Tecal 650S/H

This temperature calibrator is ideal for calibrating temperature sensors used in the food and pharmaceutical, petrochemical and power generation industries as well as calibrating any sensors used in the temperature range outlined in the specification below.

S Version: Set required Temperature and Calibrate

H Version: Set required Temperature and Calibrate also programmable for switch test and ramp rate etc.

The 650 models have large aluminium-bronze blocks which can house large single or multi-hole inserts. These inserts can accommodate probes to a depth of 152.4mm providing high stability and uniformity.All models are equipped with high-powered band heaters and two fans in order to rapidly heat and cool the temperature probe block to the required range of temperatures.

650S

650H

Technical Specification

Minimum temperature	25°C above ambient
Maximum temperature	650°C
Temperature accuracy in measuring zone.	±0.4°C
Temperature uniformity in measuring zone	±1°C[1]
Measuring zone	0 to 50mm from base of well
Temperature stability after 10mins	±0.09°C
Display resolution	0.1°C
Heating rate, 20°C to 600°C	35 minutes
Cooling rate, 600°C to 200°C	30 minutes
Programmable ramp rate, °C/min	0.1 to 10, on H version
Switch test	on H version
Comms port, 9 way D type	Full bi-directional RS-232
Weight,	11.8(S), 12.2(H) kg
Dimensions H x W x D, mm	285 x 190 x 426

Immersion Depth =152.4mm

[1] At 400°C

See page 9 for full range of inserts available.

Ordering Information

Product Code	Model	Voltage	Hz	Watts	Net Weight (kg)
FDB650SD	TECAL 650S	230V	50/60	1100	12.5
FDB650SP	TECAL 650S	120V	50/60	1100	12.5
FDB650HD	TECAL 650H	230V	50/60	1100	13.0
FDB650HP	TECAL 650H	120V	50/60	1100	13.0

Accessories

The Cooling Probe can be used to rapidly cool the insert – chilled water passes through the probe that fits inserts with 10mm ø hole or larger

Product Code	Model	Net Weight (kg)
FDB00CP	Cooling Probe for 425,650,700X	0.4kg
FCALCASE	Hard Carry case for Tecal H and S models	8.6kg