

Benchtop TM range

Useful volume : 55 or 80 litres

Temperature range : from -65°C to +150°C



Benchtops enable a product to be put through temperature tests in order to reveal its possible defects or to determine its life length.

They can be used at any stage – from research to production – and are particularly valued in quality control because of the tests easy reproducibility.

Their self sufficiency in use (an electrical socket is enough) and their dimensions grant them a great mobility : they can be installed on a table or a laboratory bench or, when on the cart (optional), be at working level.



Each model offers different characteristics :

- **TM** : full door, single-stage compressor (viewing window and cart as options)
from -30°C to +150°C (+200°C as an option)
- **TMX** : full door, cascade compressors (viewing window and cart as options)
from -60°C to +150°C (+200°C as an option)
- **TMT** : viewing window and light, cart, cascade compressors
from -65°C to +150°C (+200°C as an option)

Temperature rate : 3°C/min* within the range**

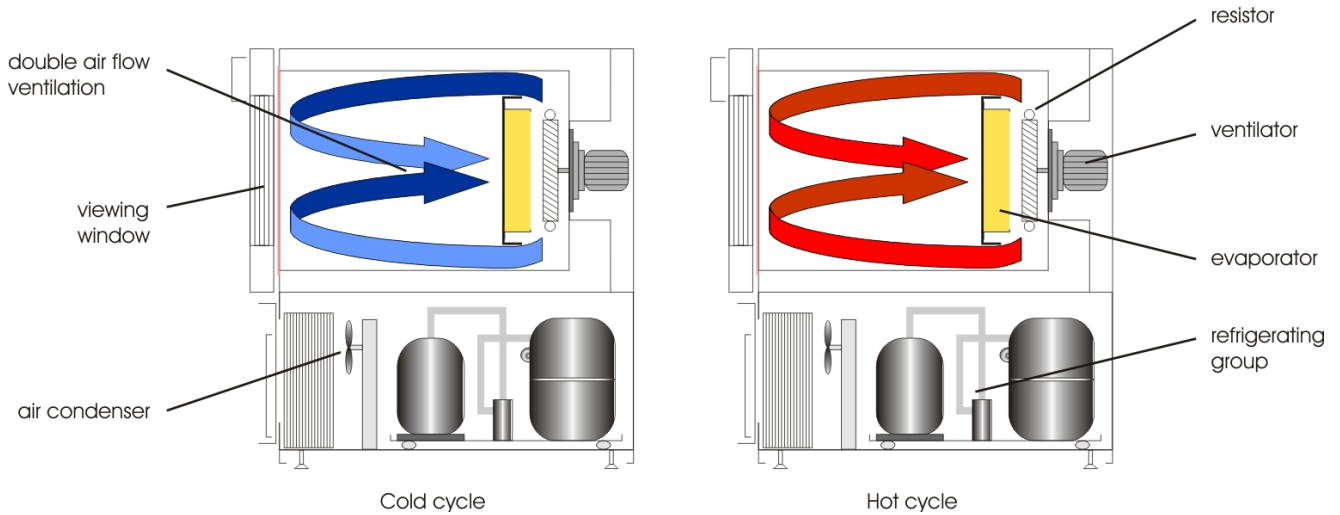
*depending on the use conditions **calculation according to the NFX 15-140 standard

Dimensions (mm)	Chamber useful			Chamber overall			Cart	Grinding	
	W	D	H	W	D	H	H	W	D
TM / TMX / TMT 55	420	380	350	670	780	905	710	390	370
TM / TMX / TMT 80	500	400	400	705	815	1015	640	470	390



Functioning principles

A double air flow ventilation ensures a perfect homogeneity in the cabinet and allows a heating / cooling so that the set temperature is reached faster.



Construction



The **TM benchtop** consists of a stainless steel cabinet and of a removable gridding on racks where the samples can be put onto.

A 50x60mm notch on the left side makes it easier for the cables to go through and the right side (hinges side) is cut by a 80mm Ø hole.

The safety is optimized by an external thermostat that can be adjusted by the user. The benchtop is also equipped with a 220V safety socket



and a timer.

Various options are offered, such as a cart with pivoting and braking casters (as standard on the TMT model), a multiglass viewing window with light (as standard on the TMT model), extra gridings or port holes, a high and low temperature safety controller, a temperature portable recorder, etc.



Regulation

TM benchtops are equipped in standard with PID regulator that has an accuracy of $\pm 0,15\%$ within the range.



It allows the cabinet temperature to be regulated on a set point and/or a dwell and to be digitally displayed.

Data are transmitted by RS 232 (protocol modbus) and RS 485 connections.

Options : - F4 type regulator-programmer

- RS 232 and RS 485 cables
- Possibility of PC piloting (via RS 232, protocol modbus).