HPLC Accessories

Temperature Control

Eppendorf HPLC Temperature Control Systems

Column temperature control leads to:

• More reproducible retention times More stable baselines • Faster analyses • Less system wear

Column temperature control is essential to reproducible retention times and detector baseline stability in reversed phalsehasem ion exchange, and size exclusion liquid chromatography. The temperature variation in most labs – a 3-4°C daily fluctuation – is sufficient to cause errors in quantification or peak identification, particularly in automated systems and systems incotepometira-ture-sensitive detectors.

To enable you to design a temperature control system that best matches your needs, we offer these Eppendorf heateræmd control Model CH-500 incorporates both heat and control functions; Models CH-30, CH-430, and CH-460 heaters (next page) MUST be connected to a separate controller.

SPECIFICATIONS					
FOR TEMPERATURE CONTROLLERS					
Model: Temperature Range: Readability: Setability: Set Control: Typical Stability: Absolute Accuracy: Display:	CH-500 ¹ amb150°C 0.1°C 10 turn potentiometer ±0.1°C ±1°C (50°C) 3 1/2 digit LED	TC-45 30-65°C 5°C 8 DIP switches ±0.1°C ±1°C (50°C) DIP switches	TC-50 amb150°C 0.1°C 10 turn potentiometer ±0.1°C ±1°C (50°C) 4 digit LED	TC-55 ² amb150°C 0.01°C membrane switches or RS-232 $\pm 0.01°C$ $\pm 1°C$ (50°C) 5 digit LED each	
Power:	120/240VAC	120/240VAC	120/240VAC	120/240VAC	
FOR COLUMN HEATERS					
Model: Temperature Range: Length: ³ OD:	CH-30, CH-500 ¹ amb150°C ≤30cm CH-30: ≤1/2" OD CH-500: two 1/2" OI	D plus two 1/8" OD	CH-430 amb150°C ≤30cm ≤1/2" OD (four)	CH-460 amb150°C ≤50cm ≤1/2" OD (four)	
Injector Heating: Power: Sensor: Element: ¹ Heater/controller (combined).	No 120/240VAC 1000 ohm RTD 125W		Yes (two) 120/240VAC 1000 ohm RTD 300W	Yes (two) 120/240VAC 1000 ohm RTD 500W	
² Model TC-55 can control 2 heaters i	ndependently.				

³ Not including endfittings.

⁴ Heating channels for 1/8" columns can be used to heat solvent before it enters the injector.



This heater/controller essentially combines the features of the CH-30 heater and the TC-50 controller in a single unit. It includes Eppendorf's innovative reversible heating blocks and remote heater on/off capability. Alternatively, the heating channels for 1/8" columns can be used to heat solvent before it enters the injector.

500844

CE/CSA/UL approved.

CH-500 HEATING COLUMN COMBINATIONS

Two 1/4" x \leq 30cm and two 1/8" x \leq 30cm columns. One 3/8" x <30cm column and 1/4" x <30cm column and one 1/8" x <30cm column. One 1/2" x <30cm column and 1/4" x <30cm column and one 1/8" x <30cm column. Two 3/8" x <30cm columns. Two 1/2" x <30cm columns. One 3/8" x <30cm column and one 1/2" x <30cm column.

DESCRIPTION	CAT. NO.	PRICE		
CH-500 COLUMN HEATING SYSTEM				
120V 240V, with standard European cord 240V, with UK cord	500844 500852 500860			
REPLACEMENT HEATING BLOCKS FOR CH-500				
4" (pk. of 2) 1" (pk. of 2)	500879 500895			

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HPLC Accessories **Temperature Control**





Eppendorf TC-45 Temperature Controller

This low-cost controller will control a CH-30, CH-430, or CH-460 Eppendorf heater from 30-65°C. Temperature is set via DIP Maximum column length is 30cm (not including endfittings). switches in 5°C increments.

DESCRIPTION	CAT. NO.	PRICE
120V	56760-U	
240V ¹	500763	



Eppendorf TC-50 Temperature Controller

Controls a CH-30, CH-430, or CH-460 Eppendorf heater from ambient temperature to 150°C. Temperature is set via a 10 to potentiometer. The set point and actual temperature are displayed on an LED display. Includes remote heater on/off capability and solid state control.





Holds one column up to 1/2" OD or two columns up to 3/8" OD.

DESCRIPTION	CAT. NO.	PRICI	
120V 240V ¹	56766 500801		
	CH-430 56768		upelco
	A		ch.com/s
Encoderf CI 120 Column Hester			ldri

Eppendorf CH-430 Column Heater

gma-al The model CH-430 column heater is like the model CH-30, except that it is wider, to accommodate up to four 30cm long columns (not including endfittings). The CH-430 heater also hai provisions for heating two 7000 series Rheodyne valves. W W.

amplent temperature to 150 (. Temperature is set via a 10 turn					≥
potentiometer. The set point a	and actual temperature are	DESCRIPTION		CAT. NO.	PRICE	≥
displayed on an LED display.	Includes remote heater on/off	120V 240V ¹		56768 500828		e P
capability and solid state con	tioi.	2101		000020		Ś
DESCRIPTION	CAT. NO. PRICE					4
120V 240V ¹	56762 500771			CH-460		59.30.
TC-55 56764	- An	Eppendorf CH-460 Column Heater		56770-U		800.3
		The model CH-460 is model CH-430, except longer, to accommode 50cm long columns (re endfittings). The CH-4 provisions for heating	i like the ot that it is ate up to four not including 460 heater also ha two 7000 series	35	00513	Service: 1.
Eppendorf TC-55 Temperature	e Controller	Rheodyne valves.	,	1 PPP	0000	са I
This top-of-the-line controller	will control up to two CH-30, CH-	DESCRIPTION		CAT. NO.	PRICE	hn
430, or CH-460 Eppendorf he technology. Proportional heat	eaters, using microprocessor ing is used to maintain very stabile	120V e 240V ¹		56770-U 500836		Tec
temperatures. Temperature is (1 set for each of 2 ovens).	s set via up/down membrane switc	COLUMN ENVELOPES F OR CH-460 COLUMN HE	FOR CH-30, CH-430 EATERS	,		301U
Set point and actual tempera Includes an RS-232 interface programming, recording, etc.	ture are displayed on an LED disp for external control of temperature	la¥/4 OD (in.) ∋ 3/8 OD (in.) 1/2 OD (in.)	-l.	56772-U 56773 56774-U		00.325.
DESCRIPTION	CAT. NO. PRICE	Does not have a CE mai	к.			×
120V	56764					
240V1	500798					er
						ž

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