

## **STØRVATT POOL HEATER MANUAL**

Congratulations with the purchase of your Størvatt pool heater. You have purchased a very high quality Dutch product. The Størvatt pool heater is manufactured from Stainless steel 316L, 304 and cast iron.

**Note;** before starting to use the Størvatt pool heater read this manual carefully and store it at an easy access place near the Størvatt pool heater. This way you can always read it when necessary. We wish you many pleasant warm baths.

### **INTRODUCTION**

The Størvatt pool heater is developed for people who enjoy the outdoor life, and want to combine relaxing with some active preparation. When you have read the manual you might think that it is not very easy to use the Størvatt pool heater. However, you will learn that it is much simpler than it seems and you will get the right feeling to operate the Størvatt pool heater and heat your pool very fast.

### **IMPORTANT SAFETY INSTRUCTIONS!**

- Read the full instruction before using the Størvatt pool heater
- The Størvatt pool heater may never be used without water circulation
- When the Størvatt pool heater is still warm, and water circulation is stopped, you need to disconnect the Størvatt pool heater directly. This needs to be done at both the water flow to and from the Størvatt pool heater. Otherwise the water might boil and build up steam, which can lead to dangerous situations. The water flow from the Størvatt pool heater needs to be disconnected because there is a possibility of creating a vacuum, which will keep the water flow to the Størvatt pool heater. The upper connections piece is the water from the Størvatt pool heater and the bottom connection piece is the water flow to the Størvatt pool heater, see image on the other side.
- Never block the water flow to or from the Størvatt pool heater. This can create dangerous situations
- BE CAREFULL WITH CHILDREN. Keep children and pets away from the open fire. Never leave the Størvatt pool heater burning without supervision. When the Størvatt pool heater is used normally the outside will only feel warm and will not get very hot, this part of the Størvatt pool heater is not dangerous. The chimney and door will get very hot. Also it is possible that small burning parts escape through the chimney and/or the fire opening on the front of the Størvatt pool heater. Pay attention to other dangerous situations which might occur. Mount a spark-catcher on the chimney when
- Flammable objects are near the Størvatt pool heater. Pay extra attention in dry periods. The government might even forbid open fire. Always and only use well dried wood which is not treated with paint or other chemicals.
- Only use the Størvatt pool heater outdoor.

## **INSTALLATION**

Installation of the Størvatt pool heater just takes a few steps;  
The Størvatt pool heater consists of:

- 1) Stainless steel base
- 2) Cast iron fire plate
- 3) The stainless steel shell "The Størvatt pool heater"
- 4) Chimney
- 5) Chimney hat

Options:

- 1) Pressure valve
- 2) Extra meter chimney

How to install the Størvatt pool heater:

1. Put the Stainless steel base where you want to install the Størvatt pool heater. At best this is sand or concrete terrace base. Do not put the Størvatt pool heater on a wooden deck or any other non heat resistant material, because the base will get so hot it will affect the ground
2. Place the cast iron fire plate in the circle
3. Put the Størvatt pool heater on top of the base
4. Place the chimney and chimney hat on top.

How to install the options:

1. Turn the pressure valve on the opening, or close this opening with a 1"cap
2. The first meter chimney can be placed without supports. When in doubt, in case of winds, storm or anything else, give extra support to the chimney.

Note: for all wire connections to connect to the  $\frac{3}{4}$ " of the pool heater use tape or other material to make it 100% watertight.

## **FREQUENTLY ASKED QUESTIONS:**

•Can I use chlorine water in the Størvatt pool heater?

Yes, the Størvatt pool heater is made of Stainless steel 316L and is specially developed for swimming pool water.

•Does the Størvatt pool heater need to be connected with a separate pump?

No, it is possible to connect the Størvatt pool heater directly to your pool using the pump and drain of the pool.

•How much smoke is there when burning the Størvatt pool heater?

This depends on the quality of your fire. When burning dry wood with sufficient oxygen reaching the fire, there is hardly any smoke. When a fire starts and dies there will always be some smoke.

•What is the advantage of using the Størvatt pool heater in a hot tub, compared to a system with a stove in the water

There are several advantages - the Størvatt pool heater does not use any space in the tub and therefore you have more useable space in the tub. This means either you do need to have such a large tub, or more people can enjoy using the hot tub.

Also you can start burning your fire as soon as the water has reached the Størvatt pool heater- saving you time. In addition, you can easily use the Størvatt pool heater to heat your swimming pool, so it is multifunctional.

•How do you get the most return of energy from the Størvatt pool heater?

The more intense your fire is, the faster the water will be heated. However, the highest return of energy is with a constant fire. The water flow is also very important. The faster the water flow through the Størvatt pool heater, the more heat will be transferred to the water, instead of to the outside of the Størvatt pool heater. However, if the water flow is too strong, the water may cool the fire. With a flow of 1 liter/second the Størvatt pool heater can heat the water by 6-8°C.

•What is the maximum temperature of the water?

In theory it is possible to boil the water. The Størvatt pool heater heats the water that gets into the Størvatt pool heater; however, in reality it would only be possible to boil water when the water entering the Størvatt pool heater is already at a temperature of 90 °C.

It is important to always follow the instructions for using the Størvatt pool heater.

•Is the Størvatt pool heater more suited for swimming pools of hottubs?

The Størvatt pool heater is designed to be used in both. It is even possible to combine your hot tub with your swimming pool. This enables you to use your swimming pool longer. Once you have warmed yourself in the hot tub, it is wonderful to cool down in the swimming pool afterwards.

• Doesn't burning wood have a negative influence on the environment?

It is better to burn wood (especially well dried wood) rather than to use resources such as oil or gas. The CO<sub>2</sub> that is released when burning a wood fire has a short cycle. Resources such as oil and gas have a long CO<sub>2</sub>-cycle. When burning well dried wood the smoke is 100% degradable; trees use these fumes to produce Oxygen. This way wood is an environmentally friendly resource.

• What is the right temperature for a hottub?

In general an ideal bathing temperature is between 38 and 40°C. However there are people who prefer a colder or warmer bath. Please be aware that a bath over 40°C can be dangerous. The human body needs to be able to lose some of its heat. That is why good hot tubs have seats at various levels. If your body gets too warm, dizziness may occur.

- My Størvatt pool heater seems to leak?

All Størvatt pool heaters are tested before delivery. What seems like leaking probably is condensation. By intensifying the fire, the condensation will disappear.

## **WARRANTY**

We advise you to use your Størvatt pool heater with care, and follow the manual. Then you will enjoy the Størvatt pool heater very long and with a lot of pleasure.

Your Størvatt pool heater has one year warranty, from the date of purchase, on manufacturing- and material errors.

#### Extended warranty

When you register your Størvatt pool heater through: [info@storvatt.com](mailto:info@storvatt.com) the warranty is extended from 1 to 2 years. To use the extended warranty, please send an e-mail with your contact data, and a copy of your purchase receipt to us, within 2 months after your purchase.

In each individual case we will decide whether the warranty applies. In order to be entitled to warranty the Størvatt pool heater needs to be offered to the Størvatt pool heater

Dealer where it has been purchased, together with the purchase receipt. The transport charges (including insurance) are at cost of the Størvatt pool heater owner.

All other claims, of any nature, are not covered by the warranty. The warranty is not heritable.

The warranty expires when; the instructions are not followed, the Størvatt pool heater is not properly used or installed, changes have been made to the Størvatt pool heater, the Størvatt pool heater is used with unsuited

materials. The warranty also expires when the Størvatt pool heater is used with other intentions than it is designed for, or when repairs have been made by others than Størvatt pool heater.

We do accept responsibility for damages, consequences, costs and or losses which have occurred by using the Størvatt pool heater.

Neither are we liable for possible damages of sequel damage.

#### **CONTACT:**

As Størvatt pool heater owner we prefer to update you about new products, possibilities etc. When you prefer that we keep you informed, than please send us an e-mail with your contact data.

#### **YOUR HELP**

##### Improving the Størvatt pool heater

To make future improvements to the Størvatt pool heater we very much would like to receive your experience and suggestions. This information can help our product development.

##### Promotion

We very much would like to receive a Photo and/or testimonial of your Størvatt pool heater installation. With this we can inform other interested customers of the Størvatt pool heater.

Again, we wish you a lot of extended swimming time thanks to the Størvatt pool heater.

Størvatt pool heater  
website; [www.storvatt.com](http://www.storvatt.com)