

TCF - TILTING CRUCIBLE FURNACES

TOP DOOR · MODERN LINES · STURDY - ELECTRIC (GAS FIRED AVAILABLE)

Tilting Crucible Furnaces · Up to 1000°C - 1300°C - 1400°C

TCF compact tilting furnaces for melting non-ferrous metals and alloys with temperatures of 1000°C, 1300°C and 1400°C. Designed as tabletop or floor-standing models, they can be used for numerous laboratory applications. The furnace incorporates a top lid to prevent splashing to users with the option of a observation hole.

The furnace incorporates counterbalanced hinges with shock absorbers to facilitate accurate dosing when pouring the melt.

STANDARD FEATURES

- CE manufactured
- Maximum operating temperature:
Up to 1000°C - 1300°C and 1400°C
- Rapid heating
- Compact and lightweight
- Convincing price/performance ratio
- 2 heated sides with KANTHAL AF and APM
- Low thermal mass insulation
- Built with ceramic fiber insulation
- Double insulation includes air chamber
- Outer case in painted metal sheet (inox optional)
- Rear ventilation via ceramic chimney
- Thermocouple type K or S
- Spare parts easily replaceable by end user

FURNACE CONTROL

- Solid state relay
- **Ramp programmer up to 64 steos**
 - PID parameters
 - Non-volatile memory
 - Microprocessor-based temperature controls
 - Alarm

CONTROL OPTIONS (Optional)

- Eurotherm EPC Series + Data logger Itools software by Ethernet
- Eurotherm Nanodac Series + Data logger and Itools software by Ethernet according AMS2750E and 21CFR Part 11

SAFETY SHUT-OFF

- Thermocouple break shut-off

ACCESSORIES

- Silicon Carbide Crucibles
- Refractory, incoloy, SS Crucibles
- Forced cooling system
- Observation hole
- Safety alarm Class II. Over-temperature protection
- and more, ask for our full assortment!



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CHARACTERISTICS

- Modern design metal case with chrome-phosphatizing base protection and external finish with heat-resistant metal paint.
- Refractory parts engineered to resist extreme temperature changes, and specific ceramic paste types applied according to temperature and work fatigue of each part.
- Heat resistance in refractory insulation of very low thermal conductivity coefficient.
- Door system adjusted on the furnace frame by pressure, allowing for complete sealing. Electrically and thermally insulated door handle.

ACCESSORIES

- [Observation Hole:](#)
- [Crucibles](#)

SPECIFICATIONS

Fully customized solutions by request
We reserve the right to change technical specifications

Model	Outer dimensions mm			Tilted dimensions mm			Crucible Material	High mm	Diameter Ø	Volume Liters water	Power Kw	Voltage V	Max. Temp. ° C	Melting Temp. ° C	Termo- couple	Heating Elements
	High	Wide	Deep	High	Wide	Deep										
TCF1/10SS	700	675	685	1150	675	685	SS	355	205	---	4,5	220	1000	850	K	Kanthal Wire

Model	Outer dimensions mm			Tilted dimensions mm			Crucible Material	Capacity		Volume Liters water	Power Kw	Voltage V	Max. Temp. ° C	Melting Temp. ° C	Termo- couple	Heating Elements
	High	Wide	Deep	High	Wide	Deep		Al	Cu							
TCF1/10	700	675	685	1150	675	685	A10	3	10	2	4,5	220	1000	850	K	Kanthal Wire
TCF2/10	700	675	685	1150	675	685	A25	7	25	5	8	380	1000	850	K	Kanthal Wire

Model	Outer dimensions mm			Tilted dimensions mm			Crucible Material	Capacity		Volume Liters water	Power Kw	Voltage V	Max. Temp. ° C	Melting Temp. ° C	Termo- couple	Heating Elements
	High	Wide	Deep	High	Wide	Deep		Al	Cu							
TCF1/13	700	675	685	1150	675	685	A10	3	10	2	4,5	220	1300	1150	S	Kanthal Wire
TCF2/13	700	675	685	1150	675	685	A25	7	25	5	8	380	1300	1150	S	Kanthal Wire

Model	Outer dimensions mm			Tilted dimensions mm			Crucible Material	Capacity		Volume Liters water	Power Kw	Voltage V	Max. Temp. ° C	Melting Temp. ° C	Termo- couple	Heating Elements
	High	Wide	Deep	High	Wide	Deep		Al	Cu							
TCF1/14	700	675	685	1150	675	685	A10	3	10	2	4,5	220	1400	1250	S	Kanthal Wire
TCF2/14	700	675	685	1150	675	685	A25	7	25	5	8	380	1400	1250	S	Kanthal Wire

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	High	Wide	Deep	High	Wide	Deep		Al	Cu							
HCV56/12CR	900	800	800	Static			AX50	20	60	8	12	380	1200	1100	K	Kanthal Wire
HCV56/12TCR	1200	800	950	1500	800	950	AX50	20	60	8	12	380	1200	1100	K	Kanthal Wire
HCV56/14CR	900	800	800	Static			AX50	20	60	8	12	380	1400	1250	S	Kanthal Wire
HCV56/14TCR	1200	800	950	1500	800	950	AX50	20	60	8	12	380	1400	1250	S	Kanthal Wire

External dimensions vary when furnace is equipped with additional equipment. Dimensions on request

Independent furnace control box

Content may be subject to modifications or corrections

Custom designs available

Gas fired designs available