



Siemens Building Technologies

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

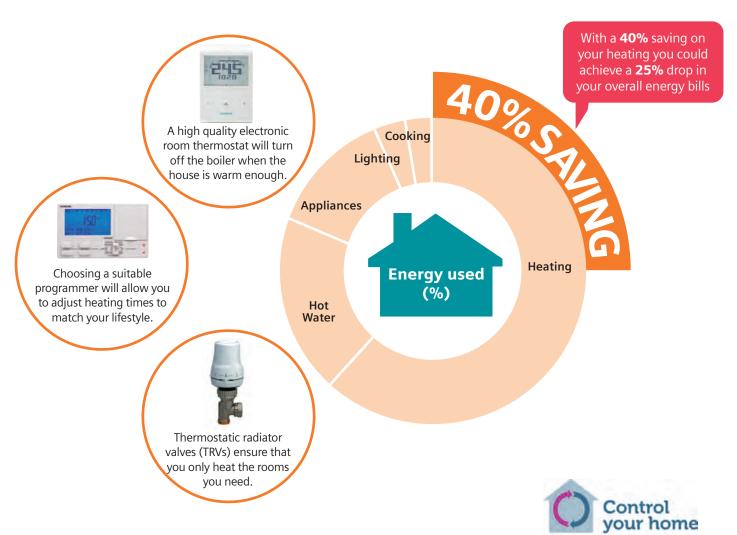
0870 850 0184 from anywhere in the UK. Siemens Heating Controls is part of one of the largest global electrical and engineering groups.

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.

controlyourhome.org.uk



*Recent independent tests by the University of Salford comparing a conventional heating system with no controls against the same system with a room thermostat and TRVs added.

Contents

Time Control At-a glance g		Page 4
Product	Page	List Price
RWB30E	5	£76.00
RWB2E	5	£106.00
RWB1007	6	£80.00
RWB2007	6	£109.00
RWB27Si	7	£76.00
RWB29Si	7	£104.00

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 Thermo At-a glance gi		Page 8	
Product	Page	List Price	Ρ
RDD100	9	£44.00	C
RDD100.1	9	£44.00	C
RDH100	10	£42.00	D
RAA21	10	£20.00	D
RAA11	10	£17.50	C

Motorised V	alves	
Product	Page	List Price
CZV222	22	£125.00
CZV228	22	£142.00
DVA2/5	22	£92.00
DVA2/6	22	£106.00
CMV322 and CM	/V328 Mid-position \	valves and DVA3

replacement actuators are available on request

Programmable Room Thermostats At-a glance guide Page 11			Thermostatic R By-pass valves		
Product	Page	List Price	Product	Page	List Price
RDE100	12	£56.00	MTN51GB	23	£33.00
RDE100.1	12	£56.00	TRADE TRV15	23	£25.00
RDE100.1DHW	13	£104.00	BPV22	23	£62.00
RDJ100	13	£54.00			
REV24	14	£122.00			
RDS110	14	£250.00			

Wireless Therm At-a glance gui		Page 15	Themostatic R	ostatic Radiator Valve Packs			
Product	Page	List Price	Product	Page	List Price		
RDH100RF/SET	16	£93.00	TRV PACK 2	24	£48.00		
RDJ100RF/SET	16	£106.00	TRV PACK 3	24	£56.00		
RDD100.1RFS	17	£96.00	TRV PACK 4	24	£63.00		
RDE100.1RFS	17	£132.00	TRV PACK 5	25	£45.00		
REV24RF/SET	18	£242.00	TRV PACK 9	25	£14.00		
RDE-MZ6	18	£178.00	TRV PACK 10	25	£10.00		
RDD100.1RF	19	£60.00					
RDE100.1RF	19	£75.00					

Prices shown are **Recommended List Price, excluding VAT** and valid from 1 October 2017 until 30 September 2018. For technical specifications and further information please refer to our website **www.siemens.co.uk/residential-controls**

Time Controls at-a-o	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 • RWB2E

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

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 50mm



Operating voltage: AC230V \pm 10% Contact rating: 6A Resistive 2A Inductive Dimensions: 145mm x 90mm x 34mm

Time Controls

RWB1007 • RWB2007

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

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

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



Operating voltage: AC230V ± 10% Contact rating: 6A Resistive 2A Inductive Dimensions: 145mm x 85mm x 34mm

Time Controls

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

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 \pm 10% Contact rating: 6A Resistive 2A Inductive Dimensions: 145mm x 90mm x 34mm

SIEMENS RWB275i

Operating voltage: AC230V ± 10% Contact rating: 6A Resistive 2A Inductive Dimensions: 145mm x 90mm x 34mm

RWB27Si • RWB29Si

Room thermostats at-a-glance								
	RAA21	RAA11	RDD100	RDD100.1	RDH100			
Combination Boilers								
PI control with ON/OFF output								
2-position control with ON/OFF output								
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								

Room Thermostats

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 output
- Mains powered
- Volt free contacts
- Ideal for Combination Boilers
- Temperature setting range 5°C 35°C



SIEMENS

Operating voltage: AC230V ± 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 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

RDD100 • RDD100.1

Room Thermostats

RDH100 • RAA21

RDH100 Digital Room Thermostat with LCD

- Room temperature control
- PI control with ON/OFF output
- 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

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							
PI control with ON/OFF output							
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							

Programmable Room Thermostats

RDE100 • RDE100.1

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
- PI control with ON/OFF 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
- PI control with ON/OFF output
- Holiday programming
- Battery powered
- Volt free contacts
- Ideal for combination boilers

SIEMENS

Operating voltage: DC 3V (2 x 1.5V AAA batteries) Contact rating: 5A Resistive 2A Inductive Dimensions: 85mm x 127mm x 21.5mm

Programmable Room Thermostats

RDE100.1DHW • RDJ100

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
- Pl control with ON/OFF 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
- PI control with ON/OFF output
- 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

Programmable Room Thermostats

REV24 • RDS110

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
- PID control with ON/OFF output
- Up to 9 hour boost
- 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
- PI control with ON/OFF output
- 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	nosta	ats at-	-a-gla	nce			
	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								
PI (PID) control with ON/OFF output								
2-position control with ON/OFF output								
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								

RDH100RF/SET • RDJ100RF/SET

RDH100RF/SET Wireless Digital Room Thermostat and Receiver

- Large, easy to read LCD display
- PI control with ON/OFF output
- 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
- PI control with ON/OFF output
- 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 • RDE100.1RFS

RDD100.1RFS Wireless Digital Room Thermostat and Receiver

- Room temperature control
- Double insulated (no earth required)
- Comfort, economy and frost protection mode
- PI control with ON/OFF output
- 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
- PI control with ON/OFF 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

REV24RF/SET • RDE-MZ6

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
- PID control with ON/OFF output
- 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 • RDE100.1RF

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
- 2-position control with ON/OFF output
- 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
- PI control with ON/OFF 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

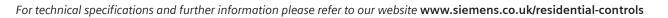
- Double insulated (no earth required)
- Gas bellows type operation (no neutral required)
- Tamperproof
- Volt free contacts
- Temperature setting range 8°C 30°C

Switching voltage: AC 24 - 250V

Contact rating: 8A Resistive 3A Inductive, SPDT

Dimensions: 96mm x 97mm x 35mm





Motorised Valves

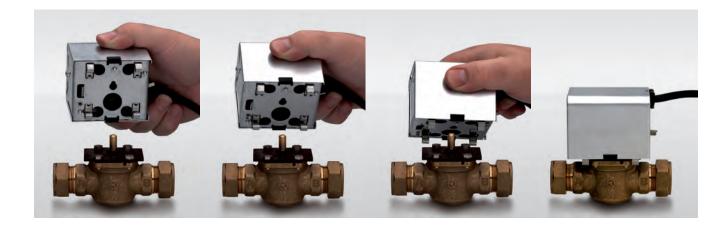
CZV... 22mm and 28mm 2-port motorised valves

- 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



TRV Packs

TRV Pack 2

- TRV Head
- Angled 10/15mm Valve body
- Lockshield and Wheel Head cap
- Drain off valve
- Decorators cap



TRV Pack 3

- TRV Head
- Angled 10/15mm Valve body
- Lockshield and Wheel Head cap
- Push fit elbows
- Decorators cap



TRV Pack 4

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



TRV Packs

TRV Pack 5

- TRV Head
- Straight 10/15mm Valve body
- Lockshield and Wheel Head cap
- Decorators cap



TRV Pack 9

- Angled 10/15mm Valve body
- Lockshield and Wheel Head cap



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 Technologies Division Siemens Heating Controls Sir William Siemens Square Frimley Camberley Surrey GU16 8QD

Technical helpline: 0870 850 0184

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.

© Siemens plc • Order no. Product Selection Guide V4E • Printed in the UK.