

All dimensions shown are in millimetres

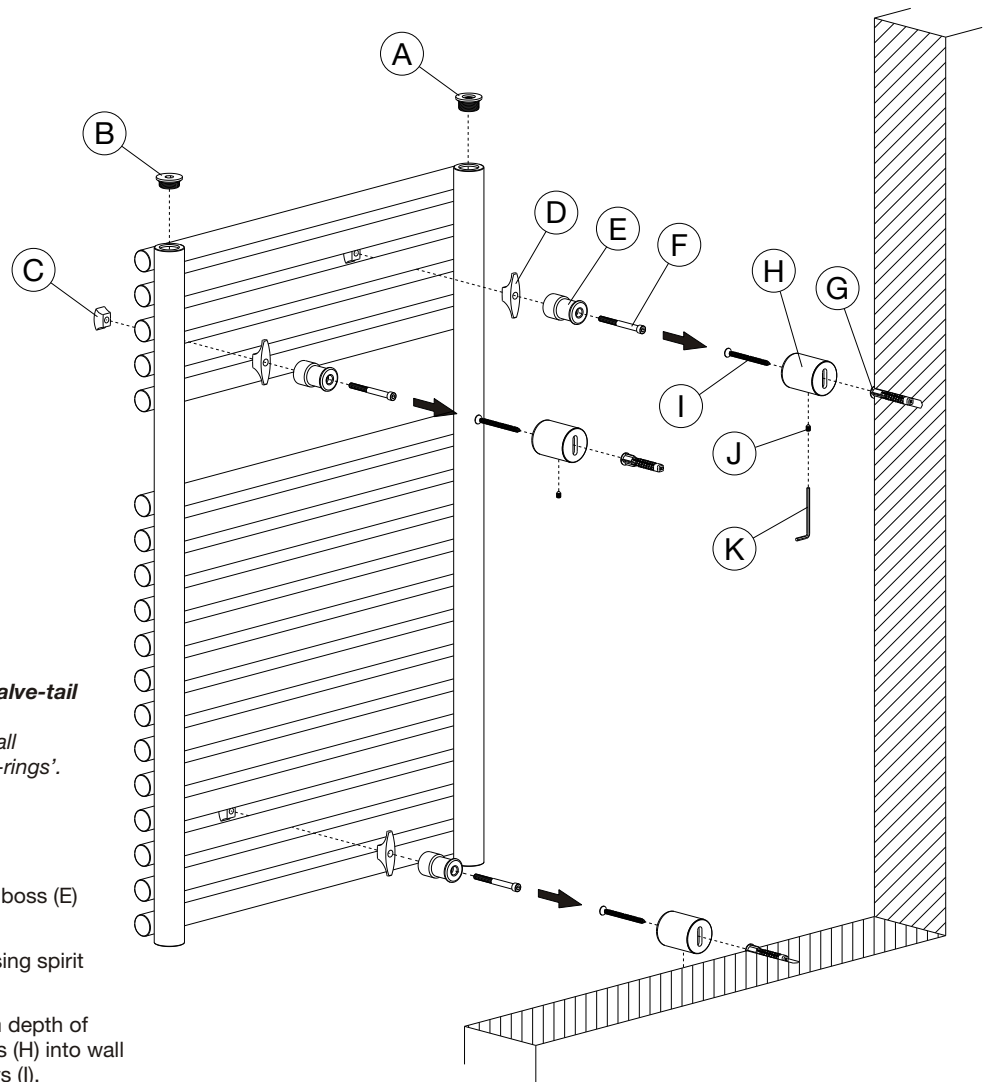
Test pressure: **10 BAR**  
 Max working pressure: **3 BAR**  
 Max working temperature: **95° C**  
 All steel construction: **dia 22mm x 1.5mm tubes**  
**dia 30mm x 1.5mm headers**  
 Connections: **½ inch BSP underside tappings**

For optional **Supplementary Heater** see separate sheet as fitting this will affect pipe centres. Please check before drilling.

**Not suitable for use on domestic hot water system**

Model	Output* ΔT=50K Watts	Output* ΔT=60K Watts	Water Content litres	Weight kg	Height ± 2mm	Length ± 2mm	Tapping Centres ± 2mm	Fixing Centres ± 2mm
TT 70-45	329	416	3.3	7	716	450	420	540
TT 115-45	515	651	5.1	10	1148	450	420	972
TT 140-45	607	768	6.1	12	1400	450	420	1224
TT 70-50	417	527	3.5	7	716	500	470	540
TT 115-50	639	808	5.5	11	1148	500	470	972
TT 140-50	753	952	6.6	13	1400	500	470	1224
TT 70-60	461	583	4.1	8	716	600	570	540
TT 115-60	708	896	6.4	13	1148	600	570	972
TT 140-60	835	1056	7.6	15	1400	600	570	1224
TT 70-75	655	829	4.9	10	716	750	720	540
TT 115-75	1021	1291	7.6	15	1148	750	720	972
TT 140-75	1203	1522	9.1	18	1400	750	720	1224

\* for chrome finish reduce shown output by 20%



### Assembly Instructions

**Sufficient PTFE tape must be applied to valve-tail threads prior to their installation.**

*Silicone thread sealant should be applied to all threaded components manufactured with 'O-rings'.*

Fit valve tails, using correct size Allen key.

Fit air vent (A) & blanking plug (B).

Assemble outer clamp (C), inner clamp (D) & boss (E) on radiator with screw (F).

Accurately mark out bracket holes on wall using spirit level.

Drill three 8mm diameter holes to a minimum depth of 65mm & insert wall plugs (G). Screw brackets (H) into wall plugs (G) with 5mm diameter x 60mm screws (I).

Offer radiator up to wall and slide boss (E) into bracket (H).

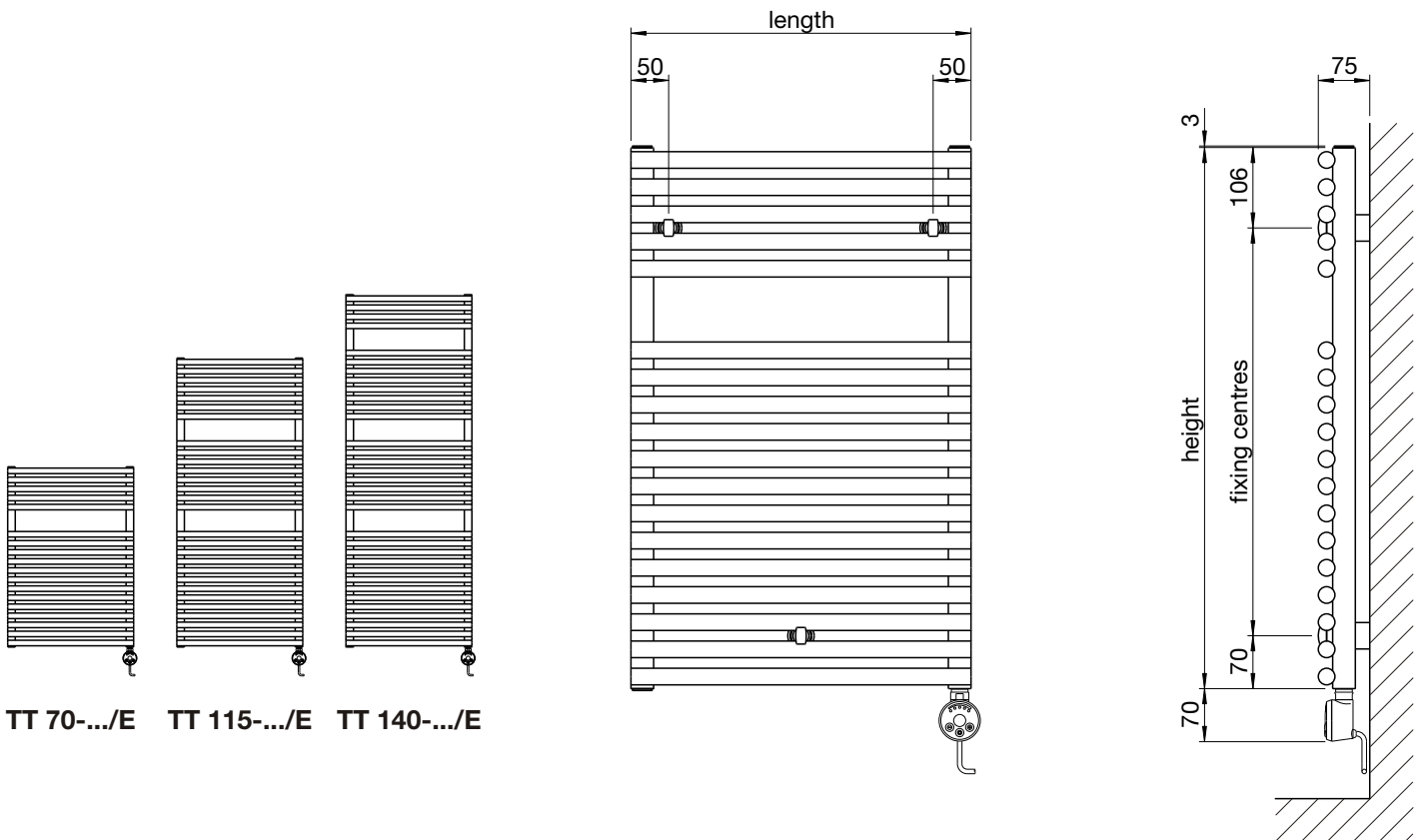
Secure in position by tightening grub screw (J) with Allen key (K).

Plumb radiator to heating circuit with flow opposite air vent.

### Tools & Material Required

Suitable valves  
PTFE tape  
Silicone thread sealant  
Tape measure  
Allen key - 4mm  
Allen key - 12mm (when installing Polar Bear valves)  
Adjustable spanner  
Screwdriver - crosshead  
Electric drill  
Masonry drill bit - 8mm diameter  
Spirit level

Key	Component	Qty
A	Air Vent - 1/2"	1
B	Blanking Plug	1
C	Clamp - Outer	3
D	Clamp - Inner	3
E	Boss	3
F	Screw - Skt Head, M5 x 55mm	3
G	Wall Plug	3
H	Bracket	3
I	Screw - Csk Head, 5mm dia x 60mm	3
J	Grub Screw	3
K	Allen Key	1
L	Air Vent Key	1



TT 70-.../E TT 115-.../E TT 140-.../E

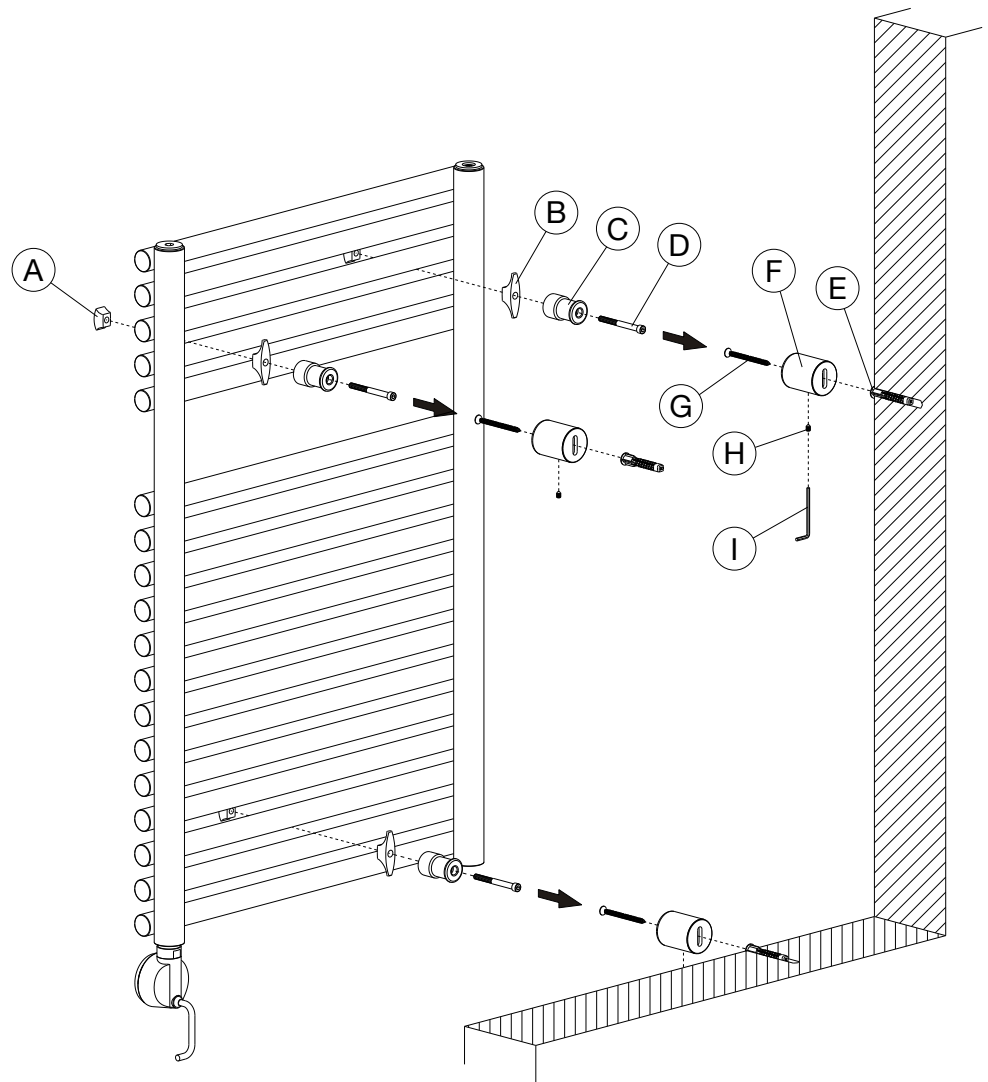
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All steel construction: **dia 22mm x 1.5mm tubes**  
**dia 30mm x 1.5mm headers**

Connections: **1.2m long flying lead (3 core)**

Immersion heater rating: **IPX4 or better**

Model	Output		Chrome Finish Output		Weight kg	Height ± 2mm	Length ± 2mm	Fixing Centres ± 2mm
	Watts	BTU	Watts	BTU				
TT 70-45/E	300	1023	300	1023	10	716	450	540
TT 115-45/E	600	2046	300	1023	15	1148	450	972
TT 140-45/E	600	2046	600	2046	18	1400	450	1224
TT 70-50/E	300	1023	300	1023	11	716	500	540
TT 115-50/E	600	2046	600	2046	17	1148	500	972
TT 140-50/E	600	2046	600	2046	20	1400	500	1224
TT 70-60/E	600	2046	300	1023	12	716	600	540
TT 115-60/E	600	2046	600	2046	19	1148	600	972
TT 140-60/E	600	2046	600	2046	23	1400	600	1224
TT 70-75/E	600	2046	600	2046	15	716	750	540
TT 115-75/E	1000	3410	600	2046	23	1148	750	972
TT 140-75/E	1000	3410	1000	3410	27	1400	750	1224



### Assembly Instructions

Assemble outer clamp (A), inner clamp (B) & boss (C) on radiator with screw (D).

Accurately mark out bracket holes on wall using spirit level.

Drill three 8mm diameter holes to a minimum depth of 65mm & insert wall plugs (E).  
Screw brackets (F) into wall plugs (E) with 5mm diameter x 60mm screws (G).

Offer radiator up to wall and slide boss (C) into bracket (F).

Secure in position by tightening grub screw (H) with Allen key (I).

### Tools & Material Required

Tape measure  
Allen key - 4mm  
Screwdriver - crosshead  
Electric drill  
Masonry drill bit - 8mm diameter  
Spirit level  
Stepladder (for taller radiators)

Key	Component	Qty
A	Clamp - Outer	3
B	Clamp - Inner	3
C	Boss	3
D	Screw - Skt Head, M5 x 55mm	3
E	Wall Plug	3
F	Bracket	3
G	Screw - Csk Head, 5mm dia x 60mm	3
H	Grub Screw	3
I	Allen Key	1