

### Muffle furnaces up to 1300 °C



1

High temperature furnaces with glass fibre insulated chamber.  
Suitable for applications in industry, science and medicine.

- Ceramic bottom plate
- Side-opening, down-opening or top-opening door, depending on model
- Controls easily accessible in the socket
- Fast heating times
- Furnace housing made of powder-coated metal
- Good temperature stability
- Energy saving
- Models with Omron E5CC controller: time and temperature can be set
- Models with Omron E5CC-T controller: 8 storable programs



4.669 221

**Model numbers with "1100" up to 1100 °C**  
**Model numbers with "1300" up to 1300 °C**

| Type                  | Nom. capacity | Description  | Internal dimensions (W x D x H) mm | Type of auxiliary energy | PK | Cat. No.  |
|-----------------------|---------------|--------------|------------------------------------|--------------------------|----|-----------|
|                       | <b>L</b>      |              |                                    |                          |    |           |
| SNOL 3/1100 LHM01*    | 3             | Top-opening  | 120 x 200 x 105                    | 230 V, 50 Hz             | 1  | 4.669 202 |
| SNOL 8.2/1100 LHM01*  | 8             | Top-opening  | 195 x 310 x 135                    | 230 V, 50 Hz             | 1  | 4.669 203 |
| SNOL 8.2/1100 LSM01*  | 8             | Side-opening | 195 x 310 x 135                    | 230 V, 50 Hz             | 1  | 4.669 204 |
| SNOL 8.2/1100 LZM01*  | 8             | Down-opening | 195 x 310 x 135                    | 230 V, 50 Hz             | 1  | 4.669 205 |
| SNOL 13/1100 LHM01*   | 13            | Top-opening  | 220 x 335 x 170                    | 230 V, 50 Hz             | 1  | 4.669 206 |
| SNOL 22/1100 LHM01*   | 22            | Top-opening  | 280 x 500 x 160                    | 230 V, 50 Hz             | 1  | 4.669 207 |
| SNOL 39/1100 LHM01*   | 39            | Top-opening  | 320 x 495 x 230                    | 400 V, 50 Hz             | 1  | 4.669 208 |
| SNOL 6.7/1300 LSM01*  | 7             | Side-opening | 145 x 310 x 135                    | 230 V, 50 Hz             | 1  | 4.669 209 |
| SNOL 10/1300 LHM01*   | 10            | Top-opening  | 190 x 335 x 170                    | 230 V, 50 Hz             | 1  | 4.669 210 |
| SNOL 3/1100 LHM01**   | 3             | Top-opening  | 120 x 200 x 105                    | 230 V, 50 Hz             | 1  | 4.669 220 |
| SNOL 8.2/1100 LHM01** | 8             | Top-opening  | 195 x 310 x 135                    | 230 V, 50 Hz             | 1  | 4.669 221 |
| SNOL 8.2/1100 LSM01** | 8             | Side-opening | 195 x 310 x 135                    | 230 V, 50 Hz             | 1  | 4.669 222 |
| SNOL 8.2/1100 LZM01** | 8             | Down-opening | 195 x 310 x 135                    | 230 V, 50 Hz             | 1  | 4.669 223 |
| SNOL 13/1100 LHM01**  | 13            | Top-opening  | 220 x 335 x 170                    | 230 V, 50 Hz             | 1  | 4.669 224 |
| SNOL 22/1100 LHM01**  | 22            | Top-opening  | 280 x 500 x 160                    | 230 V, 50 Hz             | 1  | 4.669 225 |
| SNOL 39/1100 LHM01**  | 39            | Top-opening  | 320 x 495 x 230                    | 400 V, 50 Hz             | 1  | 4.669 226 |
| SNOL 6.7/1300 LSM01** | 7             | Side-opening | 145 x 310 x 135                    | 230 V, 50 Hz             | 1  | 4.669 227 |
| SNOL 10/1300 LHM01**  | 10            | Top-opening  | 190 x 335 x 170                    | 230 V, 50 Hz             | 1  | 4.669 228 |

\* with Omron E5CC controller  
\*\*with Omron E5CC-T controller

### 2 Muffle Furnaces Series LE 1/11 - LE 14/11 up to 1100 °C

Nabertherm

2

Compact muffle furnaces with dual shell furnace housing of rust-free stainless steel and heating elements encased in quartz glass tubes.

- Tmax 1100 °C, working temperature 1050 °C
- Heating from two sides from heating elements in quartz glass tubes
- Maintenance-friendly replacement of heating elements and insulation
- Insulation only made of materials that are classified as not carcinogenic acc. to TRGS 905, class 1 or 2
- Housing made of sheets of textured stainless steel
- Dual shell housing for low external temperatures and high stability
- Flap door which can also be used as a work platform
- Exhaust air outlet in rear wall
- Compact dimensions and light weight
- Controller mounted under the door to save space
- Equipped with the basic controller R 7 with one free storeable temperature, which is dwelled until the controller is switch off
- Standard power supply 230 V, 1/N/PE, 50/60 Hz



| Type/Controller | Capacity | External dimensions (W x D x H) mm | Internal dimensions (W x D x H) mm | Rating kW | Weight kg | PK | Cat. No.  |
|-----------------|----------|------------------------------------|------------------------------------|-----------|-----------|----|-----------|
| LE 1/11/R7      | 1        | 290 x 280 x 406                    | 90 x 115 x 110                     | 1.5       | 10        | 1  | 9.764 543 |
| LE 2/11/R7      | 2        | 330 x 385 x 406                    | 110 x 180 x 110                    | 1.8       | 10        | 1  | 9.764 537 |
| LE 6/11/R7      | 6        | 390 x 434 x 466                    | 170 x 200 x 170                    | 1.8       | 18        | 1  | 9.764 539 |
| LE 14/11/R7     | 14       | 440 x 534 x 516                    | 220 x 300 x 220                    | 2.9       | 25        | 1  | 9.764 541 |

External dimensions vary for versions with additional equipment. Dimensions on request.

➔ Safety gloves, heat protection - please see page 239.

### Muffle furnaces series L/LT 1100 °C to 1400 °C

For daily laboratory use. Models with flap door or lift door available, for temperatures from 1100 °C to 1400 °C.

Nabertherm

- Dual shell housing made of textured stainless steel sheets for low external temperatures and high stability
- Adjustable air inlet integrated in door
- Exhaust air outlet in rear wall of furnace
- Solid state relays provide low-noise operation
- Optionally available with flap door (L models) that can be used as work platform or with lift door (LT models) with hot surface facing away from the operator
- Available with the programmable controllers B 410 and C 450 with adjustable ramps and hold times (L 1/12 with R7 or 3216)
- All insulation materials used are classified as non-carcinogenic according to TRGS 905, Class 1 or 2
- Standard connection 220-240 V 1/N/PE 50/60 Hz

#### 1100 °C and 1200 °C models

- Ceramic heating plates with integrated heating wire, splash and exhaust protected, easy to replace
- heating from two sides (heating from three sides for muffle furnaces with interior volumes of 24 litres and 40 litres)

#### 1300 °C and 1400 °C models

- Heating elements on support tubes for free heat radiation, short heating times and long service life
- Heating from two sides

#### Optional

- Chimney, chimney with fan or catalytic converter
- Over-temperature limiter with adjustable cutout temperature for thermal protection class 2 in accordance with EN 60519-2 as temperature limiter to protect the furnace and load
- Protective gas connection to purge with non-flammable protective or reaction gases (not available in combination with chimney, chimney with fan or catalytic converter)
- Manual or automatic gas supply system
- Process control and documentation via VCD software package for monitoring, documentation and control

1



1

### Muffle furnaces series LT 3/11 - LT 40/11, max. 1100 °C, with lift door

Max. temperature 1100 °C. Lift door with hot surface facing away from the operator.

Nabertherm

| Type           | Nom. capacity | Internal dimensions (W x D x H) mm | External dimensions (W x D x H) mm | Power consumption W | PK | Cat. No.  |
|----------------|---------------|------------------------------------|------------------------------------|---------------------|----|-----------|
|                |               |                                    |                                    |                     |    |           |
| LT 3/11/B410   | 3             | 160 x 140 x 100                    | 385 x 330 x 405                    | 1200                | 1  | 6.241 787 |
| LT 5/11/B410   | 5             | 200 x 170 x 130                    | 385 x 390 x 460                    | 2400                | 1  | 6.260 949 |
| LT 9/11/B410   | 9             | 230 x 240 x 170                    | 415 x 455 x 515                    | 3000                | 1  | 6.241 499 |
| LT 15/11/B410  | 15            | 230 x 340 x 170                    | 415 x 555 x 515                    | 3500                | 1  | 6.237 183 |
| LT 24/11 *     | 24            | 280 x 340 x 250                    | 490 x 555 x 580                    | 4500                | 1  | 6.274 993 |
| LT 40/11/B410* | 40            | 320 x 490 x 250                    | 530 x 705 x 580                    | 6000                | 1  | 6.239 613 |

\*400 V 3/N/PE 50/60 Hz connector as standard

External dimensions vary for versions with additional equipment. Dimensions on request.

2



2

### Muffle furnaces series L 3/11 - L 40/11, max. 1100 °C, with flap door

Max. temperature 1100 °C. Flap door can be used as work platform.

Nabertherm

| Type          | Nom. capacity | Internal dimensions (W x D x H) mm | External dimensions (W x D x H) mm | Power consumption W | PK | Cat. No.  |
|---------------|---------------|------------------------------------|------------------------------------|---------------------|----|-----------|
|               |               |                                    |                                    |                     |    |           |
| L 3/11/B410   | 3             | 160 x 140 x 100                    | 385 x 330 x 405                    | 1200                | 1  | 6.059 769 |
| L 5/11/B410   | 5             | 200 x 170 x 130                    | 385 x 390 x 460                    | 2400                | 1  | 6.092 769 |
| L 9/11/B410   | 9             | 230 x 240 x 170                    | 415 x 455 x 515                    | 3000                | 1  | 6.302 391 |
| L 15/11/B410  | 15            | 230 x 340 x 170                    | 415 x 555 x 515                    | 3500                | 1  | 6.056 446 |
| L 24/11/B410* | 24            | 280 x 340 x 250                    | 490 x 555 x 580                    | 4500                | 1  | 6.206 861 |
| L 40/11/B410* | 40            | 320 x 490 x 250                    | 530 x 705 x 580                    | 6000                | 1  | 7.660 691 |

\*400 V 3/N/PE 50/60 Hz connector as standard

External dimensions vary for versions with additional equipment. Dimensions on request.

### 1 Muffle furnaces series LT 3/12 - LT 40/12, max. 1200 °C, with lift door

Max. temperature 1200 °C. Lift door with hot surface facing away from the operator.

Nabertherm

| Type           | Nom. capacity | Internal dimensions (W x D x H) mm | External dimensions (W x D x H) mm | Power consumption W | PK | Cat. No.  |
|----------------|---------------|------------------------------------|------------------------------------|---------------------|----|-----------|
|                |               |                                    |                                    |                     |    |           |
| LT 3/12/B410   | 3             | 160x 140 x 100                     | 385 x 330 x 405                    | 1200                | 1  | 6.256 646 |
| LT 5/12/B410   | 5             | 200 x 170 x 130                    | 385 x 390 x 460                    | 2400                | 1  | 6.284 369 |
| LT 9/12/B410   | 9             | 230 x 240 x 170                    | 415 x 455 x 515                    | 3000                | 1  | 6.244 089 |
| LT 15/12/B410  | 15            | 230 x 340 x 170                    | 415 x 555 x 515                    | 3500                | 1  | 6.240 063 |
| LT 24/12/B410* | 24            | 280 x 340 x 250                    | 490 x 555 x 580                    | 4500                | 1  | 6.287 691 |
| LT 40/12/B410* | 40            | 320 x 490 x 250                    | 530 x 705 x 580                    | 6000                | 1  | 4.660 518 |

\* 400 V 3/N/PE 50/60 Hz connector as standard

External dimensions vary for versions with additional equipment. Dimensions on request.



### 2 Muffle furnaces series L 1/12 - L 40/12, max. 1200 °C, with flap door

Max. temperature 1200 °C. Flap door can be used as work platform.

Nabertherm

| Type          | Nom. capacity | Internal dimensions (W x D x H) mm | External dimensions (W x D x H) mm | Power consumption W | PK | Cat. No.  |
|---------------|---------------|------------------------------------|------------------------------------|---------------------|----|-----------|
|               |               |                                    |                                    |                     |    |           |
| L 1/12        | 1             | 90 x 115 x 110                     | 290 x 280 x 430                    | 1500                | 1  | 4.675 300 |
| L 3/12/B410   | 3             | 160 x 140 x 100                    | 385 x 330 x 405                    | 1200                | 1  | 6.201 618 |
| L 5/12/B410   | 5             | 200 x 170 x 130                    | 385 x 390 x 460                    | 2400                | 1  | 6.223 409 |
| L 9/12/B410   | 9             | 230 x 240 x 170                    | 415 x 455 x 515                    | 3000                | 1  | 6.226 450 |
| L 15/12/B410  | 15            | 230 x 340 x 170                    | 415 x 555 x 515                    | 3500                | 1  | 6.233 463 |
| L 24/12/B410* | 24            | 280 x 340 x 250                    | 490 x 555 x 580                    | 4500                | 1  | 6.265 211 |
| L 40/12/B410* | 40            | 320 x 490 x 250                    | 530 x 705 x 580                    | 6000                | 1  | 6.234 225 |

\* 400 V 3/N/PE 50/60 Hz connector as standard

External dimensions vary for versions with additional equipment. Dimensions on request.

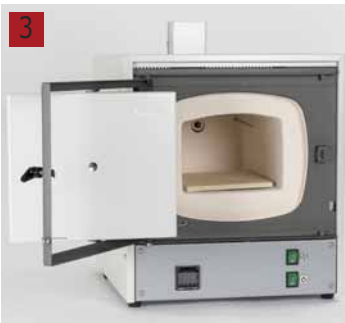


### Ashing furnaces up to 1300 °C



Ashing furnaces with glass fibre insulated chamber. Suitable for applications in industry, science and medicine.

- Fan-assisted chimney for air extraction
- Side- opening, down-opening or top-opening door, depending on model
- Continuous air change in the chamber
- Controls easily accessible in the socket
- Fast heating times
- Furnace housing made of powder-coated metal
- Good temperature stability
- Energy saving
- Models with Omron E5CC controller: time and temperature can be set
- Models with Omron E5CC-T controller: 8 storable programs



4.669 231

#### Model numbers with "1100" up to 1100 °C

#### Model numbers with "1300" up to 1300 °C

| Type                  | Nom. capacity | Description  | Internal dimensions (W x D x H) mm | Type of auxiliary energy | PK | Cat. No.  |
|-----------------------|---------------|--------------|------------------------------------|--------------------------|----|-----------|
|                       |               |              |                                    |                          |    |           |
| SNOL 3/1100 LHM21*    | 3             | Top-opening  | 120 x 200 x 105                    | 230 V, 50 Hz             | 1  | 4.669 211 |
| SNOL 8,2/1100 LHM21*  | 8             | Top-opening  | 195 x 310 x 135                    | 230 V, 50 Hz             | 1  | 4.669 212 |
| SNOL 8,2/1100 LSM21*  | 8             | Side-opening | 195 x 310 x 135                    | 230 V, 50 Hz             | 1  | 4.669 213 |
| SNOL 8,2/1100 LZM21*  | 8             | Down-opening | 200 x 300 x 133                    | 230 V, 50 Hz             | 1  | 4.669 214 |
| SNOL 13/1100 LHM21*   | 13            | Top-opening  | 220 x 335 x 170                    | 230 V, 50 Hz             | 1  | 4.669 215 |
| SNOL 22/1100 LHM21*   | 22            | Top-opening  | 280 x 500 x 160                    | 230 V, 50 Hz             | 1  | 4.669 216 |
| SNOL 39/1100 LHM21*   | 39            | Top-opening  | 320 x 495 x 230                    | 400 V, 50 Hz             | 1  | 4.669 217 |
| SNOL 6,7/1300 LSM21*  | 7             | Side-opening | 145 x 310 x 135                    | 230 V, 50 Hz             | 1  | 4.669 218 |
| SNOL 10/1300 LHM21*   | 10            | Top-opening  | 190 x 335 x 170                    | 230 V, 50 Hz             | 1  | 4.669 219 |
| SNOL 3/1100 LHM21**   | 3             | Top-opening  | 120 x 200 x 105                    | 230 V, 50 Hz             | 1  | 4.669 229 |
| SNOL 8,2/1100 LHM21** | 8             | Top-opening  | 195 x 310 x 135                    | 230 V, 50 Hz             | 1  | 4.669 230 |
| SNOL 8,2/1100 LSM21** | 8             | Side-opening | 195 x 310 x 135                    | 230 V, 50 Hz             | 1  | 4.669 231 |
| SNOL 8,2/1100 LZM21** | 8             | Down-opening | 195 x 310 x 135                    | 230 V, 50 Hz             | 1  | 4.669 232 |
| SNOL 13/1100 LHM21**  | 13            | Top-opening  | 220 x 335 x 170                    | 230 V, 50 Hz             | 1  | 4.669 233 |
| SNOL 22/1100 LHM21**  | 22            | Top-opening  | 280 x 500 x 160                    | 230 V, 50 Hz             | 1  | 4.669 234 |
| SNOL 39/1100 LHM21**  | 39            | Top-opening  | 320 x 495 x 230                    | 400 V, 50 Hz             | 1  | 4.669 235 |
| SNOL 6,7/1300 LSM21** | 7             | Side-opening | 145 x 310 x 135                    | 230 V, 50 Hz             | 1  | 4.669 236 |
| SNOL 10/1300 LHM21**  | 10            | Top-opening  | 190 x 335 x 170                    | 230 V, 50 Hz             | 1  | 4.669 237 |

\* with Omron E5CC controller

\*\*with Omron E5CC-T controller

## Heating/Ovens, Furnaces



6.310 023



6.310 029

### High-temperature chamber furnaces with air circulation NA/N

Nabertherm

These chamber furnaces with air circulation are characterized by their extremely high temperature uniformity. Hence, they are especially suitable for processes such as cooling, crystallizing, preheating, curing, but also for numerous processes in tool making. Due to the modular concept, the forced convection furnaces can be adjusted to the process requirements by adding suitable equipment.

- Tmax 450 °C, 650 °C, or 850 °C
- Horizontal air circulation
- Swing door hinged on the right
- Temperature uniformity up to  $\pm 4$  °C according to DIN 17052-1 (model NA 15/65 up to  $\pm 5$  °C)
- Optimum air flow and temperature uniformity through high circulation rates
- One frame sheet and rails for two additional trays included in the scope of delivery (NA 15/65 without frame sheet)
- Stainless steel air-baffles in the furnace for optimum air circulation
- Base frame included in the delivery, NA 15/65 designed as table-top model
- Air inlet and exhaust air flaps as additional equipment for using as drying oven
- NTLog Basic for Nabertherm controller: recording of process data with USB-flash drive
- Available with the programmable controllers B 400 and C 440 with adjustable ramps and hold times (NA 15/65 with B 410 or C 450)
- Standard power supply 400 V 3/N/PE 50/60 Hz (NA 15/65: 220 - 240 V, 1/N/PE)

| Type/Controller   | Temp.<br>max. °C | Capacity<br>L | Rating<br>kW | Internal dimensions<br>(W x D x H)<br>mm | External dimensions<br>(W x D x H)<br>mm | PK | Cat. No.  |
|-------------------|------------------|---------------|--------------|--|--|----|-----------|
| NA 30/45/B400     | 450              | 30            | 3.6          | 290 x 420 x 260                          | 1040 x 1290 x 1385                       | 1  | 6.310 019 |
| NA 60/45/B400     | 450              | 60            | 6.6          | 350 x 500 x 350                          | 1100 x 1370 x 1475                       | 1  | 6.310 021 |
| NA 120/45/B400    | 450              | 120           | 9.8          | 450 x 600 x 450                          | 1250 x 1550 x 1550                       | 1  | 6.310 023 |
| NA 250/45/B400    | 450              | 250           | 12.8         | 600 x 750 x 600                          | 1350 x 1650 x 1725                       | 1  | 6.310 025 |
| NA 500/45/B400    | 450              | 500           | 18.8         | 750 x 1000 x 750                         | 1550 x 1900 x 1820                       | 1  | 6.310 027 |
| NA 15/65 HA/B410* | 650              | 15            | 2.8          | 295 x 340 x 170                          | 470 x 790 x 460                          | 1  | 6.310 029 |
| NA 30/65/B400     | 650              | 30            | 7.0          | 290 x 420 x 260                          | 870 x 1290 x 1385                        | 1  | 6.310 031 |
| NA 60/65/B400     | 650              | 60            | 10.0         | 350 x 500 x 350                          | 910 x 1390 x 1475                        | 1  | 6.310 033 |
| NA 120/65/B400    | 650              | 120           | 13.0         | 450 x 600 x 450                          | 990 x 1470 x 1550                        | 1  | 6.310 035 |
| NA 250/65/B400    | 650              | 250           | 21.0         | 600 x 750 x 600                          | 1170 x 1650 x 1680                       | 1  | 6.310 037 |

\*Standard power supply 220-240 V 1/N/PE 50/60 Hz

External dimensions vary for versions with additional equipment. Dimensions on request.



6.226 571



6.285 618

### Chamber furnaces

**NEW**

Nabertherm

The chamber furnaces are suitable for Annealing, Hardening and Brazing.

The furnaces can be extended with a variety of accessories, like annealing boxes for operation under protective gas, roller guides, or a cooling station with a quench tank. Even high-performance applications like the annealing of titanium can be implemented without the use of expensive and complicated annealing systems.

- Robust insulation with light refractory bricks
- Deep furnace chamber with three-sides heating: from both side walls and bottom
- Low energy consumption due to multi-layer insulation
- Base frame included
- N 7/H - N 17/HR designed as table-top model
- Parallel guided downward swinging door (user protected from heat radiation)
- NTLog Basic for Nabertherm controller: recording of process data with USB-flash drive
- Available with the programmable controllers B 400 and C 440 with adjustable ramps and hold times

| Type    | Temp.<br>max. °C | Capacity<br>L | Internal dimensions<br>(W x D x H)<br>mm | External dimensions<br>(W x D x H)<br>mm | Type of auxiliary energy | PK | Cat. No.  |
|---------|------------------|---------------|--|--|--------------------------|----|-----------|
| N 7/H   | 1280             | 9             | 250 x 250 x 140                          | 800 x 650 x 600                          | 230 V, 1/N/PE, 50 Hz     | 1  | 6.226 571 |
| N 11/H  | 1280             | 11            | 250 x 350 x 140                          | 800 x 750 x 600                          | 230 V, 1/N/PE, 50 Hz     | 1  | 6.227 200 |
| N 11/HR | 1280             | 11            | 250 x 350 x 140                          | 800 x 750 x 600                          | 400 V, 3/N/PE, 50 Hz     | 1  | 6.226 570 |
| N 31/H  | 1280             | 30            | 350 x 350 x 250                          | 1040 x 1100 x 1340                       | 400 V, 3/N/PE, 50 Hz     | 1  | 4.675 220 |
| N 41/H  | 1280             | 40            | 350 x 500 x 250                          | 1040 x 1250 x 1340                       | 400 V, 3/N/PE, 50 Hz     | 1  | 6.241 122 |
| N 61/H  | 1280             | 60            | 350 x 750 x 250                          | 1040 x 1500 x 1340                       | 400 V, 3/N/PE, 50 Hz     | 1  | 6.285 618 |
| N 87/H  | 1280             | 87            | 350 x 1000 x 250                         | 1040 x 1750 x 1340                       | 400 V, 3/N/PE, 50 Hz     | 1  | 4.675 221 |

### 1 Tube Furnaces

These compact tube furnaces with integrated control systems can be used universally for many processes. Equipped with a standard working tube of C 530 ceramic and two fiber plugs, these tube furnaces have an unbeatable price/performance ratio.

Nabertherm



- Tmax 1200 °C or 1300 °C
- Single-zoned design as standard
- Dual shell housing made of sheets of textured stainless steel
- Outer tube diameter of 50 to 170 mm, heated length from 250 to 1000 mm
- Working tube of C 530 ceramic including two fiber plugs as standard equipment
- Solid state relays provide for lownoise operation
- Available with the programmable controllers B 410, C 450 and P 480 (for three-zoned design) with adjustable ramps and hold times
- Standard power supply 400 V 3/N/PE 50/60 Hz (R 50/250 und R 50/500: 220 V, 1/N/PE, 50/60 Hz)

**Option:**

- Over-temperature limiter with adjustable cutout temperature for thermal protection class 2 in accordance with EN 60519-2 as temperature limiter to protect the furnace and load
- Charge control with temperature measurement in the working tube and in the furnace chamber outside the tube
- Three-zoned design (heated length from 500 mm)
- Working tubes
- Gas supply systems for protective gas or vacuum operation
- Process control and documentation with VCD software package

| Type/Controller    | Tube diam. mm | Tube length mm | Max. temp. °C | Dimensions (W x D x H) mm | Power W | PK | Cat. No.  |
|--------------------|---------------|----------------|---------------|---------------------------|---------|----|-----------|
| R 50/250/12/B410   | 40            | 450            | 1200          | 434 x 340 x 508           | 1.6     | 1  | 9.764 651 |
| R 50/500/12/B410   | 40            | 700            | 1200          | 670 x 340 x 508           | 2.3     | 1  | 9.764 653 |
| R 170/750/12/B410  | 150           | 1100           | 1200          | 920 x 460 x 628           | 11.5    | 1  | 9.764 659 |
| R 170/1000/12/B410 | 150           | 1350           | 1200          | 1170 x 460 x 628          | 11.5    | 1  | 9.764 661 |
| R 50/250/13/B410   | 40            | 450            | 1300          | 434 x 340 x 508           | 1.6     | 1  | 9.764 663 |
| R 50/500/13/B410   | 40            | 700            | 1300          | 670 x 340 x 508           | 2.3     | 1  | 9.764 665 |
| R 120/500/13/B410  | 100           | 850            | 1300          | 670 x 410 x 578           | 6.5     | 1  | 9.764 667 |
| R 170/750/13/B410  | 150           | 1100           | 1300          | 920 x 460 x 628           | 11.5    | 1  | 9.764 671 |
| R 170/1000/13/B410 | 150           | 1350           | 1300          | 1170 x 460 x 628          | 11.5    | 1  | 9.764 673 |
| R 120/500/12/B410  | 100           | 850            | 1200          | 670 x 410 x 578           | 6.5     | 1  | 9.764 655 |

### 2 3 Tube Furnaces with Stand

**NEW**

Nabertherm

These compact tube furnaces are used when laboratory experiments must be performed horizontally, vertically, or at specific angles. The ability to configure the angle of tilt and the working height, and their compact design, also make these tube furnaces suitable for integration into existing process systems.

- Vertical or horizontal operation freely adjustable
- Working height freely adjustable
- Working tube made of C 530 ceramic
- Control system integrated in furnace base
- NTLog Basic for Nabertherm controller: recording of process data with USB-flash drive
- Available with the programmable controllers B 410 and C 450 with adjustable ramps and hold times

**Specifications**

Power input: 1800 W  
 Power supply: 230 V, 1/N/PE, 50/60 Hz

| Type         | Tube diam. mm | Tube length mm | Temp. max. °C | Dimensions (W x D x H) mm | Weight kg | PK | Cat. No.  |
|--------------|---------------|----------------|---------------|---------------------------|-----------|----|-----------|
| RT 50-250/11 | 50            | 360            | 1100          | 350 x 380 x 740           | 25        | 1  | 6.242 203 |
| RT 50-250/13 | 50            | 360            | 1300          | 350 x 380 x 740           | 25        | 1  | 6.240 831 |
| RT 30-200/15 | 30            | 360            | 1500          | 445 x 475 x 740           | 45        | 1  | 4.675 222 |

### 4 Glass drying pistol

Ideally suited for drying of small sample volumes. This sample dryer, for analysing substances and synthetic products, uses heat, desiccant and vacuum at the same time for optimum results. Its temperature range can be adjusted between +30 °C to +160 °C, with a temperature stability of ±1°C.

LABC-Labortechnik

- The two-part drying vessel is approximately two parts of DURAN® glass:
- 1) Drying tube with an outer diameter of 44 mm, length inside 200 mm, joint NS45.
  - 2) Ground flask with stopcock for connection to a vacuum pump.

The glass drying oven needs to be fixed with screw stand rod at the laboratory stand to be secured. Dimensions (without mounting for tripod and Flask): H 120 mm x B 195 mm x T 185 mm. Weight: 2 kg

**Supplied with:** Glass drying oven consisting of heating element with support rod and glassware with ground drying tube and ground flask with stopcock.

| Type                            | PK | Cat. No.  |
|---------------------------------|----|-----------|
| Glass drying oven               | 1  | 6.269 737 |
| Glassware for Glass drying oven | 1  | 6.269 738 |

### 1

### 2

### 3

### 4

