

# STUART

## CH 4 Automatic Flow Switch Pumps

CH FL pumps are ideal for water pressurisation to outlets in a positive head application, where an instant boosted supply is required from a simple to install package.

CH Automatic Flow Switch pumps require a gravity flow of 1 litre/minute to operate and are suitable for commercial or domestic use, pumping hot or cold water at flow rates up to 148 litres per minute and heads up to 62 metres.

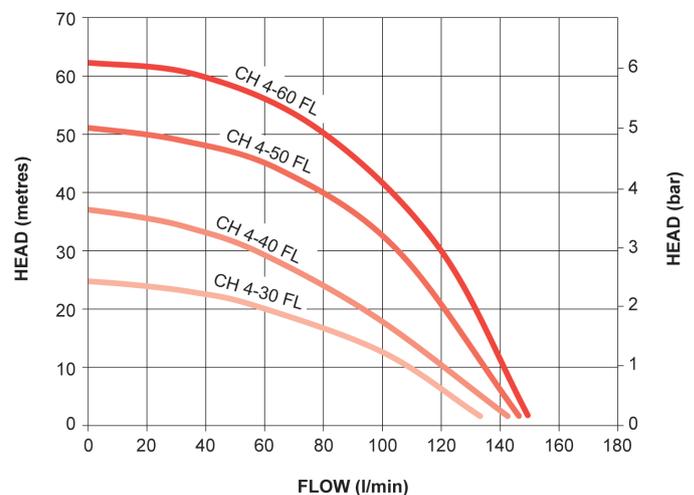


### Features

- Flow rates up to 148 litres per minute and heads up to 62 metres
- Automatic flow switch activation
- No pulsing during operation
- Durable brass and stainless steel construction
- Multistage centrifugal pump
- Extended life mechanical seal
- Quiet operation
- WRAS Approved Product
- Continuously rated induction motor
- Dry run protection
- 2 year guarantee

### Application

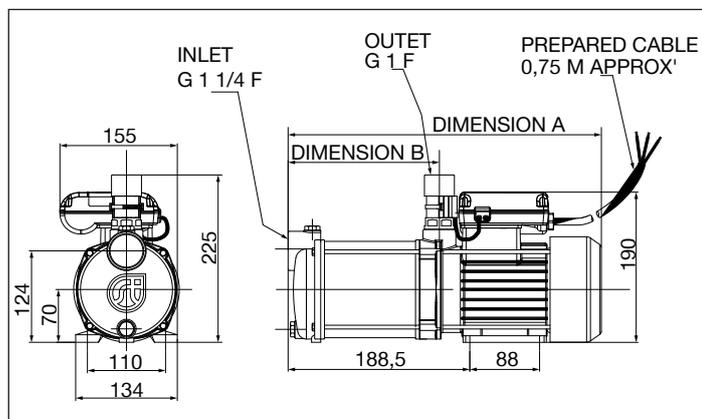
- The CH 4 FL range of pumps are the ideal base unit for pressure boosting sets or for applications where long pipe runs or high heads may be involved
- Suitable for domestic or commercial use, pumping hot or cold water



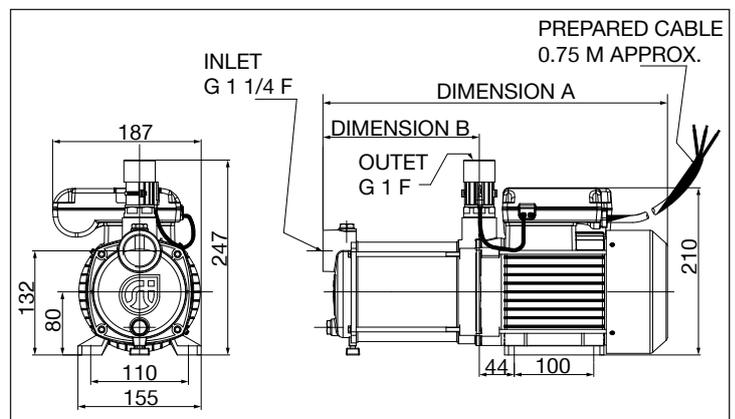
Pump Model		CH 4-30 FL 50 Hz 46578	CH 4-40 FL 50 Hz 46596	CH 4-50 FL 50 Hz 46605	CH 4-60 FL 50 Hz 46606
General	Guarantee	2 years			
	WRAS approval	1601035			
	Approvals	WRAS, CE			
Features	Pump type	Centrifugal multistage			
	Priming vent plug	✓			
	Pump control	Flow switch			
	Mechanical seal	EPDM / Carbon / Ceramic			
	Dry run protection	✓	✓	✓	✓
	Priming vent plug	✓	✓	✓	✓
	Noise	67 dB(A)	68 dB(A)	69 dB(A)	70 dB(A)
Materials	Pump body	Brass / stainless steel			
	Impeller	Stainless steel			
Performance	Maximum head (closed valve)	25 metres	36 metres	50 metres	62 metres
	Performance @ 50 l/min	21 metres	30 metres	45 metres	56 metres
	Performance @ 100 l/min	13 metres	17 metres	31 metres	41 metres
	Maximum flow	134 l/min	141 l/min	145 l/min	148 l/min
	Minimum static inlet pressure	0.05 bar (0.5 metres)			
	Maximum static inlet pressure	1.0 bar (10 metres)			
	Maximum static outlet pressure	1.2 bar (12 metres)			
	Maximum working pressure*	600 kPa (6 bar)		900 kPa (9 bar)	
	Max. ambient air temperature	50 °C			
	Min / Max water temperature**	Min 4 °C / Max 65 °C			
Flow switch sensitivity (approx)	1 l/min				
Connections	Pump connections	G 1¼ female (inlet), G 1 female (outlet)			
Motor	Type	Induction, auto-reset thermal trip			
	Duty rating	Continuous (S1)			
Electrical	Power supply / phase / frequency	230 V a.c. / 1 / 50 Hz			
	Current (full load)	3.6 Amps	5.4 Amps	7.3 Amps	8.8 Amps
	Power consumption	805 Watts	1210 Watts	1640 Watts	1980 Watts
	Fuse rating	13 Amps			
	Power cable (pre-wired)	0.75 metres			
Physical	Enclosure protection	IPX5			
	Length	360 mm	384 mm	431 mm	456 mm
	Width	155 mm		187 mm	
	Height (excluding hoses)	228 mm		247 mm	
	Weight (including fittings)	10.2 Kg	12.0 Kg	15.5 Kg	18.0 Kg

\* The maximum pressure that can be applied to the pump under any installation conditions.

\*\* A stored water temperature of 60 °C is considered sufficient to meet all normal requirements and will minimise deposition of scale in hard water areas.



Pump Description	Dim. 'A'	Dim. 'B'
CH 4-30 FL	360 mm	146 mm
CH 4-40 FL	384 mm	170 mm



Pump Description	Dim. 'A'	Dim. 'B'
CH 4-50 FL	431 mm	198 mm
CH 4-60 FL	456 mm	222 mm

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

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