IMI HEIMEIER

Thermostatic head DX

Thermostatic heads
with built-in sensor

Engineering
GREAT Solutions

IMI Hydronic Engineering

Thermostatic head DX

The thermostatic head DX is used to control the temperature of individual rooms using, for example, heaters, convectors, and radiators. The DX head combines high precision control with attractive looks.

Key features

- **Surface closed on all sides**
- **Particularly suitable for hygienically demanding areas**
- **Reduced size in length and diameter**
- **Liquid-filled thermostat with high pressure power and precision control**
- **Limiting or locking of a setting**

Technical description

Applications area:
Heating systems

Functions:
Room temperature control.
Frost protection.
Limiting or locking of a setting.

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:
6 °C - 28 °C

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

Specific extension:
0.22 mm/K,
Valve stroke limiter

Water temperature influence:
0.7 K

Differential pressure influence:
0.3 K

Closing time:
24 min

Hysteresis:
0.4 K

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

Marking:
Heimeier and KEYMARK symbol.
Setting numbers 1-5.

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

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Surface closed on all sides. Particularly suitable for hygienically demanding areas in health care or food / industrial sector.

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

Function

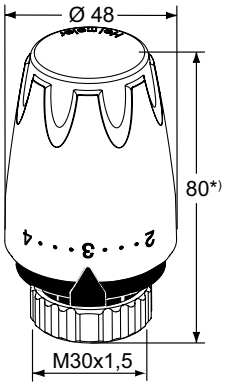
In terms of controls, thermostatic heads are seen as continuous proportional controllers (P controllers) that require no auxilliary energy. They do not need an electrical connection or other source of energy. Changes in room air temperature are proportional to changes in the valve stroke.
If the temperature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

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.
5	28 °C	Swimming pool
4	24 °C	Bathroom
3	22 °C	Work room or children's bedroom
3	20 °C	Living or dining rooms (basic setting)
2	18 °C	Kitchen, corridor
2	16 °C	Hobby room, bedroom
1	12 °C	Stairway, vestibule
❄	6 °C	Basement/cellar rooms (frost protection setting)

Articles



Thermostatic head DX
With built-in sensor

Model	EAN	Article No
Cap with graduation RAL 9016, **white**	4024052494026	6700-00.500
Cap with graduation **chrome**	4024052494125	6700-00.501
Cap with graduation RAL 7024, **graphite grey**	4024052494224	6700-00.503
Cap with graduation RAL 7035, **light grey**	4024052494323	6700-00.504
Cap with graduation RAL 7037, **dust grey**	4024052494422	6700-00.505
Cap with graduation RAL 9005, **jet black**	4024052575510	6700-00.507
Cap with graduation **pergamon**	4024052510221	6700-00.506

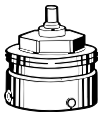
Other RAL colors on request from 300 pieces.

*) setting at 3

Accessories

Theft protection
for thermostatic heads K, DX, D, WK.

	EAN	Article No
	4024052264810	6020-01.347



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

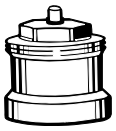
Manufacturer	EAN	Article No
Danfoss RA*)	4024052297016	9702-24.700
Danfoss RAV	4024052300112	9800-24.700
Danfoss RAVL	4024052295913	9700-24.700
Vaillant (Ø ≈ 30 mm)	4024052296019	9700-27.700
TA (M28x1,5)	4024052336418	9701-28.700
Herz (M28x1,5)	4024052296316	9700-30.700
Markaryd (M28x1,5)	4024052296514	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 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.

		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		
15	4024052553310	2001-15.700
30	4024052165018	2002-30.700

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