



Kombi TRV V2100PI

Pressure Independent Thermostatic Radiator Valve

Thermostatic Balancing Radiator Valves

Kombi-TRV - a simple and robust one-valve solution for automatic heating system balancing

Slow to heat or cold radiators, system noise, high heating bills and costly service visits - these are the consequences of an unbalanced heating system. This can all be avoided by hydronic balancing.

Manual system balancing is often time consuming or requires complex piping and pressure loss calculations. We now offer a simple and robust solution for two-pipe heating systems with differential pressure up to 60 kPa and flows up to 160 l/h:

The Kombi-TRV is a thermostatic radiator valve with an inbuilt differential pressure controller. This combination of two valves in one ensures optimal room temperature control and easy automatic hydronic balancing. Piping and pressure loss calculations are not needed, it requires only the max design flow to be set directly on the Kombi-TRV. The inbuilt pressure controller ensures that the set max flow is maintained under varying system pressure conditions, simply and easily eliminating the common consequences of an unbalanced heating system.

Kombi-TRV offers a unique design making it the most robust solution on the market

Recommended for systems with:

- Max. differential pressure 60 kPa
- Max. design flow 160 l/h
- Complex or unknown risers design
- Main risers/returns that are difficult to access or are distant from each other

Technical data

- Standard dimensions according to EN 215 Thermostatic radiator valve 30x1,5
- Design size DN10, DN15, DN20
- Design angle, straight, axial (only DN10 + DN15)

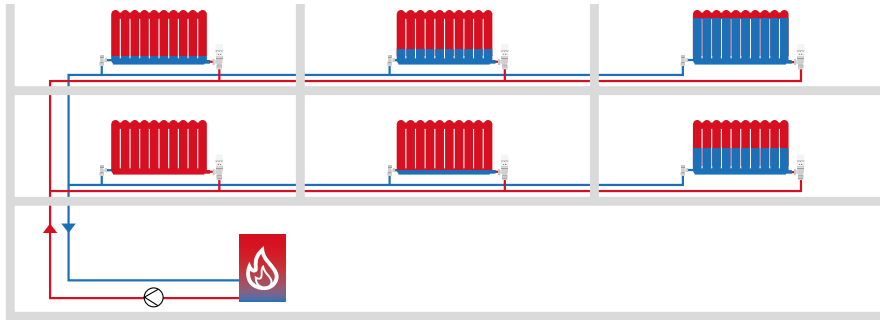


FEATURES & BENEFITS

- Easy installation & automatic hydronic balancing – only needs to be installed on each radiator
- Patented, simple, robust design, and standard dimensions ensure they are suitable for installation in refurbishment and new build projects
- Fits in place of conventional TRVs and ensures optimal heat distribution
- The valve insert can be exchanged whilst the system is in operation
- Easy pre-setting of max design flow using either a special setting key (see accessories) or a standard 7mm wrench
- Fail-safe metal & water flow design & fewer components eliminate the risk of dirt ingress causing failure
- Noise-free operation over the whole regulation range
- No need for complex piping and pressure loss calculations
- Reduce call-backs by reducing system inefficiency
- Angled and straight versions with matching lock shield available.
- Accessories available including towel rail applications

Install optimized heating systems using Hydronic balancing pressure independent TRVS

Balanced systems offer many energy efficiency benefits and increased comfort control over an unbalanced system. For a two-pipe system, the Kombi-TRV offers a smart solution for hydronic balancing in an easy and reliable way.



Unbalanced heating system

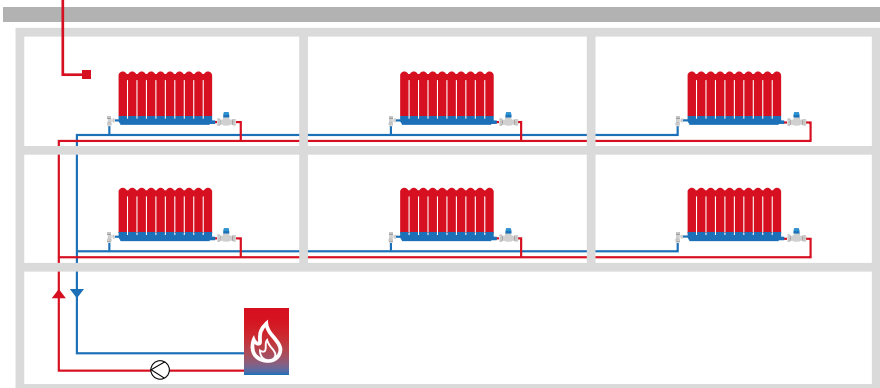
Evaluation

	LOW	HIGH
Energy efficiency	■	■
Comfort	■	■

- Inefficient heating
- Over or underheated rooms
- Decreased property user comfort



Kombi-TRV only needs to be installed on each radiator, no other additional components are required on the risers.

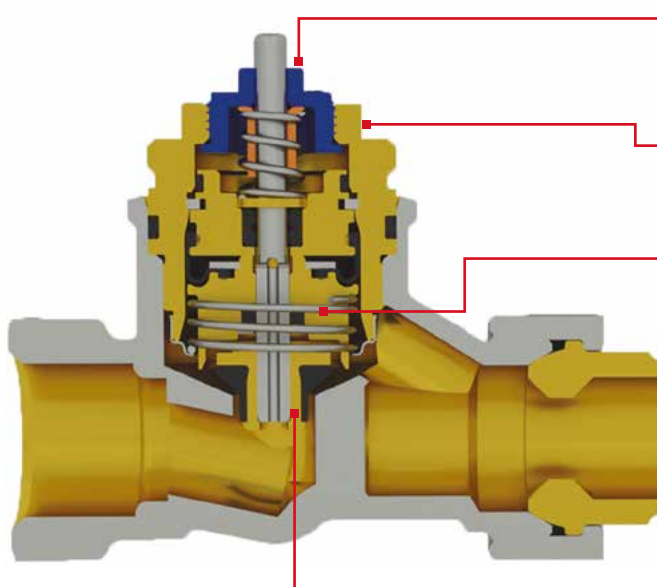


Balanced heating system

Evaluation

	LOW	HIGH
Energy efficiency	■	■
Comfort	■	■

- Efficient heating
- Even heat distribution
- Increasing thermal room comfort and user satisfaction



■ **Pre-setting dial:** The simple 1-8 scale enables you to quickly set any max. design flow between 10-160 l/h. Setting can be done by standard wrench

■ **Compatibility:** M30x1,5 thread ensures compatibility with all standard Honeywell Home radiator thermostats for valves with 2,5 mm stroke and closing dimension of 11,5 mm.

■ **Differential pressure controller:** This permanently reflects the varying system pressure conditions. As soon as the inlet pressure fluctuates, the pressure controller closes or opens correspondingly, maintaining constant pressure across the valve. Consequently, the set max. design flow remains constant - independent of system pressure fluctuations - eliminating under or over supply

■ **Valve plunger:** This defines the max. design flow and regulates the flow through the radiator reflecting the ambient room temperature being controlled by the thermoelement in the radiator thermostat.

Kombi-TRV ordering selection table

	PRODUCT CODE	DESCRIPTION	SIZE
	VTL5100EPI15GB	Complete Kombi TRV with matching lock shield and 'Capri'	15mm
	V2100EPI15	Kombi TRV angled body	15mm
	V2100DPI15	Kombi TRV straight body	15mm
	VT2100API15	Kombi TRV horizontal angled body	15mm
	V2420E0015	Kombi TRV lockshield	15mm
	T5019W0GB	'Capri' TRV Head	N/A
	FIG1/2CS15	Copper & steel compression fitting	15mm
	VA5201A015	Radiator tailpiece	15mm
	VA2504V015	Extended Radiator tailpiece	15mm
	VA2200D001	Manual hand wheel cap	N/A
	V2202A015	Pressure cap (shut off)	15mm
	VA5090A015	Pressure cap sealing ring	15mm
	VA8200A003	Valve replacement	N/A
	VA3300A001	Drain off adaptor	N/A
	VA8300A001	Drain off tool	N/A
	VA8201PI04	Pre-setting Key	N/A
	VA8201PI04	Replacement valve insert	N/A

*These products are just a selection of the types and sizes we have available
- please ask your sales contact for further information.

For more information

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