

Split type high temperature furnace for material tests ESTF

In the ENTECH furnace program, you will find a number of vertical tube furnaces suitable for material testing.

The ESTF-type is a high temperature furnace with features especially suited for tension and tension/compression fatigue testing of metals and another materials where temperatures up to 1000 – 1100 °C are required.

The heated length represents more than 85 % of the total height, and consists of three individually operated zones. The elements are embedded in ceramics fibre in sex half shells, which are independently exchangeable.

The three zone control of this furnace results in very good temperature control over a large part of the total heated length. The control system is from our own design based on standard quality components. The controllers use digital PDSIO master-slave communication.



ESTF Clam Shell Furnace

TECHNICAL DATA – ESTF XX / 11

Split Furnace, vertical three-zone furnace.

Max. temperature:	1100 °C
Max. working temperature:	1100 °C
Elements:	Kanthal A-1 resistance wire.
Connection:	3 x 230 V, 50 Hz AC
Controller:	Eurotherm 2408 P4 as master with digital PDSIO-communication to two Eurotherm 2208 CC operating slaves. Time proportioning by PID-functions with Eurotherm TE 10-S Thyristor units.
Thermocouple:	Type S, three pcs. (Pt / Pt 10%Rh)

Typ	Inside dia.	Hot zone lengths	Height	Width	Depth	Power
ESTF 40 / 11 - III	40 mm	60 x 60 x 60	870 mm	530 mm	660 mm	3 x 425 W
ESTF 60 / 11 - III	60 mm	60 x 60 x 60	870 mm	530 mm	660 mm	3 x 600 W

HIGH TEMPERATURE FURNACES made up to specification. Operating up to 2000 °C in oxidising atmospheres.