



eComfort illustrates Lennox's commitment toward energy efficiency and environmentally friendly solutions

LENNOX

Think far*



eNeRGy*

by **LENNOX**

**New rooftop generation
Aircooled packaged unit**

Cooling capacity:

72 → 157 kW

Heating capacity:

67 → 151 kW

Airflow rate:

13500 → 27000 m³/h

- _ EER Class A & SEER seasonal efficiency according to EcoDesign Directive
- _ Multiscroll and Variable speed compressors
- _ eDrive variable airflow
- _ Capacity modularity
- _ High Indoor Air Quality
- _ Fully integrated heat recovery solutions

Capacity modularity

- R410A multiscroll compressor platforms in tandems
- Possibility to adapt, for a given airflow, the capacity of the unit and thus answer the real application demand (up to 5 thermodynamic platforms for a given air treatment box)
- Air treatment boxes can be ordered with no thermodynamic circuit but equipped with a water coil, in order to combine with a chiller/heatpump
- Optional variable speed compressor circuit for applications requiring low temperature difference between return and supply air (office building, fast-foods, restaurants)
- Auxiliary heaters and coolers to operate whatever the conditions or energy cost: water coils, condensing gas burners, electrical heaters, electrical pre-heaters.

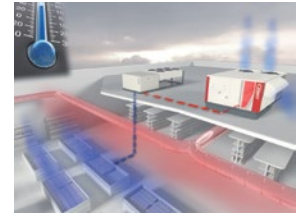


High indoor air quality

- Filtration level up to F9 with pre-filters G4+F7
- Motorised fresh air damper with enthalpy control
- Intelligent Fresh Air Management (patent O3 50616)
- CO₂ sensor to adjust the percentage of fresh air to the Indoor Air Quality

Heat recovery solutions

- Fully integrated modules recovering on exhaust air: rotary wheel or additional thermodynamic circuit
- Selection of the recovery module according to the outdoor conditions
- eRecovery to recover energy released by refrigeration equipments on the roof



eNeRGy savings

- Class A new rooftop generation
- SEER seasonal efficiency already answering future European regulation
- eDrive direct drive variable airflow on supply, extraction and condenser fans
- Free cooling and free heating with motorized damper
- Multiscroll compressor platform in tandem and variable speed compressor
- Electronic expansion valve
- Lennox controller with embedded energy savings functionalities
- Energy meter to track energy consumptions
- Lennox remote supervision for energy consumption follow-up and advanced maintenance planning

Main options

Ventilation

- Condenser fan with eDrive direct transmission (variable speed fan)

Thermodynamic circuit

- Possibility to configure the unit with a different capacity & airflow ratio (up to 5 capacity steps below the standard and one capacity step above)
- Unit version configured with no thermodynamic circuit
- Variable speed compressor as option

Auxiliary heaters and coolers

- Hot/Cold Water coil to connect to a boiler or chiller/heatpump
- Condensing gas burner
- Electric heater
- Electric pre-heater

Heat recovery solutions

- eRecovery water coil to recover calories from refrigeration equipments
- Rotary wheel to recover on exhaust air
- Additional thermodynamic circuit to recover on exhaust air



Indoor air quality

- Enthalpy control
- G4+F7 high indoor air quality
- G4+F7+F9 optimum indoor air quality
- CO₂ sensor

Control

- Customer or technician displays
- ModBus®, LonWorks®, BacNET® communication protocols
- Remote supervision (allowing to read values and change settings): ADALINKII, LENNOX cloud

eNeRGy [*] by LENNOX		075	085	105	125	140	160
Nominal airflow rate	m ³ /h	13500	15500	18900	21600	24300	27000
Nominal ESP	Pa	100	125	125	150	150	175
Cooling AH							
Net cooling capacity	kW	71,5	83,2	107,5	113,5	141,9	156,6
Total power input	kW	22,1	25,7	34,3	37,3	43,4	50,2
Net global EER		3,24	3,23	3,13	3,04	3,27	3,12
EUROVENT Energy Class		A					
Net SEER		4,65	4,22	3,93	4,02	4,01	4,00
Heating AH							
Net heating capacity	kW	67,4	80,0	102,7	109,5	136,5	150,79
Total power input	kW	19,1	24,2	31,1	34,1	41,2	46,75
Net global COP		3,52	3,31	3,30	3,21	3,32	3,23
EUROVENT energy class		A		B			
Multiscroll capacity modulation		0 → 75 kW	0 → 105 kW	0 → 125 kW	0 → 140 kW	0 → 140 kW	0 → 180 kW
Variable speed compression		Optional					

According to EN14511-2011 standard.

