

## ThermoBar 30 – installation, user instructions and care

Finally your product from ThermoBar is here! We would like to thank you for choosing ThermoBar. We suggest you read through this entire document before you assemble and install your ThermoBar. You will then know not only how to install it and use it correctly, but also how to best take care of it so it will last for many years. At **thermobar.se** you will also find a number of really helpful instructional films with more information and advice on most of our products.

### NB!

- There is a foil heater and thermostat placed under each ThermoBar's inner base. ThermoBar's guarantee does not cover troughs that have damage to the inside base, so please make sure that your horses don't put their hooves in the trough.
- The person who installs and oversees the use of the ThermoBar is responsible for making sure it is assembled, positioned and used correctly.
- We recommend that you always remove the power plug from the power source and empty the ThermoBar when it is not in use.
- Never store your ThermoBar upside down outside – water can get into the electrical connections when it rains.
- We recommend that the power cable (high voltage) is a maximum length of 50m. If you want to use a longer cable, please consult an electrician.

**WARNING!** Children and people with limited physical, sensory or mental abilities or a lack of experience and knowledge should only use a ThermoBar under supervision or once they have been clearly instructed how it is safely used, and only if they clearly understand the risks associated with using a ThermoBar. Children should never be allowed to play with a ThermoBar. Children should not be allowed to clean or maintain a ThermoBar without supervision.

### Included in your delivery:

- ✓ 1 ThermoBar 30
- ✓ 1 low-voltage cable (24-volt, 2 meters, 10 meters or 20 meters) with plug
- ✓ 1 transformer, with a two-metre 230-volt cable and a regular wall plug
- ✓ 2 drain stoppers
- ✓ 2 pre-drilled wooden brackets
- ✓ 4 screws for mounting
- ✓ 1 strap
- ✓ 2 supports

### Assembly and installation

1. ThermoBar 30 is designed to be installed in the corner of a stable stall or box. The trough can be used all year round, even in the summer as it will help to keep water fresh and cool. If you are worried that a horse might damage the ThermoBar, simply build a protective barrier around the front.
2. Mount the pre-drilled wooden supports that the trough will rest on, one on each side of the corner. The height should be low

enough for the horse to drink from, but high enough for a bucket to fit under the trough to make emptying and cleaning easier. Mount the wooden supports with a gap of 10 -12 cm between them so there is room for the power cables.

3. The trough is held in place with a strap that is pulled through the two plastic loops. Put the plastic loops about half way and 2cm outside the trough so it can be easily removed if needed.

4. The transformer with its 230-volt cable is placed out of reach of the horses. Place the transformer at least one metre above the ground on a post or wall. The transformer can be outside unprotected as the cables are underneath and pointing downwards, but it is still a good idea to build a small protective roof over it to keep most rain out. NB! Don't build a sealed box around the transformer or put plastic around it, as it could overheat.

5. Insert the low-voltage cable's plug into the socket underneath the trough. The cable under the trough should be about 30cm long. Hold the plug (not the cable) when you pull it out, so it doesn't get damaged.

### Care

- It is important to protect the ThermoBar from your horses – make sure they cannot stand in it or damage the inner base with their hooves. If the trough is empty and it is cold outside, this can cause damage to the thermostat.
- The guarantee is not valid for ThermoBars that have evidence of hoof damage inside.
- The best way of avoiding this is to make sure the trough always has water in it when it is out in the paddock.
- It is best if the ThermoBar is not connected to electricity if it is standing empty for a longer period as the thermostat will last for longer.

Use a soft dish brush or cloth to clean the ThermoBar. Don't use anything that could damage the surface of the plastic and use a

### Electricity safety.

ThermoBar 30 has a LED light in the corner that will light up when power is reaching the trough. It doesn't show if the thermostat has switched the foil heater on or off, however. If the light is not on, power is not reaching the trough. One possibility that the fuse in the transformer has blown. The transformer for ThermoBar 30 uses a 400mA fuse that is positioned under the cover. These fuses are available at most hardware stores and gas stations. See our website for a link to the YouTube film on how to change this fuse. The voltage to the ThermoBar is low, 24 volts, and completely safe. However, the current is quite high, 6-8 ampere. This

6. Connect the 230-volt cable to a regular, earthed power source. If the cable is too short and you need to splice two cables together, make sure any joins are water proof. Use a residual-current circuit breaker in the wall socket if the system doesn't have a central residual-current circuit breaker.

7. Fill the trough with water.

8. Don't let the ThermoBar stand empty in the cold as this will cause the thermostat to activate the foil heater unnecessarily. This will not damage the trough but it can cause the plastic to bulge and buckle a little, and is a waste of energy.

gentle detergent, we recommend Hippofix. Our carefully selected plastic is tough, can handle cold temperatures and is 4-7mm thick. The plastic is soft which means that bulges can form in the base or inside walls, but this is normal and doesn't affect the trough's functionality. The thermostat that regulates the water temperature is in the middle of the inside base of the trough. If it is cold and the trough is empty, the thermostat will switch the heating system on and heat up the trough unnecessarily. As long as the trough is empty there is nothing to worry about, but it is important that nothing but water is ever put in a ThermoBar. Never put hay, plastic or any other material in the trough. Do NOT use a ThermoBar to soak or heat feed!

means that you cannot use a really long low-voltage cable between the transformer and the ThermoBar. If you do, the voltage will be too low when it reaches the ThermoBar. Our standard cable delivered with your ThermoBar is 2 metres but you can change this to 10 metres or 20 metres. NB! Avoid using a longer cable than you need as this will lead to a lower water temperature and higher energy use. If you are going to lengthen a 24-volt cable, you must get an electrician to do it. NB! NEVER join with a plug intended for a 230 volt cable!

Normally, each trough will have its own transformer. In stables with several box

stalls you can use a larger transformer for all your troughs. You can then install a distributor above each trough and use a bigger cable. Then, each trough's low-voltage cable can be connected to this. Make sure you get an electrician to do the stop working, plus it is easier to sell the troughs if they come with individual transformers.

work but it could be legal and safe to fix the 24-volt cable by yourself if you know what you are doing. Make sure you know the laws regarding this in your country. The disadvantage of this system is that if the transformer breaks down, all the troughs will

Our products are recyclable, and this is important for ThermoBars sustainability work. When it has lived its life, recycle your ThermoBar as plastic.

If you have any questions or need any advice, please do not hesitate to contact us at [thermobar.se](http://thermobar.se).