

Tinos V | Technical Data Sheet

Description

The minimalistic design of **Tinos V** stands out in every room, whether the living room, bedroom or kitchen. It is narrow and discrete and provides a very high heating effect although the space is limited. The side covers are integrated with a decorative front plate in one elegant edged casing glued to the core radiator body. Complete with brackets set including rails, screws and dowels with mounting instruction, 3 brass blind plugs and air-vent. Extra accessories like towel rail in high-quality stainless steel or thermostatic valves and heads are available as accessories to order separately.

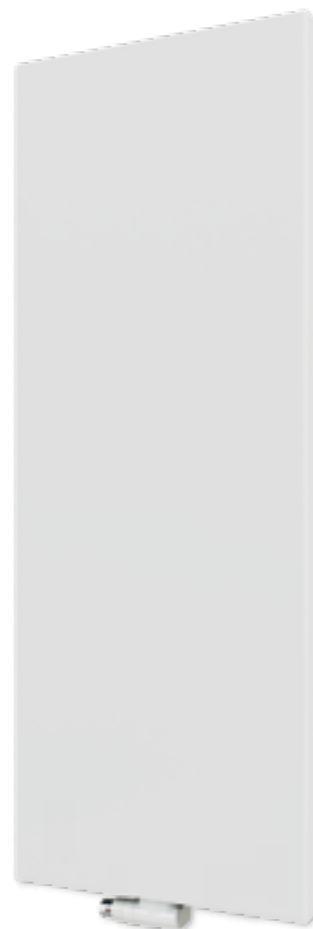
Connections

4 x G 1/2 " bottom connections

2 x G 1/2 " top connections – for mounting plug and air vent.

Accessories bundled with the radiator

Wall brackets with screws and dowels, 3 brass blind plugs, air vent



* Thermostatic valve + head set presented on the image is not included. This accessory must be order separately.



max. 10 bar

max. 110 °C

Brand

All Purmo Group brands

Product

Tinos V

Material

High-quality cold rolled steel sheet in accordance with EN 10130

Spacing of vertical water channels

33.3 mm

Conformity

CE test report EN 442

Colours

RAL 9016 white, other colours from the RAL colour palette are available on request.

Max operating pressure (MOP)

10 bar

Max test pressure

13 bar

Max operating temperature

110 °C

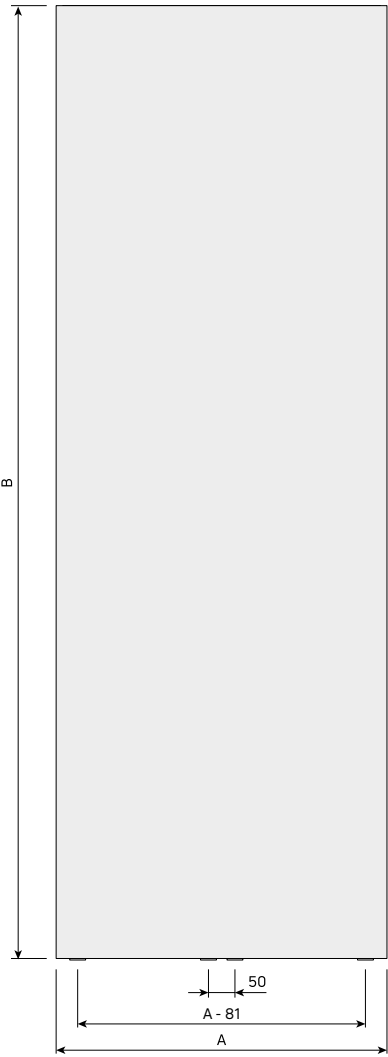
Warranty

10 years



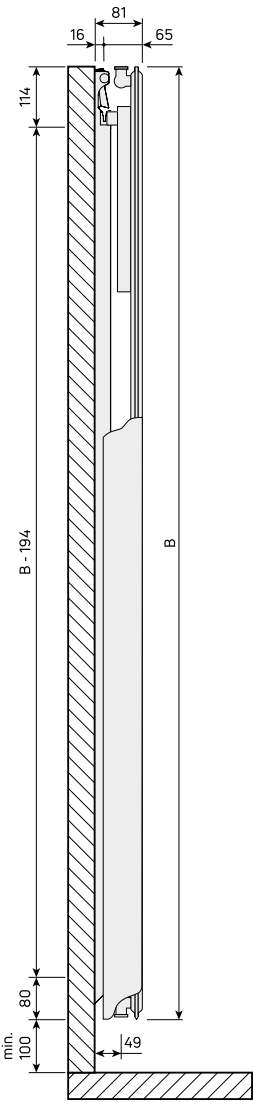
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Front view

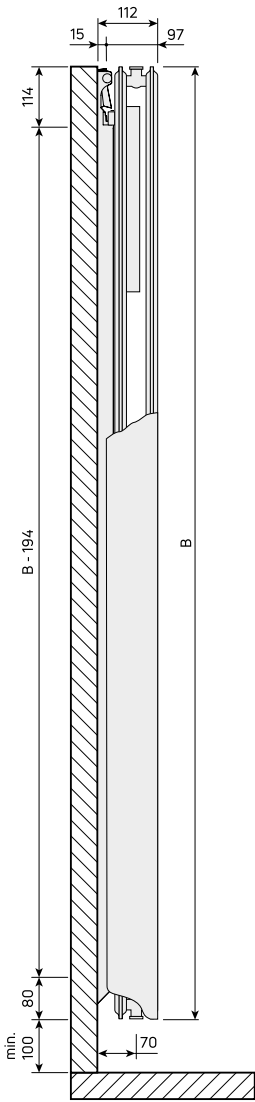


type 11, 21

Side views



type 11

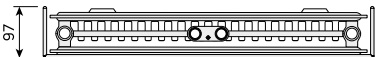


type 21

Bottom views



type 11



type 21

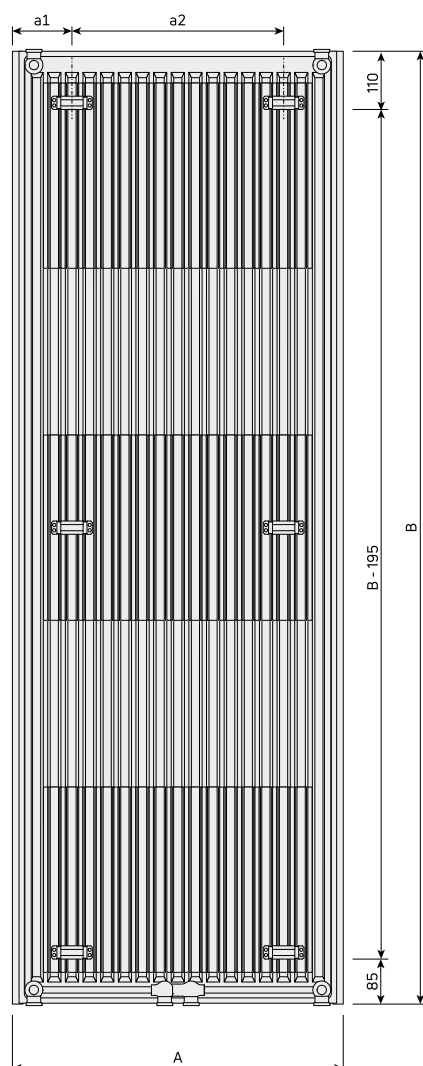
A = width
B = height

all dimensions in mm

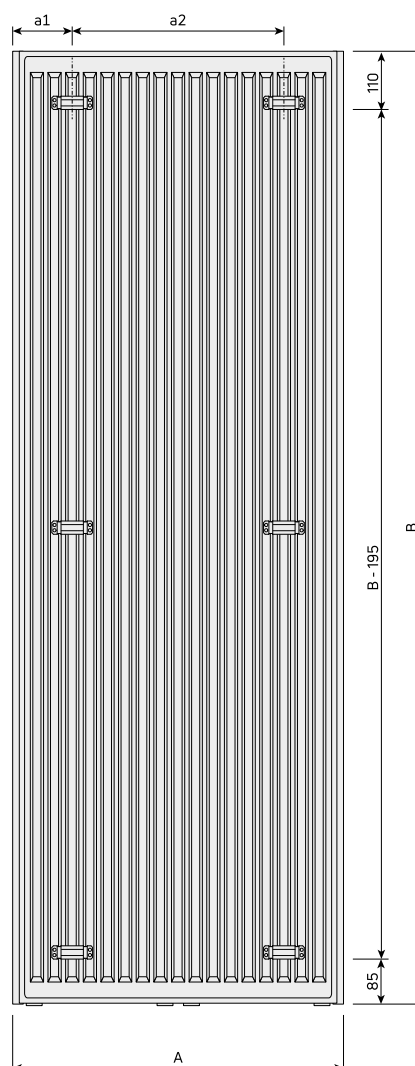


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Rear views without brackets type 11



Rear views without brackets type 21

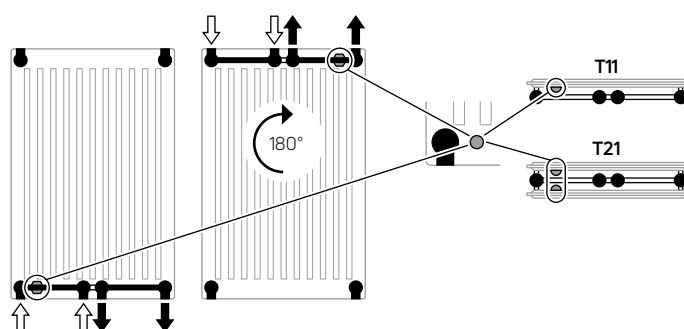


Mounting distances [mm] - type 11

A [mm]	325	475	625	775
a1 [mm]	112	120	112	120
a2 [mm]	100	234	400	534





Mounting distances [mm] - type 21

A [mm]	325	475	625	775
a1 [mm]	95	104	95	104
a2 [mm]	134	266	434	566



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Thermal output

type 11						
 A [mm]	 [°C]	 B [mm]		 [W]		
		1500	1800	1950	2100	2300
325	75/65/20 55/45/20	- -	720 378	767 403	- -	- -
475	75/65/20 55/45/20	- -	1042 546	1110 582	- -	- -
625	75/65/20 55/45/20	- -	1355 709	1444 755	1530 803	- -
775	75/65/20 55/45/20	- -	- -	1770 923	1876 980	- -





Thermal output of the radiators [W] in accordance with EN 442 for parameters: 75/65/20 °C ($\Delta T=50K$), 55/45/20 °C ($\Delta T=30K$) and 45/35/20 °C ($\Delta T=20K$).

[W] 45/35/20°C ($\Delta T=20K$)

type 11	1500	1800	1950	2100	2300
325	-	220	236	-	-
475	-	318	339	-	-
625	-	413	439	468	-
775	-	-	536	569	-

exponent n

type 11	1500	1800	1950	2100	2300
325	-	1,2623	1,2586	-	-
475	-	1,2645	1,2639	-	-
625	-	1,2667	1,2693	1,2624	-
775	-	-	1,2746	1,2716	-

type 21						
 A [mm]	 [°C]	 B [mm]		 [W]		
		1500	1800	1950	2100	2300
325	75/65/20 55/45/20	- -	955 495	1008 521	- -	- -
475	75/65/20 55/45/20	- -	1389 716	1466 756	- -	- -
625	75/65/20 55/45/20	- -	1812 930	1913 985	2012 1038	- -
775	75/65/20 55/45/20	- -	- -	2351 1207	2473 1276	- -

Thermal output of the radiators [W] in accordance with EN 442 for parameters: 75/65/20 °C ($\Delta T=50K$), 55/45/20 °C ($\Delta T=30K$) and 45/35/20 °C ($\Delta T=20K$).

[W] 45/35/20°C ($\Delta T=20K$)

type 21	1500	1800	1950	2100	2300
325	-	286	301	-	-
475	-	412	435	-	-
625	-	533	565	597	-
775	-	-	691	733	-



exponent n

type 21	1500	1800	1950	2100	2300
325	-	1,2876	1,2905	-	-
475	-	1,2965	1,2954	-	-
625	-	1,3054	1,3003	1,2952	-
775	-	-	1,3052	1,2961	-





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Water volume

[l]					
 A [mm]	 B [mm]				
	1500	1800	1950	2100	2300
type 11					
325	-	2,65	2,85	-	-
475	-	3,78	4,12	-	-
625	-	4,92	5,38	5,85	-
775	-	-	6,65	7,25	-
type 21					
325	-	4,80	5,20	-	-
475	-	7,23	7,80	-	-
625	-	9,67	10,40	11,13	-
775	-	-	13,00	13,90	-

Weight

[kg]					
 A [mm]	 B [mm]				
	1500	1800	1950	2100	2300
type 11					
325	-	20,15	21,60	-	-
475	-	28,42	30,40	-	-
625	-	36,68	39,20	41,90	-
775	-	-	48,00	51,35	-
type 21					
325	-	31,05	33,42	-	-
475	-	45,85	49,35	-	-
625	-	60,63	65,26	69,89	-
775	-	-	81,18	86,93	-



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Treatment and finish

Tinos V is made in accordance with EN 10130 of the cold rolled steel delivered in form of coiled strips. Heating panels are produced from sheets of thickness in accordance with EN 442. Forming of heating panels with vertical water channels spaced at 33,3 mm is performed on fully automated, computer controlled production lines where one process line (interconnected with roller conveyors) delivers products ready for painting and packing. The processes of coating and packing are automated as well.

Painting

After passing through the first stages of the process line, the raw radiators are subjected to further processing providing a surface ready for varnishing. This processing consists of:

- preparing the surface (washing, degreasing, iron phosphatising, flushing) in a washer with a special chemical showering system,
- priming with the second generation cataforetic KTL II method by complete submerging of the radiators in a white priming paint ensuring an excellent corrosion protection,
- after-priming drying in a dripping chamber and a gas tunnel dryer,
- powder painting with an epoxy paint by electrostatic coating in a painting chamber, with the use of special painting tools,
- polymerization (curing) of the powder paint coat in a gas furnace at a temperature of about 190 °C.

Packaging

Tinos V is supplied in protective cardboard box packaging. All packed in recyclable shrink wrap. A single radiator is placed on a wooden pallet and bound with a band in order to prevent uncontrolled movement during storage and transport.

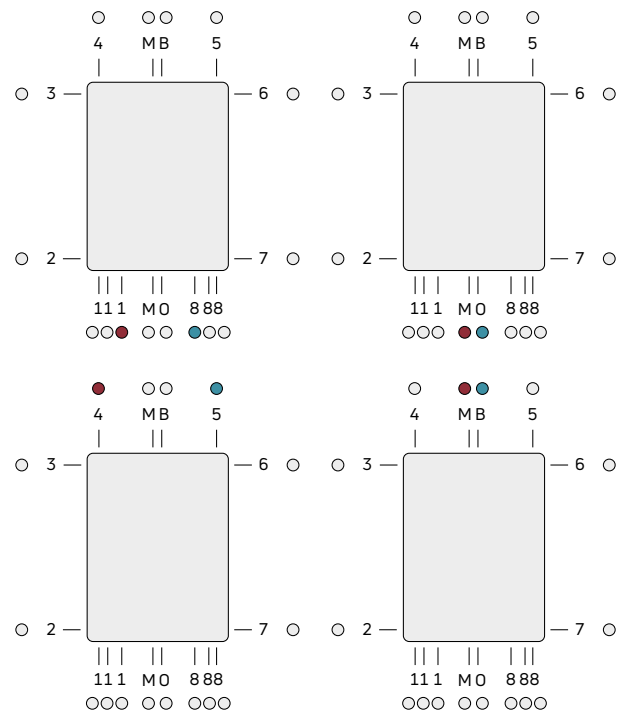
Colours

White RAL 9016 as a standard. Other colours from the RAL colour palette are available on request.

Mounting

The radiators are wall-mounted using 1 set of wall-mounting brackets.

Recommended connections (ETIM)



Standards

The heat output of the radiators, expressed in watts, are measured according to standard EN 442-2. The supply temperature is 75°C, the return temperature 65 °C and the ambient temperature is 20 °C.

Warranty

10 years



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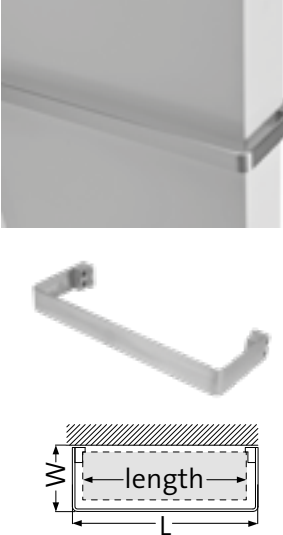
Accessories

	DESCRIPTION	ITEM
	Angled thermostatic valve set with design cover white - RAL 9016 chrome matt stainless steel	AZ13TP0048008330 AZ13TP004800853SCHRO AZ13TP004800873S0112
	Straight thermostatic valve set with design cover white - RAL 9016 chrome matt stainless steel	AZ13TP0048008430 AZ13TP004800863SCHRO AZ13TP004800883S0112
	Angled thermostatic valve set VHX-D/RAX white - RAL 9016 chrome	AZ1TP00VV00010A0 AZ1TP00VV00010ASCHRO
	Angled thermostatic valve set white - RAL 9016 chrome matt anthracite grey - RAL 7016 (S0022) matt jet black - RAL 9005 (S0029)	AZ1XTPS9037005N0 AZ1XTPS9037005NSCHRO AZ1XTPS9037005NS0022 AZ1XTPS9037005NS0029
	Straight thermostatic valve set white - RAL 9016 chrome matt anthracite grey - RAL 7016 (S0022) matt jet black - RAL 9005 (S0029)	AZ1XTPS9037004N0 AZ1XTPS9037004NSCHRO AZ1XTPS9037004NS0022 AZ1XTPS9037004NS0029



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Accessories

DESCRIPTION		ITEM
	Towel bar for Tinos V, matt brushed stainless steel L = 365, W = 128, for type 11 with length = 325 L = 515, W = 128, for type 11 with length = 475 L = 665, W = 128, for type 11 with length = 625 L = 815, W = 128, for type 11 with length = 775 L = 365, W = 153, for type 21 with length = 325 L = 515, W = 153, for type 21 with length = 475 L = 665, W = 153, for type 21 with length = 625 L = 815, W = 153, for type 21 with length = 775	AZ14BTTLT1132500 AZ14BTTLT1147500 AZ14BTTLT1162500 AZ14BTTLT1177500 AZ14BTTOT2132500 AZ14BTTOT2147500 AZ14BTTOT2162500 AZ14BTTOT2177500
	Towel bar for Tinos V, polished stainless steel (chrome look) L = 365, W = 128, for type 11 with length = 325 L = 515, W = 128, for type 11 with length = 475 L = 665, W = 128, for type 11 with length = 625 L = 815, W = 128, for type 11 with length = 775 L = 365, W = 153, for type 21 with length = 325 L = 515, W = 153, for type 21 with length = 475 L = 665, W = 153, for type 21 with length = 625 L = 815, W = 153, for type 21 with length = 775	AZ14BTTLT113250SSMBP AZ14BTTLT114750SSMBP AZ14BTTLT116250SSMBP AZ14BTTLT117750SSMBP AZ14BTTOT213250SSMBP AZ14BTTOT214750SSMBP AZ14BTTOT216250SSMBP AZ14BTTOT217750SSMBP

Tinos V are not equipped with a built-in thermostatic insert. They can be installed by using external valve sets with CC 50 mm. Selection of types provided in the table above.

Purmo Group reserves the right to change product specifications without prior notice.
Purmo Group's general sales and delivery conditions apply.

