

# Technical Standard Specification

**Series:** Chill Plus Testing  
CHT130-x-20-W-xC-xx

**Medium:** Water/Glycol up to 130°C  
Ratio: up to 40%/60%

Temperature range -40°C up to +130°C  
Optionally (internal W-KFA): -45°C up to +130°C

max. system pressure: no system pressure up to 100°C  
2,7 bar plus pump pressure at 130°C

## Functional equipment hydraulic

- 1 or 2 independently controllable external circuits
- flow measurement by means of magnetic inductive flowmeter
- Flow control by frequency converter
- automatic temperature-dependent system closure (at 130°C variant)
- Medium-carrying lines made of stainless steel/non-ferrous metal
- flow monitoring of the internal circuit
- insulation of all medium-carrying pipes
- Robust flange connections
- Non-ferrous metal free (optional)
- Sound insulation of the housing (optional)
- Test specimen draining by means of compressed air (optional)
- flow control by means of 3-way valve (optional)



## Functional equipment electric

- Controller EATON PLC with plain text display
- Control box IP54, externally ventilated
- Heating control via solid-state relay
- Heating capacity: See order confirmation  
optional without, 6kW or 12kW
- Analoge und digitale Schnittstellen (optional)
- Modbus TCP, Profibus, Profinet, others on request

## Functional equipment refrigeration

- Cooling design according to DIN EN 378
- semi-hermetic compressor
- electronic injection valve
- Dirt trap in cooling water supply

## Cooling

**Cooling capacity (gross):** 20 kW  
**Refrigerant:** R 410 A (GWP=2088)  
**Refrigerant charge:** ca. 10 kg

**Condenser:** water cooled  
required amount of water max. 100 l/min

Capacity specified at -30°C flow temperature and max. 25°C cooling water inlet temperature with 2.5bar pressure difference. Net power depends on the design.

## Pump

	Standard	
Type:	CRI -5-8-X-FGJ-I-E	max. pressure drop
Outlet rate (max.)	140 l/min	@ 20 l/min
Pressure (max.)	5,6 bar	+20°C = 4 bar
Motor capacity	1,5 kW	-30°C = 3 bar

max. data at +20°C with water

## Dimensions / Weights / Colors

Dimensions L/W/H:	1-circuit:	1.950mm x 1.280mm x 1.735mm
	2-circuit:	2.120mm x 1.640mm x 1.955mm
Weight:	1-circuit:	1.300 kg (depend. On features)
	2-circuit:	1.550 kg (depend. On features)
Colour:	Case:	RAL 7035 light grey
	Front door:	RAL 7035 light grey

## Connections:

Circulation medium:	IT 3/4"
Cooling water:	IT 1"
Compressed air:	Hose nozzle 10mm
Power supply:	380-415V/50Hz (3L/N/PE)
	(optional) 380-415V/50Hz (3L/PE)

- Subject to technical changes; latest update: April 17th, 2024; changed by B. Nebel -

This unit complies with the European Directives. Other directives and standards are met only if they listed in the order confirmation. This technical specification represents the standard equipment. For non-standard specifications upon customer's request see quotations or O/Cs. In case of contradictory information the quotation or O/C applies.