

Liebherr Hausgeräte Lienz GmbH

Dr.-Hans-Liebherr-Straße 1
9900 Lienz, Österreich

Phone +43 50 80920

info.lwl@liebherr.com
www.liebherr.com

Waldner Rene

Central Product Manager
Scientific/Health-Care

rene.waldner@liebherr.com

To whom it may concern

Information acc. DIN 13277 and DIN 58345 pharmacy refrigerator

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Dear customer,

for the safe storage of temperature-sensitive products in the laboratory and medical environment, minimum requirements have been defined by various DIN standards in the past.

These standards were created separately for different applications:

- Blood storage refrigerators: DIN 58371:2010-09
- Plasma storage appliances: DIN 58375:2004-11
- Refrigerators for pharmaceutical products: DIN 58345:2007-09
- Refrigerators and freezers for laboratory use: DIN 13221:2016-08

With the introduction of the new DIN 13277:2022-05 in May 2022, all the above applications have now been brought together in one standard for the first time.

The transition period to the predecessor standards was until 31.10.2022.

Compared to DIN 58371:2010-09, DIN 58375:2004-11, DIN 58345:2007-09 and DIN 13221:2016-08, the following changes have been made:

- the requirements and tests of all previous documents have been consolidated and updated to the state of the art in science and technology,
- terms and definitions have been adapted and supplemented,
- measurement procedures (without appliance loading) for the temperature test have been standardized and adapted,
- labelling has been updated and adapted,
- the informative Annex A "Exemplary method for product temperature testing of loaded blood bank refrigerators and plasma storage appliances has been added,
- references and cross-references have been updated,
- the standard has been editorially revised.

Relevant changes DIN 13277:2022-05 to DIN 58345:2007-09 regarding the safe storage of medicines:

- For the acoustic signal, there shall be the possibility of alarm suppression. The signal must recur automatically at intervals of no more than 30 min until the setpoint temperature is reached. Permanent suppression of the acoustic signal must only be possible by authorised personnel.
- Modification of the number and arrangement of temperature measuring points for determining the usable space temperature
- Determination of the product temperature at a door opening of 60 seconds
- Indication of temperature homogeneity and constancy in the operating instructions.

The above-mentioned changes of DIN 13277 are already included in Liebherr MKUv/MKv models, produced before October 2022:

- All MKUv/MKv units offer the option of an alarm repeat activation.
- The new measurement procedure of DIN 13277 is covered by measurements according to IEC 60068-3
- The measurement according to IEC 60068-3 includes a test of the interior temperature with a 60-second door opening time
- Temperature homogeneity and constancy are also covered by the measurements according to IEC 60068-3.

Liebherr pharmacy refrigerators that were produced before October 2022 and comply with DIN 58345, can therefore continue to be used for the storage of pharmaceuticals without hesitation.

Applies to the following models:

MKUv 1610 Index 20# - 23#

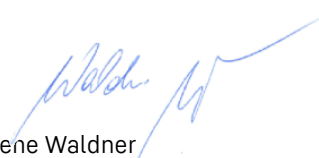
MKUv 1613 Index 20# - 22#

MKv 3910 Index 20# - 23#

MKv 3913 Index 20# - 22#

MKv 5710 Index 20#

(# ...spare-part index A-Z, detailed model name can be found on type-plate)



Rene Waldner
Central Product Manager Scientific/Health-Care
Liebherr Appliances