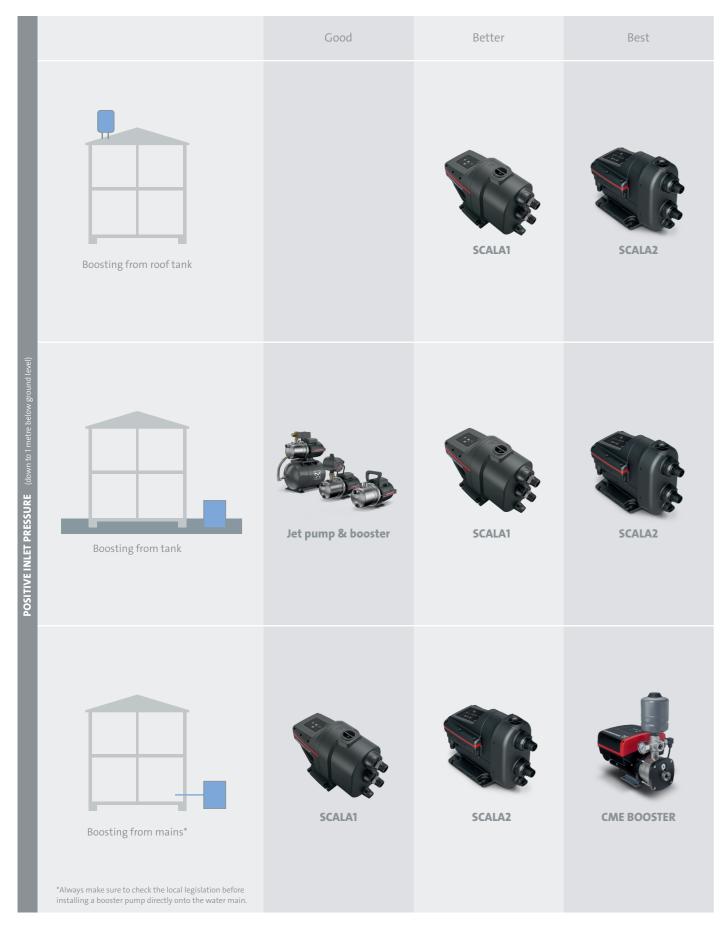
PERFECT WATER PRESSURE JUST WHEN YOU NEED IT

QUICK SELECTION GUIDE

PRESSURE BOOSTING - PUMP SELECTION

Use the table below to select the best Grundfos pump for any type of water supply task.

Once you've settled on a pump model, use the corresponding sizing guide to get the perfect fit.



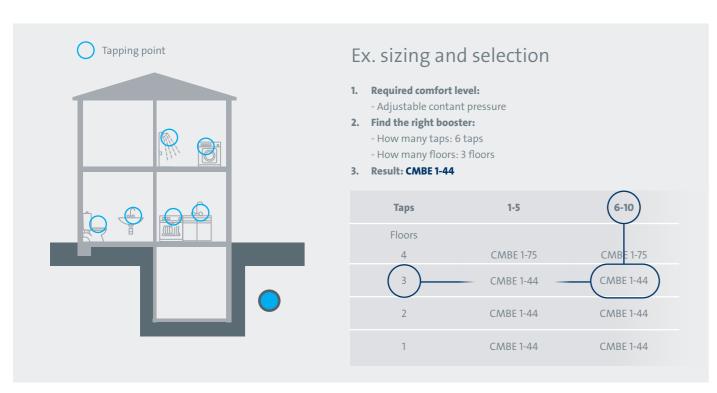
PRESSURE BOOSTING - PUMP SELECTION

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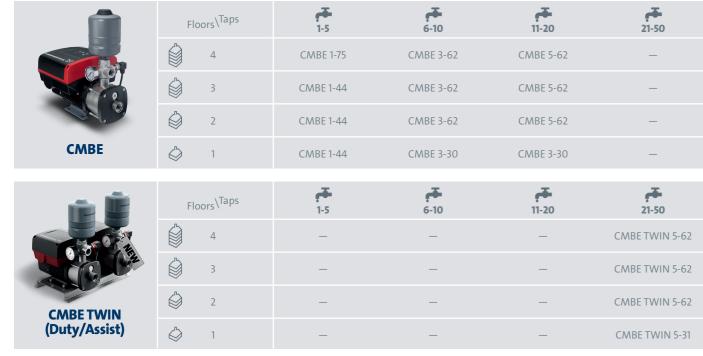
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PRESSURE BOOSTING - QUICK SIZING



ADJUSTABLE CONSTANT PRESSURE LEVEL

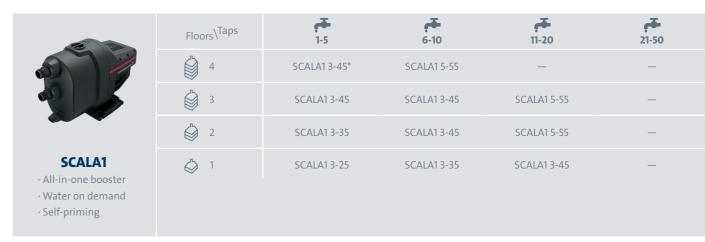




Floors\ ^{Taps}	₽ 1-5	6-10	11-20
4	SCALA2 3-45*	_	_
3	SCALA2 3-45	SCALA2 3-45	_
₽ 2	SCALA2 3-45	SCALA2 3-45	-
₫ 1	SCALA2 3-45	SCALA2 3-45	SCALA2 3-45

PRESSURE BOOSTING - QUICK SIZING

CONVENTIONAL PUMP CONTROL





SCALA1 TWIN (Duty/Assist)

- · Easy solution for twin-booster · Easy installation
- Easy installationEnabled for Grundfos GO Remote

Floors\ ^{Taps}	1-5	6-10	11-20	21-50
4	_	-	SCALA1 TWIN 5-55	SCALA1 TWIN 5-55
3	_	_	_	SCALA1 TWIN 5-55
₽ 2	_	_	_	SCALA1 TWIN 5-55
⊘ 1	_	_	_	SCALA1 TWIN 5-55



Jet pump & booster

Easy to installSelf-primingRobust design

	Taps or m³/h			
	1-5 taps 1-2 m³/h	6-10 taps 3-4 m³/h	11-20 taps 4-5 m³/h	
Manually controlled water supply	JP 3-42	JP 4-47/54	JP 5-48	
Contant water supply with pressure-drop compensation	JP 3-42 PT-V/H	JP 4-47/54 PT-V/H	JP 5-48 PT-V/H	
Constant water supply. Dry-running protection and anti-cycling function	JP 3-42 PM	JP 4-47/54 PM	JP 5-48 PM	

PRESSURE BOOSTING - QUICK SIZING

CONVENTIONAL PUMP CONTROL



1 /	General recommendation	Application	Recommended pump
	If the distance from tank wall to the pump is above 1.5 metres (4.9 feet), the model with side inlet should be selected.	One-storey house For toilet flushing, washing machine, car washing and garden watering	SB 3-35
If the distance from tank wall to the pump is less 1.5 metres (4.9 feet), the model with suction strainer should be selected.	Two-storey house For toilet flushing, washing machine, car washing and garden watering	SB 3-45	

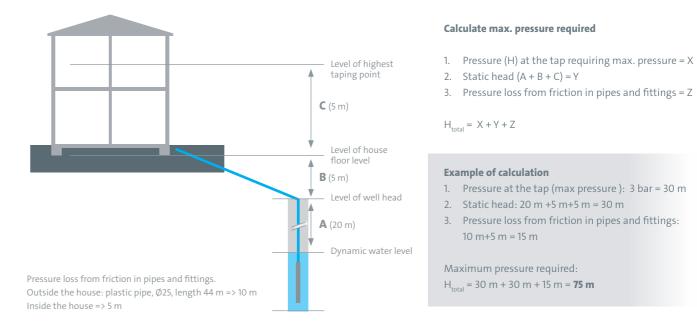
pressure is considered, to achieve 4 bar pressure add 2 more floors • Flooded Suction • 0,5 l/s per tap average, usage pattern is taken into acc

GROUNDWATER - QUICK SIZING - PUMP

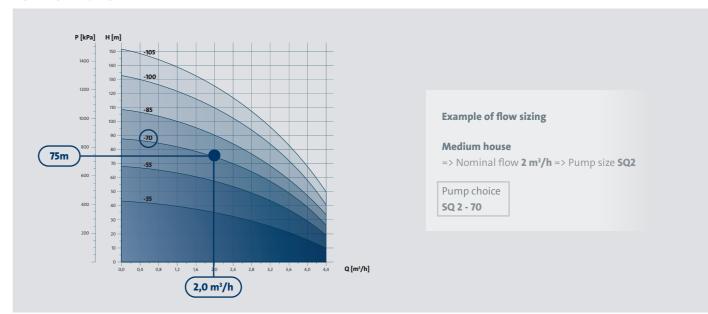
FLOW SIZING



HEAD SIZING

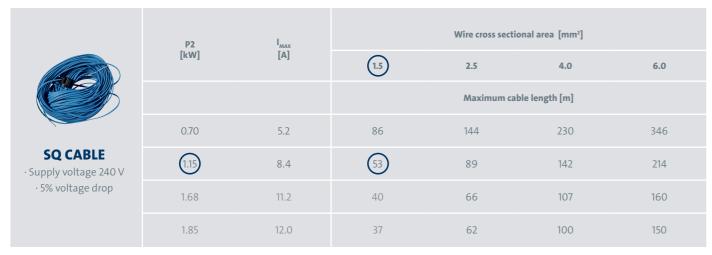


PUMP SELECTION

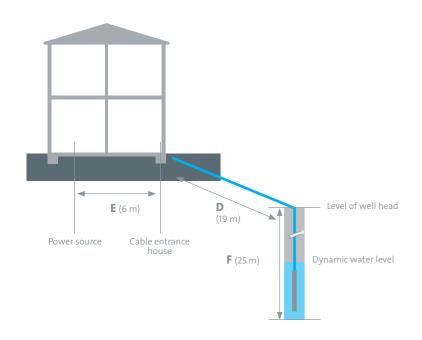


GROUNDWATER - QUICK SIZING - CABLE

MAXIMUM CABLE LENGTH



HOW TO SELECT THE CROSS-SECTIONAL AREA



Supply voltage 240 V 5% voltage drop and cable supplied by Grundfos.

How to select the cross-sectional area of the individual wire of a submersible drop cable

- 1. Select SQ pump incl. motor size
- 2. Required total length of cable (D + E + F)
- 3. Read the cross-sectional area of individual wire of the drop cable

Example:

- SQ pump incl. motor size
 SQ 2-70, motor size 1,15 kW
- 2. Distance from pump to the power source (outside 44 m (D + F) + inside 6 m (E))

50 m

3. Selected cross-sectional area 1,5 mm²

WASTE WATER - PUMP SELECTION

Use the tables below to select the best Grundfos pump for any type of wastewater task. Once you've settled on a pump model, use the corresponding sizing guide to get the perfect fit.

DRAINAGE

		Max. solid size [mm]	
Drainage	Light duty	10 mm	UNILIFT CC
Drainage For portable use or permanent installation, clean or greywater	Light duty	10 mm	UNILIFT KP
and salt water*	Heavy duty	12 mm	UNILIFT AP12
Effluent		35 mm	UNILIFT AP35
Surface- and rainwater as well as gre from sanitary appliances	ywater	35 mm	UNILIFT AP35B
		50 mm	UNILIFT AP50
Sewage/Domestic wastewater Domestic wastewater with toilet discharge		50 mm	UNILIFT AP50B

 $^{^{}st}$ Only special version of UNILIFT CC 7 and 9

DRAINAGE - QUICK SIZING



The selection and sizing illustration is based on an inner diameter of a DN 32



discharge pipe and secure a self cleaning velocity inside the pipe.					
	CC 5	CC 7	CC 9		
Head\ ^{Distance}					
7 m			Max. 45 m		
6 m			Max. 80 m		
5 m		Max. 15 m	Max. 115 m		
4,5 m		Max. 35 m	Max. 130 m		
4 m		Max. 50 m	Max. 150 m		
3 m		Max. 80 m	Max. 180 m		
2,5 m	Max. 10 m	Max. 100 m	Max. 200 m		
2 m	Max. 25 m	Max. 110 m	Max. 215 m		

DRAINAGE - QUICK SIZING



The selection and sizing illustration is based on an inner diameter of a DN 32 discharge pipe and secure a self cleaning velocity inside the pipe.

	KP 150	KP 250	KP 350
Head\Distance			
7 m			Max. 25 m
6 m		Max. 20 m	Max. 60 m
5 m		Max. 50 m	Max. 95 m
4 m		Max. 85 m	Max. 130 m
3,5 m	Max. 15 m	Max. 105 m	Max. 145 m
3 m	Max. 30 m	Max. 120 m	Max. 160 m
2 m	Max. 65 m	Max. 160 m	Max. 195 m



The selection and sizing illustration is based on an inner diameter of a 11/2" pipe for UNILIFT AP12.40 and 2" pipe for UNILIFT AP12.50 and secure a self cleaning velocity inside the pipe.

	AP12.40.04	AP12.40.06	AP12.40.08	AP12.50.11
Head\Distance				
14 m				Max. 8 m
12 m			Max. 40 m	Max. 115 m
10 m		Max. 60 m	Max. 130 m	Max. 250 m
8 m	Max. 45 m	Max. 150 m	Max. 220 m	Max. 370 m
6 m	Max. 135 m	Max. 240 m	Max. 310 m	Max. 490 m
4 m	Max. 225 m	Max. 330 m	Max. 400 m	Max. 610 m
2 m	Max. 320 m	Max. 420 m	Max. 495 m	Max. 735 m

Max. 480 m

DRAINAGE - QUICK SIZING



The selection and sizing illustration is based on an inner diameter of a $\,1\!\!\,/''$ pipe and secure a self cleaning velocity inside the pipe.

	AP35.40.06	AP35.40.08
Head\ ^{Dist} ance		
9 m		Max. 30 m
8 m		Max. 75 m
7 m	Max. 35 m	Max. 120 m
6 m	Max. 80 m	Max. 165 m
5 m	Max. 130 m	Max. 215 m
4 m	Max. 170 m	Max. 255 m
3 m	Max. 220 m	Max. 305 m
2 m	Max. 265 m	Max. 350 m



The selection and sizing illustration is based on an inner diameter of a 2" pipe and secure a self cleaning velocity inside the pipe.

	AP35B.50.06	AP35B.50.08
Head\Distance		
9 m		Max. 15 m
8 m		Max. 75 m
7 m	Max. 20 m	Max. 135 m
6 m	Max. 80 m	Max. 195 m
5 m	Max. 140 m	Max. 260 m
4 m	Max. 200 m	Max. 320 m
3 m	Max. 260 m	Max. 385 m
2 m	Max. 325 m	Max. 440 m

DRAINAGE - QUICK SIZING



The selection and sizing illustration is based on an inner diameter of a 2" pipe and secure a self cleaning velocity inside the pipe. AP50.50.08 AP50.50.11 Head\Distance 9 m Max. 55 m Max. 115 m 7 m Max. 45 m Max. 175 m Max. 235 m Max. 105 m Max. 165 m Max. 295 m 5 m Max. 225 m Max. 360 m Max. 285 m Max. 405 m

Max. 350 m



The selection and sizing illustration is based on an inner diameter of a 2" pipe and secure a self cleaning velocity inside the pipe.

2 m

	AP50B.50.08	AP50B.50.11	AP50B.50.15
Head\ ^{Dist} ance			
14 m			Max. 65 m
12 m			Max. 190 m
11 m		Max. 25 m	Max. 250 m
10 m		Max. 85 m	Max. 310 m
9 m		Max. 145 m	Max. 370 m
8 m	Max. 45 m	Max. 205 m	Max. 430 m
6 m	Max. 165 m	Max. 330 m	*
5 m	Max. 225 m	Max. 390 m	*
4 m	Max. 285 m	Max. 450 m	*
3 m	Max. 345 m	*	*
2 m	Max. 490 m*	Max. 740 m*	Max. 1060 m*

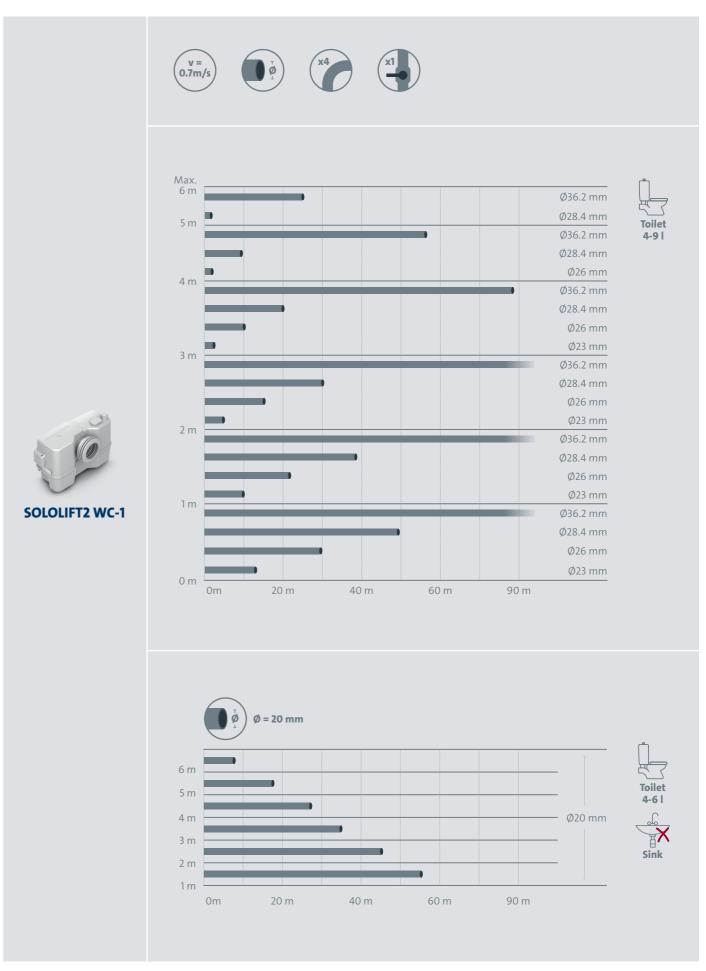
^{*}The pumps shall not operate for longer time with this Head

LIFTING STATIONS

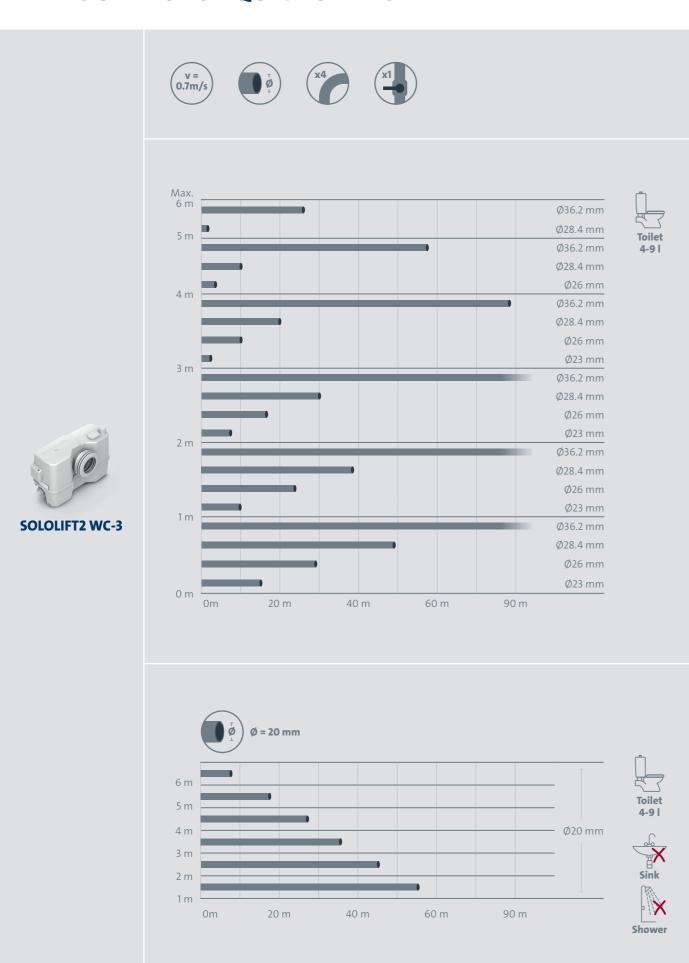
Fixed inlet Additional optional inlet

	- integration				
	SOLOLIFT2 WC-1	SOLOLIFT2 WC-3	SOLOLIFT2 D-2	SOLOLIFT2 C-3	SOLOLIFT2 CWC-3
Toilet					
Wall- mounted toilet					
Urinal	\bigcirc	\bigcirc			\bigcirc
Sink	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Bidet		\bigcirc	\bigcirc	\bigcirc	\bigcirc
Shower		\bigcirc	\bigcirc	\bigcirc	\bigcirc
Bathtub				\circ	
Washing machine				\bigcirc	
Kitchen sink				\bigcirc	
Dish- washer				\bigcirc	
Water					

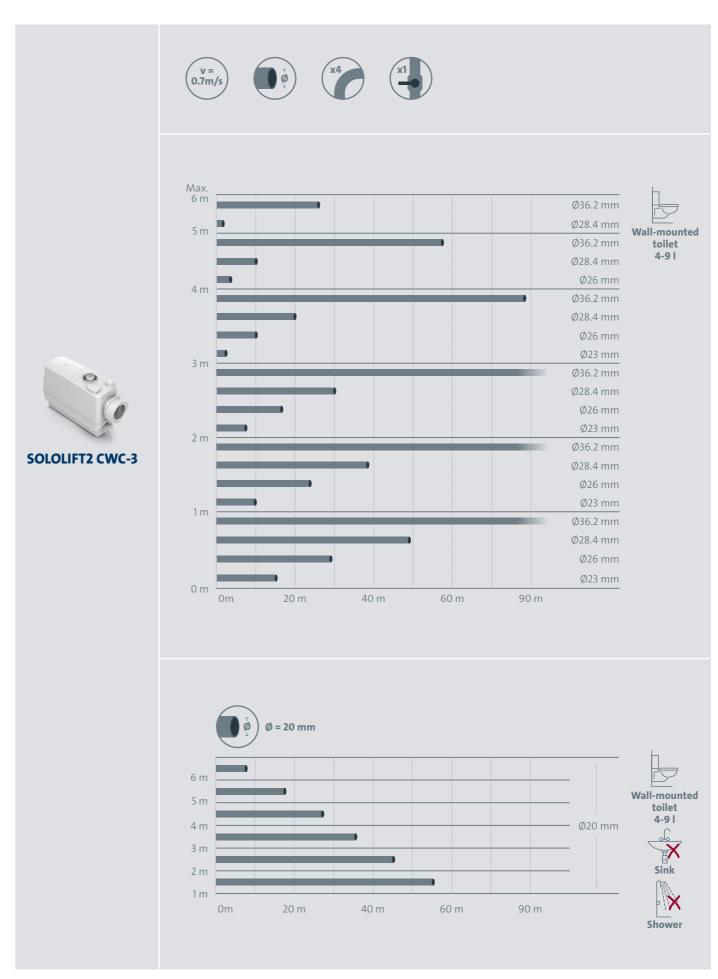
LIFTING STATIONS - QUICK SIZING



LIFTING STATIONS - QUICK SIZING

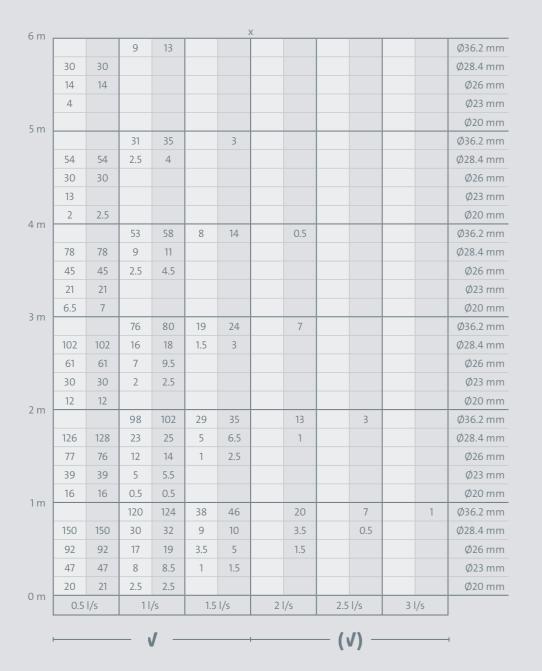


LIFTING STATIONS - QUICK SIZING



LIFTING STATIONS - QUICK SIZING







LIFTING STATIONS - QUICK SIZING



SOLOLIFT2 D-2

4 m 👝	X											
					Ø28.4 mm							
3 m	6				Ø20 mm							
, _		24			Ø28.4 mm							
	22	0,1			Ø20 mm							
2 m		47	3		Ø28.4 mm							
1	37	4.5			Ø20 mm							
1m		71	10		Ø28.4 mm							
	52	9,5			Ø20 mm							
) m	0.25 l/s	0.5 l/s	1 l/s	1.5 l/s								

PRESSURE BOOSTING – SHOWER PUMP SELECTION













AMAZON SSP

AMAZON STP

AMAZON SSP Universal AMAZON STP Universal

Pump Type STR2 & SSR2							AMAZON											
Bar Pressure	1	1.5	2	.0	2	.0	1	1.5	2	2.0	3	.0		1.0	2	2.0	3	.0
	Twin		Single				Twin				Single		Single					
Product Model	STR2-1.5 C	STR2-1.5 CN	STR2-2.0 C	STR2-2.0 CN	SSR2-2.0 C	SSR2-2.0 CN	STP-1.5 B	STN-1.5 B	STP-2.0 B	STN-2.0 B	STP-3.0 B	STN-3.0 B	STP-4.0 B	STN-4.0 B	SSP-2.0 B	SSN-2.0 B	SSP-3.0 B	SSN-3.0 B
Positive / Universal Head	Positive	Universal	Positive	Universal	Positive	Universal	Positive	Universal	Positive	Universal	Positive	Universal	Positive	Universal	Positive	Universal	Positive	Universal
Application																		
Boost hot or cold to individual taps																		
Bath or Basin Mixer							•											
Boost Hot Water (Cold Mains & Gravity Hot)						•												
Shower Only (Hot & Cold Gravity)																		
Multi Function Shower Head																		
Standard Bath Mixer/Shower																		
Shower Column (Gravity Hot & Cold)																		
Bathroom Booster																		
Electric Shower (Tank Fed)																		
Boost to Combination Boiler (From Tank)															•			
Boost to Unvented Hot Water Storage (from Tank)																		
House Booster (Gravity) - 2 Bathrooms											•		•					
House Booster (Gravity) - 3 Bathrooms													•	•				
Construction Material			Com	posite									Brass					
Pump Noise Level at 1m	55 - 65 dBA							55 - 65 dBA < 70 dBA 55 - 65 dBA							65 dBA			
Min Pipe Size (Reducer may be required)	15 mm							22 mm										

 $^{^*}$ All product continuously rated / * Amazon Range WRAS Approved, all other ranges WRAS compliant.

SHOWER PUMP BASICS

When selecting a shower pump, it is important to consider if the system is positive or negative head and what pressure is desired.

Negative Head System

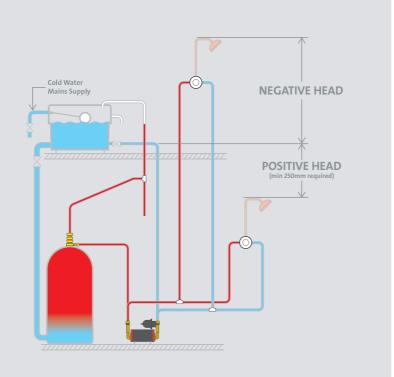
A negative head condition exists where the flow from the outlet is less than 0.5 litre/min. This is usually when there is insufficient pressure, under gravity, to provide a flow at the outlet.

Positive Head System

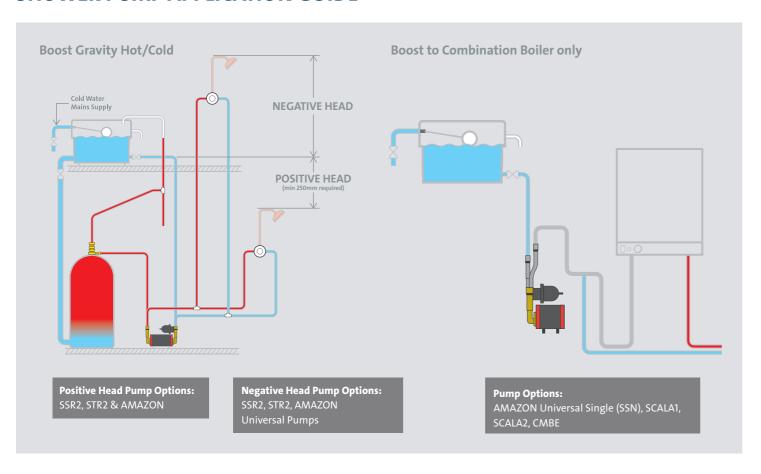
A positive head condition exists where the flow from the outlet is more than 0.5 litre/min. This is usually when there is sufficient pressure, under gravity, to provide a flow at the outlet.

Pump Pressure (measured in Bar)

In pump performance, 1.0 Bar is generally considered low pressure, 1.5-2.0 Bar medium pressure and ≥3.0 Bar high pressure, eg. to run multiple showers/heads.



SHOWER PUMP APPLICATION GUIDE



SHOWER PUMP APPLICATION GUIDE

