



Providing comfort for the building environment

US Commercial Heating CatalogJanuary 2024



Why choose Smith's?

If you require energy efficiency and versatility in your heating, the Smith's range is the ideal solution

For over twenty-five years, Smith's EP has been manufacturing and providing an extensive range of commercial and residential heating solutions. Part of the global family-owned US-based business, the Swan Group, Smith's works closely with architects, consultants, heating contractors and installers to deliver, via our stockist network, high quality products with industry-leading warranties on time, with an aftercare and technical support service that is second to none.

We take an active, innovative approach to new product development and creating tailored heating products to fulfil the creative requirements of a competitive and demanding customer base. We believe it is essential to be flexible in our partnerships, while remaining uncompromising on the high quality and care that goes into every product in our range. Smith's is an outward-looking, growing business and we are forging relationships with like-minded manufacturers across North America to ensure that we can provide additional new and essential heating solutions in areas where we do not specialise and where our partners excel.

Our latest price list showcases our principal commercial and residential products. At the same time, we have the ability and the will to work alongside clients at any point in the construction process, and collaborate to develop specific solutions for any and every need. We take great pride and go to great lengths to leave our customers not only satisfied but coming back again and again for solutions that are perfect for your project, each and every time.

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Caspian UV

A range of fan convectors suitable for all kinds of commercial applications, from churches to office developments, with the ability to rapidly heat large areas with much greater efficiency than other heat emitters

Applications

Showrooms and shops Entrance hall/Corridor Waiting room Meeting room/Hall/Club Changing room Bar/Tavern/Restaurant Place of worship School/Nursery Care home/Hospital Library



Features

- Incorporating the latest ECM motor technology, which can result in running-cost savings as high as 80%, and with variable speed control as standard, the Caspian delivers heat quickly and quietly
- Caspians are compatible with most types of hydronic heating systems, functioning equally efficiently with conventional boilers, biomass technology or ground or air source heat pumps

Motor

ECM standard

Finish

Casing: zinc-coated 18 gauge steel Polyester powdercoated: white RAL 9010. Available to special order in any color and with anti-microbial or anti-bacterial paint (longer lead times may apply)

Filter

MERV 6, 100% polyester, non-washable

Installation

Maximum installation height for high or ceiling mounting, - 13' to underside

Pipework access holes on the rear and underside Bleed valve accessible by removal of front casing

Controls

Standard speed control: The speed controller powered by the 10V DC output from the motor, it provides infinitely variable, manual speed control between the pre-set factory upper and lower limits

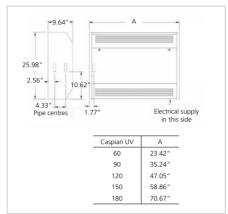
BMS Control: Fans can be controlled using 0-10V output from BMS system



Flow rate (USGPM)

			Average	Water '	Tempera	ture (°F)		
Model	110	120	130	140	150	160	170	180
Caspian 180 High	3.26	3.90	4.85	5.34	5.83	6.32	6.81	7.72
Caspian 180 Med	3.10	3.71	4.54	5.03	5.45	5.94	6.44	7.34
Caspian 180 Low	2.84	3.44	4.28	4.69	5.15	5.64	6.13	6.89
Caspian 150 High	2.57	3.12	3.94	4.39	4.85	5.30	5.75	6.51
Caspian 150 Med	2.33	2.86	3.67	4.09	4.50	4.96	5.38	6.28
Caspian 150 Low	2.08	2.59	3.33	3.75	4.28	4.73	5.19	6.02
Caspian 120 High	1.76	2.33	3.07	3.56	4.01	4.50	5.00	5.98
Caspian 120 Med	1.19	1.61	2.20	2.57	2.91	3.29	3.67	4.43
Caspian 120 Low	0.62	0.89	1.29	1.55	1.85	2.12	2.31	2.76
Caspian 90 High	1.32	1.78	2.35	2.69	3.03	3.37	3.63	4.16
Caspian 90 Med	1.00	1.32	1.74	2.01	2.27	2.54	2.73	3.18
Caspian 90 Low	0.66	0.87	1.14	1.32	1.48	1.67	1.82	2.12
Caspian 60 High	0.59	0.83	1.17	1.36	1.59	1.82	2.01	2.46
Caspian 60 Med	0.47	0.66	0.91	1.06	1.21	1.40	1.55	1.85
Caspian 60 Low	0.36	0.47	0.64	0.76	0.87	0.98	1.10	1.32





Heat output

	Air Volume		Aver	age Wate	r Tempera	ture (BTU/	Maximum Power	Sound Level	Water Capacity				
Model	(CFM)	110	120	130	140	150	160	170	180	Consumption (W)	(dBA)	(US Gallon)	
Caspian 180 High	829	29344	35145	43675	48111	52547	56983	61419	69608		59		
Caspian 180 Med	557	27980	33439	40946	45381	49135	53571	58006	66196	400	49	0.84	
Caspian 180 Low	286	25591	31050	38557	42311	46405	50841	55277	62101		38		
Caspian 150 High	671	23203	28150	35486	39581	43675	47770	51865	58689		59		
Caspian 150 Med	460	20985	25762	33098	36851	40604	44699	48452	56642	300	48	0.68	
Caspian 150 Low	249	18767	23373	30027	33780	38557	42652	46746	54253		36		
Caspian 120 High	513	15866	20985	27638	32074	36169	40604	45040	53912		58		
Caspian 120 Med	363	10748	14502	19790	23203	26273	29686	33098	39922	200	47	0.55	
Caspian 120 Low	212	5630	8019	11601	13990	16719	19108	20814	24909		35		
Caspian 90 High	356	11942	16037	21155	24226	27297	30368	32757	37534		53		
Caspian 90 Med	265	9042	11942	15696	18084	20473	22861	24567	28662	200	44	0.4	
Caspian 90 Low	175	5971	7848	10236	11942	13307	15013	16378	19108		34		
Caspian 60 High	224	5289	7507	10544	12284	14331	16378	18084	22179		50		
Caspian 60 Med	171	4265	5971	8189	9554	10919	12625	13990	16719	100	42	0.24	
Caspian 60 Low	118	3242	4265	5801	6824	7848	8872	9895	11942		33		

Output testing based on EN442 using average water temperature, 65°F entering air temperature, 18°F temperature drop

HE Pedestal Radiation

A new range of freestanding convector pedestal heaters, HEP, HEP2, and HEPTube in a variety of shapes, lengths and finishes

Applications Reception areas Rest rooms Changing rooms Conservatories Showrooms Display areas







Features

- Perfect for beneath large windows, Smith's freestanding pedestal heaters help to minimise the problem of downward cold airflow commonly associated with glazed façades
- Fitting into the smallest of spaces, Smith's range of freestanding pedestal heaters provide a stylish solution without the need for wall hung heaters
- Comes in standard lengths from 2 to 8 feet
- Without fan for indoor environments
- Perfect for where sub-floor trench heating is not possible
- Heat source: boiler or heat pump

Outer casing 18swg. Polyester powder coated in:









Dove grey Dark grey Any color finish is available.

Blue

Installation

Supply and return connections 3/4" copper. Designed for system pressures up to 100 PSI. Suitable for two pipe central heating systems only.

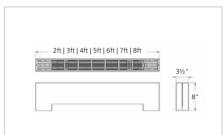
Customised requirements

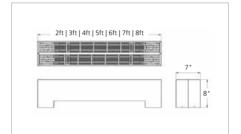
Price and availability will be confirmed at the time of order.

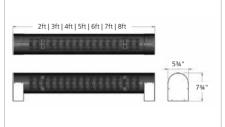












HEP Rectangular design

HEP2Larger rectangular design

HEPTube Tubular design

Heat output

		Average Water Temperature (BTU/hr @ AWT in °F)													
Length (ft)		90	100	110	120	130	140	150	160	170	180	190	200	210	
HEP		1													
2	2USGPM	134	220	305	410	515	646	777	909	1042	1185	1328	1471	1614	
3	2USGPM	219	359	499	670	842	1056	1271	1487	1704	1938	2172	2406	2640	
4	2USGPM	304	499	693	931	1169	1467	1765	2065	2366	2691	3016	3341	3666	
5	2USGPM	389	638	887	1191	1496	1877	2259	2643	3028	3444	3860	4276	4692	
6	2USGPM	474	778	1081	1452	1823	2288	2753	3221	3690	4197	4704	5211	5718	
7	2USGPM	559	917	1275	1712	2150	2698	3247	3799	4352	4950	5548	6146	6744	
8	2USGPM	644	1057	1469	1973	2477	3109	3741	4377	5014	5703	6392	7081	7770	
HEP2															
2	2USGPM	238	395	543	736	909	1133	1371	1577	1838	2058	2340	2576	2878	
3	2USGPM	389	646	888	1204	1487	1853	2242	2579	3006	3366	3827	4213	4707	
4	2USGPM	540	897	1233	1672	2065	2573	3113	3581	4174	4674	5314	5850	6536	
5	2USGPM	691	1148	1578	2140	2643	3293	3984	4583	5342	5982	6801	7487	8365	
6	2USGPM	842	1399	1923	2608	3221	4013	4855	5585	6510	7290	8288	9124	10194	
7	2USGPM	993	1650	2268	3076	3799	4733	5726	6587	7678	8598	9775	10761	12023	
8	2USGPM	1144	1901	2613	3544	4377	5453	6597	7589	8846	9906	11262	12398	13852	
HEPTube															
2	2USGPM	133	195	265	356	438	543	655	747	868	972	1099	1209	1344	
3	2USGPM	218	319	434	583	717	889	1072	1223	1421	1591	1799	1979	2200	
4	2USGPM	303	443	603	810	996	1235	1489	1699	1974	2210	2499	2749	3056	
5	2USGPM	388	567	772	1037	1275	1581	1906	2175	2527	2829	3199	3519	3912	
6	2USGPM	473	691	941	1264	1554	1927	2323	2651	3080	3448	3899	4289	4768	
7	2USGPM	558	815	1110	1491	1833	2273	2740	3127	3633	4067	4599	5059	5624	
8	2USGPM	643	939	1279	1718	2112	2619	3157	3603	4186	4686	5299	5829	6480	



HE2 Heating Edge

HE2 Heating Edge high capacity hybrid element is a perimeter heating (baseboard) product that consists of a unique, patented "coil block" and mounting system

Applications
Corridors
Reception areas
Offices
Greenhouses
Housing authorities
Affordable housing
Apartments
Residential applications



The concept behind the product is to deliver very high BTU/hr capacities (output) using minimal footage compared to conventional baseboard. It's also designed with a mounting system that does away with all brackets and hangers, making for much easier installations.

Features

- High capacity superior low temperature performance range
- Attractive perforated cover design
- Easy to install, rust resistant and easy to clean
- Simple two piece mounting system no brackets or hangers
- Available in a variety of lengths from 2 ft. up to 8 ft.
- New enhanced scrub board fin design for maximum airflow
- Two pipe supply
- · Accessories available



Low temperature applications

Where Heating Edge HE2 really shines is in low temperature applications. Geothermal heat pumps, solar thermal and PVT collectors and condensing boilers are all great ways to save energy and reduce fossil fuel usage. All achieve their highest efficiencies when delivering low temperature water. The challenge faced when it comes to heating effectively with traditional baseboard is that supply water temperatures need to be at least 140°F in order to deliver enough BTU's to sufficiently heat a space at design temperature. Not so with Heating Edge. Due to HE2's unique two pipe design, it's able to deliver comparable BTU/hr using 100°F supply water - all in an attractive package.

Finish

Materials of construction include all aluminum "patented" fins at 47.3 per LF, mechanically bonded to two 3/4" (075) type L copper tubes ("Coil Block") covered by a 20 gauge perforated, painted cover all mounted to a backplate.

Installation**

HE2's unique design allows performance outputs exceeding those of traditional single pipe baseboard designs. When installed with a parallel supply connection it is recommended that a minimum flow rate of 1.5 gpm be maintained to maximize efficiency and performance.

Hot water performance ratings

	Flow Rate	PD in ft				Δ	verage W	ater Temp	erature (B	TU/hr/ft @	AWT in °	°F)			
	GPM	of H ₂ 0	90	100	110	120	130	140	150	160	170	180	190	200	210
Two supplies	1.5**	0.0044	130	205	290	385	460	546	637	718	813	911	1009	1113	1215
parallel	4	0.0481	134	224*	314*	412*	516*	626*	741*	862*	976*	1115*	1249*	1386*	1526
Top supply	1.5	0.0088	101	165*	226*	289*	356*	426*	498*	572*	647*	725*	805*	885*	970
bottom return	4	0.0962	142	201*	271*	341*	415*	492*	569*	648*	728*	811*	894*	979*	1064
Bottom supply	1.5	0.0088	99	162	221	283	349	418	488	561	634	710	788	867	957
top return	4	0.0962	135	195	259	305	380	464	552	634	710	793	874	959	1039
Bottom supply	1.5	0.0044	75	127	169	208	260	311	362	408	470	524	576	629	685
no return	4	0.0481	85	140	203	265	334	410	472	536	599	662	723	788	850



All ratings include a 15% heating effect factor. EAT=65°F. Pressure drop in feet of H2O per LF. * Where marked (*) Heating Edge (HE2) output is based on performance tests witnessed by BSRIA. The test data can be verified on the BSRIA website (report 55944/2). This includes calibration information. The catalogue data above is presented in accordance with the American IBR laboratory testing protocol for baseboard heating. This allows a 15% heating effect factor to be applied to the test values.

HE3 Silent Fin Heating Edge

Ideal for both residential and commercial applications, Silent Fin is designed to provide maximum heat output at lower temperatures Applications
Corridors
Reception areas
Offices
Greenhouses
Housing authorities
Affordable housing
Apartments
Residential applications





Silent Fin Heating Edge baseboard from Smith's Environmental is the perfect complement to today's high efficiency heating equipment. Silent Fin incorporates an efficient design with attractive, robust construction. The coil block is made up of a single 3/4" copper tube encased in aluminum fins featuring exclusive embossed channels designed to promote turbulent air flow thereby maximizing their heat transfer capabilities. Incorporating a Tabbed 5-Point Space Design to ensure continued performance, the aluminum fins help to create "Best-in-Class" performance outputs at both high and low temperatures.

The attractive cover features a perforated grille providing maximum free space thereby permitting maximum convective flow of heated air. This ingenious design also enhances safety by reducing the likelihood of human contact with the heated coil block.

Features

- Superior low temperature performance
- Quiet delivery of heat
- Attractive design
- Perfect for use with solar thermal, geothermal or condensing boilers
- Single pipe design suitable for residential or commercial applications
- Accessories available

Finish

The coil block is made up of a single 3/4" copper tube encased in aluminum fins.

Installation

Designed for ease of installation, the coil block includes pre-installed "glide clips" which have the effect of reducing the noises usually associated with baseboard heaters. The clips also include a molded cradle designed to accommodate return piping in areas where this is required. With an attractive durable finish, the cover is easily removed for cleaning and redecorating. Because the back plate, pre-drilled 16" on center for convenience, is not part of the finished look, it can be installed before decorative phase of construction is complete.

Hot water performance ratings

	Entering Water Temperature (BTU/hr/ft @ EWT in °F)												
	90	100	110	120	130	140	150	160	170	180	190	200	210
1USGPM	117*	189	261*	342	423*	500	576*	686	795*	888	980*	1080	1179*
2USGPM	141*	201	262*	362	463*	560	657*	750	843*	928	1012*	1110	1208*
4USGPM	143*	220	296*	382	468*	566	665*	791	917*	1020	1123*	1230	1337*



* Where marked (*) Heating Edge HE3 Silent Fin® output is based on performance tests undertaken by BSRIA. The test data can be verified on the BSRIA website (report 58930/1). This includes calibration information. The catalog data above is presented in accordance with the American IBR protocol for baseboard heating. This allows a 15% heating effect factor to be applied to the test values.

General Information and Contact Details

Happy to help

Smith's Environmental Products Ltd is one of the leading manufacturers of heating products in the US. We are committed to achieving the highest standards and our faith is supported by a free five year parts warranty guarantee with every product. Our customer service is second to none and we are happy to offer any help and guidance that you might need.

Information and advice

A product brochure containing full technical specifications is available to download from our website or in hard copy from our office. Also available on our website are individual product data sheets, installation & user guides.

Alternatively contact our office 8:00am to 6:00pm Monday to Friday.

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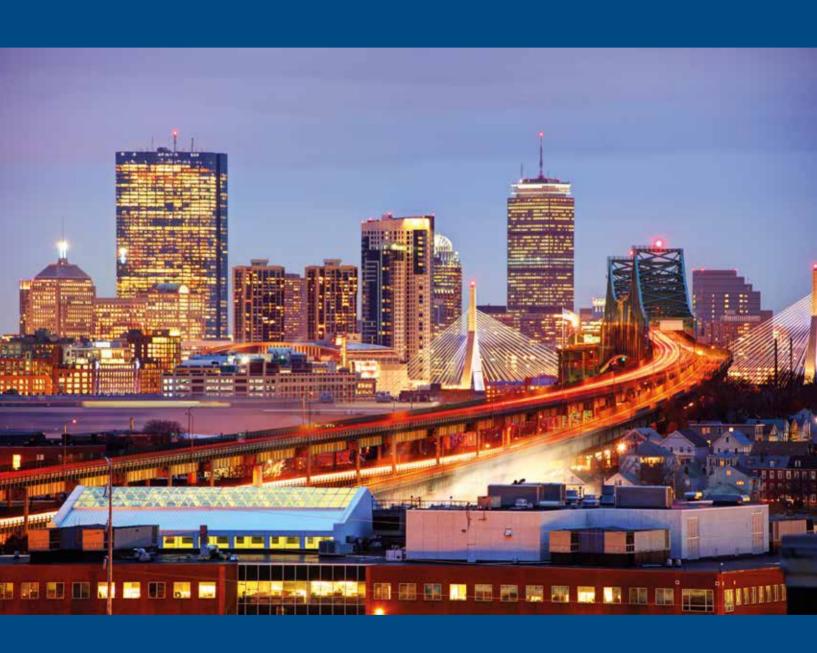
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