HIGH PERFORMANCE MACHINES FOR PET BOTTLES PRODUCTION

optima turbo
SERIES 4/8

HIGH EFFICIENCY MACHINE
\[ \eta = 98\% \]

BOTTLE DIMENSIONS

optima 4 turbo

**VOLUME**
0.25 - 2.5 L

**DIAMETER**
Ø Max. 115mm

**HEIGHT**
Min. 11 mm – Max. 42 mm

**Ø UNDER NECKRING**
Min. 18 mm – Max. 42 mm

optima 8 turbo

**VOLUME**
0.25 - 1.5 L

**DIAMETER**
Ø Max. 95mm

**HEIGHT**
Min. 340mm

**DIAMETER**
optima 4 turbo & optima 8 turbo

VOLUME
0.25 – 1.5 L

DIAMETER
optima 4 turbo
Ø Max. 115mm

optima 8 turbo
Ø Max. 95mm

SERIES 4/8

HIGH EFFICIENCY MACHINE
\[ \eta = 98\% \]
**MAIN PARAMETERS**

<table>
<thead>
<tr>
<th>optima 4 turbo</th>
<th>optima 8 turbo</th>
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<tbody>
<tr>
<td><strong>Blowing pressure</strong></td>
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<tr>
<td>Bottle size up to 40 bar</td>
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<tr>
<td>0,25 - 2.5 L</td>
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<tr>
<td>Output* up to 7200 bph</td>
<td>Output* up to 14000 bph</td>
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<tr>
<td>0,5L (0,5L)</td>
<td>0,5L (0,5L)</td>
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<tr>
<td>up to 7100 bph (1,0L)</td>
<td>up to 12000 bph (1,0L)</td>
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<tr>
<td>up to 6500 bph (1,5L)</td>
<td>up to 10500 bph (1,5L)</td>
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<tr>
<td>up to 5600 bph (2,0L)</td>
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<tr>
<td>up to 5000 bph (2,5L)</td>
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- **Power**: 78 kW
- **Effective power**: 34 kW
- **Working air quantity (10 bar)**: 2.0 m³/min
- **Working air quantity (40 bar)**: 2.5 m³/min
- **Number of cavities**: 4
- **Steering voltage**: 24 V / DC
- **Mould material**: PORTAL

**KEY ADVANTAGES**

- Cost effective production of high quality PET bottles
- Innovative and energy saving preform heating system
- Low air consumption
- Quick, simple neck and mold changeover
- Advanced central lubrication system
- Innovative preform loading system with auto-stop mechanism
- High-tech and precise servomotors system / fully electric machine
- Optimized manipulator movements for faster machine operation
- High output per one cavity
- Orientated bottle output – easy to connect with air conveyor
- Small footprint

**POWER**

- **EXTREMELY LOW POWER CONSUMPTION**
- **MACHINE NEEDS**
  - **34kW**
  - **ENERGY TO BLOW**
  - **7100 BOTTLES**
  - **OF 1.0L VOLUME**
  - **1 BOTTLE = 4.7W ONLY**

**AIR**

- **OPTIMIZED AIR CONSUMPTION**
  - **DEAD VOLUME**
  - **OF ONLY**
  - **250 ml**
  - **PER BOTTLE**

**OVERALL MACHINE EFFICIENCY**

\[ \eta = 98\% \]