Salamander Pumps

So you want a really good shower?

RSP 100

Salamander Pumps

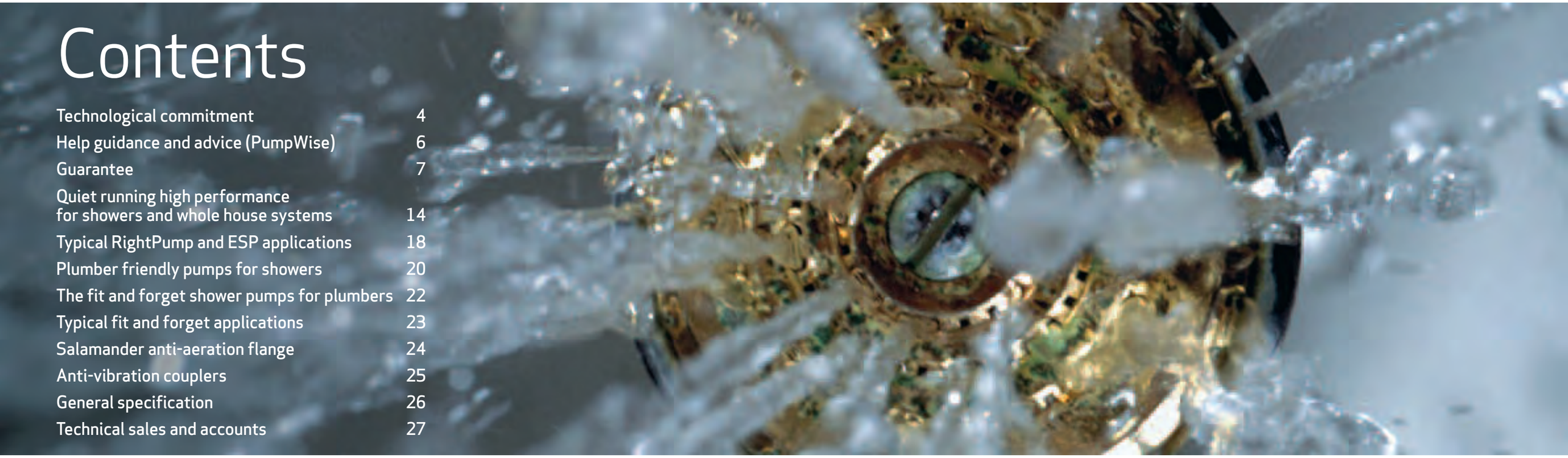
Salamander Pumped Shower Systems Limited

2-10 St Johns Street, Bedford MK42 0DH

Telephone: 0845 377 9160
Facsimile: 0845 377 9180
E-mail: sales@salamanderpumps.co.uk

PumpWise iphe

Do you dance around trying to get wet?



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With the right Salamander pump you can enjoy the shower of your dreams. Softly cascading aerated bubbles will drench, caress, re-invigorate and refresh. This is a shower that will bring peace, comfort, and a feeling of well-being at the beginning or the end of every day.

If your existing shower is tank-fed…

…typically from the loft and an airing cupboard – then why not seek the help, guidance and advice of one of our PumpWise engineers. It's FREE – you speak with real people.

0870 855 4200 (09.00-17.00 weekdays)

Telephone: 0845 377 9160
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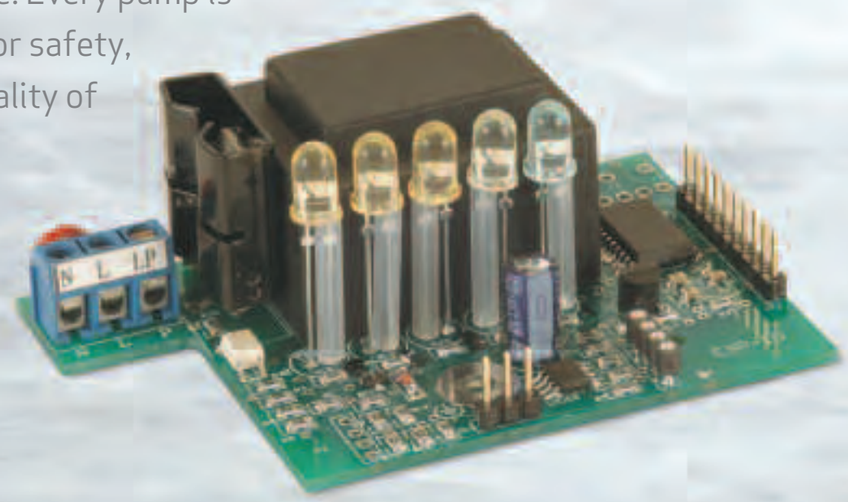
E-mail: sales@salamanderpumps.co.uk

Where the heart is

A technologically advanced and sophisticated electronic heart

All Salamander pumps are designed and engineered to ensure a long and maintenance free life. Every pump is individually tested for safety, performance and quality of workmanship.



The Salamander range features pumps that boost the tank-fed Hot and Cold water services to baths, basins and showers in any domestic system.

All pumps are strong, durable and user friendly. The Salamander flagship pumps enjoy the security and protection of ESP – electronic sensor protection. This technologically advanced and sophisticated heart has been created especially by Salamander and can be found in our top of the range pumps such as the ESP 100 CPV twin featured here.

In pursuit of excellence and the indestructible pump – for a quiet life and peace of mind.

ESP 100 CPV twin

Salamander Pumps

PumpWise

A Salamander initiative to help customers

PumpWise is the cornerstone of Salamander's support service to customers and the means by which our customers are guaranteed –

- Selection of the right pump for the job
- The avoidance of installation pitfalls
- A third year's warranty FREE
- A quiet life and peace of mind.

Choosing the right pump for the job

Our helpline engineers guarantee same day response to anyone who asks for technical help, guidance or advice. Simply leave your name, contact telephone number(s) and postcode.

Eliminate the risk of an incorrect installation

If your installation is not straightforward or if you have any reservation or doubts **contact the PumpWise helpdesk immediately.**

Third year's warranty is completely free

To anyone who accepts the helpline engineers advice.

For a quiet life and peace of mind

This commitment to customer care is geared to helping customers help themselves, and to solve any problems you may have. If you act on the advice of our engineers we will accept responsibility for repair or replacement should the selected Salamander pump subsequently fail under its extended warranty.

On-site nationwide support

As a PumpWise customer you have access to our engineers by phone or in person. All you need to do is to call and provide us with your postcode. The PumpWise engineer will resolve your problem quickly over the phone, or if that's not possible, arrange an on-site visit.

For PumpWise help, guidance or advice simply call 0870 855 4200 (09.00-17.00 weekdays)

You speak with real people

- No call waiting. No recorded messages or canned music
- No queuing system

A polite person will ask you the nature of your call and contact details – we guarantee to call you back at our expense.

For more details consult PumpWise
Telephone: 0870 855 4200
Facsimile: 0845 377 9180
E-mail: tech@pumpwise.co.uk

It is essential to make sure that the cold water storage capacity is adequate for all household requirements.

Guarantee

For a quiet life and peace of mind

Two years from date of purchase

Salamander pumps benefit from a two year warranty. This warranty will operate for two years from date of purchase and it is subject only to the correct implementation of the installation guidelines.

PumpWise
Third year warranty FREE

Under the PumpWise Scheme customers who consult a Salamander Helpdesk engineer at or before the date of instalment, and who implement the Salamander recommendations, will benefit from a Third Year Warranty FREE.

The PumpWise Scheme has been devised to ensure customers have a system that works to its fullest potential and is not in any way compromised.

Warranty
The IEW Scheme

Your pump warranty can be extended indefinitely.

The IEW Scheme© (Indefinitely Extended Warranty) exists to protect customers from unexpected or unforeseen pump breakdown.

Under the IEW Scheme customers are guaranteed a no-quibble replacement pump FREE for however many years they decide to participate in the scheme; plus the years of the standard or PumpWise warranty whichever is applicable.

Participation in the IEW Scheme is activated on completion of a standing order mandate for payment of a nominal sum annually.

For more details consult PumpWise
Telephone: 0870 855 4200
Facsimile: 0845 377 9180
E-mail: tech@pumpwise.co.uk

Salamander Pumps

ESP CPV pumps

For a quiet life and peace of mind

The first intelligent shower and whole house booster to combine positive and negative head system applications in one pump – with a built-in pressure vessel and electronic system protection.

ESP CPV Pumps are the culmination of four years intensive research to develop advanced pumps that incorporate micro-electronic technology and sensors. The result is showers that protect users from unexpected or unforeseen conditions.

Making life easier for plumbers

Pump protection and L.E.D. indication

N	●	Negative head operation
P	●	Positive head operation
1	●	System hunting protection
2	●	Dry run protection
3	●	Supply water temperature protection

ESP 100 CPV twin

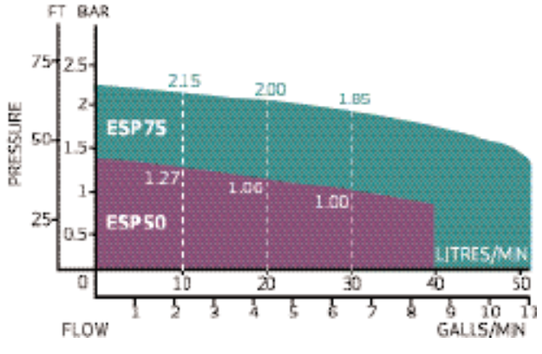
ESP 50 CPV and ESP 75 CPV twin

Positive and/or negative head systems

ESP 75 CPV twin

Designed specifically for one/two bathroom systems where there is a need to boost baths, basins or showers which may be above and/or below the cold water storage tank(s).

Typically – flats, loft and barn conversions.



ESP CPV twin	ESP 50 CPV twin	ESP 75 CPV twin
Applications For flats and houses where the requirement is for a positive and/or negative head pump.	New ESP 50 CPV for tank fed shower and/or whole house systems in flats and houses where the pressure requirement is up to 1.5 bar (30-42ft head).	New ESP 75 CPV as ESP 50 CPV – plus multiple shower systems where the pressure requirement is up to 2.25 bar (65-75ft head).
Performance	**Extremely Quiet**	**Very Quiet**
Closed head pressure Max amps/watts	50ft head (1.5 bar) 1.8 amps/430 watts	75ft head (2.25 bar) 3.2 amps/720 watts
Rating	Continuous at 20°C 230v	Continuous at 20°C 230v

Key

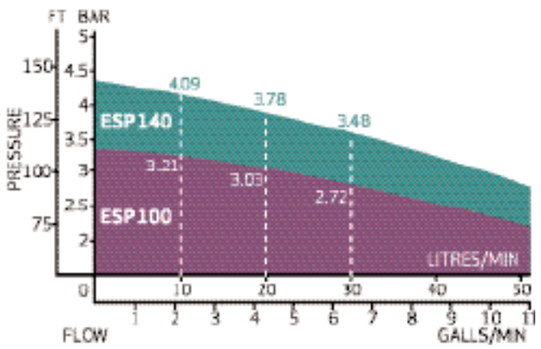
- Watercan
- Conventional spray
- Multifunction massage – champagne spray
- 3 bar shower heads – e.g. Activa
- Body sprays
- Multiple body sprays

ESP 100 CPV and ESP 140 CPV twin

Positive and/or negative head systems

ESP 100 CPV twin

As ESP 50 CPV and ESP 75 CPV twin above, but also for systems where there is a need for greater performance or flow, e.g. shower columns, steam cubicles and multiple body sprays.



ESP CPV twin	ESP 100 CPV twin	ESP 140 CPV twin
Applications As ESP 50/75 CPV above but where there may also be shower columns, steam cubicles or body sprays.	As ESP 75 above but also where there may be body sprays in systems where the pressure requirements is up to 3 bar (100ft head).	As ESP 100 CPV and where the pressure requirement is up to 4.3 bar typically in pre-formed shower columns and cubicles.
Performance	**Quiet**	**Quiet**
Closed head pressure Max amps/watts	110ft head (3.3 bar) 4 amps/960 watts	142ft head (4.3 bar) 6 amps/1440 watts
Rating	Continuous at 20°C 230v	20 mins on/off

Key

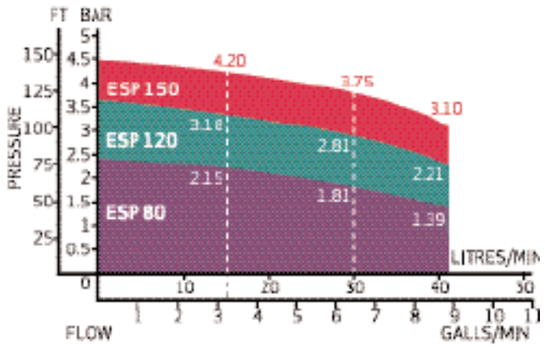
- Watercan
- Conventional spray
- Multifunction massage – champagne spray
- 3 bar shower heads – e.g. Activa
- Body sprays
- Multiple body sprays

ESP 80 CPV and ESP 120 CPV single

Positive and/or negative head systems

ESP 80 CPV single

These single pumps boost supplies to a variety of appliances from tank-fed systems, and are suitable for both positive and negative head systems. Selection should be based on pressure requirements.



ESP CPV single	ESP 80 CPV single	ESP 120 CPV single	ESP 150 CPV single
Applications	To boost tank fed supplies to instantaneous electric showers, water heaters, washing machines and combination boilers – according to inlet pressure requirements. See PumpWise Installation and Warranty Guide.		
Performance	**Extremely Quiet**	**Very Quiet**	**Quiet**
Closed head pressure Max amps/watts	80ft head (2.42 bar) 2.4 amps/580 watts	120ft head (3.64 bar) 2.7 amps/650 watts	150ft head (4.5 bar) 5 amps/750 watts
Rating	TEFC continuous	TEFC continuous	30 mins on/off

Key

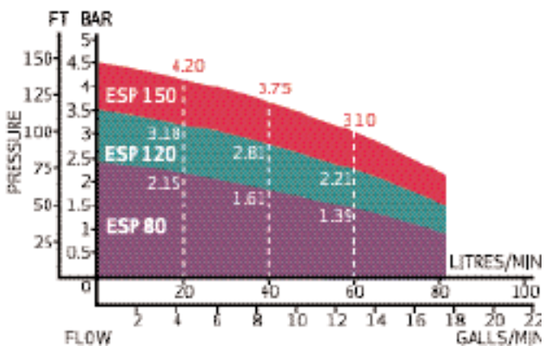
- Watercan
- Conventional spray
- Multifunction massage – champagne spray
- 3 bar shower heads – e.g. Activa
- Body sprays
- Multiple body sprays

ESP CPV super boosters

Positive and/or negative head systems

ESP 120 CPV super boosters

The choice of super booster is determined by establishing the pressure required at the outlets. These boosters are suitable for both positive and negative head systems.



ESP CPV SB	ESP 80 CPV SB	ESP 120 CPV SB	ESP 150 CPV SB
Applications Created to meet the requirements of those who live in larger houses or whose idea of a really good shower is a total deluge.	Each Super Booster comprises two single pumps, one each to independently boost hot and cold water services. These pumps can be positioned together or remotely one from the other.		
Performance	**Extremely Quiet**	**Very Quiet**	**Quiet**
Closed head pressure Max amps/watts	80ft head (2.40 bar) 1.8 amps/430 watts	120ft head (3.64 bar) 3.2 amps/720 watts	150ft head (4.5 bar) 5 amps/750 watts
Rating	TEFC continuous	TEFC continuous	30 mins on/off

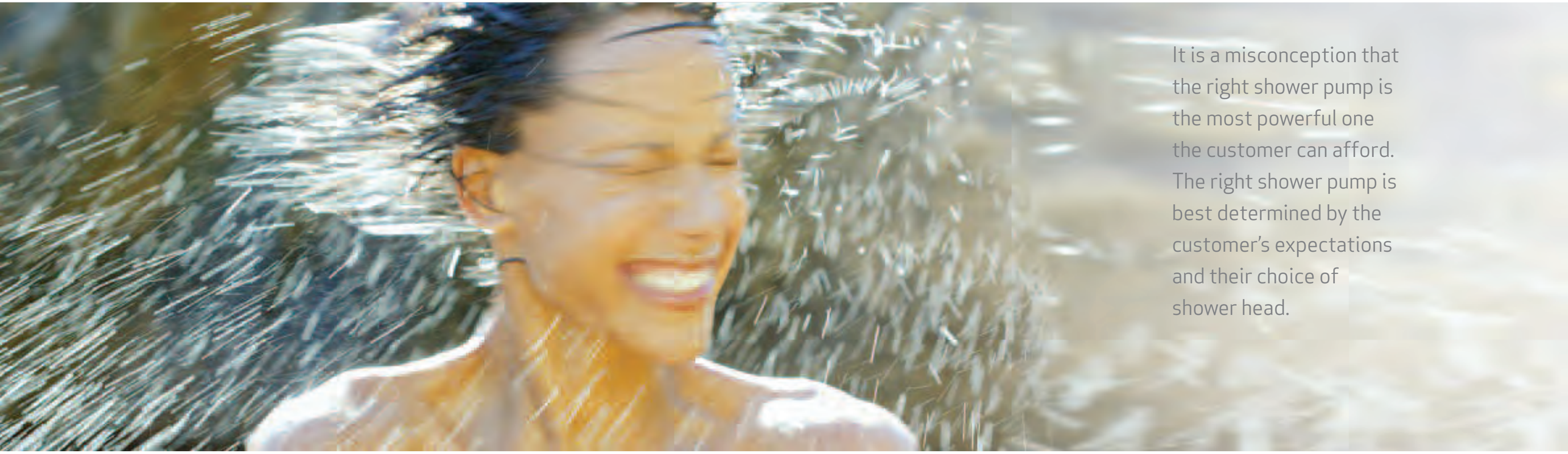
Key

- Watercan
- Conventional spray
- Multifunction massage – champagne spray
- 3 bar shower heads – e.g. Activa
- Body sprays
- Multiple body sprays

Salamander Pumps

RightPumps
FOR POWER SHOWERS

The showering sensation for life



It is a misconception that the right shower pump is the most powerful one the customer can afford. The right shower pump is best determined by the customer's expectations and their choice of shower head.

There are people for whom a shower is functional rather than enjoyable. But the privileged few who have experienced the sheer joy of a really powerful shower find it almost impossible to live without one in their daily routine. To the initiated, a RightPump shower is in a different league to an ordinary shower and a fundamental part of luxury living.

The Salamander range of RightPumps has been specially created for these power shower enthusiasts.

RSP 100

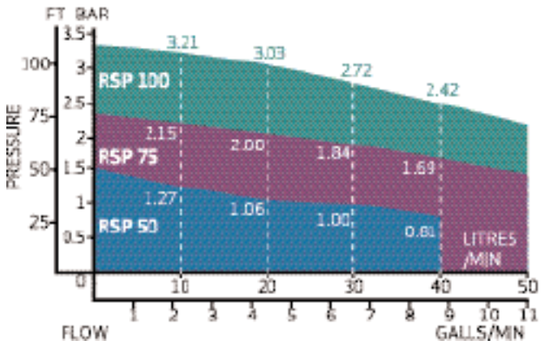
Right shower pumps

Positive head

RSP 100

Designed purely for showers, these twin-ended pumps boost the Hot and Cold supplies to Thermostatic or Manual Mixer valves. Each pump is capable of feeding two or three showers simultaneously.

Not suitable to boost toilets, washing machines or systems where there are baths with individual Hot and Cold taps.



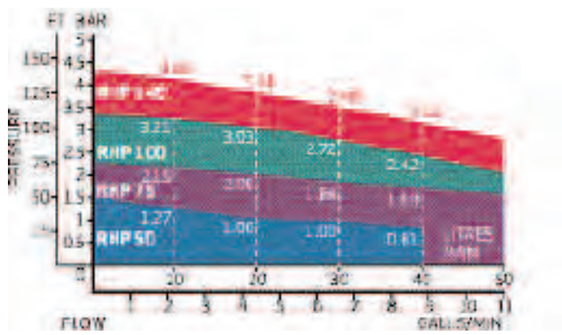
RightPump	RSP 50 twin	RSP 75 twin	RSP 100 twin
Applications Quiet running, high performance pumps for showers.	Purpose made for one or more Victorian style 'can' type heads, or alternatively for more conventional type shower heads.	The ideal choice for multi-function shower heads with massage and champagne spray functions.	As RSP 75 plus up to four body (wall) sprays. Definitely the Right choice for 3 bar shower heads such as Activa.
Performance	**Extremely Quiet**	**Very Quiet**	**Quiet**
Closed head pressure Max amps/watts	50ft head (1.5 bar) 1.8 amps/430 watts	75ft head (2.25 bar) 3.2 amps/720 watts	110 ft head (3.3 bar) 4.0 amps/960 watts
Rating	Continuous at 20°C 230v	Continuous at 20°C 230v	Continuous at 20°C 230v
Key			
Watercan			
Conventional spray			
Multifunction massage – champagne spray			
3 bar shower heads – e.g. Activa			
Body sprays			
Multiple body sprays			

Right whole house pumps

Positive head

RHP 75

Designed specifically for whole house systems, these twin-ended pumps are uniquely equipped with a bypass loop. This technological breakthrough facilitates cooling of the closed head chamber, even when the active end is boosting the supply to toilets, washing machines or to a bath tap.



RightPump	RHP 50 twin	RHP 75 twin	RHP 100 twin	RHP 140 twin
Applications Quiet running, high performance pumps for the whole house or just for the bathroom.	Whole house flats and houses with low resistance outlets.	Whole house flats and houses with high resistance outlets where there may also be showers with pulsating or champagne spray.	As RHP 75 twin, but where there may be body sprays and a shower system which requires min. 3 bar (100 ft. head) e.g. Activa.	Typically to preformed shower columns or cubicles or sophisticated shower systems which require high pressure.
Performance	**Extremely Quiet**	**Very Quiet**	**Quiet**	**Quiet**
Closed head pressure Max amps/watts	50ft head (1.5 bar) 1.8 amps/430 watts	75ft head (2.25 bar) 3.2 amps/720 watts	110 ft head (3.3 bar) 4 amps/960 watts	140 ft head (4.3 bar) 6 amps/1440 watts
Rating	Continuous at 20°C 230v	Continuous at 20°C 230v	Continuous at 20°C 230v	20 mins on/off
Key				
Watercan				
Conventional spray				
Multifunction massage – champagne spray				
3 bar shower heads – e.g. Activa				
Body sprays				
Multiple body sprays				

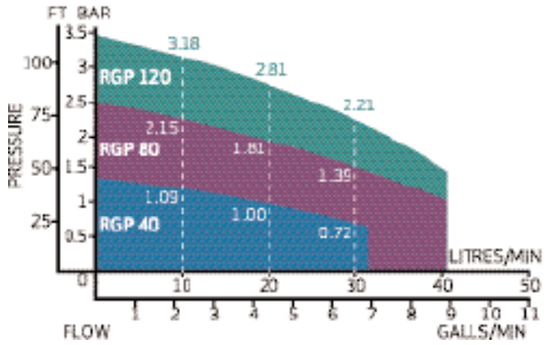
Right single pumps

Positive head

RGP 80

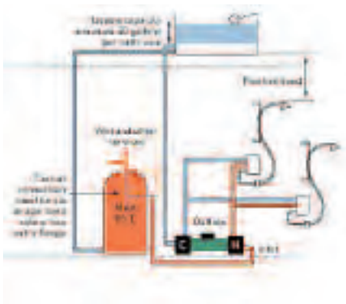
A new and innovative range of single outlet pumps. Compact and smooth running with sustained flow.

The right single pump to boost supplies to a variety of appliances from tank-fed systems should be selected according to pressure required.



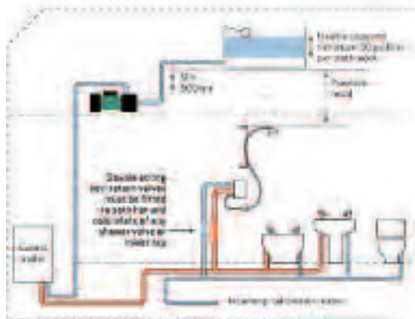
RightPump	RGP 40 single	RGP 80 single	RGP 120 single
Applications	To boost tank fed supplies to instantaneous electric showers, water heaters, washing machines and combination boilers – according to inlet pressure requirements. See PumpWise Installation and Warranty Guide.		
Performance	**Extremely Quiet**	**Very Quiet**	**Quiet**
Closed head pressure Max amps/watts	43ft head (1.3 bar) 2.0 amps/480 watts	80ft head (2.42 bar) 2.4 amps/580 watts	115ft head (3.64 bar) 2.7 amps/650 watts
Rating	TEFC continuous	TEFC continuous	TEFC continuous
Key			
Watercan			
Conventional spray			
Multifunction massage – champagne spray			
3 bar shower heads – e.g. Activa			
Body sprays			
Multiple body sprays			

Typical Right Pump and ESP applications

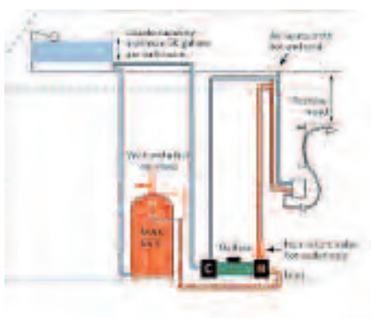


In systems where there are communal risers (e.g. block of flats) or secondary circuits – pumped or otherwise contact the PumpWise helpline for advice.

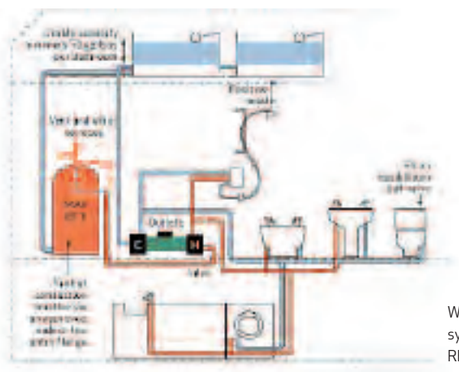
In positive head systems, allow for increased resistance of long pipe runs with multiple bends. The natural flow from the shower head or other outlets MUST be at least 1 litre/min per side (hot or cold).



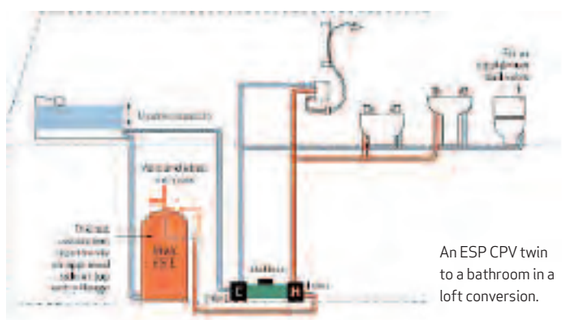
Tank fed, pressurised cylinder or combi boiler system with Right ESP 80 CPV single to boost the hot supply water pressure and cold water mains supplies "cold" to shower, bath, basin and toilet.



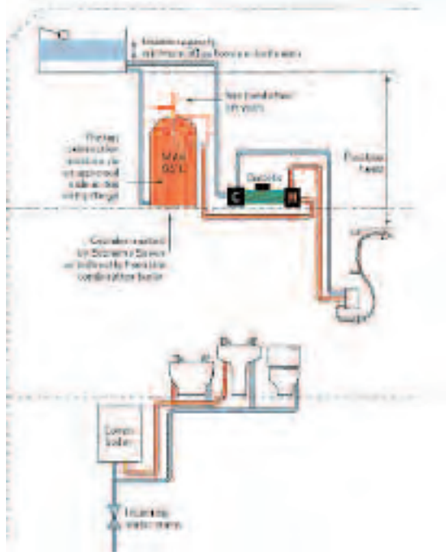
Up and over pipework from any RSP twin pump.



Whole house system with any RHP twin pump.



An ESP CPV twin to a bathroom in a loft conversion.



Combi boiler system with RSP twin pump to boost the shower from a CWS tank and a direct cylinder.

Salamander Pumps

New Pearl pumps

The plumber friendly pumps for showers

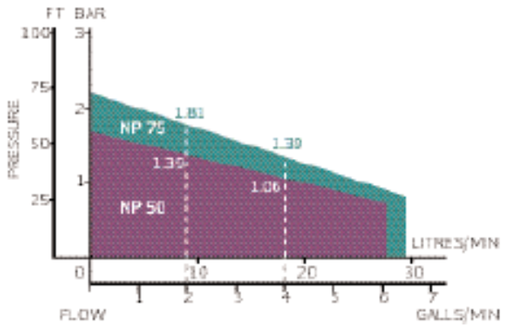
New Pearl pumps complete with straight and angled push fit AV couplers with built-in isolating valves.

New Pearl twins

Regenerative, positive head

NP 75

Tough, easy to fit general purpose twin booster pumps. Designed purely to boost the hot and cold supplies to thermostatic or manual shower mixer valves.



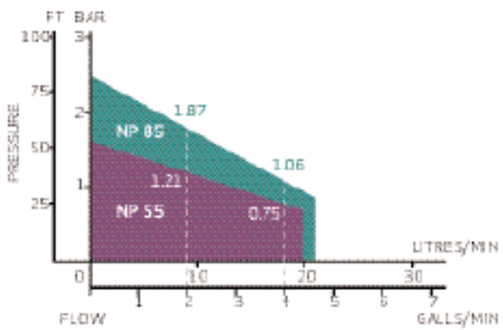
New Pearl twin	NP 50 twin	NP 75 twin
Applications Twin shower specific pumps	The plumber friendly pump for conventional showers or victorian can style shower heads.	A tough and robust choice for multi-function shower heads with massage and champagne functions.
Performance		
Closed head pressure Max amps/watts	50ft head (1.50 bar) 2.0 amps/480 watts	75ft head (2.1 bar) 2.1 amps/500 watts
Rating	Continuous at 20°C 230v	30 mins on/off
Key		
Watercan Conventional spray Multifunction massage – champagne spray		

New Pearl singles

Regenerative, positive head

NP 85

A new and innovative range of single outlet pumps, compact and smooth running. The ideal booster to inadequately supplied water heaters, washing machines or instantaneous electric showers.



New Pearl single	NP 55 single	NP 85 single
Applications To boost supplies to a variety of tank-fed appliances	To boost tank-fed supplies to instantaneous electric showers, water heaters, washing machines and combination boilers – according to inlet pressure requirements. See PumpWise installation guidelines.	
Performance		
Closed head pressure Max amps/watts	55ft head (1.65 bar) 2.0 amps/450 watts	85ft head (2.57 bar) 2.1 amps/460 watts
Rating	TEFC continuous	TEFC continuous
Key		
Watercan Conventional spray Multifunction massage – champagne spray		

Salamander Pumps

CT pumps

The fit and forget shower pumps for plumbers

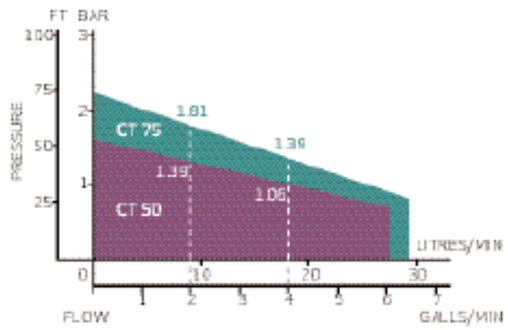
CT pumps – the quick and simple, easy to fit pumps with push fit AV couplers

CT 50/75 twin

Regenerative, positive head

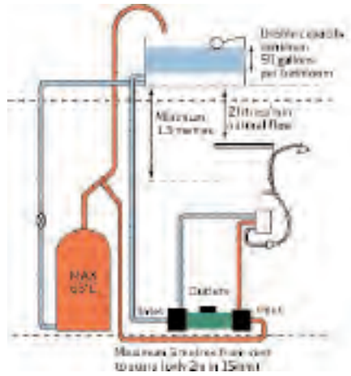
CT 50

Tough, easy to fit general purpose twin booster pumps. Designed purely to boost the hot and cold supplies to thermostatic or manual shower mixer valves.



CT twin	CT 50 twin	CT 75 twin
Applications Twin shower specific pumps	The plumber friendly pump for conventional showers or victorian can style shower heads.	A tough and robust choice for multi-function shower heads with massage and champagne functions.
Performance		
Closed head pressure Max amps/watts	50ft head (1.50 bar) 2.0 amps/480 watts	75ft head (2.1 bar) 2.1 amps/500 watts
Rating	Continuous at 20°C 230v	30 mins on/off
Key		
Watercan		
Conventional spray		
Multifunction massage – champagne spray		

Typical CT pump applications



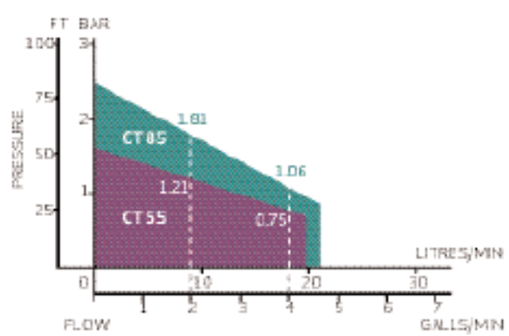
Exclusive hot and cold supplies to the pump with the hot from the vent angled at 45°.

CT 55/85 single

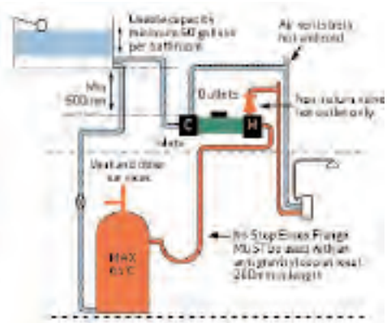
Regenerative, positive head

CT 85

A new and innovative range of single outlet pumps, compact and smooth running. The ideal booster to inadequately supplied water heaters, washing machines or instantaneous electric showers.

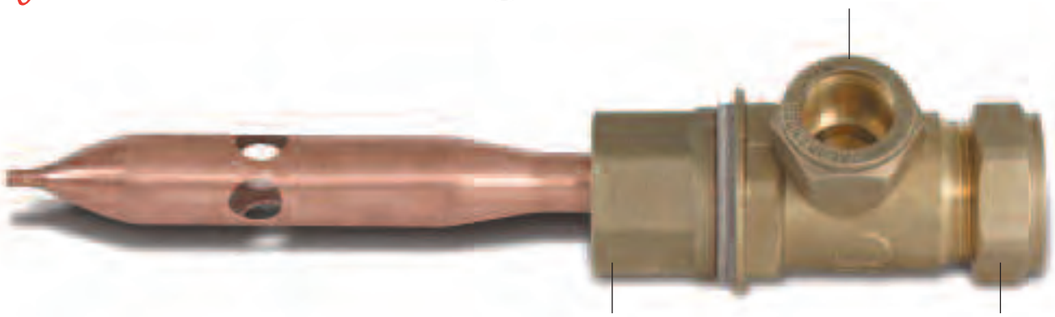


CT single	CT 55 single	CT 85 single
Applications To boost supplies to a variety of tank-fed appliances	To boost tank-fed supplies to instantaneous electric showers, water heaters, washing machines and combination boilers – according to inlet pressure requirements. *See PumpWise installation guidelines.*	
Performance		
Closed head pressure Max amps/watts	55ft head (1.67 bar) 2.0 amps/450 watts	85ft head (2.57 bar) 2.1 amps/460 watts
Rating	TEFC continuous	TEFC continuous
Key		
Watercan		
Conventional spray		
Multifunction massage – champagne spray		



In positive head systems, allow for increased resistance of long pipe runs with multiple bends. The natural flow from the shower head or other outlets MUST be at least 1 litre/min per side (hot or cold).

Salamander S flange

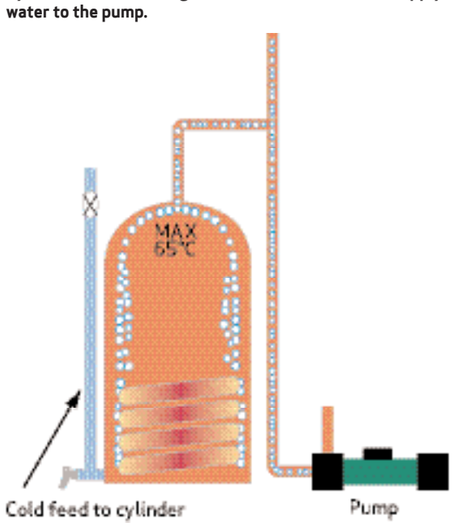


Salamander's uniquely different top entry DZR cylinder flange

- Plumbing is not an exact science and aeration of the supply water to showers and other outlets is a common problem.
- When a pump is fitted to boost the supplies from the cold water storage tank and from the cylinder to showers, baths and basins the risk of aeration is increased many times.

TYPICAL PIPEWORK ARRANGEMENT

Systems without a flange – will risk aeration of the supply water to the pump.



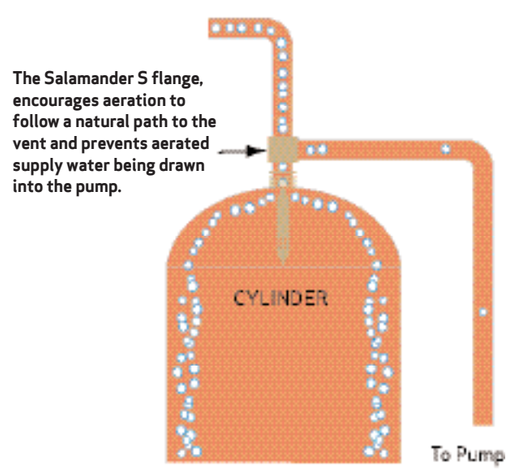
Aeration – aerated supply water to pumps and to showers and other outlets means an increased risk of:

- Unnecessary, perhaps sudden temperature fluctuation at the shower or other outlets.
- A noisy pump.
- Accelerated degradation of the pump's mechanical shaft seals eventually to leak.
- Premature pump breakdown.

A correctly fitted Approved Cylinder flange will mitigate if not prevent these risks.

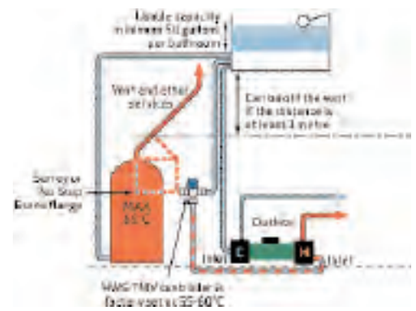
A quiet life and peace of mind for the customer

An easier life for plumbers



HWS-TMV controller

The HWS-TMV controller is designed to protect booster pumps fitted to systems where the stored domestic hot water temperature is uncontrolled e.g. AGA, SOLID FUEL appliances or AUTOMATIC BOILERS very crudely controlled by the boiler thermostat.



Example of an RSP75 twin with HWS-TMV protection

AV couplers

All Salamander pumps are supplied with AV (anti-vibration) couplers in order to limit the transfer of motor and pump vibration to the associated pipe work.

The beneficial effect of AV couplers is lost if they are bent or twisted on installation.

Each pump Single or Twin pump is supplied with one or two each straight and angled AV couplers. This arrangement of couplers facilitates the connection of the supply pipe work from any direction.

General specification

Applications

All Salamander pumps are designed to boost low pressure Hot and Cold supplies from tank-fed services. When supplies from a water heater or a combination boiler are to be boosted contact the Salamander PumpWise* Helpline (0870 855 4200) for guidance.

Voltage

220-240 volts 50 Hz

Motor type

Capacitor start and run induction type motor with stainless steel shaft and in-built resetting thermal protection (complies with BS5000 part 11).

Pump materials

All moulded components are manufactured from WRAS approved Acetal Copolymer and Glass Coupled Polypropolene.

Inlet pressures (maximum)

ESP 50 CPV 15 feet head (1/2 Bar).

All other Right Pumps 30 feet head (1 Bar).

CT50/75 and New Pearl 50 feet head (1 1/2 Bar).

AV couplers

All Salamander AV couplers are 3/4" BSP Fl x 22mm PushFit with built-in isolating valves except those for RSP 50, RGP 40, NP 50 and NP 55 which are 15mm PushFit.

The AV couplers supplied with the CT 50/85/75 DO NOT HAVE built-in isolating valves.

Mechanical seals

Rotary mechanical face seals comprise a carbon rotary element and a ceramic counter face. This combination is resistant to mineral deposits and to abrasion.

Connections

3/4" BSP Male.

Initiation

ESP CPV pumps are fully automatic for both positive and negative head systems. All other pumps require a natural flow of at least 1 litre per minute from a hot or cold outlet for automatic operation in positive head systems.

Temperature

Maximum fluid temperature 60-65° C. ESP CPV pumps will automatically stop running if the hot water temperature exceeds acceptable limits.

Electrical rating

Single Pumps – TEFC continuous. Twin pumps continuous at 20°C 230v except CT 75 and NP 75 which are 30 mins on/off, and RHP 140 and ESP 140 CPV which are 20mins on/off.

All Salamander pumps are fitted with a mains lead and an appropriately fused moulded 3-pin plug.

Incorrect installation may invalidate the pump warranty.

The company operate a policy of continuous development and reserves the right to change any of the specifications of its products without prior notice. All information, data and illustrations given in this leaflet may be subject to variation.

The CE Mark is affixed to all pumps and to the packing. A copy of the declaration of conformity is incorporated in the PumpWise manual, which is supplied with all Salamander pumps.

**PumpWise – A Salamander initiative to help customers and to provide a support service which is second to none.*

Technical, sales and accounts

Technical

Malcolm

Gerry

Mike

Toby

Richard

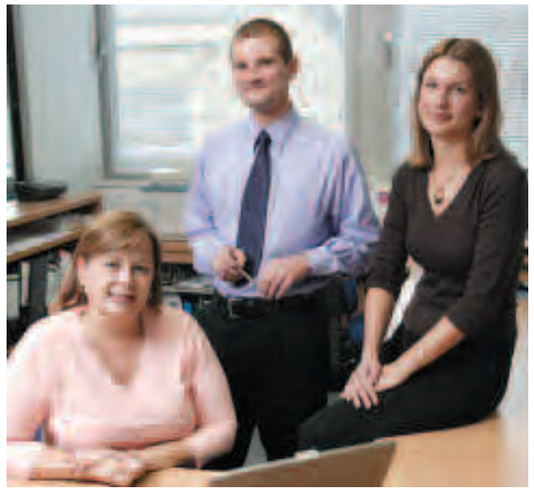
Sales

Gill

Christine

Parv

Accounts



Left – Anita
Centre – Mark
Right – Vicky

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E-mail: sales@salamanderpumps.co.uk