



## Unit Description

ICS through their Climaveneta brand introduces the NECS range of chillers and heat pumps with scroll compressors and R-410A.

The range includes sizes with both one circuit (two compressors) and two circuits (four to six compressors), focused on maximum efficiency and minimum noise emission.

### THE RANGE

NECS, NECS-N Cooling only or heat pump standard unit.

NECS-D, NECS-ND Cooling only or heat pump unit, complete with partial heat recovery section.

NECS-R Cooling only unit, complete with full heat recovery section (available for 4-compressor units only).



## Unit Features

- **COMPLETE VERSATILITY**

NECS and NECS-N units are designed to fully satisfy any application need thanks to a complete range of models, versions and configurations. In fact, NECS is available, according to its sizes, in partial (D) and total (R) recovery configurations and in B (base), LN (silent), HT (high temperature), HL (silent high temperature) and SL (super silent) versions.

- **INTEGRATED HYDRONIC KIT**

The new NECS-N units can be equipped with a hydronic kit that incorporates the main hydraulic components thus optimising hydraulic and electrical installation space, time and costs.

The innovative QuickMind regulation featured on NECS-N units was designed to operate in low water content systems thus providing highly professional alternatives to the installation of units with buffer tanks.

- **ELEVATED EFFICIENCY AT PART LOADS**

Units have been designed with the goal of guaranteeing high efficiency also at part load. As an example, single-circuit units boast the most significant increase in seasonal efficiency, with ESEER values up to 4,4. This means a large reduction of the overall energy consumption, on a yearly basis. Associated savings on operational costs can reach 35% compared to traditional models adopting R407c.

## Unit Benefits

- **HEAT PUMPS WITH SMART DEFROST**

Innovating the control of traditional heat pump units, a SMART DEFROST have been developed: a defrost control logic that reduces both the unit's downtime and energy consumption to a minimum. This logic is based on a careful and adaptive evaluation of the operating conditions, both at unit- and outdoor levels. Consequently, unnecessary defrost cycles are prevented.

Furthermore each defrost cycle is limited to the minimum downtime, thanks to self-learning features. Winter mode operation is also integrated with specific pre-emptive control and dedicated diagnostics in order to grant efficiency, reliability and comfort.

- **HEAT PUMPS AT -10°C EXTERNAL AIR TEMP.**

NECS-N heat pump models host several cutting-edge implementations, focused on the efficient and extended operation in winter mode, also with harsh outdoor conditions.

Heat pumps can be equipped with the LT low temperature option. This includes specific regulation which activates adequate refrigerant injection. This keeps the compressor's working range within its safety limits still guaranteeing the unit's operation at -10°C external air temperature.

Equipment designed to ISO-9001 and all relevant directives. Product improvement is a continual process at ICS Industrial Cooling and we reserve the right to change the design and specifications without notice or obligation. Availability is subject to change without notice. Contact your local ICS Industrial Cooling depot for availability. © 2009 ICS Industrial Cooling. All rights reserved.