

High Temperature Laboratory Furnace - RHF

General Information

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
- Soft closing parallel action 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)

- Over-temperature protection (recommended to protect valuable contents & for unattended operation)
- A range of sophisticated digital controllers, multi-segment programmers and data loggers is available. These can be fitted with RS232, RS485 or Ethernet communications

Technical Specifications

RHF 14/3

Max temp (°C)	1400
Volume (litres)	3
Heat-up time (mins)	33
Dimensions: Internal H x W x D (mm)	120 x 120 x 205
Dimensions: External H x W x D (mm) H (door open)	655 x 435 x 610 (905)
Configuration	Bench-top
Max power (W)	4500
Holding power (W)	1900
Thermocouple type	R
Weight (kg)	42
Power supply required per phase	Single phase 200-240V 30A, 380-415V 2 phase 15A

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RHF 14/8

Max temp (°C)	1400
Volume (litres)	8
Heat-up time (mins)	22
Dimensions: Internal H x W x D (mm)	170 x 170 x 270
Dimensions: External H x W x D (mm) H (door open)	705 x 505 x 675 (990)
Configuration	Bench-top
Max power (W)	8000
Holding power (W)	3200
Thermocouple type	R
Weight (kg)	64
Power supply required per phase	Single phase 200-240V 50A, 380-415V 2 phase + N 25A

RHF 14/15

Max temp (°C)	1400
Volume (litres)	15
Heat-up time (mins)	35
Dimensions: Internal H x W x D (mm)	220 x 220 x 310
Dimensions: External H x W x D (mm) H (door open)	810 x 690 x 780 (1105)
Configuration	Bench-top
Max power (W)	10000
Holding power (W)	2900
Thermocouple type	R
Weight (kg)	125
Power supply required per phase	Single phase 200-240V 62A, 380-415V 3 phase + N 22A, 200-220V 3 phase delta 38A

RHF 14/35

Max temp (°C)	1400
Volume (litres)	35
Heat-up time (mins)	38
Dimensions: Internal H x W x D (mm)	250 x 300 x 465
Dimensions: External H x W x D (mm) H (door open)	885 x 780 x 945 (1245)
Configuration	Bench-top
Max power (W)	16000

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Holding power (W)	6000
Thermocouple type	R
Weight (kg)	179
Power supply required per phase	380-415 3 phase + N 35A, 200-220V 3 phase delta 60A, 440-480V 3 phase no N 35A

RHF 15/3

Max temp (°C)	1500
Volume (litres)	3
Heat-up time (mins)	45
Dimensions: Internal H x W x D (mm)	120 x 120 x 205
Dimensions: External H x W x D (mm) H (door open)	655 x 435 x 610 (905)
Configuration	Bench-top
Max power (W)	4500
Holding power (W)	2000
Thermocouple type	R
Weight (kg)	46
Power supply required per phase	220-240V single phase 36A, 380-415V, 2 phasse + N, 18A

RHF 15/8

Max temp (°C)	1500
Volume (litres)	8
Heat-up time (mins)	40
Dimensions: Internal H x W x D (mm)	170 x 170 x 270
Dimensions: External H x W x D (mm) H (door open)	705 x 505 x 675 (990)
Configuration	Bench-top
Max power (W)	8000
Holding power (W)	3500
Thermocouple type	R
Weight (kg)	61
Power supply required per phase	380-415V single phase 17.5, 200-220 3 phase delta 30A, 200-208V 3 phase + delta 38A, 380-415V 3 phase delta 17.5A

High Temperature Laboratory Furnace - RHF

RHF 15/15

Max temp (°C)	1500
Volume (litres)	15
Heat-up time (mins)	46
Dimensions: Internal H x W x D (mm)	220 x 220 x 310
Dimensions: External H x W x D (mm) H (door open)	810 x 690 x 780 (1105)
Configuration	Bench-top
Max power (W)	10000
Holding power (W)	3000
Thermocouple type	R
Weight (kg)	125
Power supply required per phase	200-240V single phase 75A, 380-415V 3 phase + N 25A, 230-240V 3 phase delta 43A,

RHF 15/35

Max temp (°C)	1500
Volume (litres)	35
Heat-up time (mins)	46
Dimensions: Internal H x W x D (mm)	250 x 300 x 465
Dimensions: External H x W x D (mm) H (door open)	885 x 780 x 945 (1245)
Configuration	Floor-standing
Max power (W)	16000
Holding power (W)	6200
Thermocouple type	R
Weight (kg)	178
Power supply required per phase	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

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RHF 16/3

Max temp (°C)	1600
Volume (litres)	3
Heat-up time (mins)	42
Dimensions: Internal H x W x D (mm)	120 x 120 x 205
Dimensions: External H x W x D (mm) H (door open)	655 x 435 x 610 (905)
Configuration	Bench-top
Max power (W)	4500
Holding power (W)	2300
Thermocouple type	R
Weight (kg)	42
Power supply required per phase	200-240V single phase 36A, 380-415V 2 phase + N 18A, 200-240V 3 phase delta 30A

RHF 16/8

Max temp (°C)	1600
Volume (litres)	8
Heat-up time (mins)	35
Dimensions: Internal H x W x D (mm)	170 x 170 x 270
Dimensions: External H x W x D (mm) H (door open)	705 x 505 x 675 (990)
Configuration	Bench-top
Max power (W)	8000
Holding power (W)	4000
Thermocouple type	R
Weight (kg)	61
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

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RHF 16/15

Max temp (°C)	1600
Volume (litres)	15
Heat-up time (mins)	58
Dimensions: Internal H x W x D (mm)	220 x 220 x 310
Dimensions: External H x W x D (mm) H (door open)	810 x 690 x 780 (1105)
Configuration	Bench-top
Max power (W)	10000
Holding power (W)	3500
Thermocouple type	R
Weight (kg)	140
Power supply required per phase	220-240V single phase 73A, 380-415V 3 phase + N 25A, 200-240V 3 phase delta 42A, 440-480V 3 phase + N 25A

RHF 16/35

Max temp (°C)	1600
Volume (litres)	35
Heat-up time (mins)	113
Dimensions: Internal H x W x D (mm)	250 x 300 x 465
Dimensions: External H x W x D (mm) H (door open)	1530 x 900 x 1020 (1885)
Configuration	Floor-standing
Max power (W)	16000
Holding power (W)	7000
Thermocouple type	R
Weight (kg)	270
Power supply required per phase	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



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.