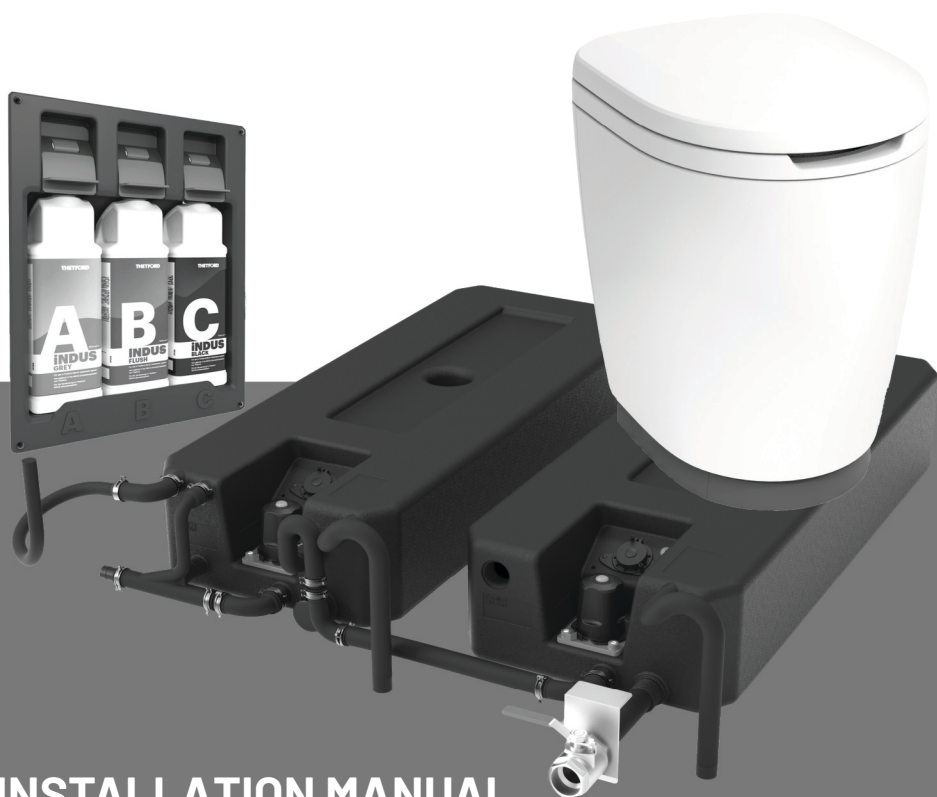


THETFORD



INSTALLATION MANUAL iNDUS trek Smart Sanitation System

iNDUSTM
smart sanitation system by Thetford *trek*

EN

Original Installation Manual

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1. Disclaimer

Important information

1. This appliance can be used by children below 3 years but require constant observation by an adult in the immediate proximity of the child. This appliance can be used by children aged from 3 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
2. Glowing cigarettes and other burning materials must not be thrown into the toilet.
3. This product must only be supplied with Safety Extra-Low Voltage (SELV), in accordance with the marking on the appliance.
4. The appliance can be disconnected from the power supply after installation. The disconnection may be achieved by incorporating a switch in the fixed wiring in accordance with the wiring rules.

2. Introduction

General

This is the installation manual for the Thetford iNDUS trek smart sanitation system. The manual is meant for qualified installers who will install the smart sanitation system in a mobile leisure vehicle. Read the information and instructions carefully and follow them strictly to install the smart sanitation system safely and correctly.

Also read the warnings in the user manual before testing the smart sanitation system after installation.

This document is version 210772/0926-V01 of the installation manual. Our policy is one of continuous development and improvement. Specifications and illustrations may change subsequent to publication.

Please visit www.thetford.com for the most recent version.

Symbols

The following symbols *may* be used in this manual:



Warning. Risk of serious injury and/or damage.



Caution. Risk of moderate injury and/or damage.



Attention. Important information.



Note. Additional information.



Video. Additional instruction video available.

3. Safety

General

The iNDUS trek system is an integrated domestic wastewater management system for leisure vehicles. It must not be used for any other purpose than the collection, storage and discharging of domestic wastewater produced by human habitation activities in the leisure vehicle.

Read the safety instructions described in this chapter before beginning installation.

Installation



Risk of serious injury through cutting, clamping, electrocution, skin burns, and eye irritations or damage to the product.

- All installation work must be carried out by an approved competent person.
- Do not modify this system and its components, unless the modification is authorised by the manufacturer.
- The installer is responsible for a correct installation of the connections (water hoses and electrical cables) between and to the INDUS trek modules.
- Use only original and Thetford approved parts and materials.
- Wear the appropriate Personal Protective Equipment during the installation.
- The system needs a frost-free environment (above 5°C), in order to function. The system will turn itself off when it is below 0°C to protect/avoid damage due to ice forming.
- If the INDUS trek is not installed in accordance with current law, regulations, rules and standards, this will void the warranty and may lead to criminal prosecution.

Electrical



Risk of serious injury through electrocution and burns or damage to the product.

- Always disconnect the system and its components from the power supply before starting work on the system.
- Route the electrical cables in such a way that they cannot chafe. Also use lead-through bushings or edge protection profiles where there are sharp edges such as metal panel lead-throughs. The electrical cable must not be attached to or come into contact with metal surfaces, exhaust ducts or warm air ducts.
- The electrical cables and plugs must not be subjected to force. Bundle the electrical cables and secure each one to housing using a cable tie in order to provide strain relief. All cables must be securely attached and must not become loose or disconnected due to vibration – risk of fire!
- If the supply cord is damaged, it must be replaced by the installer, its service agent or similar qualified persons in order to avoid a hazard.
- When positioning the module, ensure the supply cord is not trapped or damaged.
- Make sure the module can safely be connected to the power supply after installation.

Solar Panel (PV)



Risk of serious injury through electrocution, and burns or damage to the product.

- When a solar system is used, EN 1648 stipulates that a battery (with charge regulator) or a voltage regulator (output voltage 11 V – 15 V; alternating voltage ripple < 1.2 Vss) must be connected between the solar system and the iNDUS trek system at all times. Otherwise, the iNDUS trek electronics can be damaged by an irregular voltage supply from the solar system.
 - When disconnecting the battery, always disconnect the charge regulator from the battery first.
 - When connecting the battery, always connect the charge regulator to the battery last.
- Damage to iNDUS trek electronics caused by an irregular voltage supply from the solar system will void any warranty.

Toilet module



Risk of serious injury through cutting, and clamping or damage to the product.

- There is a serious injury risk when touching the sharp macerator knives located below the toilet bowl valve. The macerator is disabled when the bowl valve is open. Use extreme caution when removing obstructions out of the macerator house.
- Use appropriate protection equipment to avoid contact with the macerator.

Tank module



Risk of damage to the product.

- Make sure the Tank module is secured to prevent any movement.

Commissioning



Risk of health issues or damage to the product.

- Do not switch on the system without first carrying out the visual and functional checks.
- Damage caused by improper installation, will void any warranty..

Servicing



Risk of serious injury through cutting, clamping, electrocution, and burns or damage to the product.

- All servicing must be carried out by an approved competent person.
- Always disconnect the system and its components from the power supply before performing any service work.

4. Serviceability

The installer of Thetford products is responsible for correct installation according to the Thetford installation instructions to ensure the functionality and serviceability of the product.

In terms of serviceability, this means that a dealer or authorised Thetford service partner must be able to remove and re-install the Thetford product within the time that is allowed according to the Thetford time-list, using standard tools and equipment.

This is to claim any warranty during the warranty period after the purchase date.

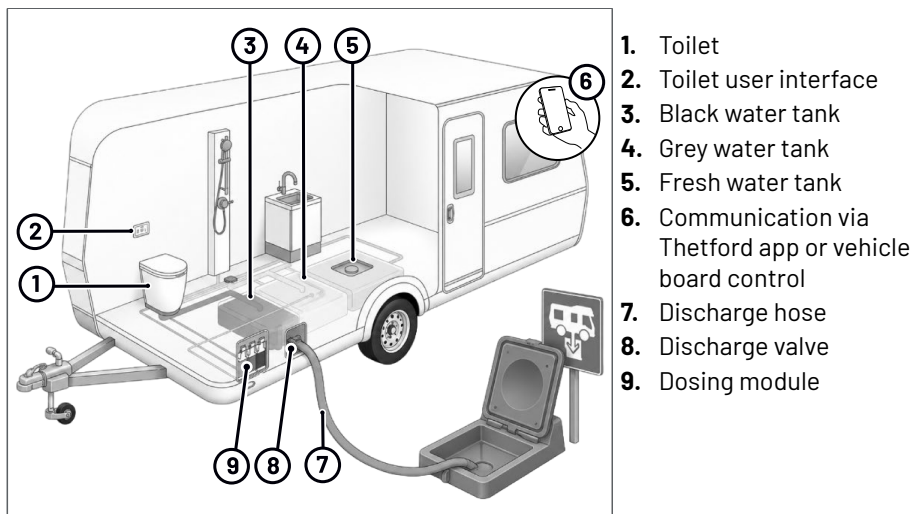
In case of any queries on this subject, a Thetford local service representative can be contacted for additional support related to the installation of the product.

5. Overview

The iNDUS trek system consists of the following components:



The picture is schematic. The location of the components depends on the layout of the vehicle.



System flow

The toilet is flushed with fresh water. The toilet wastewater goes to the black water tank. Additives from the corresponding three cartridges are added in the process. When the black or grey water tank is full, a notification will be visible in the Thetford app or a red LED on the toilet user interface will appear. The tanks can be emptied at a designated place with the aid of a discharge hose. Grey water is used to rinse the black water tank, the hoses, and the discharge hose.

6. Technical specifications

Toilet module

Table 1: Dimensions & weight

Model	e106-CS	e106-S
Main dimensions lid closed (HxWxD)	500 x 350 x 450 mm	500 x 350 x 415 mm
Main dimensions lid open (HxWxD)	860 x 350 x 450 mm	860 x 350 x 415 mm
Seat height	485 mm	485 mm
Weight	7.7 kg	7.5 kg
Toilet placement	Wall-mount	Free-standing
Control panel dimensions (HxWxD)	68 x 125 x 35 mm	

Table 2: Electrical specifications

Model	e106-CS & e106-S
Operating voltage	10–16 V DC
Minimum power connection at rated voltage	10 A
Wire gauge power cabling	4 mm ²
Wire gauge CI-bus cabling	1.5 - 2.5 mm ²
Fresh water pump maximum switching current	6 A
Wire gauge fresh water pump	1.5 - 2.5 mm ²

Tank module

Table 3: Dimensions & weight

	Black water / Grey water
Main dimensions (HxWxD)	220 x 490 x 1190 mm*
Normal volume waste tank	95 L
Overflow volume waste tank	105 L
Weight	10 kg each

* With hose pillars included, the total depth is 1230 mm

Table 4: Cables

Model	all models
Between toilet and tank PCB	700 cm
Between tank PCB and black water tank	250 cm
Between tank PCB and grey water tank	250 cm
Between toilet and user interface	270 cm
Between tank PCB and discharge user interface	270 cm
Optional waste tank cable extension	250 cm

Table 5: Hose connections

Model	Grey water tank
Grey water inlet	1.5" female; inner thread
Pump out pillar	32 mm
Manual drain	1.5" male; outer thread
Vent pillar	25 mm
Dosing module pillar	3 mm

Model	Black water tank
Black water inlet (toilet) pillar	25 mm
Grey water from pump pillar	32 mm
Black water pump out pillar	32 mm
Mix inlet pillar	25 mm
Manual drain	1.5" male; outer thread
Vent pillar	25 mm

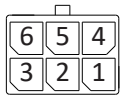
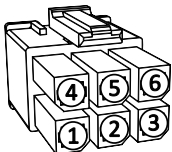
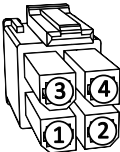
CI bus connection

- The D+ signal must be connected.
- The ground on the CI-bus connector should not be connected.
- Ensure that all components in the system are using the same power supply ground as the CI-bus master unit.



The ground on the CI-bus connector is only needed when using, for example, an external CI-bus service tool.

Layout of the DC power connectors

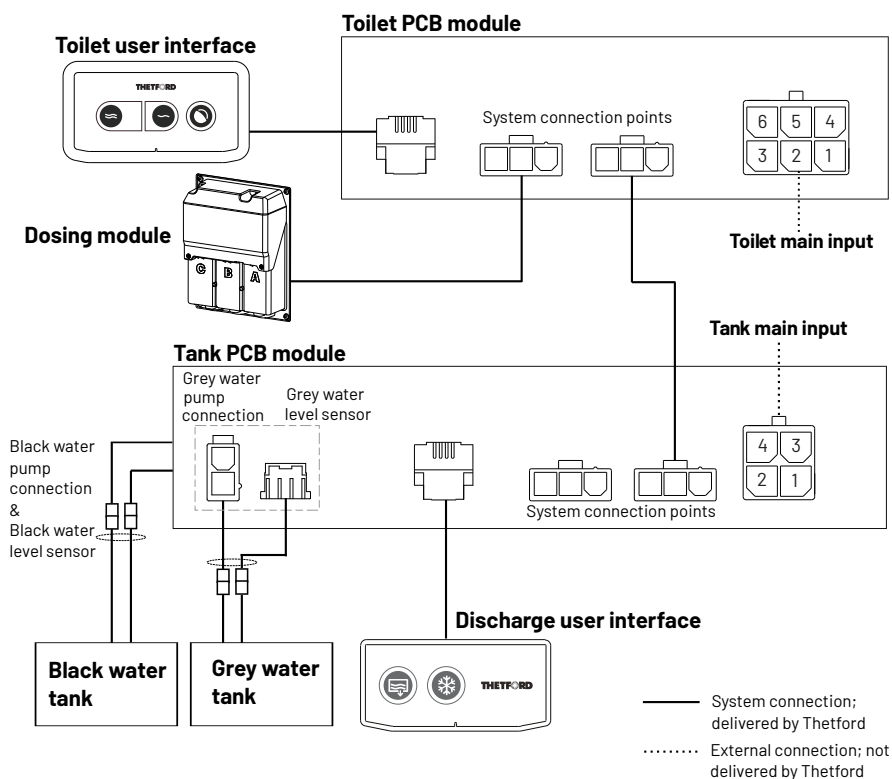
On controller	On cable	Description
	 Molex 1700010106	Toilet main input 1. 12 AWG Power ground 2. 14-16 AWG, Fresh water pump relay 3. 14-16 AWG, CI-bus ground* 4. 12 AWG, Power +12V DC (10A max., 10A fused) 5. 14-16 AWG, Fresh water pump relay 6. 14-16 AWG, CI-bus communication
	 Molex 1700010104	Tank main input 1. 12 AWG Power ground 2. 14-16 AWG, D+ ground** 3. 12 AWG, Power +12V DC (20A max., 20A fused) 4. 14-16 AWG, D+ positive**

7. Before installation

System and electrical overview

The INDUS trek system consists of two interconnected PCB's, the Dosing module and two User Interfaces. Each User Interface controls one or more INDUS trek modules. There are:

- A toilet user interface
- A discharge user interface
- A toilet PCB module
- A waste tank PCB module
- A Dosing module

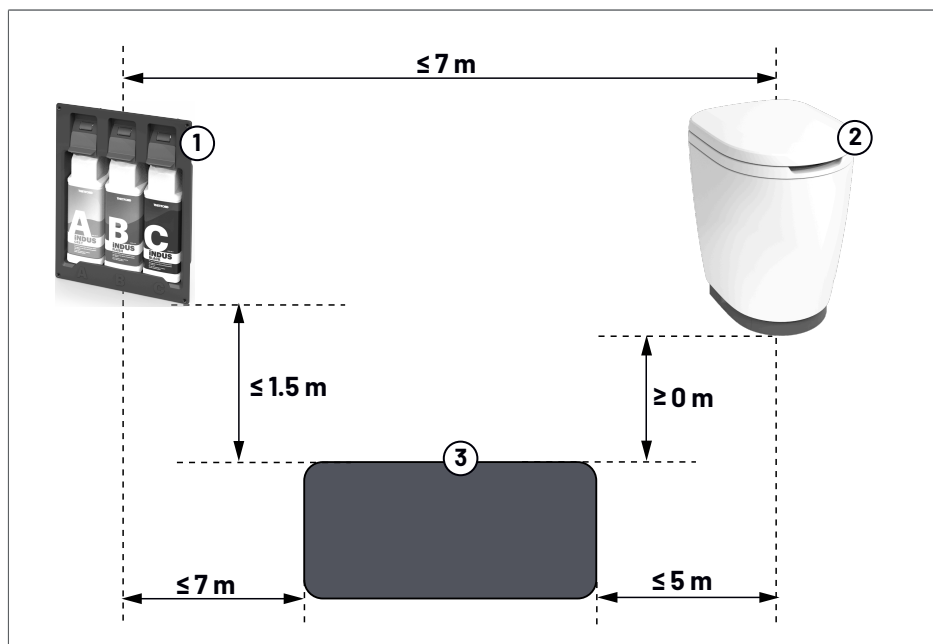


Please refer to the chapter *Technical specifications* for the wiring diagram of the individual connectors.



The system connection points have a bus-structure. The Dosing module can either be connected to the toilet PCB module or the tank PCB module.

System and distances overview



1. Dosing module
2. Toilet
3. Tank(s)

8. Installation of the Tank module

General



Read the applicable instructions in chapter *Safety* first.

Content of the box

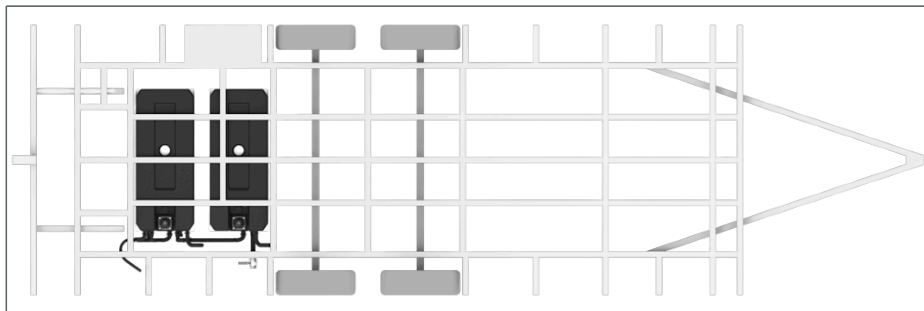
The tank set consists of 2 tank boxes and 1 installation pack. For these, check the content:

- Two tank boxes and installation pack.
- Waste tank PCB module.
- Discharge user interface.
- System connection/communication cable.
- Black and flush water additive.
- Separate communication cable (to tank).
- 7m grey water additive tube.
- 2x 90°, 32 mm hose bends with clamps
- 2x 90°, 25 mm hose bend with hose clamp
- Siphon-hose
- Rubber valve
- Y-hose
- Hose connectors and clamps

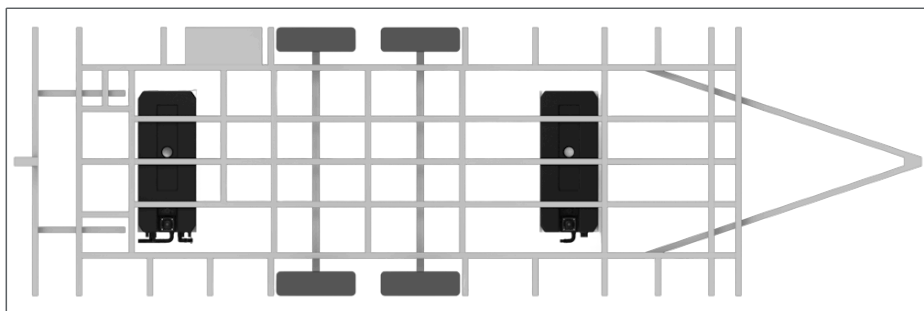
Tank mounting options

The black and grey water tanks can be placed next to each other, or for example at opposite positions around the axle, depending on the desired or needed space and weight-distribution.

Tank placement narrow



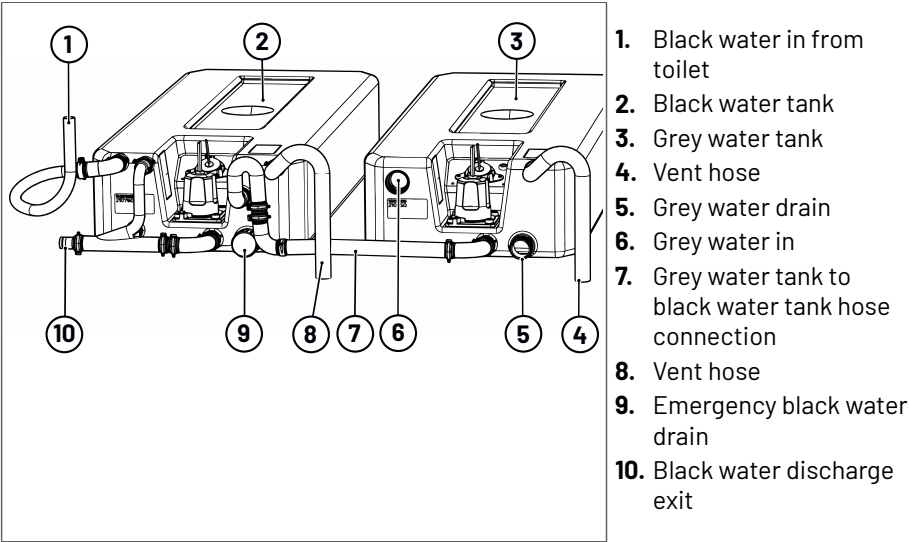
Tank placement wide



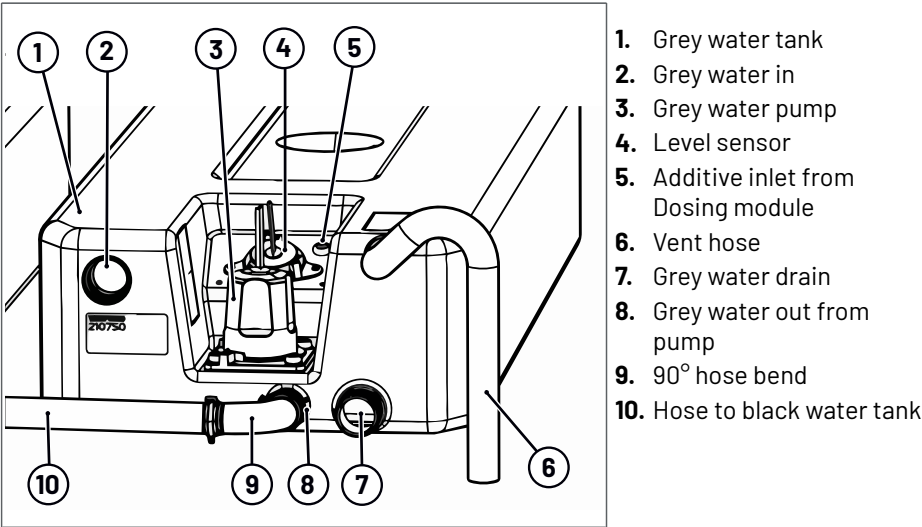
The grey water out hose to the black water tank should be routed along the chassis in a way that it stays within the area of the bottom and top of the tanks.

Parts overview

Tanks system global overview

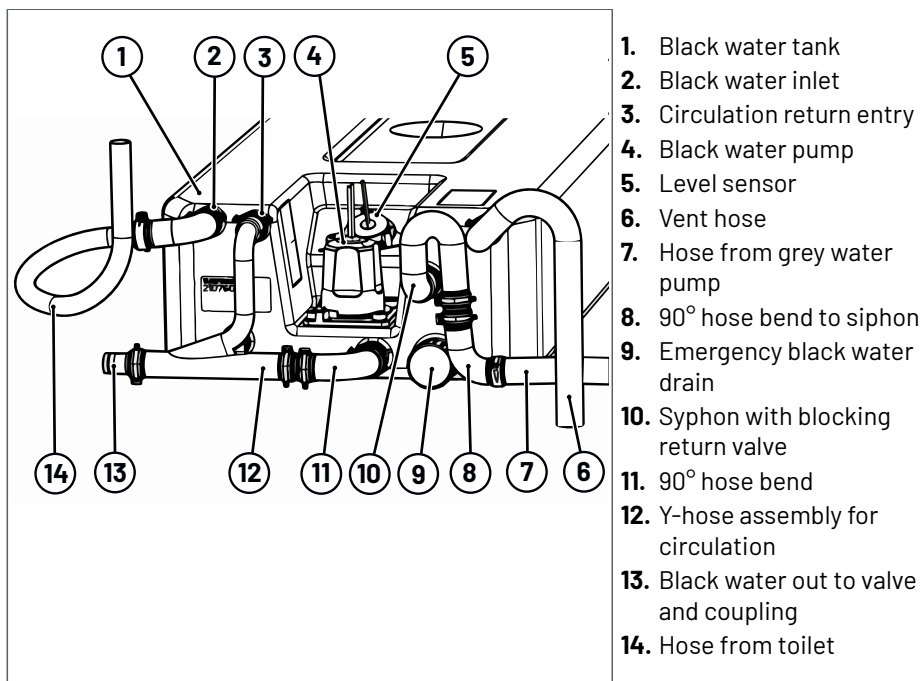


Tank system - grey water tank



- The grey water drain can for example be connected to an easily reachable hose and ball valve assembly, for draining the tank.
- The top-bend of a vent-hose shall be between a minimum of 200-300mm above the top of the tank. For the grey water tank, the exact height chosen, should prevent grey water passing back through the shower drain. For the black water tank, it is also possible to install a vertical vent hose, with a bended-down opening above the roof.
- With routing the vent hoses, be aware of the risk of leakage or overflow.
- The vent hose shall have precautions to prevent insects to enter and incubate.

Tank system - black water tank



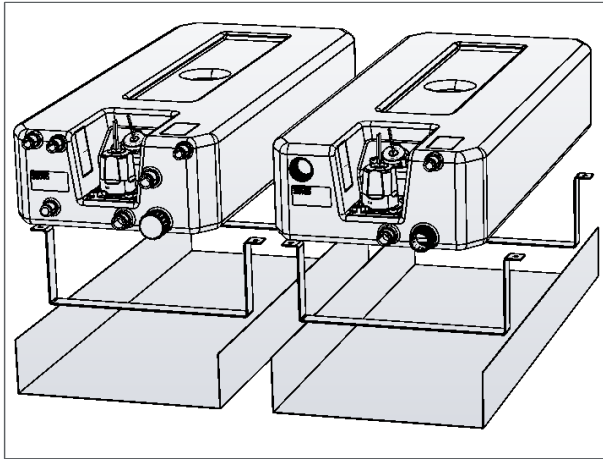
The black water out for discharging the tank, should be connected to a suitable valve and coupling for a discharge hose. The black water pump is activated 4 times per day, for circulation. The valve should be closed to allow this.

Dimensions

For measurements see *Technical specifications*.

Install the tanks

Tank mounting and protection



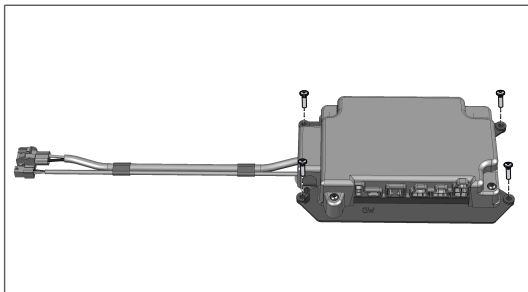
- Use support-braces to mount the tanks to the chassis
- AUS: Use a stone guard to protect the tanks from damage



Our advise is to use protection. Thetford doesn't supply the mounting brackets and stone guard.

Install the Waste Tank Controller PCB

Place the Waste Tank Controller PCB at a suitable location in the RV, taking into account the length of the other components that need to be connected.



- Use suitable 4mm screws to fixate the Waste Tank Controller PCB

Connect the hoses and tubes



Waste hoses are sold separately.



Check if the (venting) hoses are not blocked, kinked or damaged during installation.



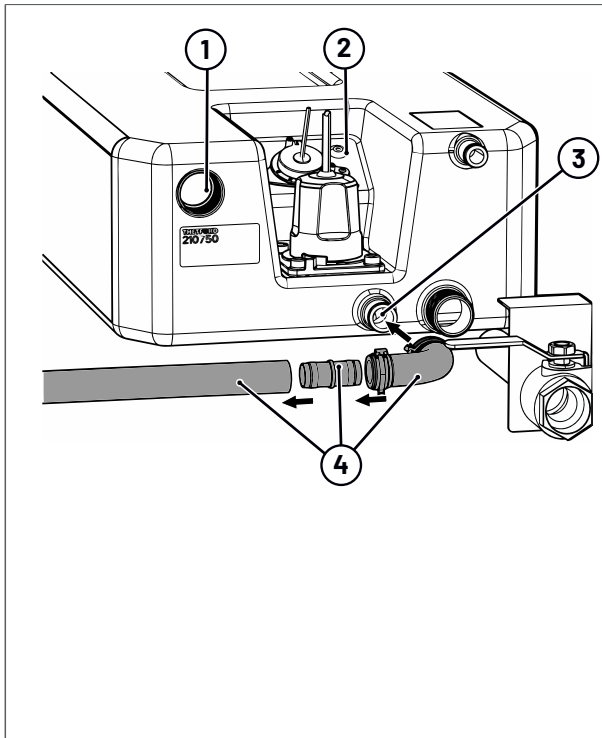
Prevent tubes and hoses from getting squeezed or kinked between surfaces.



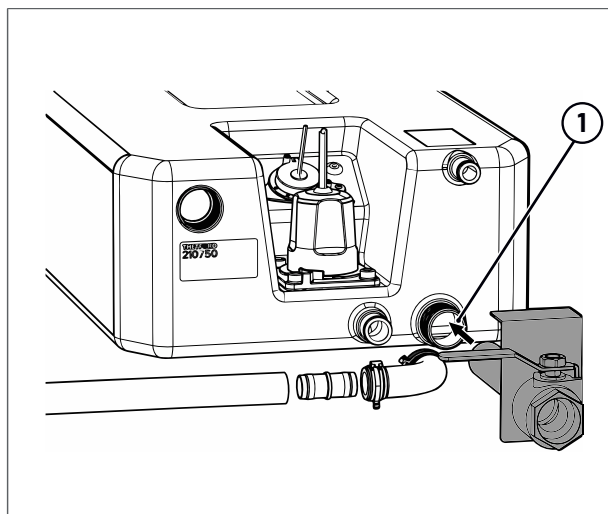
Do not bind tubes tight together.

Grey water tank hoses and placement

Grey water tank inlet and from pump to black water tank inlet



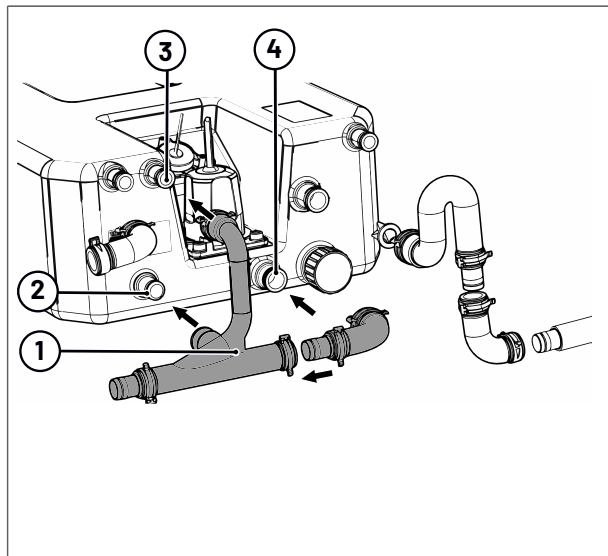
- Connect the grey water from shower and sink to the grey water inlet (1)
- Connect the grey water additive hose to the tank inlet (2)
- Collect the hose bend with clamps, the connection piece and cut a suitable length of hose to connect to the grey water inlet assembly of the black water tank (4)
- Assemble the hose connection and place the assembly over the grey water pump outlet (3)
- Place the vent hose over the vent pillar
- Secure all clamps



- Use a suitable hose and valve combination to be able to drain the grey water tank(1)

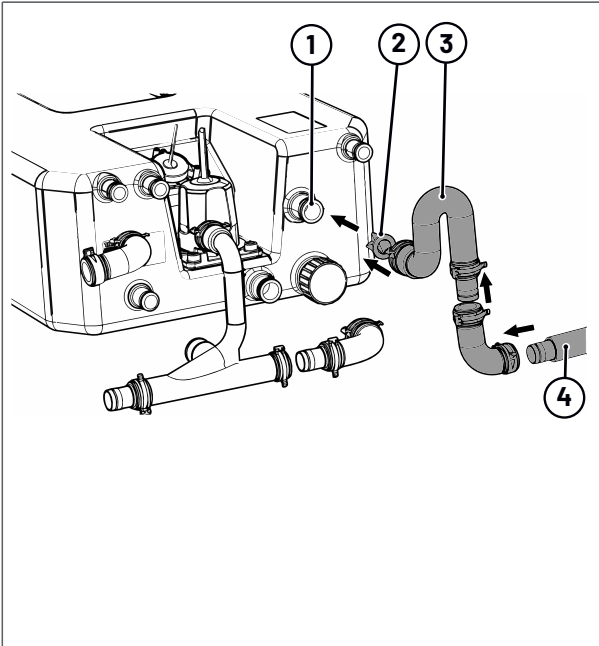
Black water tank hoses assembly and placement

Black water tank circulation hoses



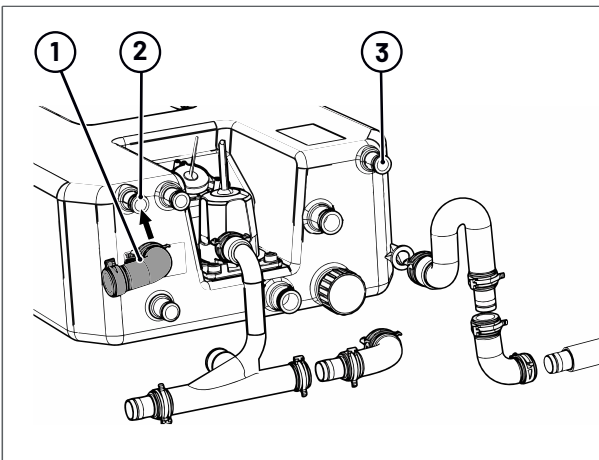
- Collect the Y-hose (1), 90° hose bend and the two connecting pieces
- With the clamps retracted, assemble all the parts
- Then place the top of the Y-hose on the inlet pillar (3)
- Place the hose bend on the black water drain outlet (4)
- Place the bottom side of the Y-hose on the support pillar (2)
- Secure all clamps

Grey water feed



- Collect the grey water syphon (3), the rubber valve piece (2), the hose bend and two connecting pieces
- Place the rubber valve (2) in the grey water inlet first (1)
- With the clamps retracted, assemble all the parts and place the siphon over the grey water inlet (1)
- Connect the grey water out hose from the grey water tank
- Connect the vent hose to the vent pillar
- Secure all clamps

Black water from toilet



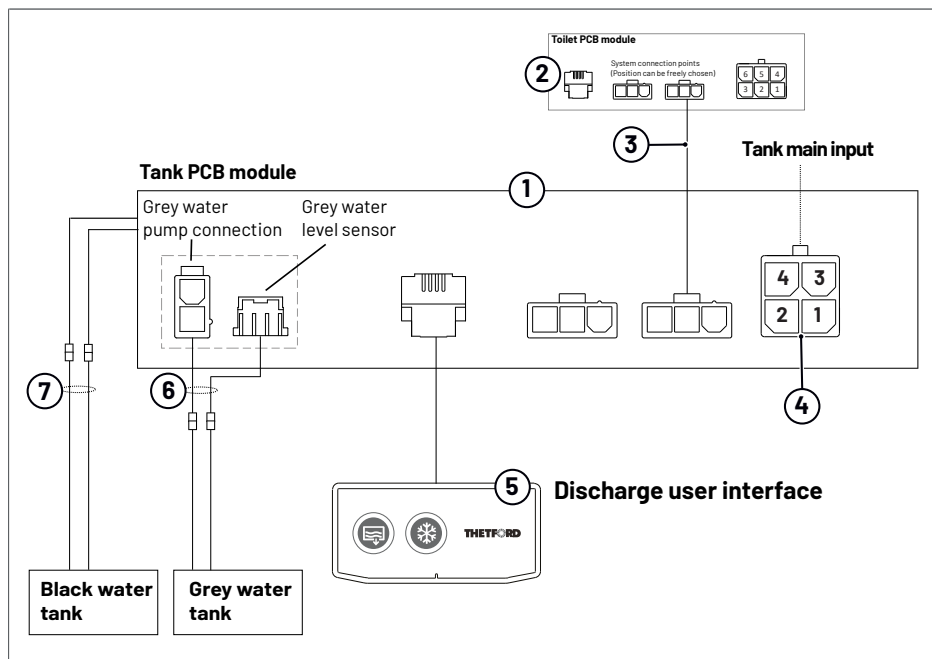
- Collect the hose bend (1)
- With the clamps retracted, assemble all the parts and place the hose bend (1) over the black water inlet (2)
- Connect the hose coming from the toilet to the hose bend assembly
- Connect the vent hose to the vent pillar (3)
- Secure all clamps

Connect the waste tank PCB module

See chapter *Before installation* for the full electrical overview.



System connection cables are provided by Thetford.



1. Tank PCB module.
2. Toilet PCB module.
3. System communication cable.
4. Tank PCB module power connection.
5. Discharge user interface.
6. Grey water tank cable assembly with 2 connectors.
7. Black water tank cable assembly with 2 connectors.

Connecting the system together

- Connect the tank PCB module with the toilet PCB module:
 - Use the provided system cable (3).
 - Plug one end of the system in the toilet PCB module (2).
 - Plug the other end of the system communication cable in the tank PCB module (1).
- Connect the Discharge User Interface with the tank PCB module:
 - Plug the provided cable into the discharge user interface (5)

- Plug the other end of the cable into the tank PCB module (1)
- Connect the wastewater tanks cable assemblies with the tank PCB module:
 - Connect the grey water tank cable assembly with the tank PCB module (6).

This cable assembly has a 25 cm long conversion cable connected to the main cable assembly from the tank, this to avoid mixing up the connections to the PCB module.
 - Connect the black water tank cable assembly with the tank PCB module (7).
- Connect the tank PCB module with the tank main input (4)

9. Installation of the Dosing module

General



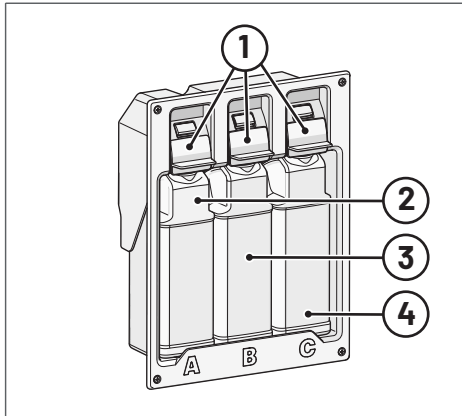
Read the applicable instructions in chapter *Safety* first.

Content of the box

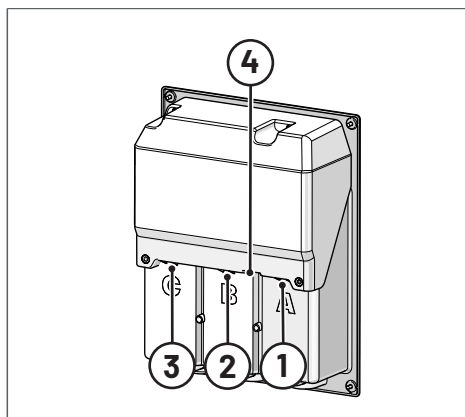
For the single-piece package appliance, check the content:

- Dosing module?
- Hose?
- Clamp?
- Containers/bootles/? with additives
- Please provide list?

Parts overview



1. Cartridge release slides
2. Grey water additive cartridge (A)
3. Flush water additive cartridge (B)
4. Black water additive cartridge (C)



1. Grey water additive tube out (A)
2. Flush water additive tube out (B)
3. Black water additive tube out (C)
4. Dosing module controller connection

Dimensions

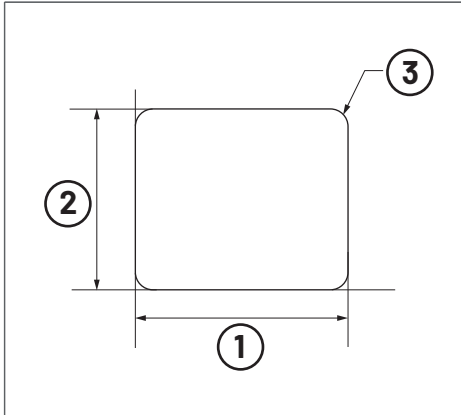
For measurements see *Technical specifications*.

Location

Select a suitable location to install the Dosing module.

- Position the Dosing module maximal 1.5 m above the grey water tank.
- Install the Dosing module in an isolated and heated environment.
- Make sure there is sufficient space around the Dosing module to operate the release slides and to change the additive cartridges.
- Mount the Dosing module so that the opening of the additive cartridge point upwards.

Preparation

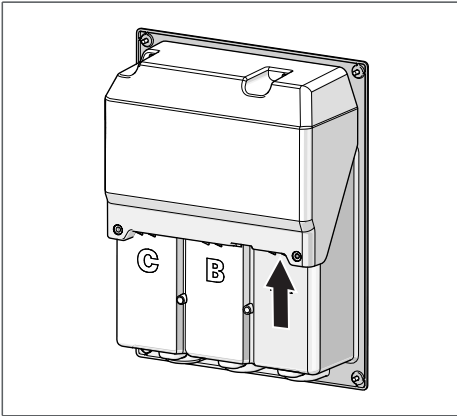


- Create a cut-out in the wall for the Dosing module
Dimensions:
 1. Minimum width = 280 mm
 2. Minimum height = 360 mm
 3. Maximum radius = 57 mm
- Do not install the Dosing module yet

Connect the tubes

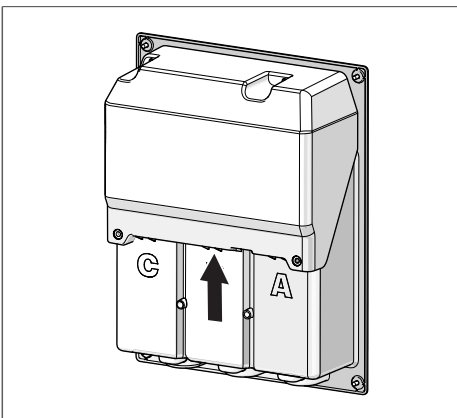
- i** Tubes are provided by Thetford.
- i** Maximum length of additive tube is 7 meters.
- i** Do not allow tubes to kink.
- i** Prevent tubes from getting squeezed between surfaces.
- i** Do not bind tubes tight together.

Grey water additives out tube



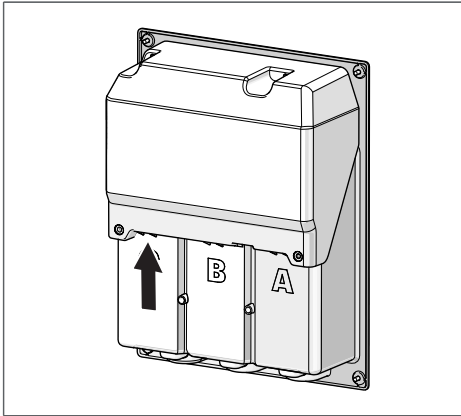
- Slide the tube over outlet pipe (A)
- Use transparent tube with inner diameter of 3 mm
- Connect the tube to the grey water additives in of the Tank module

Flush water additives out tube



- Slide the tube over outlet pipe (B). Use blue tube with inner diameter of 3 mm
- Connect the tube to the flush water additives in of the Toilet module

Black water additives out tube



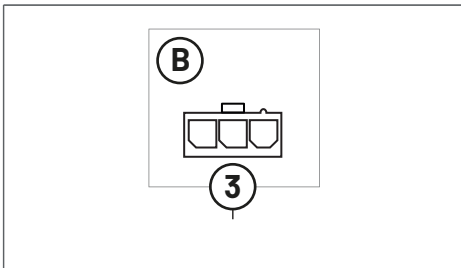
- Slide the tube over outlet pipe (C)
- Use red tube with inner diameter of 3 mm
- Connect the tube to the black water additives in of Toilet module.

Connect the Dosing module controller

See chapter *Before installation* for the full electrical overview.



System connection cables are provided by Thetford.

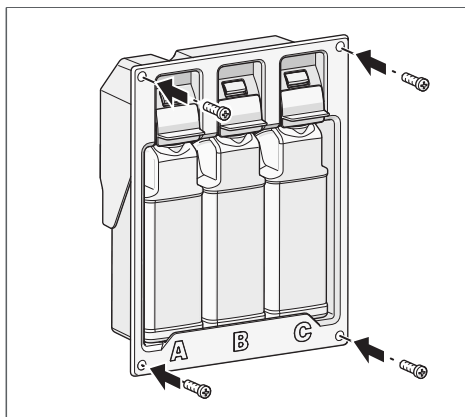


- Connect the system connection cable (3) to the Dosing module controller
- Connect the other end of system communication cable to the Toilet module controller or the waste tank controller PCB.

Install the Dosing module



Screws are not supplied by Thetford.



- Secure the Dosing module to the wall using four screws with a minimal diameter 5 mm

10. Installation of the iNDUS Trek Discharge

General



Read the applicable instructions in chapter *Safety* first.

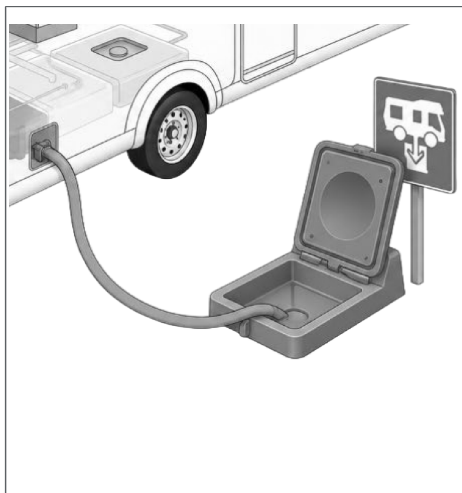
Introduction

Due to the different demands of the Australian market, the iNDUS Trek is designed differently. There is no Discharge module as part of the system.

A valve with a suitable connection to a third-party discharge hose, needs to be connected to the black water out hose of the tank system.

Commonly used discharge hoses are available in various lengths from third party suppliers.

Discharge in process



Discharge hose example

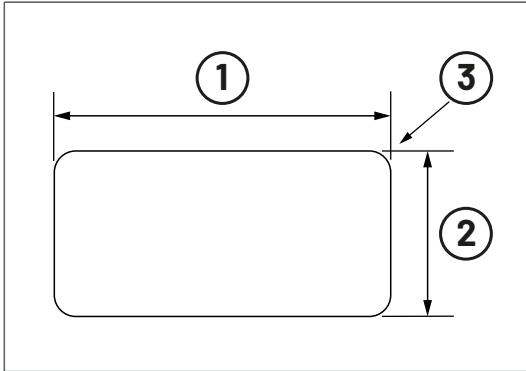


Location



- Make sure the discharge user interface is placed in a suitable location where it cannot be damaged by moisture, water or otherwise.
- And make sure that the discharge user interface can be controlled, whilst keeping an eye on the discharge process.

Install the Discharge User Interface



- Create a cut-out opening in a wall for the discharge user interface

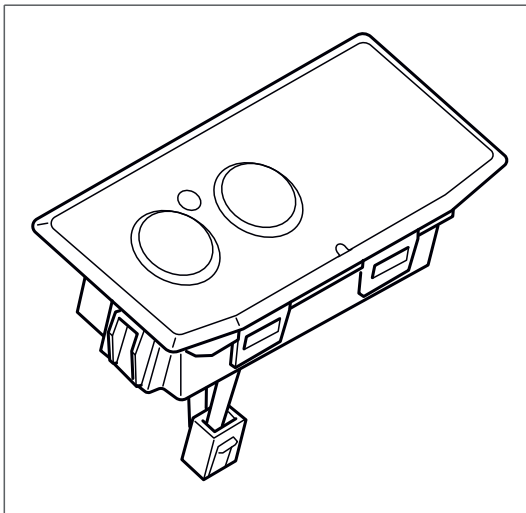
Dimensions:

1. Width = 85 mm
2. Height = 42 mm
3. Radius = 8 mm

Minimum wall thickness 9 mm

Maximum wall thickness 15 mm

Draft



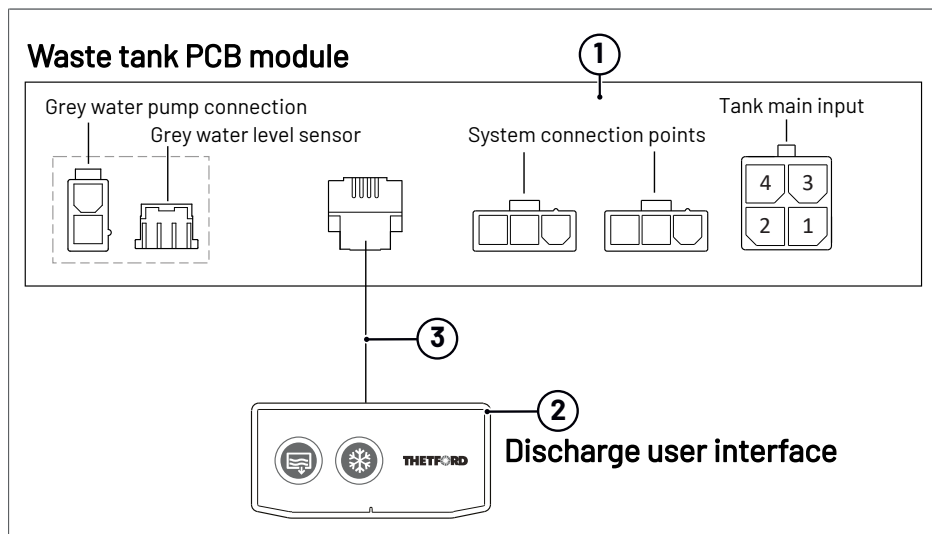
- Feed the wiring harness from the behind through the opening
- Connect the wiring harness to the discharge user interface
- Push the Discharge User Interface in the opening until it snaps in place
- Strap the wire-harness to a strain relief to secure it

Connect the discharge user interface

See chapter *Before installation* for the full electrical overview.



The wiring harness of the discharge user interface module is 6 m long.



- Connect the discharge user interface (2) to the waste tank PCB module (1), using the wiring harness (3).

11. Installation of the toilet

General



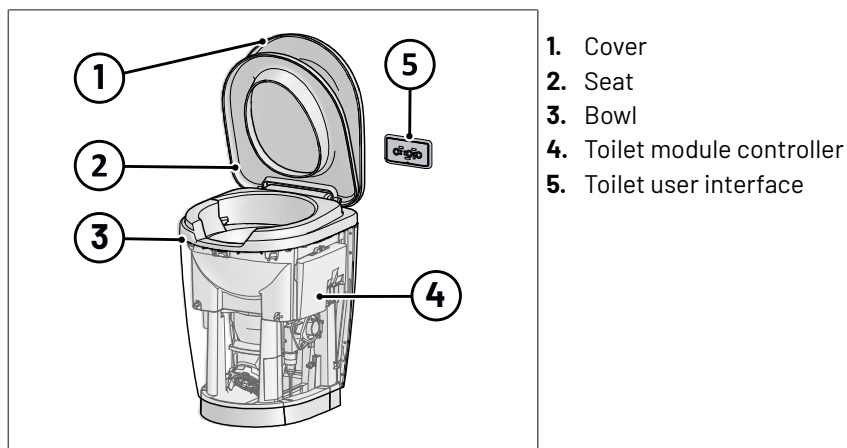
Read the applicable instructions in chapter *Safety* first.

Content of the box

For the single-piece package appliance, check the content:

- Toilet
- Toilet user interface

Parts overview

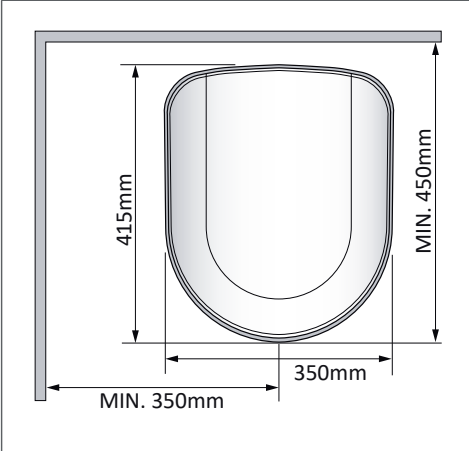


Dimensions

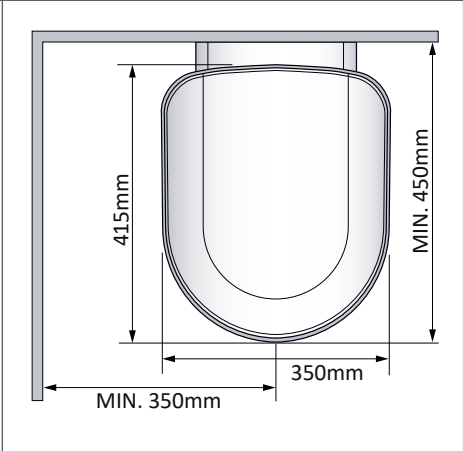
For measurements see *Technical specifications*.

Position and placement

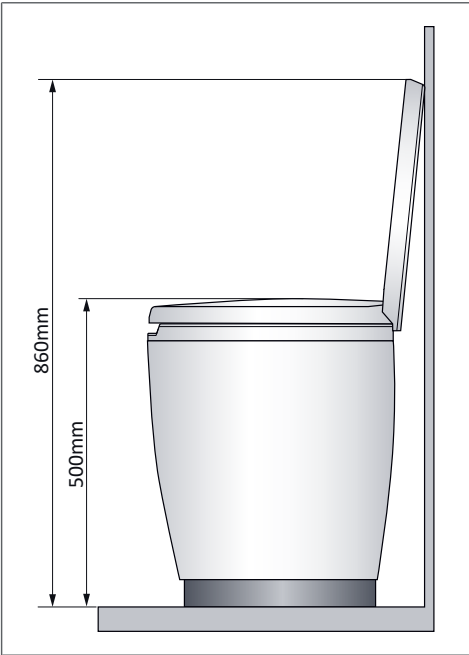
e106-S top view



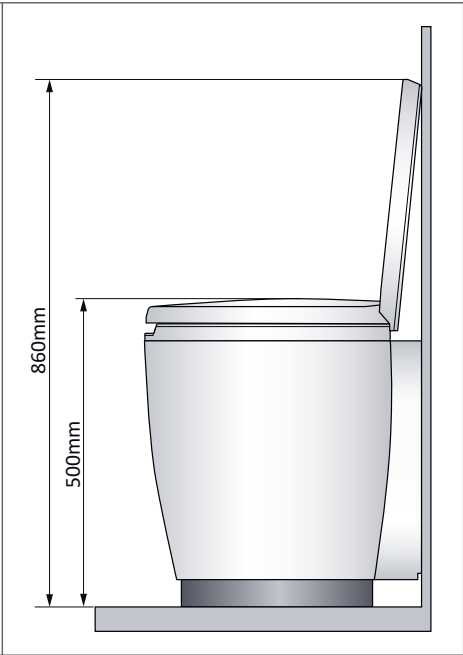
e106-CS top view



e106-S side view



e106-CS side view

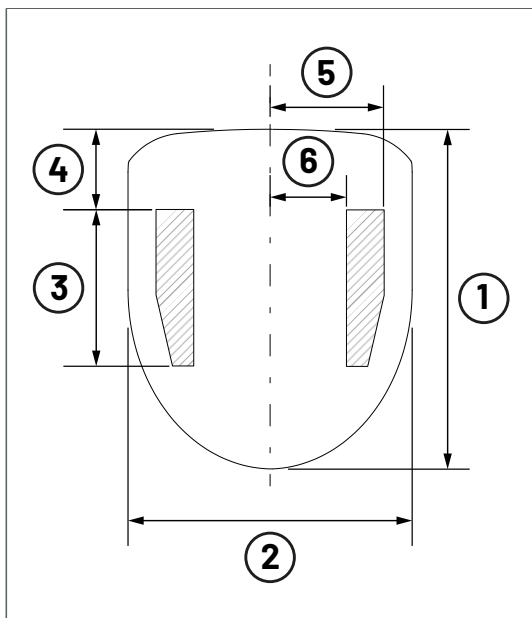


- The distance from the centre of the toilet to the side walls must be at least 350 mm to ensure an ergonomic sitting position.
- The distance from the back of the toilet to the back wall must be at least 35 mm to ensure that the lid can be fully opened.
- Placing the toilet in a different angle related to the walls may change these dimensions.

Preparation

- i** The wiring harness of the Toilet User Interface has a length of 2.7 meter.

e106-S only

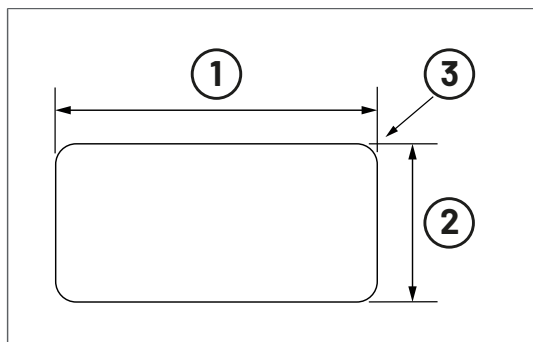


- Make two cut-outs in the floor through which the hoses and wiring can be routed

Dimensions:

1. 391 mm
 2. 273 mm
 3. 145 mm
 4. 75 mm
 5. 107 mm
 6. 75 mm
- If necessary reinforce the floor
 - If applicable install a shower tray

- i** For the e106-CS all wiring and hoses can be routed via the wall-mounted console.



- Create a cut-out opening in a wall for the control panel

Dimensions:

1. Width = 85 mm
2. Height = 42 mm
3. Radius = 8 mm

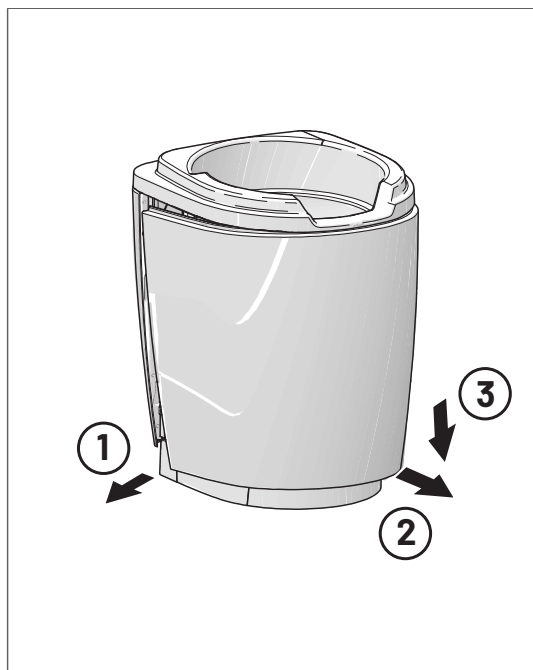
Minimum wall thickness 9 mm

Maximum wall thickness 15 mm

Install the Toilet module



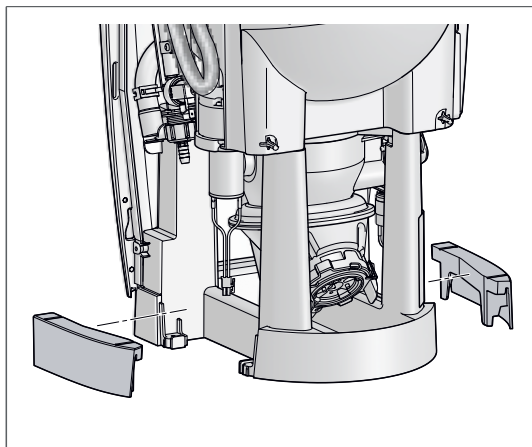
Screws are not supplied by Thetford.



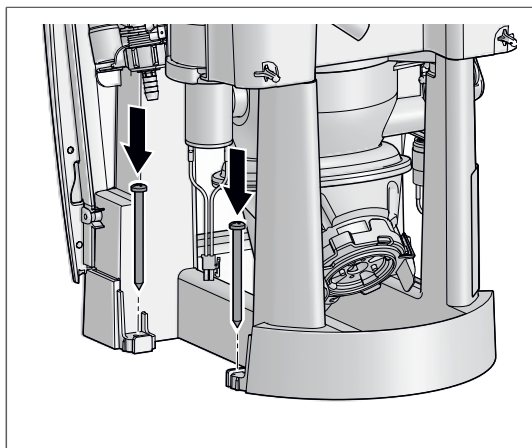
1. Pull the left and right bottom corners of the front cover outwards
2. Pull the cover away from the toilet
3. Pull it slightly downwards to fully detach the cover

Click here for more information on how to remove and replace the front cover.





- Remove the left and right base service covers by pulling them upwards



- Mount the toilet to the floor using four stainless screws with a diameter of 4 mm

Connect the hoses



Do not allow hoses to kink.

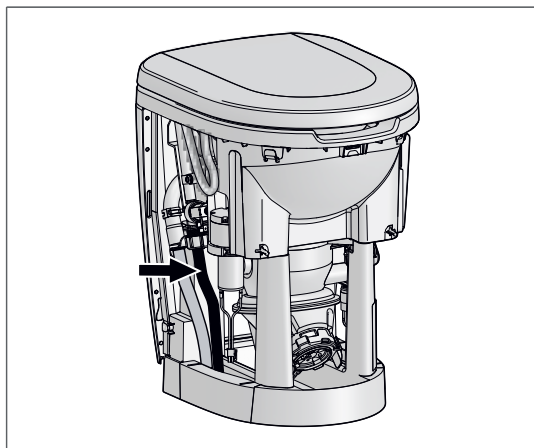


Prevent hoses from getting squeezed between surfaces.



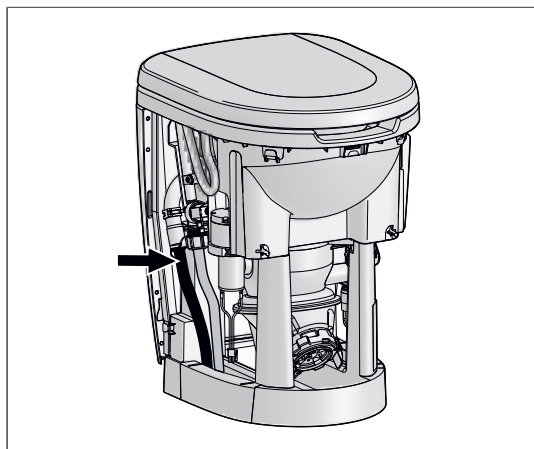
Do not bind hoses tight together.

Fresh water in hose



- Slide the hose over the flush water in pipe. Use hose with inner diameter of 10 mm
- Secure with a hose clamp
- Connect the hose to the fresh water pump of the fresh water tank

Black water out hose

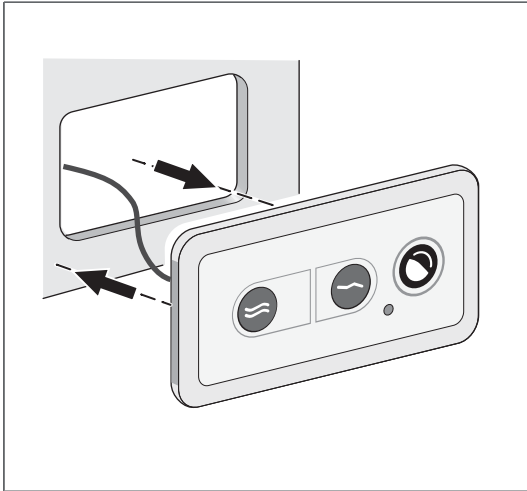


- Slide the hose over the black water out pipe. Use hose with inner diameter of 16 mm
- Secure with a hose clamp
- Connect hose to the black water in of the Tank module



This hose is sold separately by Thetford.

Mount the toilet user interface



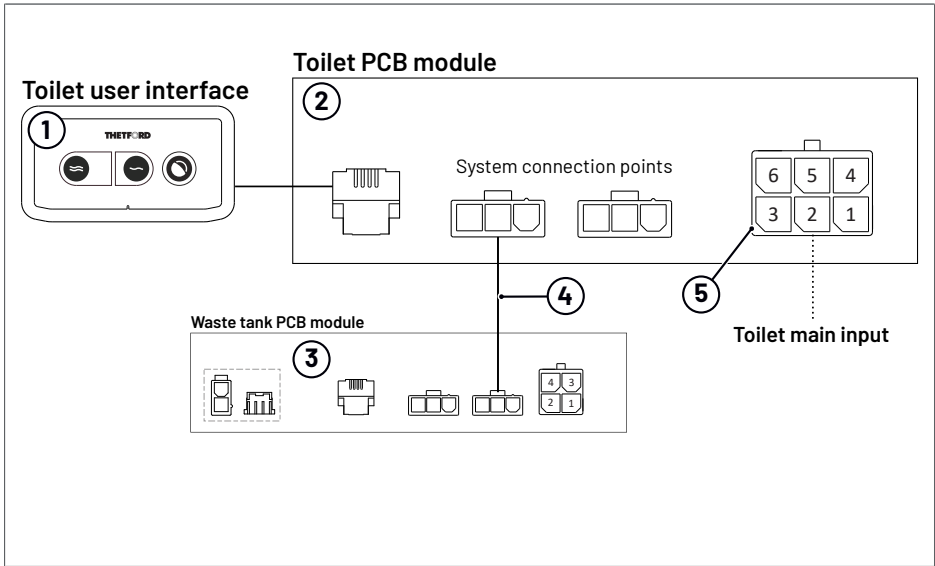
- Push the user interface diagonal from the back through the cut-out opening
- Push the User Interface in the opening until it snaps into place
- Route the wiring harness from the User Interface to the Toilet PCB module

Connect the toilet PCB module

See chapter *Before installation* for the full electrical overview.



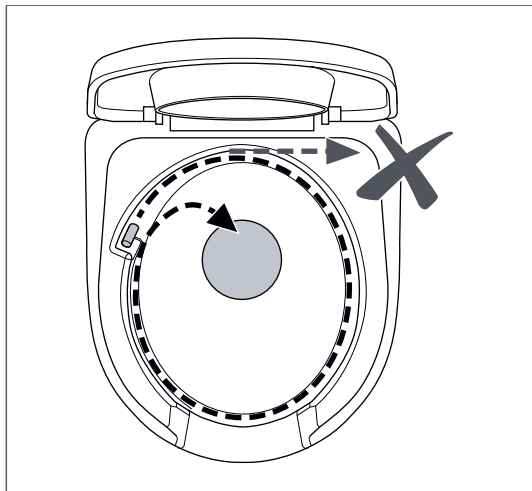
System connection cables are provided by Thetford.



- Connect the toilet user interface (1) with the toilet PCB module (2).
- Connect the toilet PCB module (1) with the waste tank PCB module (3), using the provided system cable (4).
- Connect the toilet PCB module (2) with the toilet main input (5).

Finish the installation

Check the flush



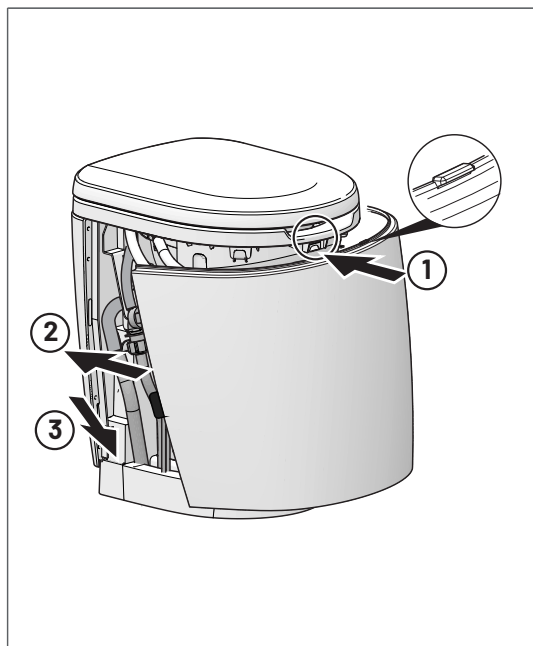
On correct water supply:

- Minimum: flush all around the bowl
- Maximum: **NO** over-flush



The water flow at end of the tube (before the solenoid valve) should at least be 11L/min, taking the minimum and maximum flush into account.

Place cover



1. Hook the notch of the cover in the slot on the top of the toilet base
2. Move the cover in place, while ensuring the rim of the cover has a good fit under the top of the toilet base
3. When in place, push the left and right bottom corners of the front cover inwards



12. After installation



Read the applicable instructions in the chapter *Safety* first.

Visual checks

- Check that hoses are not pinched or damaged.
- Check that cables are not pinched or damaged.
- Check that all connectors are seated correctly.
- Check if the toilet flushes correctly.
- Check that seat and cover can be opened completely.
- Check that the black- and grey water tanks are securely fixated and cannot move or rattle.

Functional checks

After all modules are installed, open the Thetford End-of-Line app.

- This app verifies if all modules are electronically correctly connected and performs a self-test.
- Scan the serial number of the vehicle to link the iNDUS trek system.
- Upload the self-test results to Thetford, to guarantee the correct functionality of the iNDUS trek system.

13. Service & questions



Read the applicable instructions in the chapter *Safety* first.

Service

Before starting any service work, disconnect the appliance from the electrical supply. After each service the appliance must be checked for electrical safety.



All servicing must be carried out by an approved competent person.

Troubleshooting

For troubleshooting check the website
www.thetford.com

Questions

If you have questions about your product, parts, accessories or authorised services visit www.thetford.com, or use the service part in the Thetford app.

If you contact an authorised local Service Centre in your country, provide the details of the model and serial number plus the date of purchase. You can find the information on the label attached to the appliance.



Warranty

For our warranty clause, please refer to the conditions mentioned on www.thetford.com.

Declaration of Conformity

Thetford hereby declares that this product is in compliance with the essential requirements and other relevant provisions of the applicable Regulations, Directives and Standards. A copy of the Declaration of Conformity can be found at www.thetford.com.



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