

Salamander Pumps 

Powering up your shower



Salamander Pumps 

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PumpWise  iphe



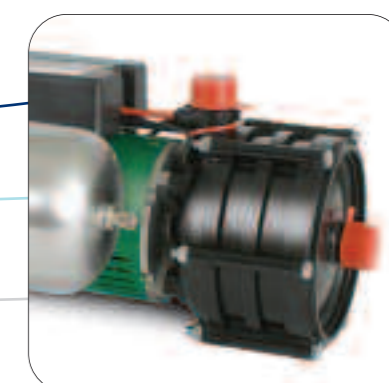
Issue 1/10 5624

The right pump for your shower

Choose a Salamander pump and enjoy stimulating power from your shower. Our comprehensive range of pumps brings you the latest technology and an assurance of quality and reliability – all at exceptional value for money.

Salamander pumps are manufactured in the UK from top quality components, the majority of which are sourced from the EU. Each component is extensively tested for long life and every pump is subject to strict quality controls before it leaves our factory in Sunderland. Our sophisticated use of technology, which incorporates micro electronics and sensors in the ESP range, delivers unrivalled performance that retains pressure even under high flow rate conditions.

All pumps come with installation guidelines and access to our free technical helpline. When installed in accordance with those guidelines we are confident that you will enjoy ownership of your Salamander pump for many years to come.



Contents

The right pump for your shower	1
Intelligent pump control	3
The Salamander pump range	4
Pump application chart	5
CT pumps	7
Right pumps	11
ESP CPV pumps	15
Identifying your plumbing system	20
S flange (Anti-aeration flange)	20
Hot water system supply – thermostatic valve	21
Flexible anti-vibration couplers	21
PumpWise (Help, guidance and advice)	22
Warranty	23
General specification	24
Customer service	25

Intelligent pump control

Salamander's range includes pumps for any domestic situation. Strong, durable and user friendly, Salamander pumps are designed to boost tank-fed hot and cold water services to your home, providing you with a powerful, invigorating shower. If you need to increase the water supply to baths, basins and other appliances as well, simply choose one of the ESP or house pumps.

Our premium shower pumps – the ESP range – enjoy the security and protection of an electronic sensor. This technologically advanced and sophisticated heart has been created especially by Salamander and is unique to our premium range of pumps. An ESP pump will automatically identify whether your water system is positive or negative head and operate accordingly (for a guide to identifying positive or negative head installations, see page 20).

ESP pumps can be used on positive or negative head systems

Single impeller centrifugal

ESP 80 CPV
ESP 120 CPV
ESP 150 CPV

Twin impeller centrifugal

ESP 50 CPV
ESP 75 CPV
ESP 100 CPV
ESP 140 CPV

Super boosters

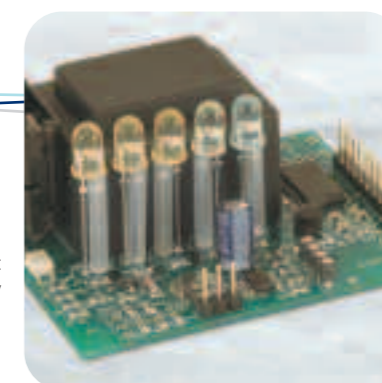
ESP 80 CPV SB
ESP 120 CPV SB
ESP 150 CPV SB

(See page 15 for ESP pump details)



Salamander works to the highest standards. Every pump in our range is designed and engineered to ensure a long, maintenance free life and all are individually tested for safety, performance and quality of workmanship.

Micro electronic technology



The Salamander pump range

Positive head shower pumps

Single impeller Regenerative



CT 55* CT 55+ 1.6 bar



CT 85* CT 85+ 2.5 bar

Single impeller Centrifugal



RGP 40 1.3 bar



RGP 80 2.4 bar



RGP 120 3.6 bar

Twin impeller Regenerative



CT 50* CT 50+ 1.5 bar



CT 75* CT 75+ 2.1 bar

Twin impeller Centrifugal



RSP 50 1.5 bar



RSP 75 2.2 bar



RSP 100 3.0 bar

Negative head shower pumps and whole house pumps

Single impeller Centrifugal



ESP 80 CPV 2.4 bar



ESP 120 CPV 3.6 bar



ESP 150 CPV 4.5 bar

Negative head shower pumps Super Boosters



ESP 80 CPV SB 2.4 bar



ESP 120 CPV SB 3.6 bar



ESP 150 CPV SB 4.5 bar

Twin impeller Centrifugal



ESP 50 CPV 1.5 bar



ESP 75 CPV 2.2 bar



ESP 100 CPV 3.0 bar



ESP 140 CPV 4.3 bar

Whole house pumps

Positive head Twin impeller



RHP 50 1.5 bar



RHP 75 2.2 bar



RHP 100 3.0 bar



RHP 140 4.3 bar

Pump application chart



If you need help in choosing the correct pump, contact PumpWise.

Tel: 0845 377 9160
 Fax: 0845 377 9180
 Email: sales@salamanderpumps.co.uk

For further PumpWise details see page 22.

Pump	Bar	Positive head application	Negative head application	Typical pump applications																
				To a combi boiler†	Instant electric shower†	Instant electric water heater†	Washing machine/dishwasher†	Conventional shower	Victorian can shower head	Multi-function shower	Massage function	Champagne spray	Body jets (4 max)	Whole house showers	Toilets	Wash basins	Individual hot/cold taps/bath			
CT 50* CT 50+	1.5	✓						✓	✓	✓										
CT 75* CT 75+	2.1	✓						✓	✓	✓	✓									
CT 55* CT 55+	1.6	✓					✓ [§]	✓ [§]	✓ [§]	✓ [§]										
CT 85* CT 85+	2.5	✓					✓ [§]	✓ [§]	✓ [§]	✓ [§]	✓ [§]	✓ [§]								
RGP 40	1.3	✓					✓ [§]	✓												
RGP 80	2.4	✓					✓ [§]	✓	✓	✓	✓	✓								
RGP 120	3.6	✓					✓ [§]	✓	✓	✓	✓	✓	✓							
RSP 50	1.5	✓							✓	✓	✓									
RSP 75	2.2	✓							✓	✓	✓	✓	✓							
RSP 100	3.0	✓							✓	✓	✓	✓	✓	✓						
RHP 50	1.5	✓							✓	✓					✓	✓	✓	✓	✓	✓
RHP 75	2.2	✓							✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓
RHP 100	3.0	✓							✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
RHP 140	4.3	✓							✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ESP 80 CPV	2.4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						
ESP 120 CPV	3.6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						
ESP 150 CPV	4.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						
ESP 50 CPV	1.5	✓	✓						✓	✓	✓				✓	✓	✓	✓	✓	✓
ESP 75 CPV	2.2	✓	✓						✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓
ESP 100 CPV	3.0	✓	✓						✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ESP 140 CPV	4.3	✓	✓						✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ESP 80 CPV SB	2.4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						
ESP 120 CPV SB	3.6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						
ESP 150 CPV SB	4.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						

* All hoses are supplied with isolating valves except for CT 50, CT 55, CT 75 and CT 85 pumps
 † Via a header tank
 § May require RCM control modules

CT pumps

Reliable entry level regenerative shower pumps

A range of robust, installer friendly pumps to boost hot and cold water supplies to thermostatic shower valves. They are suitable for multi-function, conventional, and Victorian 'can style' shower heads. Small, compact and easy to fit in tight spaces, the Salamander CT range of shower pumps provides an excellent boost to the shower. As with all Salamander pumps, the CT range is designed for reliability, performance and longevity. Available in twin or single impeller variants. Performance ranges from 1.5 to 2.5 bar pressure.

Push fit flexible anti-vibration couplers (AV) are supplied with all Salamander pumps



Push fit couplers help make pump installation easier. See page 21 for more details.





CT 50/50+/75/75+ twin impeller pumps

Regenerative, positive head

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. Suitable for a wide range of shower types and heads. Supplied with AV couplers.



CT 50

Key



Watercan

Conventional spray

Multi-function massage
- champagne spray



3 bar shower heads

Body sprays

Multiple body sprays

CT twin	CT 50/50+ twin	CT 75/75+ twin
Applications Twin shower specific pumps	For conventional showers, Victorian can style shower heads and multi-function showers.	For conventional showers, Victorian can style shower heads, multi-function showers, massage function or champagne spray.
Performance Closed head pressure Max amps/watts	50ft head (1.5 bar) 2.0 amps/480 watts	75ft head (2.1 bar) 2.1 amps/500 watts
Rating	Continuous	30 mins on/off
Shower head		



CT 55/55+/85/85+ single impeller pumps

Regenerative, positive head

An innovative range of single outlet pumps. Designed to boost supplies to the bathroom and the rest of the house, these pumps will increase flow to any tank fed appliance. Supplied with AV couplers.



CT 85

CT single	CT 55/55+ single	CT 85/85+ single
Applications To boost supplies to a variety of tank-fed appliances	For washing machines and dishwashers as well as conventional showers, Victorian can style shower heads and multi-function showers.	For washing machines and dishwashers as well as conventional showers, Victorian can style shower heads, multi-function showers, massage function or champagne spray.
Performance Closed head pressure Max amps/watts	55ft head (1.6 bar) 2.0 amps/450 watts	85ft head (2.5 bar) 2.1 amps/460 watts
Rating	Continuous	Continuous
Shower head		

Right pumps

Reliable and smooth running centrifugal shower pumps

A range of pumps designed for smooth running with high levels of flow to boost pressures to appliances throughout the home, boosting supplies to wash basins, baths and showers, whether the requirement is for multi-function, conventional or Victorian 'can style' shower heads. The centrifugal impeller gives them quiet running with sustained pressure and flow relative to other shower pump types. Available in twin or single impeller variants, performances range from 1.5 to 4.3 bar pressure.

Push fit flexible anti-vibration couplers (AV) with isolating valves are supplied with all Right and ESP pumps



Isolating valve

Push fit couplers help make pump installation easier. See page 21 for more details.





Right shower pumps

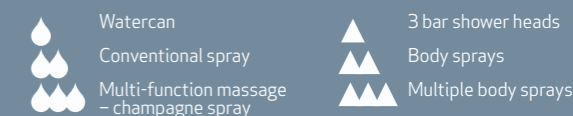
Positive head

Designed purely for showers, these twin-ended pumps boost the hot and cold supplies to thermostatic or manual mixer valves. Pumps are capable of feeding multi outlet applications. Supplied with isolating valve AV couplers.



RSP 100

Key



Right pump	RSP 50 twin	RSP 75 twin	RSP 100 twin
Applications Quiet running pumps for showers. Not suitable to boost toilets, washing machines or individual hot and cold taps.	Purpose made for one or more Victorian can shower heads or conventional shower heads and multi-function showers.	As the RSP 50 twin plus showers with a massage function or champagne spray.	As RSP 50 and RSP 75 plus up to four body jets. Definitely the Right choice for 3.0 bar shower heads.
Performance Closed head pressure Max amps/watts Rating	Quiet* 50ft head (1.5 bar) 1.8 amps/430 watts Continuous	Quiet* 75ft head (2.2 bar) 3.2 amps/720 watts Continuous	Quiet* 100 ft head (3.0 bar) 4.0 amps/960 watts Continuous
Shower heads			



Right whole house pumps

Positive head

Designed specifically for whole house systems, or just the bathroom, these twin-ended pumps are uniquely equipped to handle single or multi outlet use, ie: the hot or cold taps being used individually or both at the same time. Supplied with isolating valve AV couplers.



RHP 75

Right pump	RHP 50 twin	RHP 75 twin	RHP 100 twin	RHP 140 twin
Applications Quiet running, high performance pumps for the whole house including toilets, wash basins or individual hot and cold taps.	Houses and flats with low resistance outlets. Conventional showers, Victorian can style showers, whole house showers, toilets, wash basins, baths, individual hot and cold taps.	As the RHP 50 whole house pump for houses and flats but also suitable for high resistance outlets such as multi-function showers and showers with a massage function or champagne spray.	The RHP 100 and RHP 140 have the same application specifications as the RHP 50 and RHP 75 but can also power showers with up to four body jets.	
Performance Closed head pressure Max amps/watts Rating	Quiet* 50ft head (1.5 bar) 1.8 amps/430 watts Continuous	Quiet* 75ft head (2.2 bar) 3.2 amps/720 watts Continuous	Quiet* 100 ft head (3.0 bar) 4 amps/960 watts Continuous	Quiet* 140 ft head (4.3 bar) 6 amps/1440 watts 20 mins on/off
Shower heads				



Right single pumps

Positive head

A new and innovative range of single outlet pumps. Compact and smooth running with sustained flow. Supplied with isolating valve AV couplers.



RGP 80

Right pump	RGP 40 single	RGP 80 single	RGP 120 single
Applications The right single pump to boost supplies to a variety of appliances.	The RGP 40 is the ideal pump for a washing machine, dishwasher or a conventional shower. The RGP 80 will also power Victorian can shower heads, multi-function showers, massage functions and champagne sprays. As well as the applications already listed the RGP 120 will power up to four body jets.		
Performance Closed head pressure Max amps/watts Rating	Quiet* 43ft head (1.3 bar) 2.0 amps/480 watts Continuous	Quiet* 80ft head (2.4 bar) 2.4 amps/580 watts Continuous	Quiet* 115ft head (3.6 bar) 2.7 amps/650 watts Continuous
Shower heads			

*We state 'quiet' on our centrifugal range of pumps as they are quiet in operation relative to other shower pumps available. Pumps are mechanical in operation and the need to move water in volume or at high pressure will generate some background noise.

ESP CPV pumps

Reliable and smooth running centrifugal pumps that automatically detect and adapt to positive or negative head installations

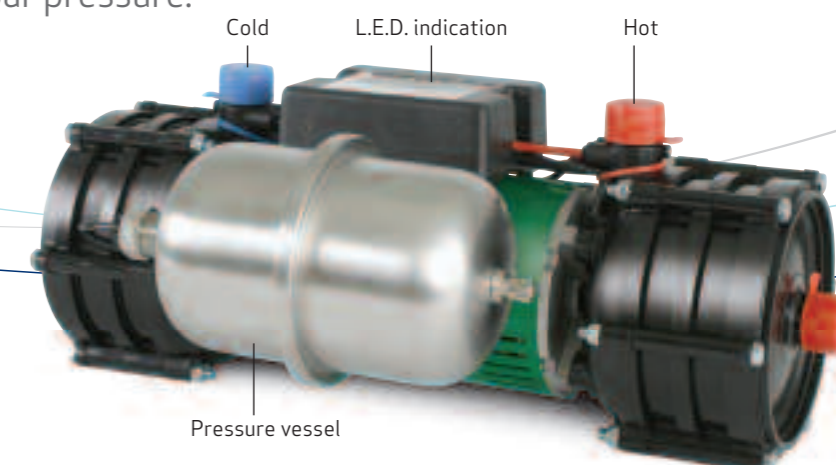
Automatic pump protection and simple LED indication

Salamander's premium range of shower and whole house pumps, these pumps take away the confusion of which pump to buy for the respective plumbing system, as they will automatically detect whether the installation is in positive or negative head. The ESP CPV pumps are a result of extensive research to develop these advanced pumps that incorporate micro-electronic technology and sensors. Quiet running relative to other shower pump types, they are reliable and high in quality.

The first intelligent shower pump with electronic system protection (ESP), can be used for appliances throughout the home, boosting supply to wash basins, baths and showers. The high pressure variants can also be used to boost supplies to body jets and steam cabinets. Available in twin or single impeller variants, performances range from 1.5 to 4.5 bar pressure.

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

Clear indicators on the top of the pump show the electronic system protection is working correctly.



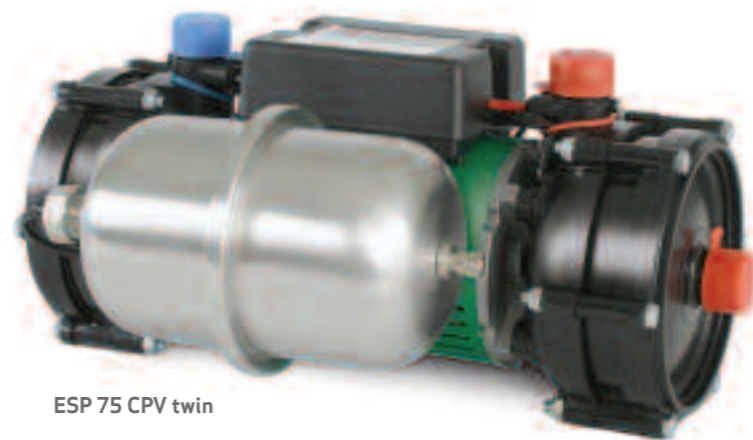


ESP 50 CPV and ESP 75 CPV twin

Positive and/or negative head systems

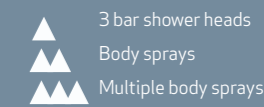
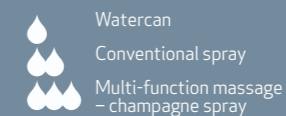
Designed specifically for one or two bathroom systems where there is a need to boost baths, basins or showers which may be above and/or below the cold water storage tank(s).

Typically – flats, loft and barn conversions. Supplied with isolating valve AV couplers.



ESP 75 CPV twin

Key



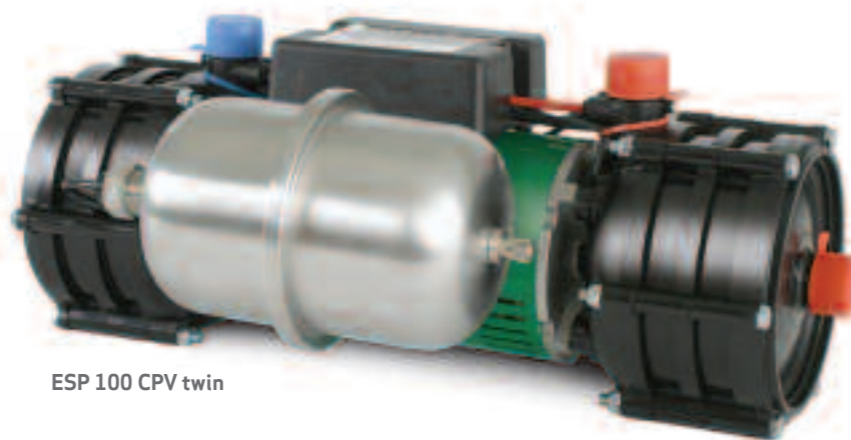
ESP CPV twin	ESP 50 CPV twin	ESP 75 CPV twin
Applications For flats and houses where the requirement is for a positive and/or negative head pump.	For tank fed shower and/or whole house systems in flats and houses where the pressure requirement is up to 1.5 bar (30-42ft head). For conventional showers, Victorian can style showers, multi-function showers, whole house showers, toilets, wash basins and individual hot/cold taps/bath.	As the ESP 50 CPV – plus multiple shower systems where the pressure requirement is up to 2.2 bar (65-75ft head). Also suitable for showers with a massage function or champagne spray.
Performance Closed head pressure Max amps/watts Rating	Quiet* 50ft head (1.5 bar) 1.8 amps/430 watts Continuous	Quiet* 75ft head (2.2 bar) 3.2 amps/720 watts Continuous
Shower head		



ESP 100 CPV and ESP 140 CPV twin

Positive and/or negative head systems

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. Supplied with isolating valve AV couplers.



ESP 100 CPV twin

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 jets/sprays.	As ESP 75 CPV above but also where there may be up to four body jets in the system where the pressure requirements is up to 3.0 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 Closed head pressure Max amps/watts Rating	Quiet* 100ft head (3.0 bar) 4 amps/960 watts Continuous	Quiet* 142ft head (4.3 bar) 6 amps/1440 watts 20 mins on/off
Shower head		

*We state 'quiet' on our centrifugal range of pumps as they are quiet in operation relative to other shower pumps available. Pumps are mechanical in operation and the need to move water in volume or at high pressure will generate some background noise.



ESP 80 CPV and ESP 120 CPV single

Positive and/or negative head systems

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. Supplied with isolating valve AV couplers.



ESP 80 CPV single

Key

- Watercan
- Conventional spray
- Multi-function massage - champagne spray
- 3 bar shower heads
- Body sprays
- Multiple body sprays

ESP CPV single	ESP 80 CPV single	ESP 120 CPV single	ESP 150 CPV single
Applications	To boost tank fed supplies to combination boilers, instantaneous electric showers, instantaneous electric water heaters, and washing machines/dishwashers – according to inlet pressure requirements. Consult PumpWise for help selecting the correct pump, see page 22. These pumps will also power conventional showers, Victorian shower heads, multi-function showers, showers with massage functions or champagne spray. The ESP 120 CPV and ESP 150 CPV will also power up to four body jets.		
Performance	Quiet*	Quiet*	Quiet*
Closed head pressure	80ft head (2.4 bar)	120ft head (3.6 bar)	150ft head (4.5 bar)
Max amps/watts	2.4 amps/580 watts	2.7 amps/650 watts	5 amps/750 watts
Rating	Continuous	Continuous	30 mins on/off
Shower head	2 red water drops	4 blue water drops	4 yellow water drops



ESP CPV super boosters

Positive and/or negative head systems

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. Supplied with isolating valve AV couplers.



ESP 120 CPV super boosters

ESP CPV SB	ESP 80 CPV SB	ESP 120 CPV SB	ESP 150 CPV SB
Applications	Each Super Booster comprises two single pumps, one each to independently boost tank fed hot and cold water services. These pumps can be positioned together or remotely one from the other. Application specification is the same as single versions above.		
Performance	Quiet*	Quiet*	Quiet*
Closed head pressure	80ft head (2.4 bar)	120ft head (3.6 bar)	150ft head (4.5 bar)
Max amps/watts	1.8 amps/430 watts	3.2 amps/720 watts	5 amps/750 watts
Rating	Continuous	Continuous	30 mins on/off
Shower head	2 red water drops	4 blue water drops, 2 blue triangles	4 yellow water drops, 2 yellow triangles

*We state 'quiet' on our centrifugal range of pumps as they are quiet in operation relative to other shower pumps available. Pumps are mechanical in operation and the need to move water in volume or at high pressure will generate some background noise.

Identifying your plumbing system

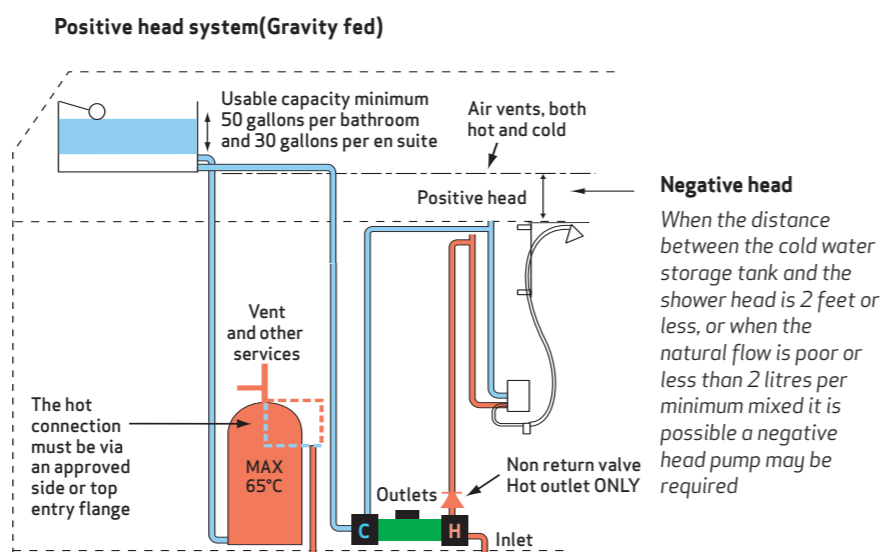
Positive head systems (Gravity fed)

Several different plumbing systems are used in UK homes, the most common of which is a gravity fed system – detailed in the schematic diagram. In these type of systems there is usually a cold water tank in the loft with a hot water tank below it, probably in an airing cupboard.

If your shower is not forceful enough due to insufficient water pressure, this can be easily boosted by the installation of a pump. The diagram shows where the pump should be situated for gravity fed systems.

Negative head systems (Gravity fed)

Negative head systems are where poor natural flow of water goes to the shower head because it is above the height of the base of the cold water tank or there is limited height between the base of the cold water tank and the shower head. Most instances of negative head systems occur in loft conversions or where the cold water tank sits on the joists in the loft. See page 15 for our range of negative head pumps.

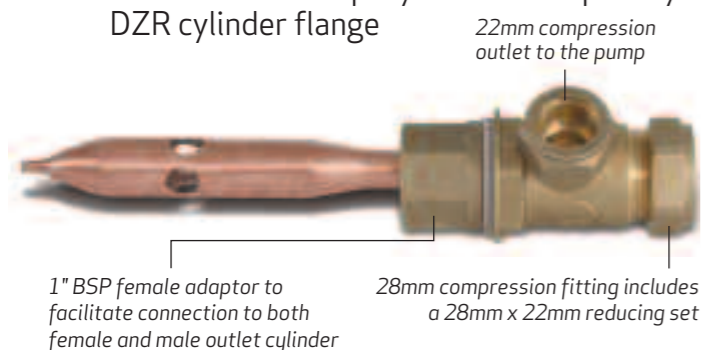


Negative head

When the distance between the cold water storage tank and the shower head is 2 feet or less, or when the natural flow is poor or less than 2 litres per minute mixed it is possible a negative head pump may be required

S flange

Salamander's uniquely different top entry DZR cylinder flange

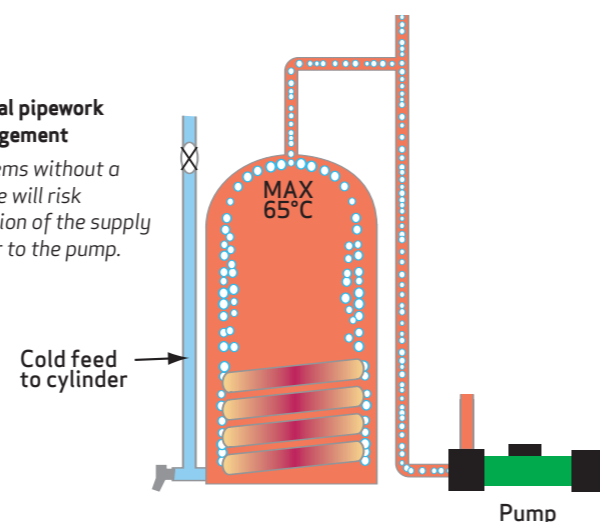


- Plumbing is not an exact science and aeration of the supply water to showers and other outlets is a common problem.
 - When a pump is fitted to boost the supplies from the cold water storage tank and from the cylinder to showers, baths and basins the risk of aeration is increased many times.
- Aeration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

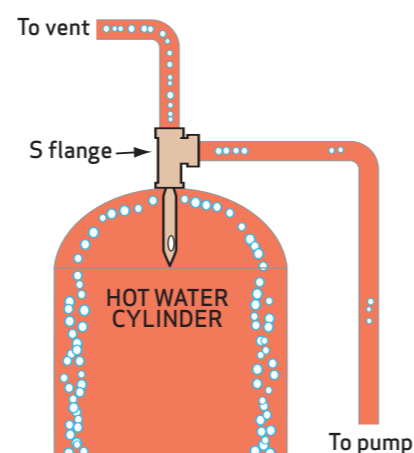
Typical pipework arrangement

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



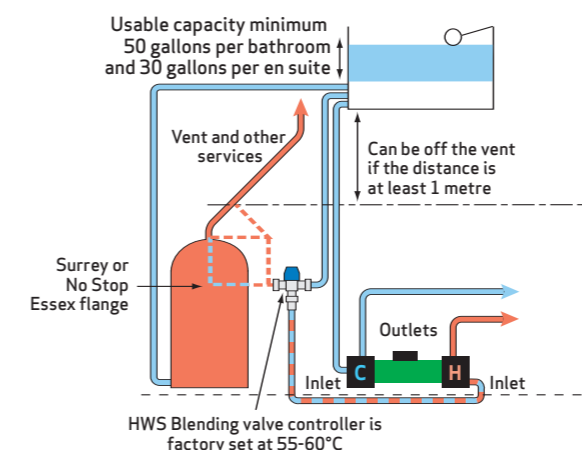
S flange

The S flange will encourage aeration to follow a natural path to the vent and prevents aerated supply water being drawn into the pump.



HWS Blending valve

The HWS Blending valve 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 RSP 75 twin with HWS Blending valve protection



Flexible anti-vibration 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 whether 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.



CT 50, 55, 75 and 85 are supplied with 15mm hoses without isolating valves. CT 50+, 55+, 75+, 85+, RSP 50 and RGP 40 are supplied with 15mm hoses with isolating valves. All remaining pumps are supplied with 22mm hoses with isolating valves.



PumpWise

An 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

✓ Selecting the right pump for the job

We offer technical assistance, guidance or advice to anyone who asks. Contact our sales department.

✓ Eliminate the risk of an incorrect installation

If your installation is not straightforward or if you have any reservation or doubts contact our technical department.

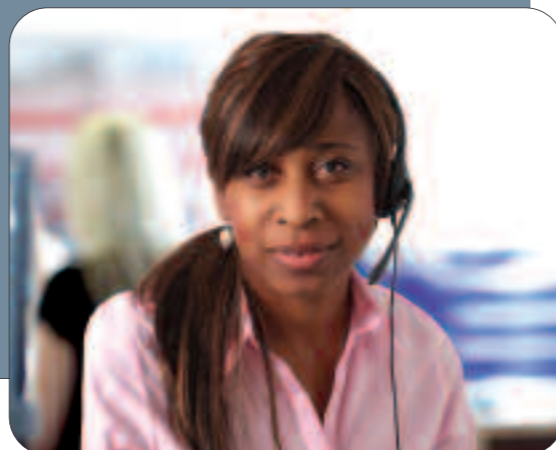
✓ Third year's warranty is completely free

To qualify for the third year's warranty all you have to do is register and follow the engineer's advice. Contact our technical department.

✓ On-site nationwide support

To resolve any on-site technical issues contact us. If required we can arrange for one of our Salamander service engineers to visit the installation.

A Salamander engineer will resolve your problem quickly over the phone, or if that's not possible, arrange an on-site visit.



PumpWise

For PumpWise help, guidance or advice simply call

0845 129 5010
(09.00-17.00 weekdays)

Sales: 0845 377 9160
Technical: 0845 129 5010
Fax: 0845 377 9180

E-mail: sales@salamanderpumps.co.uk
tech@salamanderpumps.co.uk

Warranty

Two years warranty

Salamander customers benefit from a two year warranty. This warranty will operate from date of purchase and is subject only to the installation guidelines being followed correctly.

PumpWise

Third year warranty FREE

Under the PumpWise Scheme customers who consult Salamander and register the pump by phone immediately after installation, and who implement our recommendations, will benefit from a third year warranty FREE.

Warranty

The Extended Warranty Scheme

Your pump warranty can be extended for an additional three years.

The Extended Warranty Scheme exists to protect customers from unexpected or unforeseen pump breakdown.

Under the Extended Warranty Scheme customers are guaranteed a no-quibble replacement pump FREE for a further three years. Plus the years of the standard or PumpWise warranty whichever is applicable.

Participation in the Extended Warranty Scheme is activated on completion of a direct debit mandate for payment of a nominal designated amount. Call sales on 0845 377 9160 and ask for details.



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 0845 129 5010 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 Polypropylene.

Maximum head

ESP 50 CPV	5 metres
CT 50/50+/55/55+/75/75+/85/85+	15 metres
All other pumps	10 metres

Pumps fitted with RCM3 maximum 3 metres static head.

Anti-vibration couplers

CT 50, 55, 75 and 85 are supplied with 15mm hoses without isolating valves. CT 50+, 55+, 75+, 85+, RSP 50 and RGP 40 are supplied with 15mm hoses with isolating valves. All remaining pumps are supplied with 22mm hoses with 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 65°C. ESP CPV pumps will automatically stop running if the hot water temperature exceeds acceptable limits.

Electrical rating

Single Pumps – continuous. Except for ESP 150 CPV single and ESP 150 CPV SB which are 30 mins on/off. Twin pumps continuous except CT 75 and CT 75+ which are 30 mins on/off, and RHP 140 and ESP 140 CPV which are 20 mins on/off. All Salamander pumps are fitted with a mains lead and an appropriately fused moulded three-pin plug, except for the ESP 140 and RHP 140.

Continuous improvement

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.

Standards and approvals

Splash proof rating IPX2.
Complies with the requirements of current British and European safety standards for household and similar electrical appliances.
Meets with Compliance with European Community Directives (CE).
Due to continuous improvement and updating, specifications may be altered without prior notice.

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

Customer service

Sales

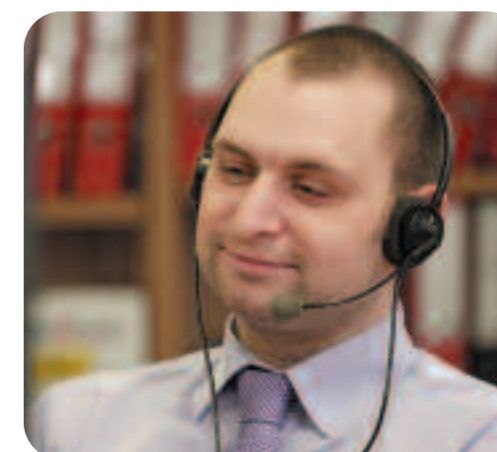


Our team of responsive and supportive internal sales operators are on hand to advise on all enquiries relating to sales orders and advice on which pump best fits your application.

For sales help

Tel: 0845 377 9160
Fax: 0845 377 9180
Email: sales@salamanderpumps.co.uk

Technical advice



Our team of friendly and knowledgeable technical advisers, are at the end of the phone to answer any queries of a technical nature whether pre or post installation.

For technical help

Tel: 0845 129 5010
Email: tech@salamanderpumps.co.uk