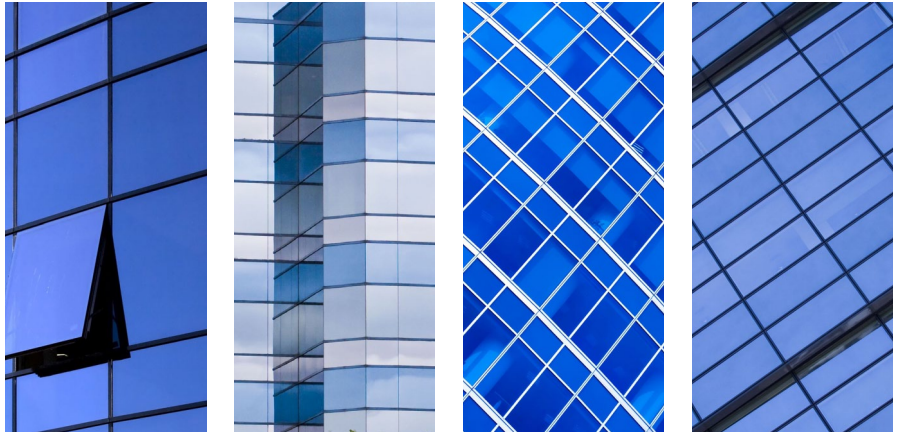




A scalable power and cooling solution in a single package.



dc<sup>3</sup> dataCUBE

Datacentience Datacube

8–40kW



## A PARADIGM SHIFT

### From Room to Row to Rack

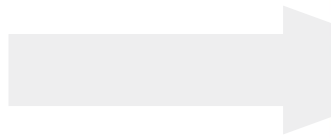
Continuing advances in the delivery of computing services through virtualisation and cloud computing necessitate a corresponding advancement in the supporting physical infrastructure.

Large datacenters have given way to row level solutions and row level has now given way to rack based solutions capable of scaling up to meet future demands.

As small server rooms become home to higher density loads, rack level packaged infrastructure has become the datacenter or server room.



from this ...



... to this

## LOW CAPITAL COST AND LOW OPERATING COST

### 8–40kW Packaged Scalable Power and Cooling

The small footprint and thermally neutral Datacube allows use of any existing space for deployment of a new server room or a high density addition to an existing computer room.

Capital cost and time to deploy are dramatically reduced. A raised floor is not required. A separated UPS and battery room are not required.

Highly efficient rack level uninterruptible power supply and close coupled cooling units mean that the Datacube runs on up to 79% less power and occupies half the floor space of conventional raised floor solutions. The UPS system is fully scalable in 8kW increments from 16 to 40kW.

## MATCHED COMPONENTS REDUCE COMPLEXITY AND CAPITAL COST

### Packaged Chillers Complete the Power and Cooling System

Where there is no building chilled water supply available, Datacube is available with a chiller exactly matched to the power and cooling requirement.

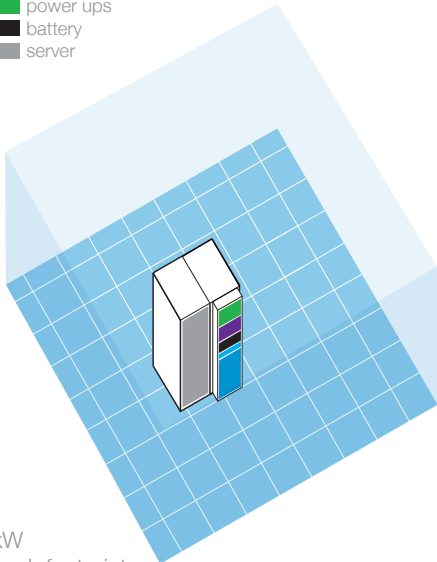
The Datacube can be configured to match the IT load or it can be deployed in a redundant N+1 configuration depending on the degree of availability desired or demanded by the application.



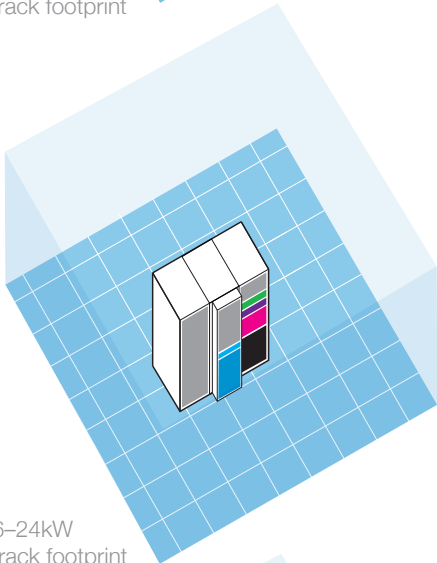
Installation view of a 24kW Datacube



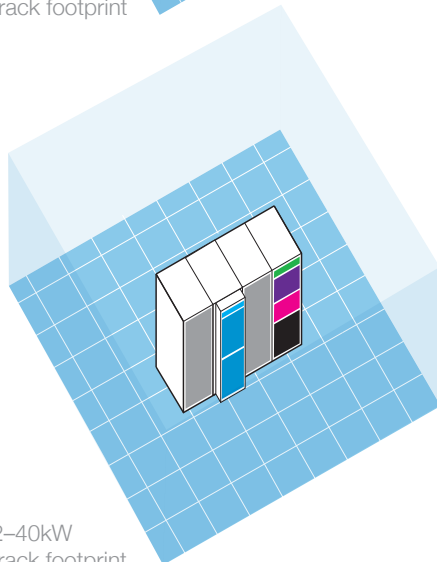
- delta T cooling
- micro processor
- manual maintenance bypass switch
- power controller
- power ups
- battery
- server



8kW  
2 rack footprint



16-24kW  
3 rack footprint



32-40kW  
4 rack footprint

## EASY TO BUY, EASY TO INSTALL, EASY TO USE, EASY TO UPGRADE

Upgrades to IT Capacity made simple, quick and cost effective

Whether you need a boost in capacity or a new deployment, the Datacube offers a transformational gain in deployment time, complexity and cost.

- Order a single part number for a complete solution.
- Matched power and cooling for easy selection.
- Delivered to you fully assembled for easy deployment.

## COMPLETE RANGE

8-40kW Packaged Solution Delivered Fully Configured

The entry level 8kW solution is offers a complete 'server room in a rack'.

The 16, 24, 32 and 40kW packaged systems are scalable and configured as either N or N+1.

All Datacubes include:

- Main power input module with maintenance bypass and independent circuit breaker protection to isolate the IT load and the mechanical and electrical loads.
- UPS module (8-40kW)
- Battery module (8 minutes autonomy)
- Delta T close coupled cooling unit
- Optional chiller (10-40kW) complete with pump package

## CONTACT DETAILS

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