



# Monsoon: The perfect pump, whatever the job



The new Monsoon range from Stuart Turner – pumps able to meet the needs of the home, from a name you can rely on.

- **Stuart Turner** reflects reliability, quality and robust design
- **The new Monsoon** delivers pressure and flow more efficiently
- A pump for the **whole home**, delivering so much more than just a shower

In fact, the new Monsoon is capable of boosting pressure for a wide range of domestic applications:

- Whole home
- Bathroom
- Bath
- Shower
- Tap

Every component of the new Monsoon range has been designed and improved to enhance the already high levels of reliability, performance and efficiency.

## RELIABILITY

- Advanced control system for improved performance
- Improved motor efficiency and cooling
- Reassurance of a 2-year warranty

## QUICK AND EASY TO INSTALL

- Each model is now lighter and more compact
- All flexible hoses feature integral isolating valves
- All pumps have G $\frac{3}{4}$  threaded connections

Producing reliable, efficient and robust pumps is part of our 100-year heritage. It's what we've built our reputation on. You can be confident that, like all Stuart Turner pumps, the new Monsoon won't let you or your customer down.

The pump you fit says a lot about you – making Stuart Turner and Monsoon the only choice.

## MONSOON LEGEND



Home



Bathroom



Bath



Shower



Tap

Universal N3.5 bar Single



Standard 4.1 bar Twin



## Why Monsoon?

	FEATURE	BENEFIT
<b>The Pump</b>	<ul style="list-style-type: none"><li>▪ Brass pump head construction</li><li>▪ Peripheral impeller design</li><li>▪ G<sup>3</sup>/<sub>4</sub> male pump connection</li><li>▪ Hose with 22 mm plumbing connection</li><li>▪ Built-in large capacity inlet strainer</li><li>▪ Stuart hard faced mechanical seal</li><li>▪ Flexible hose with integral isolating valve</li></ul>	<ul style="list-style-type: none"><li>▪ Good flow, long life, low noise</li><li>▪ High pressure, compact design</li><li>▪ Speed and ease of installation</li><li>▪ Reduced vibration and pump head stress</li><li>▪ Long-term pump protection</li><li>▪ Long life</li><li>▪ Ease of maintenance</li></ul>
<b>The Controls</b>	<p>Universal pumps feature:</p> <ul style="list-style-type: none"><li>▪ For negative head installations, flow and pressure switch operation</li></ul> <p>Standard pumps feature:</p> <ul style="list-style-type: none"><li>▪ Flow switch operation for positive head installations</li></ul>	<ul style="list-style-type: none"><li>▪ Designed for installation where 0.6 l/min cannot be achieved by gravity, fully automatic pre-set pressure and flow switch control</li><li>▪ High sensitivity switch will start the pump with flow rate 0.6 l/min and above</li></ul>
<b>The Motor</b>	<ul style="list-style-type: none"><li>▪ Continuously rated induction motor (S1) @ 9 l/min and above</li><li>▪ Pre-wired with power cable</li><li>▪ Fitted with anti-vibration feet</li><li>▪ System controlled by high quality PCB</li><li>▪ External cooling</li></ul>	<ul style="list-style-type: none"><li>▪ Long life, maintenance free</li><li>▪ Ease of installation</li><li>▪ Quiet running</li><li>▪ Improved system reliability</li><li>▪ Lower motor temperatures</li></ul>
<b>The Quality</b>	<ul style="list-style-type: none"><li>▪ Manufactured using procedures approved by BS EN ISO 9001:2000 Quality Management System</li><li>▪ CE marked</li><li>▪ WRAS compliant</li></ul>	<ul style="list-style-type: none"><li>▪ Meets all relevant European standards to deliver quality that you can depend on</li><li>▪ Built to latest electrical specifications</li><li>▪ For stored water use within potable water systems</li></ul>

We put a lot of work into making our pumps the very best there are. The same goes for our Customer Support Service. Call us direct at our Henley offices, talk to a member of the Stuart Turner Support Team and they will be able to help with any question or problem you may have:

- Recommending the right pump for the job
- Solving any technical or installation matters
- Diagnosis and assistance with any issues after installation

Call our Support Team on 01491 572655 or email us at [pumps@stuart-turner.co.uk](mailto:pumps@stuart-turner.co.uk)



## Finding the right Monsoon pump



This section will assist you in finding the right type of Monsoon pump for any household application, whether boosting pressure to the entire home, a bathroom or just the shower. All of these pumps should ideally be installed on the floor of the hot water cylinder cupboard.

### UNIVERSAL PUMPS

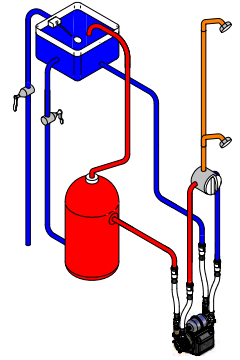
Monsoon's new Universal pumps remove the guesswork from pump selection. Fully automatic, they will function under both positive and negative head conditions and are suitable for installation into an open vented hot and cold water system. Universal Monsoon pumps do not require a gravity flow of water to start.

#### Universal Twin Pumps



Universal twin pumps are designed for installation into both the hot and cold water supplies – boosting both equally. They can be used to:

- Boost hot and cold water services to the complete home, bathroom, kitchen or cloakroom
- Pressurise the supply in applications such as loft conversions, where outlets are higher than the water source
- Pressurise the complete system where it is uncertain whether a positive flow naturally exists

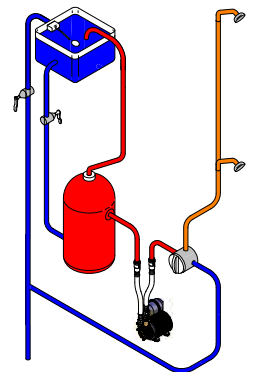


#### Universal Single Pumps



Universal single pumps can be used in pairs to boost hot and cold water supplies independently, or as a single pump to boost a water supply as required.

- Ideal for boosting hot water service to a common mixer where the cold supply is mains fed
- Ideal for boosting hot and cold supplies separately
- Suitable for increasing water pressure to a combi boiler via a break tank



## STANDARD PUMPS

Where an open vented positive head system exists with a minimum gravity flow of 0.6 l/min, then the Monsoon Standard is the perfect solution.

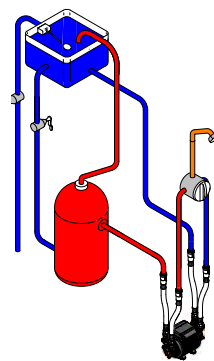
### Standard Twin Pumps



Standard twin pumps are designed for installation into both the hot and cold water supply – boosting both equally.

Standard twin pumps can be used to:

- Boost hot and cold water services to the complete home, bathroom, kitchen or cloakroom
- Boost hot and cold water supplies to a high performance shower system



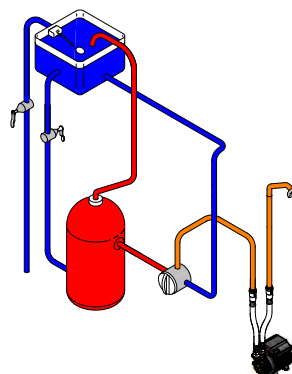
### Standard Single Pumps



Standard single pumps are ideal for boosting water pressure and flow. They may be used to:

- Boost the water pressure in either the hot or cold water supply
- Boost the blended water outlet between the shower valve and the shower rose

Not suitable for pumping water supplies to common mixers.



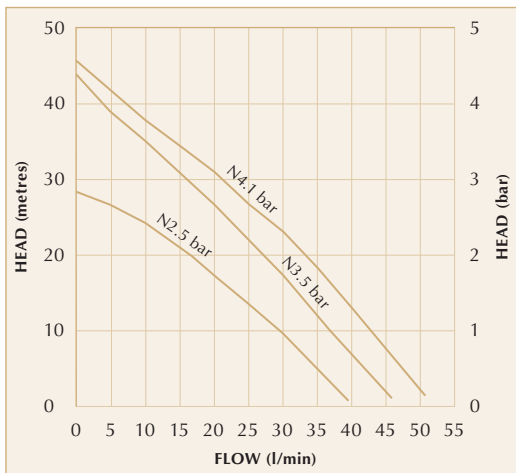
If you require further assistance in selecting the right pump for any installation, contact Stuart Turner Customer Support Service on 01491 572655 or email us at [pumps@stuart-turner.co.uk](mailto:pumps@stuart-turner.co.uk)

# Technical Specifications

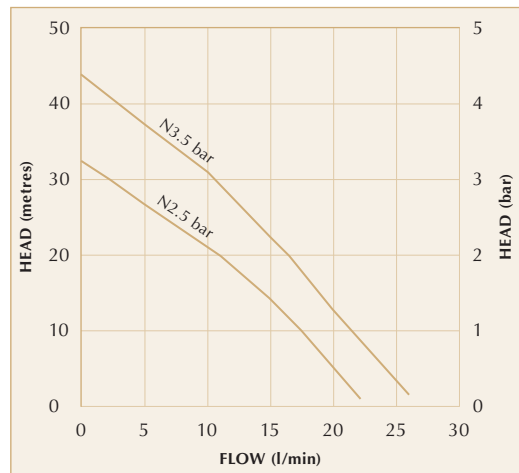


Description		Performance					Mechanical				
		Performance (bar) @ 9 Litres Per Minute (one shower)	Performance (bar) @ 18 Litres Per Minute (two showers)	Maximum Flow Litres Per Minute	Maximum Head Valve Closed (bar)	Maximum Inlet Static Head (Metres)	Hoses G <sup>3/4</sup> " Male x 22mm Push-in c/w isolating valves x 305mm long	G <sup>3/4</sup> " Male Pump Connections	Inlet Strainer	Stuart Hard Faced Mechanical Seal	WRAS Compliant 65°C max
<b>PART No:</b>	<b>MONSOON MODEL</b>										
46410	Universal N2.5 bar Twin	2.5	1.9	40	2.8	12	✓	✓	✓	✓	✓
46411	Universal N3.5 bar Twin	3.5	2.8	45	4.3	12	✓	✓	✓	✓	✓
46412	Universal N4.1 bar Twin	3.8	3.2	51	4.5	12	✓	✓	✓	✓	✓
46413	Universal N2.5 bar Single	2.5	0.9	22	3.1	12	✓	✓	✓	✓	✓
46414	Universal N3.5 bar Single	3.5	1.7	26	4.3	12	✓	✓	✓	✓	✓
46415	Standard 1.5 bar Twin	1.5	1.3	55	1.6	14	✓	✓	✓	✓	✓
46416	Standard 2.5 bar Twin	2.5	2.1	60	2.8	14	✓	✓	✓	✓	✓
46417	Standard 3.5 bar Twin	3.5	3.0	65	4.2	14	✓	✓	✓	✓	✓
46418	Standard 4.1 bar Twin	3.9	3.4	78	4.3	14	✓	✓	✓	✓	✓
46419	Standard 2.5 bar Single	2.5	1.6	33	3.2	14	✓	✓	✓	✓	✓
46420	Standard 3.5 bar Single	3.5	2.4	40	4.3	14	✓	✓	✓	✓	✓

Universal Twin Pumps

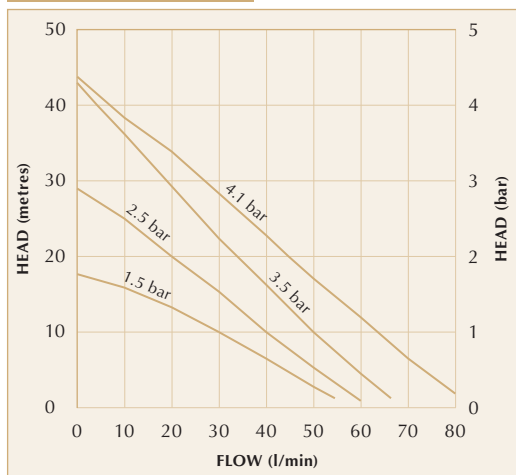


Universal Single Pumps

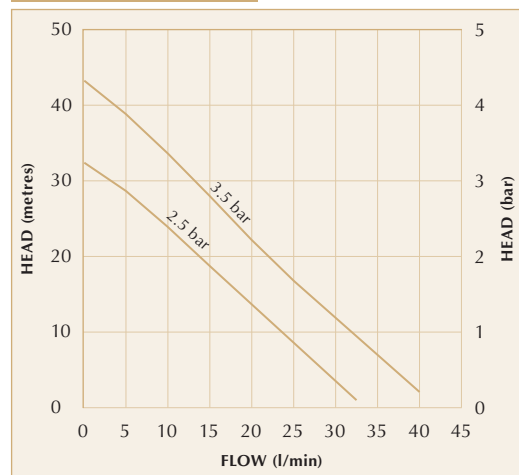


Controls				Electrical								Dimensions			
Flow Switch Sensitivity approx. 0.6 l/min	Pressure Switch	PCB		Power Supply 230/1/50	Enclosure Rating BS EN 60529	Motor Type, Induction, Permanent Capacitor, Auto Resetting Protective Thermotrip	Nominal Power Consumption (Watts) @ 9 l/min	Full Load Amps	Fuse Rating Amps	Pre-Wired	Duty Rating Continuous (S1) @ 9 l/min and above	Length (mm)	Width (mm)	Height (mm) Without Flexibles	Gross Weight Packed (kg)
✓	✓	Run On Timer 3 Sec	Dry Run Protection												
✓	✓	✓		✓	IPX4	✓	561	2.9	5	✓	✓	265	162	237	9.6
✓	✓	✓		✓	IPX4	✓	732	3.9	13	✓	✓	300	162	237	11.5
✓	✓	✓		✓	IPX4	✓	986	5.1	13	✓	✓	310	162	247	12.5
✓	✓	✓	✓	✓	IPX4	✓	280	1.7	5	✓	✓	214	162	237	6.9
✓	✓	✓	✓	✓	IPX4	✓	440	2.5	5	✓	✓	214	162	237	7.6
✓				✓	IPX4	✓	379	1.9	5	✓	✓	265	126	202	7.7
✓				✓	IPX4	✓	546	2.8	5	✓	✓	265	126	202	8.1
✓				✓	IPX4	✓	742	4.0	13	✓	✓	300	126	202	9.9
✓				✓	IPX4	✓	961	4.9	13	✓	✓	310	126	202	10.6
✓			✓	✓	IPX4	✓	285	1.7	5	✓	✓	200	126	202	5.8
✓			✓	✓	IPX4	✓	435	2.4	5	✓	✓	200	126	202	6.5

Standard Twin Pumps



Standard Single Pumps



## Monsoon Application Guide

When boosting a domestic water supply, a host of factors must always be considered. Children or the elderly may require improved flow without the extremes of pressure, while the more young at heart will be looking for increased flow and pressure for high performance showers and taps.

The market offers fittings that fall into two basic categories. Low pressure fittings are designed to operate on gravity fed systems, and fitting a medium pressure pump will really bring the application alive. High pressure fittings on the other hand require a greater performance to operate effectively and installing a high pressure pump will transform the fittings performance to the ultimate experience.

The chart below explains the options for both low and high pressure fittings and how, by using either a medium or high pressure pump, their performance can be more exhilarating.

### MONSOON LEGEND



		Twin Pumps						Single Pumps					
		1.5		2.5		3.5		4.1		2.5		3.5	
		Std	Univ	Std	Univ	Std	Univ	Std	Univ	Std	Univ	Std	
Whole house – Low pressure fittings – Up to 2 bathrooms		✓	✓	✓						✓ (x2)			
Whole house – High pressure fittings – Up to 3 bathrooms			✓	✓	✓	✓	✓	✓				✓ (x2)	
Whole house – High pressure fittings – Up to 3 bathrooms – Large shower systems with multiple outlets					✓	✓	✓	✓				✓ (x2)	
Bathroom only – Low pressure fittings		✓	✓	✓						✓ (x2)			
Bathroom only – High pressure fittings			✓	✓	✓	✓						✓ (x2)	
Standard bath-shower / shower – Low pressure fittings		✓	✓	✓						✓ (x2)			
Standard bath-shower / shower – High pressure fittings			✓	✓	✓	✓						✓ (x2)	
Boost hot water pressure to blend with mains cold water (mixer taps or shower)										✓		✓	
Boost hot or cold water to individual taps										✓	✓	✓	✓
Boost tank fed cold water supply to electric showers										✓		✓	
Boost hot & cold water supplies to apartments – Low pressure fittings			✓							✓ (x2)			
Boost hot & cold water supplies to apartments – High pressure fittings			✓		✓							✓ (x2)	
Boost water supply to combination boiler or unvented stored hot water system										✓		✓	
Boost water supply to unvented stored hot water system		See Monsoon Extra product guide or contact Stuart Turner Customer Support											

Remember, further help and advice is available from Stuart Turner's Customer Support Service. Call 01491 572655

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N.B. All pumps must be installed via a cold water storage cistern. They must not be connected directly to the mains. Information is given as a guide only. A number of other system factors may need to be taken into consideration.

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