

# Laboratory Melting Furnaces up to 1400 °C

These compact melting furnaces for the melting of non-ferrous metals and alloys are one of a kind and have a number of technical advantages. Designed as tabletop models, they can be used for many laboratory applications. The practical counter balanced hinge with shock absorbers and the spout (not for KC 4/14) on the front of the furnace make exact dosing easy when pouring the melt. The melting furnaces are available for furnace chamber temperatures of 1000 °C, 1300 °C, or 1400 °C.



Melting furnace KC 4/14

## Standard Equipment

- Tmax 1000 °C, 1300 °C, or 1400 °C
- Crucible sizes of 0.75, 1.5 or 3 liters
- Crucible with integrated pouring spout of clay-graphite included with delivery
- Additional spout (not for KC 4/14), mounted at the furnace for exact pouring
- Compact bench-top design, simple emptying of crucible by tilting system with gas damper
- Crucible for heating up of melting furnace insulated with a hinged lid, lid opened when pouring
- Controller R7 (resp. 3508 for KC), alternative controllers see page 78

## Additional Equipment

- Other crucible types available, e.g. steel
- Design as bale-out furnace without tilting device, e.g. for lead melting
- Over-temperature limiter for the furnace chamber with automatic reset to protect against overtemperature. The limit controller switches off the heating when the pre-set limit temperature has been reached and does not switch it on again until the temperature falls below the setting again.
- Observation hole for melt

Model	Tmax furnace °C	Tmax melt bath °C	Crucible	Capacity in kg		Volume in l	Outer dimensions <sup>3</sup> in mm			Connected load kW	Weight in kg
				Al	Cu		W	D	H		
K 1/10	1000	850	A6	1,5	-	0.75	600	710	670	3.0	85
K 2/10	1000	850	A10	3	-	1.50	600	710	670	3.0	90
K 4/10	1000	850	A25	7	-	3.00	670	800	710	3.5	110
K 1/13 <sup>1</sup>	1300	1150	A6	1,5	6	0.75	600	710	670	3.0	85
K 2/13 <sup>1</sup>	1300	1150	A10	3	10	1.50	600	710	670	3.0	90
K 4/13 <sup>1</sup>	1300	1150	A25	7	25	3.00	670	800	710	5.5	110
KC 1/14 <sup>2</sup>	1400	1250	A6	-	6	0.75	570	630	580	11.0	90
KC 2/14 <sup>2</sup>	1400	1250	A10	-	10	1.50	570	630	580	11.0	95
KC 4/14 <sup>2</sup>	1400	1250	A25	-	25	3.00	670	870	590	22.0	110

<sup>1</sup>Outer dimensions of furnace, transformer in separate housing (500 x 570 x 300 mm)

<sup>2</sup>Switchgear and controller mounted in a floor standing cabinet

<sup>3</sup>External dimensions vary when furnace is equipped with additional equipment. Dimensions on request.



Tilting-aid with dampers



Furnace K 4/10 with steel crucible, e.g. for tin melting



Melting furnace KC 1/14