

WEIRICH

WEIRICH HC3 Water Heater/Cooler

CE 0197





Of course!

A heater/cooler needs an **easy, rapid and precise temperature control**. This is the most important requirement to a heater/cooler during extracorporeal circulation.

**Good if it can do more –
or even less!**



You do your job, we provide the suitable **heater/cooler!**

No contamination of the patient

No aerosols in the operating theatre

No disinfection of the water system

No waste heat

No deep cleansing

No noise pollution

Let's just leave out everything that is unnecessary!

No Contamination

With the HC3 we are moving into a future without contamination. No disinfection and decalcification measures are required. No risk to the patient in the operating theatre and no endangerment of staff during recurring disinfection with chemical detergents as with conventional devices.

No Aerosols

By refraining from air-conditioning and by using a closed water system we prevent the spread of aerosols.

No Deep Cleansing

Decontamination of the heater/cooler is a thing of the past. Disinfection plans, protective gear with respiratory protection for the staff at each cleansing process are no longer required.

No Disinfection

Our HC3 system uses a complete disposable set including tanks and tubing

that are simply replaced after each use. It only needs to be filled with fresh drinking water and ice.

No Waste Heat

No waste heat of the device to the environment. By not using a cooling device, we also do not generate any heat that would have to be removed from the device by a ventilator.

Soundless

Without use of a cooling device, the system is extremely quiet in operation.



HC3 leads the way to a future without contamination.

No measures required for the disinfection and decalcification of the water system.

No risk to the patient in the operating theatre and no endangerment of staff during the usual recurring disinfection process of other heater/coolers.

Let's add the things that make sense!

Volume Flow

By use of 3-roller-pumps, the pump capacity of both water circuits can be adjusted continuously from 1 to 15 l/min depending on the size of the heat exchanger.

These 3-roller-pumps, one of our new developments, enable us to pump the water into the heat exchanger and then suck the water from the heat exchanger with only one pump. High water pressures are avoided.

Hygiene Concept

In order to exclude a possible formation and transfer of germs when operating a heater/cooler, we developed a device where all water leading components are exchanged after each surgery.

Before each surgery a plastic tank with 3 chambers and a pre-connected tubing

set, connected to the heat exchangers, is placed into the device.

All pumps are roller pumps and do not, likewise the sensors, get in any contact with the water. The tanks are filled with filtered drinking water and ice. The De-airing system functions automatically.

After surgery water, rest ice, tank and tubing set are removed and disposed of.

The device is made of stainless steel and only requires a cleaning of the surfaces.

We present:
The new HC3 by **WEIRICH**

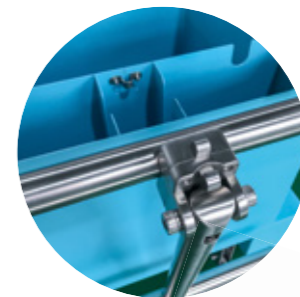


Two-part Unit

Because of the pull-out trolley it is easy to insert and fill the disposable tanks as well as empty and dispose of the tanks after surgery.

All tubes for the tanks are pre-connected.

Smooth-running swivel castors with foot brake facilitate the positioning of the device.



Pull-out
*The smooth-running trolley with
fold-out handle*



Two Water Circuits

The HC3 runs with two independent temperature-controlled water circuits. The pump output can also be regulated separately for both circuits. One circuit supplies the oxygenator heat exchanger, the other one the cardioplegia heat exchanger.



Our developed 3-roller-pumps

Two independent water circuits: In the left pump forward and backward tubing for cardioplegia, in the right pump both tubing for the oxygenator.



External Sensors

Opened pump with temperature sensor and pressure transducer.



Touch Screen

Easy operation via a user-friendly, flexible control unit with touch screen.



Pumps

One of the two pumps for adding cold water for temperature control.



100 % Sleep Mode

The HC3 doesn't need any power in sleep mode (switched off) and doesn't need to remain plugged in.

When you have to act fast!

Our disconnected HC3 can stand-by in the operating theatre for its next application with a new disposable set and is back in operation in no time. De-airing functions automatically as soon as the device is switched on.

Refilling

A refilling of the cold water tank is possible at any time, also in operation.

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