



Eurovent Recommendation on Taxonomy benchmarks for chillers

First Edition

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Introduction

The Taxonomy Climate Delegated Act recognises the manufacture of energy-efficient HVACR equipment as an activity that can contribute to climate change mitigation. In practice, alignment is currently possible for heat pumps and for products that fall within the top two populated classes of the EU Energy Label.

However, many HVACR products, in particular B2B and cooling-only equipment, are not covered by these Substantial Contribution Criteria. This is not because they lack climate relevance, but because no energy label exists for them.

This Recommendation proposes clear energy efficiency benchmarks for chillers in that category, based on best available technologies as identified in the Annexes of the relevant Ecodesign regulations and complemented as appropriate by available real product performance data from the Eurovent certified product directory. The objective is to apply the same performance logic used for labelled products and enable consistent assessment of Taxonomy alignment across HVACR categories.

Efficiency benchmarks

Product group	Ecodesign regulation	Performance metric	Type	Performance benchmark
Low temperature process chillers	2015/1095 Annex XII	SEPR	Air-cooled, medium T, P A $\leq$ 300 kW	3,74 SEPR
			Air-cooled, medium T, P A > 300 kW	3,84 SEPR
			Air-cooled, low T, P A $\leq$ 200 kW	1,9 SEPR
			Air-cooled, low T, P A > 200 kW	1,95 SEPR
			Water-cooled, medium T, P A $\leq$ 300 kW	3,87 SEPR
			Water-cooled, medium T, P A > 300 kW	4,5 SEPR
			Water-cooled, low T, P A $\leq$ 200 kW	2,3 SEPR
			Water-cooled, low T, P A > 200 kW	2,7 SEPR
High temperature process chillers	2016/2281 Annex V	SEPR	Air-cooled, P A < 200 kW	6,23 SEPR
			Air-cooled, 200 kW $\leq$ P A < 400 kW	6,33 SEPR
			Air-cooled, P A $\geq$ 400 kW	6,5 SEPR
			Water-cooled, P A < 200 kW	8,2 SEPR
			Water-cooled, 200 kW $\leq$ P A < 400 kW	9,24 SEPR
			Water-cooled, 400 kW $\leq$ P A < 1 000 kW	9,42 SEPR
			Water-cooled, P A $\geq$ 1 000 kW	9,19 SEPR
Comfort chillers		$\eta_{s,c}$	Air-to-water, P rated,c < 200 kW	189 %
			Air-to-water, P rated,c $\geq$ 200 kW	202 %
			Water/brine-to-water, P rated,c < 200 kW	251 %
			Water/brine-to-water, P rated,c $\geq$ 200 kW	331 %

About Eurovent

Eurovent is the voice of the European HVACR industry, representing over 100 companies directly and more than 1.000 indirectly through our 18 national associations. The majority are small and medium-sized companies that manufacture indoor climate, process cooling, and cold chain technologies across more than 350 manufacturing sites in Europe. They generate a combined annual turnover of more than 55 billion EUR and employ over 200.000 Europeans in good quality tech jobs.

Mission

Eurovent's mission is to bring together HVACR technology providers to collaborate with policymakers and other stakeholders towards conditions that foster fair competition, innovation, and sustainable growth for the European HVACR industry.

Vision

Eurovent's vision is an innovative and competitive European HVACR industry that enables sustainable development in Europe and globally, which works for people, businesses, and the environment.

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