THIEMT

THIEMT Forcing Tester TFT

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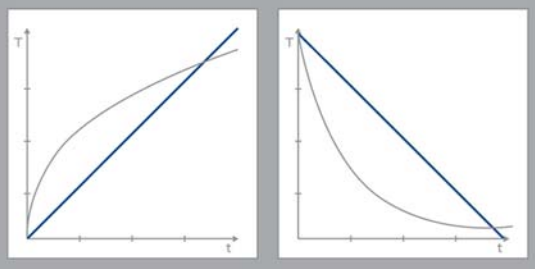
The THIEMT Forcing Tester TFT is an alternate tempering bath for the simulation of the ageing process of bottled beer. The forcing test standard, developed by THIEMT, is already rolled in; additional, individual programms are freely programmable. The operating optionally takes place straight at the device or by the TQS-Software via PC.

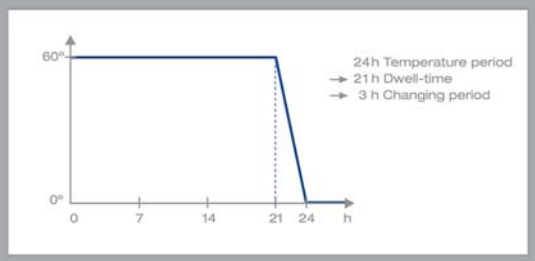
The standard version TFT takes up 40 bottles (0,5 l NRW-bottle). Additional features are a user-friendly design and an entire surface of stainless steel. Also possible is an application to the material control.

The forcing test serves to predict the physico-chemical storability of beer.

New standard – THIEMT Forcing Tester



Linear temperature change in comparison with conventional systems.



Temperature period 60°'b0C = 21 hours dwell-time and 3 hours temperature change.

None existing standard guidelines prevent from drawing an objective comparison between the conventional forcing tests. Even very little differences in temperature change periods lead to significantly varying measurement results.

The new Forcing Test Standard T24-3, developed by THIEMT, makes it possible to carry out the test in an accurate and reproducible way. It considers the following factors to the measurement:

- Influence of the velocity of the temperature change
- Influence of the method of the temperature change (linear/exponential)
- Differences of the effective heat quantity, within conventional circulating air tempering devices – same temperature does not mean same test conditions.

The Forcing Tester Standard T24-3 consists of well-defined temperature periods, each of 24 hours. 21 hours of that are dwell-time, in the remaining 3 hours the temperature change takes place under linear conditions.

Details

Combined Forcing Test System: The forcing test data (e.g. current temperature etc.) and the turbidity measurement data will be gathered and analysed automatically by TQS.

Configuration

The Forcing Tester TFT consists of a water bath with a tempering- and circulating device and a control unit. It is entirely of stainless steel and equipped with mobile rollers.

Functions

A programm regulates the temperatures, the dwell-times and the temperature change. Individual temperature curves can be programed by the TQS-Software.

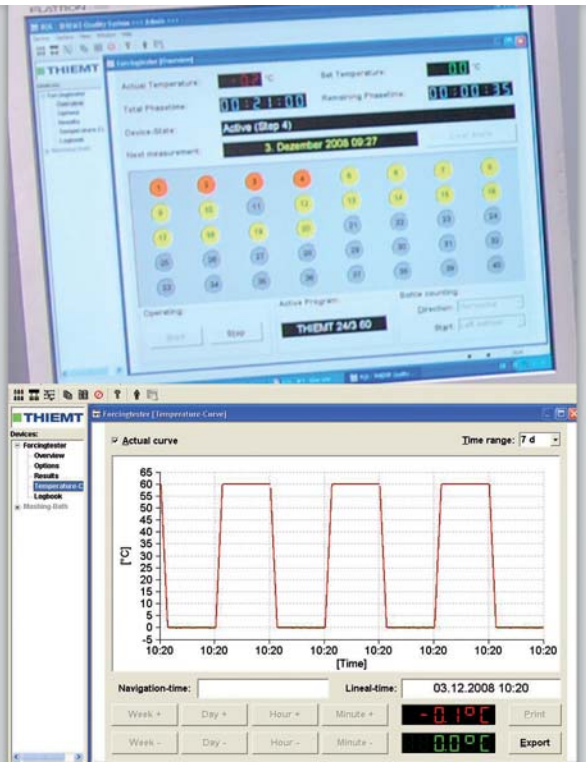
Handling

The control takes place by a control panel on the forcing-tester, optionally also by the TQS-Software, connected with a PC. The control panel disposes of an LCD-display and preselection keys to lodge 2 standard programms.

Optional control and analysis by TQS

The forcing tester disposes of its own control system with hard-rolled in programms (standalone).

Different, variant procedures can be programed individually by the TQS-Software. As well, the forcing tester will be connected with a PC.
The analysis of the test scores also takes place by TQS. A haze measurement device and one or several forcing tester will be connected with a PC, the transferred values will be carried over automatically by the software: Haze value relation of the bottles, result storage, calculation of the estimated storability. Further statistical analyses and printouts of the results are possible.



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Benefits and advantages

Device characteristics and benefits of the TFT

- Complete stainless steel cover
- Large water bath = high test rate
- High refrigerating capacity = quick cooling times
- High heat output = quick heating-up times
- High bath circulation = temperature-homogeneity
- Individual programming
- Linear (homogeneous) lead of temperature
- Time controlled temperature change
- Standardized forcing test = comparability

Technical information and order data

Technische Informationen – Abstract

Temperature range:	0° C … 60° C
Temperature consistency:	± 0,1° K
Minimum temperature:	0° C
Maximum temperature:	+ 60° C
Max. temperature change:	linear
- from 0° C to 60° C	180 min
- from 60° C to 0° C	180 min
Max. temperature change:	non linear
- from 0° C auf 60° C	150 min
- from 60° C auf 0° C	120 min
Overall dimensions (wxhxd):	928 x 1.180/990 x 654 mm
Bath dimensions (wxhxd):	424 x 344 x 834 mm
Storage space for bottles(wxhxd):	424 x 270 x 657 mm
Bath volume:	ca. 110 liter
Bath circulation (none loaded):	ca. 50-fold
Heat output:	3 kW
Refrigerating capacity:	4 kW
Weight (ex water):	184 kg
Voltage:	
- TFT-40 standard	230 V/50/60 Hz
Power consumtion	14 A
Fuse:	16A remanent

Order data

Forcing Tester TFT-40 Standard	T200.502

Spare parts

1 Set bottle numbering	T200.551

Software TQS

Compatible	Haffmans VOS-Rota
Turbidity measurement	Sigrist LabScat

Delivery contents Forcing Tester TFT–40

1 Forcing Tester TFT-40
1 Electric connection cable*
1 Water inlet hose (1500 mm DN9)
1 Water outlet hose (1000 mm DN32)
1 Software TQS-TFT
1 Interface cable (3 m RS232)
1 Manual
1 Set bottle numbering

Packing data

Delivery ensued in a wooden box.

Dimensions (wxhxd):	1.370 x 1.320 x 860 mm
Weight:	282 kg

Further information:
www.thiemt.com/en/tft

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