

TANKBLANKET™

PipeBlanket 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. PipeBlanket
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. 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 PipeBlanket
3. Preparation for the installation of PipeBlanket
4. Fitting PipeBlanket to the pipe
5. Installing the feed wires
6. Installing the Switch and fuse
7. Connecting power & commissioning
8. PipeBlanket Operation & Maintenance

1.0 General Overview

NOTE: THE AMBIENT TEMPERATURE OUTSIDE MUST BE AT OR ABOVE 10 °C when applying the PipeBlanket to the pipe being protected.

When pre-cleaning the pipe to which PipeBlanket will be applied use **only** soap and water and an alcohol based wipe.

PipeBlankets mounting adhesive strengthens & becomes more aggressive with age.

PipeBlanket is part of an integrated system which includes not only PipeBlanket but TankBlankets, TankJackets, PipeJackets and the system can be regulated individually or through one central 'intelligent' controller.

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 PipeBlanket

Select a position for the PipeBlanket on the BOTTOM of the pipe.

DO NOT APPLY YET - READ & PERFORM STEP 3: 'Prep for installation'

A. For Drain Pipes:

Locate PipeBlanket(s) so that they cover the majority of the exposed drain pipe and leaves no more than 50 to 80 mm between PipeBlankets or the ends of the drain pipe being protected.

B. for Fresh water pipes:

Use one PipeBlanket per 300mm of pipe. If more than one PipeBlanket is required then leave a gap between PipeBlankets of 12mm.

To enhance the level of freeze protection, it is recommended that PipeJacket is used.

Caution: Only use an alcohol based cleaner

3.0 Preparation for the Installation of PipeBlanket

Caution: DO NOT use any type of SOLVENT to clean the pipe surface onto which PipeBlanket will be applied.

1. Pre-clean the dust and other foreign matter from the surface of the pipe where PipeBlanket will be applied. Uses only soap and water and allow the pipe to completely dry.
2. Wipe the selected installation area with an alcohol based wipe.
3. Allow the pipe surface to dry completely.

Do not proceed to next step before the pipe is completely dry.

4.0 Fitting of PipeBlanket to the Pipe

Caution: When installed PipeBlanket will be very difficult to remove without damage.

Peel the backing paper off the PipeBlanket exposing the adhesive surface.

For Drain Pipes:

- a. PipeBlanket must be attached to the bottom of the Drain pipe.
- b. Place the centre of PipeBlanket on the bottom of the Drain pipe.
- c. PipeBlanket MUST on Drain pipes run longitudinally along the bottom of the Drain pipe.
- d. DO NOT spiral wrap PipeBlanket around the Drain pipe.
- e. Firmly press the PipeBlanket down so that its adhesive surface makes contact with the pipe.
- f. Be careful NOT to stretch PipeBlanket beyond its original size.
- g. PipeBlankets heating element should always be placed on the bottom of the drain pipe.

For Fresh water pipes:

1. PipeBlanket must be attached to the bottom of the Fresh water pipe.
2. Place the centre of PipeBlanket on the bottom of the Fresh water pipe.
3. PipeBlanket MUST on Drain pipes run longitudinally along the bottom of the Fresh water pipe.
4. DO NOT spiral wrap PipeBlanket around the Fresh water pipe.
5. Firmly press the PipeBlanket down so that its adhesive surface makes contact with the pipe.
6. Be careful NOT to stretch PipeBlanket beyond its original size.
7. PipeBlankets heating element should always be placed on the bottom of the Fresh water pipe.
8. It is OK if the edges of PipeBlanket overlap slightly on the top of the Fresh water pipe.

5.0 Installing the feed wires

USE in conjunction with the PipeBlanket 12Vdc circuit diagram.

Caution: Never allow high voltage on the 12V dc power circuit. It will cause severe damage to PipeBlanket.

Caution: All DC power circuits for TankBlanket products should be dedicated to powering TankBlanket, PipeBlanket & iController only.

Caution: Do not combine TankBlanket or PipeBlanket heaters on power circuits containing electric motors (water pumps, motors, blown air heating etc.).

- PipeBlanket should be powered from the Leisure Battery.
- Never power PipeBlanket directly from the Vehicle battery, it should be fused.
- Use a minimum two core 14 AWG / 2mm thin wall electric cable, or a minimum of single core 2mm thin wall cable.
- Use an illuminated switch rated for 15 amps.

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 PipeBlanket and Switch. Install both the Red (+ve) and the Black (-ve) cable between the PipeBlanket 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.

TankBlanket and PipeBlanket heaters can be combined on the same power circuit as long as the following conditions are met:

- All TankBlanket and PipeBlanket heaters are connected in parallel.
- All TankBlanket & PipeBlanket positive leads (coloured red) MUST be connected together to the positive feed wire.
- All TankBlanket & PipeBlanket negative leads (coloured white) MUST be connected together to the negative feed wire.
- The total current draw of all Tank & Pipe Blankets to be combined on one DC power circuit must be less than 15A.

NOTE: If combining TankBlanket(s) and PipeBlanket(s) on one DC circuit make sure that when the circuit is switched on there is water in the tanks &/or pipes. If this will not be the case then we advise that each TankBlanket &/or PipeBlanket has its own DC circuit.

6.0 Installing the switch & fuse

- Select the position you wish to locate the switch e.g. 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 12Vdc power source (black/earth) and the -ve cable from the PipeBlanket (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 12Vdc power source and PipeBlanket. 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 PipeBlanket 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 PipeBlanket.
- Using a bullet connector join the -ve black/earth cable feed cable to the -ve white on PipeBlanket.
- 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 there is water in the pipe being protected.
- Switch the PipeBlanket switch to 'ON'. The LED should light up.

To check the PipeBlanket is functioning correctly, touch the centre of the black foam backing. It should feel warm indicating the PipeBlanket is working correctly.

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

Finally please review the PipeBlanket Operation and Maintenance instructions

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