

TANKBLANKET™

Installation Instructions

Please read and digest ALL the instructions before you commence installation.

If you are still unsure, then please call or [contact us](#) through our Support page.

We recommend our fitting kit, which contains all the necessary materials for the installation.

Materials Tools & Equipment Required

Materials required are:

1. TankBlanket
2. Switch & spade connectors
3. 2mm single core thin walled Black cable
4. 2mm single core thin walled Red cable
5. Earth wire
6. Cable Clips
7. Cable Ties
8. Alcohol Wipes
9. Crimp connectors [male]
10. Crimp connectors [female]
11. 15 A blade fuse & in line Holder
12. Silicone Sealer
13. Rubber strip protection
14. Electrical connecting blocks (three gang minimum)

Tools required are:

1. Cordless Drill
2. Crimps for making 12V electric connections
3. Screwdriver set
4. Socket set

Installation Steps

1. General Overview
2. Selecting a position for TankBlanket
3. Preparation for the installation of TankBlanket
4. Fitting TankBlanket to the Tank
5. Installing the feed wires
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7. Connecting power & commissioning
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1.0 General Overview

NOTE: THE AMBIENT TEMPERATURE OUTSIDE MUST BE AT OR ABOVE 10 °C when applying the TankBlanket to your holding tank.

DO NOT fit the TankBlanket over metal straps, It **MUST** always be fitted directly onto the fresh or waste water tank.

DO NOT position the TankBlanket so that the metal straps cover the sensor, which is the 6mm X 19mm raised lump close to where the power leads enter the pad.

ONLY use soap and water and an Alcohol based wipe when pre-cleaning the tank.

There is no need to drill holding tanks and therefore no risk of leaks.

TankBlankets mounting adhesive strengthens & becomes more aggressive with age.

Being modular in design allows the TankBlanket system to be upgraded over time. The TankBlanket system includes TankBlankets, PipeBlankets, TankJackets, PipeJackets and the system can be regulated individually or through one central 'intelligent' controller.

When the temperature in the fresh or waste water tank drops to 6.7 °C the thermostat on TankBlanket will turn the heater element 'ON'.

When the contents of the fresh or waste water tank rises to 18 °C the TankBlanket thermostat will turn the system 'OFF'.

Why not join our community on Facebook and twitter and share your experiences with TankBlanket?

If you are still unsure, then please call or [contact us](#) through our Support page.

2.0 Selecting the position for TankBlanket

The TankBlanket should **ALWAYS**:-

- Be located on the bottom of the holding tank.
- Be positioned as close to the feed outlet pipe as is practical.
- Be layed flat against the Tank.

But where space is restricted,

- TankBlanket can be wrapped up the side of the tank. Although most of TankBlanket **MUST** still be positioned on the bottom of the Tank.

And, if you're fresh water or waste tank has grooves or ribs then,

- Select a position that minimises contact with them, although still position the TankBlanket as close to the outlet pipe as is practical.

3.0 Preparation for the Installation of TankBlanket

CAUTION: DO NOT use any type of SOLVENT to clean the holding tank surface.

1. Loosen the holding straps on your tank.
2. When pre-cleaning the tank only use soap & water and alcohol wipes.
3. Pre-clean the dust, dirt and any other foreign matter from the holding tank surface.
4. Rinse the residual soap off the tank with cold water and allow drying.
5. Wipe the selected installation area with the alcohol wipe supplied.
6. Allow the tank surface to dry completely.
7. **DO NOT** proceed to next step before the tank is completely dry, circa 30mins.

4.0 Fitting of TankBlanket to the Tank

CAUTION: When installed TankBlanket will be very difficult to remove without damage.

- Peel the backing paper off the TankBlanket exposing the adhesive.
- For best results start at one end of the TankBlanket.
- Slowly but firmly press the TankBlanket down onto the surface of the Fresh or waste water tank.
- Make sure that ALL the TankBlanket makes contact with the surface of the fresh or waste water tank.
- **BE** careful **NOT** to stretch the TankBlanket beyond its original size.

If your fresh or waste water tank has grooves or ribs then:

- Make sure **NO** air gaps or loose edges are created.
- No TankBlanket adhesive should be exposed.
- Working from one end be careful to lay the TankBlanket into the grooves or over the ribs.
- Make sure the TankBlanket is in complete contact with the holding tank surface.
- **BE** careful **NOT** to stretch the TankBlanket beyond its original size. TankBlanket will mould completely to the contours of your holding tank.

After applying the TankBlanket to your tank then to activate the pressure sensitive adhesive:

- Press down firmly across the whole area of the TankBlanket.

NOTE 1: When positioning the TankBlanket, make sure that the sensor, indicated by the raised lump (approx. 6 x 19 mm) where the power leads enter the pad, is NOT going to be trapped under a metal strap.

NOTE 2: It is also strongly recommended you place a thick rubber strip between the strap and TankBlanket to protect against friction and possible cutting through of the TankBlanket by the metal strap.

5.0 Installing the feed wires

USE in conjunction with the TankBlanket 12Vdc circuit diagram.

CAUTION: NEVER allow high voltage on the 12V dc power circuit.

- TankBlanket should be powered from the **Leisure Battery**. **NEVER** power TankBlanket directly from the **Vehicle battery**.
- **Do not** combine TankBlanket power circuits with any other device that uses electric motors.
- Use a minimum two core 14 AWG / 2mm thin wall electric cable.
- Use an illuminated switch rated for 15 amps.
- Each 12V dc power circuit for TankBlanket must only use a 15 Amp rated fuse.

Installation using 2mm single core thin walled cable

Running the feed wires:

- Select the position you wish to locate the switch e.g. the wardrobe bulkhead.
 - Evaluate the length of electric cable you need between the Leisure Battery and Switch.
 - Install both the Red (+ve) and Black (-ve) or Earth cable between the Leisure battery and switch BUT do not make any connections to the 12V dc power supply. You can run the cable either internally or externally. Use suitable cable ties to secure the wires, being careful of hot surfaces and snags.
 - If you decide to run the cable externally, drill a hole in the floor at an appropriate position, just large enough for the cable to comfortably pass through. Use a sealer to prevent any possibility of moisture ingress.
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- Select the position you wish to mount the 15A Fuse carrier on the +ve (red) feed between the battery and switch and install.
 - Evaluate the length of electric cable you need between the TankBlanket and Switch. Install both the Red (+ve) and the Black (-ve) cable between the TankBlanket and switch BUT do not make any connections. Use suitable cable ties to secure the wires, being careful of hot surfaces and snags.
 - Drill a hole in the floor at an appropriate position, just large enough for the cable to comfortably pass through. Use a sealer to prevent any possibility of moisture ingress.

6.0 Installing the switch & fuse

- Select the position you wish to locate the switch e.g. the wardrobe bulkhead, as, you then have easy access to the back of the switch to make connections.
- Using a suitable hole drill make a hole in the selected bulkhead.
- Assemble the outer body of the switch to the bulkhead.
- Connect the -ve cable from the battery (black / earth) and the -ve cable from the TankBlanket (white) to one side (input) of a connecting block.
- On the opposite side (output) of the connecting block make a loop of black / earth cable to join both -ve feeds from the battery and TankBlanket. Use Black / earth cable to create a single output feed from the connecting block to position three on the switch.
- To connect the -ve black/ earth cable from the connecting block to the switch use a spade connector. Using a spade connector on the +ve Red feed from the battery connect to the switch at position two.
- Using a spade connector on the +ve Red feed from TankBlanket connect to the switch at position one.

7.0 Connecting power & commission

- Using a bullet connector join the +ve red feed cable to the +ve red on TankBlanket.
- Using a bullet connector join the -ve black/earth cable feed cable to the -ve white on TankBlanket.
- Connect the -ve black feed to your -ve 12V dc power supply (leisure battery),
- Connect the +ve black feed to your 12V dc power supply (Leisure battery)

To commission:

- Make sure you're fresh or waste water Tank contains liquid.
- Place the TankBlanket switch to 'ON'. The LED should light up.

If you wish to check the TankBlanket is functioning correctly Place a freezer block on the TankBlanket thermostat (the raised part of the TankBlanket). After a while, touch the centre of the black foam backing. It should feel warm indicating the TankBlanket is working correctly.

- **Congratulations! Your TankBlanket is now installed.**

- Finally please review the TankBlanket Operation and Maintenance instructions.

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