

Working Document on a possible transitional measurement method

DRAFT Commission communication in the framework of the implementation of the Commission Regulation (EC) No XX/20XX of implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for compressors for standard air applications

(1) Publication of titles and references of transitory measurement methods¹

The organisation publishing references with prefix 'EN' is CEN. References with prefix 'ISO' are published by ISO..

Measured parameter	Organisation	Reference/Title	Note
<i>Isentropic efficiency</i>	European Commission	Commission Regulation No xxxx, Annex II	
<i>Volume flow rate</i>	ISO	ISO 1217:2009, Displacement compressors - Acceptance tests Paragraph 5.6 referring to: ISO 5167-1 Measurement of fluid flow by means of pressure differential devices inserted in circular cross-section conduits running full -- Part 1: General principles and requirements or ISO 9300 Measurement of gas flow by means of critical flow Venturi nozzles	
<i>Outlet pressure</i>		ISO 1217:2009, Displacement compressors - Acceptance tests, Paragraph 5.2	
<i>Maximum flow at full load outlet pressure</i>		ISO 1217:2009, Displacement compressors - Acceptance tests, Paragraph 5.2	Maximum pressure attainable at full flow, usually the unload pressure setting for load/no load control or the maximum pressure attainable before capacity control begins. May require additional power.
<i>Drive motor rated output power</i>		In accordance with Commission Regulation No 640/2009	
<i>Drive motor nominal efficiency</i>		In accordance with Commission Regulation No 640/2009	
<i>Fan motor electric input power</i>		In accordance with Commission Regulation No 327/2011	
<i>Fan motor overall efficiency</i>		In accordance with Commission Regulation No 327/2011	

¹ These transitory measurement methods are meant to be replaced by harmonised standard(s). When available, the reference(s) of harmonised standard(s) will be published in the Official Journal of the European Union in accordance with Articles 9 and 10 of Directive 2005/32/EC.

<i>Basic package input power</i>	ISO	ISO 1217:2009 Displacement compressors - Acceptance tests Paragraph 5.7	
<i>Basic package input power at zero volume flow rate</i>			Tolerance is specified in ISO 1217, Annex C. The manufacturer may also measure at pressure ratio of 1, and shall state the method used.
<i>Basic package input power at full load outlet pressure</i>			Total package input power at other than reported operating points will vary with control strategy. For variable speed products the basic package input power and capacity should be stated for a volume flow of 100%, 70% and 40% of the volume flow rate at full load outlet pressure
<i>Emitted sound pressure level</i>	DIN EN ISO	DIN EN ISO 2151:2009 Acoustics - Noise test code for compressors and vacuum pumps - Engineering method (grade 2)	