

Horizontal tube furnaces ROT 60/300/120 – ROT 120/600/13

T max:	1200 °C or 1300°C
Max. tube diameter:	60, 70, 85 und 120 mm
Heated length:	300, 450 und 600 mm



ROT – furnaces:

- Compact bench top furnace for horizontal operation with integrated switchgear and control unit
- Stable housing made of coated steel parts, face side made of stainless steel

Heating:

- Powerful wire heating elements made of highgrade FeCrAl-alloy for long service life and low operating costs
- Heating elements on ceramic support tubes with free heat radiation, mounted evenly around the work tube, for direct and even heating,
- Easy and very economical change of heating elements



Insulation:

- Multilayer, high-grade fibre insulation with low thermal mass, for low outer shell temperature and low energy consumption
- Support tube anchors made of strong and long lasting fire bricks

Tube:

- Tube entry diameter up to max. possible diameter individually selectable with order
- Process tubes made of quartz glass or ceramic, easy to change

Temperature control:

- Standard controller with programmable start time, working temperature and holding time
- Controller with several programs or cascade controller with temperature control direct on the probe, control- and documentation software and interface optionally available

Accessories:

- Process tube made of quartz glass or ceramic
 - Ceramic tube made of C 610 or C 799, gas- and vacuum tight, for gas- or vacuum-flanges
 - Quartz glass tube, gas- and vacuum tight, for gas- or vacuum-flanges
 - Quartz glass tube, with taper joint and end caps, with 1 or 2 gas connection and valves
- Manual and automatic gas feed system for non-flammable protective gases
- Gas- or vacuum-flanges and individually adapted flanges with lead throughs, swing lid with quick-locks or flanges with glove box connection
- Vacuum pump with display or controller
- Water-reflux condenser for flanges

Technical Data:

Model	T max	Outer-dimensions	Tube outerdiameter	Heated length	+5K zone	Recommended tube length	Power	Voltage
1200°	[°C]	[mm]	[mm]	[mm]	[mm]	[mm]	[kW]	[V]
ROT 60/300/12	1200 °C	630 x 450 x 630	≤ 60	300	100	830	1,5	230 V 1/N/PE
ROT 70/300/12	1200 °C	630 x 450 x 630	≤ 70	300	100	830	1,5	230 V 1/N/PE
ROT 85/300/12	1200 °C	630 x 450 x 630	≤ 85	300	100	830	1,7	230 V 1/N/PE
ROT 120/300/12	1200 °C	630 x 450 x 630	≤120	300	100	830	4,0	400 V 3/N/PE
ROT 60/450/12	1200°C	780 x 450 x 630	≤ 60	450	150	900	1,6	230 V 1/N/PE
ROT 70/450/12	1200°C	780 x 450 x 630	≤ 70	450	150	900	1,6	230 V 1/N/PE
ROT 85/450/12	1200°C	780 x 450 x 630	≤ 85	450	150	900	1,8	230 V 1/N/PE
ROT 120/450/12	1200°C	780 x 450 x 630	≤120	450	150	900	4,0	400 V 3/N/PE
ROT 60/600/12	1200°C	930 x 450 x 630	≤ 60	600	200	1050	1,7	230 V 1/N/PE
ROT 70/600/12	1200°C	930 x 450 x 630	≤ 70	600	200	1050	1,7	230 V 1/N/PE
ROT 85/600/12	1200°C	930 x 450 x 630	≤ 85	600	200	1050	2,0	230 V 1/N/PE
ROT 120/600/12	1200°C	930 x 450 x 630	≤ 120	600	200	1050	4,0	400 V 3/N/PE

Model	T max	Outer-dimensions	Tube outerdiameter	Heated length	+5K zone	Recommended tube length	Power	Voltage
1300°C	[°C]	[mm]	[mm]	[mm]	[mm]	[mm]	[kW]	[V]
ROT 60/300/13	1300 °C	630 x 450 x 630	≤ 60	300	100	830	1,6	230 V 1/N/PE
ROT 70/300/13	1300 °C	630 x 450 x 630	≤ 70	300	100	830	1,6	230 V 1/N/PE
ROT 85/300/13	1300 °C	630 x 450 x 630	≤ 85	300	100	830	2,6	230 V 1/N/PE
ROT 120/300/13	1300 °C	630 x 450 x 630	≤ 120	300	100	830	5,0	400 V 3/N/PE
ROT 60/450/13	1300°C	780 x 450 x 630	≤ 60	450	150	900	1,7	230 V 1/N/PE
ROT 70/450/13	1300°C	780 x 450 x 630	≤ 70	450	150	900	1,7	230 V 1/N/PE
ROT 85/450/13	1300°C	780 x 450 x 630	≤ 85	450	150	900	2,8	230 V 1/N/PE
ROT 120/450/13	1300°C	780 x 450 x 630	≤ 120	450	150	900	5,0	400 V 3/N/PE
ROT 60/600/13	1300°C	930 x 450 x 630	≤ 60	600	200	1050	1,8	230 V 1/N/PE
ROT 70/600/13	1300°C	930 x 450 x 630	≤ 70	600	200	1050	1,8	230 V 1/N/PE
ROT 85/600/13	1300°C	930 x 450 x 630	≤ 85	600	200	1050	3,0	230 V 1/N/PE
ROT 120/600/13	1300°C	930 x 450 x 630	≤ 120	600	200	1050	5,0	400 V 3/N/PE