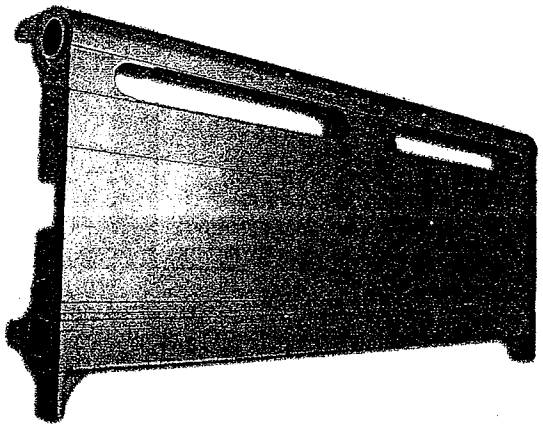
BASERAY® CAST IRON BASEBOARD



- RESIDENTIAL OR COMMERCIAL APPLICATIONS
- CAST IRON
- ASSEMBLIES UP TO AND INCLUDING 6 LINEAR FEET

Burnham cast iron baseboard provides convective and radiant heat in a trim, low-profile design. Because it's made of cast iron it stays warm longer and is nearly indestructable.

BURNHAM HYDRONICS BASERAY®

A Burnham Hydronics Original

Baseray is the original cast iron radiant baseboard designed by Burnham with performance and dependability in mind. Its low profile, sleek design fits well with any décor, and it can be painted with a high-grade enamel paint to coordinate with your room's color scheme.

Comfortable, Even Heat

Although its low profile may be misleading, Baseray cast iron baseboard supplies more than five times as much radiant heat as thin metal fabricated baseboard. Its design allows free airflow over the integral cast iron fins allowing the baseboard to emit more radiant heat into the living space.

Also, because of Baseray's design, heat is disbursed in both horizontal and vertical directions. Installed on exterior walls, Baseray radiators radiate uniform heat throughout the room, resulting in a less than two-degree temperature variation from floor to ceiling and eliminating drafts.

Once installed, Baseray is filled with heated water from top to bottom. The cast iron construction of the Baseray baseboard cools slowly, providing evenly balanced comfort long after the boiler has shut down. Metal fabricated baseboards hold only a small volume of water, which results in rapid temperature reduction.

baseboard radiant graphic

Durable Construction and Quiet Operation

Since Burnham's Baseray baseboard heat distributors are constructed in one piece of cast iron, you can rest easy knowing that they will provide uniform heat year after year. They are corrosion resistant and can withstand everyday abuse. They won't dent, bend, or come apart, unlike the multi-metal fabricated baseboard units.

Quiet operation is essential to a homeowner with a hydronic heating system. Expansion noises—that annoying pinging sound during the warm-up and cool down cycle—and air trapped in the system are the two most common homeowner complaints.

Baseray baseboard's one-piece cast iron construction virtually eliminates expansion noises created during the heating and cooling cycles. Different metal expansion rates create the noises prevalent with other hydronic heat distributors.

EXPLANATION OF MODEL NUMBER STRUCTURE - BASERAY ONLY

Sample Model Number: **9A3C**

The model number above designates a 3 foot long section of Baseray (9A3). This particular sample is a complete assembly (C)

Model Number Structure

Assembly Size: Select from **9A1** (Right End Only) or **9A1.5** through **9A6**

Build Type: **C** = Complete (SIzes 2 thru 6 only) **I** = Intermediate (Sizes 2,4, and 6 only)
L = Left End (Sizes 1.5, 2, 3.5, 4, 5.5 and 6 only)
R = Right End (Sizes 1,2,3,4 and 5 only)

9 A 3 C

BASERAY® ACCESSORIES

	PART NUMBER	QUANTITY PER CARTON	SHIP WT. PER CARTON (lb.)
Left Hand Valve Enclosures	6074119	10	15
Right Hand Valve Enclosures	6074120	10	15
Inverted Corner Plate - 4-5/8"	80741603	10	10
Inverted Corner Plate - 10-5/8"	80741604	10	30
Projecting Corner Plate	7074102	10	12
Center Supports*			
Top Type	6074116	144	11
Bottom Type	6074118	100	3
Aluminum Foil - 100 ft. per Roll			15
No. 9A - 13" high	80741608	8	40
Air Seal Tape - 60 yds. By 1"	80741609	1	1
Baseboard Extension, per 6' length	6074115	8	8
Hangers for Baseboard Extension	7074103	50	13
Splice Plates	7074105	10	3
Left Hand End Caps	6074113	10	4
Right Hand End Caps	6074114	10	4
Left Hand Adjustable End Cap	6074111	5	6
Right Hand Adjustable End Cap	6074112	5	6
Adjustable Filler Piece - 12"	7074109	10	5
Baseray Assembly Tool	80741618	1	14
Compression Corner Connectors			
No. 90-S for 4-5/8" Corner Plate	80741619	10	6
No. 90-XL for 10-5/8" Corner Plate	80741620	10	10

*Top and bottom supports are not furnished unless ordered. Approximately one of each is required for every ten lineal feet of Baseray.

BASERAY® FITTINGS—WHEN ORDERED SEPARATELY

	PART NUMBER
3/4" Push Nipple	8064101
3/4" X 1/8" Hex Bushing (for vent)	806600519
3/4" Plug	806603535
3/4" X 1/2" Bushing	806600523
Baseray Tie Bolt w/Nuts	
3/8 - 16 X 1-1/4" Bolt	80860100
3/8 - 16 Heavy Hex Nut	80860400

SPECIFICATIONS

Burnham Hydronics

RECOMMENDED SYSTEM PIPING

ONE-PIPE STEAM
- Up to 28 sq. ft. . . . . .1 inch
- Up to 62 sq. ft. . . . . 1 1/4 inches

HOT WATER - Two-Pipe Forced Circulation
- Up to 100 sq. ft. . . . . .1/2 inch
- 101 sq. ft. and larger . . . . . .3/4 inch

HOT WATER - TWO-PIPE GRAVITY SYSTEM

First floor - Up to 20 sq. ft. . . . . .1/2 IN
- 21 to 50 sq.ft. . . . . 3/4 IN
- 51 to 100 sq. ft. . . . . 1 IN
- 101 to 175 sq. ft. . . . . .1 1/4 IN

Second floor - Up to 30 sq. ft. . . . . 1/2 IN
- 31 to 70 sq. ft. . . . . .3/4 IN
- 71 to 120 sq. ft. . . . . 1 IN
- 121 to 250 sq. ft. . . . . .1 1/4 IN

Third floor - Up to 40 sq. ft. . . . . 1/2 IN
- 41 to 100 sq. ft. . . . . .3/4 IN
- 101 to 175 sq. ft. . . . . 1 IN
- 175 to 300 sq. ft. . . . . .1 3/4 IN

NOTES:

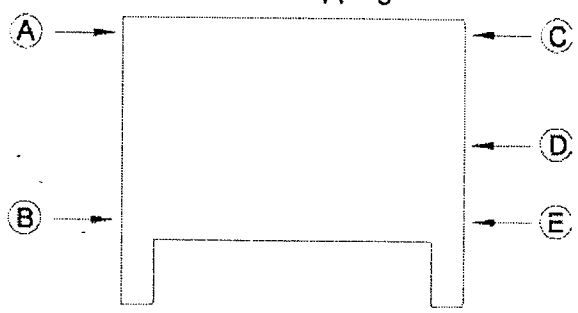
All sizes based on steel pipe. Vapor tappings, top and bottom opposite ends; supply 3/4 inch, return 1/2 inch.

For tappings on one-pipe hot water systems see I=B=R Installation Guide.

The last connection taken off the main should be run to a first floor radiator.

Radiators in which mains terminate should have one size larger valves.

Radiator Tappings



System Flow

	A	B	C	D	E
One Pipe Steam	*	supply	+vent	vent	*
Two Pipe Steam	supply	+supply	*	*	return
Hot Water	*	supply	vent	*	return

* Plug

\+ Alternate

Heat Emission Chart (Based on room temp. of 70°F)

Ave. water temp. in radiators, °F	150	160	170	180	190	200	210	215
Heat emission, BTU/Hr. per sq. ft.	110	130	150	170	190	210	230	240

Dimensions

A	B	C	D	E	F	G
1"	7/8"	2-1/2"	9-7/8"	1-3/4"	1-3/4"	3/4"

1. Fins
2. Tie Bolt
3. Push Nipple