

# Tube Furnaces

## High Temperature PTF Series



**PTF 18/50/400**

High Temperature PTF series tube furnaces are tube furnaces that could be used when laboratory experimentation is performed horizontally or vertically.

Standard High Temperature PTF series furnaces cover a range from 1600°C to 1800°C, using vertically mounted Molybdenum Disilicide heating elements for processes. Vertical mounted elements provide ease of replacement

The stable temperature environment, and the option to be able to modify the furnace for a vacuum make these furnaces suitable for many possible processes.

### System Features

- ✓ Standard working tube of C610 and C799.
- ✓ Separate or integrated control system
- ✓ Customized controller option
- ✓ High-quality fiber material
- ✓ High level temperature uniformity
- ✓ Standard long working tube protruding from sides suitable for operation with flanges
- ✓ Electrical protection
- ✓ Galvanized coating covered epoxy paint structure
- ✓ High quality heating elements ensuring a long service life
- ✓ Intuitive controller user interface
- ✓ System operation with silicone controlled rectifiers

Model	Maximum Temperature (°C)	Continuous Operating Temperature (°C)	Tube size (Dø x length) (mm)	Heated Zone (mm)	External Dimensions (cm)	Power (kW)	Phase
PTF 17/38/200	1700°C	1650	40x600	200	83x46x53	3.0	1
PTF 17/50/200	1700°C	1650	50x600	200	83x46x53	3.0	1
PTF 17/75/200	1700°C	1650	75x600	200	83x46x53	3.0	1
PTF 17/38/300	1700°C	1650	40x700	300	83x56x53	4.0	3
PTF 17/50/300	1700°C	1650	50x700	300	83x56x53	4.0	3
PTF 17/75/300	1700°C	1650	75x700	300	83x56x53	4.0	3
PTF 17/38/400	1700°C	1650	40x800	400	83x66x53	4.8	3
PTF 17/50/400	1700°C	1650	50x800	400	83x66x53	4.8	3
PTF 17/75/400	1700°C	1650	75x800	400	83x66x53	4.8	3

Model	Maximum Temperature (°C)	Continuous Operating Temperature (°C)	Tube size (Dø x length) (mm)	Heated Zone (mm)	External Dimensions (cm)	Power (kW)	Phase
<b>PTF 18/38/200</b>	1800°C	1750	40x600	200	83x46x53	3.0	1
<b>PTF 18/50/200</b>	1800°C	1750	50x600	200	83x46x53	3.0	1
<b>PTF 18/75/200</b>	1800°C	1750	75x600	200	83x46x53	3.0	1
<b>PTF 18/38/300</b>	1800°C	1750	40x700	300	83x56x53	4.0	3
<b>PTF 18/50/300</b>	1800°C	1750	50x700	300	83x56x53	4.0	3
<b>PTF 18/75/300</b>	1800°C	1750	75x700	300	83x56x53	4.0	3
<b>PTF 18/38/400</b>	1800°C	1750	40x800	400	83x66x53	4.8	3
<b>PTF 18/50/400</b>	1800°C	1750	50x800	400	83x66x53	4.8	3
<b>PTF 18/75/400</b>	1800°C	1750	75x800	400	83x66x53	4.8	3

\*For system accessories please check the accessory page for furnaces.

#### Optional Features

- ✓ Over-temperature limiter for thermal protection
- ✓ Display of inner tube temperature with an additional thermocouple
- ✓ Check valve at gas outlet
- ✓ Gas supply and blend systems for operation
- ✓ Alternative working tubes
- ✓ Gas and water cooled vacuum flanges
- ✓ Universal design for vertical and angular usage
- ✓ Data logger with the software
- ✓ RS422/485 communication

\*For your inquiries and questions please contact us

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