 |
|---|---|---------------------------------|
| <b>1</b> Frame  | <b>14</b> 1 <sup>st</sup> stage pressure gauge                      | <b>28</b> 1 <sup>st</sup> stage |
| <b>2</b> Control pannel                                 | <b>15</b> 2 <sup>nd</sup> stage pressure gauge                      | <b>29</b> 2 <sup>nd</sup> stage |
| <b>3</b> On   | <b>16</b> 3 <sup>rd</sup> stage pressure gauge                      | <b>30</b> 3 <sup>rd</sup> stage |
| <b>4</b> Off  | <b>17</b> 4 <sup>th</sup> stage pressure gauge/<br>working pressure | <b>31</b> 4 <sup>th</sup> stage |
| <b>5</b> Condensate drain pushbutton                    | <b>18</b> Pressure gas outlet                                       | <b>32</b> Monobloc              |
| <b>6</b> Power indicator light                          | <b>19</b> Oil level   | <b>33</b> Oil filler plug       |
| <b>7</b> Direction of rotation indicator<br>light       | <b>20</b> Oil drain valves  | <b>34</b> Safety valve          |
| <b>8</b> Oil level warning light                        | <b>21</b> Purifier filter   | <b>35</b> Maintenance valve     |
| <b>9</b> Hour counter                                   | <b>22</b> Condensate collection<br>container                        | <b>36</b> Cooling fan           |
| <b>10</b> Cabinet interior / cooling air<br>temperature | <b>23</b> Condensate collection tank                                | <b>37</b> Belt                  |
| <b>11</b> Emergency pushbutton                          | <b>24</b> Motor   | <b>38</b> Anti-vibration device |
| <b>12</b> Automatic shutdown pressure<br>switch         | <b>25</b> Compressor  | <b>39</b> Condensate separator  |
| <b>13</b> Oil pressure gauge                            | <b>26</b> Air filter  | <b>40</b> Gas inlet 2÷5bar      |
|   | <b>27</b> Final condensate separator                                |                                 |

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