

Altivar 212

Orientated towards performance, intelligence and building protection

Dedicated HVAC* variable speed drive for pumps, fans and compressors.

For 0.75 to 75kW - 1 to 100 hp motors.

Focused on Building Management Systems (BMS)

- Easy integration to building supervision network using embedded protocols.
- Instant detection of system failure: belt breakage, pump running dry, phase failure, etc.
- Preventive maintenance for reducing costs: fault alert, operating time, etc.
- Energy consumption monitoring.

Focused on user-friendliness

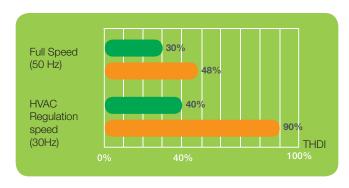
- Easy set-up, commissioning and diagnostics tools: remote graphic terminal (6 languages as standard), Multi-Loader, PC Software, Bluetooth capability and SoMove Mobile software.
- Compact size for better integration.

Focused on cost savings

- Reduced investment costs (embedded functionalities).
- · Quick return on investment (energy saving).

Focused on protection & efficiency

- Continuity of service.
- Functions designed for buildings: fire mode, damper monitoring, mechanical protection, etc.
- Integrated EMC filter.
- Antiharmonic technology (THDI ≈ 30%).



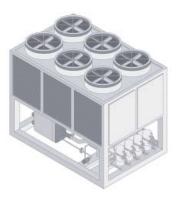




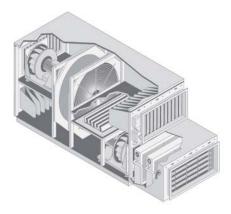
A single product...

Ventilation

Air cooling unit



Air Handling Unit



Comfort

 Reduce noise pollution (air flow, motor, etc.).

Security

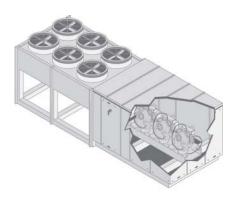
- Detection of belt breakage.
- Smoke extraction: forced operation with fault inhibition.

Simplicity

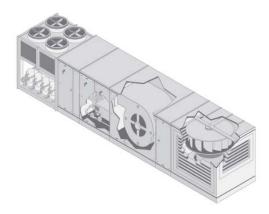
- Automatic restart.
- Damper management.
- Preset speeds for a simple automatic control sequence.

Heating and air conditioning

Condensation unit



Roof Top Unit: ventilation block



Performance

- Optimise control when processing fluids.
- Use of PID regulator (temperature, flow rate, pressure, etc.).

Cost savings

- Flow rates adjustment for better energy management.
- Energy saving mode.

Robustness

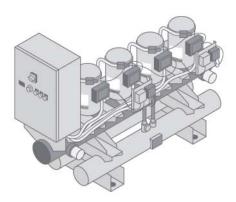
Suppression of mechanical resonance.

Building management system

 Connection to building supervision network.

... for all your ventilation, air conditioning and pumping applications.

Pumping



Security

- Detection of underload/overload, pump running dry.
- Multi-motor configuration.

Cost savings

- Limitation of operating time at low speed.
- Sleep/Wake up function.
- Pressure surge suppression for prolonging the life of the installation.

Simplicity

- Reference calibration and limitation.
- Preset speeds.
- Automatic compensation of the flow rate to precisely follow the system curve.







More user-friendliness and integration

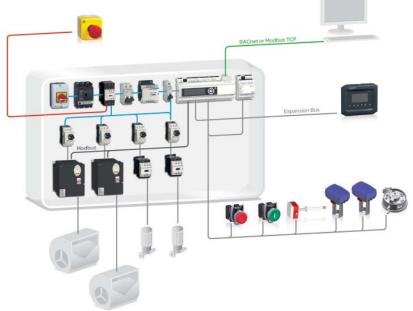
The Altivar 212 provides maximum ease of use and security for system integrators and end-users. Set-up, operation and maintenance are simplified with its user-friendliness and enhanced communication.



More dialogue using the communication tools.



The dual port enables a dialogue tool and a communication network to be connected at the same time.



The Altivar 212 easily integrates in your automation architectures with Modbus, BacNet, APOGEE FLN P1 and MetaSys N2 as standard and Lonworks available as option.



Save up to 70% on your energy bill!

Whatever the fluid (air, water), the Altivar 212 makes your buildings more comfortable, easier to manage and, at the same time, saves energy.



ECO_{2.0} for HVAC Estimate energy savings on your pump and fan applications



ECO_{2.0} a free, multi-platform software to estimate energy savings and the payback period for an Altivar variable speed drive* installation.

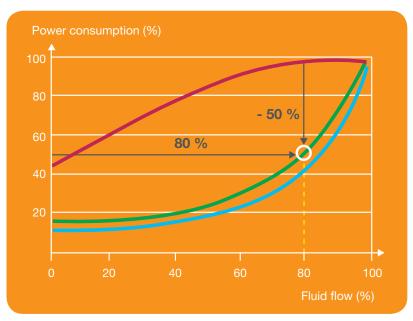
- Easy and fast access to energy and CO₂ information.
- Customization with your own application motor data.
- Direct access to your drives-related technical information.
- Send and receive your project report by email.
- Decision-making support to identify the optimal Energy Efficient solution.
- Available for PC, tablet or smartphone online and offline as free download.
- * Altivar 212. Altivar 61 and Altivar 61 Plus from 0.37 to 2400 kW.

At 80% flow rate, the energy consumption drops 50%. Using the Altivar 212, energy consumption is reduced on average by 30% when using the control mode dedicated to pumps and fans.

Traditional control system

Altivar 212 energy savings quadratic torque ratio

Altivar 212 standard torque ratio



Illustrative curves only (not contractual)



30% average reduction in energy consumption by using the control mode dedicated to pumps and fans.