



EU ECODESIGN REGULATION



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The Ecodesign Directive

The COMMISSION REGULATION (EU) dossier No 11898/14 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for professional storage cabinets, **CONDENSING UNITS** and process chillers will establish **Minimum Efficiency Performance Standards (MEPS)** for new products being placed onto the EU market as of July 1st 2016.

The Ecodesign Directive aims to reduce the environmental impact of energy-related products during their entire lifetime, it provides a framework with specific and mandatory requirements for improving product quality and environmental protection, reducing energy and resources consumption and significantly contributing to the EU's 2020 energy efficiency objective.

In addition to this, the Energy Labelling gives clear information about the energy consumption and performance of specified appliances, helping consumers and end users to select energy efficient products allowing them to make informed purchasing decisions.

The EU legislation on Ecodesign is an effective tool for eliminating the least performing products from the market. As regards to the refrigeration systems, this regulation shall apply to professional refrigerated storage cabinets and blast cabinets, condensing units operating at low and medium temperature (monoblock units or split units are excluded). If, for instance, Ecodesign requirements for domestic refrigerators do not respect the Ecodesign Directive criteria, any refrigerator which does not comply with these requirements will not be CE marked and therefore cannot be sold in the European Union.

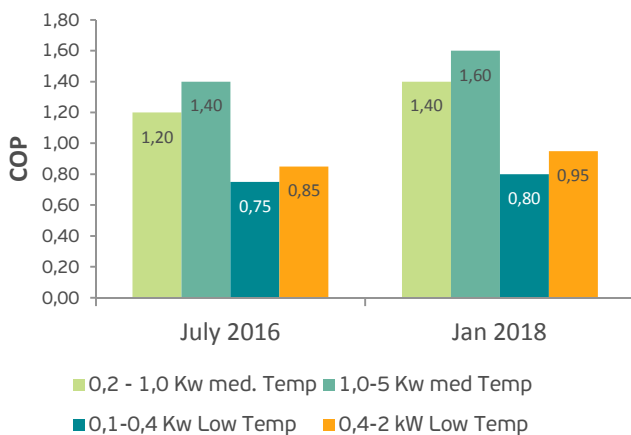


The Ecodesign requirements

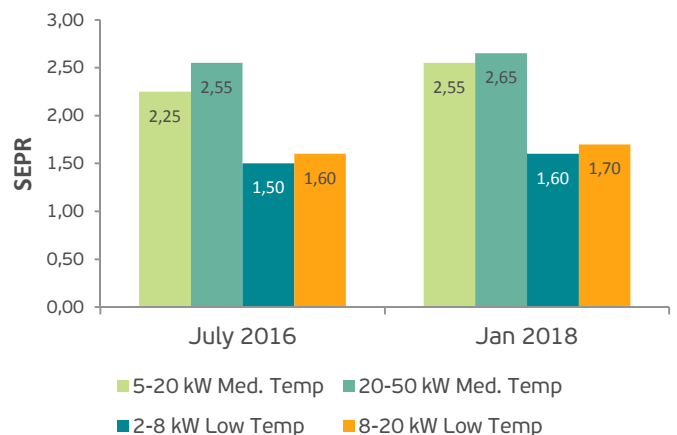
The coefficient of performance (COP) and the seasonal energy performance ratio (SEPR) of the condensing units shall not drop below the values indicated in the following table:

Operating temperature	Rated capacity P_A	Applicable ratio	Value
Medium	$0,2 \text{ kW} \leq P_A \leq 1 \text{ kW}$	COP	1,20
	$1 \text{ kW} < P_A \leq 5 \text{ kW}$	COP	1,40
	$5 \text{ kW} < P_A \leq 20 \text{ kW}$	SEPR	2,25
	$20 \text{ kW} < P_A \leq 50 \text{ kW}$	SEPR	2,35
Low	$0,1 \text{ kW} \leq P_A \leq 0,4 \text{ kW}$	COP	0,75
	$0,4 \text{ kW} < P_A \leq 2 \text{ kW}$	COP	0,85
	$2 \text{ kW} < P_A \leq 8 \text{ kW}$	SEPR	1,50
	$8 \text{ kW} < P_A \leq 20 \text{ kW}$	SEPR	1,60

COP Condensing Units



SEPR Codensing Units



Effectively July 1st, 2016, the entire Embraco condensing units range will meet the standards required by this new regulation, ensuring the conformity of its products.

