UnoLine™ Plus

A Rugged Rotary Vane Pump.

For Harshest Industrial Use.
UnoLine™ Plus

The workhorse for industrial vacuum applications

The UnoLine™ Plus is an optimum solution for industrial applications. This rotary vane pump has a proven track record for highest reliability as both a stand-alone pump and as a backing pump for Pfeiffer Vacuum Roots pumps.

This is a water-cooled pump that is extremely resistant to dust and dirt. It is equipped with an oil regeneration system. This enables condensate, dirt and dust particles to be removed from the operating fluid, collected in the vapor separator and then drained. The adjustable cooling water regulating valve keeps the UnoLine™ Plus at the required operating temperature. The pumps are equipped with a gas ballast system for pumping off vapors.

UnoLine™ Plus – The workhorse that offers extremely high vapor capacity!

Proven in any number of fields

Metallurgy

Vacuum furnaces

Transformer drying

Advantages at a glance

► Rugged and long-lasting
► Resistant to dust and dirt
► Bearings not in contact with process vapors/gases
► Extremely low speed
► Very high water vapor capacity
► Cooling water controller for ideal temperature control
► Low cost of ownership
► Maximum process compatibility
► Highest reliability
► Maximum service life time
► Best suitable for drying processes
► Optimum process adaption

Applications

► Transformer drying
► Cable drying
► Oil recovery
► Metallurgy
► Coating
► Chemistry and process technology
### Technical data/Order numbers/Accessories

<table>
<thead>
<tr>
<th>UnoLine™ Plus</th>
<th>BA 251 50 Hz</th>
<th>BA 251 60 Hz</th>
<th>BA 501 50 Hz</th>
<th>BA 501 60 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flange (in)</td>
<td>DN 63 ISO-F</td>
<td>DN 63 ISO-F</td>
<td>DN 100 ISO-F</td>
<td>DN 100 ISO-F</td>
</tr>
<tr>
<td>Flange (out)</td>
<td>DN 63 ISO-K</td>
<td>DN 63 ISO-K</td>
<td>DN 100 ISO-K</td>
<td>DN 100 ISO-K</td>
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<tr>
<td>Mains voltage</td>
<td>230/400 V</td>
<td>265/460 V</td>
<td>230/400 V</td>
<td>440/480 V</td>
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<tr>
<td>Eff. pumping speed</td>
<td>250 m³/h</td>
<td>500 m³/h</td>
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<td></td>
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<tr>
<td>Ultimate pressure: Total without gas ballast</td>
<td>&lt; 6 · 10⁻² mbar</td>
<td>&lt; 6 · 10⁻² mbar</td>
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<td></td>
</tr>
<tr>
<td>Ultimate pressure: Total with gas ballast</td>
<td>&lt; 6 · 10⁻¹ mbar</td>
<td>&lt; 6 · 10⁻¹ mbar</td>
<td></td>
<td></td>
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<tr>
<td>Rated power</td>
<td>11 kW</td>
<td>15 kW</td>
<td>18 kW</td>
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</tr>
<tr>
<td>Nominal rotation speed</td>
<td>490 1/min</td>
<td>345 1/min</td>
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<tr>
<td>Water vapor tolerance</td>
<td>30 mbar</td>
<td>30 mbar</td>
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<tr>
<td>Water vapor capacity</td>
<td>7,000 g/h</td>
<td>14,000 g/h</td>
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<tr>
<td>Cooling water consumption</td>
<td>50 l/h</td>
<td>90 l/h</td>
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<tr>
<td>P3 operating fluid filling</td>
<td>17 l</td>
<td>45 l</td>
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<tr>
<td>Weight</td>
<td>570 kg</td>
<td>1,100 kg</td>
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</table>

**Order numbers**

| PK C42 602 | PK C42 637 | PK C43 602 | PK C43 637 |

### Accessories

- Oil mist filter ONF 63/160 PK Z40 010 | PK Z40 014
- Condensate separator KAS 63/100 PK Z10 010 | PK Z10 012
- Dust filter STP 63/100 PK Z60 210 | PK Z60 212
- Activated carbon filter FAK 63/100 PK Z30 010 | PK Z30 012
- Operating fluid level control, 24 VDC PK 133 115-T
- Cooling water connection unit PK 133 100-T
- Pressure monitor for cooling water unit P 4747 161 MF
- PTC resistor tripping unit P 4768 051 FQ
- P3 operating fluid 20 l/50 l PK 001 108-T | PK 001 109-T

Further accessories on request

### Pumping speed

![Pumping speed graph](image)

- BA 251 without gas ballast
- BA 251 with gas ballast
- BA 501 without gas ballast
- BA 501 with gas ballast

### Dimensions

![Dimensions diagram](image)

<table>
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<tbody>
<tr>
<td>A</td>
<td>DN 63 ISO-F</td>
<td>DN 100 ISO-F</td>
<td>H</td>
</tr>
<tr>
<td>B</td>
<td>DN 63 ISO-K</td>
<td>DN 100 ISO-K</td>
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<td>D</td>
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<td>E</td>
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<td>F</td>
<td>522</td>
<td>715</td>
<td>M</td>
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<tr>
<td>G</td>
<td>1030</td>
<td>1260</td>
<td>N</td>
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Dimensions in mm
Vacuum is nothing, but everything to us!

Pfeiffer Vacuum has been setting technological milestones for creating, measuring and analyzing vacuum for over 100 years. Our comprehensive product range covers individual components to complex vacuum systems.

Quality and service worldwide from the inventor of the turbopump: Pfeiffer is the international market leader with more than 280,000 turbopumps sold to date.

Do you have questions about your application? Please ask us.

Sales, consulting and service

- Worldwide on-site service
- Comprehensive in-factory and on-site training programs
- Modular service system ranging from spare parts to maintenance contracts