

Residential Heating Controls









2016 CATALOGUE

YOUR HEATING CONTROLS PARTNER

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YOUR HEATING CONTROLS PARTNER

About us

EPH Controls Ltd. was incorporated in 1997, initially supplying SAUTER HVAC controls to the Irish commercial, industrial and pharmaceutical markets – something we continue to do to this day. Sauter Building Controls are one of the leading HVAC and Energy Management companies in the world.

In 2006 the distribution of ESBE controls commenced. With over a century of knowhow, ESBE have perfected motorised valves and controls for the residential and light commercial markets.

In the same year, EPH began to manufacture its own range of premium quality heating controls for the residential market in Ireland and the UK. In the decade since there have been almost 100 products added to the range – many firsts in the industry.

In 2010 EPH Controls Ltd. began trading operations in the UK. It now distributes heating control products from its base in Leicestershire serving all merchants throughout the UK.

With an emphasis on supplying quality and innovative products, operations in both Ireland and the UK continue to expand at a rapid pace. With our technical representatives covering all aspects of heating controls we are never far away to answer any technical questions you may have.

EPH Controls as a company is dedicated to total customer service and this is at the core of everything we do. Whether it's pre-sale or aftersales service, our sales and support team will go the extra mile for the customer, no matter how big or small.









Motorised Valves

EPH Controls' range of motorised valves offer market leading functionality. All motorised valves come with a detachable actuator, detachable power cable and a power on light. In addition all component parts of the actuator are sourced from the market leaders in their fields in USA and Europe, making the DETACH Pro range of valves a must for all home heating installations.

2 Port Valve - Compression



These two Port Valves come with light, detach button and detach cable.

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2 Port Valve - Female BSP



These two Port Valves come with light, detach button and detach cable.



3 Port Valve - Compression



These three Port Valves come with a detach cable.



PRODUCT CODE	CONNECTION TYPE	FLOW RATE	MAX. CLOSE OFF PRESSURE
V221P	3/4" compression	4.6 kvs	1.0 bar
V222P	22mm compression	4.6 kvs	1.0 bar
V228P	28mm compression	6.8 kvs	0.6 bar
SWITCH RATING	MAX AMBIENT TEMP	MAX FLUID TEMP	,
11(3)A 230Vac	50°C	88°C	

PRODUCT CODE	CONNECTION TYPE	FLOW RATE	MAX. CLOSE OFF PRESSURE
V222FP	3/4" female BSP	4.6 kvs	1.0 bar
V228FP	1" female BSP	6.8 kvs	0.6 bar
V232FP	1 1/4" female BSP	8.0 kvs	0.3 bar
SWITCH RATING	MAX AMBIENT TEMP	MAX FLUID TEMP	
11(3)A 230Vac	50°C	88°C	

PRODUCT CODE	CONNECTION TYPE	FLOW RATE	MAX. CLOSE OFF PRESSURE*
B322PF	22mm compression	4.6 kvs	1.6 bar (A) 1.2 bar (B)
B328PF	28mm compression	6.8 kvs	1.2 bar (A) 0.8 bar (B)
SWITCH RATING	MAX AMBIENT TEMP	MAX FLUID TEMP	
5(2)A 230Vac	50°C	88°C	
		00%0	



REPLACEMENT FOR

Honeywell 2 port valves

Honeywell 3 port valves

EPH V type

EPH B type

MAX FLUID TEMP

88°C

PRODUCT CODE

MAX AMBIENT TEMP.

A1P

B1PF

C1P

D1P

50°C

Replacement Actuator



These two port valve actuators come with light, detach button and detach cable.



Accessories



PRODUCT CODE	CABLE HARNESS FOR
CH25	2 port 5 wire actuators
CH26	2 port 6 wire actuators
CH35	3 port 5 wire actuators

Cable harness to convert Detach actuator to Detach Pro actuator.

SWITCH RATING

11(3)A 230Vac

5(2)A 230Vac

11(3)A 230Vac

5(2)A 230Vac

Horstmann F type

Horstmann Z2 type

Horstmann Z3 type

Hardwired Programmers

EPH Controls' range of hardwired programmers offer a comprehensive solution for all zoning requirements with models available from 1 to 4 channels. With market leading functionality such as auto summer winter time, boost, advance and service interval these programmers are still easy to use. All units also come with the EPH Controls 5 year warranty.

NUMBER OF CHANNELS

AMBIENT TEMP RANGE

0-50°C

1

PRODUCT CODE

SWITCH RATING

5(3)A 230Vac

R17

R47

5(3)A 230Vac

4

1 Zone Timeswitch



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2 Zone Programmer



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PRODUCT CODE	NUMBER OF CHANNELS	SWITCH OUTPUT	BACKPLATE TYPE
R27	2	230Vac	6 pin
R27-HW	2	230Vac	6 pin
R27-VF	2	Volt Free	6 pin
SWITCH RATING	AMBIENT TEMP RANGE	SCREEN DIMENSIONS	OPERATING PERIODS
5(3)A 230Vac	0-50°C	100 x 35 mm	3 per day

SWITCH OUTPUT

SCREEN DIMENSIONS

100 x 35 mm

Volt Free

BACKPLATE TYPE

OPERATING PERIODS

3 per day

6 pin

3 Zone Programmer

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4 Zone Programmer	
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PRODUCT CODE	NUMBER OF CHANNELS	SWITCH OUTPUT	BACKPLATE TYPE
R37	3	230Vac	8 pin
R37-HW	3	230Vac	8 pin
SWITCH RATING	AMBIENT TEMP RANGE	SCREEN DIMENSIONS	OPERATING PERIODS
5(3)A 230Vac	0-50°C	100 x 35 mm	3 per day
5(3)A 230Vac	0-50°C	100 x 35 mm	3 per day

SWITCH RATING	AMBIENT TEMP RANGE	SCREEN DIMENSIONS	OPERATING PERIODS	

0-50°C	100 x 35 mm	3 per day

230Vac

8 pin

Hardwired Room Thermostats

Room Thermostat

	PRODUCT CODE	SWITCH RATING	ANTICIPATOR	INDICATOR LIGHT
A	CM2*	10(3)A 230 & 24Vac	-	-
	CM3	10(3)A 230Vac	Yes	Yes
EPH	CM3 - 24	12(4)A 24Vac	Yes	Yes
CM2 Combi Stat	CONTACT TYPE	TEMP RANGE	IP RATING	SWITCHING DIFFERENTIAL
Æ C€	SPDT	5-35°C Limitable	IP20	±1°C
	0.0.		20	

Room Frost Thermostat



PRODUCT CODE	SWITCH RATING	CONTACT TYPE	INDICATOR LIGHT
CMF	10(3)A 230Vac	SPST	Yes

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TEMPERATURE RANGE	TEMP RANGE	IP RATING	SWITCHING DIFFERENTIAL
Limitable	5-15°C	IP20	±1°C

Tamperproof Room Thermostat



PRODUCT CODE	SWITCH RATING	CONTACT TYPE	INDICATOR LIGHT
СМТ	10(3)A 230 & 24Vac	SPDT	-

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TEMPERATURE RANGE	TEMP RANGE	IP RATING	SWITCHING DIFFERENTIAL
Limitable	5-35°C	IP20	±1°C

Room Thermostat with On/Off Switch



PRODUCT CODE	SWITCH RATING	ON/OFF SWITCH	INDICATOR LIGHT
TM2S	10(3)A 230 & 24Vac	Yes	-
TM3S	10(3)A 230Vac	Yes	Yes



CONTACT TYPE	TEMP RANGE	IP RATING	SWITCHING DIFFERENTIAL
SPDT	10-30°C	IP20	±1°C

Hardwired Pipe / Cylinder Thermostats

Pipe / Cylinder Thermostat

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PRODUCT CODE	SETPOINT ADJUSTMENT	SWITCH RATING	CONTACT TYPE
WRP	External	16(4)A 230Vac	SPDT
WRP-TP	Internal (Tamperproof)	16(4)A 230Vac	SPDT
SENSOR TYPE	TEMP RANGE	IP RATING	SWITCHING DIFFERENTIAL

CE

Immersion Thermostat



PRODUCT CODE	SETPOINT ADJUSTMENT	SWITCH RATING	CONTACT TYPE
WRP-IM	External	16(4)A 230Vac	SPDT
WRP-IM-TP	Internal (Tamperproof)	16(4)A 230Vac	SPDT
SENSOR TYPE	TEMP RANGE	IP RATING	SWITCHING DIFFERENTIAL

CE

SENSOR TYPE	TEMP RANGE	IP RATING	SWITCHING DIFFEREN
Gas filled	0-90°C	IP20	±5°C

Dual Thermostat with Manual Reset



PRODUCT CODE	SETPOINT ADJUSTMENT	SWITCH RATING	SWITCH OUTPUT
DBS	External	16(4)A	SPDT

CE

SENSOR TYPE	TEMP RANGE	SWITCHING DIFFERENTIAL
Liquid filled	0-90°C	±5°C

Outside Frost Thermostat

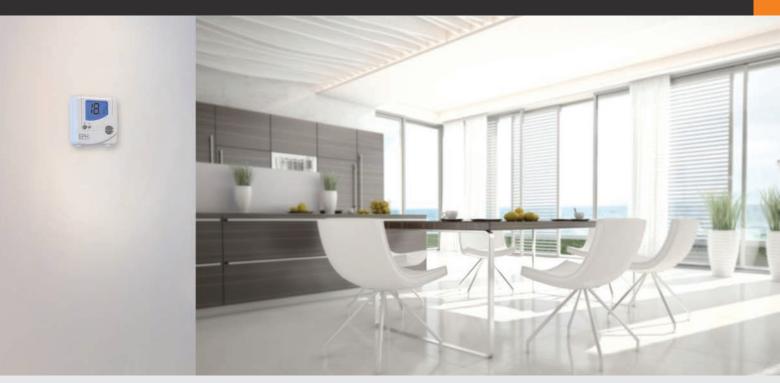


PRODUCT CODE	DESCRIPTION	SWITCH RATING	TEMP RANGE
C10C2RIYS1	Internal Setpoint Adj.	15(2.5)A 230Vac	-35°C - 20°C
EPH-FSC	Frost stat controller	8A 230Vac	-

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SWITCH OUTPUT	MAX. AMBIENT TEMP
SPDT Volt Free	50°C

Digital Room / Cylinder Thermostats



EPH Controls' range of digital thermostats offers a reliable solution to all installations. The range includes both battery & mains operated room and pipe / cylinder thermostats in programmable and non-programmable configurations. All units have a user definable differential temperature setting and keypad lock. Temperature limitation, TPI and Delay Start is available in some models.

PRODUCT CODE

CRT2

Mains Operated Non Programmable



PRODUCT CODE	POWER SUPPLY	SWITCH RATING	CONTACT TYPE
CDT2	230Vac ±10%	8A 230Vac	SPDT Volt Free
CDT2-24	24Vac ±10%	8A 24Vac	SPDT Volt Free

TPi function + on/off control



	SENSOR TYPE	AMBIENT TEMP RANGE	ADJUSTABLE SWITCHING DIFFERENTIAL
_	NTC10K	5-35°C	0.2 - 1.0°C

Battery Operated Non Programmable



TPi function + on/off control



SENSOR TYPE	TEMP RANGE	ADJUSTABLE SWITCHING DIFFERENTIAL
NTC10K	5-35°C	0.2 - 1.0°C

SWITCH RATING

8A 230Vac

CONTACT TYPE

SPDT Volt Free

POWER SUPPLY

2 x AA Batteries (Incl.)

Mains Operated Programmable

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POWER SUPPLY	SWITCH RATING	CONTACT TYPE
230Vac ±10%	8A 230Vac	SPDT
TEMP RANGE	ADJUSTABLE SWITCH	ING DIFFERENTIAL

Battery Operated Programmable





PRODUCT CODE	POWER SUPPLY	SWITCH RATING	CONTACT TYPE
CRTP	2 x AA Batteries (Incl.)	8A 230Vac	SPDT

SENSOR TYPE	TEMP RANGE	ADJUSTABLE SWITCHING DIFFERENTIAL
NTC10K	5-35°C	0.2-1.0°C

Delay Start Thermostat



PRODUCT CODE	POWER SUPPLY	SWITCH RATING	SWITCH OUTPUT
CDT2-DS	230Vac ±10%	8A 230Vac	SPDT Volt Free
CRT2-DS	2 x AA Batteries (Incl.)	8A 230Vac	SPDT Volt Free

TPi function, Delay Start, On/Off Control



SENSOR TYPE	TEMP RANGE	ADJUSTABLE SWITCHING DIFFERENTIAL				
NTC10K	5-35°C	0.2 - 1.0°C				

Digital Cylinder Thermostat



PRODUCT CODE	POWER SUPPLY	SWITCH RATING	SWITCH OUTPUT	
CDC	230Vac ±10%	8A 230Vac	SPDT VoltFree	

SENSOR TYPE	TEMP RANGE	ADJUSTABLE SWITCHING DIFFERENTIAL
NTC10K	10-90°C	2-10°C

CUSTOM PACKS A $\sqrt{2222P \times 2}$ R27-HW $\times 1$ CM2 $\times 1$ WRP \times^{1} B $\sqrt{228P \times 3}$ R37-HW $\times 1$ CM2 $\times 2$ WC2 $\times 1$ C $\sqrt{221P \times 4}$

Heating Control Packs – Hardwired

EPH Controls understands that with ever changing demands on the installer, standard control packs will not cover every installation. With this in mind, we offer a tailor made control pack solution allowing the customer to choose the components required for the task at hand.

Please refer to the Control Pack Coding System on page 23. This will allow you to formulate the correct code for the control pack you require.

Y Plan Heating Control Pack



PRODUCT CODE	COMPRESSION MOTORISED VALVE	PROGRAMMER	THER	MOSTAT	WIRING CENTRE
CR22P	B322P x 1	R27-HW x 1	CM2 x 1	WRP x 1	WC2 x1
CR28P	B328P x 1	R27-HW x 1	CM2 x 1	WRP x 1	WC2 x1

S Plan Heating Control Pack



PRODUCT CODE	COMPRESSION MOTORISED VALVE	PROGRAMMER	THERMOSTAT		WIRING CENTRE
CR221P	V221P x 2	R27-HW x 1	CM2 x 1	WRP x 1	WC2 x1
CR222P	V222P x 2	R27-HW x 1	CM2 x 1	WRP x 1	WC2 x1
CR228P	V228P x 2	R27-HW x 1	CM2 x 1	WRP x 1	WC2 x1
CR221PU	V221P x 1	R27-HW x 1	CM2 x 1	-	WC2 x1
CR222PU	V222P x 1	R27-HW x 1	CM2 x 1	-	WC2 x1
CR228PU	V228P x 1	R27-HW x 1	CM2 x 1	-	WC2 x1

3 Zone Heating Control Pack

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PRODUCT CODE	COMPRESSION MOTORISED VALVE	PROGRAMMER	THERMOSTAT		WIRING CENTRE
CR3P	V221P x 3	R37-HW x 1	CM2 x 2	WRP x 1	WC2 x1
CR322P	V222P x 3	R37-HW x 1	CM2 x 2	WRP x 1	WC2 x1
CR328P	V228P x 3	R37-HW x 1	CM2 x 2	WRP x 1	WC2 x1
CR3PU	V221P x 2	R37-HW x 1	CM2 x 2	-	WC2 x1
CR322PU	V222P x 2	R37-HW x 1	CM2 x 2	-	WC2 x1
CR328PU	V228P x 2	R37-HW x 1	CM2 x 2	-	WC2 x1

4 Zone Heating Control Pack

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PRODUCT CODE	COMPRESSION MOTORISED VALVE	PROGRAMMER	THERMOSTAT		WIRING CENTRE
CR4P	V221P x 4	R47 x 1	CM2 x 3	WRP x 1	WC2 x1
CR422P	V222P x 4	R47 x 1	CM2 x 3	WRP x 1	WC2 x1
CR428P	V228P x 4	R47 x 1	CM2 x 3	WRP x 1	WC2 x1
CR421PU	V221P x 3	R47 x 1	CM2 x 3	-	WC2 x1
CR422PU	V222P x 3	R47 x 1	CM2 x 3	-	WC2 x1
CR428PU	V228P x 3	R47 x 1	CM2 x 3	-	WC2 x1

2 Zone Combi Zoning Control Pack



PRODUCT CODE	COMPRESSION MOTORISED VALVE	PROGRAMMER	THERMOSTAT	WIRING CENTRE
CR5P-212201	V221P x 2	R27 x 1	CM2 x 2 -	WC2 x1
CR5P-222201	V222P x 2	R27 x 1	CM2 x 2 -	WC2 x1

3 Zone Combi Zoning Control Pack



PRODUCT CODE	COMPRESSION MOTORISED VALVE	PROGRAMMER	THERMOST	AT	WIRING CENTRE
CR6P-313201	V221P x 3	R37 x 1	CM2 x 3	-	WC2 x1
CR6P-323201	V222P x 3	R37 x 1	CM2 x 3	-	WC2 x1

Wiring Centre

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PRODUCT CODE	TERMINALS
WC2	12
WC3	16



EMBER Smart Heating Control

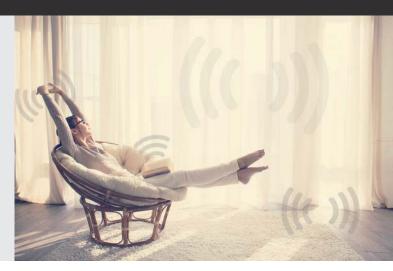
Control your heating system – anwhere, anytime with EMBER from EPH Controls. The system is comprised of WiFi ready RF thermostats & programmers which connect to your router via a WiFi gateway.

With this free App it is possible to control multiple homes, add multiple users, boost, change schedules, activate holiday mode and much more.



RF Thermostats & Gateway

EPH Controls' new range of 2 way RF controls offer a stylish and reliable alternative to traditional hardwired systems. Room & pipe / cylinder thermostats are available with market leading transmission of RF signal and a simple user interface. These components are WiFi ready and can be integrated with the EMBER heating control App to provide you total control of your heating system anywhere, anytime. This is possible by using the EPH WiFi gateway which may be paired with RF thermostats & programmers.



MOUNTING TYPE

wall

RF Room / Cylinder Thermostat



For use with: R 7-RF | RF1 | EMBER



PRODUCT CODE	TYPE	TEMP RANGE	MOUNTING TYPE
RFR	Room thermostat	5-35°C	wall or free standing
RFRA	Room thermostat	5-35°C	wall or free standing
RFC	Cylinder thermostat	10-90°C	wall with 1.5m cable sensor
RF RANGE	AMBIENT TEMP RANGE	DIMENSION	POWER SUPPLY
Max 30m	0-50°C	86 x 86 x 25mm	2 x AAA (incl.)

1 Zone RF Receiver



RF

8A

CONTACT RATING

For use with: RFR | RFC | EMBER



RF RANGE	AMBIENT TEMP RANGE	DIMENSION	POWER SUPPLY
Max 30m	0-50°C	84 x 84 x 30mm	230Vac ±10%

Gateway



For use with: R_7-RF | EMBER | RFR | RFC



PRODUCT CODE	TYPE	POWER SUPPLY	MOUNTING TYPE
GW01	RF/WiFi Interface	230Vac ±10%	wall or free standing

RF RANGE AMBIENT TEMP RANGE Max 30m 0-50°C

TYPE

1 Zone RF Receiver

PRODUCT CODE

RF1

RF Programmers

1 Zone Timeswitch



For use with: RFR | RFC | EMBER Programming Mode: 5/2d - 7d - 24h

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2 Zone Programmer



For use with: RFR | RFC | EMBER Programming Mode: 5/2d - 7d - 24h



3 Zone Programmer



For use with: RFR | RFC | EMBER Programming Mode: 5/2d - 7d - 24h



4 Zone Programmer



For use with: RFR | RFC | EMBER Programming Mode: 5/2d - 7d - 24h



PRODUCT CODE	NUMBER OF CHANNELS	SWITCH OUTPUT	BACKPLATE TYPE
R17-RF	1	Volt Free SPDT	6 pin
SWITCH RATING	AMBIENT TEMP RANGE	SCREEN DIMENSION	OPERATING PERIODS
5(3)A 230Vac	0-50°C	100 x 35mm	3 per day

PRODUCT CODE	NUMBER OF CHANNELS	SWITCH OUTPUT	BACKPLATE TYPE
R27-RF	2	230Vac SPDT	6 pin

SWITCH RATING	MAX AMBIENT TEMP RANGE	SCREEN DIMENSION	OPERATING PERIODS
5(3)A 230Vac	0-50°C	100 x 35mm	3 per day

PRODUCT CODE	NUMBER OF CHANNELS	SWITCH OUTPUT	BACKPLATE TYPE
R37-RF	3	230Vac SPDT	8 pin

SWITCH RATING	MAX AMBIENT TEMP RANGE	SCREEN DIMENSION	OPERATING PERIODS
5(3)A 230Vac	0-50°C	100 x 35mm	3 per day

PRODUCT CODE	NUMBER OF CHANNELS	SWITCH OUTPUT	BACKPLATE TYPE
R47-RF	4	230Vac SPST	8 pin

SWITCH RATING	MAX AMBIENT TEMP RANGE	SCREEN DIMENSION	OPERATING PERIODS
5(3)A 230Vac	0-50°C	100 x 35mm	3 per day

Non Programmable RF Thermostat & Receiver

	PRODUCT CODE	PRODUCTS	SWITCH RATING	CONTACT TYPE
	CombiPack1	TRFi & WRS1i	8A 230Vac	SPDT Volt free
	SENSOR TYPE	TEMP RANGE	IP RATING	ADJUSTABLE SWITCHING
				DIFFERENTIAL
🛞 🗿 () 🤇 E	NTC10K	5-35°C	IP20	0.2-1.0°C

PRODUCTS

5-35°C

PRODUCTS

RFCA & RF1

PRODUCT CODE

NTC10K

PRODUCT CODE

RFCP

Programmable RF Thermostat & Receiver

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SWITCH RATING

CONTACT TYPE

SWITCH OUTPUT

SPDT Volt Free

Non Programmable RF Thermostat & Receiver

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PRODUCT CODE	PRODUCTS	SWITCH RATING	SWITCH OUTPUT
CombiPack3	RFRA & RF1	8A 230Vac	SPDT Volt Free
SENSOR TYPE	TEMP RANGE	ON/OFF BUTTON	

Yes

SWITCH RATING

8A 230Vac

RF Cylinder Thermostat & Receiver

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SENSOR TYPE	TEMP RANGE	BOOST BUTTON
NTC10K	10-90°C	Yes



RF TRV Packs



Combi TRV Pack I



PRODUCT CODE	ROOM STAT	RECEIVER	TRVS	DRAIN OFF VALVE
CombiTRVPack1	TRFi x 1	WRS1i x 1	EMTRV x 5	DOV x 1

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Combi TRV Pack 2



PRODUCT CODE	ROOM STAT	RECEIVER	TRVS	DRAIN OFF VALVE
CombiTRVPack2	TRFPi x 1	WRS1i x 1	EMTRV x 5	DOV x 1

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Combi TRV Pack 3



PRODUCT CODE	ROOM STAT	RECEIVER	TRVS	DRAIN OFF VALVE
CombiTRVPack3	RFRA x 1	RF1 x 1	EMTRV x 5	DOV x 1



Y Plan RF Heating Control Pack



PRODUCT CODE COMPRESSION PROGRAMMER THERMOSTAT WIRING CENTRE MOTORISED VALVE CR22PRF B322P x 1 R27-RF x 1 RFR x 1 RFC x 1 WC2 x1 CR28PRF B328P x 1 R27-RF x 1 RFR x 1 RFC x 1 WC2 x1

S Plan RF Heating Control Pack



3 Zone RF Heating Control Pack





PRODUCT CODE	COMPRESSION MOTORISED VALVE	PROGRAMMER	THER	MOSTAT	WIRING CENTRE
CR221PRF	V221P x 2	R27-RF x 1	RFR x 1	RFC x 1	WC2 x1
CR222PRF	V222P x 2	R27-RF x 1	RFR x 1	RFC x 1	WC2 x1
CR228PRF	V228P x 2	R27-RF x 1	RFR x 1	RFC x 1	WC2 x1
CR221PURF	V221P x 1	R27-RF x 1	RFR x 1	-	WC2 x1
CR222PURF	V222P x 1	R27-RF x 1	RFR x 1	-	WC2 x1
CR228PURF	V228P x 1	R27-RF x 1	RFR x 1	-	WC2 x1

PRODUCT CODE	COMPRESSION MOTORISED VALVE	PROGRAMMER	THER	MOSTAT	WIRING CENTRE
CR3PRF	V221P x 3	R37-RF x 1	RFR x 2	RFC x 1	WC2 x1
CR322PRF	V222P x 3	R37-RF x 1	RFR x 2	RFC x 1	WC2 x1
CR328PRF	V228P x 3	R37-RF x 1	RFR x 2	RFC x 1	WC2 x1
CR3PURF	V221P x 2	R37-RF x 1	RFR x 2	-	WC2 x1
CR322PURF	V222P x 2	R37-RF x 1	RFR x 2	-	WC2 x1
CR328PURF	V228P x 2	R37-RF x 1	RFR x 2	-	WC2 x1

4 Zone RF Heating Control Pack

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PRODUCT CODE	COMPRESSION MOTORISED VALVE	PROGRAMMER	THER	MOSTAT	WIRING CENTRE
CR4PRF	V221P x 4	R47-RF x 1	RFR x 3	RFC x 1	WC2 x1
CR422PRF	V222P x 4	R47-RF x 1	RFR x 3	RFC x 1	WC2 x1
CR428PRF	V228P x 4	R47-RF x 1	RFR x 3	RFC x 1	WC2 x1
CR4PURF	V221P x 3	R47-RF x 1	RFR x 3	-	WC2 x1
CR422PURF	V222P x 3	R47-RF x 1	RFR x 3	-	WC2 x1
CR428PURF	V228P x 3	R47-RF x 1	RFR x 3	-	WC2 x1

2 Zone Combi Zoning RF Control Pack





3 Zone Combi Zoning RF Control Pack



PRODUCT CODE	COMPRESSION MOTORISED VALVE	PROGRAMMER	THERMOSTAT	WIRING CENTRE
CRF3P-313201	V221P x 3	R37-RF x 1	RFR x 3 -	WC2 x1
CRF3P-323201	V222P x 3	R37-RF x 1	RFR x 3 -	WC2 x1

S Plan RF Heating Control Pack with Hardwired Cylinder Thermostat



PRODUCT CODE	COMPRESSION MOTORISED VALVE	PROGRAMMER	THER	MOSTAT	WIRING CENTRE
CRF2P-211221	V221P x 2	R27-RF x 1	RFR x 1	WRP x 1	WC2 x1
CRF2P-221221	V222P x 2	R27-RF x 1	RFR x 1	WRP x 1	WC2 x1



3 Zone RF Heating Control Pack with Hardwired Cylinder Thermostat

	PRODUCT CODE	COMPRESSION MOTORISED VALVE	PROGRAMMER	THER	MOSTAT	WIRING CENTRE
1	CRF3P-312221	V221P x 3	R37-RF x 1	RFR x 2	WRP x 1	WC2 x1
	CRF3P-322221	V222P x 3	R37-RF x 1	RFR x 2	WRP x 1	WC2 x1



RF Programmer Packs

EPH Controls' RF Programmer packs provide a 1 - 4 zone solution for RF zoning. All of these products are also WiFi ready so can be controlled via EMBER heating control app with the addition of the WiFi gateway. This offers a simple and convenient solution to installations where time and temperature control is required via smart app.

1 Zone Wireless Control Pack



PRODUCT CODE	PROGRAMMER	THERMO	DSTAT
CWP1E	R17-RF x 1	RFR x 1	-

2 Zone Wireless Control Pack



PRODUCT CODE	PROGRAMMER	THER	MOSTAT
CWP2E	R27-RF x 1	RFR x 1	RFC x 1
CWP2CE	R27-RF x 1	RFR x 1	-

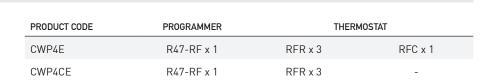
3 Zone Heating Control Pack



PRODUCT CODE	PROGRAMMER	THERM	MOSTAT	
CWP3E	R37-RF x 1	RFR x 2	RFC x 1	
CWP3CE	R37-RF x 1	RFR x 2	-	

4 Zone Heating Control Pack





Thermostatic Radiator Controls

TRV Twin Pack – Angled				
5 ⁵ ▲	PRODUCT CODE	CONNECTION TYPE	BI DRECTIONAL	ACCESSORIES
	EMTRV	15mm compression	Yes	2 x 1/2" olives
	SENSOR TYPE	TEMP RANGE	MAX. DIFFERENTIAL F	PRESSURE
⊛ 靠 С €	Liquid filled	7-28°C	0.6 bar	
TRV Twin Pack – Straight				
	PRODUCT CODE	CONNECTION TYPE	BI DRECTIONAL	
-	SEMTRV	15mm compression	No	
	SENSOR TYPE	TEMP RANGE	MAX. DIFFERENTIAL F	PRESSURE
₩ C €	SENSOR TYPE	TEMP RANGE 7-28°C	MAX. DIFFERENTIAL F	PRESSURE
TRV Single Pack – Angled		· · · · · · · · · · · · · · · · · · ·		PRESSURE
		· · · · · · · · · · · · · · · · · · ·		PRESSURE
	Liquid filled	7-28°C	0.6 bar	
TRV Single Pack - Angled	Liquid filled	7-28°C CONNECTION TYPE	0.6 bar BI DRECTIONAL	ACCESSORIES 1 x 1/2" olives

TRV Twin Pack - Angled Components



₩ (€

PRODUCT CODE	CONNECTION TYPE	BI DRECTIONAL	DESCRIPTION
TRVB	15mm compression	Yes	TRV valve
TRV	-	-	Thermostatic Head
LSV	15mm compression	Yes	Lockshield valve
SENSOR TYPE	TEMP RANGE	MAX. DIFFERENTIAL P	RESSURE
Liquid filled	7-28°C	0.6 bar	

Thermostatic Radiator Controls

TRV Twin Pack - 10mm Angled



CONNECTION TYPE	BI DIRECTIONAL	
10mm Compression	Yes	
TEMP RANGE	MAX. DIFFERENTIAL PRESSURE	

TRV Single Pack - 10mm Angled



PRODUCT CODE	CONNECTION TYPE	BI DIRECTIONAL
CTRV10	10mm Compression	Yes
SENSOR TYPE	TEMP RANGE	MAX. DIFFERENTIAL PRESSURE
Liquid filled	7-28°C	0.6bar

TRV Twin Pack - Chrome Angled



PRODUCT CODE	CONNECTION TYPE	BIDIRECTIONAL
EMTRV15C	15mm Compression	Yes
SENSOR TYPE	TEMP RANGE	MAX. DIFFERENTIAL PRESSURE
Liquid filled	7-28°C	0.6bar

TRV Single Pack - Chrome Angled



PRODUCT CODE	CONNECTION TYPE	BI DIRECTIONAL
CTRV15C	15mm Compression	Yes
SENSOR TYPE	TEMP RANGE	MAX. DIFFERENTIAL PRESSURE
Liquid filled	7-28°C	0.6bar

TRV Twin Pack - Chrome Straight



PRODUCT CODE	CONNECTION TYPE	BI DIRECTIONAL	
SEMTRV15C	15mm Compression	Yes	
SENSOR TYPE	TEMP RANGE	MAX. DIFFERENTIAL PRESSURE	
Liquid filled	7-28°C	0.6bar	

Thermostatic Radiator Controls – Commercial



TRV Twin Pack - Female BSP

- 71	PRODUCT CODE	CONNECTION TYPE	BI DRECTIONAL
	EMTRVBF15	1/2" Female BSP	No
	EMTRVBF20	3/4" Female BSP	No
8 E	SENSOR TYPE	TEMP RANGE	MAX. DIFFERENTIAL PRESSURE
(€	Liquid Filled	7-28°C	0.6 bar
TRV Single Pack Female BSP			
	PRODUCT CODE	CONNECTION TYPE	BI DRECTIONAL
	CTRVBF15	1/2" Female BSP	No
	SENSOR TYPE	TEMP RANGE	MAX. DIFFERENTIAL PRESSURE
₩ (€	Liquid Filled	7-28°C	0.6 bar
TRV Body – Female BSP			
	PRODUCT CODE	CONNECTION TYPE	BI DRECTIONAL
	TRVBF20	3/4" Female BSP	No
	MAX. DIFFERENTIAL F	PRESSURE	
CE	0.6 bar		
Lockshield Valve – Female BSP			



PRODUCT CODE	CONNECTION TYPE	BIDRECTIONAL
LSVF15	1/2" Female BSP	No
LSVF20	3/4" Female BSP	No

MAX. DIFFERENTIAL PRESSURE

0.6 bar

Radiator Controls – Accessories

PRODUCT CODE

DOV

CE

CE

DESCRIPTION

15mm Drain off valve

1

Finish: Polished Chrome

Push Fit Elbow



PRODUCT CODE	DESCRIPTION	PACK QUANTITY
PFE10	15mm x10mm Push fit elbow	2 pieces

PACK QUANTITY

1 piece

Finish: Polished Chrome

Lockshield Drain Off Valve



PRODUCT CODE	DESCRIPTION	PACK QUANTITY
LSDOV	15mm Lockshield drain off valve	1 piece

Finish: Chrome

CE

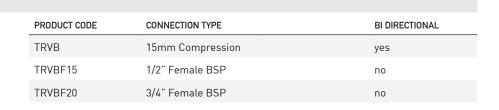
CE

CE

TRV Body - 15mm Compression



Max. Differential Pressure: 0.6 bar



Thermal Actuator



PRODUCT CODE	POWER SUPPLY	NORMALLY	RUNNING TIME
TA24	24Vac	Closed (open)	4.5 min
TA230	230Vac	Closed (open)	3.5 min
MAX. STROKE	AMBIENT TEMP RANGE	SPRING PRESSURE	
4.5mm	0-50°C	125N	

Create control packs to suit your own specific requirements

CONTROL PACK	PROGRAMMER			MOTORISED VALVES	ROOM STATS		CYLINDER STATS	WIRING CENTRE
CODE	TYPE	-	QTY	MODEL	QTY	MODEL	MODEL	MODEL
CO	OP = None	-	0 = 0	0 = None	0 = 0	0 = None	0 = None	0 = None
CR	1P = R17, 1 Channel, Zone 1	-	1 = 1	1 = 3/4" Compression 2 port	1 = 1	2 = CM2	1 = WRP	1 = WC2
CR	2P = R27-HW, 2 Channel,HW/CH	-	2 = 2	2 = 22mm Compression 2 port	2 = 2	3 = CM3	2 = CDC	2 = WC3
CR	3P = R37-HW, 3 Channel,HW/CH1/CH2	-	3 = 3	3 = 28mm Compression 2 port	3 = 3	4 = CDT2	3 = WRP-IM	
CR	4P = R47, 4 Channel, Zone 1/2/3/4	-	4 = 4	4 = 3/4" Female BSP 2 port	4 = 4	5 = CMT	4 = WP-IM-TP	
CR	5P = R27, 2 Channel, Zone 1/2	-		5 = 1" Female BSP 2 port		6 = CRT2	5 = WRP-TP	
CR	6P = R37, 3 Channel, Zone 1/2/3			6 = 22mm Compression 3 port		7 = CDTP	6 = DBS	
				7 = 28mm Compression 3 port		8 = CRTP		
						9 = CDT2-DS		

Harwired Control Pack Coding System

RF Control Pack Coding System

CONTROL PACK	PROGRAMMER		MOTORISED VALVES		R	00M STATS	CYLINDER STATS	WIRING CENTRE
CODE	ТҮРЕ	-	QTY	MODEL	QTY	MODEL	MODEL	MODEL
CO	0P = None	-	0 = 0	0 = None	0 = 0	0 = None	0 = None	0 = None
CRF	1P = R17-RF, 1 Channel	-	1 = 1	1 = 3/4" Compression 2 port	1 = 1	2 = RFR	1 = RFC	1 = WC2
CRF	2P = R27-RF, 2 Channel	-	2 = 2	2 = 22mm Compression 2 port	2 = 2	3 = CM2	2 = WRP	2 = WC3
CRF	3P = R37-RF, 3 Channel	-	3 = 3	3 = 28mm Compression 2 port	3 = 3	4 = CM3	3 = WRP-IM	
CRF	4P = R47-RF, 4 Channel	-	4 = 4	4 = 3/4" Female BSP 2 port	4 = 4		4 = WP-IM-TP	
				5 = 1" Female BSP 2 port			5 = WRP-TP	
				6 = 22mm Compression 3 port			6 = DBS	
				7 = 28mm Compression 3 port				



5 year warranty



Battery operated Cable sensor



Detachable actuator

EMBER App

Frost protection

Indicator light

Keypad lock



USA

Limitable temperature range

Mains operated

Max 30M distance

Motor made in USA

Legend



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