

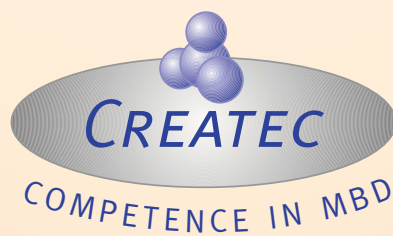
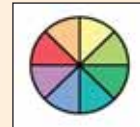


# HIGH TEMPERATURE CELL

*HTC*

Special design for a stable and precise  
flux control of low vapor pressure materials  
up to 2000 °C

All designed and  
manufactured by CreaTec  
Fischer & Co. GmbH



# HIGH TEMPERATURE CELL

HTC



CreaTec's high temperature effusion cell HTC is designed for the reliable evaporation of materials like Au, Fe, or Ti in a temperature regime up to 2000 °C.

A self-supported tungsten filament is used for the heating system and the hot area of the effusion cell is entirely made of tantalum and tungsten.

### OPTIONS:

- A variety of different crucible materials is available
- Crucibles with insert
- Downward looking version

### Technical Data

#### Standard :

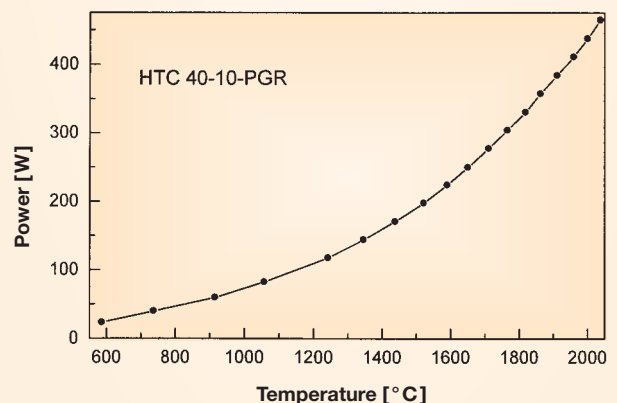
Type . . . . .	HTC
Heating system . . . . .	Radiation heating, tungsten (self supported)
Temperature range . . . . .	300 °C ... 2000 °C
Temperature stability . . . . .	0.1 K depending on the PID controller
Max. outgas. temp. . . . .	2100 °C
Max. power . . . . .	450 W (HTC-40-10-PGR)
Max. current . . . . .	20 A
Bakeout temperature . . . . .	250 °C
Conditioning . . . . .	Heated to maximum temperature with and without crucible
Shipping . . . . .	Stainless steel container with valve

#### Custom :

Flange size . . . . .	CF 40/ CF 63/ CF 100 (or specified)
Max. outer diameter . . . . .	38 mm/ 63 mm/ 100 mm etc.
Length . . . . .	As specified
Thermocouple type . . . . .	Type C/ WRe 5 % - 26 % (or specified)
Crucible material . . . . .	PGR/ W/ Ta/ Mo
Crucible capacity . . . . .	All standard sizes (or specified)

#### Options :

Integrated Shutter . . . . .	Optional
Water cooling . . . . .	Optional
Other dimensions . . . . .	As specified
Crucible with insert . . . . .	Optional
Downward looking . . . . .	Optional



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