

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.



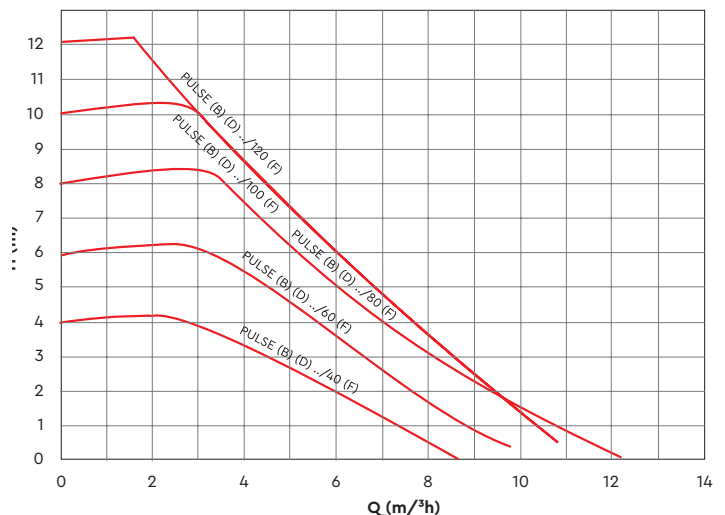
Features

- 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

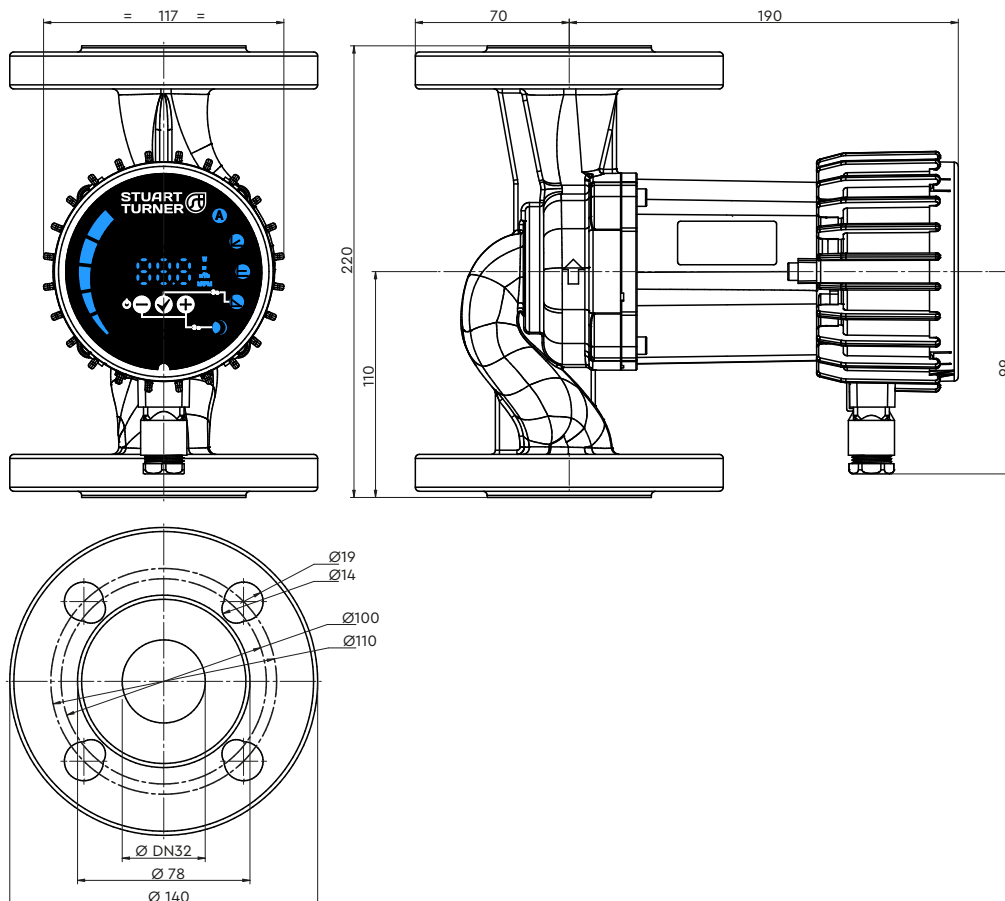
Applications

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

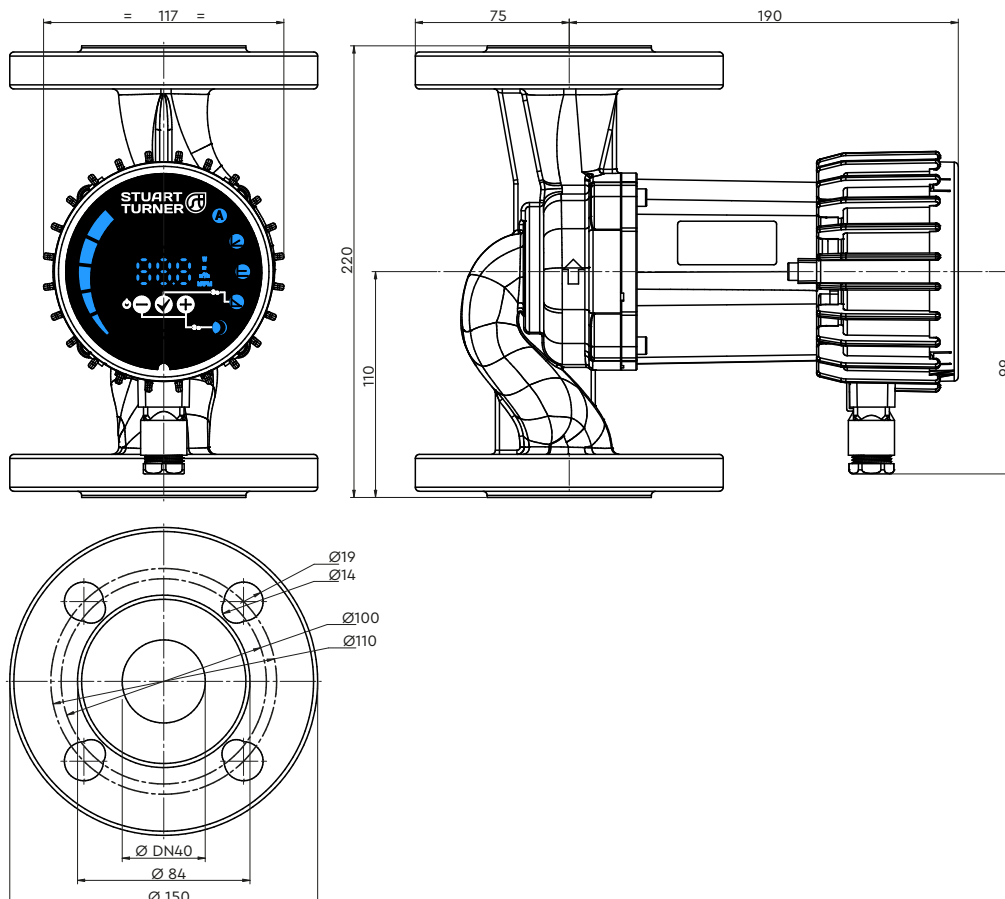
Performance



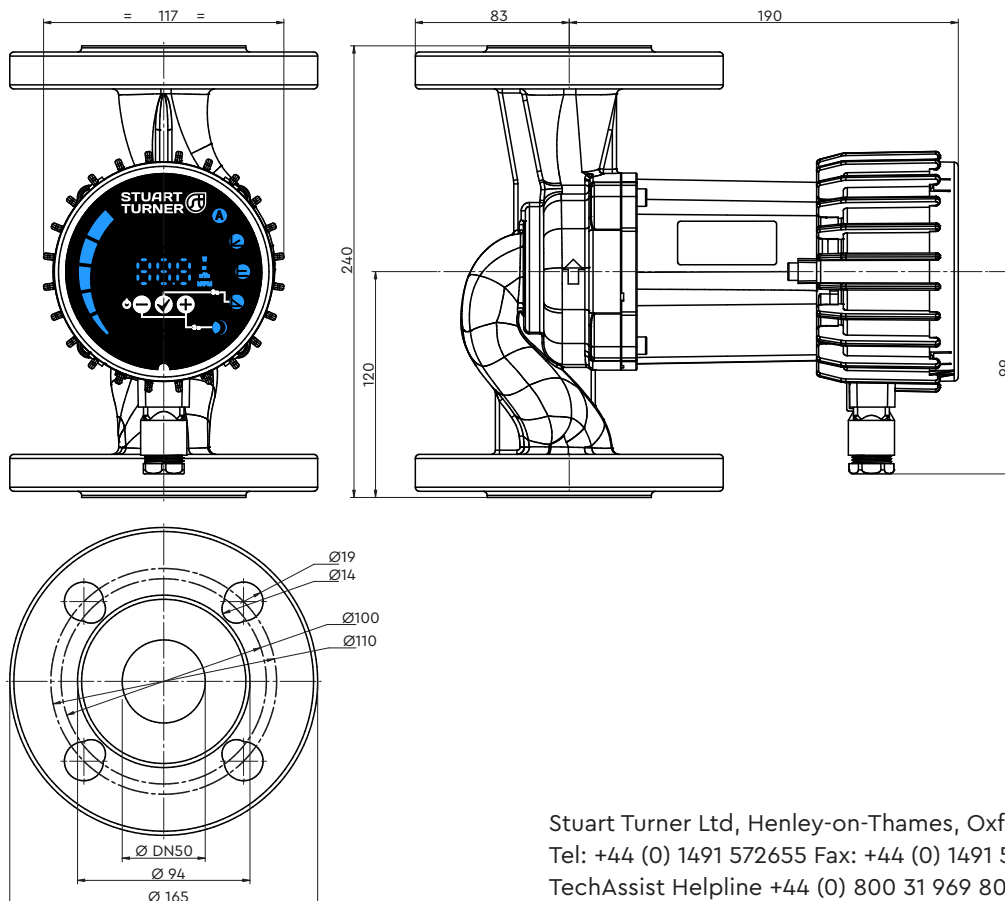
Model		32/40-F220 47408	32/60-F220 47409	32/80-F220 47410	32/100-F220 47411	32/120-F220 47412	
General	Warranty	2 years					
Features	Pump type	Centrifugal					
	Fitting length	220 mm					
	Speed settings	Variable					
Materials	Pump body	Cast iron					
	Impeller	Polyethersulfone					
	Bearings	Carbon-Graphite					
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					
	EI	0.19	0.21	0.21	0.20	0.20	
Physical	Enclosure protection	IP44					
	Depth	260 mm					
	Width	140 mm					
	Height	220 mm					
	Weight		6.40 Kg	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 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 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					
	EI	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	7.80 Kg



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		
	EI	0.20	0.20	
Physical	Enclosure protection	IP44		
	Depth	273 mm		
	Width	165 mm		
	Height	240 mm		
	Weight		8.80 Kg	9.40 Kg



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