

Data Center Cooling Series – DCCool90D

In-Room Smart Cooling Data Center

DCCool45iD/U, 60iD/U, 90iD/U, 120iD/U (Indoor unit)

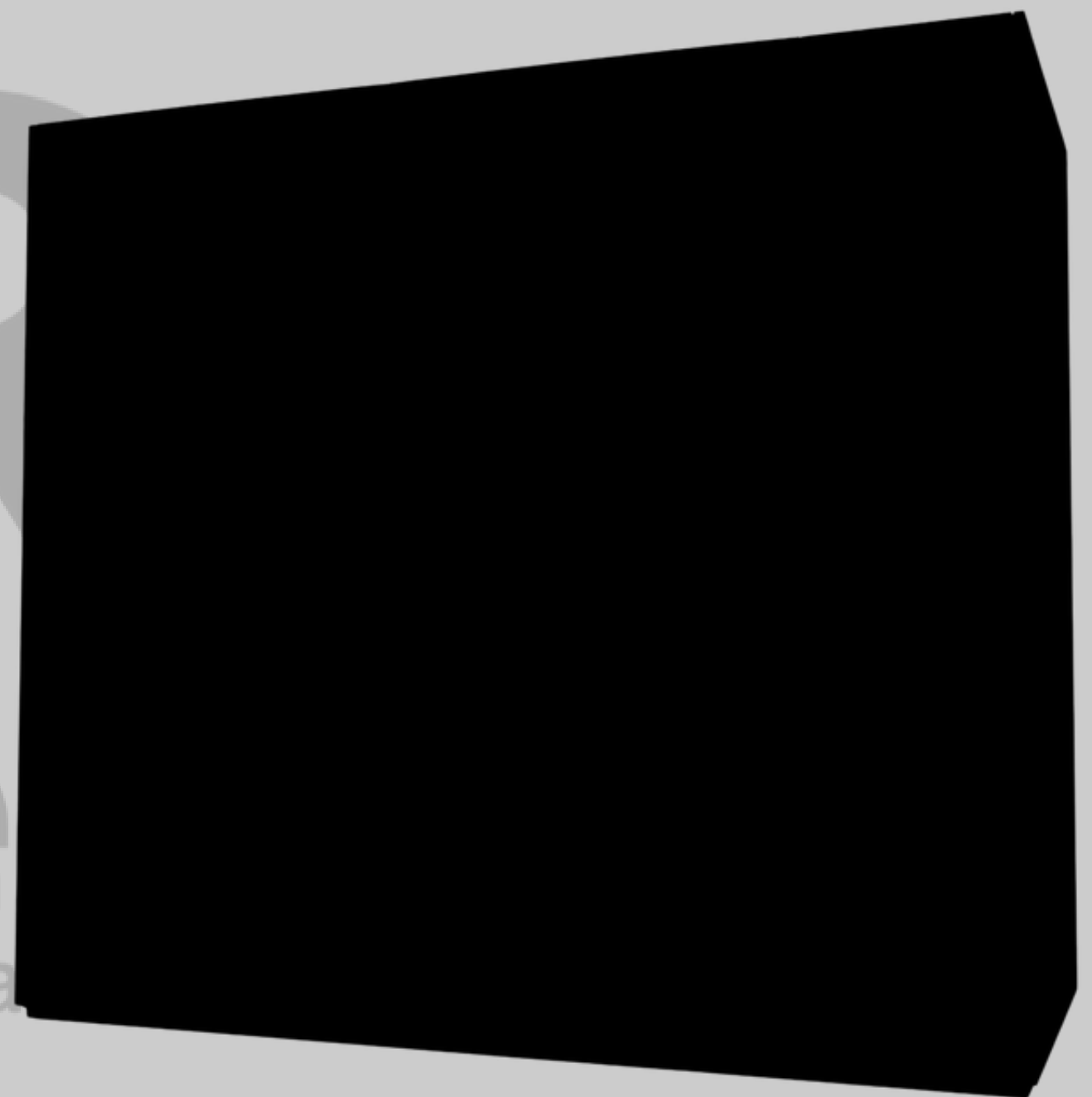
DCCool45oD/U, 60oD/U, 90oD/U, 120oD/U (Outdoor unit)

Introduction

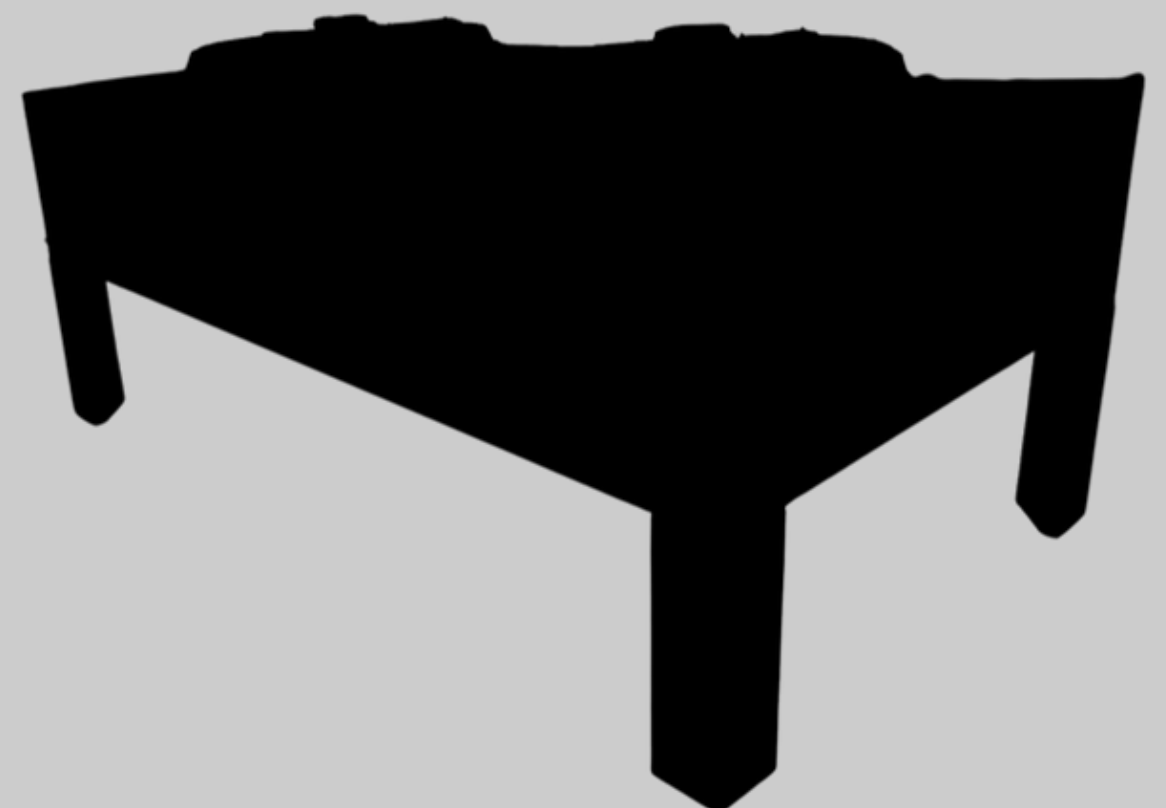
DCCool90D are designed for data centers and server rooms of any size. in room air cooled smart cooling solution consisting of indoor and outdoor unit. It is flexible for expansion, matching heat load intelligently. Construct a precision management and intelligent system, building an efficient, reliable and simple data center.

Features

- EC fans in the indoor unit
- Electronic TXV (Thermostatic Expansion Valve)
- Phase monitoring relay
- G4 filter + filter sensor
- Dry contact for "General Alarm"
- High-pressure relay
- Solenoid valve and sight glass on the liquid line
- Compressor crankcase heater
- Built-in time card
- Modbus RTU protocol for system integration
- Inlet air temperature/humidity sensors
- Airflow sensor
- Shutdown via "Fire Alarm" signal
- Shut-off valves on liquid and discharge lines
- Low-pressure relay
- 7-inch touchscreen
- Outdoor unit with fan speed control
- Insulated Sound Rack



DCCool90iD



DCCool90oD

Application

- Modular data center
- High power density data center
- Small and medium scale data center
- UPS and battery room

Specification

Indoor Unit	Unit	DCCool45D/U	DCCool60D/U	DCCool90D/U	DCCool120D/U
Airflow	-	45	60	90	120
Total Cooling Capacity	kW	45	60	90	120
Sensible Cooling Capacity	kW	45	60	90	120
Air Flow Rate	m3/h	12.500	16.000	25.600	29.000
Power Supply	V/Ph/Hz	380/400/415Vac, 3Ph+N+PE, 50/60Hz			
Reheating Capacity	kW	6	6	12	12
Humidifier Capacity	kg/h	4.5	6	10	10
Dimension: W × D × H	mm	900*900*2000	1100*1000*2000	983*2165*1975	2200*1000*2000
Net Weight	kg	337	400	716	772

Note:

- Nominal condition: indoor return air 35°C/ 26%RH, outdoor 35°C.
- Heating and humidification are optional.
- DCCool45D and DCCool60D is a single system unit. DCCool90D and DCCool120D is a dual system unit.

Specification

Outdoor Unit	Unit	DCCool45D/U	DCCool60D/U	DCCool90D/U	DCCool120D/U
Power Supply	V/Ph/Hz	Power Supply From Indoor Unit			
Liquid Pipe OD	in	5/8	5/8	5/8	5/8
Gas Pipe OD	in	7/8	7/8	7/8	7/8
Dimension: W × D × H	mm	1094*1356*1107	1094*2186*1107	1100*2250*1770	2189*1356*1107
Net Weight	kg	122	200	366	265

Note:

- The pipe diameter is only for reference, it maybe change in actual project..

General Disclaimer

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