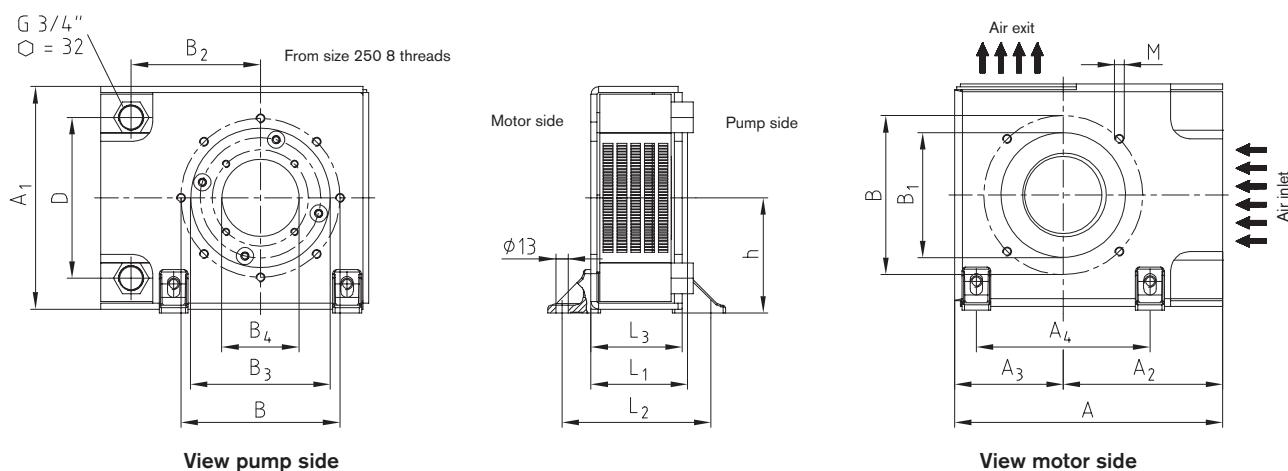
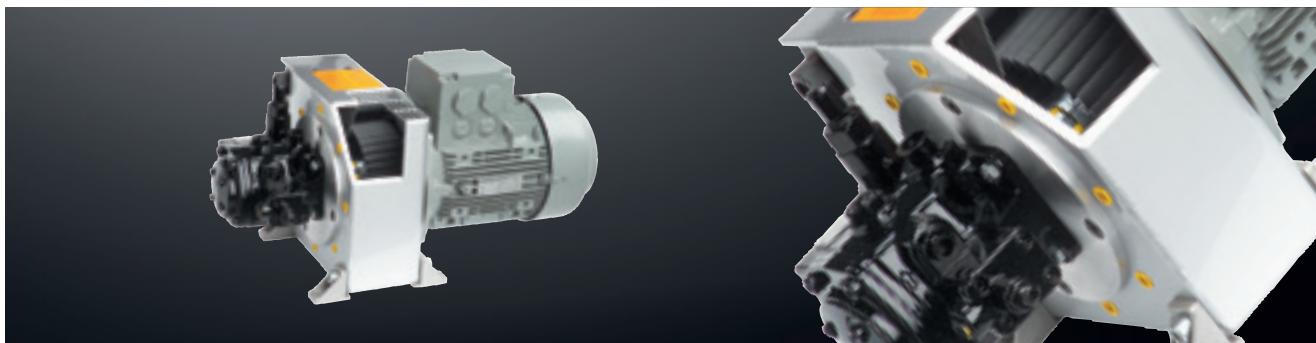


Bellhousing with integrated oil/air cooler



| Bellhousing with integrated oil/air cooler type PIK (patent pending) | | | | | | | | | | | | | | | | | | |
|--|---------------------|------------------------|-------------------|----------------|----------------|-----|----------------|----------------|----------------|----------------|-----|----------------|----------------|----------------|---------------------|-----|-----|-------|
| IEC motor Size (Welle) | kW with 1500 rpm | PIK oil cooler type | Dimensions [mm] * | | | | | | | | | | | | | | | |
| | | | L ₁ | L ₂ | L ₃ | A | A ₁ | A ₂ | A ₃ | A ₄ | B | B ₁ | B ₂ | B ₃ | min. B ₄ | D | M | h |
| 80 | 0,55 | PIK 200/1/... | 100 | 154,5 | 94,5 | 275 | 225 | 163 | 112,5 | 180 | 165 | 130 | 130 | 145 | 20 | 167 | M10 | 116,5 |
| (19 x 40) | 0,75 | PIK 200/2/... | 110 | 154,5 | 94,5 | 275 | 225 | 163 | 112,5 | 180 | 165 | 130 | 130 | 145 | 20 | 167 | M10 | 116,5 |
| 90S / 90L | 1,1 | PIK 200/4/... | 124 | 154,5 | 94,5 | 275 | 225 | 163 | 112,5 | 180 | 165 | 130 | 130 | 145 | 20 | 167 | M10 | 116,5 |
| (24 x 50) | 1,5 | | | | | | | | | | | | | | | | | |
| 100L / 100M | 2,2 | PIK 250/2/...** | 124 | 175,5 | 115,5 | 308 | 250 | 180 | 125 | 220 | 215 | 180 | 150 | 190 | 20 | 192 | M12 | 129 |
| (28 x 60) | 3,4 | PIK 250/4/...** | 135 | 175,5 | 115,5 | 305 | 250 | 180 | 125 | 220 | 215 | 180 | 150 | 190 | 20 | 192 | M12 | 129 |
| 132S / 132M (38x80) | 5,5 | PIK 300/1/... | 144 | 199,5 | 139,5 | 359 | 300 | 205 | 154 | 260 | 265 | 230 | 175 | 234 | 30 | 242 | M12 | 154 |
| | 7,5 | PIK 300/3/... | 155 | 199,5 | 139,5 | 359 | 300 | 205 | 154 | 260 | 265 | 230 | 175 | 234 | 30 | 242 | M12 | 154 |
| 160M / 160L (42 x 110) | 11 | PIK 350/1/... | 188 | 243,5 | 183,5 | 405 | 360 | 230 | 175 | 310 | 300 | 250 | 200 | 260 | 50 | 292 | M16 | 184 |
| | 15 | PIK 350/2/... | 204 | 243,5 | 183,5 | 405 | 360 | 230 | 175 | 310 | 300 | 250 | 200 | 260 | 50 | 292 | M16 | 184 |
| 180M / 180L (48 x 110) | 18,5 | | | | | | | | | | | | | | | | | |
| | 22 | | | | | | | | | | | | | | | | | |

* Dimensions following the VDMA standard 24561.

** In case of an engine speed of ≥ 1900 rpm a steel fan must be used.

Assembly

With assembly and disassembly of the oil connection pipes please hold up with a hexagon tool (max. tightening torque 40 Nm). No reduction of the cross-section behind the cooler. Return flow filters should be installed in front of the cooler (dynamic pressure, danger of bursting). Tensions inside the connection pipes must be avoided! Vibration of piping must be avoided (should possibly be intercepted in front of the connection). Supply and discharge to be chosen alternatively. Please note that many hydraulic systems generate pressure peaks of far more than 12 bar in the reverse motion (danger of bursting)! Please observe our assembly instructions at www.ktr.com.

For PIK sizes 200 and 350 please specify the IEC motor sizes in your order.

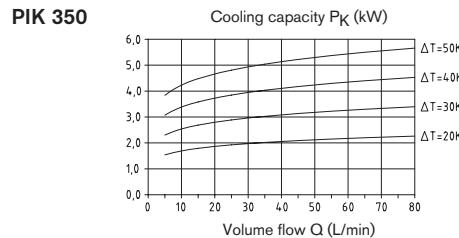
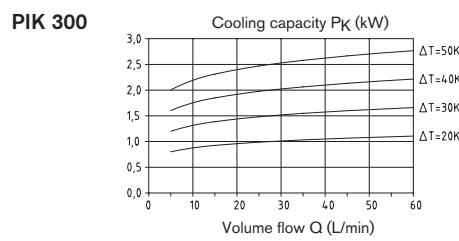
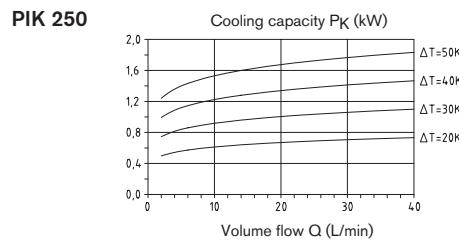
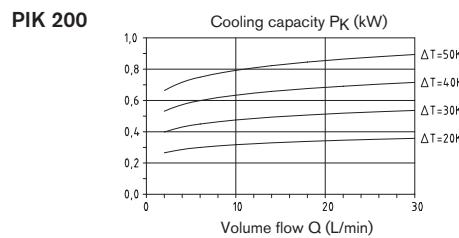
| Ordering example: | PIK | 300 | 3 | 5 | 15 |
|-------------------|--|------------------------------|--|----------------------------|------------------------------|
| | Bellhousing with integrated oil cooler | Flange diameter of IEC motor | Serial model code (code referring to length) | In-house modification code | Standard type 15 – V1 design |

Oil/air coolers type PIK

Cooling systems

Oil/air cooler type PIK 200 - 350

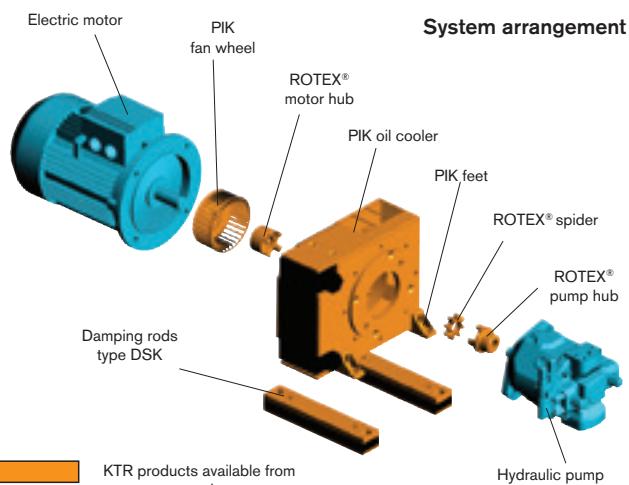
1. Cooling capacity for a speed of 1500 rpm depending on the temperature difference between oil intake and air intake and oil volume



The diagrammes shown are based on actual measurements of the PIK oil cooler performed in the KTR R & D test center. With 3000 rpm the cooling capacity is increased by approx. 50 %.

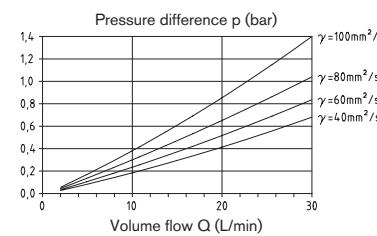
2. Operating pressure

The permissible operating pressure for the oil cooler is 12 bar with dynamic operation. Max. operating pressure with static load is 20 bar. (All figures apply for the medium pressure cooler.)

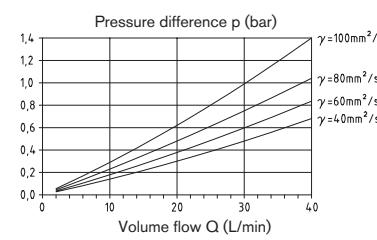


3. Pressure difference depending on oil flow and oil viscosity

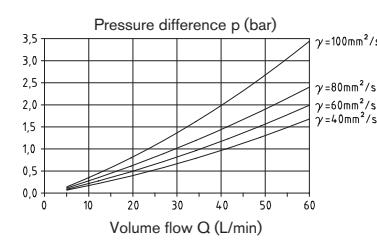
PIK 200



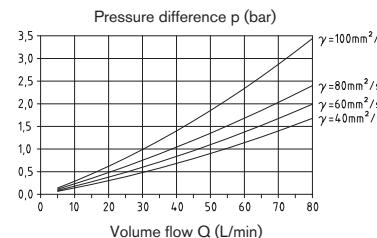
PIK 250



PIK 300



PIK 350



Viscosity measured up to 100 mm²/s.

Higher viscosity on request.

4. Fan wheel

Torsional direction view onto the pump – right – standard type.

Performance of the fan with 1500 rpm

PIK 200 = 25 W

PIK 250 = 40 W

PIK 300 = 125 W

PIK 350 = 230 W

Air pressure rate in m³/h with 1500 rpm

PIK 200 = ca. 90 m³/h

PIK 250 = ca. 200 m³/h

PIK 300 = ca. 400 m³/h

PIK 350 = ca. 860 m³/h

5. Cooler connection

R 3/4" internal thread

6. Oil flow

With higher flow rates than specified in the diagramme, please consult with us. Phone: +49 5971 798-0

Any questions? Please contact us.