

# TZL-1700X-60 Three Zone Alumina Tube Furnace with Vacuum Flanges

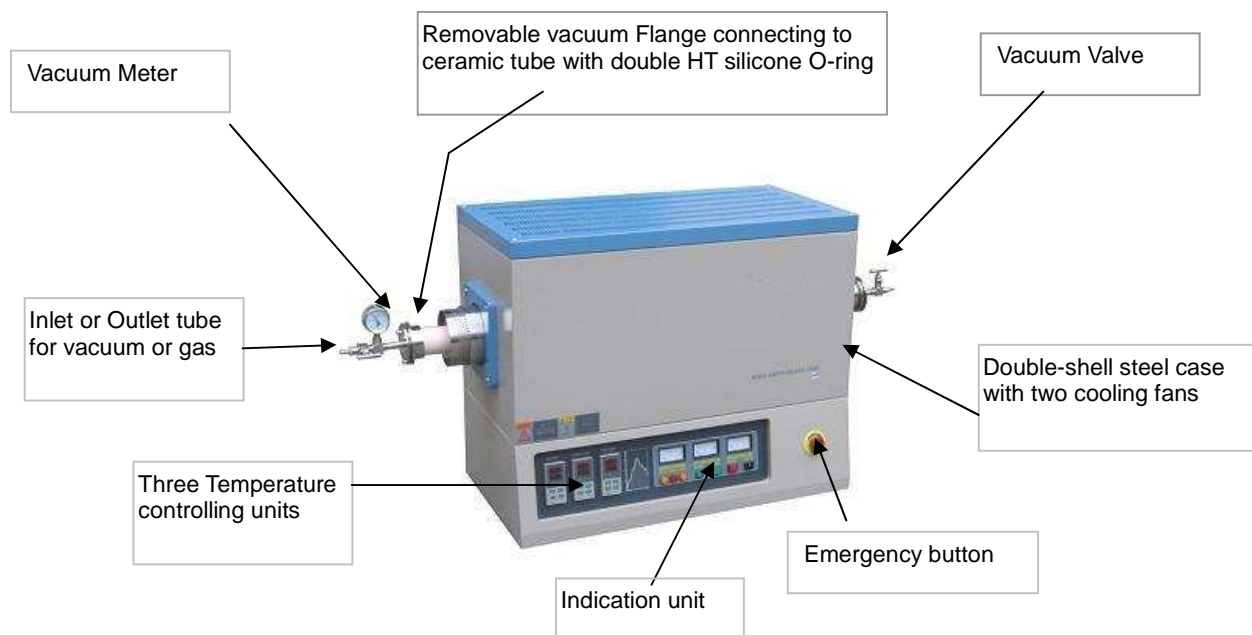
## Introduction

TZL-1700X60 is 60 mm OD three zones tube furnace with complete vacuum sealing flange. Each heating zone is 12" in length and controlled by three precision 50 segments digital temperature controllers independently. The center zone is heated by Super-1800 MoSi<sub>2</sub> elements up to 1700 °C and another two zones are heated by SiC up to 1400°C. The tube furnace can create various thermal gradient by adjust three zones temperature. It is excellent furnace to prepare functional materials under thermal gradient, and also can be used for epitaxial film growth by CVD.

## Specifications

Item	Parameter
Power	6KW
Voltage	AC 220-240 Single Phase, 50 or 60 Hz selectable
Max. Temperature	Zone one: 1400, Zone two: 1700, Zone Three: 1400
Suggested heating rate	5 °C /min (max. ≤ 10)
Temperature accuracy	± 1 °C
Heating Zone length	12"
Heating element	<p>Three zones: total 25" ( 630 mm ) heating zone ( included two refractory separators )</p> <ul style="list-style-type: none"> <li>• Zone 1: 7.5" ( 190 mm ) heated by 4 pcs U type SiC <ul style="list-style-type: none"> <li>○ working temperature 800 - 1400 °C</li> <li>○ Max. Heating rate: 20 °C/min</li> </ul> </li> <li>• Zone 2: 10" ( 250 mm ) heated by 6 pcs U type MoSi<sub>2</sub> <ul style="list-style-type: none"> <li>○ working temperature 800 - 1700 °C</li> <li>○ Max. Heating rate: 10 °C/min</li> </ul> </li> <li>• Zone 3: 7.5" ( 190 mm ) heated by 4 pcs U type SiC <ul style="list-style-type: none"> <li>○ working temperature 800 - 1400 °C</li> <li>○ Max. Heating rate: 20 °C/min</li> </ul> </li> </ul>
Dimension of inside tube	Φ50 ID x Φ60 OD x 1000 L (mm)
Dimension of outside	863 L x 457 W x 711 H mm (34 L x 18 W x 28 H inch)
Net Weight	180 Kg
Warranty	One year limited warranty for electronic and mechanical part, excluding heating element and ceramic tube damaged by user

## Furnace Construction



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