

Condensing units | EcoDesign

EcoDesign and energy efficiency

The EU EcoDesign directive aims to improve the overall performance of products and thereby protect the environment by reducing indirect CO₂ emissions. Manufacturers must comply to get the CE marking on their products. **ENTR Lot 1:** Regulation 2015/1095, 2015/1094 for Professional Refrigeration impacts the condensing units.


EcoDesign

High SEPR/COP cuts energy costs

See how much you can save by choosing Danfoss.
E.g. in a cold room with 9 kW cooling capacity.

SEPR: Seasonal Energy Performance Ratio

Optyma™ Plus INVERTER vs mechanically modulated technology*

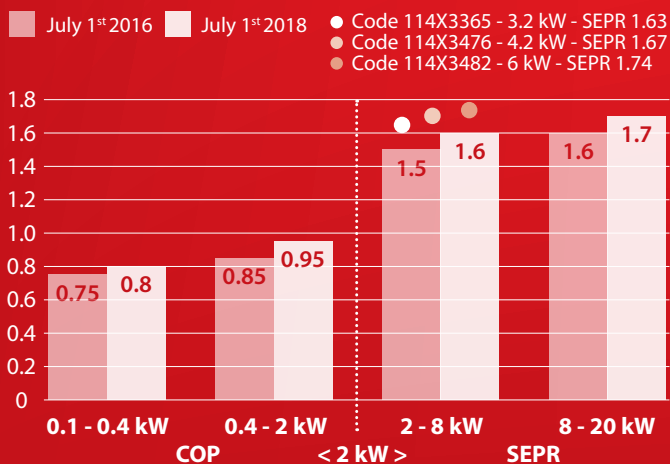
9 kW R407F		?
UNIT	DANFOSS	MARKET
SEPR	3.84	2.5
USAGE	14 000 kWh	21 600 kWh
YEARLY ENERGY CONSUMPTION SAVED: 7,600 KWH		
SAVINGS BASED ON COST OF ENERGY:		
FRANCE: 0.11€ / 1 KWH = 7 600 x 0.11 = 836€		
UK: 0.15€ / 1 KWH = 7 600 x 0.15 = 1 140€		
GERMANY: 0.20€ / 1 KWH = 7 600 x 0.20 = 1 520€		

1 520€

annual electricity savings made by your customer in Germany

Optyma™ Plus units comply with EcoDesign 2018

E.g. units with R452A refrigerant, low temperature



Benefits for everyone



Electricity consumption savings with higher SEPR/COP condensing units



Future-proof units complying with regulation



Transparent way to compare the performance of condensing units



Coolselector®2 software provides EcoDesign report



Eco-friendly products

EcoDesign in 3 steps



2 DATES:
JULY 1ST 2016 AND 2018

From July 1st 2016, all units placed for the first time on the market in the European Union have to comply with the **Minimum Efficiency Performance Standards (MEPS)**. **From July 1st 2018, these MEPS are more stringent.**



SEASONAL ENERGY PERFORMANCE RATIO (SEPR)

SEPR is the value to measure the energy performance of the condensing units:

- For low temperatures: above 2 kW
- For medium temperatures: above 5 kW
- Below these limits, COP is the value



AFFECTED APPLICATIONS WITHIN REFRIGERATION

- Condensing units
- Professional refrigerated storage cabinets
- Blast cabinets
- Process chillers

Find out more at coldroom.danfoss.com