

Datatech +

Precision air conditioners with inverter driven brushless DC compressor

General

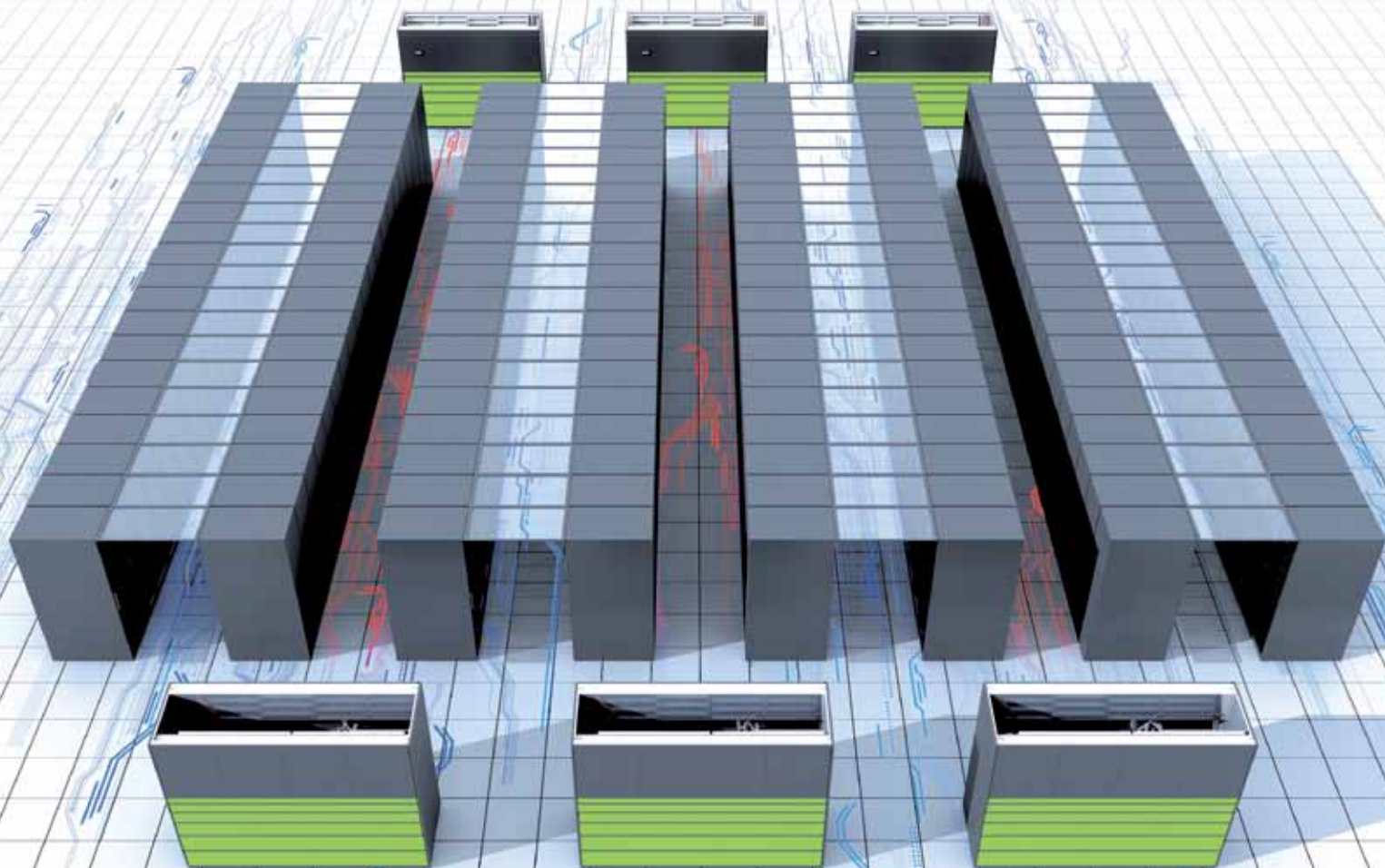
Datatech+ represents the state of the art as regards efficient, precise and reliable cooling of Data Processing Centres, small and medium-sized computer rooms, laboratories and technological environments in general. The combination of inverter-controlled brushless DC compressors, EC fans and electronic expansion valves together with a sophisticated control algorithm allows the highest performance to be achieved as required for the air conditioning of technological equipment.

Quick facts

- ▶ High sensible heat removal rate.
- ▶ Exceptional efficiency at partial loads
- ▶ Regulation of the inverter driven compressor between 30 and 120% of the rated value.
- ▶ Constant and precise control of thermo-hygrometric variables.
- ▶ Dual power supply available as option
- ▶ Hot gas re-heat available
- ▶ Wide capacity range

DATATECH
 BlueBox





WITH INVERTER

Redundancy means more efficiency

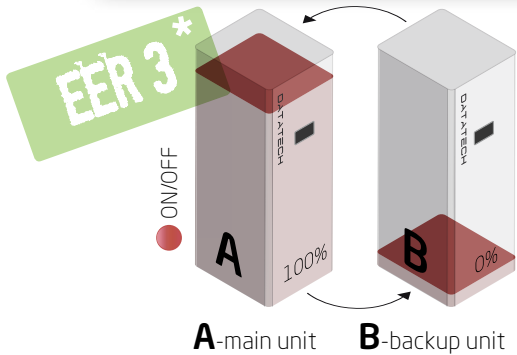
The higher efficiency of the refrigerant circuit at part load conditions grants the maximum benefit in (n+1) redundancy applications

REDUNDANCY

The higher efficiency of the refrigerant circuit at part load conditions grants the maximum benefit in (n+1) redundancy applications: instead of keeping one or more units in standby as a backup, all of them will work together each one at lower capacity, obtaining in this way a lower initial investment and a lower operating cost.

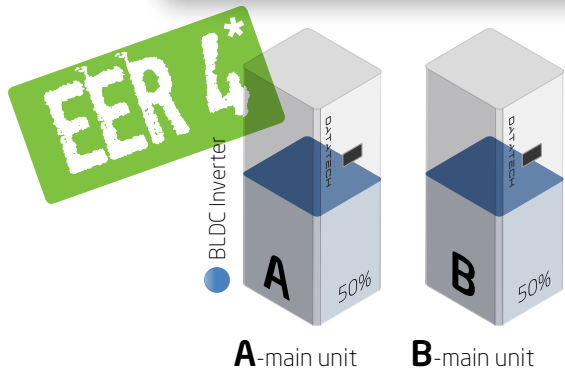
RUNNING-STAND BY

primary with secondary unit used only as a backup



SMART DUET

both units used at partial load

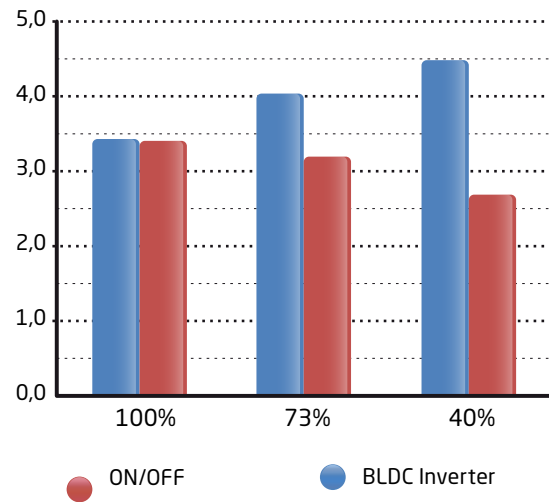


BRUSHLESS DC

The brushless DC motor is inherently more efficient than an AC motor and is designed to be speed modulated.

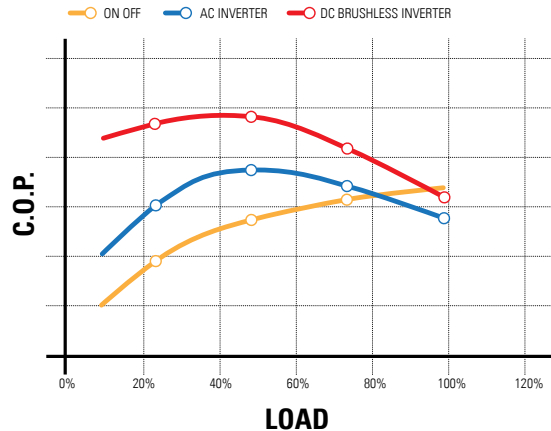
ACCURACY
+/- 0,5 °C

NET EFFICIENCY



The compressor can modulate between 30% and 120% of its nominal speed.

BLDC compressor is intrinsically more efficient of Digital Scroll® at reduced load.



LOW NOISE EMISSION AT PARTIAL LOAD

At reduced load, compressor and fan operate at lower speed, ensuring lower sound emission 120 rps. Extra capacity is available for temporary peaks.

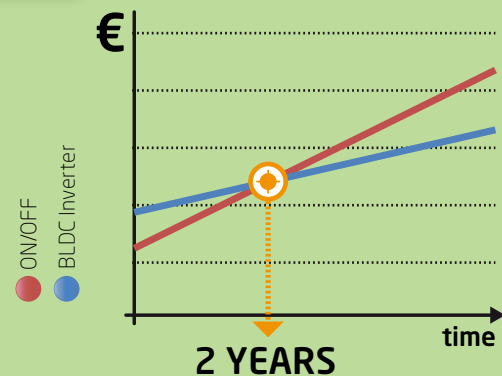


PEAK LOAD MANAGEMENT

Inverter units are designed at 90 rps when maximum is 120 rps. Extra capacity is available for temporary peaks.



RETURN OF INVESTMENT





Datatech product range



Datatech /ED > 6÷104 kW

Precision direct expansion air-conditioners, air cooled or water cooled for technological environments. Available also as DC/FC (Dual Cooling/Free Cooling) version.



Datatech /CW > 6÷220 kW

Precision chilled water air-conditioners for technological environments. Available also as DW (Dual Water) version.



Datatech + > 7÷100 kW

Precision direct expansion air-conditioners, air cooled or water cooled for technological environments. Available only with brushless DC inverter driven components.



Coolblade & Coolmate > 16÷27 kW

Chilled water in-row air conditioners for high density IT applications.



A Svecon Group company

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