

ThermoBar 65 ECO – 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 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 the 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.
- The recommended distance between the ThermoBar and transformer is maximum 40 metres.

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 inner trough, 65 litres, and 1 outer trough, 65 litres.
- 1 low-voltage cable (24 volt) with flat pin plugs
- 1 transformer, with a two-metre 230-volt cable and a regular wall plug.

Assembly and installation

1. Place the ThermoBar up against a fence post or wall on an even surface. Position the ThermoBar so that water won't pool around it but run easily away when emptying or cleaning.
2. For increased stability, you can strap it to a

post or the like so it can't slide or be bumped away.

3. Horses will often try to scrape out water from a dry trough with their front hooves. Make sure that horses cannot reach into the trough with their hooves by raising it or protecting it with a plank of

wood.

4. Only the ThermoBar and the low-voltage cable should be inside the horses' enclosure.

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

6. The 24-volt cable with a flat pin plug at the end is connected with the ThermoBar. The flat pin connectors are inserted into the short cable that leads to the transformer. (If they are hard to

connect, use a little grease or Vaseline). It doesn't matter which flat pin goes in which slot.

7. The transformer is connected with a regular 230-volt cable to a regular wall socket that is earthed. We recommend using a cable that is a maximum length of 50 metres. Consult a licenced electrician if you need a longer cable. Make sure any joins are waterproof. Use a residual-current circuit breaker in the wall socket if the system doesn't have a central residual-current circuit breaker.

9. Fill the trough with water.

10. Don't let the ThermoBar stand empty in the cold as this will cause the thermostat to turn the foil heater on 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.

Water Temperature

If you fill your ThermoBar with zero-degree water, the heated water will not reach the surface until the water at the bottom of the trough has reached about 4°C. During this time, if the air temperature is very cold, a film of ice may form on the surface of the water. For this reason, avoid filling your ThermoBar with ice-cold water in low temperatures. Add a bucket of hot water to the trough when it is really cold.

Your ThermoBar is temperature regulated; the thermostat will automatically turn the foil heater off once the water has reached a good temperature. If you take your horses inside overnight and it is very cold, it is a good idea to fill the trough in the evening and then cover it with an insulated lid. Horses like to have a warm drink in the mornings, just like we do.

Electricity safety

- On the top of the ThermoBar 65 ECO there is a LED light that lights up when power is connected to the trough. It doesn't show if the thermostat has switched the foil heater on or off, however.
- If the light isn't on, one of several things could be wrong. Start by checking the fuse for the main power supply. If the residual-current circuit breaker has blown or if you can't find the problem, you should contact an electrician.

It is also possible that the fuse in the transformer has blown. On our website you will find a detailed film on how to check and change the transformer's fuse. The fuse is a 500 mA slow blow glass tube fuse. From November 2016, we have included an extra fuse in your delivery. It is in a small bag in the transformer. Otherwise you can easily buy one from any hardware store. Start

by disconnecting the transformer from the power source. Unscrew the two screws on the front of the transformer so you can take the lid off and open it up. The fuse is located to the left in a fuse holder. Take out the fuse holder and carefully remove the fuse. Replace it with a new fuse and put the holder back in place. Replace the lid and screws.

- The electrical current powering the ThermoBar is low, 24 volts, and completely safe. However, the current is quite high, 6-8 ampere. Longer low-voltage cables can be ordered from ThermoBar.se, but try to avoid using a longer cable than you need as the longer the cable, the lower the water temperature in the trough and the greater the amount of energy that is used.
- The recommended distance between the ThermoBar and transformer is a maximum of 40 metres.

Care

- It is important to protect the ThermoBar from

your horses – make sure they cannot stand in it or damage the inside with their hooves.

- 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.

Accessories

ThermoBar's strap, 250 cm, is a good length and is easy to work with even in snow and really cold temperatures. ThermoBar 65 ECO has an insulated lid available that can be used to save energy if the animals are inside overnight. A 24-volt heated hose ECO and Rojo float valve, that you assemble and mount on the trough yourself,

Use a dish brush, soft cloth or sponge to clean it out. Avoid scratching the surface of the trough and use a good-quality gentle cleaning agent. 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.

make automatic refilling possible in the winter. In the summer, the float valve works well with a regular summer hose. Extra plugs and covers are included in the delivery with the heated hose so you can plug up the hole in the trough's wall when the refilling system is not being used. These are also sold separately.

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.