Thermostatic Heads
For all thermostatic valve bodies and radiators with integrated valves

Engineering GREAT Solutions
Thermostatic heads

Thermostatic heads are used to control the temperature of individual rooms using, for example, heaters, convectors, and radiators. Our thermostatic heads come available with built in sensors or remote sensors, anti-theft mechanisms and positive shut-off functions. All feature our incompressible liquid-filled sensor and guarantee reliable and precise control. Also thermostatic heads with direct connection for valve bodies from other manufacturers are available.

Table of contents

Thermostatic head K with built-in sensor
standard
with zero position
with anti-theft ring (public building applications)
with anti-theft device comprised of two screws for public indoor swimming pools and medical spas
with anti-theft ring and staggered setting range (public building applications)

Thermostatic head K with remote sensor
standard
with zero position
with anti-theft ring (public building applications)
with anti-theft device comprised of two screws for public indoor swimming pools and medical spas

Thermostatic head DX

Thermostatic head D

Thermostatic head B public building model

Thermostatic head F
remote dial with built-in sensor
remote dial with remote sensor (central adjuster)

Thermostatic head VDX for radiators with integrated valves

Thermostatic head VK angle form for radiators with integrated valves

Thermostatic head VK with clamp connecting for radiators with integrated valves
standard
with zero position
with anti-theft device comprised of two screws

Thermostatic heads with direct connection for valve bodies from other manufacturers
for Danfoss RA thermostatic valve bodies
for Danfoss RAV thermostatic valve bodies
for Danfoss RAVL thermostatic valve bodies
for Danfoss RTD thermostatic valve bodies
for Vaillant thermostatic valve bodies
for Herz M28x1,5 thermostatic valve bodies
for TA M28x1,5 thermostatic valve bodies

Accessories

Dimensional data sheets

List of the KEYMARK certified thermostatic heads and valve bodies
Key features - Thermostatic head K

> With 2 clips for marking, limiting or blocking
> Symbols for basic setting and nighttime set back
> Brief data including the most important settings
> Rotation direction indicator
> Markings designed for the visually impaired

Description

IMI HEIMEIER thermostatic heads are control units for controlling the temperature in individual rooms and are available in various models.

For models with a built-in sensor (see illustration), the actuator, controller, and sensor form a single unit which is the thermostat. This is filled with an incompressible liquid and has high pressure power.

For thermostatic heads with remote sensors, the main part of the temperature-sensitive liquid is not found in the head itself, but rather in the remote sensor. From there the liquid acts on the corrugated pipe in the head via the capillary tube.

For remote dials, the thermostatic head is separated from the valve body and acts on the corrugated pipe in the valve connecting piece via the capillary tube.

Central adjusters are remote dials with additional remote sensors.

The groove on the face of the thermostatic heads K, VK, WK and F serves to take up “color clips” or specially printed “partner clips”.

Construction

Thermolux K thermostatic valve

KEYMARK certified and tested in accordance with DIN EN 215, see also last page

1. Corrugated pipe
2. Markings designed for the visually impaired
3. IMI Heimeier connection technology (locking ring M30 x 1.5)
4. Liquid-filled thermostat with high pressure power and precision control
5. Safety spring
6. Hidden stops for variable limiting and blocking
Application

IMI HEIMEIER thermostatic heads are used to control the temperature of individual rooms using, for example, heaters, convectors, and radiators.

They are designed to be mounted on all IMI HEIMEIER thermostatic valve bodies and on radiators with integrated valves which have an M 30 x 1.5 connecting thread on the thermostatic insert. Adapters and models with direct connections enable mounting onto thermostatic valve bodies from other manufacturers.

The thermostatic heads use the energy of internal and external heat sources including solar heat, the heat radiated from people and electrical devices, and other sources, in order to keep the room air temperature constant. This helps to avoid wasting energy.

Thermostatic heads with built-in sensors may not be covered by curtains, radiator facings, or other obstructions, or mounted vertically or in tight niches. Otherwise it will not be possible to precisely control the temperature.

In other cases, it may be necessary to install a remote sensor or remote dial.

Notes on installation

Correct
Circulation of air around the thermostatic head is not hindered.

Correct
The remote sensor enables an unhindered reading of the air temperature in the room.

Incorrect
The thermostatic head with built-in sensor may not be mounted vertically.

Incorrect
The thermostatic head with built-in sensor may not be covered by curtains.

Underfloor convector

Built-in cabinet
**Function**

In terms of controls, thermostatic heads are seen as continuous proportional controllers (P controllers) that require no auxiliary energy. They do not need an electrical connection or other source of energy. Changes in room air temperature are proportional to changes in the valve stroke.

If the temperature of the air in the room increases due to sunshine, for example, the liquid in the temperature sensor expands and affects the corrugated pipe. This chokes the water supply to the radiator via the valve spindle. If the temperature in the room decreases, the opposite process occurs. The change in valve stroke caused by a change in temperature can be quantified as 0.22 mm per K room temperature change.

**Operation**

**Recommended room temperatures**

The following temperature settings are recommended for the corresponding rooms based on heating with cost savings in mind:

<table>
<thead>
<tr>
<th>Setting/Position</th>
<th>Room temperature approx.</th>
<th>Recommended for e.g.</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>28 °C</td>
<td>Swimming pool*</td>
</tr>
<tr>
<td>24 °C</td>
<td></td>
<td>Bathroom</td>
</tr>
<tr>
<td>22 °C</td>
<td></td>
<td>Work room or children’s bedroom</td>
</tr>
<tr>
<td>20 °C</td>
<td></td>
<td>Living or dining rooms (basic setting)</td>
</tr>
<tr>
<td>18 °C</td>
<td></td>
<td>Kitchen, corridor</td>
</tr>
<tr>
<td>16 °C</td>
<td></td>
<td>Hobby room, bedroom</td>
</tr>
<tr>
<td>14 °C</td>
<td></td>
<td>All rooms at night (nighttime reduction)</td>
</tr>
<tr>
<td>12 °C</td>
<td></td>
<td>Stairway, vestibule</td>
</tr>
<tr>
<td>6 °C*</td>
<td></td>
<td>Basement/cellars (frost protection setting)</td>
</tr>
</tbody>
</table>

*) If higher temperatures are required for the swimming pool area, special thermostatic heads are available (15 °C (59 °F) to 35 °C (95 °F) setting range).

**) For thermostatic heads with an auxiliary zero position, the lowest setting is 0 °C (32 °F).

**Setting the temperature**

The desired room temperature can be selected by turning the thermostatic head (right = cooler, left = warmer). The arrow must be pointing to the appropriate setting position (number, bar, symbol).

All IMI HEIMEIER thermostatic heads are adjusted in a climatic chamber, free of external influences such as heat build-up, sunshine, etc. The number 3 corresponds to a temperature of approximately 20 °C (68 °F). The difference between each number is approximately 4 °C (7 °F) (thermostatic head B approx. 3 °C (5 °F), from bar to bar approx. 1 °C (2 °F). We recommend setting at the number 3 which corresponds to the basic setting of about 20 °C (68 °F) room temperature. Settings above 4 should be avoided if a lower setting satisfies the comfort level, as a 1 °C (2 °F) higher room temperature corresponds to an increase in energy use of around 6 %.

The K thermostatic head is also available with a limited setting range (Article no. 6120-...500). The lowest setting at 1 corresponds to a temperature of about 6 °C (43 °F) and serves as the frost protection setting. The difference between this and the next number 2 is about 2 °C (4 °F) and to the next number around 4 °C (7 °F). This means that the number 3 corresponds to a temperature of approximately 12 °C (54 °F). The highest setting is configured in 1 °C (2 °F) steps between 15 °C (59 °F) and 25 °C (77 °F). This is achieved by turning the thermostatic head to the left, up until it stops.
Thermostatic head K - with built-in sensor

**Technical description**
Liquid-filled thermostat. High pressure power, lowest hysteresis, optimal closing time.
Stable control behavior even in the case of small calculated p-band variation (<1K).
Meet all requirements of the German EnEV and DIN V 4701-10.
Markings indicate upper and lower temperature range; two energy saving clips can be used to limit settings.
Temperature range is limited on both ends and can be blocked using covered stop clips.
Setting indicators on the face of the head and markings designed for the visually impaired. Rotation direction indicator.
Symbols for basic setting and nighttime reduction.
Brief data including the most important settings.
White cover RAL 9016 printed with scale.
Designed to be mounted on all IMI Heimeier thermostatic bodies and radiators with integrated valves which have an M 30 x 1.5 thermostatic insert. Refer also to the assembly and operating instructions.

**E-Pro time adaptor** for time-dependent room temperature control without timeconsuming programming, see accessories.

**Technical data**

- Valve stroke limiter
- Setting numbers 1 to 5
- Frost protection
- Max. sensor temperature 50°C (122°F)
- Hysteresis 0.15 K
- Water temperature influence 0.35 K
- Differential pressure influence 0.2 K
- Closing time 19 min

**Articles**

<table>
<thead>
<tr>
<th>Model</th>
<th>Setting range</th>
<th>EAN</th>
<th>Article No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Setting numbers 1 to 5</td>
<td>6 °C – 28 °C</td>
<td>4024052248711</td>
<td>6000-00.500</td>
</tr>
<tr>
<td>With two economy clips</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Setting scale with temperature values</td>
<td>6 °C – 28 °C</td>
<td>4024052561612</td>
<td>6000-00.600</td>
</tr>
<tr>
<td>With two economy clips</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Setting numbers 1 to 5</td>
<td>6 °C – 28 °C</td>
<td>4024052463923</td>
<td>6000-00.501</td>
</tr>
<tr>
<td>Cap with graduation chrome</td>
<td>6 °C – 28 °C</td>
<td>4024052464029</td>
<td>6000-00.503</td>
</tr>
<tr>
<td>Cap with graduation RAL 7016, anthracite grey</td>
<td>6 °C – 28 °C</td>
<td>4024052464128</td>
<td>6000-00.504</td>
</tr>
<tr>
<td>Cap with graduation RAL 7035, light grey</td>
<td>6 °C – 28 °C</td>
<td>4024052464227</td>
<td>6000-00.505</td>
</tr>
<tr>
<td>Cap with graduation RAL 7037, dust grey</td>
<td>6 °C – 28 °C</td>
<td>4024052524020</td>
<td>6000-00.507</td>
</tr>
<tr>
<td>Cap with graduation RAL 9005, jet black</td>
<td>6 °C – 28 °C</td>
<td>402405277117</td>
<td>7000-00.500</td>
</tr>
<tr>
<td>With zero position (valve opens at approx. 0 °C or 32 °F)</td>
<td>0 °C – 28 °C</td>
<td>4024052248711</td>
<td>6000-00.500</td>
</tr>
<tr>
<td>Setting numbers 1 to 5, With two economy clips</td>
<td>0 °C – 28 °C</td>
<td>402405277117</td>
<td>7000-00.500</td>
</tr>
</tbody>
</table>
Public buildings model
Theft protection using security ring. Increased strength in accordance with former German army certification TL 4520-0014 Stress group 1 (for highest stress). With two economy clips.

<table>
<thead>
<tr>
<th>Model</th>
<th>Setting range</th>
<th>EAN</th>
<th>Article No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>6 °C – 28 °C</td>
<td>4024052264711</td>
<td>6020-00.500</td>
</tr>
<tr>
<td>With zero position</td>
<td>0 °C – 28 °C</td>
<td>4024052278213</td>
<td>7020-00.500</td>
</tr>
</tbody>
</table>

With theft protection using 2 screws
Setting numbers 1 to 5. With two economy clips.

<table>
<thead>
<tr>
<th>Setting range</th>
<th>EAN</th>
<th>Article No</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 °C – 28 °C</td>
<td>4024052266517</td>
<td>6040-00.500</td>
</tr>
</tbody>
</table>

For public indoor swimming pools, medical spas
Setting numbers 1 to 5. With two economy clips.

<table>
<thead>
<tr>
<th>Setting range</th>
<th>EAN</th>
<th>Article No</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 °C – 35 °C</td>
<td>4024052273515</td>
<td>6200-00.500</td>
</tr>
</tbody>
</table>

Public buildings model. Theft protection using security ring. Staggered/limited setting range.
Setting number based on setting range 1-3/1-4/1-5. Turn all the way left for highest setting. Increased strength in accordance with former German army certification TL 4520-0014.

<table>
<thead>
<tr>
<th>Setting range</th>
<th>Article No</th>
</tr>
</thead>
<tbody>
<tr>
<td>lowest setting 6°C (43 °F), upper setting in 1°C (2 °F) increments between 15°C (59 °F) to 25°C (77 °F)</td>
<td>6120-...500°</td>
</tr>
</tbody>
</table>

*) When ordering indicate upper value, e.g. enter 20 for 20°C (68°F).
Thermostatic head K - with remote sensor

Technical description
Liquid-filled thermostat. High pressure power, lowest hysteresis, optimal closing time. Stable control behavior even in the case of small calculated p-band variation (<1K). Meet all requirements of the German EnEV and DIN V 4701-10. Markings indicate upper and lower temperature range; two energy saving clips can be used to limit settings. Temperature range is limited on both ends and can be blocked using covered stop clips. Setting indicators on the face of the head and markings designed for the visually impaired. Rotation direction indicator. Symbols for basic setting and nighttime reduction. Brief data including the most important settings. Capillary tube coil for unused capillary tube. White cover RAL 9016 printed with scale. Designed to be mounted on all IMI HEIMEIER thermostatic bodies and radiators with integrated valves which have an M 30 x 1.5 thermostatic insert. Refer also to the assembly and operating instructions. Special models can be designed upon request.

E-Pro time adaptor for time-dependent room temperature control without timeconsuming programming, see accessories.

Technical data
Valve stroke limiter
Setting numbers 1 to 5
Frost protection
Max. sensor temperature 50 °C (122 °F)
Hysteresis 0.2 K
Water temperature influence 0.3 K
Differential pressure influence 0.3 K
Closing time 12 min (horizontal sensor)
Closing time 15 min (vertical sensor)

Articles

<table>
<thead>
<tr>
<th>Model</th>
<th>Setting range</th>
<th>Capillary tube length [m]</th>
<th>EAN</th>
<th>Article No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Setting numbers 1 to 5</td>
<td>6 °C – 27 °C</td>
<td>1.25 (4.1 ft)</td>
<td>4024052259816</td>
<td>6001-00.500</td>
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<tr>
<td>With two economy clips.</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2.00 (6.6 ft)</td>
<td>4024052260515</td>
<td>6002-00.500</td>
<td></td>
</tr>
<tr>
<td>Cap with graduation</td>
<td>RAL 7024, graphit grey</td>
<td>2.00</td>
<td>4024052538055</td>
<td>6002-00.503</td>
</tr>
<tr>
<td>Cap with graduation</td>
<td>RAL 9005, jet black</td>
<td>2.00</td>
<td>4024052556717</td>
<td>6002-00.507</td>
</tr>
<tr>
<td></td>
<td>5.00 (16.4 ft)</td>
<td>4024052262212</td>
<td>6005-00.500</td>
<td></td>
</tr>
<tr>
<td></td>
<td>8.00 (26.25 ft)</td>
<td>4024052263011</td>
<td>6008-00.500</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10.00 (32.81 ft)</td>
<td>4024052263417</td>
<td>6010-00.500</td>
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</tr>
<tr>
<td>Standard</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Setting scale with temperature values</td>
<td>6 °C – 28 °C</td>
<td>1.25</td>
<td>4024052561717</td>
<td>6001-00.600</td>
</tr>
<tr>
<td>With two economy clips.</td>
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<td></td>
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<td></td>
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<tr>
<td></td>
<td>2.00</td>
<td>4024052561810</td>
<td>6002-00.600</td>
<td></td>
</tr>
</tbody>
</table>

With zero position (valve opens at approx. 0 °C or 32 °F)
Setting numbers 1 to 5.
With two economy clips.

6 °C – 28 °C | 2.00 (6.6 ft) | 4024052277810 | 7002-00.500 |
### Public buildings model
Theft protection using security ring. Setting numbers 1 to 5. With two economy clips.

<table>
<thead>
<tr>
<th>Setting range</th>
<th>Capillary tube length [m]</th>
<th>EAN</th>
<th>Article No</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 °C – 27 °C</td>
<td>2.00</td>
<td>4024052265114</td>
<td>6022-00.500</td>
</tr>
</tbody>
</table>

### With theft protection using 2 screws
Setting numbers 1 to 5. With two economy clips

<table>
<thead>
<tr>
<th>Setting range</th>
<th>Capillary tube length [m]</th>
<th>EAN</th>
<th>Article No</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 °C – 27 °C</td>
<td>2.00</td>
<td>4024052267217</td>
<td>6042-00.500</td>
</tr>
</tbody>
</table>

### For public indoor swimming pools, medical spas
Setting numbers 1 to 5. With two economy clips

<table>
<thead>
<tr>
<th>Setting range</th>
<th>Capillary tube length [m]</th>
<th>EAN</th>
<th>Article No</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 °C – 35 °C</td>
<td>2.00</td>
<td>4024052273911</td>
<td>6202-00.500</td>
</tr>
</tbody>
</table>
Thermostatic head DX - with built-in sensor

Technical description
Liquid-filled thermostat.
High pressure power, lowest hysteresis, optimal closing time.
Stable control behavior even in the case of small calculated p-band variation (<1K).
Meet all requirements of the German EnEV and DIN V 4701-10.
Reduced size in length and diameter.
White cover RAL 9016 printed with scale.
Designed to be mounted on all IMI HEIMEIER thermostatic bodies and radiators with integrated valves which have an M 30 x 1.5 thermostatic insert.
Refer also to the assembly and operating instructions.

**E-Pro time adaptor** for time-dependent room temperature control without timeconsuming programming, see accessories.

Technical data

Setting range 6 °C to 28 °C (43 °F to 82 °F)
Valve stroke limiter
Setting numbers 1 to 5
Frost protection 6 °C (43 °F)
Max. sensor temperature 50 °C (122 °F)
Hysteresis 0.4 K
Water temperature influence 0.7 K
Differential pressure influence 0.3 K
Closing time 24 min

Articles

<table>
<thead>
<tr>
<th>Thermostatic head DX</th>
<th>EAN</th>
<th>Article No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cap with graduation RAL 9016, white</td>
<td>4024052494026</td>
<td>6700-00.500</td>
</tr>
<tr>
<td>Cap with graduation chrome</td>
<td>4024052494125</td>
<td>6700-00.501</td>
</tr>
<tr>
<td>Cap with graduation RAL 7024, graphite grey</td>
<td>4024052494224</td>
<td>6700-00.503</td>
</tr>
<tr>
<td>Cap with graduation RAL 7035, light grey</td>
<td>4024052494323</td>
<td>6700-00.504</td>
</tr>
<tr>
<td>Cap with graduation RAL 7037, dust grey</td>
<td>4024052494422</td>
<td>6700-00.505</td>
</tr>
<tr>
<td>Cap with graduation RAL 9005, jet black</td>
<td>4024052494510</td>
<td>6700-00.507</td>
</tr>
<tr>
<td>Cap with graduation pergamon</td>
<td>4024052494621</td>
<td>6700-00.506</td>
</tr>
</tbody>
</table>
Thermostatic head D - with built-in sensor

Technical description
Liquid-filled thermostat.
High pressure power, lowest hysteresis, optimal closing time.
Stable control behavior even in the case of small calculated p-band variation (<1K).
Meet all requirements of the German EnEV and DIN V 4701-10.
With rotation direction indicator.
Reduced size in length and diameter.
White cover RAL 9016 printed with scale.
Designed to be mounted on all IMI HEIMEIER thermostatic bodies and radiators with integrated valves which have an M 30 x 1.5 thermostatic insert.
Refer also to the assembly and operating instructions.
E-Pro time adaptor for time-dependent room temperature control without timeconsuming programming, see accessories.

Technical data
Setting range 6 °C to 28 °C (43 °F to 82 °F)
Valve stroke limiter
Setting numbers 1 to 5
Frost protection 6 °C (43 °F)
Max. sensor temperature 50 °C (122 °F)
Hysteresis 0.3 K
Water temperature influence 0.7 K
Differential pressure influence 0.3 K
Closing time 24 min

Articles

<table>
<thead>
<tr>
<th>EAN</th>
<th>Article No</th>
</tr>
</thead>
<tbody>
<tr>
<td>4024052306824</td>
<td>6850-00.500</td>
</tr>
</tbody>
</table>
Thermostatic head B - for public buildings

Technical description
Secured model designed for public buildings.
Liquid-filled thermostat.
High pressure power, lowest hysteresis, optimal closing time.
Stable control behavior even in the case of small calculated p-band variation (<1K).
Meet all requirements of the German EnEV and DIN V 4701-10.
Infinitely variable temperature setting using a special key without having to remove the protection cap.
Protection cap can be turned endlessly.
Protected against theft.
Flexural strength of the thermostatic head min. 1000 N.
White protection cap RAL 9016.
Designed to be mounted on all IMI HEIMEIER thermostatic bodies and radiators with integrated valves which have an M 30 x 1.5 thermostatic insert.
Refer also to the assembly and operating instructions.
Special models upon request.

Technical data
Setting range 8 °C to 26 °C (46 °F to 79 °F)
Valve stroke limiter
Setting numbers 1 to 5
Frost protection 8 °C (46 °F)
Max. sensor temperature 50 °C (122 °F)
Hysteresis 0.2 K
Water temperature influence 0.9 K
Differential pressure influence 0.3 K
Closing time 24 min

Articles

Thermostatic head B
For public buildings

<table>
<thead>
<tr>
<th>EAN</th>
<th>Article No</th>
</tr>
</thead>
<tbody>
<tr>
<td>4024052188512</td>
<td>2500-00.500</td>
</tr>
</tbody>
</table>
**Thermostatic head F - Remote dial**

**Technical description**
Liquid-filled thermostat.
High pressure power, lowest hysteresis, optimal closing time.
Stable control behavior even in the case of small calculated p-band variation (<1K).
Meet all requirements of the German EnEV and DIN V 4701-10.
Temperature range is limited on both ends and can be blocked using covered stop clips.
Setting indicators on the face of the head.
Rotation direction indicator.
Symbols for basic setting and nighttime reduction.
Brief data including the most important settings.
May be installed at an outlet box.
White cap RAL 9016 printed with scale.
Connection piece designed to be mounted on all IMI HEIMEIER thermostatic bodies and radiators with integrated valves which have an M 30 x 1.5 thermostatic insert.
Refer also to the assembly and operating instructions.
Special models upon request.

**Technical data**

Valve stroke limiter
Setting numbers 1 to 5
Frost protection
With zero position (valve opens at approx. 0 °C or 32 °F)
Max. sensor temperature 50 °C (122 °F)
Hysteresis 0.4 K
Water temperature influence 0.3 K
Differential pressure influence 0.4 K
Closing time 26 min.

**Articles**

**Thermostatic head F**
Remote dial with built-in sensor.

<table>
<thead>
<tr>
<th>Setting range</th>
<th>Capillary tube length [m]</th>
<th>EAN</th>
<th>Article No</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 °C – 27 °C</td>
<td>2,00 (6.56 ft)</td>
<td>4024052191017</td>
<td>2802-00.500</td>
</tr>
<tr>
<td>5,00</td>
<td>(16.4 ft)</td>
<td>4024052191819</td>
<td>2805-00.500</td>
</tr>
<tr>
<td>8,00</td>
<td>(26.25 ft)</td>
<td>4024052192410</td>
<td>2808-00.500</td>
</tr>
<tr>
<td>10,00</td>
<td>(32.81 ft)</td>
<td>4024052192717</td>
<td>2810-00.500</td>
</tr>
<tr>
<td>15,00</td>
<td>(49.21 ft)</td>
<td>4024052193219</td>
<td>2815-00.500</td>
</tr>
</tbody>
</table>

**Thermostatic head F**
Remote dial with remote sensor. Central adjuster.

<table>
<thead>
<tr>
<th>Setting range</th>
<th>Capillary tube length [m]</th>
<th>EAN</th>
<th>Article No</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 °C – 27 °C</td>
<td>2 x 1,50 (2 x 4.92 ft)</td>
<td>4024052193615</td>
<td>2881-00.500</td>
</tr>
</tbody>
</table>
Thermostatic head VDX - for radiators with integrated valves

Technical description
The thermostatic head VDX combines perfected technology with contemporary design. It has been specially designed for installation on radiators with integrated valves with M 30 x 1.5 connecting threads on the thermostatic insert. Its new construction blends harmoniously with the radiator, creating a single integrated unit. Liquid-filled thermostat. High pressure power, lowest hysteresis, optimal closing time. Stable control behavior even in the case of small calculated p-band variation (<1K). Meet all requirements of the German EnEV and DIN V 4701-10. White printed cap and trim RAL 9016. Refer also to the assembly and operating instructions.

Technical data
Setting range 6 °C to 28 °C (43 °F to 82 °F)
Valve stroke limiter
Setting numbers 1 to 5
Frost protection
Max. sensor temperature 50 °C (122 °F)

Application
The thermostatic head VDX fits, for example, on the following radiators with integrated valves:
Alarko
Biasi
Caradon Stelrad
Cetra
Concept
DEF
Demrad
DiaNorm
Dia-therm
Dunafer
DURA
Ferrol
Fitimaetal
Hagetec
Henrad
HM Helzkörper
Kermi
Korado
Manaut
Purmo
Radson
Rettig
Superia
Terro Teknik
VSZ
Zenith

Date: 09.14
Technical changes made by the radiator manufacturer must be taken into account. Depending on the particular construction, the width of the side trim needs to be considered for type 11 radiators.

Articles
Thermostatic head VDX
with M30x1.5 connection for radiators with integrated valves.

<table>
<thead>
<tr>
<th>EAN</th>
<th>Article No</th>
</tr>
</thead>
<tbody>
<tr>
<td>4024052575411</td>
<td>6740-00.500</td>
</tr>
</tbody>
</table>
Thermostatic head WK - Angled form for radiators with integrated valves

Technical description
The thermostatic head WK has been designed for radiators with integrated valves which have a thermostatic insert with an M 30 x 1.5 connecting thread. The thermostatic head WK can be turned around for mounting on the left or right of the radiator. This allows you to use a single model for either mounting position.

Liquid-filled thermostat. High pressure power, lowest hysteresis, optimal closing time. Stable control behavior even in the case of small calculated p-band variation (<1K). Meet all requirements of the German EnEV and DIN V 4701-10. Markings indicate upper and lower temperature range; two energy saving clips can be used to limit settings.

Setting indicators on the face of the head and markings designed for the visually impaired. Rotation direction indicator.

Brief data including the most important settings.

White cap RAL 9016 printed with scale.

Refer also to the assembly and operating instructions.

Technical data
Setting range 6 °C to 28 °C (43 °F to 82 °F)
Valve stroke limiter
Setting numbers 1 to 5
Frost protection
Max. sensor temperature 50 °C (122 °F).

Application
The IMI HEIMEIER thermostatic head WK fits, for example, on the following radiators with integrated valves:

<table>
<thead>
<tr>
<th>Alarko</th>
<th>Dunaferr</th>
<th>Prolux</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arbonia</td>
<td>DURA</td>
<td>Purmo</td>
</tr>
<tr>
<td>Biasi</td>
<td>Ferrol</td>
<td>Radson</td>
</tr>
<tr>
<td>Caradon Stelrad</td>
<td>Finimetal</td>
<td>Rentig</td>
</tr>
<tr>
<td>Cetra</td>
<td>Hagetec</td>
<td>Superia</td>
</tr>
<tr>
<td>Concept</td>
<td>Henrad</td>
<td>Termo Teknik</td>
</tr>
<tr>
<td>Demrad</td>
<td>HMI Heizkörper</td>
<td>VSZ</td>
</tr>
<tr>
<td>DiaNorm</td>
<td>Kermi</td>
<td>Zehnder</td>
</tr>
<tr>
<td>Dia-therm</td>
<td>Korado</td>
<td>Zenith</td>
</tr>
<tr>
<td>DEF</td>
<td>Manaut</td>
<td></td>
</tr>
</tbody>
</table>

Date: 09.14
Technical changes made by the radiator manufacturer must be taken into account.
It is not permitted to use adapters for mounting onto thermostatic inserts that do not have an M 30 x 1.5 connecting thread.

Articles

<table>
<thead>
<tr>
<th>Thermostatic head WK</th>
<th>Angle form with M 30 x 1.5 connection for radiators with integrated valves.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAN</td>
<td>4024052278718</td>
</tr>
<tr>
<td>Article No</td>
<td>7300-00.500</td>
</tr>
</tbody>
</table>
Thermostatic head VK - with clamp connection for radiators with integrated valves

Technical description
The thermostatic head VK has been designed to be mounted on radiators with integrated valves. The clamp connection with locking ring enables a direct connection to thermostatic inserts which do not have an M 30 x 1.5 connecting thread. The thermostatic head VK can be mounted in several different positions, each at 90°. Liquid-filled thermostat. High pressure power, lowest hysteresis, optimal closing time. Stable control behavior even in the case of small calculated p-band variation (<1K). Meet all requirements of the German EnEV and DIN V 4701-10. Markings indicate upper and lower temperature range; two energy saving clips can be used to limit settings. Temperature range is limited on both ends and can be blocked using covered stop clips. Setting indicators on the face of the head and markings designed for the visually impaired. Rotation direction indicator. Symbols for basic setting and nighttime set-back. Brief data including the most important settings. White cap RAL 9016 printed with scale. Refer also to the assembly and operating instructions.

Technical data
Setting range 6 °C to 28 °C (43 °F to 82 °F)
Valve stroke limiter
Setting numbers 1 to 5
Frost protection
Max. sensor temperature 50 °C (122 °F)

Application
The thermostatic head VK fits, for example, on the following radiators with integrated valves:
Baufa
Bemm
Brötje
Brugman
Buderus
CICH
De Longhi
Küpper
Myson
Northor
Ocean
Rio
Schäfer
Myson
Thermotechnik
Vogel & Noot

Date: 09.14
Technical changes made by the radiator manufacturer must be taken into account.

Articles

<table>
<thead>
<tr>
<th>Thermostatic head VK</th>
<th>EAN</th>
<th>Article No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>4024052298211</td>
<td>9710-24.500</td>
</tr>
<tr>
<td>with zero position</td>
<td>4024052493029</td>
<td>9711-24.500</td>
</tr>
<tr>
<td>with theft protection</td>
<td>4024052541027</td>
<td>9710-40.500</td>
</tr>
</tbody>
</table>
Thermostatic heads - with direct connection for valve bodies from other manufacturers

Technical description
Thermostatic head with direct connection to thermostatic valve bodies from other manufacturers.
Liquid-filled thermostat.
High pressure power, lowest hysteresis, optimal closing time.
Stable control behavior even in the case of small calculated p-band variation (<1K).
Meet all requirements of the German EnEV and DIN V 4701-10.
Limiting or locking of a setting.
Rotation direction indicator (except thermostatic head DX).
White cover RAL 9016 with printed scale.

Technical data
Setting range 6 °C to 28 °C (43 °F to 82 °F)
Valve stroke limiter
Setting numbers 1 to 5
Frost protection
Max. sensor temperature 50 °C (122 °F)

Articles

Thermostatic head VK / K
With energy saving clip. Thermostatic head VK with 2 energy saving clips.

<table>
<thead>
<tr>
<th>Model</th>
<th>EAN</th>
<th>Article No</th>
</tr>
</thead>
<tbody>
<tr>
<td>For Danfoss RA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VK, standard</td>
<td>4024052298211</td>
<td>9710-24.500</td>
</tr>
<tr>
<td>VK, with zero position</td>
<td>4024052493029</td>
<td>9711-24.500</td>
</tr>
<tr>
<td>VK, with theft protection using 2 screws</td>
<td>4024052541027</td>
<td>9710-40.500</td>
</tr>
<tr>
<td>For Danfoss RAV</td>
<td></td>
<td></td>
</tr>
<tr>
<td>K</td>
<td>4024052300013</td>
<td>9800-24.500</td>
</tr>
<tr>
<td>For Danfoss RAVL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>K</td>
<td>4024052295814</td>
<td>9700-24.500</td>
</tr>
<tr>
<td>For Vaillant</td>
<td></td>
<td></td>
</tr>
<tr>
<td>K, for series from 1987</td>
<td>4024052496822</td>
<td>9712-00.500</td>
</tr>
</tbody>
</table>

Thermostatic head DX

<table>
<thead>
<tr>
<th>Model</th>
<th>EAN</th>
<th>Article No</th>
</tr>
</thead>
<tbody>
<tr>
<td>For Danfoss RA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DX</td>
<td>4024052562510</td>
<td>9724-24.500</td>
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<tr>
<td>For Danfoss RTD</td>
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<td></td>
</tr>
<tr>
<td>DX</td>
<td>4024052564415</td>
<td>9725-24.500</td>
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</table>

Thermostatic head DX

<table>
<thead>
<tr>
<th>Model</th>
<th>EAN</th>
<th>Article No</th>
</tr>
</thead>
<tbody>
<tr>
<td>For TA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>for series until 1999</td>
<td>4024052768912</td>
<td>9724-28.500</td>
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<tr>
<td>For Herz</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4024052769018</td>
<td>9724-30.500</td>
</tr>
</tbody>
</table>
**Accessories**

**E-Pro**
Time adaptor for time-dependent room temperature control.
It is installed between the valve and thermostatic head.
With automatic open window recognition.
Optional daily or weekly program.
Including 2 batteries LR 6 (AA).

**E-Pro Stick**
for transferring a time program created on the PC to the E-Pro.

**E-Pro start package**
1 x E-Pro and 1 x E-Pro Stick

**Theft protection**
for thermostatic heads K, DX, D, WK.
Please also refer to the “Installation and operating instructions" leaflet.

**Connecting to products from other manufacturers**
Adapters for mounting all IMI HEIMEIER thermostatic heads on thermostatic valve bodies from manufacturers listed here.
Standard M 30 x 1.5 threaded connection.
Refer also "Thermostatic head with direct connection to thermostatic valve bodies from other manufacturers."
*) can not be used on radiators with integrated valves

**Connection to radiators with integrated valves**
Adapters for mounting IMI HEIMEIER thermostatic heads with an M 30 x 1.5 connection on thermostatic inserts for clamping connections.
Standard M 30 x 1.5 threaded connection.
Exception: The thermostatic head WK is designed only for mounting on thermostatic inserts with an M 30 x 1.5 threaded connection.
**Spindle extension**
for thermostatic valve bodies

<table>
<thead>
<tr>
<th>L</th>
<th>EAN</th>
<th>Article No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brass nickel-plated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>4024052528813</td>
<td>2201-20.700</td>
</tr>
<tr>
<td>30</td>
<td>4024052529912</td>
<td>2201-30.700</td>
</tr>
<tr>
<td>Plastic, black</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>4024052553310</td>
<td>2001-15.700</td>
</tr>
<tr>
<td>30</td>
<td>4024052165018</td>
<td>2002-30.700</td>
</tr>
</tbody>
</table>

**Capillary tube coil**
for rolling up unused capillary tube

<table>
<thead>
<tr>
<th>EAN</th>
<th>Article No</th>
</tr>
</thead>
<tbody>
<tr>
<td>402405259717</td>
<td>6001-00.315</td>
</tr>
</tbody>
</table>

**Removal device**
for graduation cap of thermostatic head K
and VK and for dismounting stop clips.

Please also refer to the “Installation and operating instructions” leaflet.

<table>
<thead>
<tr>
<th>EAN</th>
<th>Article No</th>
</tr>
</thead>
<tbody>
<tr>
<td>4024052457410</td>
<td>6000-00.138</td>
</tr>
</tbody>
</table>

**Setting key**
for thermostatic head B

Please also refer to the “Installation and operating instructions” leaflet.

<table>
<thead>
<tr>
<th>EAN</th>
<th>Article No</th>
</tr>
</thead>
<tbody>
<tr>
<td>4024052188413</td>
<td>2500-00.253</td>
</tr>
</tbody>
</table>

**Universal key**
alternative to setting key art. no. 2500-00.253 for activating thermostatic head B (temperature setting), also for V-exakt to end of 2011 / F-exakt thermostatic valve bodies, Regulux lockshield, Vekolux double connection fittings, and radiator air vents.

<table>
<thead>
<tr>
<th>EAN</th>
<th>Article No</th>
</tr>
</thead>
<tbody>
<tr>
<td>402405238917</td>
<td>0530-01.433</td>
</tr>
</tbody>
</table>

**Hexagon key**
for thermostatic head B and theft protection with 2 screws on thermostatic head K.
Please also refer to the “Installation and operating instructions” leaflet.

<table>
<thead>
<tr>
<th>Size</th>
<th>EAN</th>
<th>Article No</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>4024052266616</td>
<td>6040-02.256</td>
</tr>
</tbody>
</table>
Dimensions

**Thermostatic head K**
- with built-in sensor

*) setting at 3

**Thermostatic head DX**
- with built-in sensor

*) setting at 3

**Thermostatic head F**
- Remote dial with built-in sensor
- Remote dial with remote sensor (central adjuster)

**Thermostatic head K**
- with remote sensor

*) setting at 3

**Thermostatic head D**
- with built-in sensor

*) setting at 3
Thermostatic head B
Public buildings model with built-in sensor

Thermostatic head WK
Angle form for radiators with integrated valves

Thermostatic head VDX
with M 30 x 1.5 connection for radiators with integrated valves

Thermostatic head VK
with clamp connection for radiators with integrated valves and for Danfoss RA valve bodies

Thermostatic head K
for Danfoss RAV valve bodies

Thermostatic head K
for Danfoss RAVL valve bodies

*) setting at 3
Tête thermostatique K
for Vaillant valve bodies

Thermostatic head DX
with clamp connection for radiators with integrated valves and
for Danfoss RA valve bodies

Thermostatic head DX
for Danfoss RTD valve bodies M 30 x 1,5

Thermostatic head DX
for Herz valve bodies M 28 x 1,5

Thermostatic head DX
for IMI TA valve bodies M 28 x 1,5

*) setting at 3

1 mm = 0,0394 inch
## Thermostatic heads and valve bodies

Certified and tested by KEYMARK in accordance with DIN EN 215 (Series D and F)
KEYMARK symbol approval number 011-6T 0006

### Thermostatic heads

<table>
<thead>
<tr>
<th>Article No</th>
<th>2500-00.500</th>
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<th>6008-00.500</th>
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<th>6001-00.600</th>
<th>6002-00.600</th>
<th>6700-00.500</th>
<th>7000-00.500</th>
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</thead>
</table>

### Thermostatic valve bodies, Series D

<table>
<thead>
<tr>
<th>Article No</th>
<th>DN 10</th>
<th>DN 15</th>
<th>DN 20</th>
</tr>
</thead>
<tbody>
<tr>
<td>2201-01.000</td>
<td>2201-02.000</td>
<td>2201-03.000</td>
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<tr>
<td>2202-01.000</td>
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<td>2202-03.000</td>
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<td>2241-01.000</td>
<td>2241-02.000</td>
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<td>2242-02.000</td>
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<td>3712-01.000</td>
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</tbody>
</table>

### Thermostatic valve bodies, Series F

<table>
<thead>
<tr>
<th>Article No</th>
<th>DN 10</th>
<th>DN 15</th>
<th>DN 20</th>
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</thead>
<tbody>
<tr>
<td>2215-01.000</td>
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<td>2215-03.000</td>
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<td>2216-01.000</td>
<td>2216-02.000</td>
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<td>3716-01.000</td>
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### Thermostatic valve bodies

<table>
<thead>
<tr>
<th>Article No</th>
<th>DN 10</th>
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<tbody>
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<td>3718-15.000</td>
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