

CERTIFIED

PRODUCT DIRECTORY



Boilers
Baseboard Radiation
Finned Tube (Commercial) Radiation
Indirect-fired Water Heaters

Updated: April 2009

Introduction

The Gas Appliance Manufacturers Association (GAMA) in 2008 merged with the Air-Conditioning and Refrigeration Institute to become the Air-Conditioning, Heating, and Refrigeration Institute (AHRI). The newly merged association is now home to all of the industry's equipment certification programs: I=B=R, GAMA Efficiency Rating Certified and ARI Performance Certified.

AHRI tests boilers, baseboards, commercial finned tube radiation and indirect-fired water heaters and provides authorization for the use of I=B=R ratings for those products. AHRI is also engaged in other projects and activities to develop reliable technical data for the heating and the building industries, and to assure correct calculation, design, and installations of hydronic systems, providing maximum comfort at minimum cost to the consumer.

Some of the projects include:

1. Development of Codes and Standards
2. Research and technical investigations into hydronic theory and practice
3. Publication of technical reports and installation guides reflecting the latest research and practical experience
4. Dissemination of data of value to manufacturers and to the heating industry. The Hydronics Institute maintains its office and laboratory in its own building in Berkeley Heights, New Jersey

About the Directory

This directory contains the I=B=R Ratings for cast-iron, steel, aluminum and copper boilers, baseboard and finned tube radiation, indirect-fired water heaters, effective as of the date of this publication. These ratings have been determined under the provisions of the "I=B=R Rating Procedure for Heating Boilers," "BTS-2000 Testing Standard for Commercial Space Heating Boilers", "I=B=R Testing and Rating Standard for Baseboard Radiation," "I=B=R Testing and Rating Standard for Finned Tube Radiation," "GAMA Testing Standard for Performance of Indirect-Fired Water Heaters," and "GAMA I=B=R Rating Procedure for Indirect-Fired Waters Heaters," copies of which are available for purchase. For boilers under 300,000 Btu input, the I=B=R Procedural Guide includes the requirements of the U.S. Department of Energy.

Any boilers claiming to have I=B=R ratings, but not listed herein do not have I=B=R approval as of the date of this publication. Visit the AHRI Directory of Certified Product Performance at www.ahridirectory.org to check for updates. The designation "SBI Ratings" has been discontinued. The designation "I=B=R Ratings" is now used for all boilers, regardless of construction material.

Boiler model numbers may have prefix and/or suffix letters to indicate variations in the assembly, controls, trim, etc. Refer to the manufacturer's catalog for an explanation of the letters used. Manufacturer's catalogs are reviewed by AHRI to assure physical conformance with the product as it was when tested. Boiler ratings shown are for elevations up to 2,000 feet; for elevations above 2,000 feet, consult the manufacturer.

Any manufacturer who wishes to submit his boiler for testing and approval under the testing standard may do so, upon payment of applicable fees, regardless of whether they are a member of AHRI. Data shown in this book is only for those manufacturers who elected to participate in AHRI's rating and licensing program. An alphabetical index is provided at the back of this book of all boiler, baseboard, finned tube, and indirect-fired water heater manufacturers who have current I=B=R ratings for their products.

Every effort has been made to assure the accuracy of the data contained in this book and in the other publications issued by AHRI. However, neither AHRI nor those responsible for the preparation of the association's publications make any representation or guarantee, or assume or accept any responsibility or liability with respect thereto.

Use of the I=B=R Emblem

The I=B=R emblem is the property of AHRI, registered in its name at the United States Patent and Trademark Office, and the Registrar of Trademarks in Canada.

All boilers listed in this book must bear the I=B=R emblem on the manufacturer's nameplate affixed to the boiler. The emblem is to be used only on the specific models whose ratings have been approved by AHRI. The use of the emblem in

manufacturers' literature is limited to those pages or those publications which are entirely devoted to products qualified to display the emblem.

No one has permission to state that his product has been tested under the I=B=R Certification Program, or to publish I=B=R Ratings, or to use the I=B=R Emblem in any manner, unless

- (a) The manufacturer has executed a license with AHRI, and
- (b) AHRI has tested the series according to the I=B=R Procedural Guide for Heating Boilers, or GAMA's I=B=R Procedural Guide for Indirect-Fired Water Heaters and
- (c) AHRI has advised the manufacturer in writing of the exact rating applicable to the specific models.

All I=B=R Rated boilers must be manufactured in accordance with the latest edition of Section IV of the ASME Boiler and Pressure Vessel Code covering Heating Boilers.

Why Hydronics

Besides the reliability of equipment ratings, and the well-established reliability of hydronic accessories, there are many good reasons why hydronic systems have long been recognized as the standard method for providing indoor comfort.

Hydronic heating, whether steam or hot water, provides positive, controlled circulation of the heating medium. Systems are basically self-balancing, and in larger, more complicated heating systems, balancing is positively controlled by familiar valves and thermostats.

The life of hydronic equipment is measured in decades; some existing boilers are more than fifty years old. In addition to the high efficiency of boilers (some over 90%), losses through the distribution system are extremely low on modern installations.

Temperature control is close to ideal with hydronics. Any well-designed system can provide excellent comfort, without drafts or sharp swings in temperature.

The flexibility of hydronic installations permits a variety of piping arrangements, simple or sophisticated controls, and large choice of room distribution units for all comfort applications.

Historical Timeline

- 1915: National Boiler and Radiation Manufacturers Association is formed by producers of cast iron boilers and radiators.
- 1929: The name is changed to the Institute of Boiler and Radiator Manufacturers (I=B=R).
- 1940: Start of 30-year research agreement with the University of Illinois, including 39 research programs which resulted in many improvements of systems and equipment
- 1944: Institute broadened to include manufacturers of non-ferrous radiation, and accessories for systems and equipment.
- 1956: I=B=R Test Laboratory built at Urbana, Illinois and manned by engineers of the University of Illinois.
- 1963: Manufacturers of Steel heating boilers join to become the Steel Boiler Division.
- 1970: The Hydronics Institute is formed from the above predecessors.
- 1983: Burner and Burner Components Division is formed as an operating group within The Institute.
- 1995: The Hydronics Institute became a Division of GAMA.
- 2008: GAMA and ARI merged to become the Air-Conditioning, Heating, and Refrigeration Institute.

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TESTING AND RATING PROCEDURES FOR BASEBOARD

RATINGS LISTED. This book contains all I=B=R Baseboard Ratings approved and in effect as of cover date on units currently in production. Any I=B=R Baseboard Rating not listed, whether previously published by HI or the manufacturer, has been withdrawn and is no longer in effect.

METHOD OF APPROVAL. All baseboards listed have been tested at the I=B=R Laboratory and ratings approved based upon these tests. An I=B=R Baseboard Rating is the Output, determined under the strict limitations and conditions set forth in the I=B=R Testing and Rating Standard for Baseboard Radiation, plus 15%. This added percentage is credited to the baseboard unit because this type of radiation is usually installed at low levels where maximum heating effect results.

WATER FLOW RATE. All baseboards are rated at a water flow rate of 500 lbs per hour (1 gpm). This rating must be used where the water flow rate through the baseboard is not known. An I=B=R Rating at a water flow rate of 2,000 lbs per hour (4 gpm) is also approved, when requested by the manufacturer. This 2,000 lb/hr rating is limited to installations where the water flow rate through the baseboard is equal to or greater than 2,000 lbs per hour.

ACTIVE LENGTH. All I=B=R Baseboard Ratings are based on active length. Manufacturers are required to publish in their literature the difference between active and total length.

PRESSURE DROP. Manufacturers are required to publish the pressure drop per linear foot applicable to 500lb/hr water flow rate, and if ratings are approved at 2,000 lb/hr water flow rate, the pressure drop per linear foot applicable to that flow rate.

PERIODIC TESTING. In addition to testing baseboards for initial approval, annual periodic tests are conducted at the I=B=R Laboratory to assure that current production will deliver the output originally approved. The production samples tested are selected from the manufacturer's stock by Institute personnel.

Every effort has been made by HI to assure the accuracy of the data contained in this Ratings book and in other Institute publications. However, neither HI nor those responsible for the preparation of Institute publications make any representation or guaranty, or assume or accept any responsibility or liability, with respect thereto.

DEFINITIONS

Average Water Temp F - Average Water Temperature Fahrenheit

Btuh at flow rate of 500 and 2000 lb/hr - British thermal heating unit at 500 and 2000 pounds per hour flow rate

gpm - gallons per minute

PERFORMANCE AT LOW WATER TEMPERATURES

To determine the baseboard rating for average water temperatures down to 90°F, multiply the rating at 150°F by the multiplier shown in the table below.

TABLE A

65°F Air Temperature, 1 gpm Flow Rate

Water Temperature, °F	Multiplier (times 150°F Rating)	
	copper-aluminum	cast-iron
150	1.00	1.00
140	0.84	0.82
130	0.69	0.68
120	0.55	0.54
110	0.41	0.42
100	0.28	0.32
90	0.17	0.22

BASEBOARD

STEAM		WATER		
Steam Btuh	Steam sqft/hr	Average Water Temp F	Btuh at flow rate of 500 lb/hr	Btuh at flow rate of 2000 lb/hr
ARGO TECHNOLOGY, INC.				
Designer Series 1"				
Aluminum Fins	2-1/8"H x 2-3/4"W x 0.011"			60 fins per foot
1" Copper Tubing				Enclosure Height: 9-7/8"
		150	480	510
		160	560	590
		170	650	690
		180	730	770
		190	820	870
		200	900	950
		210	980	1040
		220	1070	1130

Designer Series 3/4"				
Aluminum Fins	2-1/8"H x 2-3/4"W x 0.008"			60 fins per foot
3/4" Copper Tubing				Enclosure Height: 9-7/8"
		150	450	480
		160	530	560
		170	610	640
		180	690	730
		190	770	810
		200	850	900
		210	930	980
		220	1010	1070

Lo-Trim 3/4"				
Aluminum Fins	1-7/8"H x 2-11/32"W x 0.008"			65 fins per foot
3/4" Copper Tubing				Enclosure Height: 8"
		150	370	390
		160	430	450
		170	500	530
		180	560	590
		190	630	670
		200	690	730
		210	760	800
		220	820	870

Panel Trim 3/4" (AAA-3)				
Aluminum Fins	2-1/8"H x 2-3/4"W x 0.008"			60 fins per foot
3/4" Copper Tubing				Enclosure Height: 9-3/4"
		150	480	510
		160	570	600
		170	650	690
		180	740	780
		190	820	870
		200	910	960
		210	990	1050
		220	1080	1140

Panel Trim P.T. - 1				
Aluminum Fins	2-1/8"H x 2-3/4"W x 0.011"			57.50 fins per foot
1" Copper Tubing				Enclosure Height: 9-3/4"
		150	490	520
		160	580	610
		170	670	710
		180	760	800
		190	850	900
		200	940	990
		210	1020	1080
		220	1110	1170

BURNHAM HYDRONICS (U.S. BOILER CO., INC.)

No. 9A BaseRay®				
Cast Iron RC-air seal tape				
				Height: 9-7/8"
820	3.40	150	390	410
		160	450	480
		170	520	550

STEAM		WATER		
Steam Btuh	Steam sqft/hr	Average Water Temp F	Btuh at flow rate of 500 lb/hr	Btuh at flow rate of 2000 lb/hr
		180	590	620
		190	650	690
		195	680	720
		200	710	750
		210	770	810
		220	830	880
		230	890	940
Factory Painted Gray				

CROWN BOILER CO.

C-8 3/4"				
Aluminum Fins	2-1/8"H x 2-1/8"W x 0.008"			60 fins per foot
3/4" Copper Tubing				Enclosure Height: 7-5/8"
		150	350	370
		155	390	410
		160	420	440
		165	450	480
		170	480	510
		175	510	540
		180	550	580
		185	580	610
		190	610	640
		195	640	680
		200	670	710
		205	700	740
		210	730	770
		215	770	810
		220	800	850
		225	830	880
		230	860	910
		235	890	940
		240	920	970

**DESIGN LINE
DIVISION OF MESTEK, INC.**

Design Line Model DL-500				
Aluminum Fins	1-31/32"H x 1-11/16"W x 0.009"			64 fins per foot
1/2" Copper Tubing				Enclosure Height: 6-7/16"
		150	260	270
		160	300	320
		170	350	370
		180	400	420
		190	440	470
		200	490	520
		210	530	560
		215	560	590
		220	580	610
		230	620	660
		240	670	710

EMBASSY INDUSTRIES, INC.

High Capacity System 6/CB6				
SCE-632A Element in SEN-6 Enclosure				
Aluminum Fins	2-1/2"H x 2-3/4"W x 0.010"			60 fins per foot
3/4" Copper Tubing				Enclosure Height: 9-1/8"
		150	450	480
		160	530	560
		170	610	640
		180	700	740
		190	780	820
		200	860	910
		210	940	990
		220	1020	1080
		230	1100	1160
		240	1180	1250

BASEBOARD

STEAM		WATER			STEAM		WATER			
Steam Btuh	Steam sqft/hr	Average Water Temp F	Btuh at flow rate of 500 lb/hr	Btuh at flow rate of 2000 lb/hr	Steam Btuh	Steam sqft/hr	Average Water Temp F	Btuh at flow rate of 500 lb/hr	Btuh at flow rate of 2000 lb/hr	
EMBASSY INDUSTRIES, INC.										
High Capacity System 6/CB6										
SCE-633 Element in SEN 6 Enclosure										
Aluminum Fins	3"H x 3-1/4"W x 0.020"		51.50 fins per foot					175	510	540
3/4" Copper Tubing			Enclosure Height: 9-1/8"					180	540	570
		150	540	570				185	570	600
		160	630	670				190	600	630
		170	730	770				195	630	670
		180	820	870				200	660	700
		190	920	970				205	690	730
		200	1010	1070				210	720	760
		210	1100	1160				215	750	790
		220	1200	1270				220	780	820
		230	1290	1360				225	810	860
		240	1380	1460				230	840	890
								235	870	920
								240	900	950
					GOVERNALE COMPANY, INC.					
					GOV Board					
					Cast Iron RC-air seal tape					
									Height: 9-7/8"	
					750	3.15	150	360	380	
							160	420	440	
							170	490	520	
							180	550	580	
							190	610	640	
							200	680	720	
							210	740	780	
							220	800	850	
							230	870	920	
					Factory Painted Gray					
					HAYDON CORPORATION					
					THERMOGENICS DIVISION					
					Heat Base 750-1B					
Aluminum Fins	2-1/8"H x 2-1/2"W x 0.008"		54.50 fins per foot							
3/4" Copper Tubing			Enclosure Height: 7-1/4"							
		150	390	410				155	420	440
		160	450	480				160	450	480
		165	490	520				165	490	520
		170	520	550				170	520	550
		175	550	580				175	550	580
		180	580	610				180	580	610
		185	620	660				185	620	660
		190	650	690				190	650	690
		195	680	720				195	680	720
		200	720	760				200	720	760
		205	750	790				205	750	790
		210	780	820				210	780	820
		215	820	870				215	820	870
		220	850	900				220	850	900
		225	880	930				225	880	930
		230	920	970				230	920	970
		235	950	1000				235	950	1000
		240	980	1040				240	980	1040
High Capacity System 6/CB6										
SCE-653 Element in SEN-6 Enclosure										
Aluminum Fins	3"H x 3-1/4"W x 0.020"		51 fins per foot							
1-1/4" Copper Tubing			Enclosure Height: 9-1/8"							
		150	490	520						
		160	580	610						
		170	670	710						
		180	760	800						
		190	850	900						
		200	940	990						
		210	1030	1090						
		220	1120	1180						
		230	1220	1290						
		240	1310	1380						
High Capacity System 6/CB6										
SCE-642A Element in SEN-6 Enclosure										
Aluminum Fins	2-1/2"H x 2-3/4"W x 0.010"		55.25 fins per foot							
1" Copper Tubing			Enclosure Height: 9-1/8"							
		150	450	480						
		160	530	560						
		170	610	640						
		180	690	730						
		190	770	810						
		200	850	900						
		210	930	980						
		220	1010	1070						
		230	1090	1150						
		240	1170	1240						
High Capacity System 6/CB6										
SCE-643 Element in SEN-6 Enclosure										
Aluminum Fins	3"H x 3-1/4"W x 0.020"		51 fins per foot							
1" Copper Tubing			Enclosure Height: 9-1/8"							
		150	520	550						
		160	610	640						
		170	700	740						
		180	790	840						
		190	880	930						
		200	980	1040						
		210	1070	1130						
		220	1160	1230						
		230	1250	1320						
		240	1340	1420						
High Capacity System 6/CB6										
SCE-642A Element in SEN-6 Enclosure										
Aluminum Fins	2-1/2"H x 2-3/4"W x 0.010"		55.25 fins per foot							
1" Copper Tubing			Enclosure Height: 9-1/8"							
		150	450	480						
		160	530	560						
		170	610	640						
		180	690	730						
		190	770	810						
		200	850	900						
		210	930	980						
		220	1010	1070						
		230	1090	1150						
		240	1170	1240						
High Capacity System 6/CB6										
SCE-643 Element in SEN-6 Enclosure										
Aluminum Fins	3"H x 3-1/4"W x 0.020"		51 fins per foot							
1-1/4" Copper Tubing			Enclosure Height: 9-1/8"							
		150	490	520						
		160	580	610						
		170	670	710						
		180	760	800						
		190	850	900						
		200	940	990						
		210	1030	1090						
		220	1120	1180						
		230	1220	1290						
		240	1310	1380						
High Capacity System 6/CB6										
SCE-653 Element in SEN-6 Enclosure										
Aluminum Fins	2-1/8"H x 2-1/8"W x 0.008"		51 fins per foot							
3/4" Copper Tubing			Enclosure Height: 7-5/8"							
		150	350	370						
		155	380	400						
		160	410	430						
		165	450	480						
		170	480	510						
High Capacity System 6/CB6										
SCE-642A Element in SEN-6 Enclosure										
Aluminum Fins	2-1/8"H x 2-1/8"W x 0.008"		51 fins per foot							
3/4" Copper Tubing			Enclosure Height: 7-5/8"							
		150	350	370						
		155	380	400						
		160	410	430						
		165	450	480						
		170	480	510						

BASEBOARD

STEAM		WATER			STEAM		WATER		
Steam Btuh	Steam sqft/hr	Average Water Temp F	Btuh at flow rate of 500 lb/hr	Btuh at flow rate of 2000 lb/hr	Steam Btuh	Steam sqft/hr	Average Water Temp F	Btuh at flow rate of 500 lb/hr	Btuh at flow rate of 2000 lb/hr
HAYDON CORPORATION THERMOGENICS DIVISION									
HI Output 958-2									
Aluminum Fins		2-1/2"H x 3-1/4"W x 0.015"			55 fins per foot				
3/4" Copper Tubing		Enclosure Height: 9-1/4"							
		205	1090	1150			195	960	1010
		210	1140	1200			200	1010	1070
		215	1190	1260			205	1060	1120
		220	1240	1310			210	1110	1170
		225	1290	1360			215	1160	1230
		230	1340	1420			220	1200	1270
		235	1390	1470			225	1250	1320
		240	1430	1510			230	1300	1370
							235	1350	1430
							240	1400	1480
HI Output 958-3					SUPR-Heat 1000-1A				
Aluminum Fins		2-3/4"H x 3-1/4"W x 0.020"			55 fins per foot				
1" Copper Tubing		Enclosure Height: 10-1/4"							
		150	550	580			150	600	630
		155	600	630			155	650	690
		160	660	700			160	700	740
		165	710	750			165	750	790
		170	760	800			170	800	850
		175	810	860			175	850	900
		180	860	910			180	900	950
		185	910	960			185	950	1000
		190	960	1010			190	990	1050
		195	1010	1070			195	1040	1100
		200	1060	1120			200	1090	1150
		205	1110	1170			205	1140	1200
		210	1160	1230			210	1190	1260
		215	1220	1290			215	1240	1310
		220	1270	1340			220	1290	1360
		225	1320	1400			225	1340	1420
		230	1370	1450			230	1390	1470
		235	1420	1500			235	1440	1520
		240	1470	1550			240	1490	1570
HI Output 958-4					SUPR-Heat 1000-2A				
Steel (Aluminized) Fins		3"H x 3-1/4"W x 0.026"			54 fins per foot				
1-1/4" I.P.S. Tubing		Enclosure Height: 10-1/4"							
890	3.71	150	420	440			150	580	610
		155	450	480			155	630	670
		160	490	520			160	680	720
		165	520	550			165	740	780
		170	560	590			170	790	840
		175	590	620			175	840	890
		180	630	670			180	900	950
		185	660	700			185	950	1000
		190	690	730			190	1000	1060
		195	730	770			195	1050	1110
		200	760	800			200	1110	1170
		205	800	850			205	1160	1230
		210	830	880			210	1210	1280
		215	870	920			215	1270	1340
		220	900	950			220	1320	1400
		225	940	990			225	1370	1450
		230	970	1030			230	1420	1500
		235	1000	1060			235	1480	1560
		240	1040	1100			240	1530	1620
HI Output 958-5					SUPR-Heat 1000-3A				
Aluminum Fins		3"H x 3-1/4"W x 0.020"			54 fins per foot				
1-1/4" Copper Tubing		Enclosure Height: 10-1/4"							
1240	5.17	150	530	560	1300	5.40	150	550	580
		155	580	610			155	600	630
		160	620	660			160	650	690
		165	670	710			165	700	740
		170	720	760			170	750	790
		175	770	810			175	800	850
		180	820	870			180	850	900
		185	870	920			185	900	950
		190	910	960			190	950	1000
							195	1000	1060
							200	1050	1110
							205	1100	1160
							210	1150	1220
							215	1190	1260

BASEBOARD

STEAM		WATER		
Steam Btuh	Steam sqft/hr	Average Water Temp F	Btuh at flow rate of 500 lb/hr	Btuh at flow rate of 2000 lb/hr
HAYDON CORPORATION				
THERMOGENICS DIVISION				
SUPR-Heat 1000-3A				
Aluminum Fins	3"H x 3-1/4"W x 0.020"		54 fins per foot	
1-1/4" Copper Tubing			Enclosure Height: 10-1/4"	
		220	1240	1310
		225	1290	1360
		230	1340	1420
		235	1390	1470
		240	1440	1520

SUPR-Heat 1000-S125A				
Steel (Aluminized) Fins	3"H x 3-1/4"W x 0.026"		48 fins per foot	
1-1/4" I.P.S. Tubing			Enclosure Height: 10-1/4"	
940	3.92	150	430	450
		155	460	490
		160	500	530
		165	540	570
		170	570	600
		175	610	640
		180	640	680
		185	680	720
		190	710	750
		195	750	790
		200	790	840
		205	820	870
		210	860	910
		215	890	940
		220	930	980
		225	960	1010
		230	1000	1060
		235	1040	1100
		240	1070	1130

HYDROTHERM DIVISION OF MESTEK, INC.				
Model H-750				
Aluminum Fins	2-1/8"H x 2-1/8"W x 0.008"		51 fins per foot	
3/4" Copper Tubing			Enclosure Height: 7-7/16"	
		150	360	380
		160	430	450
		170	500	530
		180	560	590
		190	630	670
		200	690	730
		210	760	800
		215	790	840
		220	830	880
		230	890	940
		240	960	1010

OCS INDUSTRIES DIVISION OF CIDC CORP.				
Cast Slope				
Cast Iron RC				
			Height: 10-7/16"	
780	3.25	150	370	390
		160	440	470
		170	500	530
		180	570	600
		190	640	680
		200	700	740
		210	770	810
		215	800	850
		220	830	880

Factory Painted Gray

STEAM		WATER		
Steam Btuh	Steam sqft/hr	Average Water Temp F	Btuh at flow rate of 500 lb/hr	Btuh at flow rate of 2000 lb/hr
SLANT/FIN CORPORATION				
Base/Line 2000 (1/2") No. BL-50				
Aluminum Fins	2-1/8"H x 2-9/32"W x 0.009"		55 fins per foot	
1/2" Copper Tubing			Enclosure Height: 7-13/32"	
		150	360	380
		160	430	450
		170	500	530
		180	570	600
		190	630	670
		200	700	740
		210	770	810
		215	810	860
		220	840	890
		230	910	960
		240	970	1030

Base/Line 2000 (3/4") No. BL-75				
Aluminum Fins	2-1/8"H x 2-5/16"W x 0.009"		56.35 fins per foot	
3/4" Copper Tubing			Enclosure Height: 7-13/32"	
		150	360	380
		160	430	450
		170	500	530
		180	570	600
		190	630	670
		200	700	740
		210	770	810
		215	810	860
		220	840	890
		230	910	960
		240	970	1030

Base/line 70 Model 70-E				
Aluminum Fins	2-1/8"H x 2-19/64"W x 0.009"		56.35 fins per foot	
3/4" Copper Tubing			Enclosure Height: 9-1/4"	
		150	390	410
		160	460	490
		170	540	570
		180	610	640
		190	680	720
		200	750	790
		210	830	880
		215	860	910
		220	900	950
		230	970	1030
		240	1040	1100

Base/line 70 Model 73-A				
Aluminum Fins	2-1/2"H x 2-3/4"W x 0.011"		55 fins per foot	
3/4" Copper Tubing			Enclosure Height: 9-1/4"	
		150	480	510
		160	560	590
		170	640	680
		180	720	760
		190	800	850
		200	880	930
		210	960	1010
		215	1000	1060
		220	1040	1100
		230	1120	1180
		240	1200	1270

Fine/line 15-50				
Aluminum Fins	2-1/8"H x 2-9/32"W x 0.009"		54.70 fins per foot	
1/2" Copper Tubing			Enclosure Height: 6-31/32"	
		150	370	390
		160	430	450
		170	490	520
		180	550	580
		190	610	640

BASEBOARD

STEAM		WATER		
Steam Btuh	Steam sqft/hr	Average Water Temp F	Btuh at flow rate of 500 lb/hr	Btuh at flow rate of 2000 lb/hr
SLANT/FIN CORPORATION				
Fine/line 15-50				
Aluminum Fins	2-1/8"H x 2-9/32"W x 0.009"		54.70 fins per foot	
1/2" Copper Tubing			Enclosure Height: 6-31/32"	
		200	680	720
		210	740	780
		215	770	810
		220	800	850
		230	860	910
		240	920	970
Fine/line 15-75E				
Aluminum Fins	2-1/8"H x 2-19/64"W x 0.009"		55.50 fins per foot	
3/4" Copper Tubing			Enclosure Height: 6-31/32"	
		150	350	370
		160	420	440
		170	480	510
		180	550	580
		190	620	660
		200	680	720
		210	750	790
		215	780	820
		220	820	870
		230	880	930
		240	950	1000
Fine/line 30-75 and 30RR-75				
Aluminum Fins	2-1/8"H x 2-9/32"W x 0.009"		55 fins per foot	
3/4" Copper Tubing			Enclosure Height: 7-7/8"	
		150	380	400
		160	450	480
		170	510	540
		180	580	610
		190	640	680
		200	710	750
		210	770	810
		215	810	860
		220	840	890
		230	910	960
		240	970	1030
Multi/Pak 80 81A				
Aluminum Fins	3-1/4"H x 3"W x 0.024"		48 fins per foot	
3/4" Copper Tubing			Enclosure Height: 8-7/8"	
		150	520	550
		160	610	640
		170	700	740
		180	790	840
		190	880	930
		200	970	1030
		210	1060	1120
		215	1100	1160
		220	1140	1200
		230	1230	1300
		240	1320	1400
Multi/Pak 80 83A2				
Aluminum Fins	2-1/2"H x 2-3/4"W x 0.011"		55 fins per foot	
3/4" Copper Tubing			Enclosure Height: 8-7/8"	
		150	490	520
		160	570	600
		170	650	690
		180	730	770
		190	810	860
		200	890	940
		210	970	1030
		215	1010	1070
		220	1050	1110
		230	1130	1190
		240	1210	1280

STEAM		WATER		
Steam Btuh	Steam sqft/hr	Average Water Temp F	Btuh at flow rate of 500 lb/hr	Btuh at flow rate of 2000 lb/hr
Multi/Pak 80 84A3				
Aluminum Fins	2-1/2"H x 3"W x 0.011"		48 fins per foot	
1" Copper Tubing			Enclosure Height: 8-7/8"	
		150	440	470
		160	520	550
		170	590	620
		180	660	700
		190	730	770
		200	810	860
		210	880	930
		215	920	970
		220	950	1000
		230	1020	1080
		240	1100	1160
Multi/Pak 80 85AX				
Aluminum Fins	3-1/4"H x 3"W x 0.020"		48 fins per foot	
1-1/4" Copper Tubing			Enclosure Height: 8-7/8"	
1130	4.71	150	470	500
		160	560	590
		170	650	690
		180	740	780
		190	830	880
		200	920	970
		210	1010	1070
		215	1060	1120
		220	1100	1160
		230	1190	1260
		240	1280	1350
Multi/Pak 80 86AX				
Steel (Aluminized) Fins	3-1/4"H x 3"W x 0.028"		48 fins per foot	
1-1/4" I.P.S. Tubing			Enclosure Height: 8-7/8"	
		150	380	400
		160	450	480
		170	520	550
		180	590	620
		190	660	700
		200	730	770
		210	800	850
		215	830	880
		220	870	920
		230	940	990
		240	1010	1070
Rhino Cast				
Cast Iron RC				
			Height: 8-27/64"	
730	3.04	150	360	380
		160	420	440
		170	480	510
		180	540	570
		190	610	640
		200	670	710
		210	730	770
		215	760	800
		220	790	840
Factory Painted Gray; Reduce Ratings 3% with Outlet Grille Installed				
STERLING HYDRONICS				
DIVISION OF MESTEK, INC.				
Commercial/Institutional LB-2(1)				
Aluminum Fins	2-1/2"H x 2-3/4"W x 0.011"		55 fins per foot	
1" Copper Tubing			Enclosure Height: 10-3/4"	
		150	460	490
		160	540	570
		170	620	660
		180	710	750
		190	790	840

BASEBOARD

STEAM		WATER			STEAM		WATER		
Steam Btuh	Steam sqft/hr	Average Water Temp F	Btuh at flow rate of 500 lb/hr	Btuh at flow rate of 2000 lb/hr	Steam Btuh	Steam sqft/hr	Average Water Temp F	Btuh at flow rate of 500 lb/hr	Btuh at flow rate of 2000 lb/hr
STERLING HYDRONICS DIVISION OF MESTEK, INC.					Kom-Pak KP-3/4-50-2				
Commercial/Institutional LB-2(1)		Aluminum Fins 2-1/2"H x 2-3/4"W x 0.011" 55 fins per foot			Aluminum Fins 2-1/2"H x 2-1/4"W x 0.011" 50 fins per foot		3/4" Copper Tubing Enclosure Height: 8-1/2"		
		200	870	920			150	400	420
		210	950	1000			160	460	490
		215	990	1050			170	530	560
		220	1030	1090			180	590	620
		230	1110	1170			190	660	700
		240	1200	1270			200	720	760
							210	780	820
							215	820	870
							220	850	900
							230	910	960
							240	980	1040
Commercial/Institutional LB-2(3/4)		Aluminum Fins 2-1/2"H x 2-3/4"W x 0.010" 60 fins per foot			Petite P77A		Aluminum Fins 2"H x 2-1/2"W x 0.010" 51.80 fins per foot		
3/4" Copper Tubing		Enclosure Height: 10-3/4"			3/4" Copper Tubing		Enclosure Height: 6-7/8"		
		150	470	500			150	390	410
		160	550	580			155	420	440
		170	630	670			160	450	480
		180	720	760			165	480	510
		190	800	850			170	510	540
		200	890	940			175	540	570
		210	970	1030			180	570	600
		215	1010	1070			185	600	630
		220	1060	1120			190	630	670
		230	1140	1200			195	660	700
		240	1230	1300			200	690	730
							205	720	760
							210	760	800
							215	790	840
							220	820	870
							225	850	900
							230	880	930
							235	910	960
							240	940	990
Heatrim Model RB500		Aluminum Fins 2-1/8"H x 2-1/8"W x 0.008" 52 fins per foot			Senior SR-1-55		Aluminum Fins 2-1/2"H x 2-3/4"W x 0.011" 55 fins per foot		
1/2" Copper Tubing		Enclosure Height: 7-7/16"			1" Copper Tubing		Enclosure Height: 9-13/16"		
		150	380	400			150	470	500
		160	440	470			160	550	580
		170	510	540			170	630	670
		180	580	610			180	720	760
		190	640	680			190	800	850
		200	710	750			200	880	930
		210	780	820			210	960	1010
		215	810	860			220	1040	1100
		220	850	900			230	1130	1190
		230	910	960			240	1210	1280
		240	980	1040					
Heatrim Model RB750		Aluminum Fins 2-1/8"H x 2-1/8"W x 0.008" 51 fins per foot			Senior SR-3/4-60		Aluminum Fins 2-1/2"H x 2-3/4"W x 0.010" 60 fins per foot		
3/4" Copper Tubing		Enclosure Height: 7-7/16"			3/4" Copper Tubing		Enclosure Height: 9-13/16"		
		150	360	380			150	470	500
		160	430	450			160	550	580
		170	500	530			170	640	680
		180	560	590			180	720	760
		190	630	670			190	810	860
		200	690	730			200	890	940
		210	760	800			210	970	1030
		215	790	840			220	1060	1120
		220	830	880			230	1140	1200
		230	890	940			240	1230	1300
		240	960	1010					
Kom-Pak KP-1/2-50-2		Aluminum Fins 2-1/2"H x 2-1/4"W x 0.011" 50 fins per foot							
1/2" Copper Tubing		Enclosure Height: 8-1/2"							
		150	400	420					
		160	470	500					
		170	540	570					
		180	610	640					
		190	670	710					
		200	740	780					
		210	810	860					
		215	840	890					
		220	880	930					
		230	950	1000					
		240	1010	1070					

**SUNTEMP
DIVISION OF MESTEK, INC.**

Suntemp 600 SU6

BASEBOARD

STEAM			WATER			STEAM			WATER			
Steam Btuh	Steam sqft/hr	Average Water Temp F	Btuh at flow rate of 500 lb/hr	Btuh at flow rate of 2000 lb/hr	Average Water Temp F	Btuh at flow rate of 500 lb/hr	Btuh at flow rate of 2000 lb/hr	Steam Btuh	Steam sqft/hr	Average Water Temp F	Btuh at flow rate of 500 lb/hr	Btuh at flow rate of 2000 lb/hr
SUNTEMP						190	640					
DIVISION OF MESTEK, INC.						195	670					
Suntemp 600 SU6						200	700					
Aluminum Fins	2-1/8"H x 2-1/8"W x 0.008"		51 fins per foot			205	730					
3/4" Copper Tubing			Enclosure Height: 7-15/32"			210	760					
		150	360	380		215	800					
		160	420	440		220	830					
		170	480	510		Factory Painted Gray; Kraft paper backing and/or Neoprene seal						
		180	540	570								
		190	600	630								
		200	670	710								
		210	730	770								
		215	760	800								
		220	790	840								
		230	850	900								
		240	910	960								
Suntemp Imperial 700-A1												
Aluminum Fins	2"H x 2-13/32"W x 0.010"		51.10 fins per foot									
3/4" Copper Tubing			Enclosure Height: 7-7/8"									
		150	370	390								
		160	430	450								
		170	500	530								
		180	560	590								
		190	620	660								
		200	690	730								
		210	750	790								
		215	780	820								
		220	810	860								
		230	880	930								
		240	940	990								
WEIL-MCLAIN												
High-Trim HT 1"												
Aluminum Fins	2-1/8"H x 2-3/4"W x 0.011"		57.50 fins per foot									
1" Copper Tubing			Enclosure Height: 9-3/4"									
		150	470	500								
		160	550	580								
		170	630	670								
		180	720	760								
		190	800	850								
		200	880	930								
		210	970	1030								
		220	1050	1110								
High-Trim HT 3/4"												
Aluminum Fins	2-1/8"H x 2-3/4"W x 0.008"		60 fins per foot									
3/4" Copper Tubing			Enclosure Height: 9-3/4"									
		150	480	510								
		160	570	600								
		170	650	690								
		180	740	780								
		190	820	870								
		200	910	960								
		210	990	1050								
		220	1080	1140								
No. 9 Snug												
Cast Iron RC												
						Height: 9-3/4"						
		150	390									
		155	420									
		160	450									
		165	480									
		170	510									
		175	540									
		180	570									
		185	600									

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