

Chamber furnaces up to 2050 °C – ECF X / 20



ENTECH has developed an ultra high temperature furnace range. From this range we can offer furnaces for work temperatures of more than 2000 °C in oxidising atmospheres. These furnaces are equipped with Zircotal™ elements. These elements are used as main heating elements. The furnace is in turn preheated with Kanthal Super 1900™ Molybdenum disilicide elements. The instrumentation consists of one multi-loop programmable controller unit, Eurotherm 2704. To measure the temperature we use two measurement systems. One thermocouple to control the preheating elements and one optical pyrometer to control the Zircotal elements. The furnaces are bottom loaded and the chamber is enclosed inside an iron mesh box.

TECHNICAL DATA – ECF X / 20 High Temperature Chamber Furnace (Bottom loaded)

Max. temperature:	2050 °C
Max. working temperature:	2050 °C
Elements 1:	Kanthal Super 1900™ (MoSi ₂)
Elements 2:	Zircotal™
Connection:	3 x 400 V, 50 Hz AC
Controller:	Eurotherm 2704 P4
Temperature measurement 1:	JM2040, (Pt 20%Rh / Pt 40%Rh)
Temperature measurement 2:	Optical Pyrometer

Type	Chamber, H x W x D	Volume	H	W	D	Power
ECF 1 / 20	120 x 90 x 90 mm	1,0 ltr	1500 mm	1200 mm	800 mm	7 kVA
ECF 2 / 20	150 x 96 x 120 mm	1,8 ltr	1500 mm	1200 mm	800 mm	10 kVA

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