

**Cushion Heating**  
Type HG08/73K



## **Instructions** for assembly and operation

Keep in a safe place for future reference



## **Manufacturer's address**

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## **Details about operating instructions document**

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**Document number: HG0873K\_DOK**

**Version: 1.1**

**Date created: 16.09.08**

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# Contents

<b>1. Advice for users.....</b>	<b>4</b>
1.1. Purpose of document.....	4
<b>2. General safety precautions.....</b>	<b>4</b>
2.1. Safety precautions.....	4
2.2. Intended use.....	4
2.3. Initial start-up .....	5
2.4. Obligations of the operator.....	5
<b>3. Product description.....</b>	<b>5</b>
3.1. General description of product.....	5
3.2. Mode of operation.....	5
3.3. Safety and control device.....	5
3.4. Technical specifications.....	5
<b>4. Transport and installation.....</b>	<b>6</b>
4.1. Delivery of product.....	6
4.2. Note on transport and storage.....	6
4.3. Preparations for assembly.....	6
4.4. Fitting the Thermoplush cushion.....	6
4.5. Connection cables.....	7
4.6. Power supply and installation.....	7
4.6.1. Carrying out electrical connection.....	7
4.6.2. Procedure.....	7
<b>5. Initial start-up .....</b>	<b>8</b>
5.1. Initial operation.....	8
5.2. Final acceptance.....	8
5.3. Handover.....	8
<b>6. Service and maintenance.....</b>	<b>8</b>
6.1. Maintenance.....	8
6.2. Faults.....	8
<b>7. Disposal.....</b>	<b>8</b>
<b>8. Disclaimer of liability.....</b>	<b>8</b>
<b>Appendix I - Final acceptance report.....</b>	<b>9</b>
<b>Appendix II - Instructions for care.....</b>	<b>10</b>



*We are delighted that you have chosen the Thermoplush cushion heating system.  
Only top quality materials are used to manufacture the Thermoplush cushion heating so that the  
Thermoplush cushion heating will provide you with many years of pleasant warmth  
If handled correctly.*

The following instructions are intended for your safety and should therefore be observed exactly.

The Thermoplush cushion heating has been inspected with regards to safety. The built-in heating conforms to the EMC and low voltage guidelines. Compliance has been demonstrated and the relevant documents are kept at the manufacturer's.

As the user, you must observe these operating instructions in order to maintain this state of compliance and to ensure risk-free operation.

## **1. Advice for users**

### **1.1. Purpose of document**

- This document describes the assembly, installation and maintenance of Thermoplush HG08/73K cushion heating.
- It provides important advice for using Thermoplush cushion heating in accordance with safety regulations.

## **2. General safety precautions**

### **2.1. Safety precautions**

Explanation of symbols and notices attached to the product:



**“Do not stick needles into this”**



**“Do not use if folded or rolled up”**

**Note: “Do not use if wet”** - the heated cushions may not be used if wet.

### **2.2. Intended use:**

- The HG08/73K cushion heating is a heating for cushion runners and is only to be used as pew cushion heating inside churches.
- The pew cushion heating may not be used:
  - o in damp and wet rooms, for the purpose of defrosting or similar, to heat liquids, in explosion-proof areas, if the cushion runner heating becomes too deformed through incorrect installation, as a foot warmer or in medical/therapeutic areas.
- The cushion heating is designed for 230V/50Hz. Operation at different rated values than those given is not permitted.
- Do not store any objects that insulate heat on the cushion heating permanently.
- Residual current circuit-breaker (30mA tripping current) is mandatory. (Personal protection)
- This device is not intended to be used by individuals (including children) with restricted physical, sensory or mental abilities or who lack experience and/or knowledge, unless they are supervised by a person who is responsible for their safety or they are given instructions by such a person as to how the device is to be used. Children should be supervised in order to prevent them playing with the device.



Furthermore, the manufacturer can only guarantee proper functioning if installation is performed in accordance with the project plans.

Installation work may only be carried out by qualified and authorised persons in conformance with the local electricity supply regulations.

### 2.3. Start-up

- Only use when laid flat. Do not fold or bend.
- **Please observe our technical documents / circuit diagrams and guidelines!**

### 2.4. Obligations of the operator

- The operator undertakes to inspect the upstream safety devices at regular intervals.
- The state of the cushion heating should be checked, for instance at intervals for regular cleaning, to make sure it is in proper condition (visual inspection).
- If it can be assumed that safe operation is no longer possible, the cushion heating should not be used any longer.
- We recommend posting an information sheet, which is included in the scope of supply, in the entrance to the church (bulletin board).

## 3. Product description

### 3.1. General description

The quality cushions have carbon surface heating elements of the TVC model series 233073 - 73W/rm/230V/50Hz.

### 3.2. Mode of operation

The Thermoplush cushion heats up once the operational voltage of 230V is applied evenly over the entire surface. The surface temperature of the cushions is regulated by special control units.

### 3.3. Safety and control devices

Important! The cushion heating may only be connected with a suitable control and power unit by authorised electricians.

**Connecting leads: two-terminal;** (totally insulated / safety class II)

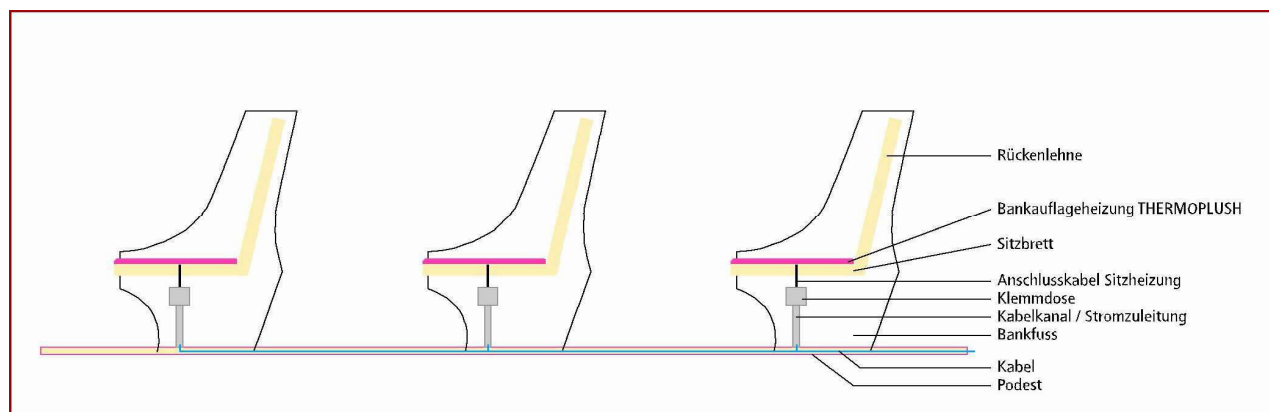
**Residual current circuit-breaker 30mA is mandatory.** (Personal protection)

### 3.4. Technical specifications

Type	HG08/73K
Operational voltage	230V / 50 Hz
Output	73W / rm at 230V 50 Hz
Safety class	Class II insulated
Fire protection class	B1 acc. to DIN 4102

### The heating

Description of material / assembly diagram:



## 4. Transport and installation

### 4.1. Delivery of product

The product is delivered in appropriate packing units depending to the project.

### 4.2. Note on transport and storage

- Interim storage should be in dry rooms only

### 4.3. Preparations for assembly

- In order for a qualified electrician to be able to connect the Thermoplush cushion heating, an 8mm dia. hole should be drilled, for the opening for the cable, through the pew on the side with the prepared connection box. (See fig. 1.1).

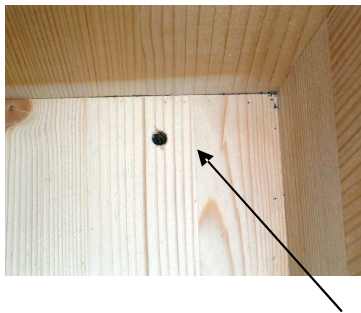


Fig. 1.1: empty pew with drill hole for feeding cable



Fig. 1.2: empty pew

- The upper pew surfaces must be cleaned before assembly. There should be no objects or foreign bodies on the pew. (See fig. 1.2).
- The Thermoplush cushion heating may not be placed on damp or wet surfaces.

### 4.4. Fitting the Thermoplush cushion:

Thermoplush cushions are made to measure according to requirements for each project and are labelled at the factory according to a parts list with measurements using letters and numbers. This means each Thermoplush cushion can be allocated to the correct pew without any difficulty using the label (e.g. A1 = 1<sup>st</sup> pew in row A) in accordance with the enclosed parts list.

Remove Thermoplush cushion from the packaging and place it flat on the correct pew with the velour face upwards and the connecting side (outlet for cable) towards the opening for the cable. (See fig. 2)



Fig. 2: fitting the Thermoplush cushion using the parts list





#### 4.5. Connection cables

Feed the connection cable for the Thermoplush cushion through the hole until it reaches the connection box. In order to take any strain off the Thermoplush cushion connecting cable, make a small loop just in front of the drilled hole. (See fig. 3)



Fig. 3: cushion in raised position with loop visible

The loop should be big enough to allow the cushion heating to be lifted up in order to clean the pew. (See fig. 4)



Fig. 4: raised cushion on back of pew

#### 4.6. Power supply and installation

##### 4.6.1. Electrical connection

The electrical supply connection for the Thermoplush heated cushion is via the connection box, which is installed under the pew beforehand. Connect in compliance with the current standards and guidelines that apply at the place of installation and in accordance with the wiring diagram.

##### 4.6.2. Procedure

To prevent the supply lead from being pulled out of the heated cushion, you should make sure that there is a fixture on the underside of the pew to relieve the strain on the wire. (See fig. 5)



Fig. 5: attaching fixture to relieve strain



- Feed lead into connection box through the threaded fitting
- Fit supply leads with appropriate wire end sleeves
- Connect the supply lead to the right terminals in accordance with the wiring diagram

Note! Only open the connection box, which should conform to standards, using appropriate tools.

## 5. Initial start-up

### 5.1. Initial start-up

Initial start-up requires the following steps:

- Check to ensure all clamp connections for the Thermoplush cushion heating are complete.
- Check working order of the control and adjustment equipment when not under load (without heated cushion).
- Run initial start-up of the entire system and check working order of all connected heated cushions (test run)

**Note!** Refer to the operating instructions für Thermoplush heating control unit for start-up of the Thermoplush cushion heating

### 5.2. Final acceptance

Procedure according to final acceptance report (refer to appendix I)

### 5.3. Handover

The completed final acceptance report must be signed by the customer and inspector (authorised person). One copy of the report must be given to the supplier of the Thermoplush cushion heating.

## 6. Service and maintenance

### 6.1. Maintenance

Thermoplush cushion heating requires no maintenance other than occasional cleaning. For cleaning the cushions (refer to appendix II "Instructions for care")

### 6.2. Faults

The Thermoplush cushion heating has been designed to provide many years of continuous use. Nonetheless problems may occur of course. Refer to the operating instructions for the Thermoplush heating control unit for the procedure for troubleshooting.

**IMPORTANT!** Only authorised staff are allowed to carry out work on the electrical installation and the mains supply should be disconnected for this (main fuse for heating).

## 7. Disposal

Dispose of the cushion heating in accordance with local regulations.

## 8. Disclaimer of liability

If installation is not carried out correctly this may cause damage to property and may pose a danger to people as a result.

The manufacturer assumes no responsibility or liability for loss or damage, which result from faulty installation, improper operation and incorrect use and maintenance or are connected to this in any way.

Similarly we undertake no responsibility for violations of patents or violations of other rights of third parties, which ensue from use of this product.

The manufacturer reserves the right to make changes with regard to the product, technical specifications or the instructions for assembly and for operation without prior notice.





## Appendix I

<b>Final acceptance report for Thermoplush cushion heating</b>	
<b>Project:</b>	
<b>Supplier:</b>	
<b>Electricians responsible for system as far as the connection box on the pew at the customer's:</b>	
<b>Thermoplush cushion heating</b>	
<b>delivered on:</b>	<b>fitted and adjusted on:</b>
<b>assembled and connected on:</b>	<b>by:</b>
<b>Electrotechnical specifications:</b>	
<b>Measured power input of all heating elements in kW:</b>	
<b>Type of controller:</b>	<b>Number of heating zones:</b>
<b>Contact separation of cushion heating:</b>	
<b>Start-up / test operation</b>	
<b>Start-up by company:</b>	
<b>Adjustment of controller as percentage in test operation</b>	<b>Warm-up time set in minutes</b>
<b>Remark:</b>	
<b>Final acceptance:</b>	
<b>The system (Thermoplush heated cushions and control unit) has been installed, put into operation and inspected according to the relevant instructions for assembly and operation and has been approved.</b>	
<b>Inspector:</b>	<b>Customer:</b>
<b>Date / signature:</b>	<b>Date / signature:</b>



## Appendix II

### Instructions for caring for upholstery

The upholstery should be cleaned with a vacuum cleaner or brush. Normal soiling is treated with soapy water. Adhesion foam and fabric should be moistened to clean.

<b>Treatment no. 1</b>	Vacuum or brush off
<b>Treatment no. 2</b>	Remove loose dirt, scrape off dried substances carefully with a spoon or remove with vacuum cleaner
<b>Treatment no. 3</b>	Use a cloth moistened with lukewarm water to clean soiling and dab off afterwards
<b>Treatment no. 4</b>	Use a cloth moistened with soapy water or mild detergent (foam cleaner) to loosen dirt and then wipe with a clean damp cloth.

#### **Important!**

Apply any cleaning agents indirectly using a cloth, apart from “Havener Candle Wax Remover”

#### **After each treatment of stains**

Wipe the spot off afterwards with a clean, damp cloth.

**IMPORTANT!** Do not resume use of the heated cushions until they have dried completely.

#### **Type of soiling:**

<b>Water-soluble stains</b>	Treatment no. 3 – clean any soiling with lukewarm soapy water and dab off
<b>Fatty or oily stains</b>	Treatment no. 4 – loosen any dirt with soap suds or mild detergent (foam cleaner) and then treat with a clean damp cloth, absorb any moisture with paper towels.
<b>Stubborn stains like:</b>	
<b>All-purpose glue</b>	Acetone and treatment no. 4
<b>Rust, resin</b>	Kerosene and treatment no. 4
<b>Wall paint</b>	Treatment no. 4 and then treat with solvent
<b>Flower stain</b>	Spirit and treatment no. 4
<b>Cooking fat</b>	Treatment no. 4 and then dab with spirit
<b>Oil-based paint</b>	Kerosene and remove with solvent
<b>Urine</b>	Treatment no. 4 and then treat with vinegar and water solution
<b>Stain from faeces</b>	Treatment no. 4 and then treat with ammonia solution
<b>Vomit</b>	Treatment no. 4 and then treat with ammonia solution
<b>Candle wax, chewing gum, ball point pen, grease, ink, felt pen, glue, shoe polish and extreme stains</b>	with „Havener Wax Remover“

