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 methods[1]

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

Measured parameter	**Organisation**	**Reference/Title**	**Note**
Isentropic efficiency	European Commission	Commission Regulation No xxxx, Annex II	
Volume flow rate	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	
Outlet pressure		ISO 1217:2009, Displacement compressors - Acceptance tests, Paragraph 5.2	
Maximum flow at full load outlet pressure		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.
Drive motor rated output power		In accordance with Commission Regulation No 640/2009	
Drive motor nominal efficiency		In accordance with Commission Regulation No 640/2009	
Fan motor electric input power		In accordance with Commission Regulation No 327/2011	
Fan motor overall efficiency		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.

Basic package input power	ISO	ISO 1217:2009 Displacement compressors - Acceptance tests Paragraph 5.7	
Basic package input power at zero volume flow rate			Tolerance is specified in ISO 1217, Annex C. The manufacturer may also measure at pressure ratio of 1, and shall state the method used.
Basic package input power at full load outlet pressure			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
Emitted sound pressure level	DIN EN ISO	DIN EN ISO 2151:2009 Acoustics - Noise test code for compressors and vacuum pumps - Engineering method (grade 2)	