

DIN EN 13215:2020-12 (E)

Condensing units for refrigeration - Rating conditions, tolerances and presentation of manufacturer's performance data (includes Amendment : 2020)

Contents		Page
European foreword		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	5
4	Symbols and abbreviations	6
5	Parameters for the presentation of performance data	7
6	General requirements	7
7	Performance data	8
7.1	General	8
7.2	Part load performance data	8
7.3	Tabular or graphical form	8
7.4	Determination of the power absorbed by the condensing unit	8
7.4.1	Condensing units including the compressor motor	8
7.4.2	Motors with a specific factory assembled or factory specified means for variable speed	9
7.4.3	Externally driven compressors without motor	9
8	Rating conditions	9
8.1	General	9
8.2	Standard reference points	9
8.3	Air cooled condensing units	10
8.3.1	General	10
8.3.2	Data for SEPR calculation	10
8.4	Water cooled condensing units	11
9	Tolerances	11
10	Correction factors	11
10.1	Superheat	11
10.2	Compressors speed	12
Annex A(normative) Calculation of SEPR		13
A.1	General	13
A.2	Condensing unit without capacity control	13
A.3	Condensing unit with stepwise capacity control	13
A.4	Calculation of SEPR	14
Annex B(normative) Determination of evaporating temperature with refrigerant mixtures		18
Annex ZA(informative) Relationship between this European Standard and the eco-design requirements of Commission Regulation (EU) No 2015/1095		20
Bibliography		21

Tables Table 1 -- Symbols and abbreviations	6
Table 2 -- Indices	7
Table 3 -- Parameters for the presentation of performance data	7
Table 4 -- Standard reference points	9
Table 5 -- Actual performance in relation to published data	11
Table A.1 -- Required input for SEPR calculation	14
Table A.2 -- Ambient temperatures and duration for SEPR determination	15
Table ZA.1 -- Correspondence between this European Standard and Commission Regulation (EU) No 2015/1095 of 5 May 2015 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for professional refrigerated storage cabinets, blast cabinets, condensing units and process chillers and Commission's standardization request M/495 (Ecodesign)	20