INNOV@™ ENERGY INVERTER · 3 ➔ 63 kW

Close Control Units

Main applications

- Computer rooms
- Datacenters

Why this choice?

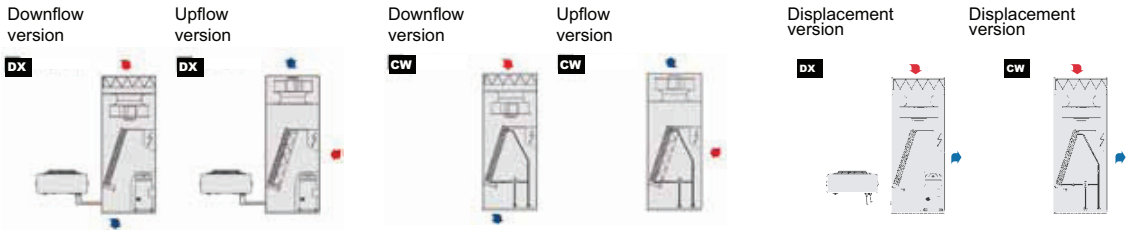
- Energy efficiency
- Reliability
- High quality

General description

The new series of INNOV@™ ENERGY Inverter Close Control Air Conditioning units introduce **modulating cooling capacity for computer room and datacenter solutions.** e-Drive technology integrated in Close Control Unit allow to optimize cooling capacity to the requirement, especially in X-treme density environments where the cooling capacity is normally lower than the design value.
Modulating cooling capacity from 25 – 100%, combined with quick reaction against heat load variation [6 Hz/ second] INNOV@™ ENERGY Inverter introduces a new flexibility in Close Control Air-conditioning.
Variable temperature control combined with the related power consumption lives up to the required energy efficiency.
Thanks to EC motors, obviously on fans but now also on compressors we are able to maximize the energy saving.

Highest energy efficiency, smallest dimensions and lowest noise levels: these were LENNOX's targets when developing it's new **INNOV@™ ENERGY** series, units designed in order to operate 24 hours a day, 365 days a year delivering only cooling which is required.
The reduction of energy consumption in comparison with traditional technologies reaches values up to 45%.

Available configurations



Main components

All main components are reachable from the front of the unit in order to reduce costs for installation and maintenance: electrical panel, compressor, fans, humidifier, electrical heaters, expansion valve and liquid flow filter can be reached by just opening the front panel. This guarantees fast and safe intervention.
Only internationally recognised quality components and latest technology devices are used in the INNOV@™ ENERGY series in order to guarantee top efficiency and reliability. Standard technical features such as electronic expansion valves, backward curved fan with EC motors offers various opportunities in energy saving.

Control

The advanced microprocessor control, available with in a standard or a Touch Screen Graphics version, manages all functions of the INNOV@™ ENERGY series. The advanced control offers the opportunity to connect up to 8 units together creating a local network (LAN) and allowing, among different options, to balance operation times in an automatic stand by and rotation function. The microprocessor controls are available with a LCD display (Basic version) or with a graphic display (Advanced version) and are compatible with the most wide spread communication protocols. LENNOX Software Development Team (LSDT) moreover, is able to develop control strategies according to customers special requirements.

General Data

NNOV@™ ENERGY INVERTER - R410A		0060	0130	0281	0592
Compressor speed 30 Hertz					
Total cooling capacity (1)	kW	3,2	6,3	12,3	24,4
Sensible cooling capacity	kW	3,2	6,3	12,3	24,4
SHR		1	1	1	1
Compressor speed 70 Hertz					
Total cooling capacity	kW	6,3	11	21,9	43,9
Sensible cooling capacity	kW	5,9	11	21,9	42,1
SHR		0,94	1	1	0,96
Compressor speed 110 Hertz					
Total cooling capacity	kW	9,5	15,8	31,6	62,9
Sensible cooling capacity	kW	7,6	13,4	27,2	54,7
SHR		0,8	0,85	0,86	0,87
Compressors		1 x EC twin-Rotary	1 x EC scroll	1 x EC scroll	2 x EC scroll
Air flow	m³/h	1785	3700	7280	14150
Fan		1 x EC fan	1 x EC fan	1 x EC fan	1 x EC fan
Length	mm	1875	1875	1998	1998
Height	mm	600	900	1270	2020
Depth	mm	600	600	795	795

(1) Indoor conditions 24°C/ 50% / Outdoor condition: 35 °C

Available accessories - configurations

- Freecooling optional (direct / indirect)
- Potential free alarms contacts
- Water detection kit
- Full frontal access
- Flash memory
- Microprocessor
- Electronic condenser fans speed control
- Interconnectivity (ModBus, TCP/IP, Bacnet ...)
- Dataweb
- Touch screen graphic display