

VISIONTEC

Direct Rack Cooling Solutions

*Unparallel reliability to cater for medium and high density
Green Data Center application*



PA VISION SDN BHD

TOWARDS PERFECTION

The Innovative Green Data Centre Solutions Professional

Direct-to-source cooling turns your data center GREEN

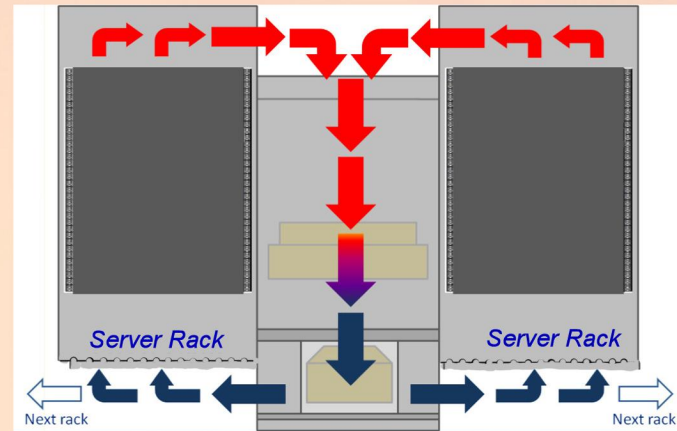
Visiontec Direct Rack Cooling innovation ensures accurate climate control and reliable operation of ICT systems for the most efficient

Evolution in direct rack cooling for server racks goes a step further with Visiontec HD Rack Cooling unit's flexible arrangement of air-flow patterns to suit individual rack's requirement.

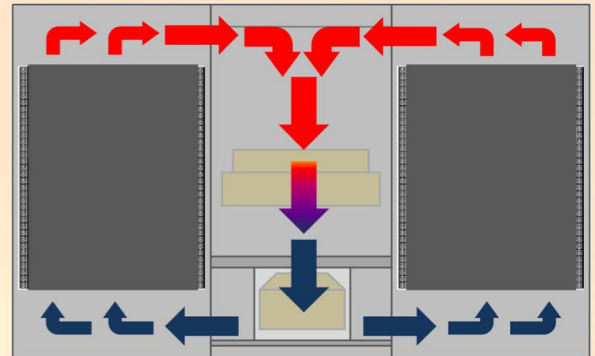
With Visiontec Rack Cooler, you can choose to cool your server racks in an cold/hot aisle arrangement, turn your racks literally into a refrigeration unit by simple rearrangement and adjustment of the air intake points.

Practical dimensioning ensures seamless coupling of the cooling units to any types of racks

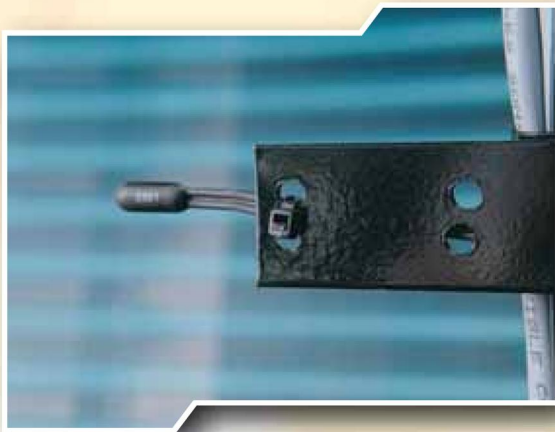
600mm unit width fits perfectly into the raised floor panels, and requires no further cutting of the panels.



*In-row cooling (Row-based) - TOP VIEW
PERFORATED FRONT DOOR*



*In-rack cooling (Rack-based) - TOP VIEW
GLASS FRONT & BACK DOOR*



Towards perfection



Visiontec Rack Cooling Unit, a state-of-the-art precision A/C unit, is tailor-made for direct-to-source cooling of racks. Air circulation is enhanced with good internal air channeling system developed with the assistance of advanced computer-aided design tools for optimum cooling of the server rack equipment.

Visiontec Rack Cooling Unit is a standalone air conditioning unit and is operated independently from the rack. This enhances the performance, flexibility and efficiency of the cooling operation.

Advantages

Hydrophilic-coated aluminium coils for **both indoor and outdoor units**

Flexibility of horizontal or front air distribution

Large face area for effective heat exchange

Intelligent 16-Bit microprocessor with touch screen with real time 24 hours temperature graph

Hermetic scroll compressor with high EER/COP

Rooms with or without rased floor

Redundancy Fans Design (n+1)

Total Heat Removal at Source

Easy adaptation to any type of rack from 5-60kW
Cooling Load per rack

Closed coupled cooling prevent hot-cold air mixing thus improve energy efficiency

Variable speed fans automatically balance flow rate to suit exact server load

Even cooling over the full height of the server rack eliminate localied hot spots

Alarm features:

- compressor high/low
- temperature high/low
- humidity high/low (option)
- no airflow
- filter block
- manual override
- power failure restart
- condensate drain pump c/w overflow alarm
- optional BAS integration with Bacnet, SNMP, Trend Metasys and SMS high level interface



Direct Rack Cooling Series

TECHNICAL DATA

INDOOR UNIT	Air Cooled		
Model No.	HDRCA-10-AC / VIAC10	HDRCA-20-AC / VIAC20	HDRCA-30-AC / VIAC30
Cooling Capacity (kW) at 32°C at 30% RH	10	20	30
Nominal Air Flow rate per unit (CFM)	1500	2500	3500
Type of coil (Indoor & Outdoor)	Hydrophilic Coated Aluminium Fin	Hydrophilic Coated Aluminium Fin	Hydrophilic Coated Aluminium Fin
Type of Compressors	Hermetic Scroll	Hermetic Scroll	Hermetic Scroll
Type of Frame	Steel	Steel	Steel
Type & Quantity of Indoor Blower	EC fans / 3	EC fans / 4	EC fans / 5
Voltage/Phase/Frequency	415/3/50	415/3/50	415/3/50
Indoor Current Consumption (Amp)	14.6	17.2	23.3
Outdoor Current Consumption (Amp)	16.3	18.9	26.1
Indoor Weight (kg)	125	160	170
Overall Indoor Dimension, mm (w x d x h)	600 x 1100 x 2050	600 x 1100 x 2050	600 x 1100 x 2050
Optional Depth, mm	1000 / 1200	1000 / 1200	1000 / 1200
Overall Outdoor Dimension, mm (w x d x h)	1320 x 508 x 826	1320 x 508 x 1029	927 x 940 x 1320
Outdoor Weight (kg)	190	200	285

TECHNICAL DATA

Chilled Water

Model No.	HDRCA-10-CH	HDRCA-20-CH	HDRCA-30-CH
Cooling Capacity (kW) at 32°C at 30% RH	10	20	30
Nominal Air Flow rate per unit (CFM)	1500	2500	3500
Type of coil	Hydrophilic Coated Aluminium Fin	Hydrophilic Coated Aluminium Fin	Hydrophilic Coated Aluminium Fin
Water Flow Rate	7.2	13.7	21
Type of Frame	Steel	Steel	Steel
Type & Quantity of Indoor Blower	EC fans / 3	EC fans / 4	EC fans / 5
Voltage/Phase/Frequency	240/1/50	240/1/50	240/1/50
Indoor Current Consumption (Amp)	3.9	5.2	6.5
Weight (kg)	93	100	106
Overall Indoor Dimension, mm (w x d x h)	600 x 1100 x 2050	600 x 1100 x 2050	600 x 1100 x 2050
Optional Depth, mm	1000 / 1200	1000 / 1200	1000 / 1200

Subject to change without notice due to continuing engineering innovation and improvements.
Piping Connection can be from top or bottom



Direct rack cooling using Visiointec HDRCA series cooling units

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