

STULZ the natural choice

CyberCool

Indoor Data-Chiller

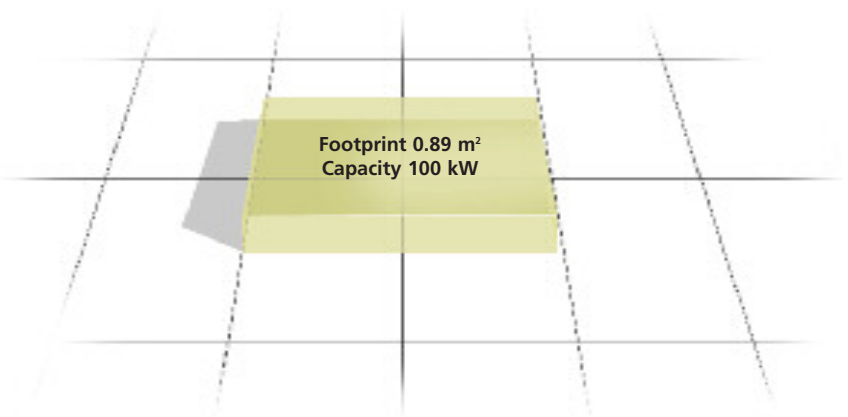
Chillers for IT and medical applications



CyberCool Indoor Data-Chiller: Compact cooling water production in the smallest possible space



Water transports heat 3,500 times better than air and more quietly as well. This is why highly sensitive technical equipment is increasingly cooled with water for IT and medicine. Specially designed for indoor use, the CyberCool Indoor Data-Chiller produces water for cooling capacities up to 100 kW in a footprint of just 0.89 m². For higher capacities up to 600 kW several equipment units can be combined to create a redundant system.





Energy-efficient and safe

CyberCool Indoor Data-Chillers are equipped with the modern STULZ C6000 control system. The C6000 provides for the installation of integrated chilled water systems operating in line with requirements with 99.999% reliability. It also functions as the interface to higher-level monitoring systems where present.

Unlike conventional chillers the CyberCool Indoor Data-Chiller uses minimum volumes of liquid and 100% water in the cooling system. This reduces the risks with any leakage and improves the level of energy efficiency by up to 10% compared with glycol solutions.

Simpler to transport, assemble and integrate

The compact CyberCool Indoor Data-Chillers fit into any lift and through standard-size doors. This means they can be easily moved within buildings and set up wherever required. Whether in data centres, plant rooms or hospital environments, its modern functional design and quiet operation make the CyberCool Indoor Data-Chiller a system that is especially easy to integrate. At 40 dBA its exceptionally low-noise condensers means the equipment is even suitable for installation in outdoor areas with stringent noise requirements.



Options for even greater safety and comfort

- » **Manometer** for comfortable monitoring of the refrigerant and water circuit
- » **Winter kit** for operation in regions with extremely low outside temperatures
- » **High-pressure centrifugal pump** for higher head pressure
- » **Standby pump** for 100% redundancy
- » **Second network supply** for emergency operation
- » **Components** (e.g. shut-off, non-return and section control valves) for optimum adjustment of the water circuit to individual hydraulic requirements

The advantages at a glance:

- » **Simple transport:** Compact design
- » **Space-saving:** A high capacity in the smallest possible space
- » **Suitable for installation anywhere:** Attractive design, silent operation
- » **Reliability:** Full redundant high-availability system 99.999%
- » **100% water:** High efficiency, low risk of leakage
- » **Simple maintenance:** All parts with front access
- » **Saves energy:** Scroll compressors for operation in line with requirements
- » **Reliable service:** Worldwide organisation
- » **Control as required:** Electronic hot-gas bypass
- » **Reliable monitoring:** Simple BMS connection via a common alarm
- » **Flexible:** Available air and water-cooled

CyberCool Indoor Data-Chiller

Technical Data

CyberCool Indoor Data-Chiller		CSI 201 A/G	CSI 401 A/G	CSI 601 A/G	CSI 801 A/G	CSI 1001 A/G
Cooling capacity*	kW	20.8	48.5	65.0	80.0	100.0
Refrigeration circuit						
Compressor type		Scroll	Scroll	Scroll	Scroll	Scroll
Number of compressors		1	1	2	2	2
Power consumption	kW	5.3	12.3	16.2	20.6	24.6
Required condensation capacity	kW	25.4	59	79	98	121
Chilled water circuit						
Chilled water flow rate	m ³ /h	3.0	7.0	9.3	11.3	13.9
Number of pumps		1	1	1	1	1
Power consumption pump	kW	0.54	1	1.08	1.44	1.77
Available head pressure	m	21	21	20	20	22
Connecting diameter	mm	35	42	54	54	54
Cooling water circuit (G type)						
Medium		Water/glycol 30%, temperature return/supply: 39 °C/45 °C				
Cooling water flow rate	m ³ /h	4.0	9.2	12.3	15.8	18.4
Connecting diameter	mm	35	54	54	54	54
Unit data						
Power consumption	kW	5.8	13.3	17.3	22	26.4
Dimensions (HxWxD)	mm	1,980 x 1,000 x 890				
Weight A/G	kg	295 / 310	365 / 380	465 / 490	480 / 505	570 / 595

* with water return/supply temperature: 18 °C/12 °C

Easy maintenance and reliable service

Every CyberCool Indoor Data-Chiller is factory-tested prior to delivery and made ready to ensure simple start-up. All maintenance work can be performed with front access; if necessary, the STULZ worldwide service organisation can help.



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