

HPAC - HIGH PRECISION AIR CONDITIONING

CCD COOLING DOOR

NEW!

CHILLED WATER COOLING DOOR UNIT 2639 kW



VERSIONS

CCD - Cooling door BASIC: Single chilled water coil version
CCD - Cooling door DUAL: Double chilled water coil version

UNIT DESCRIPTION

The CCD unit is the most innovative and efficient system for managing Hot spots inside Data Centers, in other words, HIGH DENSITY racks up to and over 40 kW/m² per rack.

The Cooling door unit is housed at the rear of the rack and is managed by a DYNAMIC system, especially designed to handle the rack exhaust air, which SELF-ADAPTS to rack requirements.

MAIN FEATURES

- New generation EC fans
- 42U / 48U racks adaptability
- Can be supplied with rack
- Dynamic control of air stratification
- Configuration with reduced Airflow Rate R(N+1) and total T
- Integration into DUAL CIRCUIT, FREECOOLING + BACK UP system
- Dehumidification Less Management

WORKING MODE

The CCD unit is to be considered both as a stand-alone cooling unit for the exhaust air of the single rack in small Data Centers and as a system for managing Hot-Spots in large Data Centers for integration of hot and cold aisles or aisle containment structures. While the cooling of rack is delegated to the perimeter air conditioning units that provides cold air between 18-20C in the cold aisle, the Cooling Door handles racks at a higher thermal load.

CCD

Cooling door BASIC

Cooling door DUAL

Models		0030 R	0030 T	0035 R	0035 T	0036 R	0036 T
Electrical power supply	V-Ph~Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Cooling Performances							
Total cooling capacity	(1) kW	26,6	31,8	32,2	39,1	29,2	35,8
Sensible cooling capacity	(1) kW	26,6	31,8	32,2	39,1	29,2	35,8
SHR		1	1	1	1	1	1
EER	W/W	157	110	189	135	172	123
Water flow rate	(1) l/h	3830	4570	4620	5610	4190	5140
Total unit pressure drop	(1) kPa	53	73	37	51	35	50
N water circuits	n	1	1	1	1	2	2
Fans							
Number	n	4	4	4	4	4	4
Fan air flow	m ³ /h	5040	6520	4790	6200	4140	5520
Power Input	kW	0,17	0,29	0,17	0,29	0,17	0,29
Dimension							
Dimension LxHxP	mm	600x2020x260	600x2020x260	600x2020x260	600x2020x260	600x2020x260	600x2020x260

Note: (1) Inlet air : 46 C/15% r.h. ; Water (in/out): 14/20 C