

Flow Loop – Technical Data Sheet

The document contains technical data for use in connection with the installation and operation of the LOOP shower.

Flow Loop's Recirculating Shower

Flow Loop's recirculating shower recirculates the water while you shower. You only recirculate your own water and you decide whether the shower recirculates or not. In this way, you can achieve water and energy savings at the same time as you get a very comfortable shower experience.

Flow Loop's recirculating shower can be installed in most existing bathrooms without the need for remodeling. The shower is mounted directly on the wall with screws and connected to the existing water outlet.

Main components

- Wall-mounted chassis, containing recirculation and water purification system and SIM card.
- Front panel
- Head and hand shower, mixer tap and regulator.
- Service access for maintenance.
- Flow Loop drain.
- Electrical installation kit (230V → 24V converter + cable).
- Water installation kit: Flexi-hoses with 3/4" thread.
- Mounting kit: 1 bracket, 4 screws and spacers for wall mounting.
- Maintenance kit: Filters and cleaning tabs (sold separately).

WARNING

The product must not be taken apart and contains **no individual parts** that must be replaced by persons who are not authorized to do so by Flow Loop ApS.

The exception, however, is the microfilter, which must be replaced in connection with normal maintenance.

The product contains a UV-C lamp. If the front panel of the Flow Loop shower is removed, there will be access to the closed housing of the UV-C lamp.

Damage to the UV-C lamp's housing, or use of the UV-C lamp for other purposes than the original one, can cause a risk of leakage of UV-C light.

The UV-C lamp must never be switched on if it has been removed from the product.

Even small doses of UV-C light can damage the skin and eyes.

The product is connected to the power supply via cable. If there is damage to the cable, it must be replaced by an authorized technician.

Technical Data

Standards and Safety	
Standard for legal installation and use.	The product is CE marked. According to DS/HD 60364-7-701:2007 for electrical installations in wet rooms, is: <ul style="list-style-type: none"> • The shower and shower panel approved for installation in Area 1. • The power supply approved for installation in Area 2.
Electricity, operating voltage.	24VDC (internally in the shower panel).
Standard for water quality.	The product meets the requirements for EU Excellent Bathing Water Quality 2006/7/ec.
Water purification technology.	Filter 1: Pre-filter 400 µm. Filter 2: Microfilter 10 µm. Filter 3: UV light, 253 nm log 4-6 (removes ~99.99% of pathogenic bacteria).
Protection against contaminated water in the shower.	In the event of a UV light failure, recirculation cannot be activated.
Protection against water overflow in the shower cabin.	Flow Loop's drain is equipped with overflow protection.
Separation between drinking water supply and recirculated shower water.	Air gap cf. EN1717.
Protection against scolding and stable water temperature.	Safety and comfort cf. EN1111, section 13.2-13.5.
Recirculation noise.	60db(A) at 9 liters per minute.

Technical Information and Requirements for Installation	
Surface materials.	Aluminum, plastic, and stainless steel.
Installation environment.	<p>Flow Loop's shower panel must not be installed in water (wet room Area 0), and is therefore not suitable for installation in bathtubs, spas, or pools.</p> <p>Flow Loop's shower panel may only be installed indoors and in a frost-free room.</p>
Electricity, connection.	<p>Power supply connects 180-264VAC - socket with earth connection is not required. Connected outside Area 0 and 1 for wet rooms.</p> <p>A 24VDC/10A cable is drawn between the power supply and the shower panel. The internal voltage of the Flow Loop shower panel is 24VDC.</p> <p>A separate circuit breaker is recommended, but not required.</p> <p>It must be possible to connect and disconnect the power to the shower panel at any time, e.g. in connection with service and repair.</p>
Energy consumption.	<p>Standby: 1,4 watts.</p> <p>In use: 166 watts.</p>
Water, connection thread size.	¾" cold and hot.
Water pressure, recommended.	3-10 bar (300.000-1.000.000 Pa).
Water pressure, limit values.	Minimum 0,5 bar/Maximum 10 bar (Min. 50.000 Pa/Max. 1.000.000 Pa).
Water flow, recommended.	Cold and hot supply should each be able to supply 8-12 liters/minute.
Supply temperature – cold water, recommended. – hot water, minimum – hot water recommended	<p>Maximum 15°C.</p> <p>Minimum 50°C.</p> <p>55°C.</p>
Water consumption, recirculation.	Approx. 2 liters/minute.

Requirements for the floor in the shower cabin.	It must be possible to build up a 2-6 mm water level at the shower panel's suction inlet, immediately below the shower panel, which is why a slope of 1-3% is recommended.
Supported drain types.	Point drain with triangular, square, or circular grates as well as linear drains (special Flow Loop drain included).
Requirements for drain in the shower cabin.	Flow Loop requires individual drains for each shower. There must be no confluence of water between several shower cabins, as this will prevent control of the recirculation function.
Assembly.	Mounted on a vertical flat wall. Brackets are attached with 4 pcs. 5 mm screws with round heads.
Weight.	Dry weight: 38 kg. Wet weight (in use): 46 kg.
Installation time.	2 hours. Can be installed by 1 person.
Dimensions, shower panel.	W: 45 cm x H: 220 cm x D: 13 cm. NB: Allow at least 10cm of free space above the top and to both sides to enable installation and to ensure access for cleaning around the panel.

Usage Data and Communication	
IoT/data processing and reporting.	<ul style="list-style-type: none"> • Number of showers • Time and duration per shower • Recirculation time – displayed as a percentage of total shower time.
Network connection.	NB/IoT, yes (built-in SIM card included). Wi-Fi, no. Ethernet, no.