



Installation instructions FANN EkoTreat Max WiFi

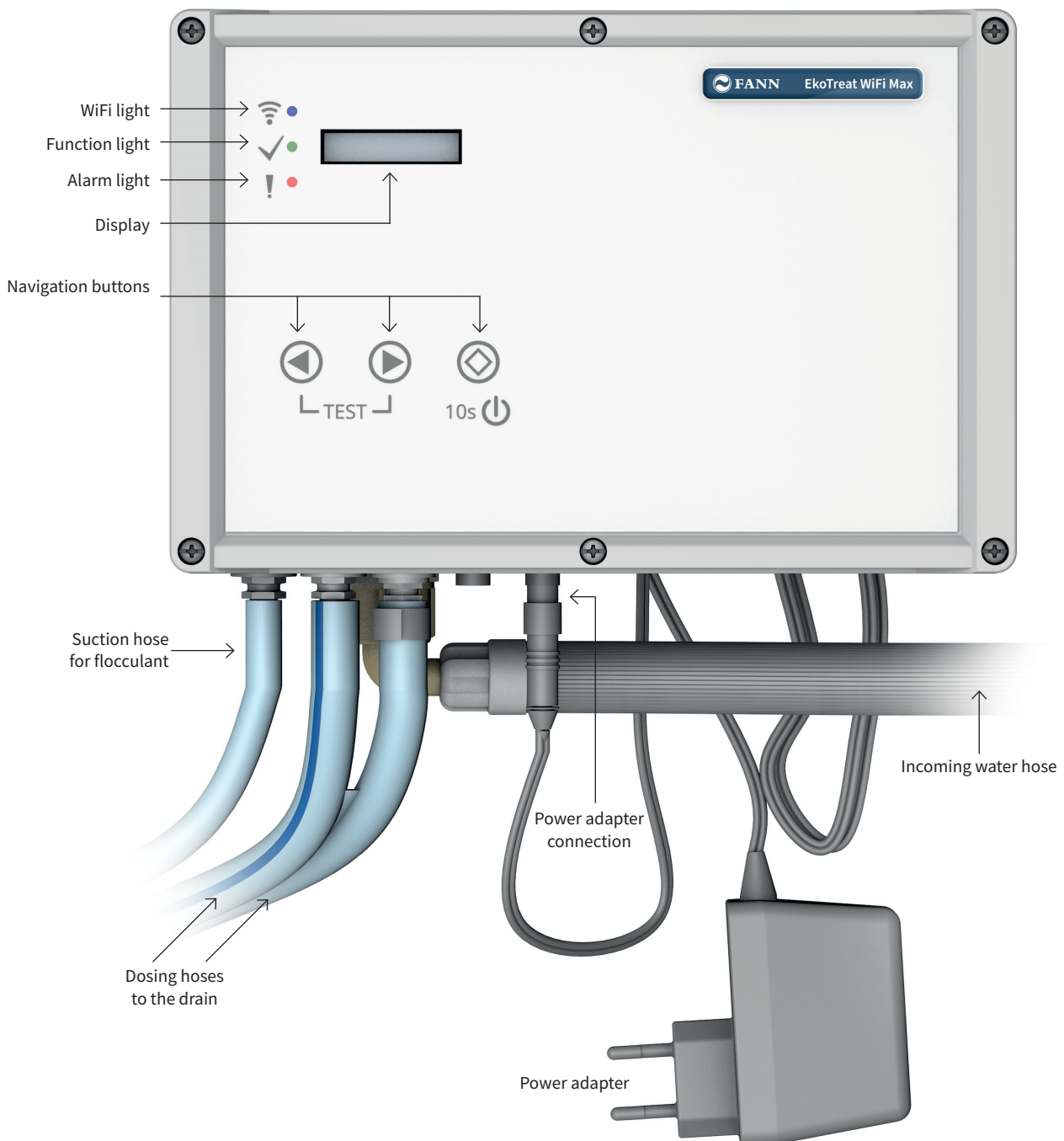


Function

The dosing unit dispenses flocculant to the drainage system. The unit automatically measures if there is flocculant remaining in the drum and notifies you once the drum is empty. Water and flocculant are discharged separately into the drainage pipe. The flocculant then binds both phosphorus and any particles, which produces cleaner water from the septic tank and extends the service life of the subsequent purification stage.

Before installation

- Check that no transport damage has occurred.
- Connect the power adapter.
- Hold your thumb over the inlet hole on the suction pipe, which will then sit inside the drum, and perform a test run on the unit by holding in ◀ and ▶ for 20 seconds.
- Note that you will hear a change in sound after a few seconds – you will now hear a clucking sound.
- Keep your thumb in place for 15- 20 seconds after the test has finished.
- After you remove your thumb, you should hear that the negative pressure is equalized.
- Contact FANN if you do not detect any negative pressure.



Technical description

At pre-set times of the day, the unit dispenses an amount of flocculant that corresponds to the number of people the unit is set to.

Dimensions of the Ekotreat WiFi

16 x 24 x 10 cm (HxBxD), weight 2.1 kg.

Water connection

½ inch internal thread.

Drain connection

32 mm plug for connection to drainage pipe. Internal 18 mm. Use the 32-50 mm coupling supplied if necessary.

Power adapter

INPUT: AC 100-240 V 50/60Hz 450 mA.

OUTPUT: 24 VDC 1000 mA.

The dosing unit enclosure is made of ABS plastic with an IP53 rating. Do not install the unit where it will be exposed to direct sunlight. Do not install the unit in areas with constantly elevated humidity levels. The temperature should be between +16 and +25°C

Dimensions of container for Ekotreat flocculant:

Height 64 cm, Width 34cm, Depth 40 cm. Volume 60 L.

Height 94 cm, Diameter 60 cm. Volume 200 L.

Installation

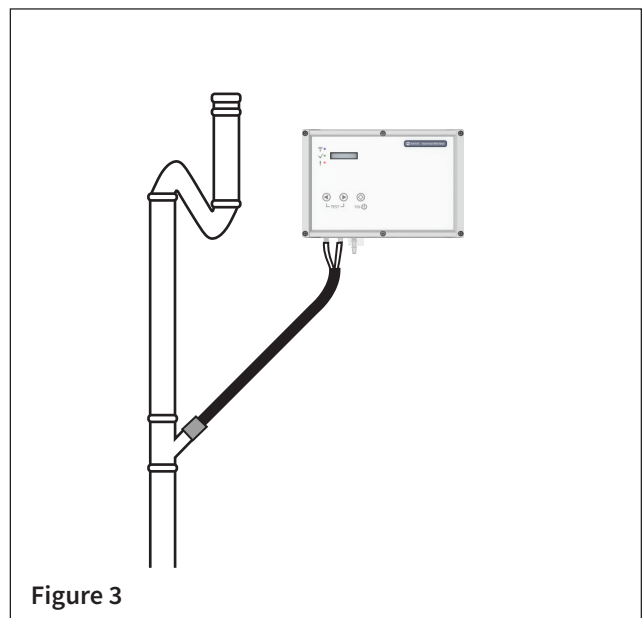
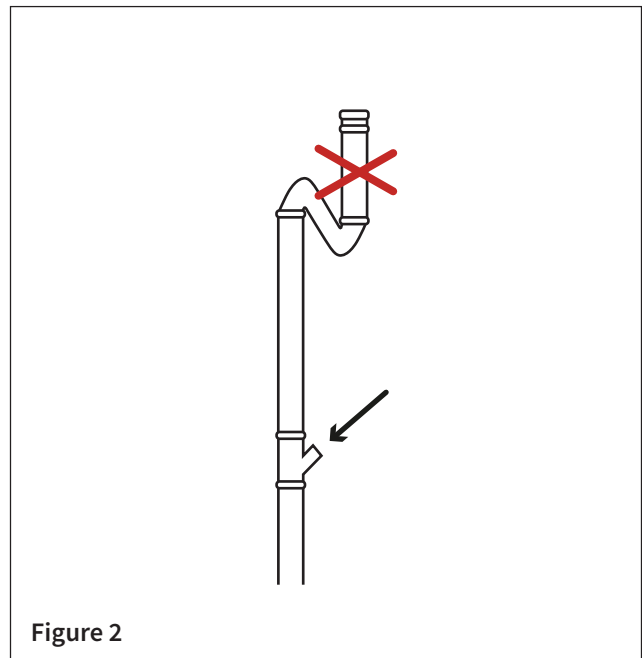
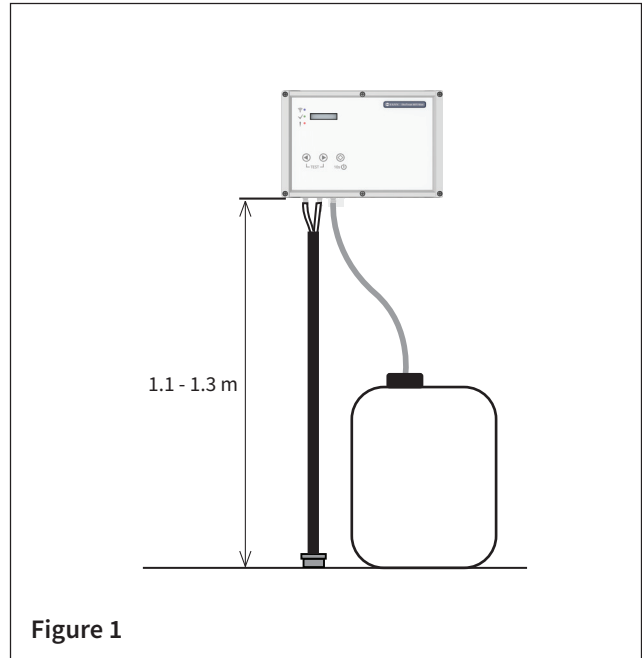
The unit should be installed by a qualified professional in accordance with applicable industry regulations in order to avoid any water damage. Installation that does not meet the requirements in terms of electrical or water connection requirements could lead to danger of death or water damage. Suitable connection points can be under the sink, in the laundry room or any other location within one metre of water, drainage and power points. A power socket, drainage connection and water connection point, such as a sanitary ball valve, should be within one metre of the flocculant unit.

The pressure from the water pipe must not exceed 8 bar.

Mount the unit on the wall with the connections downwards. The distance from the under edge of the unit to the bottom of the drum with flocculant should be 110-130 cm (see figure 1). Avoid using long bolts that could damage anything outside of the cabinet that the unit is mounted in.

Connect the mixer to the drainage system with a suitable connection. The external diameter of the mixer is 32 mm and fits couplings designed for 32 mm drainage pipes. A 32-50 mm coupling is included and can be used if required. You can install the mixer below the dosing unit or in line with the upper edge of the unit (see image 2).

You do not need to have gravity drainage from the unit to the mixer. The mixer must NOT be connected in above the water trap (see figure 3). The mixer must NOT be connected to the drainage pipe that runs to the floor drain.



Installation

- The drainage system must have gravity drainage from the point where the mixer is connected. The mixer is to be installed in such a way that NO flocculant or water remains in the mixer. Avoid sharp bends, edges and tapered joints at the mixer connection, as these can cause flocculant build-up and eventually clog the system. The hoses from the dosing unit to the mixer need to be installed in such a way that eliminates the risk of being squeezed, twisted or damaged. Only use straight runs that do not reduce the inside diameter. Use the couplings supplied.
- Connect the water supply hose to the water pipe with one of the two gaskets supplied. We recommend fitting a water shut-off valve to the incoming water supply after the sanitary ball valve. It is set to 20 L and will automatically shut down the flow if more water flows to the unit on any particular occasion.
- Fit either the loose cover with suction pipe for a 60 L drum or a 200 L drum to the hose from the unit.
- The hose with cover drum is bolted onto the drum of flocculant.
- Turn on the water and check that there are no leaks.
- The 24V AC/ DC adapter is connected to a power outlet and connected to the unit.
- Perform a function test by holding ◀ and ▶ pressed in at the same time. See section on changing the drum in “Maintenance instructions”. Check again for leaks.
- Set the time.
- Make sure that the correct time zone is set.
- Set the number of people in the household.

Standard settings

| | | |
|---------------------------|---------------------------|--------------------------|
| Set time: XX:XX | Time zone: Central | Sound: Auto |
| WiFi: On | People: 1 | Serial no: EXXXXX |
| Advanced mode: Off | Factory reset: No | |

Septic tank

Flocculant creates a larger volume of sludge than normal in association with the cleaning process. The table below shows the size of septic tank you need for the respective number of people when the septic tank is emptied once a year.

| Model septic tank | Volume septic tank | Max no. of PE with flocculant |
|--------------------------|---------------------------|--------------------------------------|
| SA 8000ce | 8 m ³ | 13 |
| SA 12000ce | 12 m ³ | 18 |
| SA 16000ce | 16 m ³ | 25 |
| SA 20000 | 20 m ³ | 40 |
| SA 24000 | 24 m ³ | 48 |
| SA 28000 | 28 m ³ | 52 |
| SA 32000 | 32 m ³ | 60 |
| SA 36000 | 36 m ³ | 68 |
| SA 40000 | 40 m ³ | 77 |
| SA 44000 | 44 m ³ | 87 |

Settings

Navigation between the different settings is made with ◀ and ▶.

To change a setting:

1. Hold in Ⓞ until you see a blinking light > and < appears in the display.
2. You can then change the setting with ◀ and ▶.
3. Release Ⓞ to save the setting and return to navigation.

Commissioning

Before the unit goes into service, the clock and number of people in the household need to be set.

Test

Keeping ◀ and ▶ pressed in at the same time, tests the water valve and pump.

Sleep

If the drain is not going to be used for a while, the unit can be put into sleep mode, when no dispensing will be done. You put the unit in sleep mode by pressing Ⓞ and holding it for 10 seconds until the display dims. The function light and alarm light blink during sleep mode. Any alarms will be reset. To start the unit, press and hold in Ⓞ for 3 seconds, the display will then be illuminated and the function light will stay permanently on.

People

To enter the number of people, go to PEOPLE by pressing ▶ and then press in Ⓞ and change the number of people with ▶. Release both buttons and wait 5 seconds until you hear a short pip that confirms the new setting.

Set the number of people in the household to ensure the correct dosage of flocculant.

Set Time and Time zone

To set the clock, go to SET TIME by pressing ▶ and holding it Ⓞ and ▶ until the correct time is shown in the display. Release both buttons and wait 5 seconds until you hear a short pip that confirms the new setting.

In the event of a brief power outage, the clock will continue to run, but if the unit has been powerless for a long period, the clock will need to be reset. If the unit is connected to the Internet, the time is set automatically for the time zone specified by the Time zone settings. If the unit is not connected to the Internet, you can set the clock manually using the Set time function. Set the Time Zone to Manual if you prefer to set the time manually when the unit is connected to the Internet.

WiFi connection

The unit has a WiFi connection for changing the setting and for viewing the status from a computer, phone or other internet connected device via www.fannconfig.se.

The unit automatically connects to the following WiFi networks:

1. The network that was entered via www.fannconfig.se
2. Open network without password
3. Network with password **fann12345** irrespective of name of network

The blue light will illuminate when the unit is connected to the Internet. Use the serial number and password supplied with your unit to log in to www.fannconfig.se

Factory reset

Use the Factory reset function to reset the unit to its default settings. Set the setting to Reset on start-up. Wait a few seconds until the setting is saved. The unit usually returns to displaying the time, but if the unit has sent an error code, an error message will appear instead. Disconnect the power to the unit and wait until the lights stop blinking. Turn on the power again, and the unit will now be reset to the default settings.

Advanced mode

Additional settings will be displayed if Advanced Mode is set to On. Advanced settings should only be used in consultation with FANN technical support. Once Advanced Mode is set to Off, all advanced settings return to default settings.

Alarm sensor

The unit has a flow sensor that automatically detects when the drum is empty. If the time has been changed, or if a test has been run immediately before a scheduled dosage, the sensor will not be read and an alarm warning you of an empty drum will not be sent, even if the drum is empty. When the flow sensor takes a reading, the BUSY text will appear on the display. You cannot change the settings during this time. In the event of an alarm from the flow sensor, the unit will continue to try to dispense water and flocculant as per usual.

Alarm reset

If the unit has an active alarm, this can be reset by holding in Ⓞ for 5 seconds until the display shows Warnings cleared, when you can release the button.

External LED

An external LED can be connected to provide a clearer light signal in the event of a fault. Only LEDs with product code 3984 from FANN should be used.

The unit uses encryption when communicating with www.fannconfig.se to prevent unauthorised access to data and passwords.



Warnings:

- The pressure from the water pipe must not exceed 8 bar
- Always check that all the connections have been tightened.

Maintenance instructions

General

Please note that the drum with flocculant is not part of the EkoTreat unit package. The drum is ordered separately.

For the unit and flocculant to work optimally, the temperature should be between +16 and +25° C. If the temperature falls below 16° C there is a risk that performance will be impaired.

Number of people should correspond to the number of people in the household. Please note that if the number of people in the household changes by more than 5%, the number of people on the unit should also be reset. The number of people is reset via the unit display and buttons.

The unit controls dispensing of flocculant, which occurs a number of times each day. If the household is unoccupied for longer than one week, no dispensing is required. This means you should shut down the system when you are away. This can be done in several ways, e.g., by placing the unit in sleep mode. See the sleep section under “Settings”. Do not forget to restart the unit when you return home.

If installed in a holiday home, the unit should be activated when the home is occupied, and switched off at all other times. Do not forget to start the unit again when you return to the home.

The unit has a built-in alarm that tells you when it is time to change the drum. We recommend always having an extra drum available. You can pour any flocculant remaining from the old can into the new can. In order for the entire system to function properly, it is necessary to replace the can containing flocculant when required, and to only use Ekotreat phosphorus flocculant. If the drum is not changed when necessary, the flocculant can solidify in the hose and impair performance. The unit consumes around 90 L of water per day under normal water pressure conditions.

Flocculant

In order for the unit to work, the drum with flocculant must be changed on a regular basis. Flocculant can be purchased directly from FANN VA-teknik AB at our website www.fann.se/ekotreat or by telephone. Flocculant can also be purchased via wholesalers and from other websites - always specify EkoTreat flocculant. The RSK number for EkoTreat flocculant is: 5619784 for 60 L and 5619785 for 200 L resp.



Only EkoTreat flocculant, developed for EkoTreat, should be used in the system. If you use any other type of flocculant, we cannot guarantee the performance of the entire system, and therefore FANN guarantees will be invalidated. The flocculant is corrosive and has a low pH value, i.e. it is acidic, and a skin irritant. Read the instructions on the container carefully. If there are young children in the family, the cabinet where the flocculant is stored should have a child proof lock. In the event of contact with eyes, rinse immediately with water and seek medical advice.

Replacement of drum

Unscrew the lid from the old drum and connect it to the new one. Perform a test by holding ◀ and ▶ in at the same time. Run the test until the flocculant enters the mixer where it connects to the drainage pipe. Check that the hoses are filled with flocculant.

Winter proofing

Provided that the unit is installed where there is no risk of minus temperatures, nothing needs to be done. If there is a risk of freezing, the unit must be purged of water. This can be done, for example, by loosening the incoming water hose and running the test program until both the incoming and outgoing water hose are drained of water.

Caring for the environment

Be careful what you flush down the drain. Solvents, paint residues, chlorine, oils, concentrated cleaning chemicals, etc., should not be disposed of in the drainage system. Many of these substances can neutralise the biological treatment process, which will cause problems with the subsequent soil bed or infiltration system. In addition, tampons, sanitary towels, and cotton swabs etc. must not be flushed down the drain.

Warranty

The two-year product warranty on the Ekotreat unit applies from date of delivery.

If the unit, together with other products from FANN VA-Teknik AB, constitute a complete turnkey system (flocculant unit, septic tank and biological stages, such as IN-DRÄN infiltration), the 10-year performance warranty provided by FANN VA-teknik AB applies, provided that flocculant from EkoTreat is purchased in accordance with the expected consumption rate. Spare parts are not included in the performance warranty.

Annual service

1. Make sure the unit is not cracked or damaged.
2. Make sure the time is set correctly.
3. Perform a test run of the water valve and the pump by holding ◀ and ▶ pressed in at the same time.
4. Check that the mixer is properly connected to the drain.
5. Check inside the mixer to ensure that no grey/yellow/white/black deposits have accumulated. Clean the hose if necessary.
6. Clean the incoming water filter.
7. Clean the mixer (water and flocculant).

Spare parts

| Designation | FANN Product code |
|-------------------|-------------------|
| Hose pump | 0138 |
| Power supply | 3818 |
| Ekotreat Max WiFi | 0109 |



Operating and maintenance log for FANN Ekotreat WiFi/FANN Ekotreat Max WiFi

The operations journal is to be used monthly or more often if necessary.

| | |
|-------------------|--------------|
| Installation date | Property |
| Installer | Municipality |

| Date | <i>The green light is on Replacement of flocculant Septic tank emptied Change of number of people Annual service Contact with FANN Other, note what</i> | | | | | | | Actions and comments | Signature |
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