Ecodesign directive 2009/125/EC
VENTILATION UNITS

1er January 2017

Ecodesign: origins & perspectives

- KYOTO (1997), COP21 (Paris 2015) and COP 22 (Marrackech 2016) define the targets to restrict the global warming to 1,5°C.
- Ecodesign directive 2009/125/EC define a framework for all energy-consuming equipments. It is mandatory for all products sold and used in European Union.
- The regulations resulting from Ecodesign define, for each product family, minimum efficiencies to achieve in 2 steps.

Rules

The regulation ensue from Ecodesign are mandatory to apply, even if the local governments don't implement them into national regulations or decrees:

- **Electric motors EC 640/2009:**
  1st tier: 16th june 2011 . . . . . motors IE2
  2nd tier: 1st january 2015 . . motors IE3 if P>7.5 kW
  3rd tier: 1st january 2017 . . moteurs IE3
- **Fans EU 327/2011:**
  1st tier: 1st january 2013
  2nd tier: 1st january 2015
- **Air conditioners (P<12kW) and comfort fans EU 206/2012:**
  1st tier: 1st january 2013
  2nd tier: 1st january 2014
- **Ventilation units EU 1253/2014:**
  1st tier: 1st january 2016
  2nd tier: 1st january 2018
- **Space heaters and combination heaters EU 813/2013:**
  1st tier: 26th september 2015
  2nd tier: 26th september 2017
- **Low temperature process chillers and condensing units EU 2015/1095 (dedicated to industrial application and/or refrigeration):**
  1st tier: 1st July 2016
  2nd tier: 1st january 2018
- **Air heating products, cooling products, high temperature process chillers and fan coil units EU 2016/2281:**
  1st tier: 1st July 2018
  2nd tier: 1st january 2021

The following directive are not connected to Ecodesign, but they are also directives and European regulations:

- F gaz (517/2014/EU) Fluorinated greenhouse gases used,
- DESP (2014/68/EU) for pressure equipment,
- DEEE (2012/19/EU) for waste electrical and electronic equipment,
- Machinery directive (2006/42/EC),
- Low voltage directive (2014/35/EU),
- Electromagnetic compatibility (2014/30/EU)....

Rule UE 1253/2014

Which VENTILATION UNITS are concerned by regulations UE 1253/2014 ?

Are concerned since 1st january 2016 :

- The **CLEANAIR LX** air handling unit,
- The **eNeRGy** range, without condenser

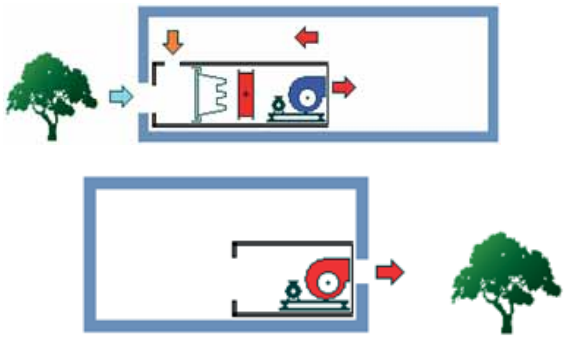
Are not concerned:

- Ventilation units equiped with a thermodynamic energy recovery module
- Rooftops units (included in the rule nr UE2016/2281).

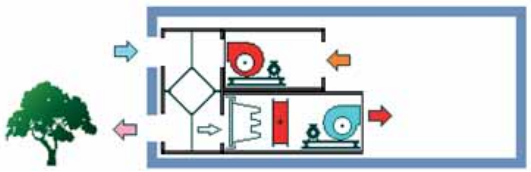
It means that :

According to the UE1253/2014 rule, the **unidirectional ventilation units** (UVU) are diffferent from the **Bidirectional ventilation units** (BVU).

Unidirectional ventilation units (UVU) :
Air stream from outside toward inside **or** from inside toward outside (with or without mixing section).



Bidirectional ventilation units (BVU)
Air stream from outside toward inside **and** from inside toward outside (with or without mixing section).



Requirements for unidirectional ventilation units (UVU) :

	2016	2018
Fan efficiency	Please consult the texts of the rule nr UE1253/2014 or the selection software	
Fan motor	2-speed or variable speed fan motor (may be installed by the installer)*	
Clogging of the filter	-	Filter change warning signal (may be installed by the installer)*

Requirements for bidirectional ventilation units (BVU)

	2016	2018
Fan efficiency	Please consult the texts of the rule nr UE1253/2014 or the selection software	
Fan motor	2-speed or variable speed fan motor (may be installed by the installer)*	
Clogging of the filter	-	Filter change warning signal (may be installed by the installer)*
Fan absorbed power	Please consult the texts of the rule nr UE1253/2014 or the selection software	
Heat recovery module	It must be possible to bypass the energy recovery system (by-pass system must be integrated in the unit).	
Minimum efficiency of the heat recovery system (SRC)	Please consult the texts of the rule nr UE1253/2014 or the selection software	

* In accordance with the guidelines of the manufacturer.

Ranges concerned

CLEANAIR LX

eNeRGy WITHOUT CONDENSEUR