# Product information

# FRANK WET / Water Heat Exchanger

### **Description:**

The FRANK water heat exchanger has been designed specifically for generating heat from lakes, rivers or the sea.

The compact, high-efficiency heat exchanger draws the heat energy from the water and provides it to a heat pump. The FRANK water heat exchanger can just as easily be used for cooling purposes.

The FRANK heat exchanger and the protective casing are made of environmentally-friendly, high-grade polyethylene.

#### **Features:**

- Large heat exchanger surface
- Modular design with 3 module sizes
- All pipe connections are welded
- Robust protective casing
- Secure connection by means of welding connection with electro fusion fittings

# **Installation:**

The FRANK heat exchanger can be installed using anchor ballasts on the bed of the lake/river or by attaching it to jetties or quay walls. See Fig. 1+2.

#### Mode of operation:

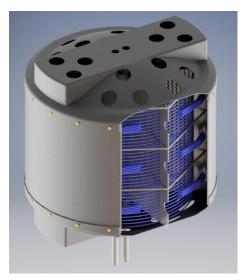
The heat exchanger is operated in conjunction with heat pumps. A water/ethylene glycol mixture containing up to 35% glycol is generally used as the heat transfer medium.

#### **Heat extraction rate:**

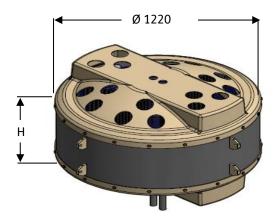
Thanks to the modular design, it can

adapted easily to the performance requirements.

The heat extraction rate is dependent on the module size (1-3 modules), the surrounding water temperature and the operating conditions. For larger performance requirements, several units can be connected to one manifold in parallel.



Inner view of a three-unit module



## Technical data:

Max. operating pressure:	3.0 bar
Max. test pressure	4.5 bar
Perm. ambient temperature	-10°C to +40°C
Supply/return pipe connection	d 40 mm, SDR 11
Min. water depth (dep. on the module size)	2,60 to 3,20 m

Module type:	Height (H):
WET 1	600 mm
WET 2	900 mm
WET 3	1200 mm

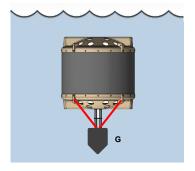


Fig. 1: Attachment with anchoring weight

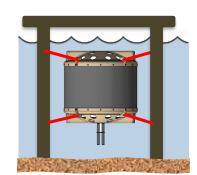


Fig. 2: Bracing under landing stage



