

Ecodesign directive 2009/125/EC CHILLERS range





1st June 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)....







Rules EU 2016/2281 & 813/2013



Which CHILLERS range products are concerned by regulations EU 2016/2281 & 813/2013?

Will be concerned from 1st January 2018:

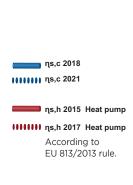
- · Air cooled liquid chillers,
- · Water cooled liquid chillers.

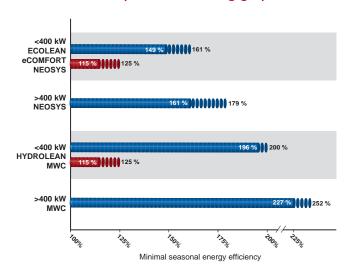
Are concerned since 26th September 2015:

- · Air cooled heat pumps,
- · Water cooled heat pumps.

It means that:

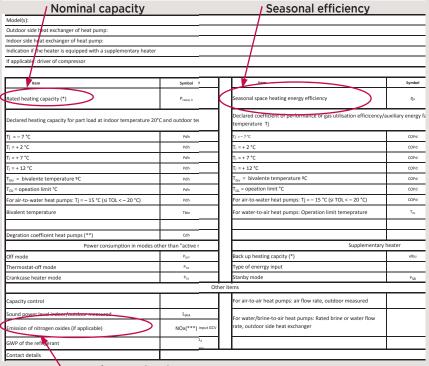
The minimum performances to achieve are summed up in the following graph:





A new document

From the 1st of January 2018, each unit will be delivered with a datasheet as defined in EU 2281/2016.



Ranges concerned





AQUA4



HYDROLEAN



1st January 2017 Rev 02/2018



Sound power level Outdoor/Indoor