Panel Radiators "Solidoflux - N"

Comfortable Radiant Heat Individual Temperature Control Utilizes Less Linear Wall Space





Comfort and Versatility . . . The Choice is Buderus

... comfort is defined by more than the air temperature in a room.



he comfort and versatility of panel radiation has long been accepted as the standard of quality heating in Europe. Now a reliable source of low cost, high quality radiation is available in the United States. Buderus, the world's largest producer of cast iron boilers, manufactures high output hydronic steel panel radiators which are stocked in the U.S.

Panel radiators produce an incredibly comfortable heat. Our sense of comfort is defined by more than the air temperature in a room. Many of us have had the experience of feeling chilled in a room only to look at our thermostat and discover that the temperature reads 70°F. The really curious may have pondered the fact that at 70°F in the summer we are trying to cool off, but at an indoor temperature of 70°F in the winter we are still trying to warm up. While factors such as draft and humidity may contribute to this, there is another element which plays a central part in our sense of comfort and that element is radiant.

Convected heat, generated by conventional style fin-tube baseboard, warms only the air and circulates around all ceiling, wall and floor surfaces. Panel radiators, however, provide both convected and radiant heat. Radiant heat, like the sun, warms objects rather than air, creating a greater sense of warmth faster and at lower room temperatures. Buderus radiators are designed to operate with individual thermostats. With this option you are able to control the temperature of each panel separately. The design and styling of Buderus radiators eliminates the noise associated with other heating systems. . . no more clanking and hissing. And since these radiators utilize less space than baseboard, more flexible furniture placement and room decor is possible. Unique Buderus styling also minimizes areas where dust and dirt can collect. All these features combine to offer you a cleaner, quieter, and more comfortable source of heat.

PANEL RADIATORS SOLIDOFLUX "N"

The SOLIDOFLUX "N" panel radiators are available in a variety of lengths and heights. They are stocked in three heights, 12", 20" and 24" and in two widths, Model 11 (21/2") and Model 22 (4"). Our special bathroom model is 4" wide, 16" long and 36" high.

Additional sizes, up to 3 ft. high and 10 ft. long, including the high output Model 33, are available with a 4 to 6 week lead time.

All Buderus panel radiators are supplied in powder-enameled white, which matches most existing color schemes. Or, if you prefer you can paint them any color you wish. Each panel includes side panels, grill covers, and flowsetter valve.

The SOLIDOFLUX "N" radiator has piping connections located at the bottom, offering the advantage of less exposed distribution piping. The radiators can be piped as a standard 2-pipe (supply/return) system, on a monoflow-loop, or as a one pipe series-loop by installing the optional diverting valve.

The adjustable diverter valve is field installed external to the radiator and attaches to the existing bottom tappings on the radiator. The resulting one-pipe series-loop provides two major installation advantages over a two-pipe (supply/return) system:

- 1. Less material is required between radiators.
- 2. Less time is required to complete installation.

Compression fittings are available for copper or PEX tubing connections.

A 5/8" PEX one-pipe series loop can carry 25,000 Btu/hr based on a 36°F drop in loop temperature. Similarly, a 1/2" copper loop handles up to 18,000 Btu/hr. Radiators at the end of the loop require slight oversizing because of lower water temperature. Equip the radiators with thermostatic heads and each radiator has its own temperature control.

The SOLIDOFLUX "N" also features an integral flow setter to facilitate balancing the system.

Buderus radiators are designed for use with hot water systems only. Steam radiators are not available.

... why do bottom piping connections offer a distinct advantage?

Bottom piping connections offer a minimum amount of exposed tubing, so as not to spoil or interfere with overall room appearance and decor. Such innovative design features are reflected in all Buderus products.



Buderus Panel Radiation with bottom piping connections and 90° diverter valve . . true innovation, by design.

Technical Specifications

BTU OUTPUTS AT 108° F TEMPERATURE DIFFERENCE			MODEL 11 PK 2-1/2" WIDE			MODEL 22 PKKP 4" WIDE			Max. working pressure = 147 psi (factory tested at 191 psi)
Water capacity per foot of radiator length			.17 Gal.	.28 Gal.	.32 Gal.	.34 Gal.	.56 Gal.	.65 Gal.	Max. working temp. = 250° F
HEIGHT			12" 300 mm	20" 500 mm	24" 600 mm	12" 300 mm	20" 500 mm	24" 600 mm	Specifications/Scope of Delivery
L	INCH	ММ	BTU	BTU	BTU	BTU	BTU	BTU	Panel Radiator with fluted front panel, made from .049" steel, with convection tunnels welded
E N G	16 24 36	400 600 900	1047 1570 2356	N/A 2224 3336	N/A 2591 3887	1900 2850 4275	2650 4000 6000	3080 4600 6900	on the water channels. Outputs determined according to German DIN 4704 standard.
T H	48 63 71	1200 1600 1800	3140 3926 4711	4448 5560 6672	5182 6478 7774	5700 7125 8550	8000 10000 12000	9200 11500 13800	Radiators come with baked on white powder coating, air bleeder and a flowsetter valve. Piping connections
Special Bathroom Model				36" H	High x 16" Lo	ong 4300		300	(R20 Male Metric, approximately 3/4") are located at the bottom right hand of the radiator.
SHIPPING WEIGHTS			MODEL 11 PK 2-1/2" WIDE			MODEL 22 PKKP 4" WIDE			Radiators are packed in shrink wrap, corners reinforced. Wrap
HEIGHT		12" 300 mm	20" 500 mm	24" 600 mm	12" 300 mm	20" 500 mm	24" 600 mm	serves as protection during transport and assembly.	
L	INCH	ММ	LBS	LBS	LBS	LBS	LBS	LBS	Note: Radiators with left hand tappings are available upon
E N G	16 24 36	400 600 900	9 13 lbs 19 lbs	N/A 24 lbs 36 lbs	N/A 29 lbs 43 lbs	16 lbs 24 lbs 36 lbs	29 lbs 43 lbs 61 lbs	34 lbs 51 lbs 77 lbs	request with a 4 to 6 week lead- time.
T H	48 63 71	1200 1600 1800	25 lbs 33 lbs 37 lbs	48 lbs 60 lbs 72 lbs	58 lbs 72 lbs 86 lbs	48 lbs 63 lbs 71 lbs	85 lbs 106 lbs 127 lbs	102 lbs 128 lbs 158 lbs	SEE ACCESSORIES ON PAGE 6
	36" High x 16" Long Radiator, 22 (PKKP) = 51 lbs.								

BTU Outputs listed above are based on an average Water Temperature of 180° F (For Conversion Factor Table see Page 6.)

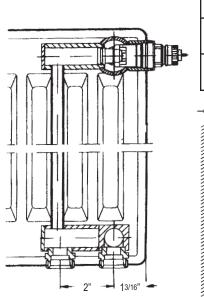


... white radiators enable unlimited potential to match your decor

Buderus thermostatic heads for individual room control.

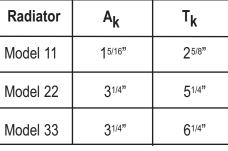
PANEL RADIATORS "SOLIDOFLUX - N"

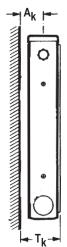
Rough-In Dimensions

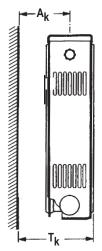


Return

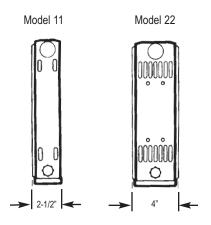
Supply

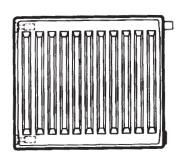






Front, Top and Side Views Model 11 & 22





Model 11



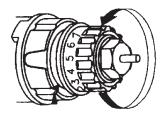
Model 22



MODEL 33 - High Output

6" Wide Radiators.
Output is 40-45% higher than Model 22.
Available by Special Order Only.

Flow-Setter Valve



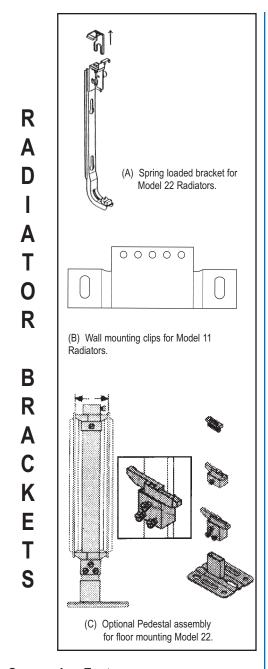
Turn red or yellow adjustment ring and align the desired setting with machined groove.

 $1, 2, ..., N \rightarrow \text{more flow}.$

Flow-Setter Valve . . . A Buderus Exclusive

Another design feature unique to Buderus is our Flow-Setter Valve. This feature enables your system installer to quickly and easily regulate the water flow through the radiator. The result is consistent, even heat throughout all units in the house. No more feeling warm in one room, and chilly in another.

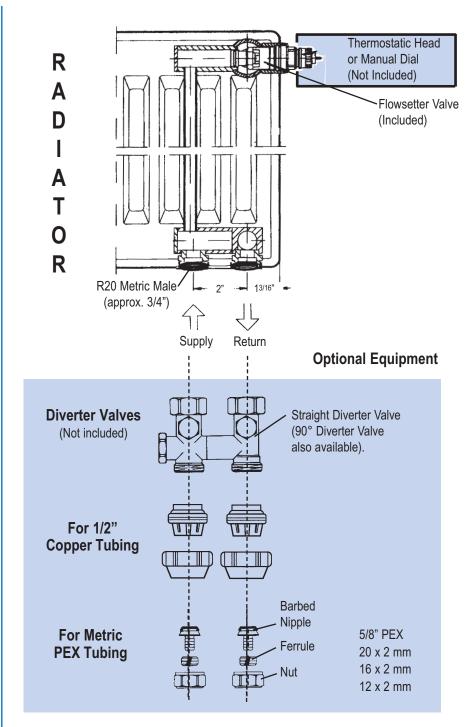
Finally, the best feature of Buderus panel radiation is the least obvious . . . they're all but silent when operating. Because Buderus radiators don't turn "on and off" in the way traditional baseboards do, there isn't the sound of creaking and expanding joints, wood, etc. No longer will you even be aware that your home is being warmed by the most technologically advanced system available today.



Conversion Factors

Factors for differences between average water temperature and room temperature in °F other than 108°F, (example: water temperature 180°F, minus room temperature 72°F equals △T 108°.)

△T	Conversion	△T	Conversion
°F	Factor	° F	Factor
10	0.045	90	0.789
20	0.112	100	0.905
30	0.198	108	1.000
40	0.275	110	1.024
50	0.367	120	1.147
60	0.466	130	1.272
70	0.569	140	1.401
80	0.677	150	1.535



Spring or wall mounting clips are standard supplied with each radiator. Compression fittings, diverter valves, thermostatic heads and manual dials must be ordered separately.



HYDRONIC SYSTEMS

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