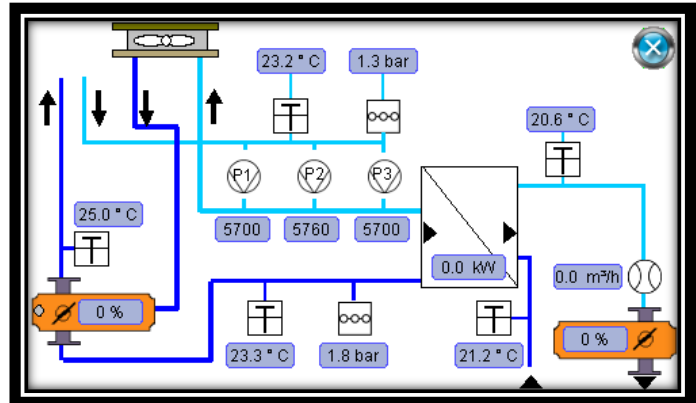


## InRackcooler iQdata Cooling



### Product description

The InRackcooler enables a safe and energy-saving cooling of directly water-cooled IT components. A particularly space-saving high-performance plate heat exchanger is used to separate the primary object cold water network from the cooling circuit. A control valve, which is arranged externally, regulates the cold water supply pipe temperature of the secondary server circuit to the desired target values. The system is particularly safe through the integration of a safety group and an expansion tank. An integrated monitoring system continuously monitors all relevant values. By means of a combination sensor, temperature and humidity as well as the corresponding dew point temperature are constantly determined. The temperature of the server circuit, which is automatically always above the dew point temperature, can be freely set. This prevents condensation from forming on the IT components and insulation on the secondary side is not necessary. In order to detect possible leaks at an early stage, the system is pressure-controlled.

#### Dimensions of IS-1 server rack

Width:	800 mm
Height:	2,200 mm
Breadth:	1,200 mm

#### Dimensions of heat exchanger plug-in unit

Width:	19", expandable to 21" with adapter
Height:	6 U
Breadth:	1,000 mm

## Technische Daten

Cooling capacity:	35 kW
Primary cold water supply pipe:	50 °C
Primary cold water return pipe:	60 °C
Primary cold water flow volume:	3,4 m³/h
Secondary cold water supply pipe:	56 °C
Secondary cold water return pipe:	63 °C
Secondary cold water flow volume:	4,5 m³/h
Temperature difference, primary / secondary:	6 K
Max. operating pressure, primary:	10 bar
Max. operating pressure, secondary:	2,5 bar
Differential pressure for IT components:	50 kPa
Primary differential pressure:	22 kPa
Number of connectable IT components:	6 pieces
Connection to IT components:	DIN 20 (3/4" AG flat sealing)
Power supply:	1 ph-230V / 50 Hz
Control voltage:	24 V
Maximum fuse rating:	16 A
Power consumption:	Max. 0,7 kW

## Communication interfaces

Interfaces:	Modbus TCP, RTU, http, BACnet IP (optional), SNMP V2 and V3
Potential-free outputs:	4 pieces (configurable)
Demand cooler:	PT 1000 and control signal valve demand cooler
Control valve control signal in the primary network:	2-10 V

## Sensors

Leakage:	Inside of the Pump box
Pressure sensors:	Secondary supply and return pipe Primary supply and return pipe
Temperature sensors:	Secondary supply and return pipe Demand cooler
Flow volume:	Heat meter in the flow of the primary circuit