

# Thermostatic head F



## Thermostatic Heads

Remote dial

# Thermostatic head F

The thermostatic head F is used to control the temperature of individual rooms using, for example, underfloor-convectors, floor heating distributors and radiators.

## Key features

- > **May be installed at an outlet box**
- > **Liquid-filled thermostat with high pressure power and precision control**
- > **Symbols for basic setting and nighttime set back**
- > **Brief data including the most important settings**
- > **Rotation direction indicator**



## Technical description

### Applications area:

Heating systems

### Functions:

Room temperature control.

With zero position (valve opens at approx. 0 °C or 32 °F).

Temperature range is limited on both ends and can be blocked using covered stop clips.

### Control behavior:

Proportional controller without auxiliary 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:

0 °C - 27 °C

### Temperature:

Max. sensor temperature: 50°C (122°F)

### Specific extension:

0.22 mm/K,  
Valve stroke limiter

### Water temperature influence:

0.3 K

### Differential pressure influence:

0.4 K

### Closing time:

26 min

### Hysteresis:

0.4 K

### Material:

ABS, PA6.6GF30, brass, steel,  
Liquid-filled thermostat.

### Marking:

Heimeier.

Setting numbers 1-5.

Symbols for basic setting and nighttime reduction.

Brief data including the most important settings.

Setting indicators on the face of the head.

Rotation direction indicator.

### Connection:

Designed to be mounted on all HEIMEIER thermostatic valve bodies and radiators with integrated valves which have an M30x1.5 thermostatic insert.

## 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.

## Application

Underfloor convector



Built-in cabinet

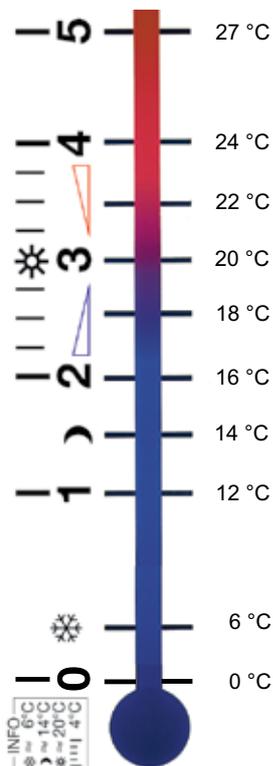


## Operation

### Recommended room temperatures

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

**Setting/Position**      **Room temperature approx.**



**Recommended for e.g.**

Swimming pool

Bathroom

Arbeits- u. Kinderzimmer

Work room or children's bedroom

Kitchen, corridor

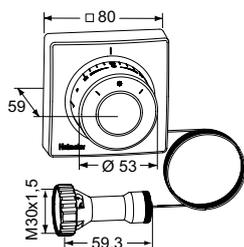
Hobby room, bedroom

All rooms at night (nighttime reduction)

Stairway, vestibule

Basement/cellar rooms (frost protection setting)

## Articles



### Thermostatic head F

Remote dial with built-in sensor.

Setting range	Capillary tube length [m]	EAN	Article No
0 °C – 27 °C	2,00	4024052191017	2802-00.500
	5,00	4024052191819	2805-00.500
	10,00	4024052192717	2810-00.500

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”. E-mail: [Partnerclip.Montage@imi-hydronic.com](mailto:Partnerclip.Montage@imi-hydronic.com)

## Accessories



### 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*)	4024052297016	9702-24.700
Danfoss RAV	4024052300112	9800-24.700
Danfoss RAVL	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	4024052429714	9700-33.700
Oventrop (M30x1,0)	4024052428519	9700-10.700
Ista	4024052511419	9700-36.700



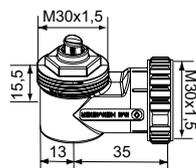
### Connection to radiators with integrated valves

Adapters for mounting 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.

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



### Angle connection M30x1,5

EAN	Article No
4024052035724	7300-00.700

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