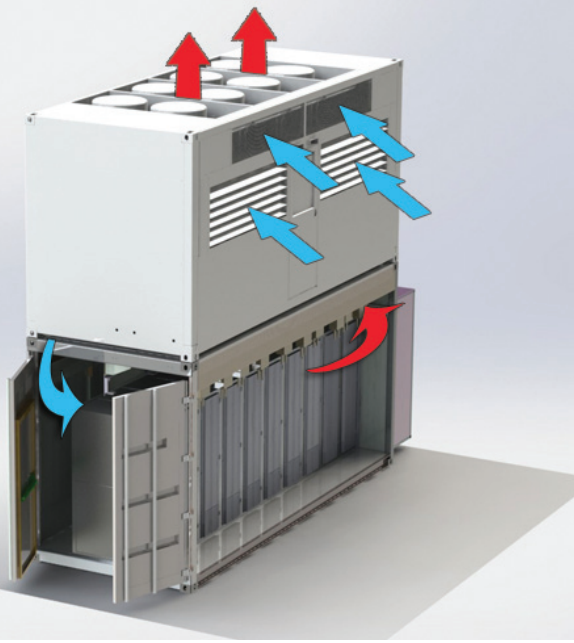


STULZ CyberCon



Outdoor Cooling

Modular Container

STULZ CyberCon

The STULZ CyberCon outdoor modular container system is designed for conditioning the air in a containerized computer room (Pod).

Standardized Container

- Easy to ship and install
- Can be installed directly on top of a data center Pod
- No components (ex: fans, doors, louvers) exceed outside dimensions
- Constructed in advance of installation to promote rapid deployment
- Rigid construction

Modular Design

- Reduces up-front capital costs
- Provides ability to scale capacity and quickly align with IT demand
- One side air intake and service access allows end to end and back to back installation
- Designed for high reliability with redundant components
- Facilitates standardization



Features

Benefits

Fan Design

- Backward inclined plenum style EC Fans provide redundancy and minimal energy consumption
- Face & By-pass Damper reduce air pressure drop during low loads to save fan energy

Air Side Economizer

- Integrated air side economizer provides direct free cooling, allowing energy savings

Filtration System

- Filter options are available in MERV 8 to MERV 11

Cooling

- DX Cooling
 - Self-contained air cooled DX system
 - Uses R-410A refrigerant
 - Staged scroll compressors with capacity control via hot gas bypass
 - Multiple independent circuits with interlaced coil and electronic expansion valve
- Direct Adiabatic Cooling (Optional)
 - High performance pads
 - Automatic real-time flushing, washing and drying cycles
 - Zone controlled water supply achieves optimal performance and minimizes water consumption
 - Wetted sections constructed from stainless steel

Condenser

- Air cooled micro-channel condenser
- High performance axial EC Fans

Controls

- Standard STULZ *E*² Controller to ensure precise control

Humidification

- Direct adiabatic option handles humidification and provides additional energy efficient cooling

Air Exhaust

- Achieved by utilizing the condenser fans

Standards & Codes

- Meets standards such as: UL 1995 and NFPA70
- ETL and cETL labeled

STULZ CyberCon Capacities

Module Size		20'		40'	
Ambient Temp	Coil DT	Max CFM	Max Capacity	Max CFM	Max Capacity
95°F (35°C)	45°F (25°C)	18,400 CFM	240KW	36,800 CFM	480KW
95°F (35°C)	27°F (15°C)	23,000 CFM	240KW	46,000 CFM	480KW
105°F (41°C)	45°F (25°C)	18,000 CFM	238KW	36,000 CFM	476KW
105°F (41°C)	27°F (15°C)	21,400 CFM	238KW	42,800 CFM	476KW
115°F (46°C)	45°F (25°C)	17,600 CFM	230KW	35,200 CFM	460KW
115°F (46°C)	27°F (15°C)	20,800 CFM	230KW	41,600 CFM	460KW
Units/Module		2		4	

CyberCon Design Conditions

Max Outside Air Temp: 115°F (46°C)
Min Outside Air Temp: -30°F (-35°C)

Cold Aisle Temp Range: 64.4-80.6°F (18-27°C)
Cold Aisle Dew Point: 41.9-59°F (5.5-15°C), RH < 60%
Max Hot Aisle Temp: 104°F (40°C)

