Tunstall®
Established 1958

THERMOPANEL Radiators

January 2, 2014

Complete Radiator, Ready to Install!

Installation

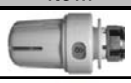
Thermopanel radiators are supplied complete with side panels, grille and brackets for wall mounting. The brackets are suitable for all types of walls, but it is advisable to check the strength of the wall before installation.
An extra bracket is enclosed with radiators whose length is over 1800 mm (70”). Assembly instructions are supplied in the box. We recommend that the protective packaging be left intact while construction is in progress.

Connection

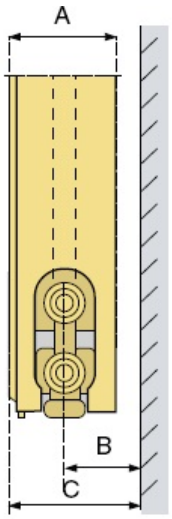
The patented V4 assembly has a bottom and side connection. The valve housing has a pre-assembled Macon insert suitable for a Macon self-contained non-electric thermostat #MTW-28 (maconcontrols.com). AR-MOD shut-offs connect directly to the built-in V-4 assembly (union x 1/2” female NPT). Each radiator comes with a built-in air vent.

Maximum Working Pressure: 145 PSI
Cv for Thermopanel Valve System = .65 PSI
Suggested Maximum PD per Radiator = 2.2 PSI
Color: RAL 9016 White; Powder Paint with Epoxy-Polyester

Type 22	RADIATOR HEIGHT in MM (In.)				
Length in MM (In.)	300 (12")	400 (16")	500 (20")	600 (24")	900 (36")
400 (16")	$314	$336	$365	$380	$463
700 (28")	$365	$403	$443	$470	$597
900 (36")	$406	$455	$505	$560	$690
1000 (40")	$426	$480	$548	$579	$740
1200 (48")	$467	$528	$598	$679	$839
1300 (52")	$496	$565	$656	$717	$899
1600 (64")	$561	$642	$758	$840	$1,050
1800 (72")	$624	$712	$841	$906	
2000 (80")	$665	$767	$912	$982	
2300 (92")	$740	$856	$975	$1,099	
2600 (104")	$784	$914	$1,049	$1,203	
3000 (120")	$896	$1,046	$1,200	$1,370	

Item	Part #	Description	List
	MTW-28	Direct Mount, Built in Sensor	$62
	MFK	Tamper Resistant Cover for MTW-28 *	$38
	AR-MOD	AR Shut-Off 1/2" NPT #6290136	$28
	WTP-MFK	Adapter for MTW-28 #4037301 **	$19
	PFB-TP22	Pedestal Floor Bracket *	$32
* Optional			
** Only required if using MFK			

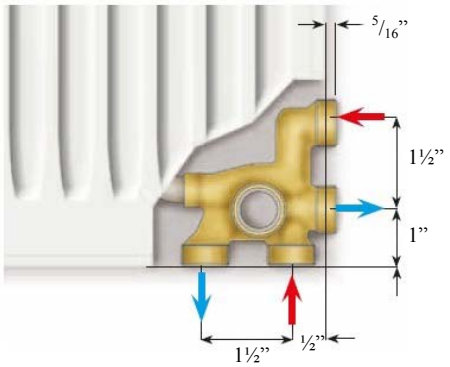
Distance from wall to radiator: C minus A.



Installed Measurements

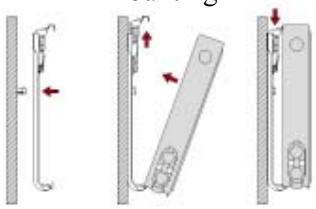
Radiator type	A Radiator depth	B Center of Connection to wall	C Installed depth
TP 22	102mm (4”)	81mm (3⅛”)	132mm (5¼”)

Connection measurements



With the V4 assembly, you can choose either bottom or side connection.

Mounting



Thermopanel is supplied complete with brackets for hanging.

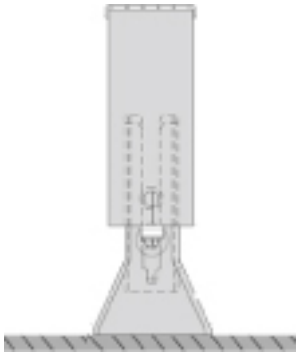
Tunstall Corporation
118 Exchange Street, Chicopee, MA 01013 ● Phone (413) 594-8695 ● Toll Free (800) 423-5578 ● Fax (413) 598-8109
www.tunstall-inc.com

Tunstall®
Established 1958

THERMOPANEL Radiators

January 2, 2014

Simple and ideal flexibility - The TP 22-V4 radiator can be fed from either left or right just by turning the radiator around. The front and back are identical.



Adjustable floor supports available (optional). #PFB-TP22 shown above

Thermopanel Ratings* based on 190°EWT and 170°LWT, 68°F EAT

MODEL: TP 22 - BTU's						Factors for various Average Water Temperatures (AWT)					
Length in MM (In.)	RADIATOR HEIGHT in MM (In.)					AWT (°F)	BTU	Factor			BTU / Radiator
	300 (12")	400 (16")	500 (20")	600 (24")	900 (36")						
400 (16")	1,748	2,225	2,684	3,127	4,389	190°	8,053	x	1.12	=	9,019
700 (28")	3,059	3,894	4,698	5,472	7,680	180°	8,053	x	1.00	=	8,053
900 (36")	3,933	5,007	6,040	7,035	9,874	170°	8,053	x	0.88	=	7,087
1000 (40")	4,370	5,563	6,711	7,817	10,971	160°	8,053	x	0.76	=	6,120
1200 (48")	5,244	6,676	8,053	9,380	13,166	150°	8,053	x	0.66	=	5,315
1300 (52")	6,118	7,789	9,395	10,944	15,360	140°	8,053	x	0.55	=	4,429
1600 (64")	6,992	8,901	10,737	12,507	17,554	130°	8,053	x	0.46	=	3,704
1800 (72")	7,866	10,014	12,079	14,070		**Example: TP22-512 (20"H x 48"L)**					
2000 (80")	8,740	11,127	13,421	15,634		8,053 BTU @ 190° EWT, 20° Δ T = 180° AWT					
2300 (92")	10,051	12,796	15,435	17,979	N/A	Pressure Drop formula @ 1.0 gpm, 20° Δ T					
2600 (104")	11,362	14,464	17,448	20,324		1 GPM = 10,000 BTU/hr based on 20° temperature drop					
3000 (120")	13,111	16,690	20,132	23,451		$PD = (GPM/Cv)^2$					
						GPM : 8,053 btu ÷ 10,000 = .8053 GPM					
						Cv = .65 per radiator					
						$PD = (.8053/.65)^2 = (1.24 \times 1.24) = 1.54$ pressure drop					

*These are ISO (International Organization for Standardization) Ratings and do not include the heating effect of 15% additional output when installed on an outside wall. IBR ratings already have this 15% heating effect included in their rating.

Tunstall Corporation
118 Exchange Street, Chicopee, MA 01013 ● Phone (413) 594-8695 ● Toll Free (800) 423-5578 ● Fax (413) 598-8109
www.tunstall-inc.com