

Workgroup standards

Annual meeting 2022, April 28
Heinz Jürgensen



EN standard activities

EN 12693:2008 revision Compressor safety



New work item launched to finish update

electrical safety testing with built in inverter with DC high voltage, like in EN60335



alignments of air gaps and creeping distances



integration of Harmonisation Assessment Officer comments



last preparations for inquiry voting

EN 12900:2013 revision Compressor performance rating



New preliminary work item launched for update

modernisation, tables reorganised

Annex for recalculation of dew point to mid point evaporation/condensation for temperature glide refrigerants

preparations done in Asercom

Some feedback from users

New work item proposal at TC113 meeting June 2022



Other standardisation work

Compressor performance data Testing and rating



ASHRAE standard 23-2022 Methods for Performance Testing Positive Displacement Refrigerant Compressors

ASHRAE standard 225-2020 Methods for Performance Testing Centrifugal Refrigerant Compressors

AHRI standard 540:2020 Performance Rating of Positive Displacement Refrigerant Compressors

AHRI standard 1520 (out for voting) Performance Rating of Centrifugal Refrigerant Compressors

ISO TC86 SC4 Refrigerant compressors



3 new standard projects targeted 2022-02

Performance rating of positive displacement compressors lead CN national committee member

Performance rating of centrifugal compressors lead CN national committee member

Performance testing of refrigerant compressors lead DE national committee member

IEC SC 61 C Larger charge flammable refrigerant



IEC 60335-2-89 Commercial refrigerators and freezers

Today: flammable up to 150 g covered

Draft: up to ca 500 g R290, 1.2 kg A2L

More strict rules for larger charge

Final vote: 2019-04 ACCEPTED (after some formal corrections)

EN 60335-2-89 be released September 2022

alignments were necessary

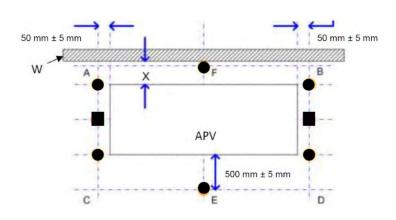
IEC SC 61 C IEC 60335-2-89 revision

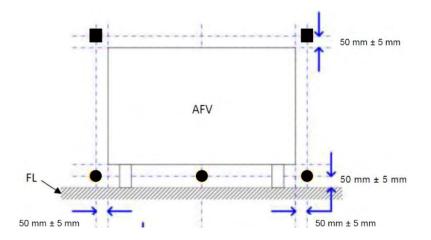


New leak test setup

<LFL at all sensor points

Also with door opening





Conclusions



EN - for EU / EEA

AHRI/ASHRAE - for North America

ISO - for many other countries

Compressors and condensing units mainly Safety and performance data alignment and experience exchange

Close contacts and cooperation with associations and standardisation bodies