



User Manual
Heat Pump Cart
Year 2021



Application

The Heat Pump Cart is developed for practical use when carrying out installations - for when the unit has to be transported from the pallet to the place of installation.

With strong construction, solid wheels, and impact-resistant powder coating, the Heat Pump Cart is ready for hard wear, daily – relieving you of said task.

The cart is designed to help with the transport of units but it can also do lifts.

The Heat Pump Cart can lift units up to 250 kg. This number must not be exceeded. The chain drive function can lift the subject up to 100 cm. In addition, transport to and from the workplace has been considered, therefore the Heat Pump Cart is designed to an approximate height of 160 cm, making it possible to transport via car in a vertical position, or lying down.

We recommend that the Heat Pump Cart is used carefully when utilizing the lift function as there may be a risk of tilting.

Transporting units with the Heat Pump Cart can be done, either by tipping it backwards so the weight rests on the 4 big, solid wheels, or by driving on all 4 wheels in the oblique position. If you drive with a heat pump of 200-250 kg, it's a good idea to lift 25 cm before driving. This way there is balance and the cart can stand on its own.

The Heat Pump Cart is equipped with stepless electric propulsion. Meaning, it is run without being pushed - simply pull using your thumb on the accelerator located on the right side of the handle. Push the accelerator forward for propulsion; pull the accelerator back for reversal.

The Heat Pump Cart is equipped with a grey electrical box in which a socket is located for charging, a battery indicator, and a speed controller.

Use the speed controller with caution and do not drive too fast.

Electric Propulsion

2 of the 4 wheels turn with an electric scooter motor.

On the motor is a small iron handle/gear lever that can be pushed up and down. This puts the engine in **neutral**. When it's put in neutral, the battery indicator will blink

and it can't be driven with electric propulsion - only manually. NOTE: When the gear lever is set in neutral, shut off the engine by turning the key on the gray box a quarter of a turn, without force. Then the battery indicator will be turned off. If you do not turn it off, the propulsion will have electrical resistance and will be difficult to push. If the battery indicator is flashing, the cart is in neutral. Meaning, the cart can roll. If you want to drive with electric propulsion again, push the gear lever and remember to switch it off and on again beforehand. Otherwise, the battery indicator will flash.

Charging

The Heat Pump Cart requires regular charging after use, but can typically run 3,5 km with 12 km/h on a single charge.

Charging is done by inserting the plug into the grey electrical box, slowly and precisely, as it can only be done in a certain way. We will not accept responsibility if there are any signs of damage to the plug.

The charger charges at 24 volts.

Keep an eye on the battery indicator and start charging before the LEDs turn red. If this does not happen and the batteries fall below a certain number of AMP, the charger can not get the batteries running and the Heat Pump Cart can be tricky to drive.

It must charge for at least 7 hours when there are only 3 or 4 LEDs lit. This can be done day to day or over the weekend.

The cart can also be charged if it is in the workshop, not being used.

The batteries can be damaged by running out of power several times.

Running out of battery!!!! A charger for a car that can recharge the battery from completely empty should be used. It can not be sold with a charger for safety reasons. Give each battery one hour charge and reconnect the charger for at least 7 hours.

Avoid overload.

The maximum load of 250 kg must not be exceeded. Remember that the Heat Pump Cart is intended for evenly distributed loads. If 250 kg is exceeded, the cart is loaded incorrectly, or has hit a curb while carrying a load, the warranty may become void.

In the event of changes to the construction, the warranty is void.

Avoid skewed loads.

The unit should be placed in the middle of the Heat Pump Cart.

The unit should be secured so that it does not tip over when the Heat Pump Cart is lifted, driven, or in the raised position. Eye bolts are mounted on the side for attaching the unit.

If the forks of the trolley are subjected to point load on the outside and one-sided, there is a risk that it will bend.

Safety

There are 2 eye bolts mounted on the Heat Pump Cart that are used to clamp the unit. These should be used safely.

Make sure there is space around you when driving.

Do not drive if you are unsure if there is space or if someone is standing too close to the Heat Pump Cart.

When you release, the accelerator brakes and stops the Heat Pump Cart, requiring active supervision.

An even surface is recommended.

Your heat pumps may be heavy and it is recommended that you drive carefully.

Uneven terrain, holes in the grass, etc., will mean that heavy aggregates will be able to tip the cart over.

Avoid over tightening the chain drive when it has reached its maximum height. Check the chain after transport - make sure it is tight and free. If the chain is damaged it must be replaced.

Before mounting, check whether the hoist works. The chain drive can be locked by the sled moving during transport or by turning the crank counterclockwise when the sled is completely at the bottom.

If the chain drive is locked, you can place a light weight on the fork, and then give the crank a pat with the hand, clockwise. Give it a pat just where the chain drive begins to take over.

It is forbidden to stand on, lie down on, or have body parts under the lift.

Lubrication.

The Heat Pump Cart does not require lubrication under normal operating conditions.

Inspection

We recommend an annual inspection of the Heat Pump Cart. Call us and we'll discuss the price.

Cleaning.

When cleaning the Heat Pump Cart, there must be normal maintenance construction so that it is kept intact.

Maintenance.

If you have questions about the use and maintenance of the Heat Pump Cart, you are always welcome to contact us.

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Hereby declare that,

Product group: Universal Liften

Year of manufacture: 2021/2022

Serial no: _____

Is in accordance with the Danish Working Environment Authority

Provision (Directive), and with national legislation that implements this in Danish law

By (Arbejdstilsynets bekg. 612/2008,kap.3).

Name: Jan Michaelsen

Position: Direktør

Firm: Spangkilde Teknik ApS

Signature_____