



HIGH TEMPERATURE LABORATORY FURNACE - RHF

The RHF range of silicon carbide heated high temperature chamber furnaces comprises four chamber sizes, each available with three maximum operating temperatures of 1400 °C, 1500 °C and 1600 °C.

Robust construction and high quality elements provide rapid heating rates (typically reaching 1400 °C in under 40 minutes) and a long reliable working life.

STANDARD FEATURES

- | 1400°C, 1500°C or 1600°C maximum operating temperature
- | Carbolite Gero 301 controller, with single ramp to set-point & process timer
- | 3, 8, 15 or 35 litre chamber volumes
- | Vertical lift door keeps heated surface away from the user
- | Soft closing door (3 & 8 litre models only)
- | Silicon carbide heating elements provide long life and are able to withstand the stresses of intermittent operation
- | RHF 3 & 8 litre have a cast alumina hearth; RHF 15 & 35 have silicon carbide hearth
- | Low thermal mass insulation for high energy efficiency

OPTIONS (*SPECIFY THESE AT TIME OF ORDER*)

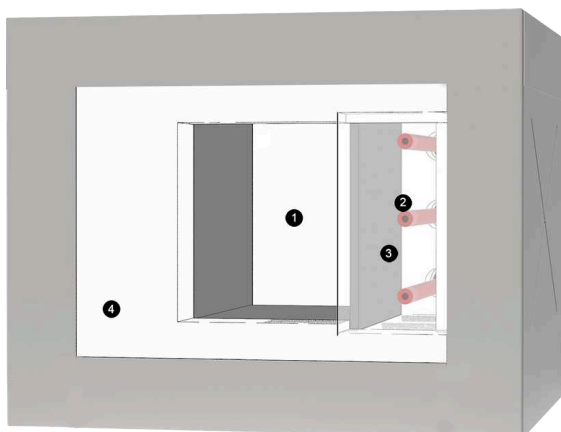
- | A range of sophisticated digital controllers, multisegment programmers and data loggers with digital communication options is available - more information about controllers
- | Over-temperature protection (recommended to protect valuable contents & for unattended operation)
- | Heating element protection tiles

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TECHNICAL DETAILS

RHF CHAMBER WITH SIC PROTECTION TILES

1. Working chamber
2. Heating Elements
3. SiC protection tiles
4. Thermal insulation



Layout diagram

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EXAMPLES



RHF 14/35 with catalytic afterburner



RHF 15/3 with EPC3008P10 programmer option



RHF 16/35 with EPC3016P1 programmer and overtemperature options

TECHNICAL DETAILS (MODELS)

	RHF 14/3	RHF 14/8	RHF 14/15
Max temp (°C)	1400	1400	1400
Heat-up time (mins)	33	22	35
Dimensions:			
Internal H x W x D (mm)	120 x 120 x 205	170 x 170 x 270	220 x 220 x 310
Dimensions: External H x W x D (mm) H (door open)	655 x 435 x 610 (905)	705 x 505 x 675 (990)	810 x 690 x 780 (1105)
Configuration	Bench-top	Bench-top	Bench-top
Volume (litres)	3	8	15
Max power (W)	4500	8000	10000
Holding power (W)	1900	3200	2900
Thermocouple type	R	R	R
Weight (kg)	42	64	125
Power supply required per phase	Single phase 200-240V 30A, 380-415V 2 phase 15A	Single phase 200-240V 50A, 380-415V 2 phase + N 25A	380-415V 3 phase + N 22A, 200-220V 3 phase delta 38A

	RHF 14/35	RHF 15/3	RHF 15/8
Max temp (°C)	1400	1500	1500
Heat-up time (mins)	38	45	40
Dimensions:			
Internal H x W x D (mm)	250 x 300 x 465	120 x 120 x 205	170 x 170 x 270
Dimensions: External H x W x D (mm) H (door open)	885 x 780 x 945 (1245)	655 x 435 x 610 (905)	705 x 505 x 675 (990)
Configuration	Bench-top	Bench-top	Bench-top
Volume (litres)	35	3	8
Max power (W)	16000	4500	8000
Holding power (W)	6000	2000	3500
Thermocouple type	R	R	R
Weight (kg)	179	46	61
Power supply required per phase	380-415 3 phase + N 35A, 200-220V 3 phase delta 60A, 440-480V 3 phase no N 35A	220-240V single phase 36A, 380-415V, 2 phasse + N, 18A	200-220 3 phase delta 30A, 200-208V 3 phase + delta 38A, 380-415V 3 phase delta 17.5A

	RHF 15/15	RHF 15/35	RHF 16/3
Max temp (°C)	1500	1500	1600
Heat-up time (mins)	46	46	42
Dimensions:			
Internal H x W x D (mm)	220 x 220 x 310	250 x 300 x 465	120 x 120 x 205
Dimensions: External H x W x D (mm) H (door open)	810 x 690 x 780 (1105)	885 x 780 x 945 (1245)	655 x 435 x 610 (905)
Configuration	Bench-top	Bench-top	Bench-top
Volume (litres)	15	35	3
Max power (W)	10000	16000	4500
Holding power (W)	3000	6200	2300
Thermocouple type	R	R	R
Weight (kg)	125	178	42
Power supply required per phase	380-415V 3 phase + N 25A, 230-240V 3 phase delta 43A,	380 - 415 3 phase + N 35A, 440-480V 3 phase no N 60A, 380-415V 3 phase no N 35A, 440-480 3 phase + N 35A	200-240V single phase 36A, 380-415V 2 phase + N 18A, 200-240V 3 phase delta 30A

	RHF 16/8	RHF 16/15	RHF 16/35
Max temp (°C)	1600	1600	1600
Heat-up time (mins)	35	58	113
Dimensions:			
Internal H x W x D (mm)	170 x 170 x 270	220 x 220 x 310	250 x 300 x 465
Dimensions: External H x W x D (mm) H (door open)	705 x 505 x 675 (990)	810 x 690 x 780 (1105)	1530 x 900 x 1020 (1885)
Configuration	Bench-top	Bench-top	Floor-standing
Volume (litres)	8	15	35
Max power (W)	8000	10000	16000
Holding power (W)	4000	3500	7000
Thermocouple type	R	R	R
Weight (kg)	61	140	270
Power supply required per phase	380-415V 3 phase + N 18A, 220-240V 3 phase delta 29A, 200-208V 3 phase delta 34A, 380-415V 3 phase no N 18A, 440-480V 3 phase no N 18A	380-415V 3 phase + N 25A, 200-240V 3 phase delta 42A, 440-480V 3 phase + N 25A	380-415V 3 phase + N 40A, 220-240V 3 phase delta 62A, 380-415 3 phase no N 37A, 440-480V 3 phase + N 40A

Please note

- Maximum continuous operating temperature is 100°C below maximum temperature
- Heat up rate is measured to 100°C below maximum, using an empty chamber
- Holding power is measured at continuous operating temperature

www.carbolite-gero.com/rhf