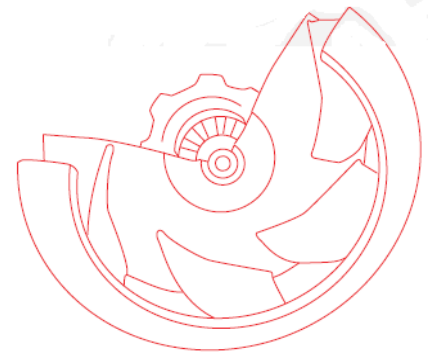
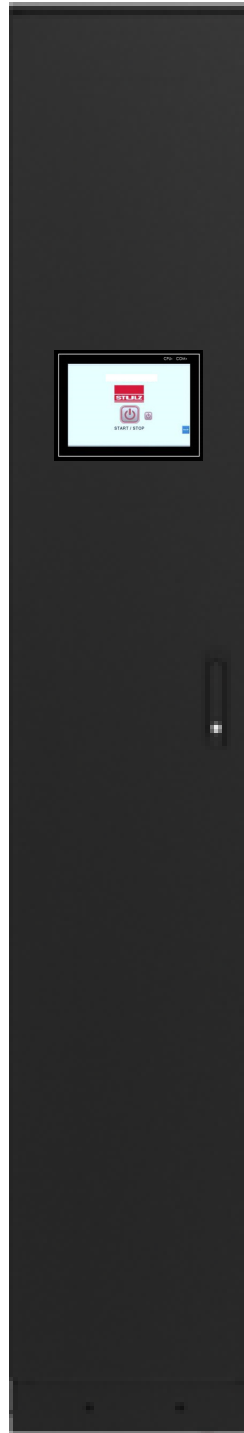


STULZ

CLIMATE. CUSTOMIZED.



Integrated Cooling System (ICS)

Rack-based CW Cooling System for Optimum Operating Conditions



Efficient and Targeted Rack Cooling

The Integrated Cooling System is an In-Rack Closed Loop Chilled Water based Cooling Unit with EC fans & Combined with a Chiller. The space-saving row-based Precision Cooling Units are Floor Mounted & Side Discharge type.

The ICS remove the heat generated by the servers right at the source by drawing the hot air from the rear of the Server Racks, cools it using high-performance compact heat exchanger & blows the cooled air right into the front part of the IT Enclosures on either sides.



The Side-mounted Cooling Solution : Integrated Cooling System (ICS)

- The solution for side-mounting provides 10-30 kW of cooling capacity.
- Minimal energy consumption.
- Precise temperature control.
- Available as cooling system with chilled water.
- EC Fans can be controlled independently of each other for optimum adaptation to different return air and supply air temperatures.
- Maintenance access on front and back

Advantages at a glance

The Chilled water is supplied to the ICS unit via building chiller or other chilled water plant. Chilled water has high affinity for heat, thus making it a very efficient cooling method. Stulz controller allows for independent valve and fan control so the unit can adjust immediately and precisely, to varying heat loads and optimize energy efficiency.

- Independently and infinitely adjustable EC fan technology for maximum energy efficiency.
- 300mm width cabinet.
- Used in In-Rack/Closed loop architecture, and HPC/hotspot reduction applications.
- Adapts to both high and low density IT environments.
- Wide range of cooling capacities available.
- 100% front and rear service access.
- Seamless integration with most BMS/DCIM platforms.
- High air flow with less noise.
- 2-way control valves.
- Top and bottom piping options.
- Installation on raised and non-raised floors.



Service worldwide

For 40 years, the STULZ service organization has provided preventive and corrective services for mission-critical applications. With 10 branches, 19 subsidiaries, and sales and service partners in more than 140 countries, we make sure we are close to our customers all over the world, ensuring perfect operation of their ICS systems.



Technical Data

Model No.	ICS(H) 100 CW	ICS(H) 200 CW	ICS(H) 300 CW
Cooling Capacity	10 kW	20 kW	30 kW
Unit Type	Chilled Water		
CW Valve	2 Way type		
Air Flow	1000 CFM	2000 CFM	3000 CFM
No of Fans	1 to 2 nos.	2 to 3 nos.	3 to 5 nos.
Type of Fans	Backward Curved Fan		
Type of Drive	Direct Drive		
Type of Motor	EC Motor		
Statically & Dynamically Balanced	Yes		
Evaporator Coil (CW)	Copper Pipes and Aluminum Fins Mechanically Bonded		
Water Inlet °C	15°C		
Air Filter	Washable with Metal Frame		
Filtration Grade	90% down to 10 microns		
Filter Media	HDPE		
Duty Cycle %	100%		
Rated Operating Voltage	230 V, 1~, 50 Hz		
Dimensions (HxWxD) mm	2000 x 300 x 1200		
External Finish	Powder Coated, Textured		
Protection Category	IP 20		

* Specifications are constantly evolving hence subject to change without notice.

Registered Office :-

STULZ-CHSPL (INDIA) PVT. LTD.
006, Jagruti Industrial Estate, Mogul Lane,
Mehim, Mumbai - 400 018
Tel. +91 (22) 66669055/56/57
Fax +91 (22) 66669448
info@stulz.co.in

Factory

STULZ-CHSPL (INDIA) PVT. LTD.
A-173 & 173/1, TTC Industrial Area,
Kopar Khalme, MIDC,
Navi Mumbai-400 710

Branch Office

Pune
C-201, Survey No. 156/1,B1
"Bageshi" Raagdarl Apt,
D.P. Road, Aundh
Pune - 411 007

Bangalore
127/18, A-3, Gem Wellington Bldg.,
Gr. Flr., Old Airport Road,
Next to HDFC Bank,
Bangalore - 560 017

Chennai
Door No. Old-54, New
No.191, 1st Floor,
Ellalyamman Koll Street,
Vannanthural, Adayar,
Chennai-600 020

Hyderabad
9-4-84/71,
Kakatiya Nagar, Nanal Nagar, Mehdiapatnam,
Hyderabad-500 008

NCR
406, 4th Floor,
Ansal Chamber - II,
Bhikaji Cama Place,
New Delhi - 110 066

Kolkata
Block-J, No.01, Tagore Park,
Kolkata-700 039

GERMANY
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Close to you around the world

Stulz has worked towards lowering expenses by reducing operating costs, life cycle costs and power consumption. Now the same German efficiency is available in India at an unbeatable price advantage!

For further information, please visit our website at www.stulz.in