SEPAMAT Favorit-SC

- **SMT-F41-SC-A**
- **SMT-F55-SC**
- **SMT-F70-SC**
- **Appendix: Duplex application**

Installation and operating instructions

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Table of contents

1. Scope of application and mode of operation

Congratulations on purchasing your **SEPAMAT Favorit-SC** (hereinafter referred to as ***SMT-Fxx-SC***).

The *SMT-FXX-SC* is designed as a system separation station for use in single-family homes, apartment buildings, commercial and industrial applications.

The DVGW-certified, fully automatic, and ready-to-connect system separation station complies with DIN EN 1717 for the separation of drinking water and category 5 liquids.

The integrated pump delivers water from a separation storage tank to consumers as required. The water level in the separation storage tank is regulated by a float valve. The drinking water network and an emergency overflow are connected to the separation storage tank.

The area of application can be expanded by connecting two *SMT-FXX-SC units of the same type* in parallel. The system control of the devices used then communicates via a data cable connection (for further information, see appendix).

Functionality and area of application:

The centrifugal pump is speed-controlled via the integrated control system according to the set pressure level. Pressure monitoring is carried out by an integrated analog pressure sensor, which is monitored by the pump control system. Flow monitoring (dry-running protection) is also carried out by the control system, as is temperature monitoring. All operating parameters, such as run-on time, no-load and load current range, and response time for dry running, are specified by the pump control system.

Overview of functions:

Variable frequency, constant pressure	The motor speed follows the water consumption and attempts to maintain the set working pressure.
Overvoltage protection	The pump switches off in the event of overvoltage.
Blockage protection	If the pump becomes blocked, it switches off to protect the motor.
Motor temperature protection	If the motor temperature exceeds 103°C, the pump switches off.
Temperature shutdown if the water temperature is too high	If the water temperature in the pump pot reaches 73°C, the pump automatically switches to standby. When the temperature drops, the pump switches back on automatically.
Leak detection	In the event of minor leaks or dripping consumers, the leakage indicator lights up to inform the user. This has no effect on operation.
Dry-running protection	The pump detects when there is no more water flowing and switches off after a certain period of time.

2. Safety instructions

Live components may only be installed by a licensed electrician. In the event of malfunctions of electrical devices, the product may only be put back into operation after it has been repaired by a licensed electrician. There is a risk of electric shock!

The power outlet circuit used for the device must be protected by a circuit breaker (16 A in many countries). An RCD with a maximum response current of 30 mA must also be installed upstream if not already present.

Before installing the product, read these installation and operating instructions carefully. The instructions provided must be followed exactly. Modifications to the product are not permitted, as this will void any warranty claims.

The following points must also be observed during installation and operation:

- Inspect the product for any visible defects before installation. If there are any defects, the product must not be installed. Damaged products can be dangerous.
- Installations on the drinking water supply network may only be carried out by an approved installation company.
- A floor drain must be provided near the installation site to collect any accidental water leaks (e.g., due to pump failure, pipe breakage, etc.) and prevent water damage to the building.
- The masonry behind a water-carrying system must be protected from water (e.g., with waterproof paint).
- Ensure that existing emergency overflows are connected and sufficiently dimensioned.
- Unplug the power cord if you are away for more than 24 hours.
- Shut off the drinking water pipe to the appliance if you are away for more than 24 hours.
- All products must be checked regularly to ensure they are in proper working order. The minimum inspection intervals are specified in the maintenance instructions.
- Electrical appliances can be dangerous for children. Therefore, keep children away from the product. Do not allow children to play with the product.
- Never install water-carrying products in locations where the temperature can fall below 0°C.
- Do not install electrical products in rooms at risk of flooding.
- The operator is responsible for compliance with safety and installation regulations.

3. Scope of delivery

Separation station Pump and replenishment center

- SMT-FXX-SC

Wall mounting material,

- mounting material, and operating instructions

Accessory A:

- Drinking water connection set

Accessory B:

- Pressure connection set

4. Technical data

	SMT-F41-SC-A	SMT-F55-SC	SMT-F70-SC
Dimensions (H x W x D):	595 x 550 x 265 mm	595 x 550 x 265 mm	595 x 550 x 265 mm
Weight:	24 kg	29 kg	29.5 kg
Mains voltage/frequency:	230 V / 50-60 Hz	230 V / 50-60 Hz	230 V / 50-60 Hz
Power consumption:	max. 0.37 kW	max. 0.55 kW	max. 0.75 kW
Current consumption:	max. 2.5 A	max. 3.5 A	max. 6.2 A
Insulation class:	F	B	B
Working pressure:	1.5–3.2 bar (adjustable)	2.0 - 4.5 bar (adjustable)	2.0 - 4.8 bar (adjustable)
Max. volume flow:	4.1 m³/h (68 l/min)	5.5 m³/h (90 l/min)	7.0 m³/h (116 l/min)
Sound pressure:	< 52 dB(A)	< 54 dB(A)	< 58 dB(A)
Protection class:	IP54	IP54	IP54
Drinking water inlet pressure:	2.5 - 6 bar	2.5 - 6 bar	2.5 - 6 bar
Max. height of highest consumer:	8 m	15 m	20 m
Ambient temperature	< 40°C	< 40°C	< 40°C
Water temperature:	< 60°C	< 60°C	< 60°C

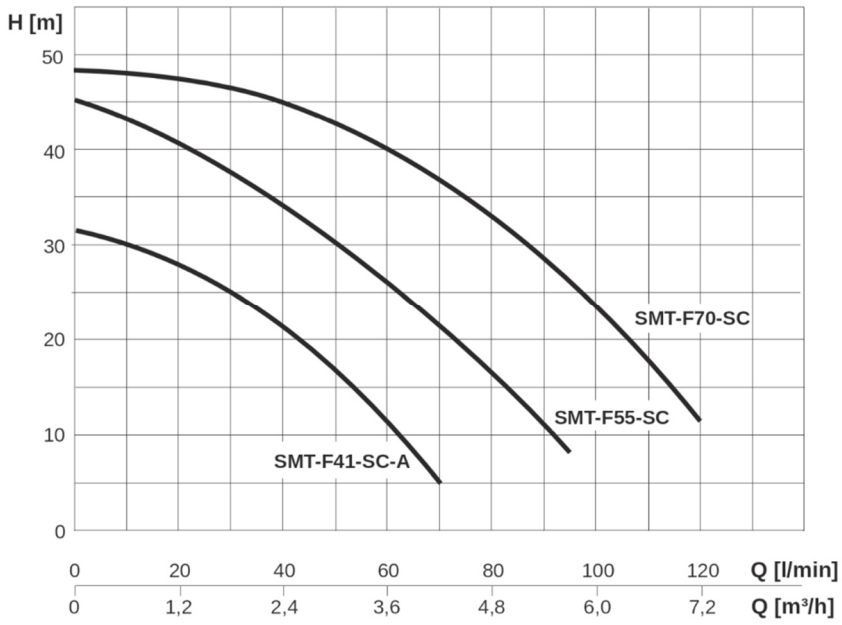
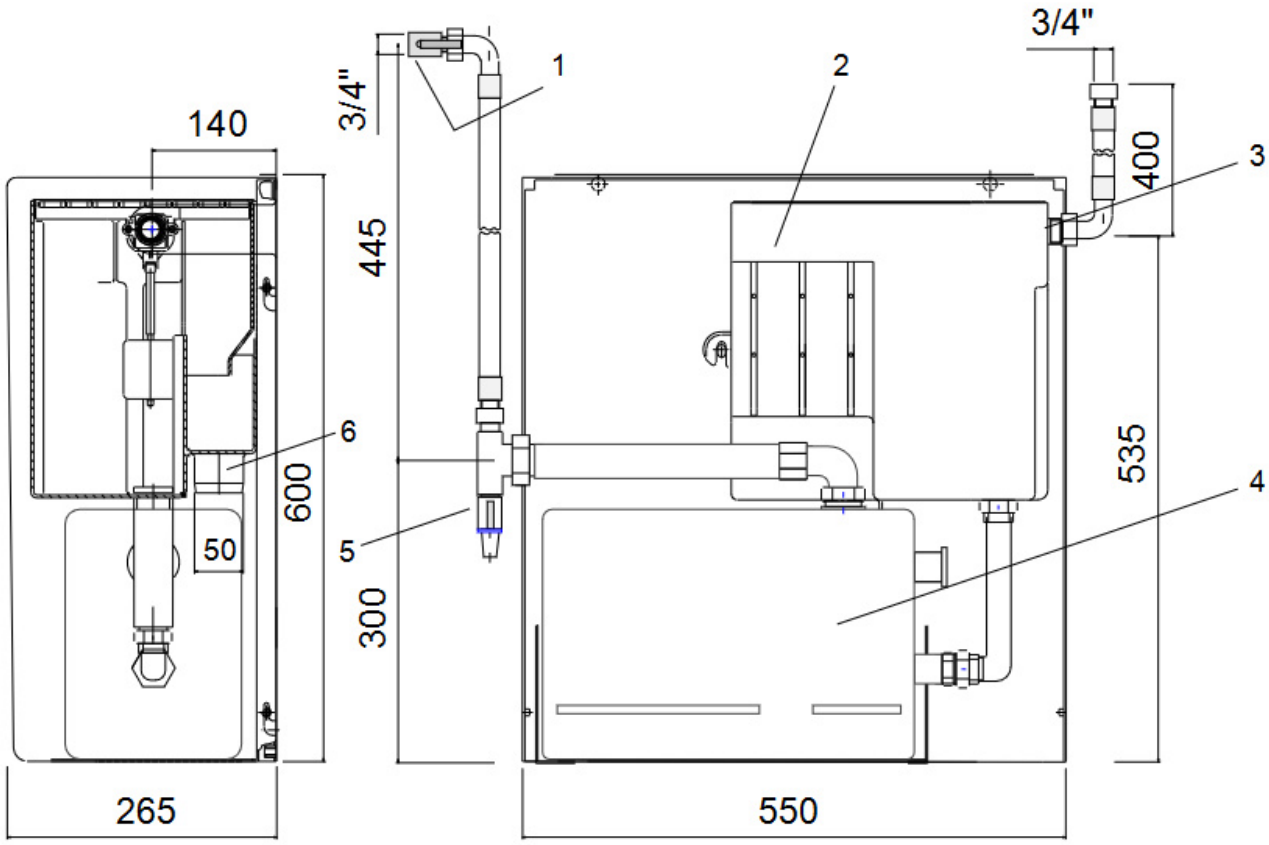


Fig.: Pump characteristic curve

4.1 Device overview and dimensions



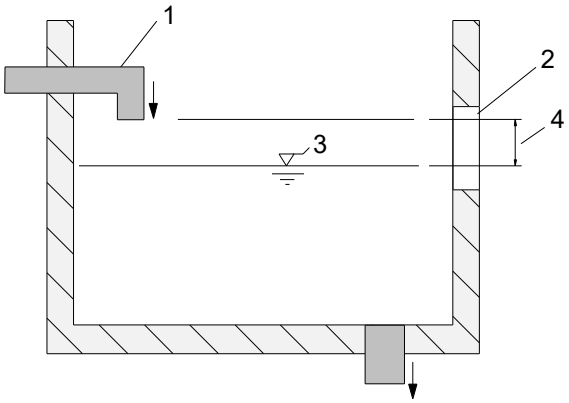
1. Pressure shut-off valve (1" female thread)
2. Feed tank
3. Drinking water make-up valve
4. Centrifugal pump NUVOS 41N / 55S / 70S
5. Vent valve
6. Emergency overflow connection (DN50)

Fig.: Dimensions and assembly overview

4.2 Standards, guidelines, tests

4.2.1 Certifications for Category 5 shut-off devices

The *SMT-Fxx-SC* complies with the standard for rainwater harvesting systems DIN 1989-4 "Components for control and replenishment." The DVGW test mark confirms the necessary "free inflow" in accordance with DIN EN1717 for safe separation of service water from the drinking water connection, which is integrated in *the RM-Fxx–SC*.



1. Drinking water inlet Make-up tank
2. Overflow opening of the make-up tank
3. Maximum possible water level (in case of malfunction)
4. Air gap between inlet and max. possible water level = safe separation of drinking water and service water

Drinking water make-up device, type AB in accordance with DIN EN 1717

Certification of separation device according to EN 1717, safety category 5 for: ○ Germany ○ Belgium ○ Netherlands ○ Switzerland	DVGW CERT Anschlusssicher W 540 · BELGAQUA · SVGW SSIGE · kiwa certified BRL-K14011
Certification of dessert valve for: ○ England	WRAS Water Regulations Advisory Scheme

4.2.2 EU Declaration of Conformity

1 EU Konformitätserklärung
EU- Declaration of Conformity

de/en

2 Diese EU-Konformitätserklärung wurde in alleiniger Verantwortung von INTEWA GMBH ausgestellt.
This declaration of conformity is issued under the sole responsibility of INTEWA GmbH.

3 Dokument-Nr.: **30/06/2025**
Document-No.:

4 Hersteller: INTEWA GmbH
Manufacturer:

5 Anschrift: Auf der Hüls 182
Address: D – 52068 Aachen

6 Produktbezeichnung: **7** Pumpenstation
Product designation: *pump station*

8 Typenbezeichnung: RM-Fxx-SC, SMT-Fxx-SC
Type: /

9 Der oben beschriebene Gegenstand der Erklärung erfüllt die einschlägigen Harmonisierungsrechtsvorschriften der Union:
The object of the declaration described above is in conformity with the relevant Union harmonization legislation:

10
2006/42/EU: **Maschinenrichtlinie**
2006/42/EU: *Directive Machinery*
2014/30/EU: **EMV Richtlinie**
2014/30/EU: *Directive relating to electromagnetic compatibility*

11
2011/65/EU: **RoHS-Richtlinie II**
2011/65/EU: *RoHs Directive II*

12
2015/863/EU **RoHS-Richtlinie III**
2015/863/EU *RoHS-Richtlinie III*

13 Angewandte harmonisierte Europäische Norm:
Applied harmonised European Standard:

EN60335-1:2012/A11:2014:2014/A13:2010/A15:2011, ENISO 12100:2010

EN 61000-6-3:2007/A1:2011, EN 61000-6-1: 2007, EN 61000-6-4: 2007/A1:2011
EN 61000-6-2: 2005, EN55014-1:2006/A2:2011

EN50581:2012

Weitere normative Dokumente
Other normative documents

EN 60335-2-41:2003/A2:2010

14 Ort, Datum: **Aachen, 30.06.2025**
Place, Date:

15 Rechtsverbindliche Unterschrift:
Legal signature:

16 Geschäftsführer Oliver Ringelstein
Manager

30/06/2025

5. Overview of assemblies

The *SMT-FXX-SC* has a modular design. Each assembly can be replaced individually.

5.1 Centrifugal pump assembly

① Suction connection with check valve
② Filling nozzle for expansion tank
③ Pressure connection
④ Display and keypad panel

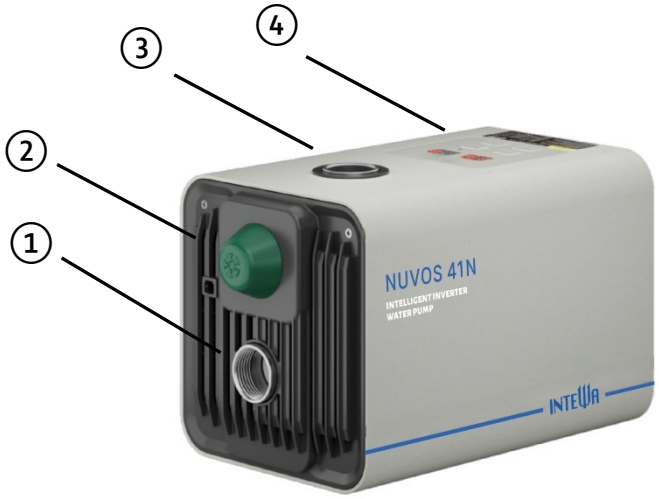
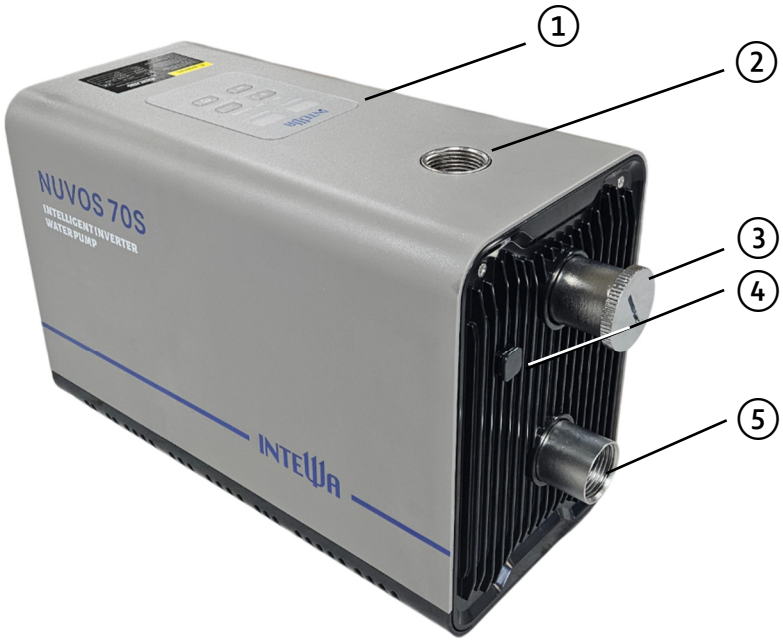


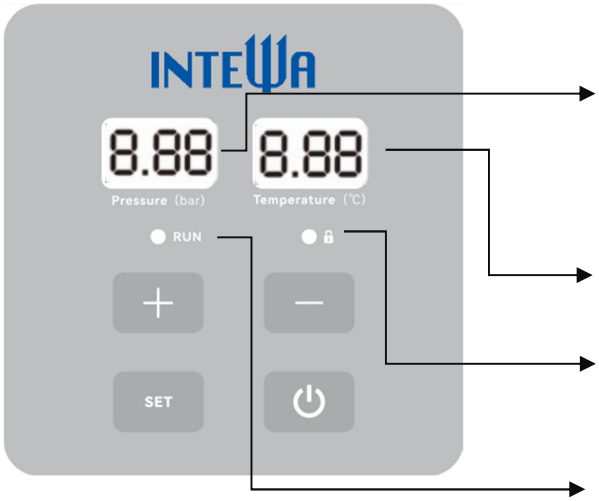
Fig.: Connections and display SMT-F41-SC



① Display and keypad
② Pressure connection
③ Pressure connection alternative (closed with plug)
④ Socket for signal cable in the DUPLEX application
⑤ Suction connection with check valve

Fig.: Connections and display SMT-F55/70-SC

5.1.1 Display and key functions



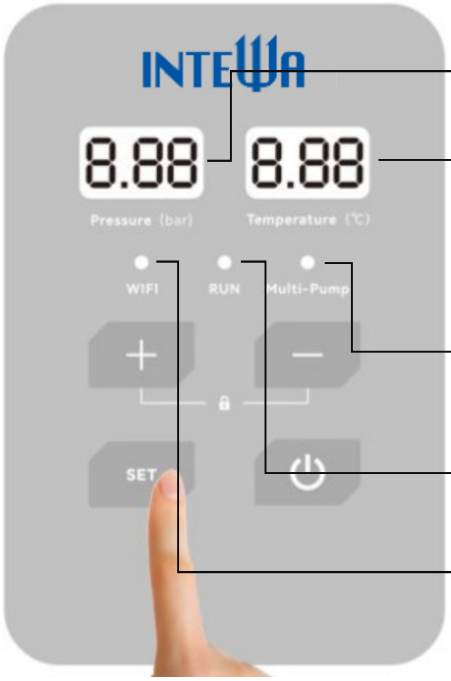
- Operating pressure
- Set pressure
- Operating mode (frequency)
- Parameters (B01+B17)
- Alarm
- Set values

Temperature

ON: Buttons locked
OFF: Buttons unlocked

ON: Pump running
OFF: Pump is OFF
Flashing: Pump is running to reach the set pressure

Fig.: SMT-F41-SC display



- Operating pressure
- Set pressure
- Operating mode (frequency)
- Parameters (b01+b17)
- Alarm
- Set values

Temperature

ON: DUPLEX function is active
OFF: DUPLEX function not active

ON: Pump running
OFF: Pump is OFF
Flashing: Pump is running to reach the set pressure

ON: WiFi connected (currently unavailable)
OFF: WiFi inactive

Fig.: Display SMT-F55/70-SC

KEY	FUNCTION
+ or −	**Display and set working pressure** Press the setting button + or − once to display the set working pressure value. Pressing + or − again increases or decreases the working pressure value by 0.1 bar. The pressure value flashes. Press the SET button to save the setting. This also happens automatically after 20 seconds without input.
+ + −	**Key lock** Press and hold the + and − buttons to lock/unlock the + , − , and SET buttons. The factory setting is "unlocked."
⏻	**Standby/Stop** The pump switches between standby (ON) and OFF when ⏻ is pressed. The pump starts automatically in standby (pump mode) when the pressure falls below the set switch-on pressure.
⏻ (3 sec.)	**Display mode ON/OFF** To enter display mode, press and hold the " ⏻ " button for 3 seconds. The pump will switch to display mode, in which the operating frequency is shown as Lxx (xx represents the operating frequency) in the left-hand number display. Pressing the ⏻ button for 3 seconds will exit display mode and return to the working pressure display. **Frequency setting** The frequency is set using the " + " or " − " buttons to increase or decrease the frequency by 1 Hz with each press (accompanied by a short beep). The " SET " button is used to save the setting or exit immediately. Automatically after 20 seconds without input.
SET	**Parameter menu** Press the SET button to open the parameter menu.

5.1.2 Parameter settings

Note: The standard factory settings [FS] of the pumps are optimal values that are suitable for most application conditions. It is generally not necessary to change the settings. If this is necessary, it should be done under the guidance of qualified personnel, as any damage that occurs otherwise is not covered by the warranty.

Setting the parameters:

Parameters are set using the " + " or " − " buttons.

Select the parameter to be set and save the setting value with the " SET " (.)button.

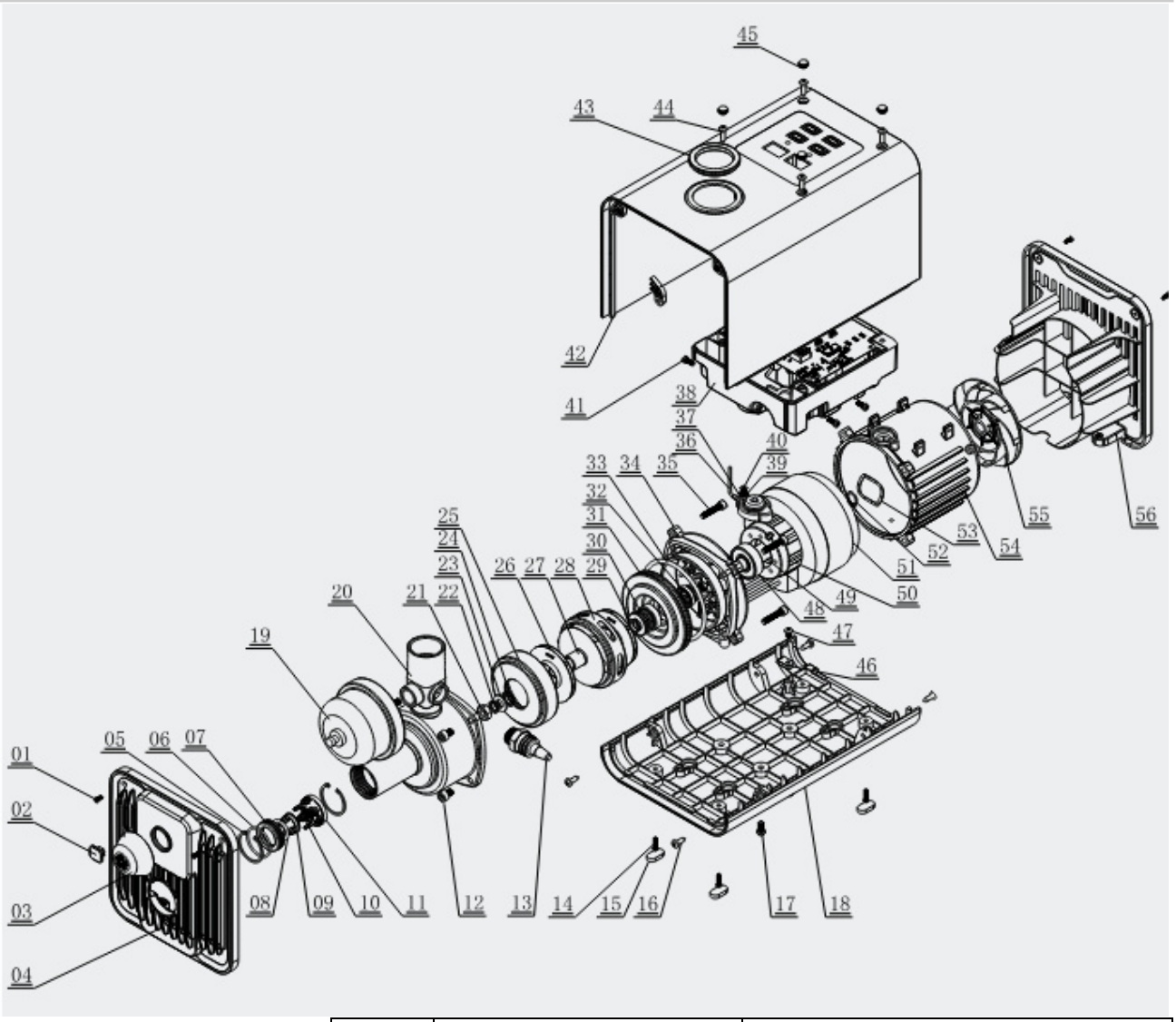
Note Factory setting [FS]: The value flashes on the screen during setup.

	Setting parameters B01 to B17: Navigation: SET Press and display "B01" > Set with + or − to change parameters Press SET to select the parameter and make the setting > Change the value with + or − . Press SET to save.
b01 [FS: 80]	[Range: 10-90%] Start-up pressure parameter: The pump starts automatically when the pressure drops to the set percentage of the working pressure. Navigation: Press " SET " > "B01" > " SET " > enter value [10~90%] > " SET " to save.
b02 [FS: 00]	[00: clockwise rotation; 01: counterclockwise rotation] Parameter Direction of rotation: The correct direction of rotation is clockwise when viewed from the side of the fan cover. The motor **must** be stopped for adjustment. Navigation: Press " SET " > "B02" > " SET " > set digit [00 or 01] > " SET " to save.
b03 [FS: 0.5]	[Range: 0 – switch-on pressure] Dry run protection parameter (pipe leak protection): If the working pressure falls below the preset value, the pump switches off. Navigation: Press " SET " > " + " or " − " > "[B03]" > " SET " > enter value [0-SP] > " SET " to save.

b04 FS: 180]	[Range: 10-180 seconds], Parameter Run-on time: Time required for the pump to stop when running dry. Navigation: Press " SET " > " + " or " − " > "[B04]" > " SET " > enter value [10-180] > " SET " to save.
b05 [FS: 00]	[00: Enable 01: Disable] Activate or deactivate the automatic protection function when the pump is running The pressure is subject to irregular fluctuations. Navigation: Press " SET " > " + " or " − " > "[B05]" > " SET " > enter value [00-01] > " SET " to save.
b06 [FS: 00]	[00: Display of working pressure (bar) 01: Real-time frequency (Hz) 02: Real-time power (kW)] Parameter display type: Set the parameters for real-time display. Navigation: Press " SET " > " + " or " − " > "[B06]" > " SET " > enter value [00-02] > " SET " to save.
b07 [FS: 30]	[Range: 10-50] Flow detection parameter: Reduce the value if the pump does not run or runs for a long time when the tap is closed. Increase the value if the pump stops during water consumption. Navigation: Press SET > + or − > [B07] > SET > Enter value [10-30] > SET to save.
b08 [FS: 0]	[Range: 0-2] Parameter for dual pump application: Set to 0 for single pump operation. Settings 1 and 2 for dual pump operation (setting 0 is not permitted in parallel operation!) Navigation: Press " SET " > " + " or " − " > "[B08]" > " SET " > enter value [0-2] > " SET " to save.
B09-B13	Not active
b14 [FS: 01]	[00: Enable 01: Disable Enable or disable the freeze protection function. This function prevents damage to the pump in low-temperature or freezing environments. Navigation: Press " SET " > " + " or " − " > "[B14]" > " SET " > Enter value ["00" or "01"] > " SET " to save.

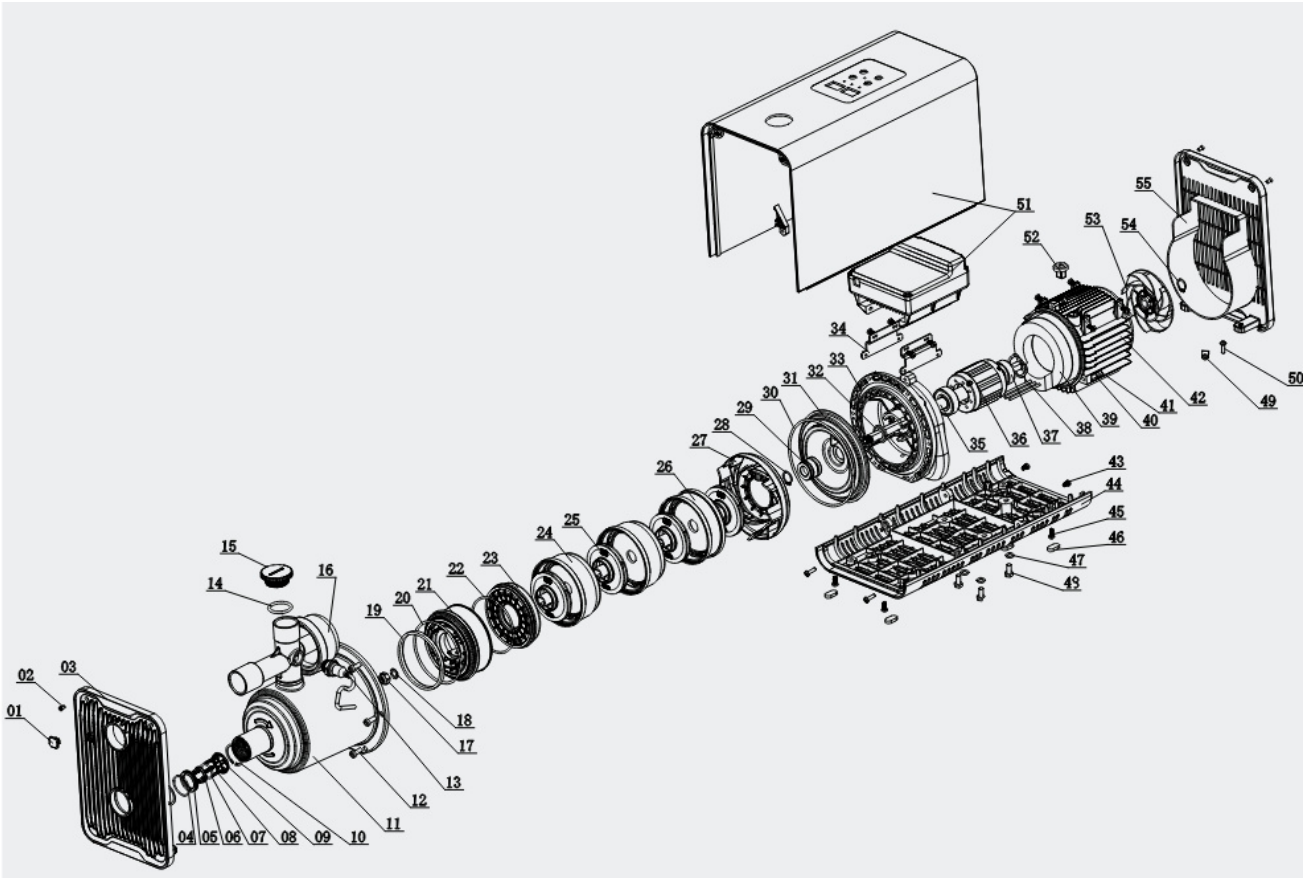
b15 [FS: 5°C]	[Range: -10°C ~ +10°C] To set the start temperature for frost protection. The pump switches on automatically when the water temperature in the pump housing drops to this value to prevent the water from freezing and damaging the pump housing. Only works if B14 is activated ("00"). Navigation: Press " SET " > " + " or " − " > "[B15]" > " SET " > Enter value [-10°C ~ +10°C] > " SET " to save.
b16 [FS: +30°C]	[Range: +20°C ~ +40°C] Parameter for switching off frost protection: If the pump is started due to the activation of the frost protection, it is automatically stopped when the water temperature reaches the set value. Only works if B14 is activated ("00"). Navigation: Press " SET " > " + " or " − " > "[B16] > "< SET " > Enter value [20°C ~ 40°C] > " SET " to save.
b17 [FS: 75°C]	[Range: 40°C ~ 130°C] Parameter max. water temperature (overheating protection): If the water temperature rises above this value, the pump switches off to prevent damage. The pump starts automatically when the temperature drops by 2°C. Navigation: Press " SET " > " + " or " − " > "[B17]" > " SET " > Enter value [50°C ~ 110°C] > " SET " to save.

5.1.3 Exploded drawings



Item	Code	Designation
04-09	NV 41/55/70-NRV	Check valve incl. seals
13	NV 41/55/70/140-PS	Pressure sensor
16	NV 41/55/70/140-ADG	Pressure tank
19-21	NV 41/55/70-LA	Air separator with seal
22	NV 41/55/70-LEIT-A	Guide wheel cover with O-ring
24	NV 41/55/70-LEIT	Guide wheel
25	NV 41/55/70-LAUF	Impeller
26	NV 41/55/70-S-GUIDE	Start guide wheel
27	NV 41/55/70-A-LEIT	Output guide wheel
29-30	NV 41/55/70-GLD	Plain bearing seal
37	NV 41/55/70-KL	Ball bearing
51	NV 41/55/70-CON01	Pump controller

Fig./Tab.: Exploded view and spare parts list for SMT-F41-A-SC



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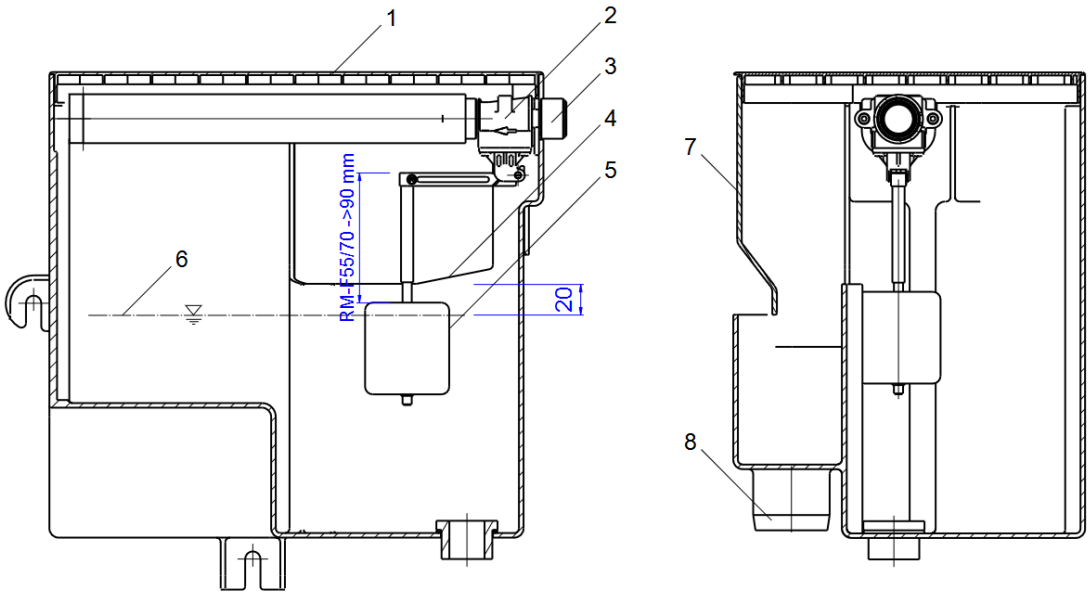
25	NV 41/55/70-LAUF	Impeller
26	NV 41/55/70-S-LEAD	Start guide wheel
27	NV 41/55/70-A-LEIT	Output guide wheel
29-30	NV 41/55/70-GLD	Plain bearing seal
37	NV 41/55/70-KL	Ball bearing
51	NV 41/55/70-CON01	Pump controller

Fig./Tab.: Exploded view and spare parts list for SMT-F55/70-SC

5.2 Refill device assembly

The float valve keeps the water level in the make-up tank constant at all times. When the float valve closes, the maximum water level must be approx. 2-3 cm below the emergency overflow edge (4) (rear of the tank). The correct distance between the float (5) and the top edge of the lever is set at the factory to 90 mm for the RM-F55/70 valve.
Note: If overflow occurs due to constant dripping from the valve, the valve must be descaled (see Maintenance). There is a protective screen (3) at the end of the float valve that can be pulled out for cleaning. There is also a screen in the inlet pipe.



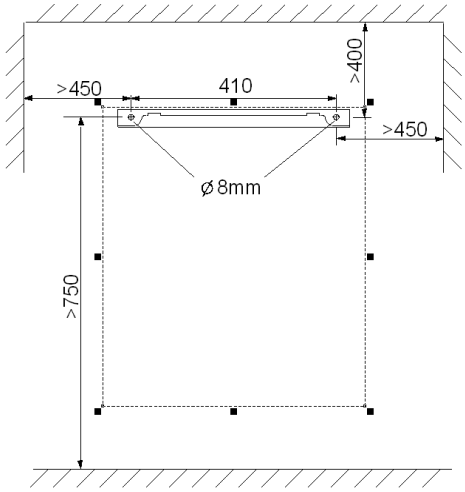
1. Feed tank with lid
2. Float valve with inlet pipe
3. Protective screen in valve inlet
4. Emergency overflow edge
5. Buoyancy body
6. Maximum water level
7. Splash guard
8. Emergency overflow DN50

Fig.: Replenishment device Exploded view and spare parts list

6. Installation instructions

6.1 Wall mounting

The *SMT-FXX-SC* is mounted on a wall using the wall bracket provided. The minimum distances from the ceiling and sides must be observed for installation and maintenance purposes.



The SMT-FXX-SC is hooked into the wall bracket so that the protruding ends of the mounting bracket engage in the corresponding grooves on the rear panel of the housing.

The rubber buffers supplied are screwed into the lower corners of the metal rear panel on the back.
The rubber buffers allow the device to rest against the wall. Unevenness in the wall can be compensated for by varying the depth to which the buffers are screwed in.

The transport lock must be removed.

6.2 Connection to the drinking water pipe

The connection to the drinking water pipe is made using the flexible hose with shut-off valve supplied.

The union nut is connected to the tank connection.

Note:
The flexible hose must not be installed under tension.
All enclosed flexible hoses have union fittings with flat seals. The rubber seals must be used. Additional sealing material must not be used on the union nut!

6.3 Installation of the pressure connection set

The pressure connection set (see scope of delivery) establishes the connection between the pump and the pressure line system.

The enclosed pressure connection unit is connected using the flat-sealing union nut.

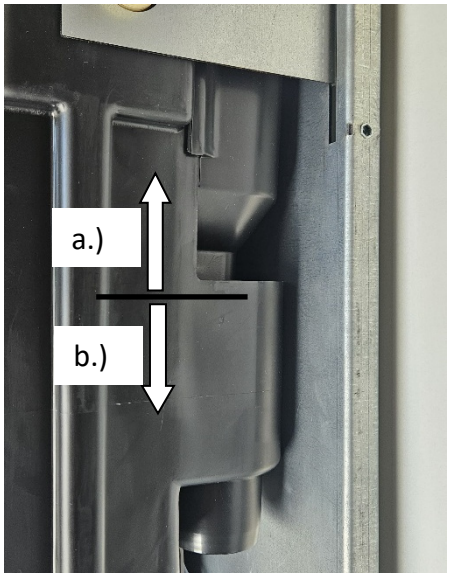
The pressure shut-off valve and the flexible hose are connected to the pressure system.

6.4 Connecting the emergency overflow

The *SMT-FXX-SC* is connected to the building's drainage system via a DN 50 emergency overflow connection. The drainage system must be designed for a maximum flow rate of 120 l/min.

Note:

When connecting to the drainage system, the position of the backflow level must be taken into account in order to prevent backflow of sewer water into the open funnel connection (design in accordance with DIN EN 1717) on *the SMT-FXX-SC*.



The position of the backflow level determines the type of drainage device.

a) Backflow level above the emergency overflow funnel of the replenishment tank:

   The emergency overflow must be connected to a lifting system.

b) Backflow level below the emergency overflow funnel of the make-up tank:

   The emergency overflow must be connected to a ventilated sewer connection pipe with a siphon.

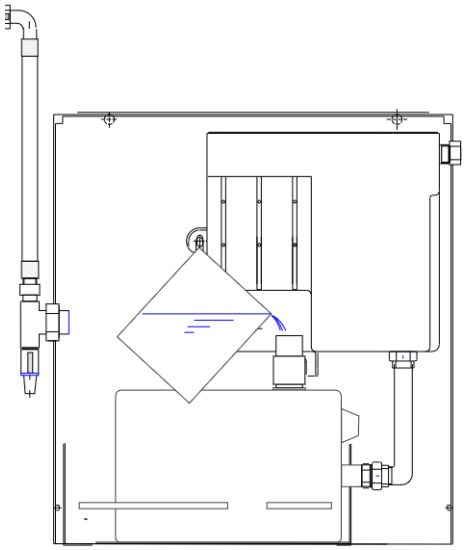
7. Commissioning and operation

1. Open the shut-off valve for the drinking water pipe so that the make-up tank fills with water.

2a. Procedure for SMT-F41-A-SC

Fill the pump manually with 1 liter of water via the pump's pressure connection.

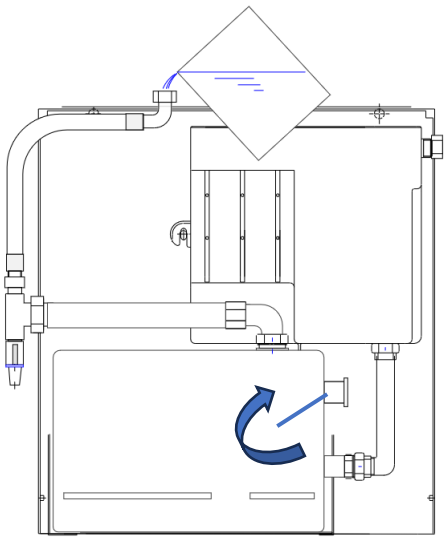
<u>Caution:</u>
The pump must not run dry!



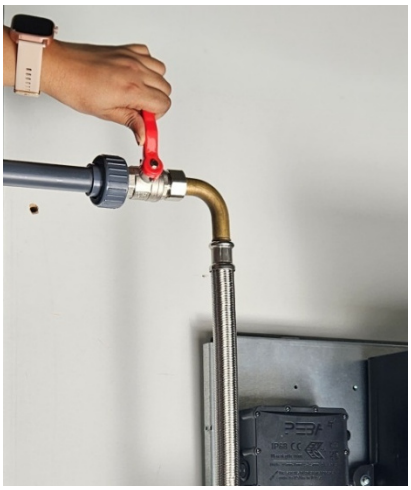
2b. Procedure for SMT-F55/70-SC

Manually fill the pump with 1 liter of water via the pressure-side flexible hose. To allow air to escape, it is essential to loosen the plug on the alternative pressure connection by two turns. A small amount of water may escape during this process. Please place a cloth underneath.

<u>Caution:</u>
The pump must not run dry!



3. Connect the flexible hose to the pressure system and close the pressure shut-off valve.



4. Open the vent valve.

   Hold a bucket of water under the vent valve and start the pump by plugging in the power cord.

   Allow water to run into a water bucket via the vent valve until the pump delivers water from the drinking water tank.

5. Close the vent tap.

6. Open the pressure shut-off valve and vent the pipe to the consumers (e.g., flush the toilet several times and open the garden tap).

7. Close the consumers.

   The pump is automatically switched off via the pump control when the maximum system pressure is reached.

8. Self-help in the event of a malfunction

8.1 Error without error code

Symptom/problem	Cause	Remedy
The pump does not start	The line pressure is higher than the pump's switch-on pressure.	Increase the working pressure or reduce the line pressure by opening a consumer.
	B01 parameter value too low	Increase the B01 parameter value
The pump does not stop	Pressure sensor defective	Replace the pressure sensor.
	Leak in the pipe or leaky, dripping consumer	Check the pipes and fittings
	Working pressure value is too high	Reduce the working pressure value
	Reverse direction of rotation of the motor	Set the direction of rotation of the motor using B02.
	Dry-running protection not activated	Set parameters B3 / B5 to activate dry-running protection
	Water consumption by the consum…er too low/dripping (<1 l/min)	Check consumer
	Suction line is leaking or cartridge fine filter is installed in the suction line	Check suction line or remove the cartridge fine filter
The pump is running but not delivering water	Reverse direction of rotation of the motor	Adjust the direction of rotation of the motor using B02.
	Line blocked or check valve cannot open	Check the pipe and the free movement of the check valve.
	Air in the suction line	Wait for the pump to remove the air

Symptom/problem	Cause	Remedy
Water shortage Warning (P01)	Severe fluctuations in water pressure lead to the controller misjudging the water shortage	Change the value of B05 to 01
	Excessive flow leads to low pressure in the pump housing	Reduce the parameter of B03 or add a throttle valve.
	The diameter of the outlet is too large (insufficient pressure drop)	Change the outlet diameter or add a throttle valve
	Water shortage	Wait for the pump to expel the air
Pump pressure only reaches half of the maximum pump pressure	Air separator or guide wheels defective	Replace air separator or guide wheels
In drinking water operation: Volume flow too low or pump does not pump any water at all	Too little or no water in the drinking water tank	Check the drinking water inlet pressure, clean the filter screen at the inlet to the make-up valve (see section 5.2).

8.2 Error with error code in the display

Error code	Cause	Remedy
E01	[Undervoltage] Input voltage lower than 130V (±10%)	1. Once the voltage rises to 180V, the pump will automatically restart. 2. Install a voltage stabilizer.
E02	[Overvoltage] Input voltage higher than 280V	1. As soon as the voltage drops to 260V, the pump will automatically restart. 2. Install a voltage stabilizer.
E03	[Pressure sensor error]	1. Turn off the device. Check the signal cable to the pressure sensor for a good connection. 2. Check the connection terminal in the controller and ensure that good connectivity. 3. Install a new signal cable if necessary. 4. Replace the pressure sensor if necessary.
E04	[IPM controller temperature too high]	1. When the IPM controller temperature drops below 80°C, the pump will return to normal operation. 2. Install the pump in a cool, ventilated location.
E05	[Overload protection for pumps]	Check the operating status of the pump.
E06	[IPM controller error on temperature sensor]	1. Move the controller to a well-cooled location 2. Check the sensor
E07	[IP conflict in the pump unit]	Check parameter B08 and replace the repeat value.
E08	[Missing phase/overcurrent] 1. Rotor or impeller blocked due to defect, rust, or contamination in the pump pot. 2. Poor connection between motor and control 3. Water in the motor / motor defective.	1. Replace the impeller or clean the hydraulics 2. Check or replace the cable between the motor and controller 3. Replace the motor
E09	[IPM current monitoring] Current too high	1. Check and fix the reason for the motor overload. 2. External environmental interference
E10	[Startup error]	Repeat start-up process

E11	Error connecting the pump unit	1. Check the connection to correct the error. 2. Replace the connection cable.
E13	Communication error	1. Replace the pressure sensor 2. Change the controller.
ERR	[Pressure transducer malfunction]	1. Check and replace the wiring. 2. Replace the transmitter.
P01	[Water shortage warning] 1. The operating pressure of the pump fluctuates irregularly. 2. Pressure lower than setting b03. 3. The outlet is too large to maintain pressure. 4. Water shortage.	1. Set the parameter of b05 to 01. 2. Reduce the setting value for b03 or limit the outlet flow. 3. Replace pipes with small diameters or add throttle valves. 4. Wait for the water supply to be restored.

9. Maintenance

A visual and functional inspection must be carried out every 3 months.

If the make-up valve drips until the emergency overflow is activated, it must be descaled. To do this, remove the entire valve from the tank and place it in a commercially available descaling solution (citric acid) so that the inlet and outlet are covered with solution. Move the float arm several times in between so that the descaling solution also reaches the membrane chamber of the valve (acting time 24 hours). If this does not stop the dripping, the valve must be replaced.

Note:
The internal pressure vessel in the SMT-F55/70-SC does not require maintenance, even if it loses its air preload over time. (When repairing the pump, if the housing is opened, it can be preloaded with 2.0 bar. Very rigid and short lines can cause control fluctuations and pump run-through. In this case, we recommend an external expansion vessel (e.g., INTEWA ADG-05).
The pressure vessel in the SMT-F41-SC can be preloaded to 2.0 bar at the side pressure valve. To do this, the system pressure must first be released.

10. Spare parts

Item description	Item no. (see section 4.1)	Item no.	Code
Multi-stage centrifugal pump for SMT-F14-SC	[1]	200009	NUVOS 14N
Multi-stage centrifugal pump for SMT-F55-SC	[1]	200012	NUVOS 55S
Multi-stage centrifugal pump for SMT-F70-SC	[1]	200013	NUVOS 70S
Feed tank	[7]	600420	RMF-B
Float valve for make-up tank	[9]	600161	RMF-NSP V1.8B
Spare parts for centrifugal pump			see Chapter 5.1.3

11. Warranty

INTEWA GmbH provides a statutory warranty of 24 months for this device, calculated from the date of purchase. Please retain your proof of purchase as evidence of this date.

Within the warranty period, INTEWA GmbH will, at its own discretion, provide warranty service in the form of factory repairs or replacement delivery.
Damage resulting from improper use, wear and tear, or interference by third parties is excluded from the warranty. The warranty does not cover defects that only insignificantly impair the value or usability of the device.

12. Contact / Device number

For customers in Germany:
If you have any questions, need to order spare parts, or require service, please contact INTEWA GmbH directly, quoting the device number and the purchase invoice.

INTEWA GmbH
Auf der Hüls 182
52068 Aachen
www.intewa.de

Tel.: 0049-241-96605-0
Fax: 0049-241-96605-10
E-Mail: info@intewa.de

For customers in other countries:
If you have any questions, need to order spare parts, or require service, please contact your dealer or the responsible general importer, who handles all service in the respective country, providing the device number and purchase invoice.

The device number with the serial number (SN) is located on *the SMT-FXX-SC* in the upper right corner of the device.

Appendix 1.0 Area of application and settings for the duplex version

For large properties where maximum supply reliability and convenience are essential, the speed-controlled *SMT-F55-SC* and SMT-F70-SC can be used in a redundant duplex version. Two system separators of the same type then run in parallel operation.

Fully automatic parallel control is carried out via the data cable. The automatic, alternating start-up of the pumps, the peak load switching, and the operating pressure setting are balanced and transmitted via this cable.
If one system fails, the slave and master functions are automatically transferred to the remaining system.

Attention:
The pumps must be adjusted with regard to parameter B08 via the parameter setting.

b08 [FS: 0]	[Range: 0-2] Parameter for dual pump operation: Set to 0 for single pump operation. Settings 1 and 2 are for dual pump operation (setting 0 is not permitted in parallel operation!). Navigation: Press " SET " > " + " or " − " > "[B08]" > " SET " > enter value [0-2] > " SET " to save.

Appendix 1.1 Parallel connection in duplex application

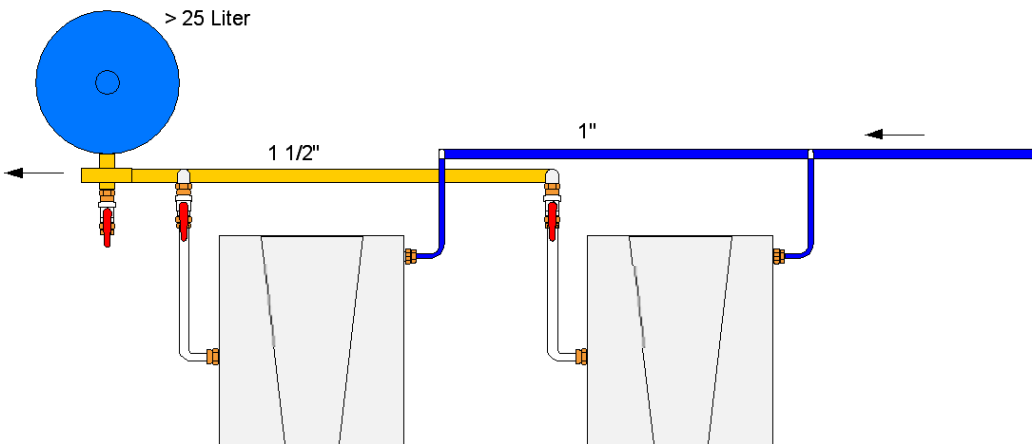


Fig. Drinking water and pressure connection in duplex application

Appendix 1.2 Pressure characteristic curve for duplex applications

The pressure pipe system must be dimensioned according to the maximum volume flow.

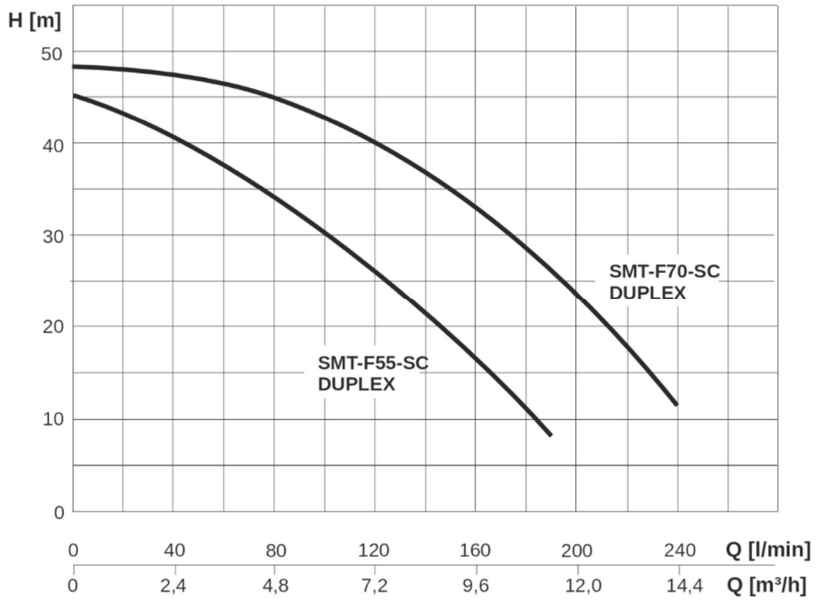


Diagram: Pressure characteristic curve for SMT-F55/70-SC Duplex

We recommend the following pipe cross-sections for the central piping:

	Pressure pipe	Drinking water pipe
SMT-F55/70-SC	1 ½"	1"