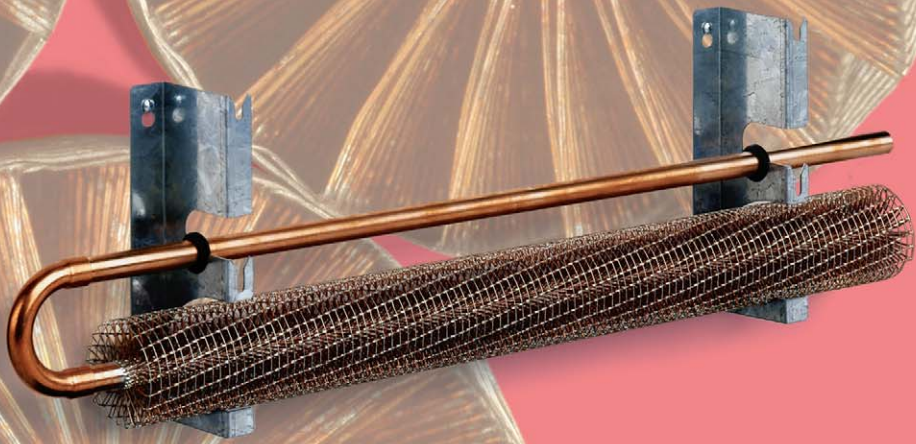
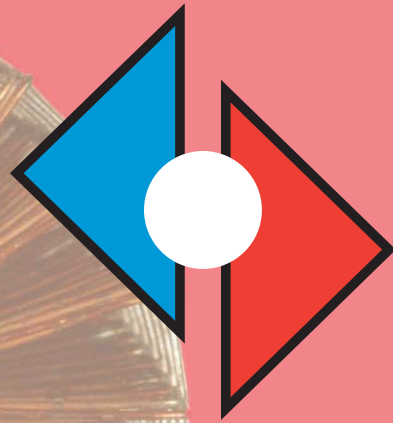
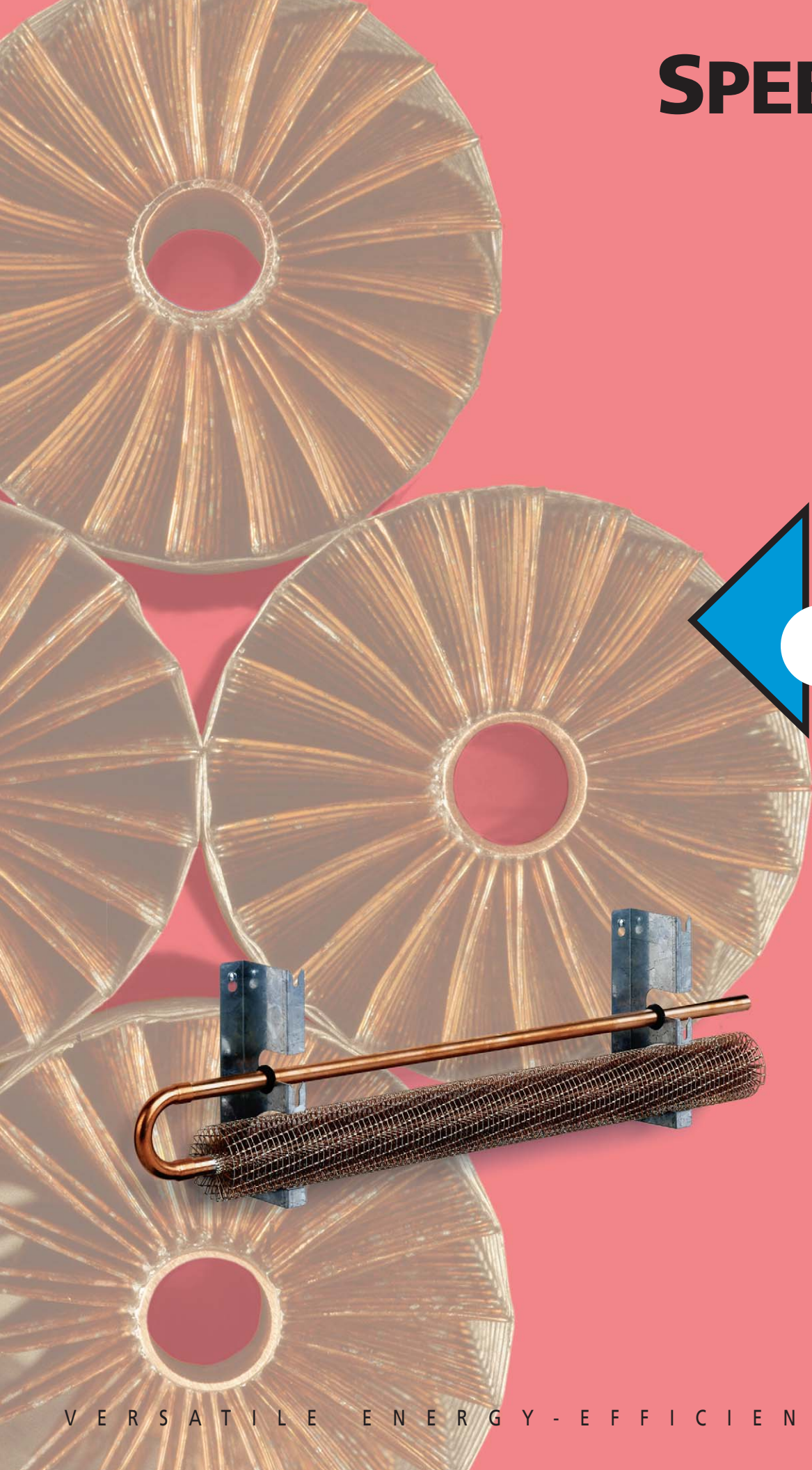


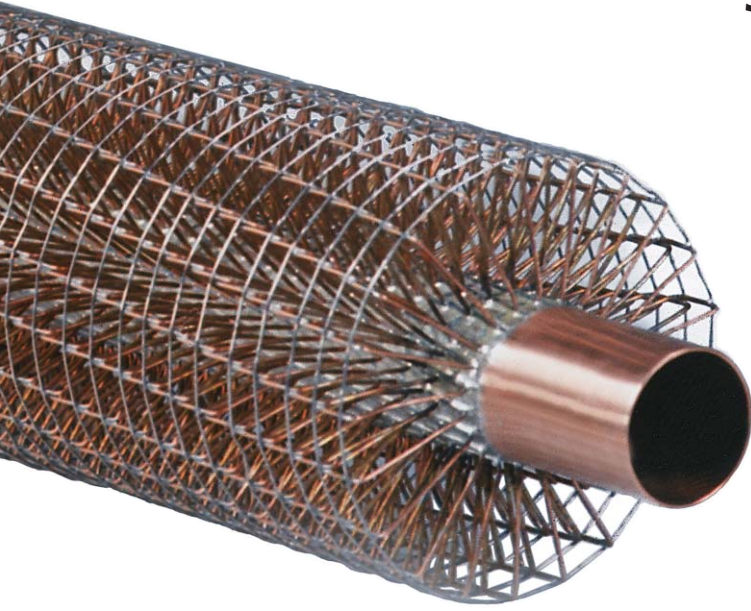
SPEEDHEAT®

C O N V E C T I O N E L E M E N T



V E R S A T I L E E N E R G Y - E F F I C I E N T H E A T I N G

“Slow heat” baseboard problems?



Oftentimes a residential or commercial building does not require continuous heating throughout the building. Some rooms aren't in constant use and, therefore, only require heating occasionally. When the need for an unused room arises, heat is required much quicker than a conventional baseboard is capable of delivering.

There is a solution!

A versatile, fast-acting and economical heat source is possible!

Finally — heating that satisfies all needs. Never before could a heating system as flexible as this one be incorporated into any interior. The elements are uniquely made and of high-quality materials, and at the same time, their simplicity ensures energy efficiency at a competitive price.



The name:

SPEEDHEAT

The principal difference

Conventional baseboard systems — copper tube expanded into aluminum fins — have a built-in disadvantage. Since copper and aluminum have different rates of expansion and contraction, the fins eventually loosen, resulting in loss of efficiency and often in annoying noises.

The heart of the Speedheat System is the patented Spirotube® heating element. Available in 1/2" and 3/4" cores, the Spirotube consists of copper needles or fins soldered directly to the copper inner core, surrounded by a 2 1/2" diameter cage. This unique Speedheat design delivers efficiency and output far superior to conventional systems; and the smooth, even expansion and contraction of the tube and cage assures longer life and quieter operation.

The Spirotube elements are available by the foot in standard length increments ranging from 2 through 8 feet, and customized lengths of up to 20 feet.

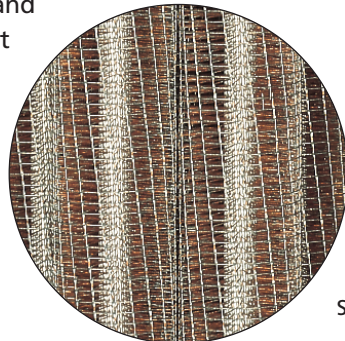
ADVANTAGES TO THE INSTALLER AND END USER

- Can be installed wherever conventional baseboard systems are appropriate.
- Low water content results in rapid heating.
- Steady, even heating with minimal temperature difference between floor and ceiling.
- Suitable for use with any type of boiler — high or low temperature systems.
- Easily kept clean and dust-free.
- Ideal in combination with radiant floor systems.
- Lightweight for quick and easy fitting.
- The smooth, even contraction of the tube and cage assures longer life and quieter operation than traditional baseboard heating systems.
- Suitable for potable water systems.
- Safer for children. The front panel does not get hot.

Speedheat's unique Spirotube design provides markedly faster heat delivery. This is particularly important for residential or commercial spaces that don't require continuous heat — classrooms, auditoriums, conference rooms, sports centers, spare bedrooms, guest bathrooms — anywhere energy conservation is required.

Existing hydronic heating systems can be updated to operate more efficiently using Speedheat's patented technology. When used as replacement, the Speedheat unit maximizes operation of standard baseboard systems, and is ideal for rehab and retrofit applications.

Finally, our wall brackets allow the attachment of a virtually limitless choice of customized front panels: wood, plastic, metal, frosted glass, and more. And, since the panel never gets as hot as conventional baseboard covers, they can be painted, wallpapered or stenciled to match or complement any decor.



The patented Spirotube, heart of the Speedheat System.

Install the Speedheat System for optimum performance

The Spirotube mounts on brackets (please refer to the tables below for part numbers and number of brackets required per foot) capable of supporting the front panel* you choose to install. In addition to providing exciting options of textures and colors, the front panel regulates circulation of the heated air. For maximum heating capacity, install the front panel so that the bottom of the panel is at least four inches from the floor and a minimum of three inches higher than the top of the wall brackets. To hide the tap and piping, select a front panel that is longer than the heating element.

Spirotube Element Length (in feet)	Support Brackets required to hold Element & Front Cover
2	2
3	2
4	2
5	3
6	3
7	3
8	4

Front Panel Height	Support Bracket Part Number	Support Bracket Size
8" to 14"	HST208BR	8"
15" to 20"	HST212BR	12"

* The front panel is not available through Spirotherm.

Technical Specification

The heat output performance of the Speedheat is rated at a flow rate of 1 GPM. These rates are indicated in BTU per hour per linear foot of finned length with the standard 15% allowance for heating effect according to the I=B=R rating code for baseboard radiation. The entering air temperature is 65°F.

Heat Output of Single 1/2" M* Element with Water Flow of 1 GPM (1.3ft/s)						
Front Panel Height	Average Water Temperature in °F					
	120°	140°	160°	180°	200°	220°
8"	288	431	587	752	926	1108
10"	308	461	627	804	990	1185
12"	326	487	662	849	1046	1252
14"	341	510	694	889	1095	1311
16"	355	531	722	926	1140	1365
18"	368	550	748	959	1181	1414
20"	379	568	772	990	1219	1459

Heat Output of Single 3/4" M* Element with Water Flow of 1 GPM (0.6ft/s)						
Front Panel Height	Average Water Temperature in °F					
	120°	140°	160°	180°	200°	220°
8"	277	414	563	722	889	1064
10"	296	443	602	772	951	1138
12"	312	468	636	815	1004	1202
14"	327	490	666	854	1052	1258
16"	341	510	693	889	1095	1310
18"	353	528	718	921	1134	1357
20"	364	545	741	950	1170	1401

*Type M copper tube element suitable for use with potable water.

SPIRO THERM
A Spiro Enterprises Company

Spirotherm, Inc.
25 N. Brandon Drive
Glendale Heights, IL 60139

Tel.: 630-307-2662
Fax: 630-307-3773

Website: www.spirotherm.com
E-mail: info@spirotherm.com