

STUART CIRCULATORS



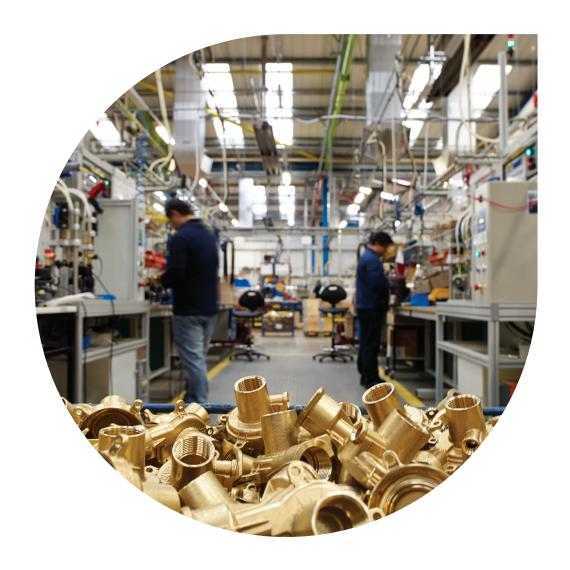
ABOUT US

We are a UK manufacturer of pump and water boosting solutions with an unprecedented reputation for product quality, reliability, innovation and customer service.

Customers can expect nothing but the best product, using the latest technology, manufactured to the highest quality standards, resulting in the most reliable solution available.

Most installations can be satisfied from our standard range of products, however, if you need a more tailored solution, our unique manufacturing facility combined with our technical expertise means we can provide bespoke options specifically aimed at commercial and OEM markets.

Telephone: TechAssist +44 (0) 800 31 969 80 e-mail info@stuart-turner.co.uk or visit the support section of the Stuart Turner website to find our specialist in your area. stuart-turner.co.uk



UNRIVALLED SUPPORT

We are specialists in our field, with a dedicated team able to offer help at every stage.

DESIGN EXPERTISE

Our expert team can conduct a detailed analysis of the performance requirements of the intended project to produce a fully costed proposal. All our systems are custom designed in-house using the latest CAD software to develop, evaluate and aid the design of the most efficient solution for your specific needs.



COMMISSIONING

We provide a full commissioning service on all our systems and are available to advise on the installation of your system should you require our technical help or practical expertise.



MANUFACTURING EXCELLENCE

We have invested in the latest production and manufacturing technologies to ensure we work to the highest quality standards. This guarantees our system reliability whilst at the same time minimising costs, improving efficiency and delivering on time and in full.



MAINTENANCE

Ongoing maintenance is a cost-effective solution to prolonging the life of your system and maximising its operational efficiency. To ensure the system continues to operate effectively and reliably we can also offer a comprehensive maintenance and service contract.



TECHNICAL TRAINING

We offer a range of CPD courses aimed at building service engineers and accredited by CIBSE - Chartered Institution of Building Service Engineers. CIBSE is an internationally recognised professional association that supports construction and engineering industries by delivering up-to-date knowledge of the built environment to its membership through training and education.

Visit the CIBSE website for further details.



ON-GOING SUPPORT

The quality and reliability of our products and services are second to none, allowing you peace of mind when you specify Stuart Turner. However, should you experience any issues we have a dedicated team of technical experts available to help. The TechAssist team are available to offer technical advice or guidance on any aspect of product selection.

Technical helpline:

TechAssist 0800 31 969 80



INTRODUCING

STUART CIRCULATORS

NEVER MISS A BEAT

Electronically controlled high-efficiency circulators for heating, air conditioning, cooling and sanitary water.

Stuart Circulators are used for the transfer of liquid medium within systems for hot-water, heating, air-conditioning and ventilation. With five different control modes plus an automatic operation function and an EEI rating from just 0.18 Stuart Circulators are ErP compliant.









INTRODUCING

STUART **PULSE**

- HIGH EFFICIENCY & ERP COMPLIANT EEI RATING FROM 0.20
- FLOW RATES UP TO 12 M³
- ▶ UPTO 12 M HEAD
- FIXED AND PROPORTIONAL PRESSURE CONTROL
- 5 OPERATING MODES INCLUDING AUTOMATIC AND NIGHT SETBACK

PREMIUM HIGH EFFICIENCY CAST IRON & BRONZE VARIANTS

UNION & FLANGE OPTIONS

EASY TO USE LED INTERFACE WITH PUSH BUTTON CONTROLS

Designed as single or twin head circulators with electronically controlled variable speeds, the pump constantly measures pressure and flow, adjusting the speed depending on requirement and selected mode.

The high efficiency wet rotor technology provides reliable solutions for heating, air-conditioning, closed cooling and industrial systems in accordance with BS 7593.

DIGITAL OPERATING MODES



(A) Automatic mode

In automatic mode the pump automatically sets the operating pressure, depending on the hydraulic system. By doing so, the pump finds the optimal operating position.



Proportional pressure

The pump maintains the pressure with relation to the current flow. The pressure is equal to the set pressure. In between, the pressure changes linearly relative to the flow.



Constant pressure

In this mode the pump maintains the set pressure, from zero flow to maximum power, where the pressure begins to drop.



(h) Constant speed

The pump operates and maintains the chosen set speed.



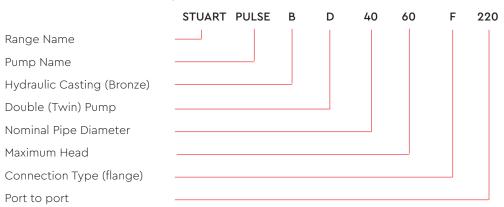
Night mode

When the pump is operating in night mode, it automatically switches between the current mode and night mode. Switching occurs based on the temperature of the medium. If the pump senses a drop in temperature of the medium of 15 -20 °C (in a 2 hour time frame) the pump switches to night mode. When the temperature of the medium rises, the pump goes back to previous operation mode.



GOOD TO KNOW

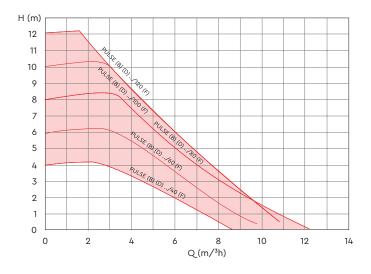
Product Code Structure Example:



STUART PULSE cast iron circulator - single

STUART PULSE cast iron circulators are used for the transfer of water within systems for hot-water heating, air-conditioning and ventilation.

They are available either as a single or twin variable speed pump, designed to constantly monitor and regulate pressure and flow and adjust according to the set pump mode.





- HIGH EFFICIENCY EEI RATING FROM 0.20
- FLOW RATES UP TO 12 M³
- ▶ UP TO 12 M HEAD
- INSULATION SHELL AS STANDARD

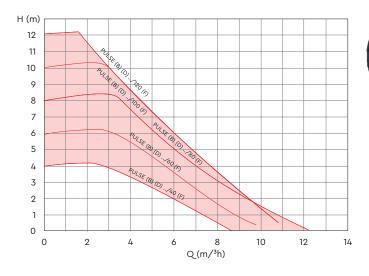
- ► FIXED AND PROPORTIONAL PRESSURE CONTROL
- ▶ 5 OPERATING MODES INCLUDING AUTOMATIC MODE
- NIGHT SET BACK FEATURE

Part No	Model	Port to Port	Connections
47398	STUART PULSE 25/40-180	180 mm	G 1 ½
47399	STUART PULSE 25/60-180	180 mm	G 1 ½
47400	STUART PULSE 25/80-180	180 mm	G 1 ½
47401	STUART PULSE 25/100-180	180 mm	G 1 ½
47402	STUART PULSE 25/120-180	180 mm	G 1 ½
47403	STUART PULSE 32/40-180	180 mm	G 2
47404	STUART PULSE 32/60-180	180 mm	G 2
47405	STUART PULSE 32/80-180	180 mm	G 2
47406	STUART PULSE 32/100-180	180 mm	G 2
47407	STUART PULSE 32/120-180	180 mm	G 2

STUART PULSE cast iron circulator - twin

STUART PULSE Cast Iron Circulators are used for the transfer of water within systems for hot-water heating, air-conditioning and ventilation.

They are available either as a single or twin variable speed pump, designed to constantly monitor and regulate pressure and flow and adjust according to the set pump mode.





- HIGH EFFICIENCY EEI RATING FROM 0.20
- FLOW RATES UP TO 12 M³
- UP TO 12 M HEAD
- INSULATION SHELL AS STANDARD

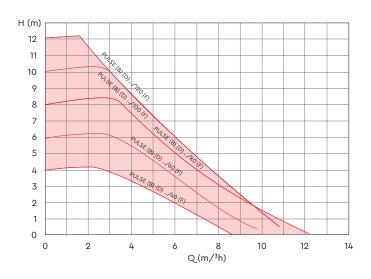
- ► FIXED AND PROPORTIONAL PRESSURE CONTROL
- ▶ 5 OPERATING MODES INCLUDING AUTOMATIC MODE
- NIGHT SET BACK FEATURE

Part No	Model	Port to Port	Connections
47420	STUART PULSE D 32/40-180	180 mm	G 2
47421	STUART PULSE D 32/60-180	180 mm	G 2
47422	STUART PULSE D 32/80-180	180 mm	G 2
47423	STUART PULSE D 32/100-180	180 mm	G 2
47424	STUART PULSE D 32/120-180	180 mm	G 2
47425	STUART PULSE D 40/40-F220	220 mm	DN 40
47426	STUART PULSE D 40/60-F220	220 mm	DN 40
47427	STUART PULSE D 40/80-F220	220 mm	DN 40
47428	STUART PULSE D 40/100-F220	220 mm	DN 40
47429	STUART PULSE D 40/120-F220	220 mm	DN 40

STUART PULSE cast iron flanged circulator

STUART PULSE cast iron flanged circulators are ideal for hot and cold water transfer with in-line connections directly within systems for hot-water heating, air-conditioning and ventilation.

They are available in either single or twin variable speed options, designed to constantly monitor and regulate pressure and flow and adjust according to the set pump mode.





- ► HIGH EFFICIENCY EEI RATING FROM 0.20
- ► FLOW RATES UP TO 12 M³
- ▶ UP TO 12 M HEAD
- ► INSULATION SHELL AS STANDARD

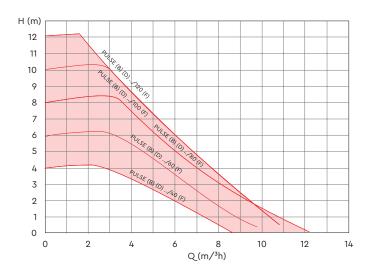
- ▶ FIXED AND PROPORTIONAL PRESSURE CONTROL
- ▶ 5 OPERATING MODES INCLUDING AUTOMATIC MODE
- ► NIGHT SET BACK FEATURE

Part No	Model	Port to Port	Connections
47408	STUART PULSE 32/40-F220	220 mm	DN 32
47409	STUART PULSE 32/60-F220	220 mm	DN 32
47410	STUART PULSE 32/80-F220	220 mm	DN 32
47411	STUART PULSE 32/100-F220	220 mm	DN 32
47412	STUART PULSE 32/120-F220	220 mm	DN 32
47413	STUART PULSE 40/40-F220	220 mm	DN 40
47414	STUART PULSE 40/60-F220	220 mm	DN 40
47415	STUART PULSE 40/80-F220	220 mm	DN 40
47416	STUART PULSE 40/100-F220	220 mm	DN 40
47417	STUART PULSE 40/120-F220	220 mm	DN 40
47418	STUART PULSE 50/100-F240	240 mm	DN 50
47419	STUART PULSE 50/120-F240	240 mm	DN 50

STUART PULSE cast iron flanged circulator

STUART PULSE cast iron flanged circulators are ideal for hot and cold water transfer with in-line connections directly within systems for hot-water heating, air-conditioning and ventilation.

They are available in either single or twin variable speed options, designed to constantly monitor and regulate pressure and flow and adjust according to the set pump mode.





- HIGH EFFICIENCY EEI RATING FROM 0.20
- FLOW RATES UP TO 12 M³
- UP TO 12 M HEAD
- INSULATION SHELL AS STANDARD

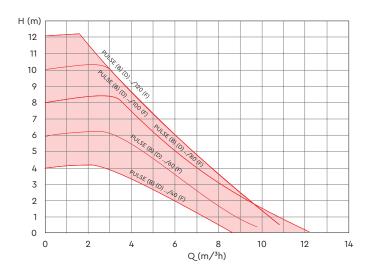
- ► FIXED AND PROPORTIONAL PRESSURE CONTROL
- 5 OPERATING MODES INCLUDING AUTOMATIC MODE
- NIGHT SET BACK FEATURE

Part No	Model	Port to Port	Connections
47425	STUART PULSE D 40/40-F220	220 mm	DN 40
47426	STUART PULSE D 40/60-F220	220 mm	DN 40
47427	STUART PULSE D 40/80-F220	220 mm	DN 40
47428	STUART PULSE D 40/100-F220	220 mm	DN 40
47429	STUART PULSE D 40/120-F220	220 mm	DN 40

STUART PULSE bronze secondary circulator

STUART PULSE bronze circulators feature a robust bronze pump housing and are ideal for the transfer of liquid within systems for hot-water heating, air-conditioning and ventilation.

These pumps feature variable speed controls to constantly measure pressure and flow and adjust the speed according to the set pump mode.

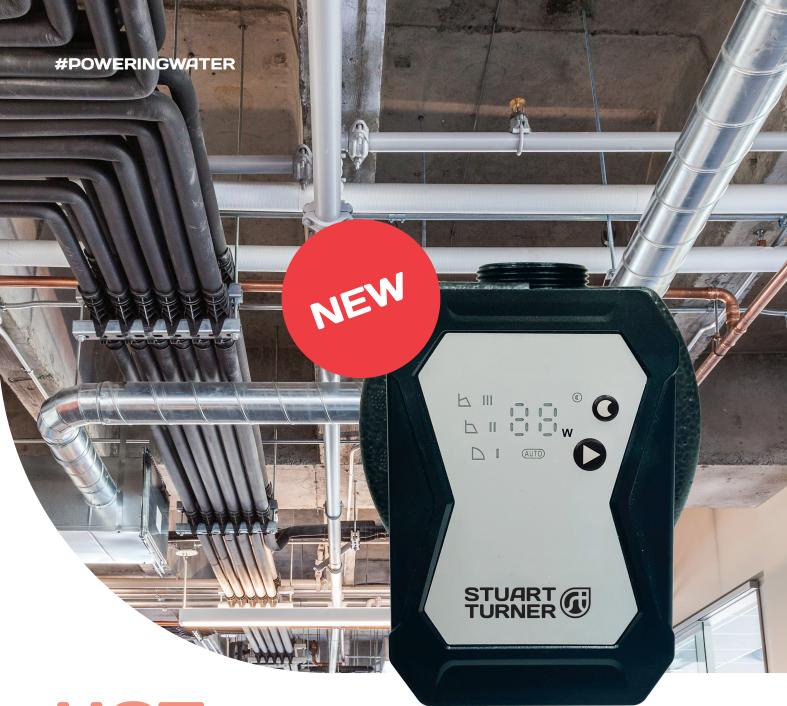




- ► HIGH EFFICIENCY EEI RATING FROM 0.20
- ► FLOW RATES UP TO 12 M³
- ▶ UPTO 12 M HEAD
- ► INSULATION SHELL AS STANDARD

- ▶ FIXED AND PROPORTIONAL PRESSURE CONTROL
- ▶ 5 OPERATING MODES INCLUDING AUTOMATIC MODE
- ► NIGHT SET BACK FEATURE

Part No	Model	Port to Port	Connections
47430	STUART PULSE B 25/40-180	180 mm	G 1 ½
47431	STUART PULSE B 25/60-180	180 mm	G 1 ½
47432	STUART PULSE B 25/80-180	180 mm	G 1 ½
47433	STUART PULSE B 25/100-180	180 mm	G 1 ½
47434	STUART PULSE B 25/120-180	180 mm	G 1 ½
47435	STUART PULSE B 32/40-180	180 mm	G 2
47436	STUART PULSE B 32/60-180	180 mm	G 2
47437	STUART PULSE B 32/80-180	180 mm	G 2
47438	STUART PULSE B 32/100-180	180 mm	G 2
47439	STUART PULSE B 32/120-180	180 mm	G 2



HOT WATER SORTED.

STUART HEATING & HOT WATER CIRCULATORS

Introducing the NEW STUART PULSE TRADE 25/60-130 premium circulator. Featuring automatic adapt, proportional pressure, constant pressure and constant speed operating modes and a 5 year warranty.

Explore the range at stuart-turner.co.uk/stuart



STUART PULSE RANGE REPLACEMENT GUIDE

Part No	Model	Port to Port	Connection Type	Connection Size
47398	STUART PULSE 25/40-180	180 mm	Threaded	G 1 ½
47399	STUART PULSE 25/60-180	180 mm	Threaded	G 1 ½
47400	STUART PULSE 25/80-180	180 mm	Threaded	G 1 ½
47401	STUART PULSE 25/100-180	180 mm	Threaded	G 1 ½
47402	STUART PULSE 25/120-180	180 mm	Threaded	G 1 ½
47403	STUART PULSE 32/40-180	180 mm	Threaded	G 2
47404	STUART PULSE 32/60-180	180 mm	Threaded	G 2
47405	STUART PULSE 32/80-180	180 mm	Threaded	G 2
47406	STUART PULSE 32/100-180	180 mm	Threaded	G 2
47407	STUART PULSE 32/120-180	180 mm	Threaded	G 2
47420	STUART PULSE D 32/40-180	180 mm	Threaded	G 2
47421	STUART PULSE D 32/60-180	180 mm	Threaded	G 2
47422	STUART PULSE D 32/80-180	180 mm	Threaded	G 2
47423	STUART PULSE D 32/100-180	180 mm	Threaded	G 2
47424	STUART PULSE D 32/120-180	180 mm	Threaded	G 2
47425	STUART PULSE D 40/40-F220	220 mm	Flanged	DN 40
47426	STUART PULSE D 40/60-F220	220 mm	Flanged	DN 40
47427	STUART PULSE D 40/80-F220	220 mm	Flanged	DN 40
47428	STUART PULSE D 40/100-F220	220 mm	Flanged	DN 40
47429	STUART PULSE D 40/120-F220	220 mm	Flanged	DN 40
47408	STUART PULSE 32/40-F220	220 mm	Flanged	DN 32
47409	STUART PULSE 32/60-F220	220 mm	Flanged	DN 32
47410	STUART PULSE 32/80-F220	220 mm	Flanged	DN 32
47411	STUART PULSE 32/100-F220	220 mm	Flanged	DN 32
47412	STUART PULSE 32/120-F220	220 mm	Flanged	DN 32
47413	STUART PULSE 40/40-F220	220 mm	Flanged	DN 40
47414	STUART PULSE 40/60-F220	220 mm	Flanged	DN 40
47415	STUART PULSE 40/80-F220	220 mm	Flanged	DN 40
47416	STUART PULSE 40/100-F220	220 mm	Flanged	DN 40
47417	STUART PULSE 40/120-F220	220 mm	Flanged	DN 40
47418	STUART PULSE 50/100-F240	240 mm	Flanged	DN 50
47419	STUART PULSE 50/120-F240	240 mm	Flanged	DN 50
47425	STUART PULSE D 40/40-F220	220 mm	Flanged	DN 40
47426	STUART PULSE D 40/60-F220	220 mm	Flanged	DN 40
47427	STUART PULSE D 40/80-F220	220 mm	Flanged	DN 40
47428	STUART PULSE D 40/100-F220	220 mm	Flanged	DN 40
47429	STUART PULSE D 40/120-F220	220 mm	Flanged	DN 40
47430	STUART PULSE B 25/40-180	180 mm	Threaded	G 1 ½
47431	STUART PULSE B 25/60-180	180 mm	Threaded	G 1 ½
47432	STUART PULSE B 25/80-180	180 mm	Threaded	G 1 ½
47433	STUART PULSE B 25/100-180	180 mm	Threaded	G 1 ½
47434	STUART PULSE B 25/120-180	180 mm	Threaded	G 1 ½
47435	STUART PULSE B 32/40-180	180 mm	Threaded	G 2
47436	STUART PULSE B 32/60-180	180 mm	Threaded	G 2
47437	STUART PULSE B 32/80-180	180 mm	Threaded	G 2
47438	STUART PULSE B 32/100-180	180 mm	Threaded	G 2
47439	STUART PULSE B 32/120-180	180 mm	Threaded	G 2

Grundfos	Wilo	DAB
MAGNA1 25-40	Yonos MAXO 25/0.5-4	EVOPLUS 40/180 M
MAGNA1 25-60	-	EVOPLUS 60/180 M
MAGNA1 25-80	Yonos MAXO 25/0.5-7	EVOPLUS 80/180 M
MAGNA1 25 -100	Yonos MAXO 25/0.5-10	EVOPLUS 110/180 M
MAGNA1 25-120	Yonos MAXO 25/0.5-12	-
MAGNA1 32-40	Yonos MAXO 32/0.5-4	EVOPLUS 40/180 XM
MAGNA1 32-60	-	EVOPLUS 60/180 XM
MAGNA1 32-80	Yonos MAXO 32/0.5-7	EVOPLUS 80/180 XM
MAGNA1 32-100	Yonos MAXO 32/0.5-10	EVOPLUS 110/180 XM
-	Yonos MAXO 32/0.5-12	-
MAGNA1 D 32-40	Yonos MAXO-D 32/0.5-4	-
MAGNA1 D 32-60	-	-
MAGNA1 D 32-80	Yonos MAXO-D 32/0.5-7	-
MAGNA1 D 32-100	Yonos MAXO-D 32/0.5-10	-
MAGNA1 D 32-120	Yonos MAXO-D 32/0.5-12	-
-	Yonos MAXO-D 40/0.5-4	-
-	-	-
-	Yonos MAXO-D 40/0.5-8	-
-	Yonos MAXO-D 40/0.5-10	-
-	Yonos MAXO-D 40/0.5-12	-
MAGNA1 32-40F	Yonos MAXO 32/0.5-4	EVOPLUS B 40/220.32 M
MAGNA1 32-60F	-	EVOPLUS B 60/220.32 M
MAGNA1 32-80F	Yonos MAXO 32/0.5-7	EVOPLUS B 80/220.32 M
MAGNA1 32-100F	Yonos MAXO 32/0.5-10	EVOPLUS B 110/220.32 M
MAGNA1 32-120F	Yonos MAXO 32/0.5-12	-
MAGNA1 40-40F	Yonos MAXO 40/0.5-4	EVOPLUS B 40/250.40 M
MAGNA1 40-60F	-	EVOPLUS B 60/250.40 M
MAGNA1 40-80F	Yonos MAXO 40/0.5-8	EVOPLUS B 80/250.40 M
MAGNA1 40-100F	Yonos MAXO 40/0.5-10	EVOPLUS B 100/250.40 M
MAGNA1 40-120F	Yonos MAXO 40/0.5-12	EVOPLUS B 120/250.40 M
MAGNA1 50-100F	Yonos MAXO 50/0.5-10	-
MAGNA1 50-120F	Yonos MAXO 50/0.5-12	-
MAGNA1 D 40-40 F	Yonos MAXO-D 40/0.5-4	EVOPLUS D 40/250.40
MAGNA1 D 40-60 F	-	EVOPLUS D 60/250.40
MAGNA1 D 40-80 F	Yonos MAXO-D 40/0.5-8	EVOPLUS D 80/250.40
MAGNA1 D 40-100 F	Yonos MAXO-D 40/0.5-10	EVOPLUS D 110/250.40
MAGNA1 D 40-120 F	Yonos MAXO-D 40/0.5-12	-
MAGNA1 25-40 N	Yonos MAXO-Z 25/0.5-4	EVOPLUS 40/180 SAN M
MAGNA1 25-60 N	-	EVOPLUS 60/180 SAN M
MAGNA1 25-80 N	Yonos MAXO-Z 25/0.5–7	EVOPLUS 80/180 SAN M
MAGNA1 25-100 N	Yonos MAXO-Z 25/0.5–10	EVOPLUS 110/180 SAN M
MAGNA1 25-120 N	Yonos MAXO-Z 25/0.5–12	EVOPLUS 110/180 SAN M
MAGNA1 32-40 N	Yonos MAXO-Z 32/0.5-4	-
MAGNA1 32-60 N	-	-
MAGNA1 32-80 N	Yonos MAXO-Z 32/0.5-8	-
MAGNA1 32-100 N	Yonos MAXO-Z 32/0.5-10	-
MAGNA1 32-120 N	Yonos MAXO-Z 32/0.5-12	-

INTRODUCING

STUART **PULSE TRADE 25/60-130**



PREMIUM HIGH EFFICIENCY DESIGN

- AUTOMATIC ADAPT MODE
- HIGH EFFICIENCY EEI RATING OF ≤ 0.20
- ► FLOW RATES UP TO 3.6 M³/HOUR
- ▶ UPTO 6 M HEAD
- 130 MM FITTING LENGTH

The NEW STUART PULSE Trade 25/60-130 premium circulator is capable of flow rates up to 3.6 m³/hour and heads up to 6 metres.

Suitable as an ideal replacement for existing 130 mm fitting length stand-alone heating system circulators whilst offering superior energy efficiency, reliability and ease of use.

The STUART PULSE TRADE 25/60-130 circulator also features automatic adapt, proportional pressure, constant pressure and constant speed operating modes and is supplied with a 1.3m power cable, shrouded connector and 5 year warranty as standard.

EASY TO USE LED INTERFACE WITH PUSH BUTTON CONTROLS

AUTOMATIC ADAPT, PROPORTIONAL PRESSURE, CONSTANT PRESSURE AND CONSTANT SPEED OPERATING MODES

DIGITAL OPERATING MODES



(A) Automatic Adapt mode

In automatic mode the pump automatically sets the operating pressure, depending on the hydraulic system. By doing so, the pump finds the optimal operating position.



(Proportional pressure

The pump maintains the pressure with relation to the current flow. The pressure is equal to the set pressure. In between, the pressure changes linearly relative to the flow.



Constant pressure

In this mode the pump maintains the set pressure, from zero flow to maximum power, where the pressure begins to drop.



(b) Constant speed

The pump operates and maintains the chosen set speed.



Automatic night setback

When the pump is operating in night mode, it automatically switches between the current mode and night mode. Switching occurs based on the temperature of the medium. If the pump senses a drop in temperature of the medium of 15 -20 °C (in a 2 hour time frame) the pump switches to night mode. When the temperature of the medium rises, the pump goes back to previous operation mode.

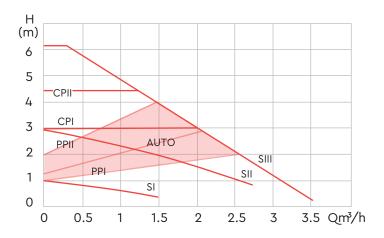


STUART PULSE TRADE 25/60-130 premium circulator

The NEW STUART PULSE Trade 25/60-130 premium circulator is capable of flow rates up to $3.6 \text{ m}^3/\text{hour}$ and heads up to 6 metres.

Suitable as an ideal replacement for existing 130 mm fitting length stand-alone heating system circulators whilst offering superior energy efficiency, reliability and ease of use.

The STUART PULSE TRADE 25/60-130 circulator also features automatic adapt, proportional pressure, constant pressure and constant speed operating modes and is supplied with a 1.3m power cable, shrouded connector and 5 year warranty as standard.





- AUTOMATIC ADAPT MODE
- ► HIGH EFFICIENCY EEI RATING ≤ 0.20
- ► FLOW RATES UP TO 3.6 M³/HOUR

- ▶ UPTO 6 M HEAD
- ▶ 1.3 M CABLE AND CONNECTOR INCLUDED
- ► 5 YEAR WARRANTY

Part No	Model	Port to Port	Connections
47505	STUART PULSE TRADE 25/60-130	130 mm	G 1½

GOOD TO KNOW

STUART PULSE TRADE circulators utilise the very latest technology including integrated diagnostics and ceramic bearings making them highly efficient and robust.

		PULSE TRADE 25/60-130 47505	
General	Warranty	5 Years	
	Conformity certification	UKCA CE	
Features	Pump type	Centrifugal	
	Fitting length	130 mm	
	Speed settings	Variable	
Materials	Pump body	Cast iron cataphoresic coated	
Performance	Maximum head (closed valve)	6.0 metres	
	Maximum flow	3.6 m³/h	
	Maximum working pressure	10 bar	
	Minimum inlet pressure	0.05 bar <75 °C (fluid temperature) 0.3 bar 75 °C − 90 °C (fluid temperature) 1.1 bar 90 °C − 110 °C (fluid temperature)	
	Min / Max water temperature	5 °C to 110 °C	
	Max ambient air temperature	40 °C	
Connections	Inlet / outlet	G 1½	
Motor	Motor type	Permanent magnet rotor	
	Duty rating	Continuous (S1)	
Electrical	Voltage / phase / frequency	230 V a.c. / 1 / 50 Hz	
	Power consumption	4.5 – 38 Watts	
	Current – full load	0.17 Amps	
	Fuse rating	5 Amps	
	EEI	≤ 0.20	
Physical	Enclosure protection	IP42	
	Width	93 mm	
	Depth	138 mm	
	Height	130 mm	
	Weight	2.12 Kg	

STUART PULSE TRADE 25/60-130 REPLACEMENT GUIDE

Part No	Model	Grundfos	Wilo
47505	STUART PULSE TRADE 25/60-130	UPS3 15/65 99199622 ALPHA L 15/60 99160574 ALPHA 2 15/60 99411114 ALPHA 3 15–50/60 99371966	Yonos PICO 25/1-6 4215516

INTRODUCING

STUART **PULSE TRADE 25/XX-180**



PREMIUM HIGH EFFICIENCY DESIGN

- AUTOMATIC ADAPT MODE
- HIGH EFFICIENCY EEI RATING OF ≤ 0.23
- ► FLOW RATES UP TO 10 M³/HOUR
- ▶ UP TO 12 M HEAD
- 180 MM FITTING LENGTH

The NEW STUART PULSE Trade 25/XX-180 premium circulators are capable of flow rates up to 10 m³/hour and heads up to 12 metres and are suitable for a wide range of applications including heat pump systems.

Suitable as an ideal replacement for existing 180 mm fitting length stand-alone heating system circulators whilst offering superior energy efficiency, reliability and ease of use.

The STUART PULSE TRADE 25/XX-180 circulators also feature automatic adapt, proportional pressure, constant pressure and constant speed operating modes and are supplied with a 5 year warranty as standard.

EASY TO USE LED INTERFACE WITH PUSH BUTTON CONTROLS

AUTOMATIC ADAPT, PROPORTIONAL PRESSURE, CONSTANT PRESSURE AND CONSTANT SPEED OPERATING MODES

DIGITAL OPERATING MODES



(A) Automatic Adapt mode

In automatic mode the pump automatically sets the operating pressure, depending on the hydraulic system. By doing so, the pump finds the optimal operating position.



(Proportional pressure

The pump maintains the pressure with relation to the current flow. The pressure is equal to the set pressure. In between, the pressure changes linearly relative to the flow.



Constant pressure

In this mode the pump maintains the set pressure, from zero flow to maximum power, where the pressure begins to drop.



(b) Constant speed

The pump operates and maintains the chosen set speed.



Automatic night setback

When the pump is operating in night mode, it automatically switches between the current mode and night mode. Switching occurs based on the temperature of the medium. If the pump senses a drop in temperature of the medium of 15 -20 °C (in a 2 hour time frame) the pump switches to night mode. When the temperature of the medium rises, the pump goes back to previous operation mode.

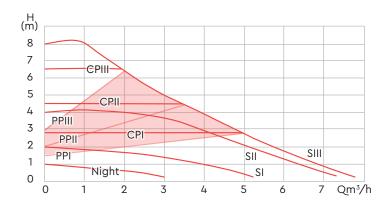


STUART PULSE TRADE 25/80-180 premium circulator

The NEW STUART PULSE Trade 25/80-180 premium circulator is capable of flow rates up to 8 m³/hour and heads up to 8 metres and is suitable for a wide range of applications including heat pump systems.

Suitable as an ideal replacement for existing 180 mm fitting length stand-alone heating system circulators whilst offering superior energy efficiency, reliability and ease of use.

The STUART PULSE TRADE 25/80-180 circulator also features automatic adapt, proportional pressure, constant pressure and constant speed operating modes and is supplied with a 5 year warranty as standard.





- AUTOMATIC ADAPT MODE
- HIGH EFFICIENCY EEI RATING ≤ 0.23
- ► FLOW RATES UP TO 8 M³/HOUR

- ▶ UPTO 8 M HEAD
- CONNECTOR INCLUDED
- ▶ 5 YEAR WARRANTY

Part No	Model	Port to Port	Connections
47540	STUART PULSE TRADE 25/80-180	180 mm	G 1½

GOOD TO KNOW

STUART PULSE TRADE circulators utilise the very latest technology including integrated diagnostics and ceramic bearings making them highly efficient and robust.

		PULSE TRADE 25/80-180 47540	
General	Warranty	5 Years	
	Conformity certification	UKCA CE	
Features	Pump type	Centrifugal	
	Fitting length	180 mm	
	Speed settings	Variable	
Materials	Pump body	Cast iron cataphoresic coated	
Performance	Maximum head (closed valve)	8.0 metres	
	Maximum flow	8 m³/h	
	Maximum working pressure	10 bar	
	Minimum inlet pressure	0.05 bar <75 °C (fluid temperature) 0.3 bar 75 °C – 90 °C (fluid temperature) 1.1 bar 90 °C – 110 °C (fluid temperature)	
	Min / Max water temperature	5 °C to 110 °C	
	Max ambient air temperature	40 °C	
Connections	Inlet / outlet	G 11/2	
Motor	Motor type	Permanent magnet rotor	
	Duty rating	Continuous (S1)	
Electrical	Voltage / phase / frequency	230 V a.c. / 1 / 50 Hz	
	Power consumption	80 Watts	
	Current - full load	0.35 Amps	
	Fuse rating	5 Amps	
	EEI	≤ 0.23	
Physical	Enclosure protection	IP42	
	Width	95 mm	
	Depth	180 mm	
	Height	180 mm	
	Weight	2.78 Kg	

STUART PULSE 25/80-180 REPLACEMENT GUIDE

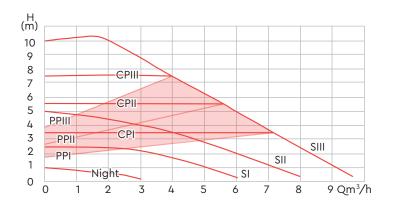
Part No	Model	Grundfos		Wilo
47540	STUART PULSE TRADE 25/80-180	UPS2 25-80	98707848	Yonos PICO 25/1-8 4215517

STUART PULSE TRADE 25/100-180 premium circulator

The NEW STUART PULSE Trade 25/100-180 premium circulator is capable of flow rates up to 9 m³/hour and heads up to 10 metres and is suitable for a wide range of applications including heat pump systems.

Suitable as an ideal replacement for existing 180 mm fitting length stand-alone heating system circulators whilst offering superior energy efficiency, reliability and ease of use.

The STUART PULSE TRADE 25/100-180 circulator also features automatic adapt, proportional pressure, constant pressure and constant speed operating modes and is supplied with a 5 year warranty as standard.





- AUTOMATIC ADAPT MODE
- HIGH EFFICIENCY EEI RATING ≤ 0.23
- ► FLOW RATES UP TO 9 M³/HOUR

- ▶ UP TO 10 M HEAD
- CONNECTOR INCLUDED
- ▶ 5 YEAR WARRANTY

Part No	Model	Port to Port	Connections
47542	STUART PULSE TRADE 25/100-180	180 mm	G 1½

GOOD TO KNOW

STUART PULSE TRADE circulators utilise the very latest technology including integrated diagnostics and ceramic bearings making them highly efficient and robust.

		PULSE TRADE 25/100-180 47542
General	Warranty	5 Years
	Conformity certification	UKCA CE
Features	Pump type	Centrifugal
	Fitting length	180 mm
	Speed settings	Variable
Materials	Pump body	Cast iron cataphoresic coated
Performance	Maximum head (closed valve)	10.0 metres
	Maximum flow	9 m³/h
	Maximum working pressure	10 bar
	Minimum inlet pressure	0.05 bar <75 °C (fluid temperature) 0.3 bar 75 °C – 90 °C (fluid temperature) 1.1 bar 90 °C – 110 °C (fluid temperature)
	Min / Max water temperature	5 °C to 110 °C
	Max ambient air temperature	40 °C
Connections	Inlet / outlet	G 1½
Motor	Motor type	Permanent magnet rotor
	Duty rating	Continuous (S1)
Electrical	Voltage / phase / frequency	230 V a.c. / 1 / 50 Hz
	Power consumption	120 Watts
	Current - full load	0.52 Amps
	Fuse rating	5 Amps
	EEI	≤ 0.23
Physical	Enclosure protection	IP42
	Width	95 mm
	Depth	180 mm
	Height	180 mm
	Weight	2.78 Kg

STUART PULSE 25/100-180 REPLACEMENT GUIDE

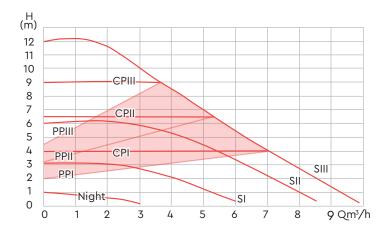
Part No	Model	Wilo
47542	STUART PULSE TRADE 25/100-180	Yonos MAXO 25/0.5-10 2120640

STUART PULSE TRADE 25/120-180 premium circulator

The NEW STUART PULSE Trade 25/120-180 premium circulator is capable of flow rates up to $10~\text{m}^3/\text{hour}$ and heads up to 12~metres and is suitable for a wide range of applications including heat pump systems.

Suitable as an ideal replacement for existing 180 mm fitting length stand-alone heating system circulators whilst offering superior energy efficiency, reliability and ease of use.

The STUART PULSE TRADE 25/120-180 circulator also features automatic adapt, proportional pressure, constant pressure and constant speed operating modes and is supplied with a 5 year warranty as standard.





- AUTOMATIC ADAPT MODE
- ► HIGH EFFICIENCY EEI RATING ≤ 0.23
- ► FLOW RATES UP TO 10 M³/HOUR

- ▶ UP TO 12 M HEAD
- CONNECTOR INCLUDED
- ► 5 YEAR WARRANTY

Part No	Model	Port to Port	Connections
47544	STUART PULSE TRADE 25/120-180	180 mm	G 1½

GOOD TO KNOW

STUART PULSE TRADE circulators utilise the very latest technology including integrated diagnostics and ceramic bearings making them highly efficient and robust.

		PULSE TRADE 25/120-180 47544
General	Warranty	5 Years
	Conformity certification	UKCA CE
Features	Pump type	Centrifugal
	Fitting length	180 mm
	Speed settings	Variable
Materials	Pump body	Cast iron cataphoresic coated
Performance	Maximum head (closed valve)	12 metres
	Maximum flow	10 m³/h
	Maximum working pressure	10 bar
	Minimum inlet pressure	0.05 bar <75 °C (fluid temperature) 0.3 bar 75 °C − 90 °C (fluid temperature) 1.1 bar 90 °C − 110 °C (fluid temperature)
	Min / Max water temperature	5 °C to 110 °C
	Max ambient air temperature	40 ℃
Connections	Inlet / outlet	G 11/2
Motor	Motor type	Permanent magnet rotor
	Duty rating	Continuous (S1)
Electrical	Voltage / phase / frequency	230 V a.c. / 1 / 50 Hz
	Power consumption	180 Watts
	Current - full load	0.78 Amps
	Fuse rating	5 Amps
	EEI	≤ 0.23
Physical	Enclosure protection	IP42
	Width	95 mm
	Depth	180 mm
	Height	180 mm
	Weight	2.78 Kg

STUART PULSE 25/120-180 REPLACEMENT GUIDE

Part No	Model	Wilo
47544	STUART PULSE TRADE 25/120-180	Yonos MAXO 25/0.5-12 2120641

INTRODUCING

STUART

HIGH EFFICIENCY EEI RATING FROM 0.18

- FLOW RATES UP TO 4.5 M³/HOUR
- ▶ UPTO 8 M HEAD
- AUTOMATIC VENTING CYCLE
- ROBUST CAST IRON AND BRONZE OPTIONS

Designed as a perfect replacement for many popular 130mm or 180mm port to port models, STUART ST circulators are an easy retrofit replacement.

The terminal box can be easily configured to suit the installation and the control functions are easy to set up by simply scroll through the pre-configured options.

PREMIUM HIGH EFFICIENCY CAST IRON & BRONZE VARIANTS

130 OR 180 MM PORT-PORT OPTIONS

EASY TO USE LED INTERFACE WITH PUSH BUTTON CONTROLS

DIGITAL OPERATING MODES



(A) Automatic mode

In automatic mode the pump automatically sets the operating pressure, depending on the hydraulic system. By doing so, the pump finds the optimal operating position.



(∠) Proportional pressure

The pump maintains the pressure with relation to the current flow. The pressure is equal to the set pressure. In between, the pressure changes linearly relative to the flow.



(Constant pressure

In this mode the pump maintains the set pressure, from zero flow to maximum power, where the pressure begins to drop.



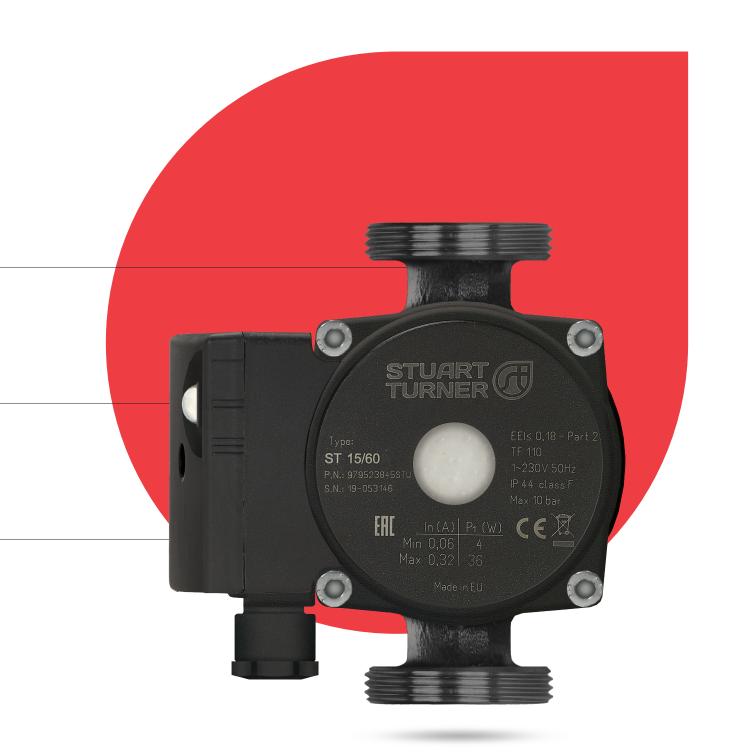
(b) Constant speed

The pump operates and maintains the chosen set speed.



Night mode

When the pump is operating in night mode, it automatically switches between the current mode and night mode. Switching occurs based on the temperature of the medium. If the pump senses a drop in temperature of the medium of 15 -20 °C (in a 2 hour time frame) the pump switches to night mode. When the temperature of the medium rises, the pump goes back to previous operation mode.



STUART ST

STUART ST circulators

STUART ST circulators are Erp and EuP compliant and designed for use in new systems or as a replacement in hot water circulation and heating systems.

The range features the latest in high efficiency technology, with proportional pressure control and an EEI rating from just 0.18.





- ► HIGH EFFICIENCY EEI RATING FROM 0.18
- ► FLOW RATES UP TO 4.5 M³/HOUR
- ▶ UPTO 8 M HEAD

- ► AUTOMATIC VENTING CYCLE
- ► ROBUST CAST IRON AND BRONZE OPTIONS
- ▶ UPTO 5 YEAR WARRANTY

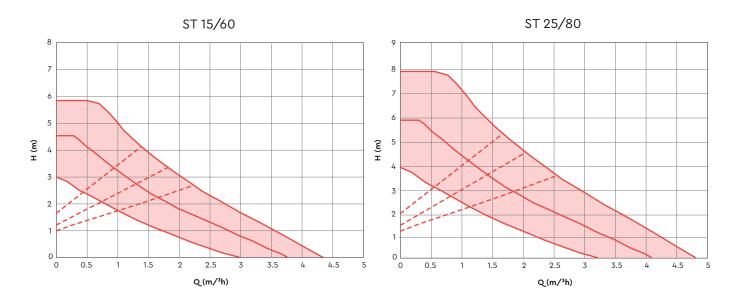
Part No	Model	Port to Port	Connections
47073	STUART ST 15/60-130	130 mm	Rp 1½
47074	STUART ST 15/60 B-130	130 mm	Rp 1½
47075	STUART ST 25/80-180	180 mm	Rp 1½

GOOD TO KNOW

The Stuart range of ST circulators utilise the very latest technology including integrated diagnostics and ceramic bearings making them highly efficient and robust.

STUART ST

The following is issued for guidance only. Please visit the Stuart Turner website for the full technical specifications: stuart-turner.co.uk/stuart



STUART ST RANGE REPLACEMENT GUIDE

Part No	Model	Grundfos	Wilo	DAB
47073	STUART ST 15/60-130	UPS2 15/50-60 UPS3 15/65	Yonos PICO 25/1-6	EVOSTA 40/70 130
47074	STUART ST 15/60 B-130	UPS 15/50N	SB30, SB60	VS 65/150B
47075	STUART ST 25/80-180	UPS2 25-80 UPS 25/55	Yonos PICO 25/1-8	EVOSTA 80/180

STUART UNDERFLOOR HEATING

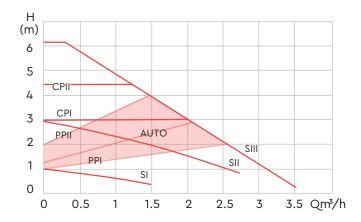
STUART UFH mixer and single zone

Available as mixer set or single zone options. The Stuart underfloor heating single loop pump mixer sets have been designed specifically for small areas such as conservatories, kitchens and extensions. The units comprise inlet isolation elbows, thermostatic blending valve, ST Pulse 15/60 pump and outlet union supplied with a nickel plated surface finish.

Stuart underfloor heating pump mixer sets are designed to blend flow and return from the heat source in underfloor heating systems which have a heating load of up to 15kW.

The pump sets have been specifically designed for installation with manifolds and their lightweight design makes them ideal for wall mounting. Featuring a fully ERP compliant, energy efficient circulator as well as a port for an automatic air vent, the Stuart UFH Mixers are the installers choice for fuel efficient, reliable underfloor heating installations.





- HIGH EFFICIENCY 0.20 EEI RATING
- FLOW RATES UP TO 3.6 M³/HOUR
- UPTO 6.0 M HEAD

- ▶ 3 SPEED SETTINGS
- INSTALLATION KIT INCLUDED
- 3 YEAR WARRANTY

Part No	Model	Connections
47396	STUART UFH Single Zone	G 1 ½ F / 15 mm
47397	STUART UFH Mixer	G 1

Our brands Powering water for all applications

Stuart Turner offer a comprehensive range of solutions, specifically designed to suit a variety of applications in both domestic and commercial markets.

Invest in a name you can trust - quality, reliability, innovation and customer service.

AQUABOOST

Standard and bespoke booster sets

Why AQUABOOST?

AQUABOOST offers a comprehensive range of integrated pump and water storage solutions designed to optimise space. Supplied as a ready to install packaged product, they deliver improved performance from unvented water cylinders and combination boilers. Ideal for larger domestic, and commercial applications. The possibilities are endless.



MAINSBOOST

Mains water pressure boosting solutions

Why MAINSBOOST™?

MAINSBOOST™ Water Performance Systems are specifically designed to stabilise water pressure and dramatically improve water flow rates to all direct on mains appliances. They deliver improved performance from unvented water cylinders, combination boilers and high performance shower heads, allowing multiple outlets to run simultaneously.



MONSOON

Whole house, bathroom and shower pumps

Why MONSOON?

MONSOON is the benchmark for high performing, quality pumps available on the market. This comprehensive range is specifically designed to meet the demands of a host of domestic and light commercial applications in vented systems, from a single tap and shower to a complete bathroom or the whole property.



SHOWERMATE

Single outlet or bathroom shower pump

Why SHOWERMATE?

SHOWERMATE offers a range of high quality plastic pumps providing an effective solution to boost the performance of a single tap, shower or complete bathroom. Suitable for water pressure and flow boosting applications within properties featuring a vented plumbing system.



WASTEFLO

Waste water removal

Why WASTEFLO?

WASTEFLO offers a variety of products to simply and efficiently remove waste water from your home or commercial building, allowing you to create a bathroom, wet room, kitchen or utility room anywhere a connection using gravity to the main soil/waste pipe is not possible.



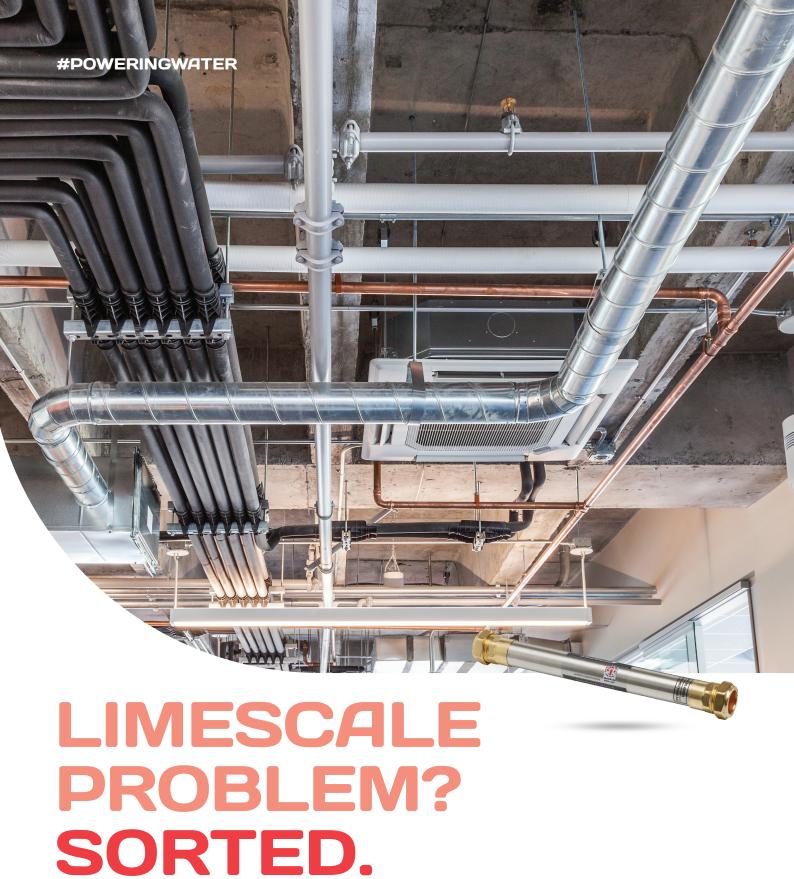
STUART

Circulators, pressurisation units, heating products, water conditioners and pumps

Why STUART?

STUART consists of a range of circulators. pressurisation units, heating related products, water conditioners and a diverse range of water pumps, along with associated accessories and controls. Every product has been designed to provide high levels of performance and reliability.





STUART WATER CONDITIONERS

Range of highly effective magnetic and catalytic water conditioners for domestic, commercial and industrial applications offer a solution to match the typical water flow from the cold water mains to the property and are simply installed in-line with the existing pipework. WRAS approved and completely maintenance free.

STUART-TURNER.CO.UK



NOTES

POWERING WATER FOR EVERY APPLICATION

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