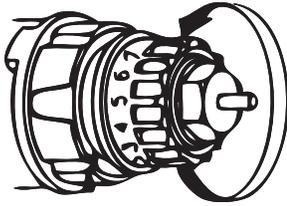


Panel Radiators

Technical Data

Buderus

Revolutionary Flow-Setter Valve



A unique design feature on all Buderus panel radiators is the Flow-Setter Valve. This feature enables the system installer to quickly and easily regulate the water flow through the radiator room by room. The result is a consistent, even heat throughout all panel units in the house — no more feeling warm in one room and chilly in another.

Bottom Piping Advantage

Buderus panel radiators have piping connections located at the bottom of the panel which minimizes the exposed distribution piping creating a more attractive room appearance. 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 an optional diverting valve.

The adjustable diverter valve is field installed and is external to the radiator and attaches to the existing bottom tapings on the radiator. This results in a one-pipe series-loop installation that requires less material between radiators and less time is required to complete the installation.

Installation Tips

Keep in mind, radiators at the end of the loop require slight over-sizing because of lower water temperature. Buderus panel radiators are field reversible for either right or left piping connections, and each has its own temperature control when equipped with a thermostatic head/valve.

Caution: Buderus radiators are designed for use with hot water systems only. Steam radiators will not work with panel radiators.

Whether you are installing a brand new heating system or replacing fin-tube or cast iron radiators, Buderus radiators offer you a highly efficient, quieter and more comfortable source of heat.

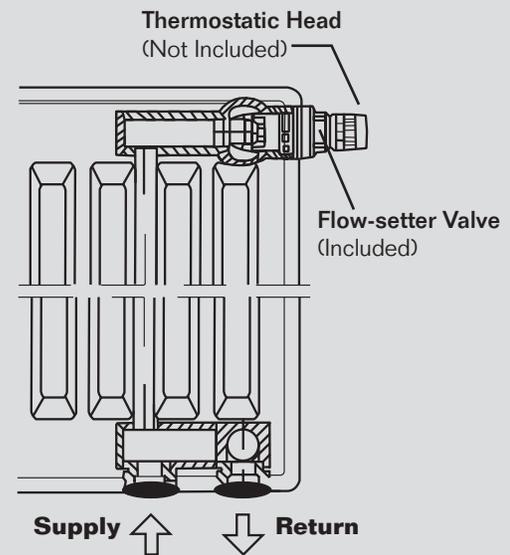


Panel Radiators Facts:

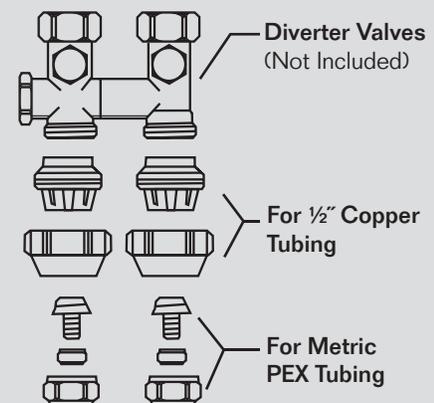
- Fluted front panel made from .049" steel
- Convection tunnels welded on the water channels
- Outputs determined according to German DIN 4704 standard
- Baked on white powder coating
- Air bleeder and flow-setting valve
- Piping connections (R20 Male Metric, approximately 3/4") located on bottom right hand of radiator
- Radiators are packed in shrink wrap, corners reinforced

Comfortable. Efficient. Intelligent Heating.

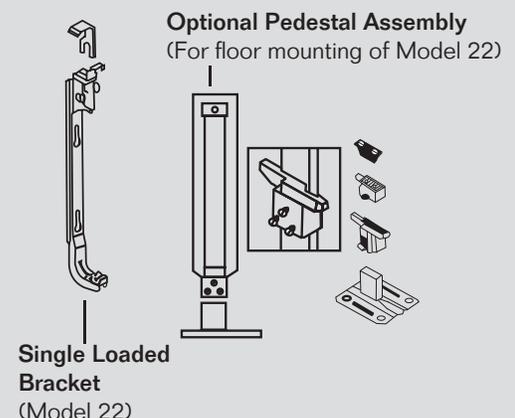
Radiator Parts



Optional Equipment



Radiator Brackets



Radiator Dimensions

Model 21 (PK 2 1/2" Wide)

BTU Chart*

*BTU Outputs at 108° F Temperature Difference

		LENGTH				
		24"	36"	48"	63"	71"
HEIGHT	12"	1,970	2,960	3,950	4,940	5,920
	20"	2,920	4,380	5,840	7,300	8,750
	24"	3,370	5,060	6,740	8,420	10,110

Water Capacity (Gallons)

		LENGTH				
		24"	36"	48"	63"	71"
HEIGHT	12"	0.68	1.29	1.72	2.26	2.55
	20"	1.12	1.68	2.24	2.94	3.32
	24"	1.28	1.95	2.60	3.41	3.85

Shipping Weight (Lbs.)

		LENGTH				
		24"	36"	48"	63"	71"
HEIGHT	12"	20	29	40	51	62
	20"	33	50	66	85	101
	24"	40	59	79	99	120

Model 22 (PKKP 4" Wide)

BTU Chart*

*BTU Outputs at 108° F Temperature Difference

		LENGTH					
		16"	24"	36"	48"	63"	71"
HEIGHT	12"	1,900	2,850	4,275	5,700	7,125	8,550
	20"	2,650	4,000	6,000	8,000	10,000	12,000
	24"	3,080	4,600	6,900	9,200	11,500	13,800
	†36"	4,300					

Water Capacity (Gallons)

		LENGTH					
		16"	24"	36"	48"	63"	71"
HEIGHT	12"	0.56	0.68	1.29	1.72	2.26	2.55
	20"	0.73	1.12	1.68	2.24	2.94	3.32
	24"	0.85	1.30	1.95	2.60	3.41	3.85
	†36"	1.12					

Shipping Weight (Lbs.)

		LENGTH					
		16"	24"	36"	48"	63"	71"
HEIGHT	12"	16	24	36	48	63	71
	20"	29	43	61	85	106	127
	24"	34	51	77	102	128	158
	†36"	51					

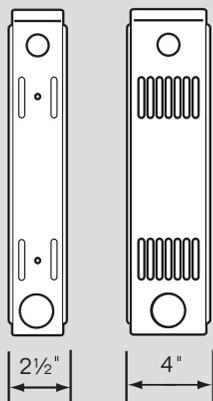
†Special Bathroom Model available: 36" H x 16" L

Conversion Factors

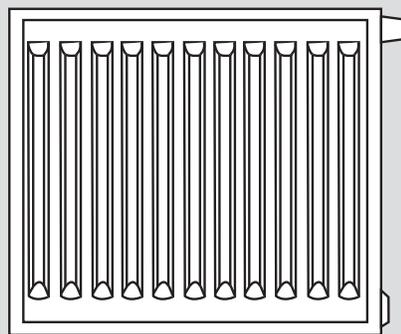
Factors for differences between average water temperature and room temperature in °F other than 108°F.
Example: Water temperature 180°F, minus room temperature 72°F equals ΔT 108°.

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

Model 21 Model 22

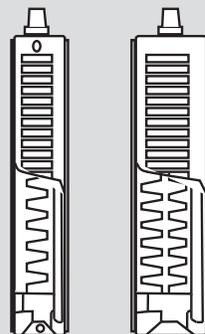


Front View

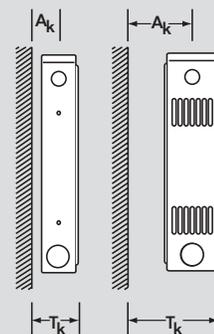


Side View

Model 21 Model 22



Top View



Radiator	A _k	T _k
Model 21	2 5/8"	3 3/8"
Model 22	3 1/4"	5 1/4"

Buderus

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Subject to change without notice
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