



TUBESTAR series

Resistive batch
furnace

Low cost small-batch
tubular furnace

The **Qtherm** TubeStar has been specially developed for use as a pilot / low volume production unit in the industry and in research environment.

The TubeStar small-batch system is a low cost tubular furnace for LPCVD processes and general heat treatment duties. The system has high-vacuum and gas mixing capabilities.

The temperature control system is designed to ensure improved uniformity over the whole operating range from 500°C up to 1200°C.



The process management control software provides full control of process recipes and easy data monitoring.

Main features

Wafer size up to 200mm
 Square cell up to 156x156mm
 Spike and profile thermocouple control
 PID temperature control
 Multi-zone heating element
 Atmospheric or vacuum process capability (up to 10⁻⁷ mbar)
 Up to 6 gas lines with MFCs
 Mycore Process management software

Options

Turbomolecular pumping unit
 Water cooling unit

Applications

LPCVD processes
 LYDOP® process
 Stress-free silicon-rich nitride
 Annealing
 Oxidation (dry and wet)
 Diffusion

Features

Temperature range:	500°C to 1200°C
TubeStar 100 dimensions (L/W/H):	1500x800x1500 mm
TubeStar 200 dimensions (L/W/H):	1800x970x1700 mm