

Column Heaters

Grace® and Jetstream Models



<ul style="list-style-type: none"> Rugged, reliable, easy-to-use Precise temperature control above ambient Temperature cut-out with RS232 interface Block heater with LED interface 	<ul style="list-style-type: none"> Controls one or two columns Independent temperatures Single and dual output controllers Long column oven RS232 interface 	<ul style="list-style-type: none"> Stabilizes column temperatures Temperatures range: 0 to 95°C Ideal for GLP and FDA-regulated analyses Heater/Chiller with long column oven RS232 interface 	<ul style="list-style-type: none"> Peltier column thermostat heats to 85°C and cools to 5°C Temperature may be fixed or changed via step or linear gradient Large column compartment holds five columns up to 1" o.d. and 35cm in length
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Specifications

Access to Columns	Cover	Cover	Cover	Door
Temperature Range:	30–99°C	30–75°C	0–95°C	5–85°C
Column Capacity (Excluding Guards):	1–2, depending on size	1 column per oven	1–2, depending on size	5
Maximum Column o.d.:	1/2"	1/4"	1/2"	1"
Maximum Column Length:	30cm	30cm	30cm	35cm
Cavity Dimensions:	1" H x 2" W x 14" L (2.6cm H x 5.1cm W x 35.6cm L)	0.79" H x 0.75" W x 14.2" L (2cm H x 1.9cm W x 36cm L)	0.9" H x 1.7" W x 14.2" L (2.3cm H x 4.2cm W x 36.1cm L)	15.4" H x 3.3" W x 2" L (39.2cm H x 8.5cm W x 5cm L)
Temperature Accuracy:	±0.5°C	±0.5°C	±0.5°C	±0.2°C
Temperature Stability:	±0.2°C	±0.2°C	±0.2°C	±0.1°C
Operating Voltage:	120V/60Hz, 240V/50Hz, 250W	120V/60Hz, 240V/50Hz, 100W	120V/60Hz, 240V/50Hz, 250W	100–245VAC, 50/60 Hz, 100W
Warranty:	1 year	1 year	1 year	1 year

Ordering Information

Model	Grace® 7971R	Grace® 7990R w/Controller	Grace® 7956R w/Controller	Jetstream Plus 2
	Part No.	Part No.	Part No.	Part No.
Block heater with one block set and RS232	5135360, 110V 5135361, 220V	—	—	—
Single output controller, long column oven and RS232	—	5109747, 110V 5111660, 220V	—	—
Dual output controller, 2 long column ovens, and RS232 interface	—	5109749, 110V 5111662, 220V	—	—
Heater/Chiller with RS232	—	—	5111646, 110V 5111645, 220V	—
Jetstream 2 Plus Heater/Chiller, 75cm cable	—	—	—	531102, dual voltage
Jetstream 2 Plus Heater/Chiller, 150cm cable	—	—	—	531202, dual voltage

Column Heaters

Alltech® and Eppendorf® Models



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| <ul style="list-style-type: none"> • Microprocessor controlled temperature • Column preheater to improve performance • Available in stainless steel or PEEK flow paths | <ul style="list-style-type: none"> • Controls any Eppendorf Heater • Adjust temperature in 0.1°C increments • Monitor "set" and "read" on the LED • Remote external ON or OFF feature | <ul style="list-style-type: none"> • Fits one column up to 1/2" o.d. and 30cm in length • Supports all column lengths to 30cm • Requires TC-50 temperature controller | <ul style="list-style-type: none"> • Holds four columns and two Rheodyne valves • CH-430 holds columns up to 30cm in length • CH-460 holds columns up to 50cm in length • Ideal for multi-column GPC, sample injection or column switching applications • Adjust temperature in 0.1°C increments • Requires TC-50 temperature controller |
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Specifications

	Alltech® 631	Eppendorf® TC-50 Temperature Controller	Eppendorf® CH-30	Eppendorf® CH-430	Eppendorf® CH-460
Access To Columns	Drawer	Controller	Cover	Cover	Cover
Temperature Range:	Ambient–85°C	Ambient–150°C	Ambient–150°C	Ambient–150°C	Ambient–150°C
Column Capacity (Excluding Guards):	2	NA	1	4	4
Maximum Column o.d.:	1/2"	NA	1/2"	1/2"	1/2"
Maximum Column Length:	30cm	NA	30cm	30cm	50cm
Cavity Dimensions:	1.8" H x 5" W x 16.5" D (5cm H x 13cm W x 42cm D)	3.25" H x 7" W x 8.5" D (8.3cm H x 17.8cm W x 21.6cm D)	3" H x 2.75" W x 19.5" D (7.6cm H x 7cm W x 49.5cm D)	3.5" H x 6.5" W x 21" D (8.9cm H x 16.5cm W x 53cm D)	3.5" H x 6.5" W x 29.5" D (8.9cm H x 16.5cm W x 74.9cm D)
Temperature Accuracy:	±1°C	±1°C	±0.5°C	±0.5°C	±0.5°C
Temperature Stability:	±0.10°C	±0.10°C	±0.2°C	±0.2°C	±0.2°C
Operating Voltage:	110V, 220V	110V, 220V	120V/60Hz, 240V/50Hz 250 watts	120V/60Hz, 240V/50Hz 100 watts	120V/60Hz, 240V/50Hz 250 watts
Inlet Preheaters:	Included	NA	Included	Four sets included	
Heater Element:	Microprocessor controlled	NA	125W vulcanized to heating block	300W (CH-430) or 500W (CH-460) vulcanized to heating block	
Heater Block:	NA	NA	Aluminum, two-part oven	Aluminum, two-part oven	
Sensor:	NA	NA	1000Ω Platinum RTD	1000Ω Platinum RTD	
Thermal Cut-Out:		NA	155°C ±5°C temperature limit	155°C ±5°C temperature limit	
TC-50 Temperature Controller required:	No	NA	Yes	Yes	Yes
Warranty:	1 year	1 year	1 year	1 year	1 year

Ordering Information

Model	Alltech® 631	Eppendorf® TC-50 Temperature Controller	Eppendorf® CH-30*	Eppendorf® CH-430*	Eppendorf® CH-460*
Description	Column Heater, PEEK	Temperature Controllers	Column Heaters	Column Heaters	Column Heaters
	Part No.	Part No.	Part No.	Part No.	Part No.
110V	631100	85910	85975	85980	85971
220V	631200	85911	85976	85981	85972
Description	Column Heater, SS				
110V	631300	—	—	—	—
220V	631400	—	—	—	—

*Eppendorf® column heaters require the TC-50 controller.