

Unit description



Outdoor unit for the production of chilled water with hermetic rotary Scroll compressors, low-GWP and ozone-friendly refrigerant R454B, axial-flow fans, plate heat exchanger, micro-channel full-aluminum air coils and thermostatic or electronic expansion valve, according to the model. The range is composed by units equipped with two compressors in a single-circuit configuration.

Versions

- **K** - Key efficiency, compact version
- **LN-K** - Low Noise, Key efficiency and compact version
- **SL-K** - Super Low noise, Key efficiency and compact version
- **CA** - Class A of efficiency
- **LN-CA** - Low Noise, Class A of efficiency
- **SL-CA** - Super Low noise version, Class A of efficiency

Configurations

- - - Basic function
- **D** - Partial condensing heat recovery function

Features

- **LOW GWP REFRIGERANT**
The new generation refrigerant R454B is the most eco-sustainable alternative to traditional refrigerant R410A, offering a 76% reduction in terms of GWP (Global Warming Potential GWP of R454B = 466, GWP of R410A = 1924 as per IPCC rev. 5th) and zero impact on the ozone layer.
- **CLASS A EFFICIENCY**
The full range is available with the Class A efficiency rating. Thanks to the generous sizing of the heat exchangers and an accurate control of the fan speed, the CA versions grant a premium level efficiency in every noise configuration.

- **ALUMINIUM MICRO-CHANNEL HEAT EXCHANGERS**
The full aluminium micro-channel condenser coils deliver high efficiency whilst ensuring a reduced refrigerant volume and a lower unit weight. The e-coating protection (optional) grants the highest level of resistance to corrosion in any condition, even in the most aggressive environments.
- **ELECTRONIC EXPANSION VALVE**
The use of the electronic expansion valve generates considerable benefits, especially in cases of variable demand and different external conditions. It has been introduced into these units as a result of accurate design choices concerning the cooling circuit and the optimisation of operation in various different working conditions. The electronic expansion valve comes standard in the high-efficiency CA version.
- **WIDE OPERATING RANGE**
Full load operation is ensured with outdoor air temperature up to 46°C, partial load operation is possible up to or even beyond 50°C. The unit can produce chilled water at negative temperature (down to -10°C of leaving water temperature). Dedicated accessories allow the unit operation down to -20°C of outdoor air temperature.
- **INTEGRATED HYDRONIC GROUP**
The optional built-in hydronic module already contains the main water circuit components; it is available with single or twin in-line, for achieving both low or high head.

Accessories

- Microchannel coils with e-coating protection
- Traditional coils with copper tubes and aluminium fins, also available with prepainted fins or Fin Guard Silver protective treatment.
- Copper-Copper heat exchanger coils
- Compressor power factor correction
- Soft start
- Compressor suction and discharge valves
- High and low pressure gauges
- DVVF and DVV2F devices for low air temperature operation
- Hydronic module with 1 or 2 pumps, high or low head. Buffer tank available.
- Anti-intrusion grills
- EC fans with electronic DC brushless motor
- KIPlink user interface
- User Limit Control (U.L.C.) allows the safe startup of the unit in critical conditions of water and air temperature.
- Night mode is a system setting to limit maximum noise level of the unit.
- Leak detector