



HOPKINS™

Horizontal Coil Design Thermal Fluid Heater

1 Million - 40 Million BTU/hr

- ▶ Temperatures up to 650°F
- ▶ 2-Pass Horizontal Design
- ▶ Low NOx Burners Available



SPECIFICATIONS & DIMENSIONS

	MODEL HPN	100S	200S	350S	600S	800S	1000S	1200S	1400S	1600S	2000S	2400S	3000S	4000S
SPECIFICATIONS														
Heat Input *	1,000 BTU/hr	1,025	2,410	4,217	7,229	9,636	12,048	14,458	16,867	19,277	24,096	28,916	36,145	48,193
Heat Output	1,000 BTU/hr	1,000	2,000	3,500	6,000	8,000	10,000	12,000	14,000	16,000	20,000	24,000	30,000	40,000
Flow Rate-Standard **	GPM	75	150	265	425	600	725	900	1,050	1,200	1,500	24	2,250	3,000
Flow Rate-Low Flow ***	GPM	40	75	135	225	300	375	450	525	600	750	24	1,125	1,500
Circulating Pump Motor (STD)	HP	7.5	15	20	30	40	50	60	75	100	100	24	150	200
Circulating Pump Motor (LF)	HP	7.5	7.5	15	20	30	30	40	30	40	50	24	75	100
Blower Motor	HP	1/3	1	2	7.5	10	10	5	7.5	7.5	15	24	25	30
Pressure Drop (STD)	PSI	10	23	11	16	16	13	16	10	15	14	15	24	21
Pressure Drop (LF)	PSI	15	19	11	14	15	18	14	11	15	20	14	24	17
DIMENSIONS														
Overall Height (w/o Stack)	IN	51	60	62	82	82	105	105	106	106	125	133	133	142
Overall Width	IN	42	50	50	74	93	87	103	110	110	123	130	130	142
Overall Length	IN	115	152	211	231	302	311	360	408	444	450	550	575	648
Inlet/Outlet Connections	IN	2	3	3	4	6	6	8	8	8	10	12	12	12
Thermal Liquid Volume	GAL	45	86	168	426	661	724	853	1,168	1,400	1,721	2,322	3,180	4,626
Approx. Dry Weight	LBS	3,936	6,800	9,052	14,350	18,500	23,100	26,800	30,500	32,600	41,400	68,000	74,000	80,000
Approx. Flooded Weight	LBS	4,310	7,514	10,447	17,886	23,987	29,110	33,880	40,195	44,220	55,685	87,273	100,394	118,396
Floor Loading	LB/FT3	129	143	143	151	123	155	132	129	131	145	176	194	186

* Values are based on LHV of Natural Gas; Consult factory for site input

** Standard flow rate yields a heater temperature rise of 55° Fahrenheit

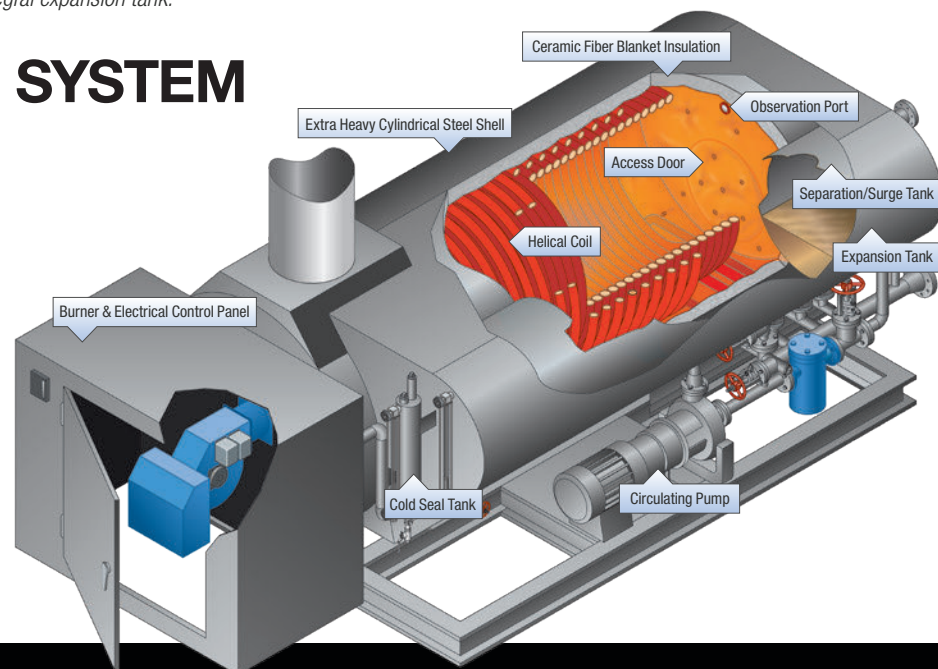
*** Low flow rate models yield a heater temperature rise of 110° Fahrenheit

NOTE: Dimensions shown are for the Hopkins without the integral expansion tank.

NOTE: Specifications and dimensions are approximate and for reference only. Fulton practices continuous product improvement and reserves the right to change specifications and/or dimensions without notice.

THE COMBUSTION SYSTEM

- 1 Air and fuel mix in the open-protocol burner at the front of the heater, firing down the center of the vessel to form the first pass.
- 2 Hot gases turn at the rear and flow between two rolls of coils back to the front, forming the second pass.
- 3 Gases move along the outside of the coils to the rear, forming the third pass before exiting through the flue.



Call: (315) 298-5121

972 Centerville Road
Pulaski, NY 13142



fulton.com/hopkins

Drawings & documentation available online

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