

Why you should be using a Refrigerator Thermometer

為什麼你應該使用冰箱溫度計

ebro TMX Series 系列 - Digital Refrigerator Thermometer - 數位冰箱溫度計

Why do you need a refrigerator thermometer? The answer is quite simple - that is for you to have complete visibility on the exact temperature inside refrigerators and freezers, which is especially critical for pharmaceutical and healthcare products.

為什麼需要冰箱溫度計？答案相當簡單 - 即讓您完全了解確切的冰箱和冰櫃內的溫度，這尤其重要用於製藥和保健產品。

All refrigerators used for pharmaceuticals, chemicals, greenhouses, blood banks, food and beverage must be monitored. Depending on the PIC/S definition, a deep freeze temperature should be kept below 15 °C and refrigerators should be within +2 °C to +8 °C. 所有用於製藥、化工、溫室、血庫、食品和飲料的冰箱必須監測。取決於PIC/S 定義，深度冷凍溫度應保持在15 °C 以下而冰箱應在 +2 °C 至 +8 °C 內。

Freezers and refrigerators are standard equipment for laboratories, microbiological research utilities, hospitals and pharmacies. Some modern refrigerators have built-in digital thermometers in the unit that makes it easier to set and monitor the desired temperatures. But it is also important to know that the temperatures shown on the refrigerator display are not always representative of the entire fridge compartment. In addition, when taking into consideration that the cooling capability can degrade with time, it is best to check the temperature with a secondary thermometer to ensure the unit is still functioning as expected and verify the accuracy of the built-in thermometer.

冰櫃和冰箱是實驗室的標準設備，微生物研究公用事業、醫院和藥房。一些現代冰箱有內置的數字溫度計，這使得它更容易設置和監控所需的溫度。但也很重要的是要知道冰箱顯示屏上顯示的溫度並不總是代表整個冷藏室。此外，當考慮到考慮到冷卻能力會隨著時間的推移而降低，最好使用輔助溫度計檢查溫度以確保裝置靜止按預期運行並驗證內置溫度計的準確性。



ebro TMX Series 系列 - Digital Refrigerator Thermometer
- 數位冰箱溫度計

"...it is also important to know that the temperatures shown on the refrigerator display are not always representative of the entire fridge compartment."

...同樣重要的是要知道冰箱顯示屏上顯示的溫度並不總是代表整個冷藏室。"

Term 項目	Definition 定義
Temperature 溫度	Deep freeze 深度凍結: Below低於 -15 °C
	In a refrigerator 在冰箱裡: +2 °C to +8 °C
	Cold or Cool寒冷或冷涼: +8 °C to +15 °C
	Room Temperature室溫: +15 °C to + 25 °C
Ambient周圍的:	The required storage temperature of non refrigerated medicinal product; usually stated on the product as "store below 25 °C" or "store below 30 °C". 非冷藏藥品所需的儲存溫度：通常在產品上註明“儲存在 25 °C 以下”或“儲存在 30 °C 以下”。

Pic/s guide to good distribution practice for medicinal products Pic/s 藥品良好配送規範指南, pe 011-1 1 June 2014 <https://picscheme.org/docview/3450>

It is significantly important to use an appropriate refrigerator thermometer for fridges which are part of medical and healthcare processes that require precise temperature settings. Furthermore, we highly recommend to choose a thermometer with MAX/MIN display on it. When monitoring temperature sensible products, the minimum and maximum values must be recorded daily and documented manually. Last but not least, make sure to select a product with a calibration certificate. 對於需要精確溫度設置的醫療和保健流程的一部分的冰箱，使用合適的冰箱溫度計非常重要。此外，我們強烈建議選擇帶有 MAX/MIN 顯示的溫度計。在監測溫度敏感產品時，必須每天記錄最小值和最大值並手動記錄。最後但並非最不重要的一點是，確保選擇帶有校準證書的產品。

Please take a look at ebro's TMX Digital Refrigerator Thermometer which offers some important features for you to consider when choosing your next refrigerator thermometer. 請查看 ebro 的 TMX 數字冰箱溫度計，它提供了一些重要功能，供您在選擇下一個冰箱溫度計時考慮。

ebro TMX Series系列- Digital Refrigerator Thermometer – 數位冰箱溫度計

- One channel or Two channels available 一個管道或兩個管道可用
- Bottle insulates sensor option, prevent from rapid temperature changes when refrigerator door is opened 瓶子絕緣傳感器選項，防止冰箱門打開時溫度急劇變化
- Wide temperature range -50 °C ~ +70 °C 寬溫度範圍 -50 °C ~ +70 °C
- Big display of current temperature and MAX/MIN value 當前溫度和最大值/最小值的大顯示屏
- 3 year calibration certificate 3 年校準證書
- Settable high and low limit 可設置的上下限
- Double alarm: Acoustic and Optical 雙重報警：聲光報警
- Magnetic and pull-out stand attachment 磁性和拉出式支架附件



ebro TMX Series系列 - Digital Refrigerator Thermometer
- 數位冰箱溫度計



ebro TMX Series系列 - Digital Refrigerator Thermometer
- 數位冰箱溫度計

-ebro-
a xylem brand

