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Item 5 (b) of the provisional agenda

Proposals for amendments to ATP: Pending proposals

Air flow measurement of a refrigeration unit*

Transmitted by the Government of France

Introduction

1. The ATP Agreement signed in 1970 took into account all the standards in force at that time. It was later updated to keep it in line with changing standards. For the measurement of air flow in a refrigeration unit, it is proposed to use one of the following standards: BS 848, ISO 5801, AMCA 210-85, DIN 24163, NFE 36101, NF X10.102, DIN 4796.
2. However, as standard AMCA 210-85 was updated in 2007, it would thus be desirable for ATP to refer to the most recent version, whose reference is AMCA 210-07.

Proposal

3. It is proposed to update ATP with a reference to the new version of standard AMCA-85 (AMCA 210-07).
4. AMCA 210-07 establishes test methods for laboratory testing making it possible to determine aerodynamic performance in terms of air flow, pressure, rotation speed ...
5. The main development in the new version is that it adopts the International System of Units (SI). It is also proposed to keep the old version on the list.

* In accordance with the programme of work of the Inland Transport Committee for 2010–2014 (ECE/TRANS/208, para. 106; ECE/TRANS/2010/8, activity 02.11).

Impact of the proposal

6. No additional costs for the tests carried out; just the need to update the parameters of the equations for calculation of the air flow of the refrigeration unit.

Proposed amendment

Annex 1, appendix 2

4. Procedure for measuring the effective refrigerating capacity W_o of a unit when the evaporator is free from frost

[...]

4.3.4 Checks

The following should be verified and the methods used indicated on the test report:

- (i) The defrosting system and the thermostat are functioning correctly;
- (ii) The rate of air circulation is that specified by the manufacturer. If the air circulation of a refrigeration unit's evaporator fans is to be measured, methods capable of measuring the total delivery volume shall be used. Use of one of the relevant existing standards, i.e. BS 848, ISO 5801, AMCA 210-85, AMCA 210-07, DIN 24163, NFE 36101, NF X10.102, DIN 4796 is recommended;