

STUART

Pulse Cast Iron Single 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.

These single head variable speed circulators are designed to constantly monitor and regulate pressure and flow and adjust according to the set operating mode.



EEI 0.20

UK
CA

CE

2 YEAR
WARRANTY

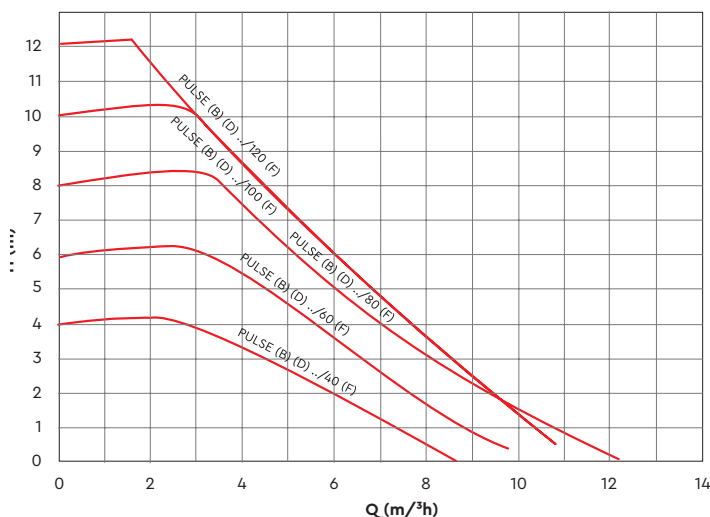
Features

- Automatic, proportional pressure, constant pressure and constant speed operating modes
- Automatic night operation mode
- ECM permanent magnet technology
- Automatic venting cycle
- Robust cast iron housing
- Continuously rated
- Carbon-Graphite bearings
- 220mm and 240mm fitted length options
- DN32, DN40 and DN50 flange connection options
- ErP compliant
- Built-in over-current, temperature and over-voltage protection
- LED display control panel
- 2 year warranty

Applications

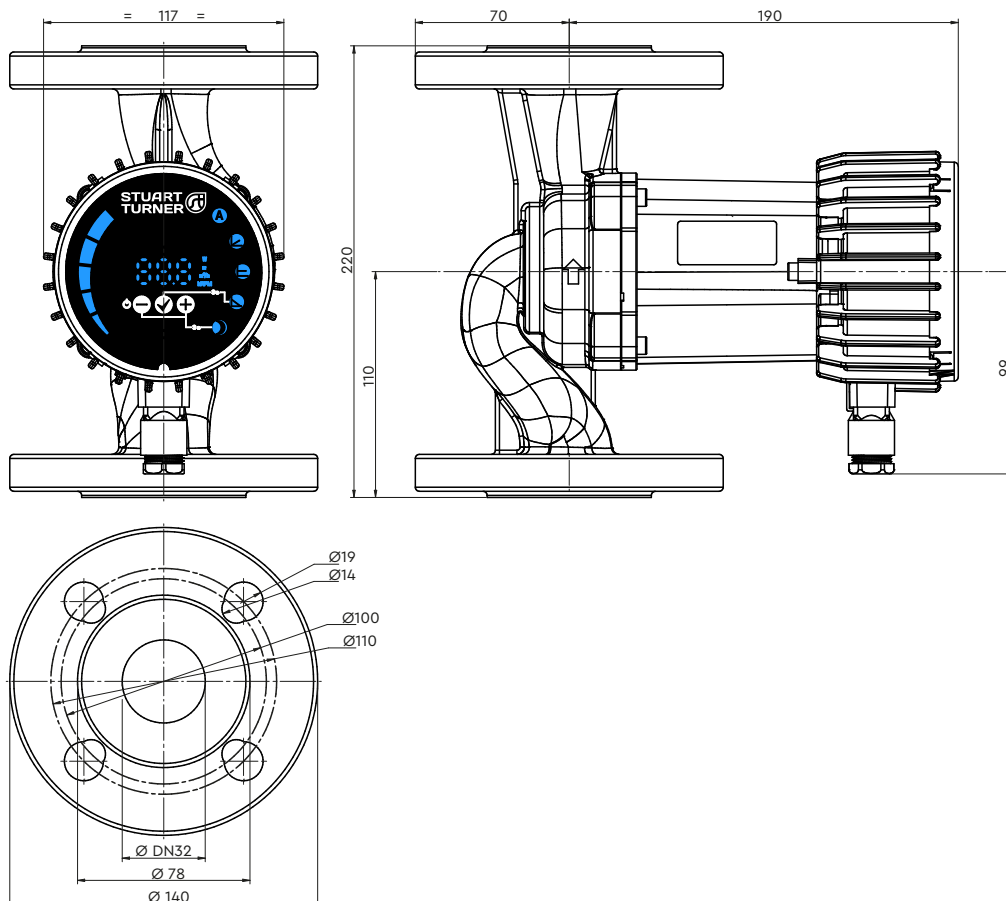
- Hot-water heating systems
- Air conditioning and ventilation systems

Performance



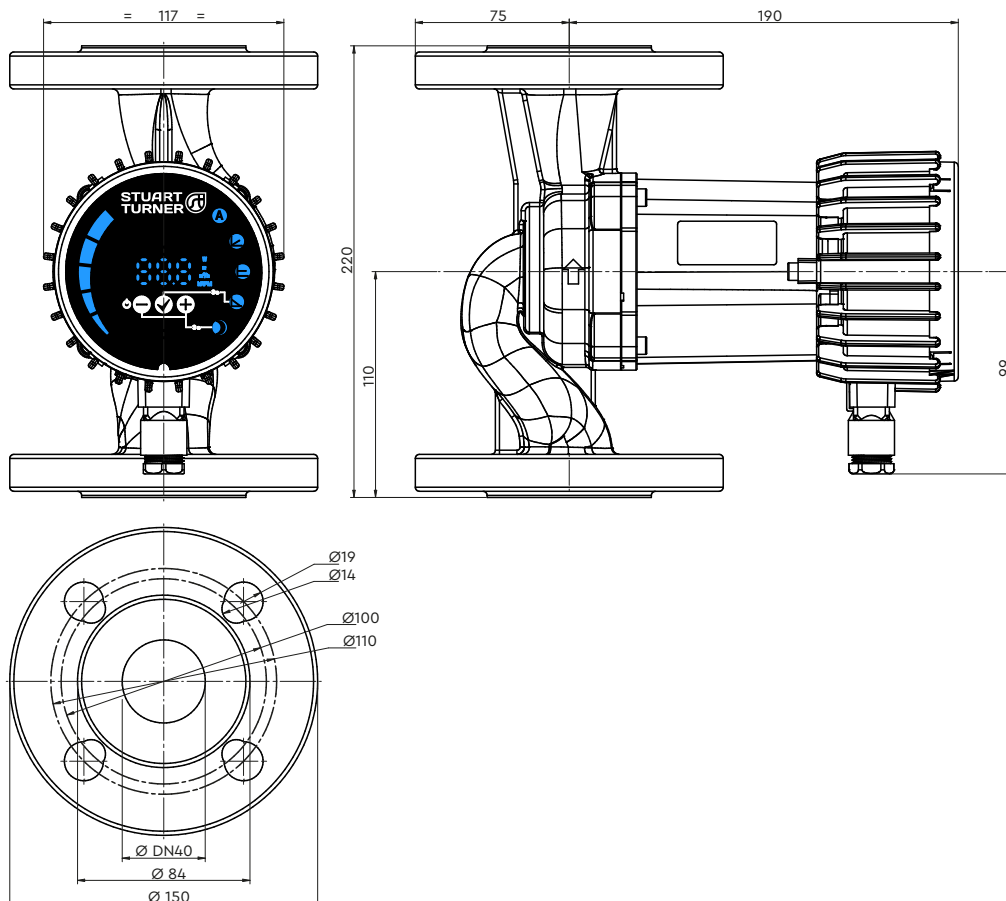


Model		32/40-F220 47408	32/60-F220 47409	32/80-F220 47410	32/100-F220 47411	32/120-F220 47412
General	Warranty	2 years				
Features	Pump type	Centrifugal				
	Fitting length	220 mm				
	Speed settings	Variable				
Materials	Pump body	Cast iron				
	Impeller	Polyethersulfone				
	Bearings	Carbon-Graphite				
Performance	Maximum head (closed valve)	4.2 metres	6.2 metres	8.4 metres	10.5 metres	12.1 metres
	Maximum flow	8.6 m ³ /h	9.9 m ³ /h	12.3 m ³ /h	11.8 m ³ /h	10.8 m ³ /h
	Maximum working pressure	10 bar				
	Minimum inlet pressure	0.05 bar <75 °C (fluid temperature) 0.28 bar <90 °C (fluid temperature)				
	Min / Max water temperature	-10 °C to +110 °C				
	Max ambient air temperature	40 °C				
Connections	Inlet / outlet	DN 32				
Motor	Type	Canned permanent magnet rotor				
	Duty rating	Continuous (S1)				
Electrical	Power supply / phase / frequency	230 V a.c. / 1 / 50 Hz				
	Power consumption	70 Watts	110 Watts	150 Watts	180 Watts	180 Watts
	Current (full load)	0.6 Amps	1 Amp	1.3 Amps	1.5 Amps	1.5 Amps
	Fuse rating	5 Amps				
	Insulation class	F				
	EEL	0.19	0.21	0.21	0.20	0.20
Physical	Enclosure protection	IP44				
	Depth	260 mm				
	Width	140 mm				
	Height	220 mm				
	Weight	6.40Kg	6.40 Kg	6.40 Kg	6.40 Kg	6.50 Kg

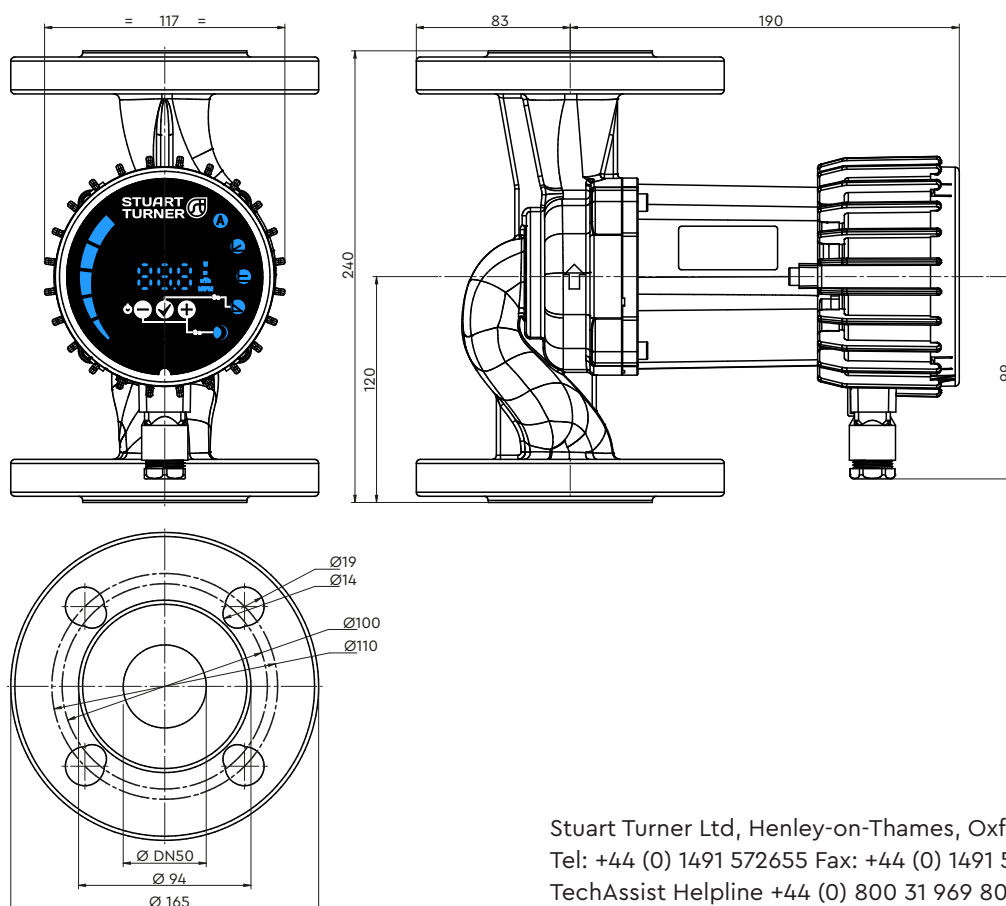




Model		40/40-F220 47413	40/60-F220 47414	40/80-F220 47415	40/100-F220 47416	40/120-F220 47417
General	Warranty	2 years				
Features	Pump type	Centrifugal				
	Fitting length	220 mm				
	Speed settings	Variable				
Materials	Pump body	Cast iron				
	Impeller	Polyethersulfone				
	Bearings	Carbon-Graphite				
Performance	Maximum head (closed valve)	4.2 metres	6.2 metres	8.4 metres	10.5 metres	12.1 metres
	Maximum flow	8.6 m³/h	9.9 m³/h	12.3 m³/h	11.8 m³/h	10.8 m³/h
	Maximum working pressure	10 bar				
	Minimum inlet pressure	0.05 bar <75 °C (fluid temperature) 0.28 bar <90 °C (fluid temperature)				
	Min / Max water temperature	-10 °C to +110 °C				
	Max ambient air temperature	40 °C				
Connections	Inlet / outlet	DN 40				
Motor	Type	Canned permanent magnet rotor				
	Duty rating	Continuous (S1)				
Electrical	Power supply / phase / frequency	230 V a.c. / 1 / 50 Hz				
	Power consumption	70 Watts	110 Watts	150 Watts	180 Watts	180 Watts
	Current (full load)	0.6 Amps	1 Amp	1.3 Amps	1.5 Amps	1.5 Amps
	Fuse rating	5 Amps				
	Insulation class	F				
	EEL	0.19	0.21	0.21	0.20	0.20
Physical	Enclosure protection	IP44				
	Depth	265 mm				
	Width	150 mm				
	Height	220 mm				
	Weight	7.60 Kg	7.60 Kg	7.60 Kg	7.50 Kg	7.8 0Kg



Model		50/100-F240 47418	50/120-F240 47419
General	Warranty	2 years	
Features	Pump type	Centrifugal	
	Fitting length	240 mm	
	Speed settings	Variable	
Materials	Pump body	Cast iron	
	Impeller	Polyethersulfone	
	Bearings	Carbon-Graphite	
Performance	Maximum head (closed valve)	10.5 metres	12.1 metres
	Maximum flow	11.8 m ³ /h	10.8 m ³ /h
	Maximum working pressure	10 bar	
	Minimum inlet pressure	0.05 bar <75 °C (fluid temperature) 0.28 bar <90 °C (fluid temperature)	
	Min / Max water temperature	-10 °C to +110 °C	
	Max ambient air temperature	40 °C	
Connections	Inlet / outlet	DN 50	
Motor	Type	Canned permanent magnet rotor	
	Duty rating	Continuous (S1)	
Electrical	Power supply / phase / frequency	230 V a.c. / 1 / 50 Hz	
	Power consumption	180 Watts	180 Watts
	Current (full load)	1.5 Amps	1.5 Amps
	Fuse rating	5 Amps	
	Insulation class	F	
	EEL	0.20	0.20
Physical	Enclosure protection	IP44	
	Depth	273 mm	
	Width	165 mm	
	Height	240 mm	
	Weight	8.80 Kg	9.40Kg



Stuart Turner Limited reserves the right to amend specifications without notice.

Stuart Turner Ltd, Henley-on-Thames, Oxfordshire RG9 2AD
 Tel: +44 (0) 1491 572655 Fax: +44 (0) 1491 573704
 TechAssist Helpline +44 (0) 800 31 969 80
www.stuart-turner.co.uk