



# 1-CUBE s. r. o.

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## FORCING TESTS- Refrigerated/Heating Circulating Bath

### TYPES - SU6.2, SU12.2, SU6.1, SU12.1

Forcing Test Refrigerated/Heating Circulating Bath for simulating the beer aging process to determine the best before date. The 1-CUBE Forcing Test Refrigerated/Heating Circulating Bath is employed in conjunction with a Hazemeter (Turbidity Meter) to determine the "potential to last" for bottled beer. The beer is aged in a programmed temperature cycle treatment, which is repeated until assitional clouding is observed.

These units are versatile and offer a wide range of uses. They can be used as either Refrigerated/Heating Circulating Baths or as two separated fluid thermostats. They are equipped with state of the art electronics providing quality and reliability. The automatic constant level of water height in the temperature-controlled vessel during testing enables accurate results. Laboratory staff appreciate the ease in which levels are constantly maintained. The bath prevents overflow and excess handling by the staff. Temperature chilling (in combination with the measurement of beer haze with the help of the haze-meters) is used for the determination of colloidal beer stability and for the fast prediction of overall product stability. The methods used for chilling tests can differ by both temperature (heating, cooling), the time of duration and the number of samples to test - see methods (analytics MEBAK, EBC, doc. Ing. J.Šavel CSc. and prof. Basařová, etc...).



#### **Technical description:**

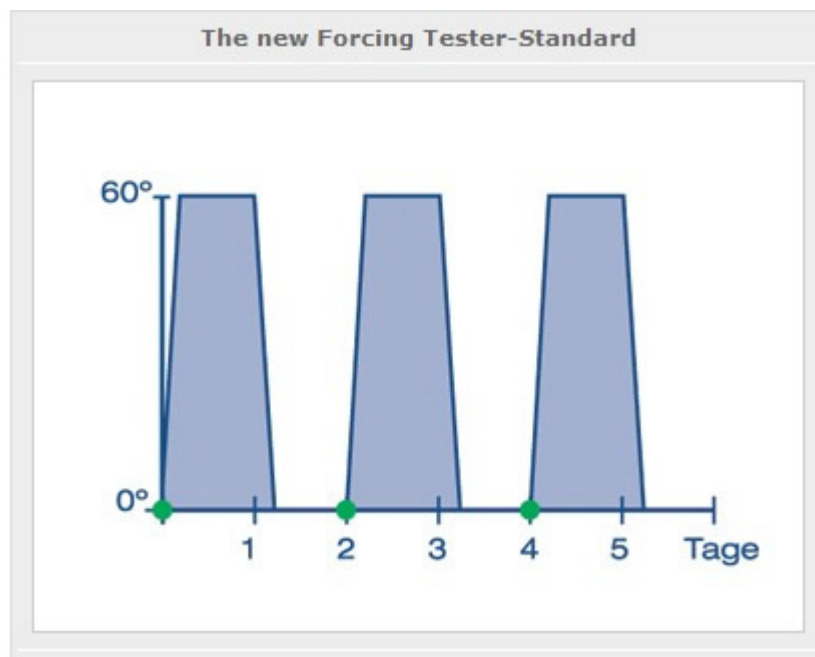
##### ***1) Forcing testers SU6.2, SU12.2***

-two separate fluid baths (cold and hot) with capacity 6+6 or 12+12 bottles. The equipment can be used for forcing test or as 2 fluid temperature control systems. Temperature range is from -10<sup>0</sup>C to +90<sup>0</sup>C. The equipment is made completely of stainless steel and the bath is temperature insulated. The Ttster is equipped with microcomputer, resistance thermometer Pt 100, two-line display LCD, membrane keyboard, software and serial interface RS232 transferring the temperature curves into PC. It is equipped with function - automatic cutout when the level is too low.

##### ***2) Forcing testers SU6.1, SU12.1***

One fluid bath with capacity 6 or 12 bottles, Temperature range is from -10<sup>0</sup>C to +80<sup>0</sup>C, temperature cycle can be programmed

Technical parameters	SU6.2	SU12.2	SU6.1	SU12.1
workmanship	2-baths	2-baths	1-bath	1-bath
sizes (w x h x d) [cm]	80 x 100 x 60	80 x 100 x 60	60x65x80	70x65x80
sizes of bath [cm]	25x45x35-depth	25x45x35-depth	40x40x30-depth	40x40x30-depth
weight	65kg	80kg	40kg	50kg
capacity of bath	6 + 6 bottles	12 + 12 bottles	6 bottles	12 bottles
temperature range	-10 <sup>0</sup> C-+95 <sup>0</sup> C	-10 <sup>0</sup> C-+95 <sup>0</sup> C	-10 <sup>0</sup> C-+80 <sup>0</sup> C	-10 <sup>0</sup> C-+80 <sup>0</sup> C
temperature stability-60 <sup>0</sup> C	0,1 <sup>0</sup> C	0,1 <sup>0</sup> C	0,1 <sup>0</sup> C	0,1 <sup>0</sup> C
adjustable parameters	temperature	temperature	temperature,time	temperature,time
electric power supply	230V/50Hz, 2,6kW	230V/50Hz, 2,6kW	230V/50Hz, 2,6kW	230V/50Hz, 2,6kW
Display resolution	0,01 <sup>0</sup> C	0,01 <sup>0</sup> C	0,1 <sup>0</sup> C	0,1 <sup>0</sup> C
RS232	yes	yes	yes	yes



Software Monitoring allows the user to program temperature curve according to their needs in PC.