

Eaton-Williams Cooling IT



*Blade Server & Data Room Cooling,
CRAC units, Installation and Service*



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CDU Unit

The Cooling Distribution Unit (CDU) is designed to provide cooling water, close controlled and above dew point for up to 6 rear door heat exchangers. It is capable of up to 150kW cooling capacity.



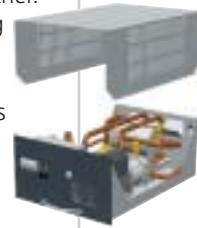
Modular CDU

For greatest flexibility and perfect upgrade path, the modular CDU system provides the connectivity for up to 6 CDU Modules during initial install whilst allowing the CDU Modules and RDHx's to be added as the heat loads increase and data centre grows.



CDU Module

The 20kW CDU Module is a self contained version of its big brother. It can provide cooling water above dew point to 1 or 2 rear door heat exchangers and is designed to slide in a standard 19" rack (6u high).



Server Cabinets Rear Door Heat Exchangers

Server Cabinets and Rear Door Heat Exchangers (RDHx) are designed to provide an environment for high heat density servers and IT equipment and remove up to 30kW of heat at source rejecting it to water rather than the room.



DRU (CRAC) Unit

DRU Data Room air conditioning units are designed for high density load areas where a large cooling duty is required, from a compact footprint, but without compromising the critical application of data centre cooling.



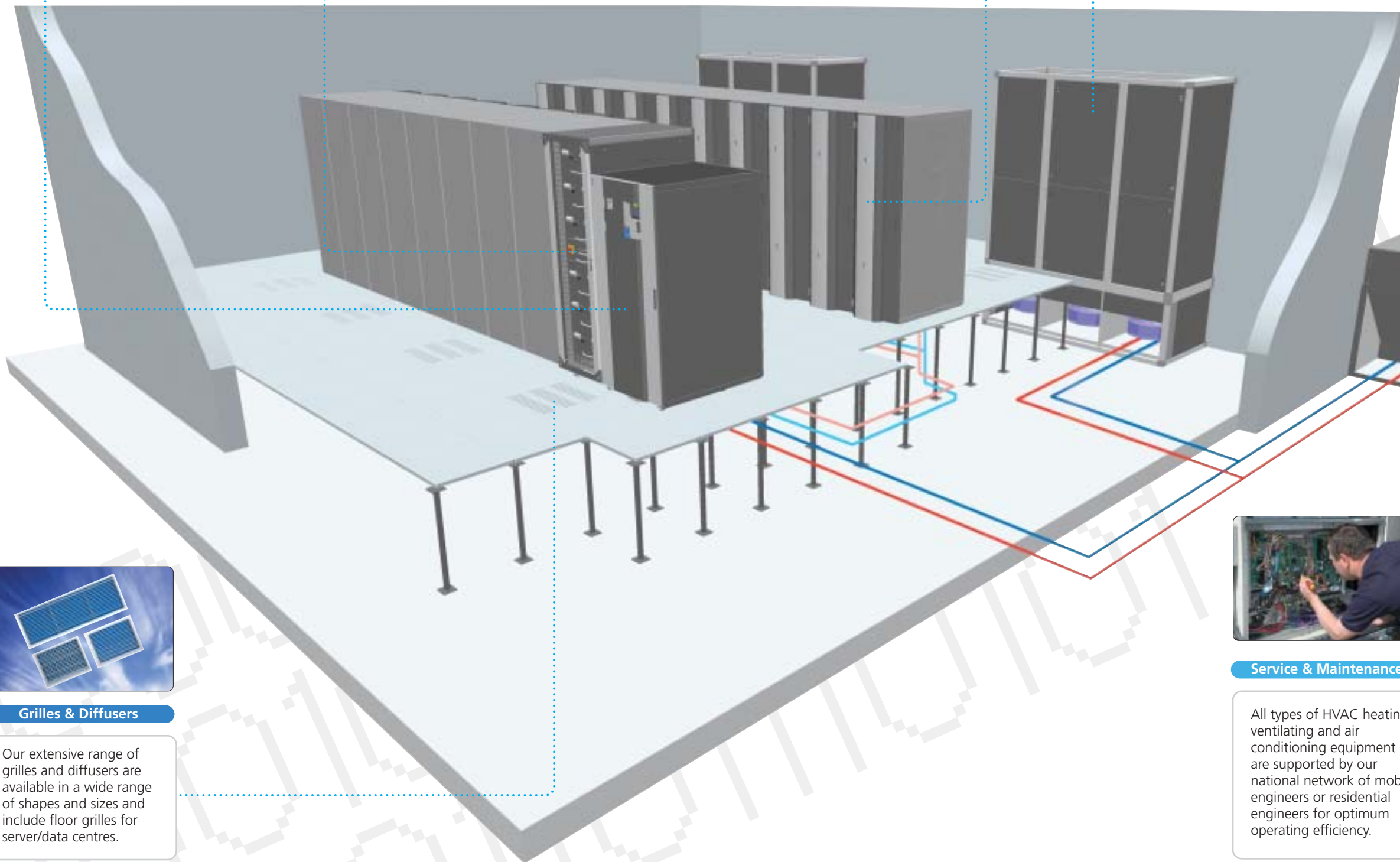
IPAC (CRAC) Unit

IPAC floor standing air conditioning units are available in chilled water or DX cooling only configuration. Units can be supplied with an upflow or downflow air pattern.



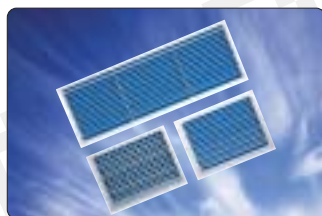
Chillers

Energy efficient chillers up to a capacity of 600kW with full run/standby (N+1) capability can be offered. These can also be fitted with free cooling capability and qualify for ECA (Enhanced Capital Allowance) under the Carbon Trust Scheme.



Grilles & Diffusers

Our extensive range of grilles and diffusers are available in a wide range of shapes and sizes and include floor grilles for server/data centres.



Service & Maintenance

All types of HVAC heating, ventilating and air conditioning equipment are supported by our national network of mobile engineers or residential engineers for optimum operating efficiency.



M&E Services

Project design, installation and commissioning. Refurbishment. CFC and HCFC recovery and substitution.



Group Products & Services



Server Cabinets & Rear Door Heat Exchangers (RDHx)

Powerful cooling capacity, up to 30kW heat removed at source and rejected to water, not the room. Condense free operation using dew point controlled water from the CDU. 6 'hot swap' fans – variable speed. 80% front door venting. 1,000kg weight loading and full range of accessories. Easily installed via leak free quick release 3/4" couplings and hose sets.

600mm wide – 20kW cooling.
800mm wide – 30kW cooling.



CDU (Cooling Distribution Unit)

Provides cooling water for up to 6 rear door heat exchangers. Cooling capacities of 100, 120 or 150kW with full run/standby capability (N+1). Internal manifold with leak free quick release couplings for easy installation and connection to the rear door heat exchangers via 3/4" hose sets. Chilled water connections (42mm / 1 1/2") via top or bottom. Dew point temperature control of cooling water, internal CW filtration. Auto fill and bleed of coolant. Full alarm monitoring and connectivity.



CDU Module

The 20kW CDU Module is a 6u rack mountable, self contained cooling module capable of providing closely controlled cooling water above dew point to one or two rear door heat exchangers. Leak free, quick release couplings enable rapid install and connection to the rear door heat exchanger via 3/4" hose sets. Features include dew point temperature control for condense free operation, Auto fill and bleed of coolant, full alarm monitoring and connectivity.



Modular CDU System

A dedicated cabinet to house up to 6 CDU Modules to enable initial install to be completed allowing the perfect upgrade path. The cabinet houses power distribution and chilled water connectivity to the 6 CDU Modules via manifold and couplings. Individual CDU Modules can then be simply plugged in as the data centre expands or heat loads increase. Alarms, room temperature and humidity data are managed through the central power distribution system giving one connection point for power and alarms.



DRU (CRAC) Unit

DRU Data Room air conditioning units are designed for high density load areas where a large cooling duty is required, from a compact footprint, but without compromising the critical application of data centre cooling.

80/100/120kW cooling capacities.

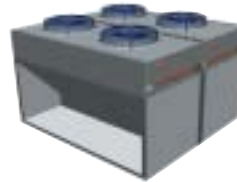
Available in chilled water, DX, DX with water cooled condenser and glycol free cooling configurations. A full range of options and ancillaries are available including inbuilt humidifier for room humidity control.



IPAC (CRAC) Unit

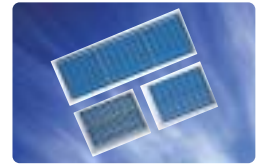
IPAC floor standing air conditioning units are available in chilled water or DX, cooling only configuration.

15 - 80kW cooling capacities available in various configurations including up flow or down flow air path, chilled water or DX cooling. A full range of options and ancillaries are available including inbuilt humidifier for room humidity control.



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M&E Services

Project design, installation and commissioning.
Refurbishment. CFC and HCFC recovery and substitution.



Humidification

Specialist manufacturers of humidifiers and steam generation products.



Air Handling

Eaton-Williams design and manufacture air handling plant for commercial and industrial applications. Applications include hospitals, supermarket chains, leisure stadiums, pharmaceutical buildings and office complexes with uniquely designed solutions to suit each project.



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