

**Commercial & Residential**

# **Baseboard Heating Systems**

**JANUARY 2019**



**1-800-2-HAYDON**

**HAYDONCORP.COM**

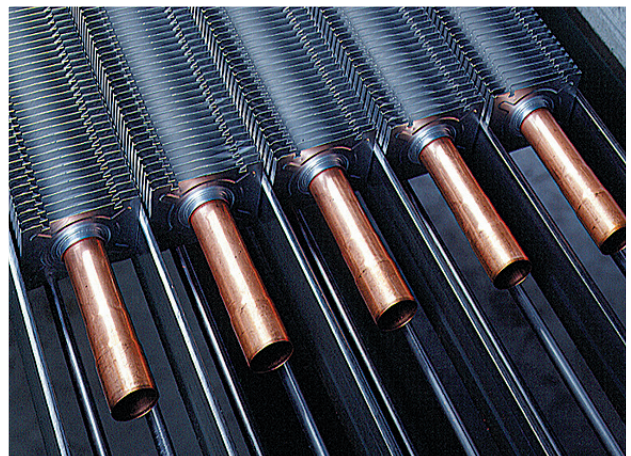
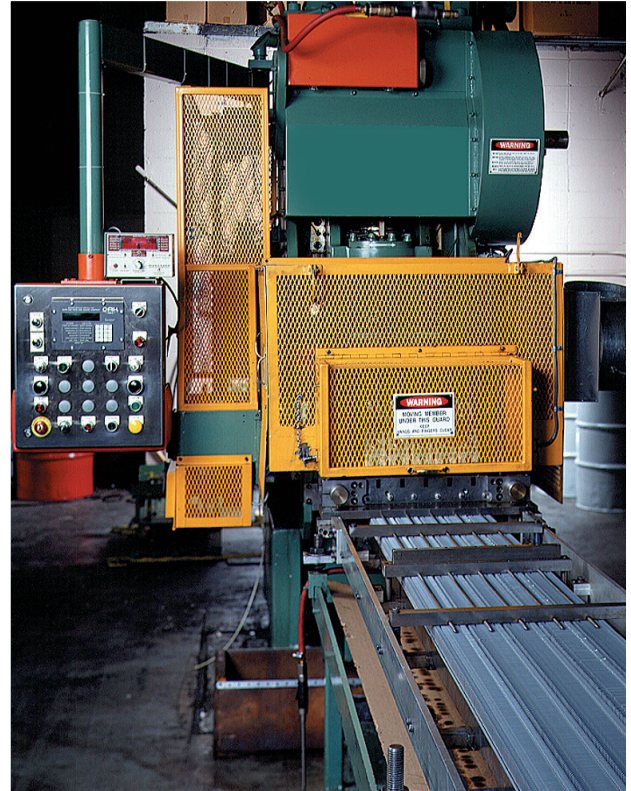
# Commercial and Residential Hydronic Baseboard Heating Systems

Day-in, day out reliability, the kind that allows homeowners the freedom to forget about their heating system and simply enjoy “all the comforts of home” - without messy maintenance, irritating temperature fluctuations, aggravating noises and unwarranted costs - these are the reasons to choose Haydon hydronic heating systems.

Haydon's Hydronic Baseboard Systems with Silent Glide™ is meticulously manufactured and assembled to exacting specifications using specially designed custom built equipment. The Haydon hot water baseboard product line offers BTU ratings to suit all conditions - from residential, hot water-fed, to large demand commercial steam-fed systems.

All Haydon baseboard heating systems are manufactured to provide many years of trouble-free, safe, silent, and economical heat distribution. Haydon's Hot Water Baseboard is found wherever ease of installation and superior heating capability are paramount.

- Heavy gauge steel construction
- Noise-eliminating Slide Rail System
- Efficient and versatile for multiple zones
- Various output ranges for all applications
- Excellent for new installations or retrofit applications
- Packaged in bundles for convenient ordering, transport and installation



## ABOUT HAYDON

Haydon Corporation is one of the largest manufacturers of strut metal framing systems in the U.S. We are big enough to meet and exceed our customers' demands, but small enough to care about their experiences with us. We're an American business with American pride and we help create American jobs by manufacturing our strut, rooftop and baseboard products right here in the U.S. We listen to our customers and think outside the box to better serve them. At Haydon, there's no such thing as a comfort zone and we continually challenge each other to offer the ideal solution. We bend for our customers where other companies break. Our team is flexible and willing to create custom products and take on challenges to help our customers meet their deadlines.

For more information, please visit us at [www.haydoncorp.com](http://www.haydoncorp.com)

# Enduring Comfort and Livability...Hallmarks of Haydon Systems

Precision manufactured components are incorporated into Haydon's advanced design hydronic heating units - Heat Base 750, HI Output 958, Supr-heat 1000 and Slope-Top 1200 - providing the ultimate performance in...

**COMFORT.** Hot water baseboard systems generate naturally convected heat that rises gently, warming walls and blocking drafts, providing uniform heat throughout a home's entire perimeter. By contrast, hot air ducted heat operates with surges of hot air that are warmer at the ceiling, cooler at floor level. Blown air stirs up dust, aggravates allergies, creates drafts.

**EFFICIENCY AND VERSATILITY.** Rooms with different temperature requirements are no problem with easily zoned, energy saving, thermostatically controlled hot water heat. Conversely, hot air ducted heat is difficult to zone, more expensive to install, easily unbalanced and needs adjusting every spring and fall when air conditioning is part of the system.

**CONVENIENCE AND ECONOMY.** A hot water system can supply unlimited hot water for showers, bath, laundry and kitchen, with higher boiler operating efficiency, virtual elimination of separate water heater costs... and it's maintenance free.

**FLEXIBILITY.** Hot water heating gives you more options to expand the system - for swimming pools, hot tubs and whirlpools, driveway/walkway snow and ice melting - all are ways to increase the enjoyment and value of a home.

**SILENCE.** Hot water baseboards operate smoothly, silently. With hot air, you constantly hear and feel "fan on, heat on, draft, fan off, heat off."

**ENCLOSURE TOP-BACK PANEL:** Fabricated from one piece of sturdy pre-painted cold rolled steel designed for efficient air flow, with uniform surfaces and no dust-collecting cutouts.

**FINGER TIP POSITIONAL DAMPER:** Special hinging mechanism allows for finger-tip control... closes shut to keep out dust or opens wide for maximum heat output. Damper deflects air into room, for better heating distribution.

**HIGH STRENGTH BRACKETS:** Die-formed from one piece of heavy gauge steel - designed to strengthen the enclosure and protect the heating element against damage - special notches hold the heating element to allow for quiet expansion... won't break or bend, cannot pop out of place. A turn of the wrist removes the twist slide brackets, for easy location during installation.

**RETURN BRACKET OPTION:** Wire hangers allow for easy installation of return pipe.

**FRONT PANEL:** Roll-formed from heavy gauge steel which resists damage during and after installation - pre-coated with a special rust-inhibiting white baked-on enamel paint. Looks new year after year. No heavier front available.

**NOISELESS ELEMENT:** Aluminum fins are mechanically fastened to copper tubing to insure maximum heat transfer. Elements have an expanded end for easy sweat connections without coupling.

**"SILENT GLIDE" EXPANSION TRACKS:** Two unique polyethylene silent glide tracks eliminate expansion and contraction noises.



# HEAT-BASE™ 750

## Residential

Slim and unobtrusive, the low profile Heat-Base 750's BTU output is ideal for efficient, economical residential installations.\* The cover is a standard 22 gauge, with an optional heavy duty 18-gauge front cover (Model 758).

\*Available with 1/2" Copper

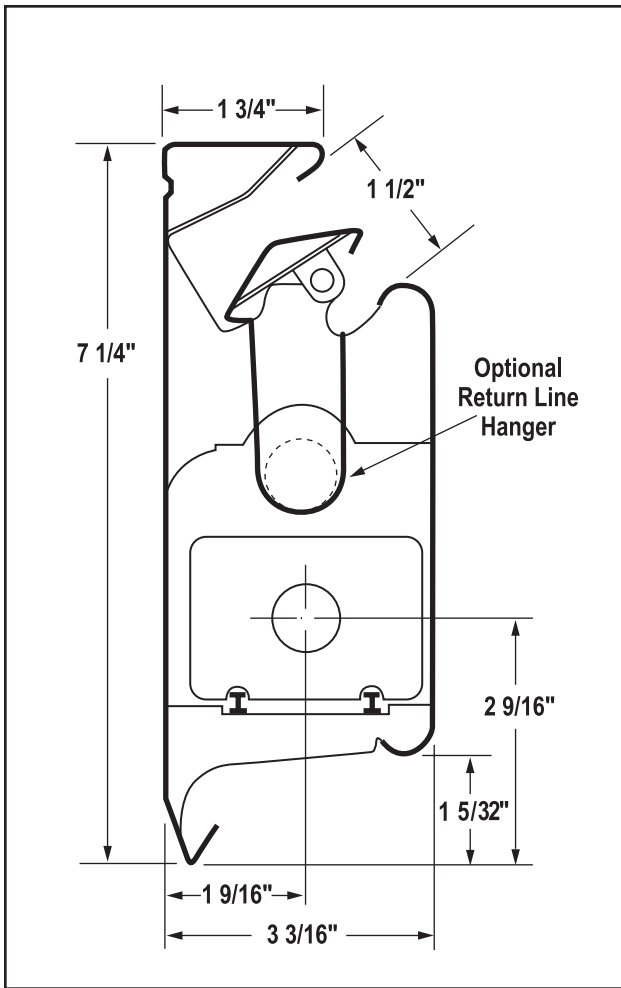


TABLE 1 — HEATING CAPACITIES, BTU PER HR PER LIN. FT. 65° ENTERING AIR TEMPERATURE

Model	Nom. Tube Size	Fin Dim.		Thick-ness	Fin/Ft	Water Rate GPM	HOT WATER RATINGS AVERAGE WATER TEMPERATURE °F															
		H	W				90°	100°	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°	220°	230°	240°
HEAT-BASE 750-1B	3/4" Copper	2 5/8"	2 1/2"	0.008	54.5	4	70*	110*	170*	230*	280*	340*	410	480	550	610	690	760	820	900	970	1,040
		Natural Finish				1	70*	110*	160*	210*	270*	330*	390	450	520	580	650	720	780	850	920	980

\* Ratings at 140°F and lower temperatures determined by multiplying 150°F rating by the applicable reduction factor.

All the above ratings are based on active length, which is 3" less than total length, and includes a 15% addition for heating effect.

Ratings: Heating capacities are listed in Table 1 for two flow rates: 1 GPM and 4 GPM. The use of ratings at 4 GPM is limited to installations where the water flow rate through the baseboard unit is equal to or greater than 4 GPM. Where the water flow rate through the baseboard is not known, the ratings at the standard flow rate of 1 GPM must be used.

TABLE 2 — FACTORS FOR RATINGS AT FLOW OTHER THAN STANDARD AND PRESSURE DROP VALUES

Rate of Flow GPM	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	6.0
Factor	1.000	1.016	1.028	1.038	1.045	1.051	1.057	1.062	1.067	1.074
Pressure Drop 3/4" Tube Mill inches per ft.	47	96	157	230	320	420	525	650	775	1,060

Note: If the calculated water flow rate through a baseboard unit in a completely designed hot water heating system is greater than the standard flow rate (1 GPM), the rating of that unit may be increased by multiplying the standard rating at 1 GPM by the factor shown for the calculated flow rate.

# PROTECTOR 758P

## Moisture Resistant Residential

The Protector™ 758P is constructed with heavy gauge G-90 zinc clad galvanized steel and pre-coated with a durable, impact and moisture resistant white polyester finish on all surfaces. Combined with our rugged 18 gauge front cover, the Protector 758P is the ideal choice for high moisture and heavy traffic areas such as bathrooms, laundry rooms and entrance foyers, as well as homes in coastal and lake communities.

The Protector 758P is engineered, designed and manufactured with the same quality and specifications as our popular 750 Heat-Base™ series to provide years of trouble free, safe, silent and economical heat distribution. It comes packaged\* complete with two end caps and our standard 3/4" heat element.

\*Stocked in 3', 4', 5' and 6' lengths.

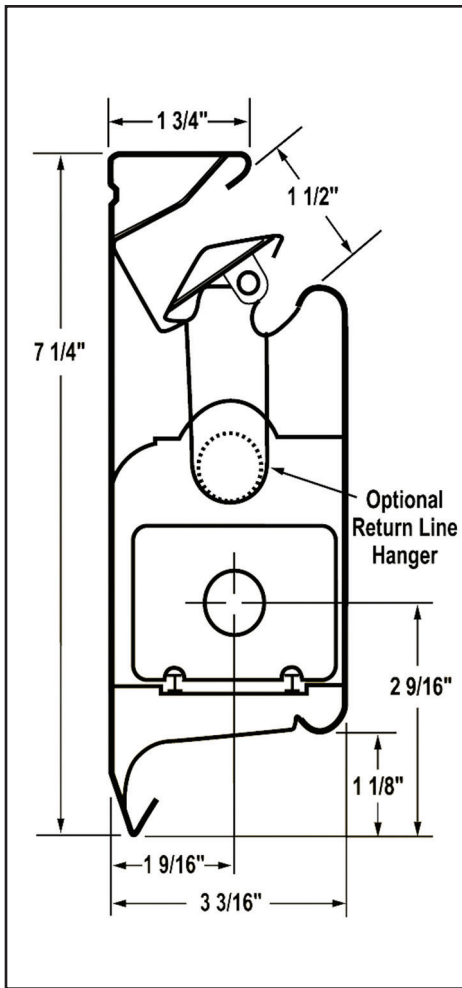


TABLE 1 — HEATING CAPACITIES, BTU PER HR PER LIN. FT. 65° ENTERING AIR TEMPERATURE

Model	Nom. Tube Size	Fin Dim.		Thick-ness	Fin/Ft.	Water Rate GPM	HOT WATER RATINGS															
		H	W				AVERAGE WATER TEMPERATURE °F															
Protector 758P	3/4" Copper	2 1/8"	2 1/2"	0.008	54.5	4	90°	100°	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°	220°	230°	240°
		Natural Finish	1			70*	110*	160*	210*	270*	330*	390	450	520	580	650	720	780	850	920	980	

\* Ratings at 140°F and lower temperatures determined by multiplying 150°F rating by the applicable reduction factor.

All the above ratings are based on active length, which is 3" less than total length, and includes a 15% addition for heating effect.

Ratings: Heating capacities are listed in Table 1 for two flow rates: 1 GPM and 4 GPM. The use of ratings at 4 GPM is limited to installations where the water flow rate through the baseboard unit is equal to or greater than 4 GPM. Where the water flow rate through the baseboard is not known, the ratings at the standard flow rate of 1 GPM must be used.

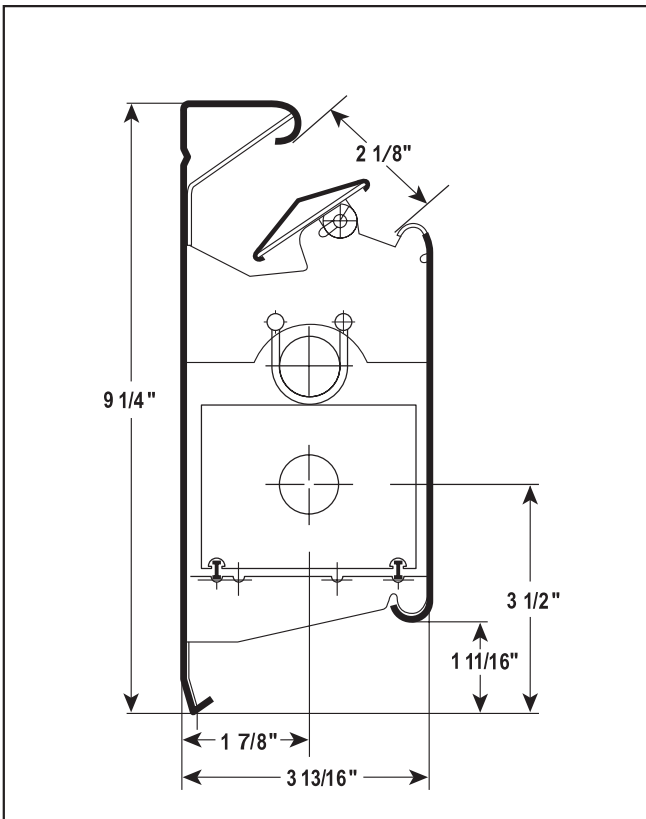
TABLE 2 — FACTORS FOR RATINGS AT FLOW OTHER THAN STANDARD AND PRESSURE DROP VALUES

Rate of Flow GPM	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	6.0
Factor	1.000	1.016	1.028	1.038	1.045	1.051	1.057	1.062	1.067	1.074
Pressure Drop 3/4" Tube Mill inches per ft.	47	96	157	230	320	420	525	650	775	1060

Note: If the calculated water flow rate through a baseboard unit in a completely designed hot water heating system is greater than the standard flow rate (1 GPM), the rating of that unit may be increased by multiplying the standard rating at 1 GPM by the factor shown for the calculated flow rate.

# HI-OUTPUT 958

Residential / Light Commercial for Hot Water or Steam



Superior design combined with industry leading efficiency makes Haydon's Hi-Output 958 the best choice for both the specifying engineer and the heating contractor. Its durable construction with standard 18 gauge front cover makes the 958 ideal for demanding residential and commercial applications, and its reliability and quiet operation are a plus in every setting. Choose from 5 elements. Each uses our standard 18 gauge cover.

Element Model	Alum./Steel Fin Dimensions		Thickness	Fin Spacing Fins/Ft.
	H	W		
Hi-Output 958-2	2½"	3¼"	0.015	55
Hi-Output 958-3	2¾"	3¼"	0.020	54
Hi-Output 958-4	3"	3¼"	0.026	48
Hi-Output 958-5	3"	3¼"	0.020	54

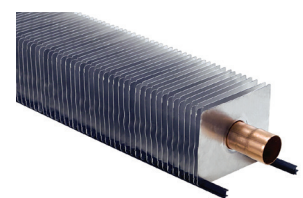
Note: All element models are natural finish.

TABLE 2 — FACTORS FOR RATINGS AT FLOW OTHER THAN STANDARD AND PRESSURE DROP VALUES

Rate of Flow GPM	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	6.0
Factor	1.000	1.016	1.028	1.038	1.045	1.051	1.057	1.062	1.067	1.074
Pressure Drop ¾" Tube Mill inches per ft.	47	96	157	230	320	420	525	650	775	1060

Note: If the calculated water flow rate through a baseboard unit in a completely designed hot water heating system is greater than the standard flow rate (1 GPM), the rating of that unit may be increased by multiplying the standard rating at 1 GPM by the factor shown for the calculated flow rate.

HI-OUTPUT 958-2 (Standard Element)



## HI-OUTPUT 958-2 (STANDARD ELEMENT)

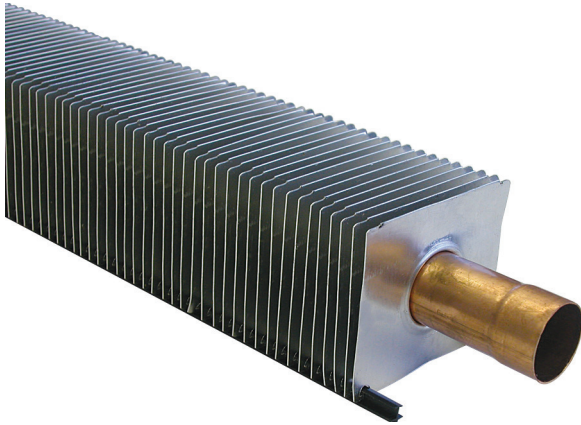
TABLE 3 — HEATING CAPACITIES, BTU PER HR. PER LIN. FT. 65° ENTERING AIR TEMPERATURE

Nom. Tube Size	Thick-ness	Alim Fin Dimensions		Fin/Ft.	Water Rate GPM	Hot Water Average Water Temperature °F															
		H	W			90°	100°	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°	220°	230°	240°
¾" Copper	0.015	2-½"	3-¾"	54.5	4	100*	170*	240*	320*	410*	500*	590	700	790	900	1,000	1,110	1,200	1,310	1,420	1,510
					1	95*	160*	230*	310*	390*	470*	560	660	750	850	950	1,050	1,140	1,240	1,340	1,430

\* Ratings at 140°F and lower temperatures determined by multiplying 150°F rating by the applicable reduction factor.

All the above ratings are based on active length, which is 3" less than total length, and includes a 15% addition for heating effect.

Ratings: Heating capacities are listed in Table 3 for two flow rates: 1 GPM and 4 GPM. The use of ratings at 4 GPM is limited to installations where the water flow rate through the baseboard unit is equal to or greater than 4 GPM. Where the water flow rate through the baseboard is not known, the ratings at the standard flow rate of 1 GPM must be used.



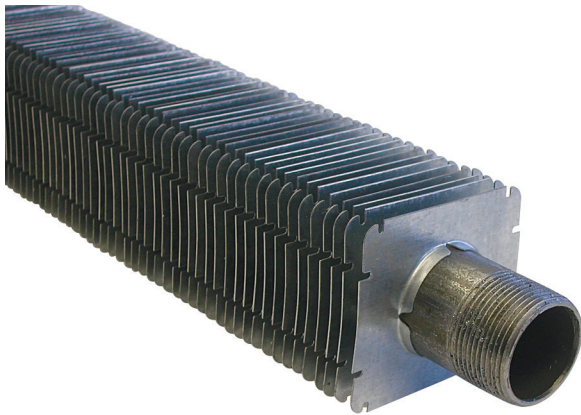
### HI-OUTPUT 958-3

TABLE 4 — HEATING CAPACITIES, BTU PER HR. PER LIN. FT.  
65° ENTERING AIR TEMPERATURE

Nom. Tube Size	Water Rate GPM	Hot Water Average Water Temperature °F									
		150°	160°	170°	180°	190°	200°	210°	220°	230°	240°
1"	4	580	700	800	910	1,010	1,120	1,230	1,340	1,450	1,550
CPR	1	550	660	760	860	960	1,060	1,160	1,270	1,370	1,470

All the above ratings are based on active length, which is 3" less than total length, and includes a 15% addition for heating effect.

Ratings: Heating capacities are listed in Table 4 for two flow rates: 1 GPM and 4 GPM. The use of ratings at 4 GPM is limited to installations where the water flow rate through the baseboard unit is equal to or greater than 4 GPM. Where the water flow rate through the baseboard is not known, the ratings at the standard flow rate of 1 GPM must be used.



### HI-OUTPUT 958-4

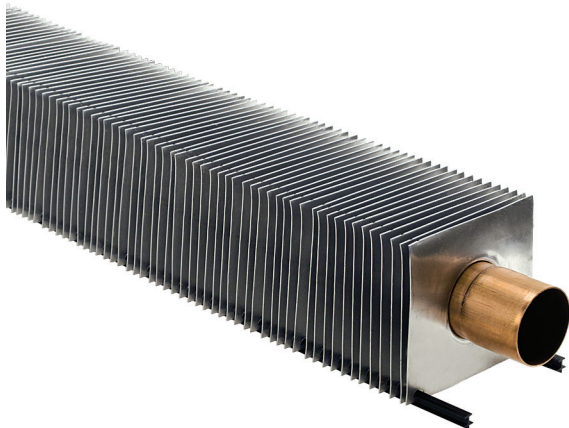
TABLE 5 — HEATING CAPACITIES, BTU PER HR. PER LIN. FT.  
65° ENTERING AIR TEMPERATURE

Nom. Tube Size	Water Rate GPM	Hot Water Average Water Temperature °F									
		150°	160°	170°	180°	190°	200°	210°	220°	230°	240°
1 1/4"	4	440	520	590	670	730	800	880	950	1,030	1,040
IPS Steel	1	420	490	560	630	690	760	830	900	970	1,100

Painted Steel, Steam BTUH 890, Sq. Ft./Hr. 3.71

All the above ratings are based on active length, which is 3" less than total length, and includes a 15% addition for heating effect.

Ratings: Heating capacities are listed in Table 3 for two flow rates: 1 GPM and 4 GPM. The use of ratings at 4 GPM is limited to installations where the water flow rate through the baseboard unit is equal to or greater than 4 GPM. Where the water flow rate through the baseboard is not known, the ratings at the standard flow rate of 1 GPM must be used.



### HI-OUTPUT 958-5

TABLE 6 — HEATING CAPACITIES, BTU PER HR. PER LIN. FT.  
65° ENTERING AIR TEMPERATURE

Nom. Tube Size	Water Rate GPM	Hot Water Average Water Temperature °F									
		150°	160°	170°	180°	190°	200°	210°	220°	230°	240°
1 1/4"	4	560	660	760	870	960	1,070	1,170	1,270	1,370	1,480
CPR	1	530	620	720	820	910	1,010	1,110	1,200	1,300	1,400

Alum. Natural Finish, Steam BTUH 1240, Sq. Ft./Hr. 5.17

All the above ratings are based on active length, which is 3" less than total length, and includes a 15% addition for heating effect.

Ratings: Heating capacities are listed in Table 5 for two flow rates: 1 GPM and 4 GPM. The use of ratings at 4 GPM is limited to installations where the water flow rate through the baseboard unit is equal to or greater than 4 GPM. Where the water flow rate through the baseboard is not known, the ratings at the standard flow rate of 1 GPM must be used.

# SUPR-HEAT™ 1000

## Heavy Residential / Light Commercial for Hot Water or Steam

The perfect alternative to bulky, commercial enclosures for demanding heat requirements. Especially suited for problem areas of high heat loss. 18 Gauge standard front covers.

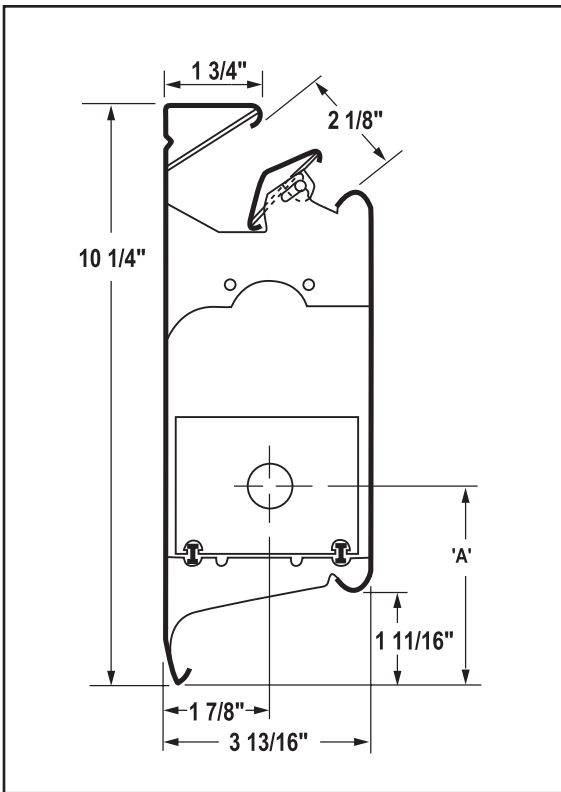


TABLE 1 — HEATING CAPACITIES, BTU PER HR PER LIN. FT. 65° ENTERING AIR TEMPERATURE

SUPR-HEAT MODEL	Nom. Tube Size	Fin Dimensions		Thick-ness	Fin/Ft.	Dim. 'A'	Water Rate GPM	Hot Water Ratings									
		H	W					Average Water Temperature °F									
								150°	160°	170°	180°	190°	200°	210°	220°	230°	240°
1000-1A	¾" CPR	2½"	3¼"	0.015	55	3⅝"	4	630	740	850	950	1,050	1,150	1,260	1,360	1,470	1,570
							1	600	700	800	900	990	1,090	1,190	1,290	1,390	1,490
Alum. Natural Finish																	
1000-2A	1" CPR	2¾"	3¼"	0.020	54	3⅝"	4	610	720	840	950	1,060	1,170	1,280	1,400	1,500	1,620
							1	580	680	790	900	1,000	1,110	1,210	1,320	1,420	1,530
Alum. Natural Finish																	
1000-S125A	1¼" IPS	3"	3¼"	0.026	48	3⅞"	4	430	500	570	640	710	790	860	930	1,000	1,070
							1	450	530	600	680	750	840	910	980	1,060	1,130
Painted Steel, Steam BTU. 1130 Sq. Ft./Hr. 4.7																	
1000-3A	1¼" CPR	3"	3¼"	0.020	54	3⅞"	4	580	690	790	900	1,000	1,110	1,220	1,310	1,420	1,520
							1	550	650	750	850	950	1,050	1,150	1,240	1,340	1,440
Alum. Natural Finish, Steam BTU. 1300 Sq. Ft./Hr. 5.4																	

All the above ratings are based on active length, which is 3" less than total length, and includes a 15% addition for heating effect.

Ratings: Heating capacities are listed in Table 1 for two flow rates: 1 GPM and 4 GPM. The use of ratings at 4 GPM is limited to installations where the water flow rate through the baseboard unit is equal to or greater than 4 GPM. Where the water flow rate through the baseboard is not known, the ratings at the standard flow rate of 1 GPM must be used.

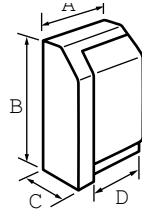
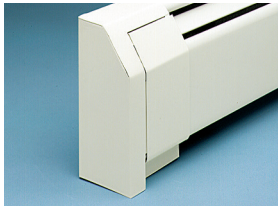
Table 2 — FACTORS FOR RATINGS AT FLOW OTHER THAN STANDARD AND PRESSURE DROP VALUES

Rate of Flow GPM	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	6.0
<b>Factor</b>	<b>1.000</b>	<b>1.016</b>	<b>1.028</b>	<b>1.038</b>	<b>1.045</b>	<b>1.051</b>	<b>1.057</b>	<b>1.062</b>	<b>1.067</b>	<b>1.074</b>
Pressure Drop ¾" Tube Mill in. per ft.	47	96	157	230	320	420	525	650	775	1,060
Pressure Drop 1¼" IPS Steel Pipe Mill in. per ft.	3	7	12	17	24	32	41	51	62	88
Pressure Drop 1¼" Tube Mill in. per ft.	6	12	20	28	39	50	63	77	93	124

Note: If the calculated water flow rate through a baseboard unit in a completely designed hot water heating system is greater than the standard flow rate (1 GPM), the rating of that unit may be increased by multiplying the standard rating at 1 GPM by the factor shown for the calculated flow rate.

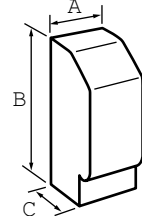
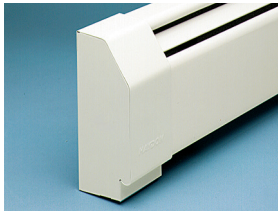


# SNAP-ON ACCESSORIES



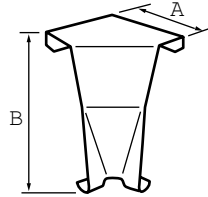
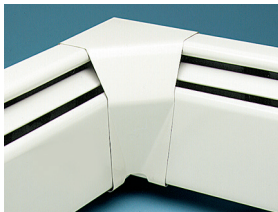
## VALVE ENCLOSURE/HINGED END CAP

Dimensions	A	B	C	D
Heat-Base 750/758	4"	7 <sup>3</sup> / <sub>16</sub> "	3 <sup>1</sup> / <sub>8</sub> "	2 <sup>7</sup> / <sub>16</sub> "
Hi-Output 958	4"	9 <sup>1</sup> / <sub>4</sub> "	3 <sup>3</sup> / <sub>8</sub> "	2 <sup>15</sup> / <sub>16</sub> "
Supr-Heat 1000	8"	10"	3 <sup>3</sup> / <sub>8</sub> "	7 <sup>1</sup> / <sub>4</sub> "



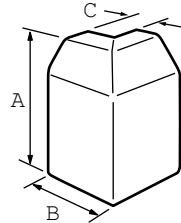
## END CAP

Dimensions	A	B	C
Heat-Base 750/758	3" or 6"	7 <sup>3</sup> / <sub>16</sub> "	3 <sup>1</sup> / <sub>8</sub> "
Hi-Output 958	3"	9 <sup>3</sup> / <sub>16</sub> "	3 <sup>3</sup> / <sub>4</sub> "
Supr-Heat 1000	3"	10 <sup>3</sup> / <sub>16</sub> "	3 <sup>3</sup> / <sub>4</sub> "



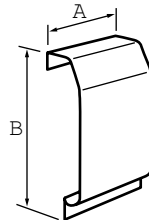
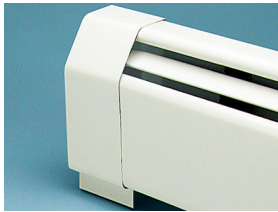
## INSIDE CORNER

Dimensions	A - 90°	A - 135°	B
Heat-Base 750/758	4 <sup>3</sup> / <sub>4</sub> "	3 <sup>7</sup> / <sub>8</sub> "	6 <sup>7</sup> / <sub>16</sub> "
Hi-Output 958	4 <sup>15</sup> / <sub>16</sub> "	3 <sup>7</sup> / <sub>8</sub> "	7 <sup>15</sup> / <sub>16</sub> "
Supr-Heat 1000	4 <sup>7</sup> / <sub>8</sub> "	3 <sup>7</sup> / <sub>8</sub> "	9"



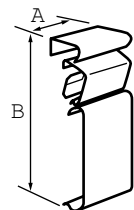
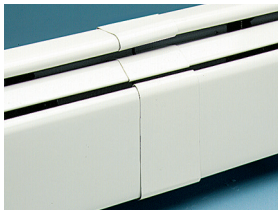
## OUTSIDE CORNER

Dimensions	A	B - 90°	B - 135°	C - 90°	C - 135°
Heat-Base 750/758	6 <sup>7</sup> / <sub>16</sub> "	4 <sup>1</sup> / <sub>2</sub> "	4 <sup>7</sup> / <sub>8</sub> "	2 <sup>1</sup> / <sub>16</sub> "	3 <sup>1</sup> / <sub>4</sub> "
Hi-Output 958	7 <sup>9</sup> / <sub>16</sub> "	5 <sup>5</sup> / <sub>8</sub> "	4 <sup>1</sup> / <sub>16</sub> "	1 <sup>11</sup> / <sub>16</sub> "	3 <sup>1</sup> / <sub>4</sub> "
Supr-Heat 1000	8 <sup>7</sup> / <sub>8</sub> "	5 <sup>15</sup> / <sub>16</sub> "	4 <sup>1</sup> / <sub>16</sub> "	2 <sup>1</sup> / <sub>8</sub> "	3 <sup>3</sup> / <sub>16</sub> "



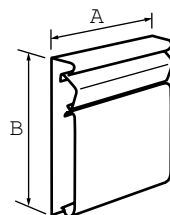
## WALL TRIM

Dimensions	A	B
Heat-Base 750/758	3" or 6"	7 <sup>3</sup> / <sub>16</sub> "
Hi-Output 958	3" or 6"	9 <sup>3</sup> / <sub>8</sub> "
Supr-Heat 1000	3" or 6"	9 <sup>3</sup> / <sub>4</sub> "



## JOINER SET

Dimensions	A	B
Heat-Base 750/758	2"	6 <sup>7</sup> / <sub>16</sub> "
Hi-Output 958	3"	8"
Supr-Heat 1000	3"	9"



## COVER EXTENSION

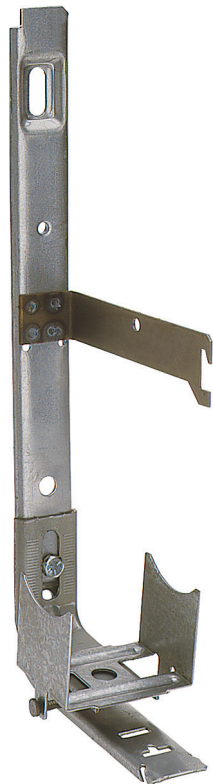
Dimensions	A	B
Heat-Base 750/758	7" or 14"	6 <sup>3</sup> / <sub>4</sub> "
Hi-Output 958	7" or 14"	9 <sup>3</sup> / <sub>8</sub> "
Supr-Heat 1000	7" or 14"	10 <sup>1</sup> / <sub>2</sub> "

# COMMERCIAL BASEBOARD



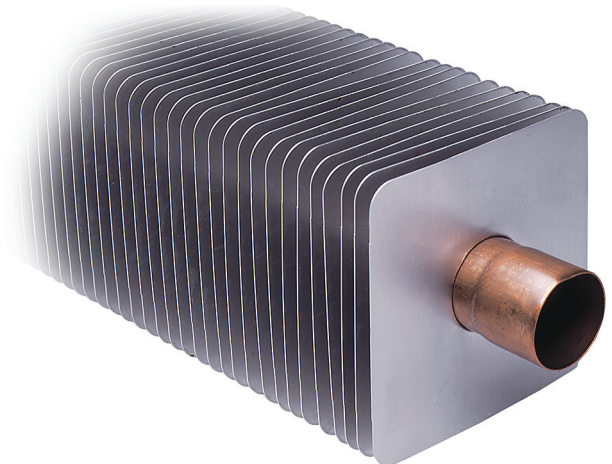
Haydon's 1400 and 2100 slope top commercial cover and fin tube is manufactured with the same top of the line "fit and finish" that our residential baseboard products are known for. Both the 1400 and 2100 are two-piece enclosures for ease of handling, installation and maintenance. The 1400 accommodates a single tier element while the 2100 will accommodate single or double tiers of element. The series is available in lengths of 2, 3, 4, 5, 6, 7 and 8 feet along with a full line of accessories to meet job requirements without time consuming cutting or customization.

The enclosure is packaged with top cover, front cover, wall brackets and element cradles - everything needed for convenient, trouble-free ordering and installation. The slim, sturdy package is stackable for convenient storage, shipment and handling on the job. The simplicity of design and the ready availability from stock make ordering and planning a snap. The high output fin tube element is packaged separately.



## FEATURES:

- 18 gauge cover panel with precoated rust inhibiting, white baked-on enamel paint.
- 14 gauge galvanized, die-formed wall bracket.
- Galvanized, die-formed support bracket, slotted to allow 1" vertical movement for positioning/pitch adjustment.
- Hanger cradle and support pin allow lateral travel to accommodate expansion and eliminate noise.
- Optional knob controlled damper operates with precision lead screw and brass trunnion block for years of trouble free service.



# SLOPE-TOP™ 1200

## Heavy Commercial for Hot Water or Steam

Specially designed for commercial use in heavy traffic areas. Unique one-piece heavy-duty enclosure with polyurethane powder coated finish applied after fabrication. Easy installation – simply secure brackets to wall, run element and snap-on enclosure.

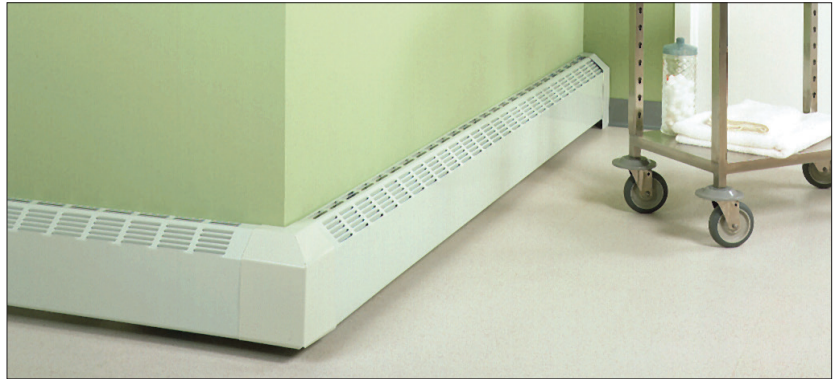
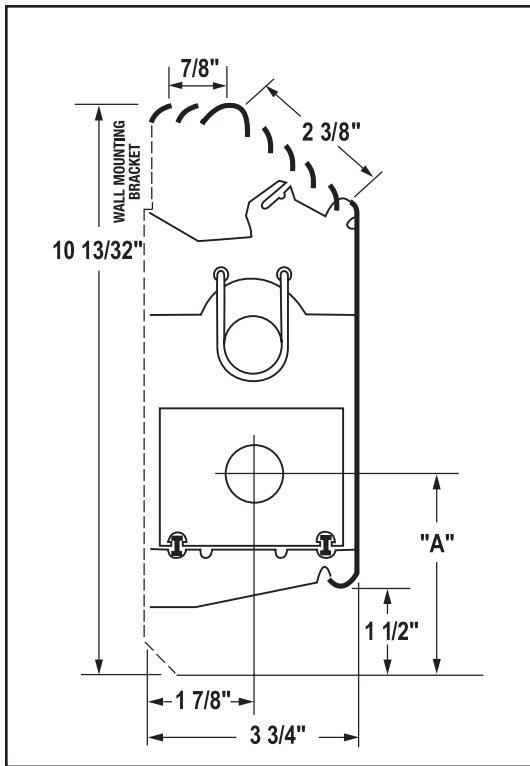


TABLE 1 — HEATING CAPACITIES, BTU PER HR PER LIN. FT. 65° ENTERING AIR TEMPERATURE

Slope-top Model	Nominal Tube Size	Fin Dim.		Thick-ness	Fin/ Ft.	Dim. 'A'	Water Rate GPM	Hot Water Ratings Average Water Temperature °F									
		H	W					150°	160°	170°	180°	190°	200°	210°	220°	230°	240°
ST 1200-1A	¾" CPR	2½"	¾"	0.015	55	3 <sup>11</sup> / <sub>16</sub> "	4	580	680	770	870	960	1,060	1,160	1,260	1,350	1,450
							1	550	640	730	820	910	1,000	1,100	1,190	1,280	1,370
Alum. Natural Finish																	
ST 1200-S125A	1¼" IPS	3"	¾"	0.026	48	3 <sup>13</sup> / <sub>16</sub> "	4	500	580	670	760	850	940	1,030	1,110	1,200	1,290
							1	470	550	630	720	800	890	970	1,050	1,140	1,220
Painted Steel, Steam BTU. 1010 Sq. Ft./Hr. 4.2																	
ST 1200-3A	1¼" CPR	3"	¾"	0.020	54	3 <sup>11</sup> / <sub>16</sub> "	4	560	670	770	880	980	1,090	1,190	1,300	1,410	1,510
							1	530	630	730	830	930	1,030	1,130	1,230	1,330	1,430
Alum. Natural Finish, Steam BTU. 1290 Sq. Ft./Hr. 5.4																	

All the above ratings are based on active length, which is 3" less than total length, and includes a 15% addition for heating effect.

Ratings: Heating capacities are listed in Table 1 for two flow rates: 1 GPM and 4 GPM. The use of ratings at 4 GPM is limited to installations where the water flow rate through the baseboard unit is equal to or greater than 4 GPM. Where the water flow rate through the baseboard is not known, the ratings at the standard flow rate of 1 GPM must be used.

See page 4 for bracket details.

TABLE 2 — FACTORS FOR RATINGS AT FLOW OTHER THAN STANDARD AND PRESSURE DROP VALUES

Rate of Flow GPM	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	6.0
<b>Factor</b>	<b>1.000</b>	<b>1.016</b>	<b>1.028</b>	<b>1.038</b>	<b>1.045</b>	<b>1.051</b>	<b>1.057</b>	<b>1.062</b>	<b>1.067</b>	<b>1.074</b>
Pressure Drop ¾" Tube Mill in. per ft.	47	96	157	230	320	420	525	650	775	1060
Pressure Drop 1¼" IPS Steel Pipe Mill in. per ft.	3	7	12	17	24	32	41	51	62	88
Pressure Drop 1¼" Tube Mill in. per ft.	6	12	20	28	39	50	63	77	93	124

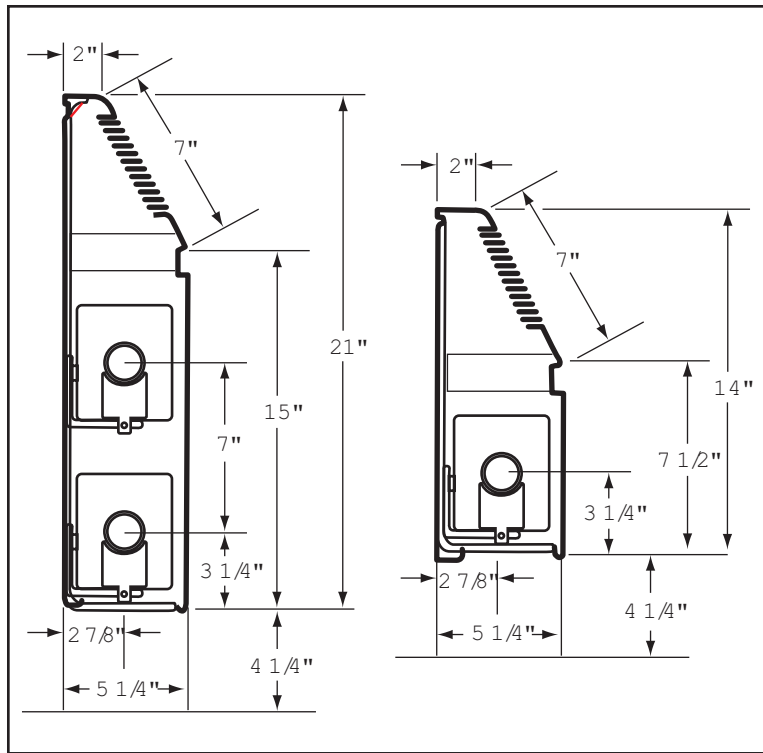
Note:

If the calculated water flow rate through a baseboard unit in a completely designed hot water heating system is greater than the standard flow rate (1 GPM), the rating of that unit may be increased by multiplying the standard rating at 1 GPM by the factor shown for the calculated flow rate.

# HEAVY DUTY 1400/2100

## Heavy Commercial for Hot Water or Steam

Specially designed for commercial use in heavy traffic areas. Two piece 18 gauge heavy duty enclosures are finished in a pre-coated rust inhibiting white baked on enamel paint. Easy installation — simply secure brackets to wall, run element and snap on enclosure.



**2100**

**1400**



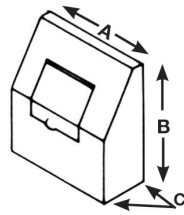
TABLE 1 — HEATING CAPACITIES, BTU PER HOUR PER LINEAR FOOT (65° F ENTERING AIR TEMPERATURE)

Cover Type	Nominal Tube Size & Material	Fin Size & Material	Fins Per Foot	EDR Per Foot	HOT WATER RATINGS BTU/HR/FT (Flow rate 3 ft./sec.)								
					Steam 215° F	220° F 104° C	210° F 99° C	200° F 93° C	190° F 88° C	180° F 82° C	170° F 77° C	160° F 71° C	150° F 66° C
1400	1 1/4" Steel	4 1/4" x 4 1/4" Steel	40	6.2	1,490	1,560	1,420	1,280	1,160	1,030	910	790	670
	1 1/4" Steel	3" x 3 1/4" Steel	51	3.5	850	890	810	730	660	590	520	450	383
	1 1/4" Copper	4 1/4" x 4 1/4" Alum.	40	8.0	1,910	2,000	1,800	1,680	1,500	1,360	1,200	1,012	861
2100	1 1/4" Steel	4 1/4" x 4 1/4" Steel	40	7.0	1,680	1,764	1,596	1,445	1,310	1,159	1,025	980	756
	1 1/4" Steel	3" x 3 1/4" Steel	51	4.0	957	1,005	909	823	746	660	583	507	430
	1 1/4" Copper	4 1/4" x 4 1/4" Alum.	40	8.7	2,100	2,200	2,000	1,800	1,660	1,480	1,310	1,113	945
2100	1 1/4" Steel	4 1/4" x 4 1/4" Steel	40	9.9	2,380	2,499	2,261	2,047	1,856	1,642	1,452	1,261	1,071
Two-tier Element	1 1/4" Steel	3" x 3 1/4" Steel	51	5.6	1,356	1,423	1,288	1,166	1,057	935	527	718	610
	1 1/4" Copper	4 1/4" x 4 1/4" Alum.	40	12.1	2,940	3,080	2,800	2,550	2,330	2,080	1,860	1,558	1,323

Brackets and Hangers provided with each carton.

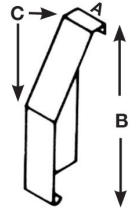
Length	1200		1400		2100	
	Brackets	Hangers	Brackets	Hangers	Brackets	Hangers
2' - 5'	2	2	2	2	2	4
6' - 8'	3	3	3	3	3	6

# SNAP-ON ACCESSORIES



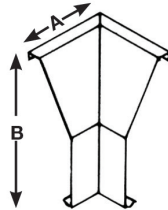
## VALVE ENCLOSURE/HINGED END CAP

Dimensions	A	B	C
Slope-Top 1200	8"	10"	3 <sup>7</sup> / <sub>8</sub> "
Heavy Duty 1400	10"	14"	3 <sup>7</sup> / <sub>8</sub> "
Heavy Duty 2100	10"	21"	3 <sup>7</sup> / <sub>8</sub> "



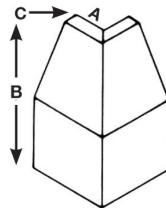
## END CAP

Dimensions	A	B	C
Slope-Top 1200	3"	10 <sup>3</sup> / <sub>16</sub> "	3 <sup>3</sup> / <sub>4</sub> "
Heavy Duty 1400	3"	14"	5 <sup>1</sup> / <sub>4</sub> "
Heavy Duty 2100	3"	21"	5 <sup>1</sup> / <sub>4</sub> "



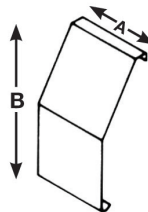
## INSIDE CORNER/90° or 135°

Dimensions	A - 90°	A - 135°	B
Slope-Top 1200	4 <sup>7</sup> / <sub>8</sub> "	3 <sup>7</sup> / <sub>8</sub> "	9"
Heavy Duty 1400	8 <sup>1</sup> / <sub>4</sub> "	8 <sup>1</sup> / <sub>4</sub> "	14"
Heavy Duty 2100	8 <sup>1</sup> / <sub>4</sub> "	8 <sup>1</sup> / <sub>4</sub> "	21"



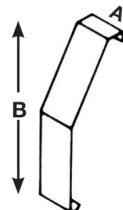
## OUTSIDE CORNER/90° or 135°

Dimensions	A	A - 135°	B - 90°	C - 90°	C - 135°
Slope-Top 1200	5 <sup>1</sup> / <sub>16</sub> "	4 <sup>1</sup> / <sub>16</sub> "	8 <sup>7</sup> / <sub>8</sub> "	2 <sup>1</sup> / <sub>8</sub> "	3 <sup>3</sup> / <sub>16</sub> "
Heavy Duty 1400	5 <sup>1</sup> / <sub>16</sub> "	4 <sup>1</sup> / <sub>16</sub> "	14"	2 <sup>1</sup> / <sub>8</sub> "	3 <sup>3</sup> / <sub>16</sub> "
Heavy Duty 2100	3"	4 <sup>1</sup> / <sub>16</sub> "	21"	2 <sup>1</sup> / <sub>8</sub> "	3 <sup>3</sup> / <sub>16</sub> "



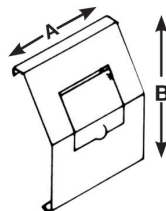
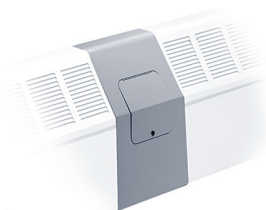
## WALL TRIM

Dimensions	A	B
Slope-Top 1200	3" or 6"	9 <sup>3</sup> / <sub>4</sub> "
Heavy Duty 1400	3"	14"
Heavy Duty 2100	3"	21"



## JOINER SET

Dimensions	A	B
Slope-Top 1200	3"	9 <sup>3</sup> / <sub>4</sub> "
Heavy Duty 1400	3"	14"
Heavy Duty 2100	3"	21"

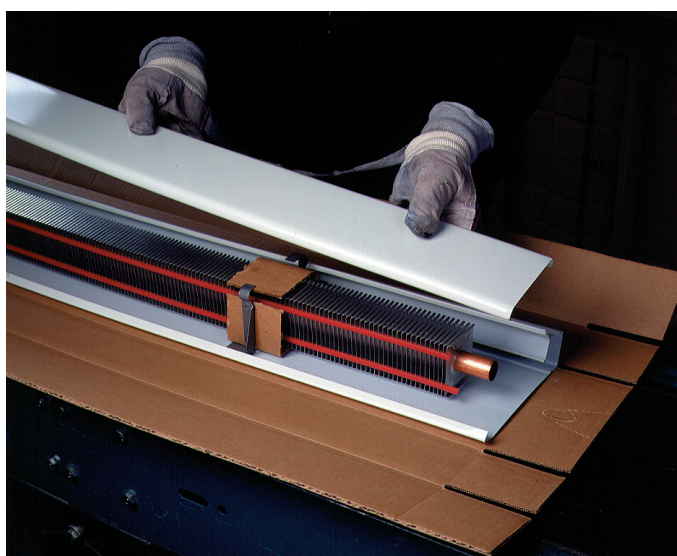


## FILLER SLEEVE

Dimensions	A	B
Slope-Top 1200	N/A	N/A
Heavy Duty 1400	7 <sup>1</sup> / <sub>2</sub> "	14"
Heavy Duty 2100	7 <sup>1</sup> / <sub>2</sub> "	21"

# BASEBOARD PACKAGING

All Haydon hot water baseboard systems are factory pre-assembled in individually sealed corrugated containers with a complete length of styrofoam filler to protect it against any scratching or rubbing. All brackets and dampers are pre-installed in place to prevent any movement during shipping or storage which may cause damage. To protect the fins and eliminate possible handling damage, the elements are also shipped within the steel enclosure. Supplied in 2, 3, 4, 5, 6, 7, 8, and 10 foot lengths. Additional lengths are available upon request.



## Enclosure Only

Catalog #	Length	Brackets	Pcs. Per Carton
750/958/1000	3' - 4'	2	1
750/958/1000	5' - 6' - 7'	3	1
750/958/1000	8' - 10'	4	1

Note: No joiner sets are packed with enclosures only.

## Element Only

Catalog #	Length	Pcs. Per Carton	Tube Size
750	2'	4	¾" - ½"
958/1000		1	¾" - 1" - 1¼"
750	3'	4	¾" - ½"
958/1000		1	¾" - 1" - 1¼"
750	4'	4	¾" - ½"
958/1000		1	¾" - 1" - 1¼"
750	5'	4	¾" - ½"
958/1000		1	¾" - 1" - 1¼"
750	6'	4	¾" - ½"
958/1000		1	¾" - 1" - 1¼"
750	7'	4	¾" - ½"
958/1000		1	¾" - 1" - 1¼"
750	8'	4	¾" - ½"
958/1000		1	¾" - 1" - 1¼"

## Baseboard Complete

Catalog #	Length	Brackets	Joiner Sets
750/958/1000	2'	2	0
750/958/1000	3'	2	0
750/958/1000	4'	2	0
750	5'	3	1
958/1000		3	0
750	6'	3	1
958/1000		3	0
750	7'	3	1
958/1000		3	0
750	8'	4	1
958/1000		4	0
750/958/1000	10'	4	0

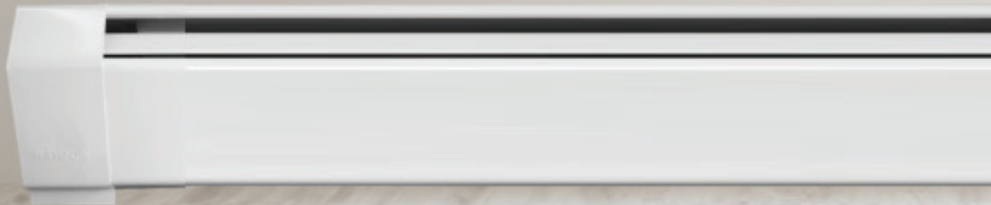
## **WARRANTY**

**HAYDON CORPORATION warrants that for a period of one (1) year from the date of shipment its Thermogenic Products are free of defects in materials and workmanship, provided they are installed and used under normal conditions and service. This warranty shall be solely limited to the replacement or repair at the option of HAYDON CORPORATION of any part or parts which may be returned Freight Prepaid and examined by its engineers and have proven to be defective. HAYDON CORPORATION shall under no circumstances accept any consequential damage or reinstallation labor costs.**

**HAYDON CORPORATION reserves the right to make changes from time to time in its design or materials without obligation of making such changes in previous manufactured items. This warranty shall take precedence over any other warranty express or implied and no further warranty may be made unless duly signed by an officer of HAYDON CORPORATION.**

Wayne, NJ • Grand Prairie, TX • Stockton, CA

1-800-2-HAYDON HAYDONCORP.COM



*Supplied By:*

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