GCHI & GCHIB

Steam, Air & Gas Applications to 750°F¹

- 3 18" ANSI Blind Flange Design
- 3 18" Carbon Steel Pipe Body, 150 Lb Construction (750°F Max. Vessel and 1600°F Max. Sheath Temp.)¹ For Stainless Steel Pipe Body Construction, Refer to GCHIS Series Circulation Heaters.
- 3 350kW
- 240 and 480V, 1 & 3 Phase
- General Purpose, Moisture Resistant/Explosion Resistant, Explosion Resistant or Moisture Resistant Terminal Enclosure
- 0.475" Dia. INCOLOY® Sheath Elements (15 - 23 W/In²)
- 3 and 5" with Side Mounted Thermostat (200 - 550°F), 8, 10, 14 and 16" without Thermostat
- CSA and Other Third Party Approval, Listing or Certification Available



Applications

Steam, Air and Gas — Higher kW ratings for larger industrial and commercial gas heating applications.

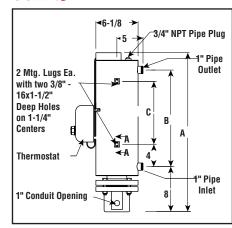
Features

Terminal Enclosure — E1 General Purpose is standard. E2 Moisture Resistant/Explosion Resistant, E3 Explosion Resistant or E4 Moisture Resistant available.

Elements — 0.475" diameter INCOLOY® sheath elements.

Flange — 3 -10" ANSI B-16.5 flange with 1/2" thermowell for thermostat bulb and a 1/8" NPT threaded opening for a thermocouple or RTD.

Dimensions (Inches) GCHI-03



Vessel — Pipe body and nozzles are ASTM A53B carbon steel pipe. The end disk is ASTM A516 Grade 70 carbon steel plate. Provided with thermal insulation and painted sheet metal jacket.

Baffle Assembly — Internal baffle assemblies are provided on GCHIB-18 models. Baffles reduce the internal cross sectional area thereby increasing the velocity of the gas. Increasing the gas velocity reduces the operating temperature of the elements and the shell of the vessel.

Wiring — Convenient field wiring terminals are provided for easy installation.

Controls — Series 03 and 06 stock and assembly stock heaters come equipped with side mounted thermostat. Series 18, 27, 45 and 108 are furnished without thermostat.

Specifications and Ordering Information

		Ckt &	Din	nensions (I	n.)				Wt.		
kW	Volts	Phase	A	A B C		Model	Stock	PCN	(Lbs.)		
Series 03 — 3 inch, 150 lb carbon steel vessel — 3 INCOLOY® elements¹ (23 W/ln²) with thermostat											
3	240 240	1-1 1-3	32-15/16 32-15/16	22-1/2 22-1/2	16-1/2 16-1/2	GCHI-03-003P-E1 GCHI-03-003P-E1	AS S	013240 103915	62 62		
3	480 480	1-1 1-3	32-15/16 32-15/16	22-1/2 22-1/2	16-1/2 16-1/2	GCHI-03-003P-E1 GCHI-03-003P-E1	AS S	013258 103958	62 62		
4.5 4.5	240 240	1-1 1-3	32-15/16 32-15/16	22-1/2 22-1/2	16-1/2 16-1/2	GCHI-03-04P5-E1 GCHI-03-04P5-E1	AS AS	013266 104070	72 72		
4.5 4.5	480 480	1-1 1-3	32-15/16 32-15/16	22-1/2 22-1/2	16-1/2 16-1/2	GCHI-03-04P5-E1 GCHI-03-04P5-E1	AS S	013274 104117	72 72		
6	240 240	1-1	42-15/16 42-15/16	32-1/2 32-1/2	26-1/2 26-1/2	GCHI-03-006P-E1 GCHI-03-006P-E1	AS S	013282 104230	94 94		
6	480	1-3 1-1	42-15/16	32-1/2	26-1/2	GCHI-03-006P-E1	AS	013290	94		
6	480	1-3	42-15/16	32-1/2	26-1/2	GCHI-03-006P-E1	S	104272	94		

Stock Status: S = stock AS = assembly stock NS = non-stock **To Order**—Specify model, volts, phase, kW, PCN and quantity.

 Outlet gas temperature must be kept below both maximum sheath and vessel temperature or element and heater damage may occur. Contact your Local Chromalox Sales office for application assistance.

Circulation

GCHI & GCHIB

Steam, Air & Gas Applications to 750°F¹ *(cont'd.)*

Specifications and Ordering Information

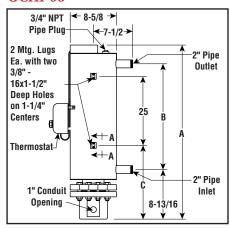
	Volts	Ckt & Phase	Dir	nensions (I					14/4	
kW			A	В	С	Model	Stock	PCN	Wt. (Lbs.)	
Series 06 — 5 inch, 150 lb carbon steel vessel — 6 INCOLOY® elements¹ (23 W/ln²) with thermostat										
9 9 9	240 240 480 480	1-1 1-3 1-1 1-3	41-3/4 41-3/4 41-3/4 41-3/4	30 30 30 30	11-3/8 11-3/8 11-3/8 11-3/8	GCHI-06-009P-E1 GCHI-06-009P-E1 GCHI-06-009P-E1 GCHI-06-009P-E1	AS AS AS	013303 104715 013311 013320	135 135 135 135	
12	240	1-1	48-3/4	37	14-7/8	GCHI-06-012P-E1	AS	013338	164	
12	240	1-3	48-3/4	37	14-7/8	GCHI-06-012P-E1	S	104870	164	
12	480	1-1	48-3/4	37	14-7/8	GCHI-06-012P-E1	AS	013346	164	
12	480	1-3	48-3/4	37	14-7/8	GCHI-06-012P-E1	S	104598	164	
20	240	1-1	60-1/4	48-1/2	20-5/8	GCHI-06-020P-E1	AS	013354	195	
20	240	1-3	60-1/4	48-1/2	20-5/8	GCHI-06-020P-E1	AS	013362	195	
20	480	1-1	60-1/4	48-1/2	20-5/8	GCHI-06-020P-E1	AS	013370	195	
20	480	1-3	60-1/4	48-1/2	20-5/8	GCHI-06-020P-E1	S	105478	195	
25 25 25 25	240 480 240 480	1-1 1-3 1-1 1-3	73-5/8 73-5/8 73-5/8 73-5/8	61-7/8 61-7/8 61-7/8 61-7/8	27-5/16 27-5/16 27-5/16 27-5/16	GCHI-06-025P-E1 GCHI-06-025P-E1 GCHI-06-025P-E1 GCHI-06-025P-E1	AS AS AS	013389 013397 013400 013418	212 212 212 212 212	
30	240	1-3	86-5/8	74-7/8	33-7/8	GCHI-06-030P-E1	AS	013434	240	
30	480	1-3	86-5/8	74-7/8	33-7/8	GCHI-06-030P-E1	AS	013450	240	
Ser (20	ies 18 W/In²)	— 8 inch, 1	50 lb carb	on steel v	/essel — 1	8 baffled INCOLOY®	elem	ents¹		
30	240	3-3	54-5/16	32-11/16	29-3/16	GCHIB-18-030P-E1	NS	080768	350	
30	480	3-3	54-5/16	32-11/16	29-3/16	GCHIB-18-030P-E1	NS	080776	350	
40	240	3-3	61-5/16	39-11/16	36-3/16	GCHIB-18-040P-E1	NS	080784	420	
40	480	3-3	61-5/16	39-11/16	36-3/16	GCHIB-18-040P-E1	NS	080792	420	
50	240	3-3	68-15/16		43-13/16	GCHIB-18-050P-E1	NS	080805	480	
50	480	3-3	68-15/16		43-13/16	GCHIB-18-050P-E1	NS	080813	480	
Ser	ies 27	— 10 inch,	150 lb car	bon steel	vessel —	27 INCOLOY® eleme	nts¹ (15 W/In²)		
50	240	3-3	68-9/16	43	39-1/2	GCHI-27-050P-E1	NS	020212	400	
50	480	3-3	68-9/16	43	39-1/2	GCHI-27-050P-E1	NS	020220	400	
60	240	3-3	75-9/16	50	46-1/2	GCHI-27-060P-E1	NS	020239	440	
60	480	3-3	75-9/16	50	46-1/2	GCHI-27-060P-E1	NS	020247	440	
70	240	3-3	81-9/16	56	52-1/2	GCHI-27-070P-E1	NS	020255	480	
70	480	3-3	81-9/16	56	52-1/2	GCHI-27-070P-E1	NS	020263	480	
80	240	3-3	91-9/16	66	62-1/2	GCHI-27-080P-E1	NS	020271	520	
80	480	3-3	91-9/16	66	62-1/2	GCHI-27-080P-E1	NS	020280	520	
90	240	3-3	100-9/16		71-1/2	GCHI-27-090P-E1	NS	020298	560	
90	480	3-3	100-9/16		71-1/2	GCHI-27-090P-E1	NS	020300	560	

Stock Status: S = stock AS = assembly stock NS = non-stock **To Order**—Specify model, volts, phase, kW, PCN and quantity.

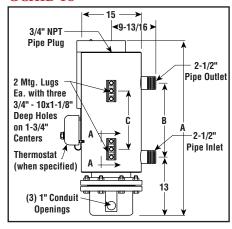
Other Note — Refer to the Controls section for side mounted controls or control panels.

Dimensions (Inches)

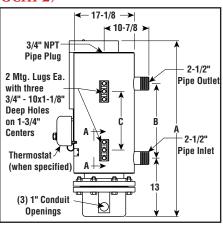
GCHI-06



GCHIB-18



GCHI-27



Outlet gas temperature must be kept below both maximum sheath and vessel temperature or element and heater damage may occur. Contact your Local Chromalox Sales office for application assistance.

Circulation

GCHI & GCHIB

Steam, Air & Gas Applications to 750°F¹ *(cont'd.)*

Specifications and Ordering Information

F	9				8 - 19 - 11						
			Dimensions (In.)								1471
kW		Ckt & Phase	A	В	С	D	Е	Model	Stock	PCN	Wt. (Lbs.)
Series 45 — 14 inch, 150 lb carbon steel vessel — 45 INCOLOY® elements¹ (15 W/ln²)											
75 90	480 480	3-3 3-3		57-3/16 57-3/16	66-11/16 66-11/16	15 15		GCHI-45-075P-E1 GCHI-45-090P-E1	NS NS	086238 086254	
125 150 175	480 480 480	3-3 3-3 3-3	106	72-3/16 87-3/16 102-3/16	81-11/16 96-11/16 111-11/16	15 15 15	11-1/2	GCHI-45-125P-E1 GCHI-45-150P-E1 GCHI-45-175P-E1		086270 086297 086318	1,125
Serie	es 72	— 16	inch,	150 lb ca	rbon steel	ves	sel — 72	2 INCOLOY® eleme	nts¹ (15 W/In ²)
200 225 250	480 480 480	3-3 3-3 3-3	101	74-5/8 82-5/8 90-5/8	84-1/8 92-1/8 100-1/8	16 16 16	12-3/4	GCHI-72-200P-E1 GCHI-72-225P-E1 GCHI-72-250P-E1	NS	086393 086369 086334	1,310
Seri	Series 108 — 18 inch, 150 lb carbon steel vessel —					ssel —	108 INCOLOY® eler	nents	1 (15 W/I	n²)	
300 325 350	480 480 480	6-3 6-3 6-3	100	75-1/2 81-1/2 87-1/2	85 91 97	17 17 17	13-1/2	GCHI-108-300P-E1 GCHI-108-325P-E1 GCHI-108-350P-E1	NS	086457	1,450
								NC non stock	140	000401	1,50

Stock Status: S = stock AS = assembly stock NS = non-stock **To Order**—Specify model, volts, phase, kW, PCN and quantity.

1. Recommended temperature limits for all GCH heaters with carbon steel vessels and INCOLOY® elements are 1600°F maximum for the sheath temperature and 750°F maximum for the vessel temperature at 5 psi pressure maximum. Exceeding these recommendations will void the factory warranty. Outlet gas temperatures must be kept below both the maximum sheath and vessel temperature or element and vessel damage may occur. Contact your Local Chromalox Sales office for assistance in determining the gas flow characteristics and proper heater selection. Heaters supplied without controls.

Other Note — Refer to the Controls section for side mounted controls or control panels.

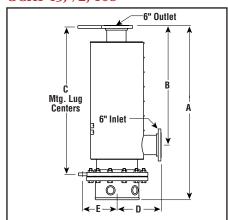
Ordering Information

To Order — Complete the Model Number using the Matrix provided.

Model	Steam,	Air and	Gas to 75	0°F¹						
GCHI B	Gas Circulation Heater — INCOLOY® Elements — Steel Vessel Internal Baffles									
	Code	Numb	Number of Elements							
	03 06 18 27	Three Six Eighte Twenty	en y Seven	45 72 108	Forty Five Seventy Two One Hundred Eight					
		Code	kW							
		003P 04P5 006P 009P 012P 020P 025P 030P	3 4.5 6 9 12 20 25 30	040P 050P 060P 070P 075P 080P 090P 125P	70 75 80	150P 200P 225P 250P 300P 325P 350P	250 300			
			Code	iermi	inai Enc	iosure				
			E1 E2			ose istant/Expl	losion			
			E3 E4		sion Res ure Res					
GCHI	45	072P	E1	Typica	al Mode	l Number				

Dimensions (Inches)

GCHI-45, 72, 108



GCHI-AA

