

## Unit description



Outdoor unit for the production of chilled water, equipped with semi-hermetic screw compressors, R134a refrigerant, axial-fans, condensing coil with copper tubes and aluminum fins, evaporative cooling system, shell and tube evaporator single pass and electronic expansion valve. Base, supporting structure and panels are of galvanized epoxy powder coated steel. The unit is supplied with anti-freeze oil and refrigerant and has been factory tested. These chillers, fitted with free-cooling coils and evaporative cooling system, are used when the cooling load is constant all-year-round. In free cooling mode, the liquid is cooled by outdoor air, thus lowering the load of the compressors until it is reduced to zero. The evaporative cooling system is made of treated cellulose pads and a water circulator that keeps the pads wet. It lowers the air temperature before it reaches unit's coils, thus increasing mechanical cooling efficiency and allowing free-cooling benefits to begin at higher outdoor temperatures. The NG configuration complies with applications where it is not allowed or desired the use of ethylene glycol.

### Versions

- - - Basic
- **SL** - Super-low noise version

### Configurations

- - - Basic function
- **NG** - Function for free-cooling without use of glycole

### Features

- **EXTENSION OF FREE-COOLING TEMPERATURE RANGE**  
Thanks to the evaporative cooling system that decreases the outdoor air temperature, the unit can take full advantage of the free-cooling benefit also in climatic conditions that normally don't permit it.

- **ENERGY SAVING**  
Energy saving guaranteed by free-cooling, which exploits the low external air temperatures; free-cooling control with optional modulating valve.
- **WIDE RANGE**  
Extended capacity range.
- **UNIQUE PROPOSAL - PATENT PENDING**  
Booster function to increase chiller efficiency
- **INTEGRATED HYDRONIC GROUP**  
The built-in hydronic group (optional) includes the main water circuit components. The 2 pumps are in twin configuration and available with 2 or 4-pole motor, fixed or variable speed, high or low head, to satisfy the different installation requirements.

### **Accessories**

- EC fans with electronic DC brushless motor
- Modulating valve for water temperature control in Free-Cooling mode
- Hydronic group
- VPF (Variable Primary Flow) kit: variable flow pumps with on board regulation
- Fast restart
- Double power supply with automatic changeover (ATS) or motorized changeover
- Compressor power factor correction
- Set-up for remote connectivity with ModBus/Echelon protocol cards
- Touch Screen visual display
- Remote control keyboard (distance to 200m and to 500m)
- Noise reducer (only on not silenced versions)