



BALTIC, innovation in sustainable technologies

Guarantied sustainable performance with eDrive

With a rooftop, the major contributor to annual energy consumption is the blower fan motor. eDrive is Lennox's solution for direct transmission variable speed drives to save energy.

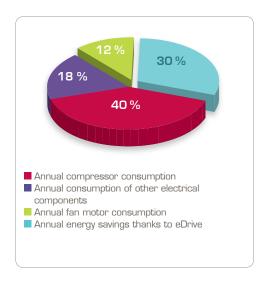
Variable speed drive



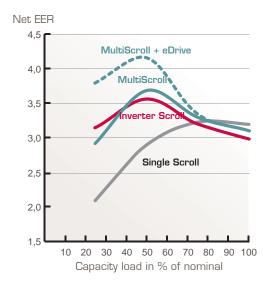
- → Airflow reduction during part load operation and dead zone.
- **Perflow** to measure and display airflow rate.
- Power factor correction to reduce current.
- ¬ Soft starter to limit inrush current during startup.
- Teasy airflow adjustment during commissioning.

Direct drive transmission

- ¬ No friction means better efficiency even at full speed.
- No efficiency reduction due to loose or worn-out belts.
- ¬ Maintenance free fan.



reDrive: 70 % energy savings on the fan or 30 % reduction of the total unit annual energy consumption. **■**



"Multiscroll "compressor technology with electronic expansion valves allows energy consumption reduction when compared to "Inverter" solutions.

Advanced refrigeration circuit

New **BALTIC** features high efficiency, environmentally friendly refrigeration circuits with Multiscroll R410A compressors, electronic expansion valves and optimized heat exchange surface area.

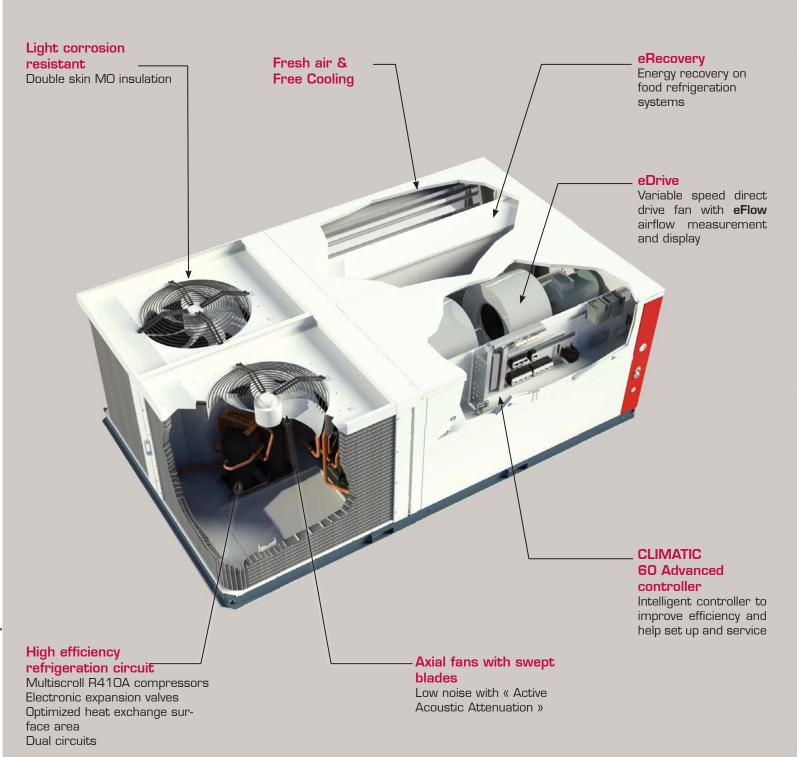
R410A, environmentally friendly refrigerant with the highest efficiency

- ¬ Pressure drop reduction improves COP and EER.
- ¬ Compressor isentropic efficiency improvement.
- ¬ Higher efficiency compared to other HFC refrigerants.
- ¬ Contains no chlorine = Zero Ozone Depletion Potential.
- ¬ Low charge limits environmental impact of the refrigerant.
- ¬ Refrigerant charge can be completed if needed.

High performance Multiscroll compressors designed for best energy efficiency year round

- ¬ Part load efficiency improvement.
- ¬ Increased heat exchange surface area.
- Telectronic expansion valve to ensure optimum efficiency.
- ¬ No electronics for speed variation control.
- ¬ Alternate defrost algorithm as standard on all dual circuit units.





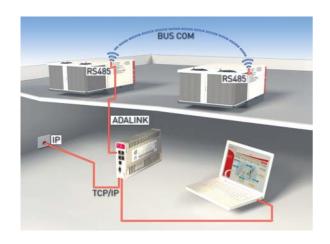
BALTIC		24	30	38	42	45	52	57	65	75	85
Gross Cooling capacity (1)	kW	23,8	30,0	38,2	40,7	44,8	51,1	57,1	65,1	76,5	83,5
Net EER (1)		3,3	3,0	3,0	2,8	3,1	3,0	3,0	2,8	3,0	2,8
Net Heating capacity (1)	kW	20,7	26,3	34,9	38,0	40,8	46,3	54,4	62,3	73,5	80,1
Net COP (1)		3,72	3,6	3,4	3,3	3,4	3,4	3,4	3,2	3,4	3,2
Efficiency Class Eurovent		А	А	А	В	А	А	А	В	А	В
Dimensions	mm	2230/2250/1225				2720/2250/1225				3665/2250/1225	

⁽¹⁾ Performances are given according to EN-14511 EUROVENT nominal conditions.



CLIMATIC 60 Advanced Controller





CLIMATIC 60 controller intelligently improves efficiency and helps set up and service operations to guarantee long lasting performance.

- Optimized operation and setup save energy
 - ¬ Provides the best energy efficiency throughout unit's life cycle.
 - Reliable operation with user friendly interfaces.
 - The Energy metering with data available on Bus.

A unit designed to communicate with its environment

- Master / Slave with back up control as standard.
- ¬ Remote monitoring and supervision ModBus, LonWork®, Backnet®.
- ¬ Adalink and Adalink Service for remote unit management.

Intelligent fresh air and free cooling control

Intelligent fresh air management

Fresh air input is mandatory to maintain comfort in buildings.

- Automatic fresh air damper calibration with patented algorithm.
- No over-consumption due to excessive fresh air input and improved air quality.

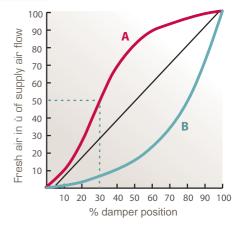
• Free cooling

Buildings that comply with new thermal regulations have good insulation and require more cooling even when outside temperature is low.

Thermodynamic cooling can be replaced by free cooling by introducing cool outside air into the building.

Energy savings with automatic calibration of fresh air

¬ 20 % Extra fresh air on a **BALTIC 085** = 1000 €/year (airflow 19000 m³/h in Paris 0.07 €/kWh, summer set point 26 °C Winter 20 °C)



Curve B ΔP return ducts < Fresh air: Not enough fresh air

Energy recovery solution

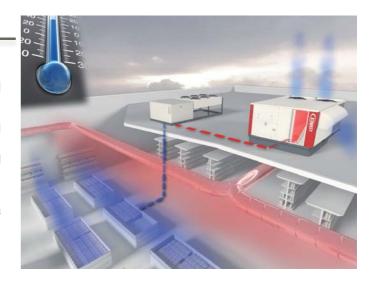
eRecovery

Food refrigeration heat recovery is the most advanced and flexible heat transfer and recovery solution on the market.

50% of supermarket annual energy consumption is used to cool food in display cases and cold rooms.

- **Period** eRecovery transfers « free » thermal energy produced by the food refrigeration systems to the sales area.
- **¬ eRecovery** can cover 100 % of the heating needs.
- The most flexible heat recovery solution: Thermodynamic or auxiliary heating available on top of heat recovery.

■ eRecoveryTM reduces annual energy bill and improves environmental impact by recovering energy wasted by the food refrigeration system. ■

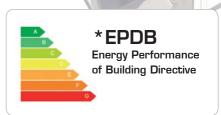


Be prepared for sustainable energy development challenges

Faced with challenges relating to competitiveness and climate change, Europe has launched several initiatives for an intelligent energy strategy.

New regulations reflect the European Union's commitments on climate change and its determination to reach 20% efficiency improvement in buildings by 2020. This will be achieved through projects and initiatives such as **EPBD***, or regional policies to promote energy efficiency and performance certification for HVAC systems.

One of the major requirements of the new **EPBD** is to set Energy Certificates for buildings which grade the energy efficiency based on the building annual energy consumption. Soon companies will have to display their energy certificates to the public.



*EPDB: Energy performance of building directive

Intelligent Energy

Europe



14001



The experience & commitment of the European leader to drive continuous energy savings

As a major player in the European HVAC market, Lennox is a reference in sustainable development and has been assembling its products in **ISO 14001 certified factories since 2007**.

eComfort Label illustrates our commitment towards energy efficient and environmentally friendly solutions.

Lennox contribution to combat rising energy costs and global warming is to design innovative, efficient and dependable products, while providing best comfort and air quality.

■ BALTIC brings you the latest technologies and 3 year warranty* for long lasting energy savings. ■



Like any other Lennox rooftop unit, BALTIC will be Eurovent certified.

BALTIC: the Best Life Cycle Cost in the market

For nearly 10 years **BALTIC** has been the reference in terms of sustainable energy efficiency and performance.

■ BALTIC provides the best life cycle cost thanks to high energy efficiency and reduced set up time and maintenance costs. ■



Low energy consumption

- ¬ For a packaged air conditioner, 90 % of the CO₂ emissions are indirect emissions caused by the energy consumption.
- 35 % energy savings with BALTIC when compared to a standard rooftop installed on a typical retail building.



Reduced maintenance costs

- Factory tested packaged system.
- **eDrive** zero maintenance ventilation with **eFlow** measurement and display.
- □ CLIMATIC 60 with CLIMATIC Wizard and remote management and supervision through GPRS Adalink service.



Better recycling management

- ¬ ISO 14001 certified since 2007.
- **¬** R410A to reduce refrigerant charge.
- Reduced material usage with compact packaged design (copper, aluminium...).





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