

# Siemens Building Products

**Residential Products Selection Guide** 

www.siemens.co.uk/residential-controls

### Introduction

Siemens Heating Controls are one of the World's leading suppliers of products for the safe and efficient control of heating systems in residential installations. Our reputation is second to none, we aim to maintain this reputation through our commitment to design and product quality, backed by a dedicated technical support team.

Our highly trained and knowledgeable team can be contacted on a local rate number

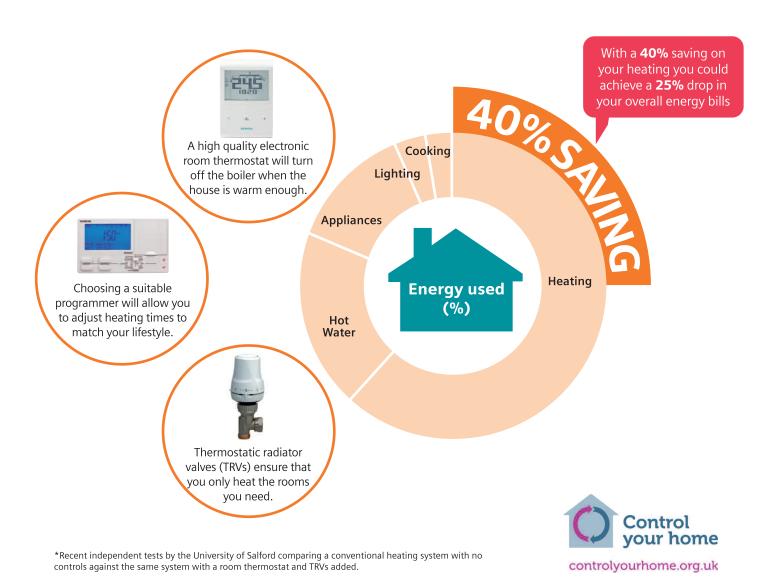
0330 4035106 from anywhere in the UK. Siemens Heating Controls is part of one of the largest global electrical and engineering groups.

Throughout a 160 year history of proven research and engineering talent, with more than 50,000 active patents, Siemens has continuously provided its customers with innovations in the areas of healthcare, energy, industry, and infrastructure – globally and locally.

#### Adding controls to your heating system can reduce running costs by 40%\*

A properly installed heating control system will maintain suitable temperatures in every room in your home, prevent wasted heat and make sure your boiler runs efficiently.

Heating controls from Siemens are cost effective and readily available. They are also easy to fit and can be installed with minimal disruption.



### Contents

Time Control At-a glance g		Page 4
Product	Page	List Price
RWB30E	5	£50.00
RWB2E	5	£65.00
RWB1007	6	£55.00
RWB2007	6	£68.00
RWB27Si	7	£45.00
RWB29Si	7	£60.00

Cylinder, Pipe and Frost Thermostats At-a glance guide Page 20					
Product	Page	List Price			
RAM1	21	£24.50			
RAM1.T	21	£24.50			
RAA11	21	£17.50			

Room Therm At-a glance g		Page 8
Product	Page	List Price
RDD100	9	£27.00
RDD100.1	9	£27.00
RDH100	10	£23.00
RAA21	10	£10.00
RAA11	10	£9.50

Motorised V	alves	
Product	Page	<b>List Price</b>
CZV222	22	£80.00
CZV228	22	£90.00
DVA2/5	22	£70.00
DVA2/6	22	£75.00
CMV322 and CM	1V328 Mid-position va	alves and DVA3
replacement act	uators are available o	n request

Programmable At-a glance gu		ostats Page 11
At a glaffee ge	iluc	rage II
Product	Page	List Price
RDE100	12	£35.00
RDE100.1	12	£35.00
RDE100.1DHW	13	£70.00
RDJ100	13	£30.00
REV24	14	£70.00
RDS110	14	£200.00

Thermostatic Radiator and By-pass valves					
Product	Page	List Price			
MTN51GB	23	£22.00			
TRADE TRV15	23	£15.00			
BPV22	23	£32.00			

Wireless Therr At-a glance gu		Page 15
Product	Page	List Price
RDH100RF/SET	16	£60.00
RDJ100RF/SET	16	£70.00
RDD100.1RFS	17	£60.00
RDE100.1RFS	17	£80.00
REV24RF/SET	18	£150.00
RDE-MZ6	18	£181.00
RDD100.1RF	19	£40.00
RDE100.1RF	19	£50.00

Product	Page	List Price
TRV PACK 2	24	£33.00
TRV PACK 3	24	£42.00
TRV PACK 4	24	£55.00
TRV PACK 5	25	£28.00
TRV PACK 9	25	£9.00
TRV PACK 10	25	£5.50

Prices shown are **Recommended List Price**, **excluding VAT** and valid from 1 October 2020 until 30 September 2021. For technical specifications and further information please refer to our website **www.siemens.co.uk/residential-controls** 

Time Controls at-a-c	glance					
	RWB27Si	RWB29Si	RWB30E	RWB2E	RWB1007	RWB2007
Menu driven programming						
Large backlit display						
Daily programming						
Daily, weekday/weekend programming						
Two or three ON/OFFs per day						
Two ON/OFFs per day						
Clock with auto summer/ winter changeover	•	•			•	•
Holiday programming						
LED 'ON' light						
Advance facility						
1 hour boost facility						
Up to 3 hour boost facility						
Override facility						
Service Interval Function						
Visual service reminder						
Audible service reminder						
Independent timing for hot water and central heating		•				•
Combination Boilers						
Gravity or fully pumped systems						
Direct replacement using industry standard backplate	•	•		•	•	•
Battery back up						
Volt free contacts						

**Time Controls** 

#### **RWB30E Traditional Daily Timer**

- Daily programming
- Advance and 1 hour boost facility
- 2 ON/OFFs per day
- All day option
- Override facility
- LED 'ON' lamp
- Volt free contacts 12-250V
- Industry standard backplate
- Ideal for Combination boilers



Operating voltage: AC230V ± 10%

Contact rating: 6A Resistive 2A Inductive

Dimensions: 145mm x 90mm x 50mm

#### **RWB2E Traditional Daily Programmer**

- Daily programming
- Advance and 1 hour boost facility
- 2 ON/OFFs per day
- All day option
- Override facility
- LED 'ON' lamps
- Volt free contacts 12-250V
- Ideal for gravity or fully pumped systems



Operating voltage: AC230V ± 10%

Contact rating: 6A Resistive 2A Inductive

Dimensions: 145mm x 90mm x 34mm

#### **RWB1007 Timer**

- Easy to read backlit display
- Daily, weekday/weekend or 7 day programming
- Advance and 1 hour boost facility
- 2/3 ON/OFFs per day
- Clock with auto summer/winter changeover
- Clock supplied preset to correct time and date
- LED 'ON' lamp
- Service interval function
- Audio and visual service reminder
- Battery back-up
- Volt free contacts 12-250V
- Industry standard backplate
- Ideal for Combination boilers



Operating voltage: AC230V ± 10%

Contact rating: 6A Resistive 2A Inductive

Dimensions: 145mm x 85mm x 34mm

#### **RWB2007 Programmer**

- Easy to read backlit display
- Daily, weekday/weekend or 7 day programming
- Advance and 1 hour boost facility
- 2/3 ON/OFFs per day
- Clock with auto summer/winter changeover
- Clock supplied preset to correct time and date
- LED 'ON' lamps
- Service interval function
- Audio and visual service reminder
- Battery back-up
- Industry standard backplate
- Ideal for gravity or fully pumped systems



Operating voltage: AC230V ± 10%

Contact rating: 6A Resistive 2A Inductive

Dimensions: 145mm x 85mm x 34mm

#### **RWB27Si Timer**

- Menu driven programming
- Easy to read, larger than average backlit display
- Daily, weekday/weekend or 7 day programming
- Advance and up to 3 hour boost facility
- 2/3 ON/OFFs per day
- Holiday programming
- LED 'ON' lamp
- Battery back-up
- Volt free contacts 12-250V
- Industry standard backplate
- Ideal for Combination Boilers
- Service interval function



Operating voltage: AC230V ± 10%

Contact rating: 6A Resistive 2A Inductive Dimensions: 145mm x 90mm x 34mm

#### **RWB29Si Programmer**

- Menu driven programming
- Easy to read, larger than average backlit display
- Daily, weekday/weekend or 7 day programming
- Advance and up to 3 hour boost facility
- 2/3 ON/OFFs per day
- Holiday programming
- LED 'ON' lamps
- Battery back-up
- Industry standard backplate
- Ideal for gravity or fully pumped systems
- Service interval function



Operating voltage: AC230V ± 10%

Contact rating: 6A Resistive 2A Inductive Dimensions: 145mm x 90mm x 34mm

Room thermostats at-a-glance							
	RAA21-GB	RAA11	RDD100	RDD100.1	RDH100		
Combination Boilers							
TPI (PID) control							
Gas filled bellows		•					
24 - 250V							
Changeover contacts	•	•	•	•			
Setting range 5°C - 30°C							
Setting range 8°C - 30°C		•					
Setting range 5°C - 35°C			•	•			
Limiting or locking facility							
Setback temperature 5°C - 35°C			•	•			
Double insulated (no earth required)	•	•	•	•	•		
Electronic display			•	•			
Heating or cooling operation							
Tamperproof							
5 Amp rated							
6 Amp rated	•	•					

# RDD100 Digital Room Thermostat with LCD

- Room temperature control
- Double insulated (no earth required)
- Comfort, economy and frost protection mode
- 2-position control with ON/OFF control output
- Mains powered
- Volt free contacts
- Ideal for Combination Boilers
- Temperature setting range 5°C 35°C



Operating voltage: AC230V  $\pm$  10%-15% Dimensions: 85mm x 106mm x 21.5mm

# RDD100.1 Digital Room Thermostat with LCD

- Room temperature control
- Double insulated (no earth required)
- Comfort, economy and frost protection mode
- 2-position control with ON/OFF control output
- Battery powered
- Volt free contacts
- Ideal for Combination Boilers
- Temperature setting range 5°C 35°C



Operating voltage: DC 3V (2 x 1.5V AAA batteries)

Dimensions: 85mm x 106mm x 21.5mm

## RDH100 Digital Room Thermostat with LCD

- Room temperature control
- TPI (PID) control
- Double insulated (no earth required)
- Large easy to read display
- Large dial for settings
- Battery powered
- Volt free contacts
- Temperature setting range 5°C 30°C



Operating voltage: DC 3V (2 x 1.5V AA batteries)

Contact rating: 5A Resistive 2A Inductive Dimensions: 90mm x 120mm x 35mm

#### **RAA21 Standard Room Thermostat**

- Room temperature control
- Double insulated (no earth required)
- Gas bellows type operation (no neutral required)
- Ideal for Combination Boilers
- Battery powered
- Volt free contacts
- Temperature setting range 8°C 30°C



Nominal voltage: 24 - 250V

Contact rating: 5A Resistive 2A Inductive Dimensions: 96mm x 97mm x 35mm

### **RAA11 Tamperproof Room Thermostat**

- Room temperature control
- Double insulated (no earth required)
- Gas bellows type operation (no neutral required)
- Ideal for Combination Boilers
- Suitable for use as a frost thermostat
- Tamperproof
- Volt free contacts
- Temperature setting range 8°C 30°C



Nominal voltage: 24 - 250V

Contact rating: 5A Resistive 2A Inductive

Dimensions: 96mm x 97mm x 35mm

For technical specifications and further information please refer to our website www.siemens.co.uk/residential-controls

Programmable Room Thermostats at-a-glance							
	RDJ100	REV24	RDE100	RDE100.1	RDE100.1DHW	RDS110	
Combination Boilers				-			
Underfloor heating				•	•		
Self-learning logic							
Digital display							
Programmable away from backplate							
TPI (PID) control							
24 - 250V							
Daily programming							
Weekday/weekend programming				•			
7 day programming					•		
Lockable display					•		
Holiday programming					•		
Setback facility							
Frost protection					•		
Changeover contacts					•		
Party mode (up to 9 hour boost)							
5 Amp rated							
6 Amp rated							
Optimum start							
Humidity sensor							
Air quality sensor							
Mobile app for smart phones and tablets							

# RDE100 Programmable Room Thermostat with LCD

- Room temperature control
- Double insulated (no earth required)
- Daily, weekday/weekend or 7 day programming
- Comfort, economy and frost protection mode
- 2-position control with ON/OFF control output
- Holiday programming
- Mains powered
- Volt free contacts
- Ideal for combination boilers



Operating voltage: AC230V  $\pm$  10%-15% Contact rating: 5A Resistive 2A Inductive Dimensions: 85mm x 127mm x 21.5mm

### RDE100.1 Programmable Room Thermostat with LCD

- Room temperature control
- Double insulated (no earth required)
- Daily, weekday/weekend or 7 day programming
- Comfort, economy and frost protection mode
- 2-position control with ON/OFF control output
- Holiday programming
- Battery powered
- Volt free contacts
- Ideal for combination boilers



Operating voltage: DC 3V (2 x 1.5V AAA batteries)

Contact rating: 5A Resistive 2A Inductive Dimensions: 85mm x 127mm x 21.5mm

# RDE100.1DHW Programmable Room Thermostat with LCD

- Room temperature control
- Double insulated (no earth required)
- Daily, weekday/weekend or 7 day programming
- Comfort, economy and frost protection mode
- 2-position control with ON/OFF control output
- Holiday programming
- Battery powered
- Volt free contacts
- Independent ON/OFF control of DHW



Operating voltage: DC 3V (2 x 1.5V AAA batteries)

Contact rating: 5A Resistive 2A Inductive Dimensions: 85mm x 127mm x 21.5mm

### RDJ100 Programmable Room Thermostat

- Room temperature control
- TPI (PID) control
- Large, easy to read LCD display
- Double insulated (no earth required)
- Large dial for settings
- Daily programming
- Battery powered
- Volt free contacts
- Ideal for combination boilers



Operating voltage: DC 3V (2 x 1.5V AA batteries)

Contact rating: 5A Resistive 2A Inductive Dimensions: 90mm x 120mm x 35mm

## **REV24 Programmable Room Thermostat**

- Room temperature control
- Double insulated (no earth required)
- Large, easy to read LCD display
- Slider settings and text instructions
- Daily, weekday/weekend or 7 day programming
- Comfort, economy and frost protection mode
- 2-position control with ON/OFF control output
- Up to 9 hour boost
- TPI (PID) control
- Holiday programming
- Battery powered
- Volt free contacts
- Ideal for combination boilers



Operating voltage: DC 3V (2 x 1.5V AA batteries)

Current rating: 6A Resistive 2A Inductive

Dimensions: 134mm x 94mm x 30mm

#### RDS110 Smart Room Thermostat

- Energy optimised room control with Green leaf button
- Easy to use with intuitive navigation
- Controls temperature and humidity with in-built air quality and presence detection
- Mobile app for smart phones and tablets
- 7 day time program with Optimum Start
- DHW timed output



Operating system: iOS 10 or above Android™ 5.0 or above

Dimensions: 91mm x 91mm x 26mm

RF (Wireless)	Ther							
	RDH100 RF/SET	RDJ100 RF/SET	RDD100.1 RFS	RDE100.1 RFS	REV24RF/ SET	RDE-MZ6	RDD100.1 RF	RDE100.1 RF
Combination Boilers								
Underfloor heating								
24-250V volt free contacts	•	•		•	•	•	•	•
Large digital display								
Backlit display								
Setback facility								
Changeover contacts								
On/Off contacts								
Advance								
Daily programming								
Weekday/weekend programming				•	•			•
7 day programming								
Large control dial								
TPI (PID) control								
433MHz								
868MHz								
Double insulated								
Holiday programming								
Frost protection								
Override								
Manual override switch (on receiver)		•		•		•	•	•
Party mode (up to 9 hour boost)								
RF signal strength indicator								

For technical specifications and further information please refer to our website www.siemens.co.uk/residential-controls

## RDH100RF/SET Wireless Digital Room Thermostat and Receiver

- Large, easy to read LCD display
- TPI (PID) control
- Double insulated (no earth required)
- Large dial for settings
- Manual override
- Battery powered
- Volt free contacts
- Range 20 metres line of sight between transmitter and receiver





#### RDH100RF

Operating voltage: DC 3V (2 x 1.5V AA batteries)

Dimensions: 90mm x 120mm x 35mm

#### RCR10/433

Operating voltage: AC 230V±10%-15% Contact rating: 8A Resistive 3A Inductive Dimensions: 84mm x 104mm x 32mm

# RDJ100RF/SET Wireless Programmable Room Thermostat and Receiver

- Large, easy to read LCD display
- TPI (PID) control
- Double insulated (no earth required)
- Large dial for settings
- Manual override
- Daily programming
- Battery powered
- Volt free contacts
- Range 20 metres line of sight between transmitter and receiver





#### RDJ100RF

Operating voltage: DC 3V (2 x 1.5V AA batteries)

Dimensions: 90mm x 120mm x 35mm

#### RCR10/433

Operating voltage: AC 230V±10%-15% Contact rating: 8A Resistive 3A Inductive Dimensions: 84mm x 104mm x 32mm

## RDD100.1RFS Wireless Digital Room Thermostat and Receiver

- Room temperature control
- Double insulated (no earth required)
- Comfort, economy and frost protection mode
- Battery powered
- Volt free contacts
- Unique RF signal
- Range 20 metres line of sight between transmitter and receiver



#### RDD100.1RFS

Operating voltage: DC 3V (2 x 1.5V AA batteries)

Dimensions: 85mm x 106mm x 21.5mm

#### RCR100RF

Operating voltage: AC 230V±10%-15% Contact rating: 8A Resistive 3A Inductive Dimensions: 84mm x 104mm x 27.5mm

### RDE100.1RFS Wireless Digital Room Thermostat and Receiver

- Room temperature control
- Double insulated (no earth required)
- Daily, weekday/weekend or 7 day programming
- Comfort, economy and frost protection mode
- 2-position control with On/Off control output
- Holiday programming
- Battery powered
- Volt free contacts
- Unique RF signal
- Ideal for combination boilers
- Range 20 metres line of sight between transmitter and receiver



#### RDE100.1RFS

Operating voltage: DC 3V (2 x 1.5V AA batteries)

Dimensions: 85mm x 106mm x 21.5mm

#### RCR100RF

Operating voltage: AC 230V±10%-15% Contact rating: 8A Resistive 3A Inductive Dimensions: 84mm x 104mm x 27.5mm

For technical specifications and further information please refer to our website www.siemens.co.uk/residential-controls

# REV24RF/SET Wireless Programmable Room Thermostat and Receiver

- Double insulated (no earth required)
- Daily, weekday/weekend or 7 day programming
- Slider settings and text instructions
- Signal strength indicator
- TPI (PID) control
- Comfort, economy and frost protection mode
- Automatic summer/winter changeover
- Up to 9 hour boost
- Holiday programming
- Battery powered
- Volt free contacts
- Ideal for combination boilers
- Range 20 metres line of sight between transmitter and receiver



#### REV24RF

Operating voltage: DC 3V (2 x 1.5V AA batteries)

Dimensions: 134.5mm x 94mm x 30mm

#### RCR10/868

Operating voltage: AC 230V±10%-15% Contact rating: 8A Resistive 3A Inductive Dimensions:114mm x 88mm x 31.5mm

#### **RDE-MZ6 Wireless multizone receiver**

### Only for use with RDD100.1RF and RDE100.1RF room thermostats (to be ordered separately)

- Up to 6 devices can be connected for independent control of each room/zone
- Easy and quick installation due to new design and easily identifiable terminal markings
- Simple pairing of operation helps reduce installation time
- Indication of operating status via LEDs
- External antenna for multizone installation inside a metal enclosure or weak wireless connectivity (provided free)



Operating voltage: AC 230V±10%-15% Contact rating: 8A Resistive 2A Inductive Dimensions: 280mm x 78mm x 36.5mm

## RDD100.1RF Wireless digital room thermostat

- For use with RDE-MZ6 multizone receiver
- Room temperature control
- Double insulated (no earth required)
- Comfort, economy and frost protection mode
- Battery powered
- Range 20 metres line of sight between transmitter and receiver



Operating voltage: DC 3V (2 x 1.5V AA batteries)

Contact rating: 8A Resistive 2A Inductive Dimensions: 85mm x 106mm x 21.5mm

### RDE100.1RF Wireless programmable room thermostat

- For use with RDE-MZ6 multizone receiver
- Room temperature control
- Double insulated (no earth required)
- Daily, weekday/weekend or 7 day programming
- Comfort, economy and frost protection mode
- 2-position control with ON/OFF control output
- Holiday programming
- Battery powered
- Range 20 metres line of sight between transmitter and receiver



Operating voltage: DC 3V (2 x 1.5V AA batteries)

Dimensions: 85mm x 127mm x 21.5mm

Cylinder, Pipe and Frost Thermostats at-a-glance			
	RAM1	RAM1.T	RAA11
Bi-metallic sensor			
Gas bellows sensor			
15°C - 90°C	•	•	
8°C - 30°C			
SPDT contacts			•
Can be used on pipes up to 41mm Diameter			
Tamperproof cover		•	•
Can be used as a frost thermostat			

### Cylinder, Pipe and Frost Thermostats RAM1 • RAM1.T • RAA11

#### **RAM1 Cylinder/Pipe Thermostat**

- Bi-metallic sensor
- Can be used on pipes up to 41mm diameter
- Temperature setting range 15°C 90°C

Contact rating: 15A SPDT

Dimensions: 50mm x 116mm x 59mm



#### **RAM1.T Cylinder/Pipe Thermostat**

- Bi-metallic sensor
- Tamperproof
- Can be used on pipes up to 41mm diameter
- Temperature setting range 15°C 90°C

Contact rating: 15A SPDT

Dimensions: 50mm x 116mm x 59mm



#### **RAA11 Tamperproof Room Thermostat**

- Double insulated (no earth required)
- Gas bellows type operation (no neutral required)
- Tamperproof
- Volt free contacts
- Temperature setting range 8°C 30°C

Switching voltage: AC 24 - 250V

Contact rating: 8A Resistive 3A Inductive, SPDT

Dimensions: 96mm x 97mm x 35mm



### **Motorised Valves**

# CZV... 22mm and 28mm 2-port motorised valves

- Demountable actuator (power head)
- Replaceable motor
- Wedge type actuator
- Spring return operation
- Motor open
- Volt free switching, 24-240V
- Manual lever for flushing or filling the system
- Industry standard wiring
- Standard motor voltage: 230V 50Hz



#### Part numbers:

CZV222 - 22mm 2-port valve

CZV228 - 28mm 2-port valve

DVA2/5 - Demountable actuator for CZV222

DVA2/6 - Demountable actuator for CZV228

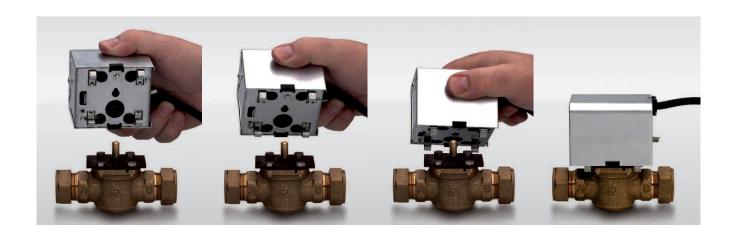
Also available as a Mid-position Valve on request.

#### Part numbers:

CMV322 - 22mm 3-port valve

CMV328 - 28mm 3-port valve

DVA3 - Demountable actuator for CMV322/328



### TRVs and By-pass Valve

# MTN51GB Thermostatic Radiator Valve (TRV)

- Liquid sensor
- Reverse flow fitting allows installation in either flow or return without regard to head position
- Supplied complete with 10 and 15mm fittings
- Temperature limiters
- Frost protection setting
- EN215 approval
- Also available with push fit elbow MTN51GBL



\*We recommend the installation of an Automatic By-pass valve to achieve maximum efficiency from the system

# TradeTRV15 Thermostatic Radiator Valve (TRV)

- Liquid sensor
- Reverse flow fitting allows installation in either flow or return without regard to head position
- Supplied complete with 10 and 15mm fittings
- Temperature limiters
- Frost protection setting
- EN215 approval



\*We recommend the installation of an Automatic By-pass valve to achieve maximum efficiency from the system

#### **BPV22 Automatic By-pass Valve**

- Allows for constant water circulation through the boiler/system when TRVs close
- Reduces pump burn out
- Reduces system and boiler noise
- Improves system efficiency
- 22mm fittings only



For technical specifications and further information please refer to our website www.siemens.co.uk/residential-controls

### TRV Packs

#### **TRV Pack 2**

- TRV Head
- Angled 10/15mm Valve body
- Lockshield and Cap
- Drain off valve



#### **TRV Pack 3**

- TRV Head
- Angled 10/15mm Valve body
- Lockshield and Cap
- Push fit elbows



#### **TRV Pack 4**

- TRV Head
- Angled 10/15mm Valve body
- Lockshield and Cap
- Push fit elbows
- Drain off valve



### TRV Packs

#### **TRV Pack 5**

- TRV Head
- Straight 10/15mm Valve body
- Lockshield and Cap
- Push fit elbows
- Drain off valve

#### **TRV Pack 9**

- Angled 10/15mm Valve body
- Lockshield /Wheelhead and Cap
- Drain off valve



#### **TRV Pack 10**

Drain off valve





Our world is undergoing changes that force us to think in new ways: demographic change, urbanisation, global warming and resource shortages. Maximum efficiency has top priority – and not only where energy is concerned. In addition, we need to increase comfort for the well being of users. Also, our need for safety and security is constantly growing. For our customers, success is defined by how well they manage these challenges.

Siemens has the answers.

Siemens plc Building Products Division Siemens Heating Controls Sir William Siemens Square Frimley Camberley Surrey GU16 8QD

Technical helpline: 0330 4035106

e-mail: sales.uk.sbt@siemens.com

The information in this document contains general descriptions of technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.

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