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Find the *Thermo / HAAKE P1-B5* at our website: ***Click HERE***

The HAAKE Phoenix II heating circulators are designed for temperature controlling external systems. The bath opening also enables the immersion of samples within the circulator bath. All units have a stainless steel bath and can be used up to 280°C. The powerful pump guaran-tees a good heat exchange and optimum temperature accuracy.

**Innovative**
The pump automatically adapts itself to the viscosity of the bath liquid used due to the automatic speed recognition function. This guarantees constant pressure and flow rate conditions over a wide temperature range.




**P1-B5 / P2-B5**
Compact heating circulators with a 5-liter bath, ideal for temperature controlling small open or closed systems with short heating up times and thus quick reaction times.




**P1-B7 / P2-B7**
Slim-line heating circulators with a deep 7-liter bath for temperature controlling open and closed sys-tems; high temperature accuracy for medium-size external systems.




**P1-B12 / P2-B12**
Heating circulators with a 12-liter bath suitable for external systems with high volume variations; use as open-bath circulator also possible due to the large bath opening.

| Technical specification acc. to DIN 12876 | | P1-B5 | P2-B5 | P1-B7 | P2-B7 |
|---|---|---|---|---|---|
| Working temperature range | °C | 32...250 | 32...280 | 30...250 | 30...280 |
| with tap water cooling | °C | 20...250 | 20...280 | 20...250 | 20...280 |
| with other cooling | °C | -60...250 | -60...280 | -60...250 | -60...280 |
| Temperature accuracy | +/- K | 0.01 | 0.01 | 0.01 | 0.01 |
| Heater capacity 230V / 115V | kW | 2.0/1.2 | 3.0/1.2 | 2.0/1.2 | 3.0/1.2 |
| Pump: Pressure max.<br>Flow rate max.<br>Suction max.<br>Flow rate max. | mbar<br>l/min<br>mbar<br>l/min | 560<br>24<br>380<br>22 | 560<br>24<br>380<br>22 | 560<br>24<br>380<br>22 | 560<br>24<br>380<br>22 |
| Bath opening WxLxD | cm | 14x14.5x15 | 14x14.5x15 | 13x10x20 | 13x10x20 |
| Bath volume max. | l | 4.5 | 4.5 | 7 | 7 |
| Overall dimensions WxLxH | cm | 24x38x44 | 24x38x44 | 25x38x50 | 25x38x50 |
| Total wattage 230V / 115V | VA | 2100/1250 | 3100/1250 | 2100/1250 | 3100/1250 |
| Net weight | kg | 10.2 | 10.2 | 11.8 | 11.8 |
| Order-No. for 230V / 50-60Hz<br>Order-No. for 115V / 60Hz | | 440-0051<br>440-0052 | 441-0051<br>441-0052 | 440-0071<br>440-0072 | 441-0071<br>441-0072 |
| **ExtraPlus-Rating (see page 35)** | | + + + + + | + + + + + + | + + + + + | + + + + + + |



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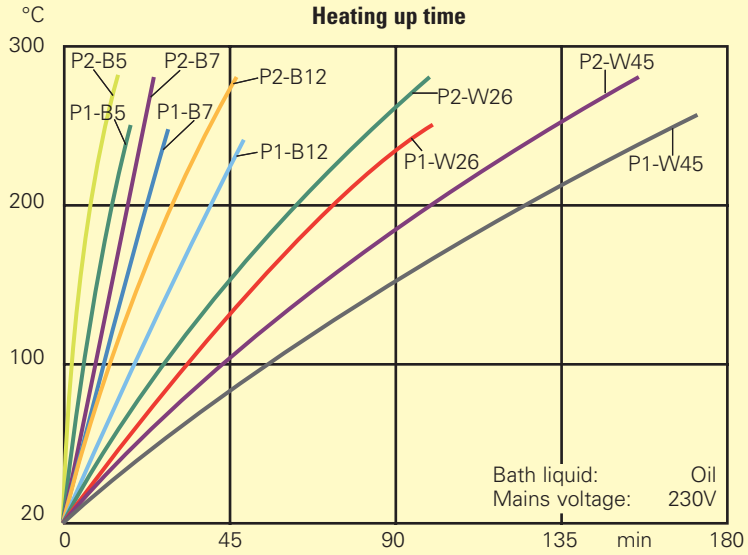
**P1-W26 / P2-W26**
Combined open-bath and heating circulators with a 42-liter bath. Extra deep bath (300 mm) for large objects,simultaneous temperature control of external systems.



**P1-W45 / P2-W45**
Combined open-bath and heating circulators with a 26-liter bath.Large bath opening for direct temperature control of objects, simultaneous temperature control of external systems.



**Additional pump**
If the capacity of the integrated circulator pump would not be high enough for temperature controlling an external system, this booster pump can provide up to 3 bar pressure.




| | P1-B12 | P2-B12 | P1-W26 | P2-W26 | P1-W45 | P2-W45 |
|---|---|---|---|---|---|---|
| | 28...250 | 28...280 | 28...250 | 28...280 | 28...250 | 28...280 |
| | 20...250 | 20...280 | 20...250 | 20...280 | 20...250 | 20...280 |
| | -60...250 | -60...280 | -60...250 | -60...280 | -60...250 | -60...280 |
| | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| | 2.0/1.2 | 3.0/1.2 | 2.0/1.2 | 3.0/1.2 | 2.0/1.2 | 3.0/1.2 |
| | 560<br>24<br>380<br>22 | 560<br>24<br>380<br>22 | 560<br>24<br>380<br>22 | 560<br>24<br>380<br>22 | 560<br>24<br>380<br>22 | 560<br>24<br>380<br>22 |
| | 22x14x20 | 22x14x20 | 30x35x20 | 30x35x20 | 30x35x30 | 30x35x30 |
| | 12 | 12 | 26 | 26 | 42 | 42 |
| | 34x38x50 | 34x38x50 | 35x54x44 | 35x54x44 | 36x54x55 | 36x54x55 |
| | 2100/1250 | 3100/1250 | 2100/1250 | 3100/1250 | 2100/1250 | 3100/1250 |
| | 13 | 13 | 11 | 11 | 19 | 19 |
| | 440-0121<br>440-0122 | 441-0121<br>441-0122 | 440-0261<br>440-0262 | 441-0261<br>441-0262 | 440-0451<br>440-0452 | 441-0451<br>441-0452 |
| | +++++ | ++++++ | +++++ | ++++++ | +++++ | ++++++ |

| Comes with |
|---|
| Each 2 **nozzles** for tubings with 8 and 12 mm i. Ø |
| **Bath cover** for B5, B7, B12 |
| **Tap water cooling coil** for B5, B7, B12 |

| Optional accessories | Order-No. |
|---|---|
| **Tap water cooling coil** for baths W26 und W45 | **333-0677** |
| Universal **hose nozzle** for tubing of 3 bis 6 mm i. Ø | **001-3718** |
| Reservoir **drain** | **333-0499** |
| **Bath cover made from stainless steel** (fits 2 x onto W45) | **333-0648** |
| **Bath cover made from stainless steel** (fits 2 x onto W26) | **333-0225** |
| **External analog box** | **333-0685** |
| **230V Power supply** for analog box | **333-0705** |
| **Software ThermStar95plus** | (s. P. 32) |
| **Tubing and bath liquids** | (s. P. 30-31) |
| **Pt100 sensors** | (s. P. 33) |
| **Additional heater** B7 bath | **333-0741** |
| **Additional heater** B12 cooling | **333-0743** |
| **Solenoid valve control** for tap water cooling | **333-0744** |
| **Additional pump** | **333-0746** |
| **Profibus interface** | on request |



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