

RHF – High Temperature Chamber Furnaces

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
- 3, 8, 15 or 35 litre chamber volumes
- Silicon carbide heating elements provide long life and are able to withstand the stresses of intermittent operation
- Carbolite 301 PID controller with single ramp to setpoint & process timer
- Hard wearing refractory brick door surround and silicon carbide hearth
- Low thermal mass insulation for energy efficiency & rapid heating & cooling



RHF 15/3

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 (see pages 88-91)



RHF 16/35

Power supplies for silicon carbide furnaces

A characteristic of the control systems used with silicon carbide elements results in a power supply which will be larger than expected eg RHF 14/3 at 4500 W =

- Single phase / 200 – 240 V / 30 A or
- 2 phase / 380 – 415 V / 15 A per phase.

Please see the specification table for power supply details.

Technical data

Model	Max temp (°C)	Heat-up time (mins)	Dimensions: Internal H x W x D (mm)	Dimensions: External H x W x D (mm) H (door open)	Volume (litres)	Holding power (W)	Max power (W)	Thermocouple type	Weight (kg)	Power supply		
										Volt	Phase	Ampere per phase
RHF 14/3	1400	33	120 x 120 x 205	655 x 435 x 610 (905) (Bench-top)	3	1900	4500	R	42	200 – 240	single phase	30
										380 – 415	2 phase + N	15
RHF 14/8	1400	22	170 x 170 x 270	705 x 505 x 675 (990) (Bench-top)	8	3200	8000	R	64	200 – 240	single phase	50
										380 – 415	2 phase + N	25
RHF 14/15	1400	35	220 x 220 x 310	810 x 690 x 780 (1105) (Bench-top)	15	2900	10000	R	125	200 – 240	single phase	62
										380 – 415	3 phase + N	22
										200 – 220	3 phase delta	38
RHF 14/35	1400	38	250 x 300 x 465	885 x 780 x 945 (1245) (Bench-top)	35	6000	16000	R	179	380 – 415	3 phase + N	35
										200 – 220	3 phase delta	60
										440 – 480	3 phase no N	35
RHF 15/3	1500	45	120 x 120 x 205	655 x 435 x 610 (905) (Bench-top)	3	2000	4500	R	46	200 – 240	single phase	36
										380 – 415	2 phase + N	18
RHF 15/8	1500	40	170 x 170 x 270	705 x 505 x 675 (990) (Bench-top)	8	3500	8000	R	61	380 – 415	3 phase + N	17.5
										200 – 220	3 phase delta	30
										200 – 208	3 phase delta	38
										380 – 415	3 phase delta	17.5
RHF 15/15	1500	46	220 x 220 x 310	810 x 690 x 780 (1105) (Bench-top)	15	3000	10000	R	125	200 – 240	single phase	75
										380 – 415	3 phase + N	25
										230 – 240	3 phase delta	43
RHF 15/35	1500	46	250 x 300 x 465	885 x 780 x 945 (1245) (Bench-top)	35	6200	16000	R	178	380 – 415	3 phase + N	35
										200 – 240	3 phase delta	60
										380 – 415	3 phase no N	35
										440 – 480	3 phase + N	35
RHF 16/3	1600	42	120 x 120 x 205	655 x 435 x 610 (905) (Bench-top)	3	2300	4500	R	42	200 – 240	single phase	36
										380 – 415	2 phase + N	18
										200 – 240	3 phase delta	30
RHF 16/8	1600	35	170 x 170 x 270	705 x 505 x 675 (990) (Bench-top)	8	4000	8000	R	61	380 – 415	3 phase + N	18
										220 – 240	3 phase delta	29
										200 – 208	3 phase delta	34
										380 – 415	3 phase no N	18
										440 – 480	3 phase no N	18
RHF 16/15	1600	58	220 x 220 x 310	810 x 690 x 780 (1105) (Bench-top)	15	3500	10000	R	140	200 – 240	single phase	73
										380 – 415	3 phase + N	25
										200 – 240	3 phase delta	42
										440 – 480	3 phase + N	25
RHF 16/35	1600	113	250 x 300 x 465	1530 x 900 x 1020 (1885) (Floor-standing)	35	7000	16000	R	270	380 – 415	3 phase + N	40
										220 – 240	3 phase delta	62
										380 – 415	3 phase no N	37
										440 – 480	3 phase + N	40

i Please note:

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



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Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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