IMI HEIMEIER

Thermostatic head B

Thermostatic heads

Secured model designed for public buildings

IMI Hydronic Engineering

Breakthrough Engineering

Thermostatic head B

The thermostatic head B is used for individual room temperature control in public buildings, schools etc. which are used by a large number of members of the public.

Key features

- **Protected against theft**
- **Flexural strength of the thermostatic head min. 1000 N**
- **Infinitely variable temperature setting using a special key without removing the protection cap**
- **Protection cap can be turned endlessly**
- **Liquid-filled thermostat with high pressure power and precision control**

Technical description

Applications area:
Heating systems

Functions:
Room temperature control.
Frost protection.

Control behavior:
Proportional controller without auxilliary energy. 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).

Nominal temperature range:
8 °C - 26 °C (46 °F to 79 °F).
Infinitely variable temperature setting using a special key without having to remove the protection cap.
Protection cap can be turned endlessly.

Temperature:
Max. sensor temperature: 50°C (122°F)

Specific extension:
0.22 mm/K,
Valve stroke limiter

Water temperature influence:
0.9 K

Differential pressure influence:
0.3 K

Closing time:
24 min

Hysteresis:
0.2 K

Material:
PBTGF15, PPO/PAGF20, brass, steel, Liquid-filled thermostat.

Colour:
White RAL 9016

Marking:
Heimeier and KEYMARK symbol.

Standard:
KEYMARK certified and tested according to EN 215. See also leaflet “Thermostatic Heads - General”.

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Connection:
Designed to be mounted on all HEIMEIER thermostatic valve bodies and radiators with integrated valves which have an M30x1.5 thermostatic insert.
Protected against theft.
Flexural strength of the thermostatic head min. 1000 N.

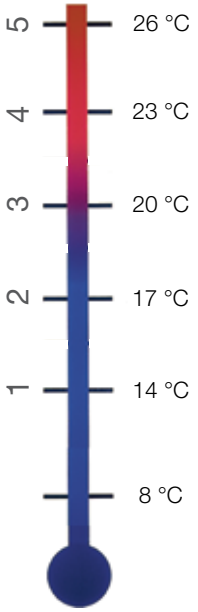
Function

In terms of controls, thermostatic heads are seen as continuous proportional controllers (P controllers) that require no auxilliary 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

The various settings give approximately the following **room temperatures:**

Setting/Position **Room temperature approx.**



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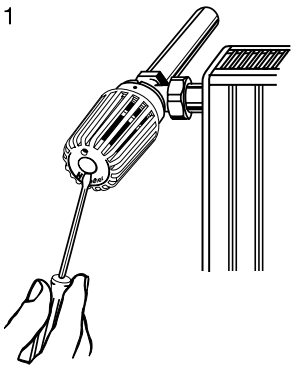

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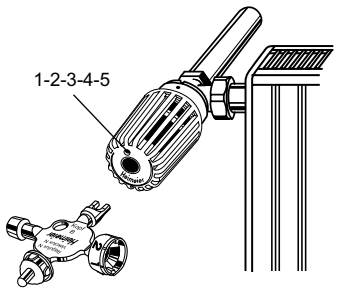
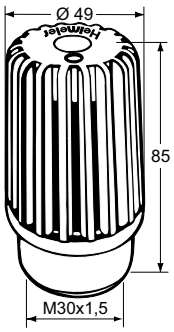


Setting the temperature
Use a small screwdriver to lever out the end plug (1).
Set the required value in the temperature range between 8 °C and 26 °C with the universal key (Item No. 0530-01.433) through the end opening (2).
Introduce the universal key in the central opening and turn the key until the latter will catch or lock. Then adjust the reference value by turning.
The corresponding numbers are shown in the viewing window. Number 3 corresponds to a room temperature of about 20 °C. The difference between the numbers is about 3 °C.
Press the end plug back in until it snaps into position.

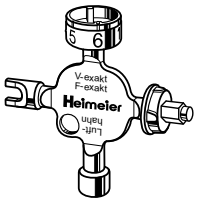
Articles



Thermostatic head B
For public buildings

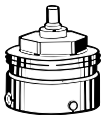
Setting range	EAN	Article No
8°C - 26°C	4024052188512	2500-00.500

Accessories



Universal key
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.

	EAN	Article No
	4024052338917	0530-01.433

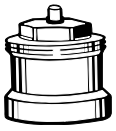


Connecting to products from other manufacturers
Adapters for mounting all HEIMEIER thermostatic heads on thermostatic valve bodies from manufacturers listed here. Standard M 30 x 1.5 threaded connection. Refer also “Thermostatic head with direct connection to thermostatic valve bodies from other manufacturers”.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

Manufacturer	EAN	Article No
Danfoss RA (Ø≈20 mm) *)	4024052297016	9702-24.700
Danfoss RAV (Ø≈34 mm)	4024052300112	9800-24.700
Danfoss RAVL(Ø≈26 mm)	4024052295913	9700-24.700
Vaillant (Ø≈30 mm)	4024052296019	9700-27.700
TA (M28x1,5)	4024052336418	9701-28.700
Herz (M28x1,5)	4024052296316	9700-30.700
Markaryd (M28x1,5)	4024052296514	9700-41.700
Comap (M28x1,5)	4024052296712	9700-55.700
Giacomini (Ø≈22,6 mm)	4024052429714	9700-33.700
Oventrop (M30x1,0)	4024052428519	9700-10.700
Ista (M32x1,0)	4024052511419	9700-36.700

Connection to radiators with integrated valves
Adapters for mounting HEIMEIER thermostatic heads with an M30x1.5 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 M30x1.5 threaded connection.

		EAN	Article No
Series 2	(20 x 1)	4024052297214	9703-24.700
Series 3	(23,5 x 1,5), since 10/98	4024052313518	9704-24.700



Spindle extension
for thermostatic valve bodies.

L	EAN	Article No
Brass nickel-plated		
20	4024052528813	2201-20.700
30	4024052528912	2201-30.700
Plastic, black		
30	4024052165018	2002-30.700

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Made in Germany

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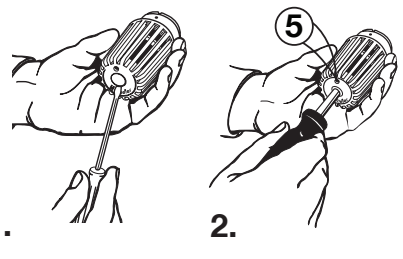

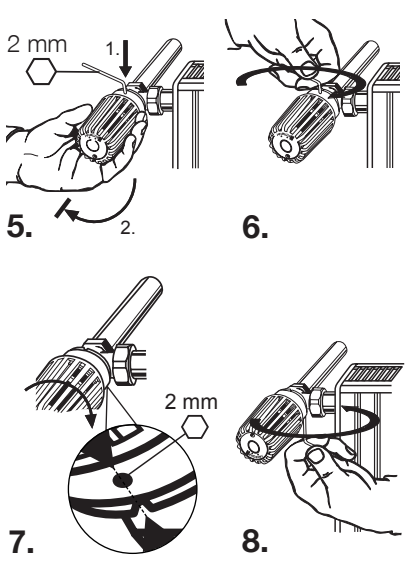

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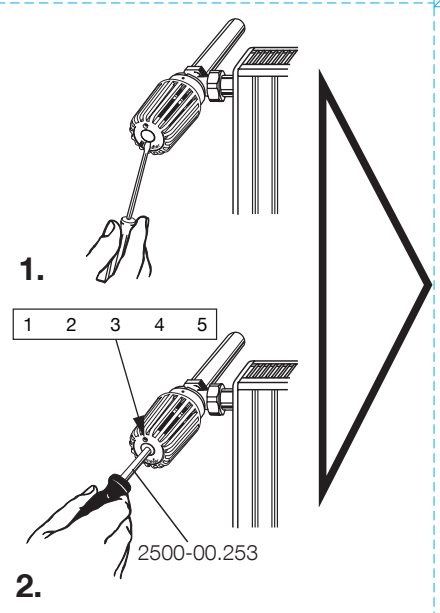

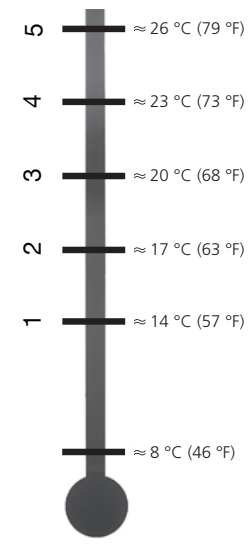

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