



Centara & Centara Plan

Heavy-duty energy saving steel panel radiators



- *Central underside connections*
- *Outputs tested to EN442*
- *Compatible with gas, oil and electric boilers*
- *Supplied complete with welded side panels, top grille, wall brackets, plugs and air vent*

Types: 20, 21, 22 & 33

Material: 1.2mm steel
(0.5mm aluminium front plate on Centara Plan)

Finish: RAL 9016 Traffic White

Heights: 350 - 900mm

Lengths: 400 - 2000mm

Models: 112

Outputs: 322- 3334 watts

Pressure: 6 bar (8 bar test)



10
TEN YEAR
WARRANTY

Centara & Centara Plan

Built for the commercial environment



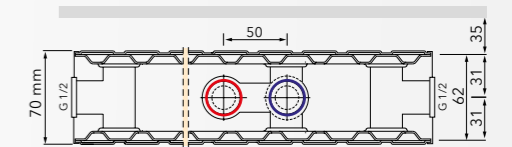
The Centara radiator range is manufactured from 1.2mm steel (plus a 0.5mm aluminium front plate on the Centara Plan) and is available in RAL 9016 Traffic White as standard, with other colours available on request.

Supplied complete with wall brackets, plug and air vent, welded side panels and top grille as standard, the Centara/Centara Plan radiator has a 6 bar maximum working pressure (8 bar test). The Centara/Centara Plan is supplied with underside 50mm connections. All models are supplied with welded side panels, which, combined with optional top grille security clips, make it the perfect radiator for high-traffic environments such as schools and hospitals. The MHS Centara/Centara Plan carries a 10-year guarantee against manufacturing defects.

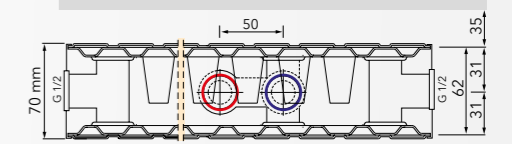
Centara Centara Plan



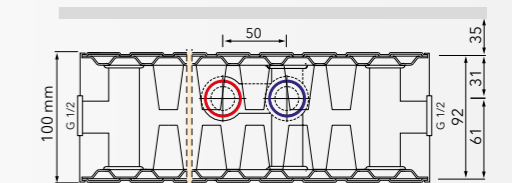
Type 20 Depth 70mm



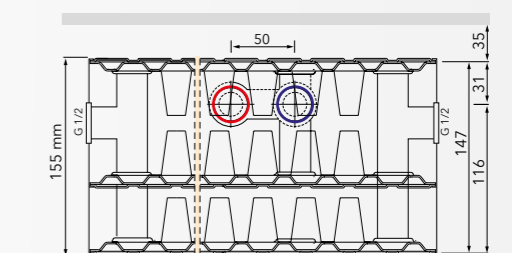
Type 21 Depth 70mm



Type 22 Depth 100mm



Type 33 Depth 155mm

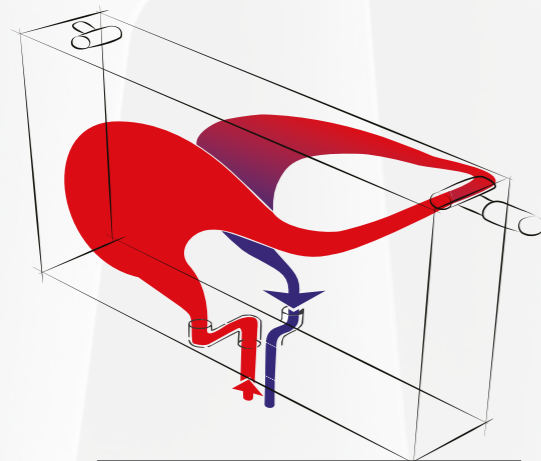
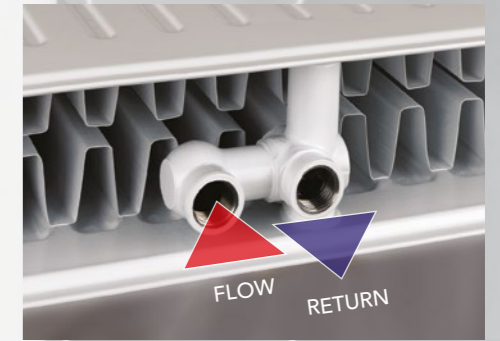


Centara technology

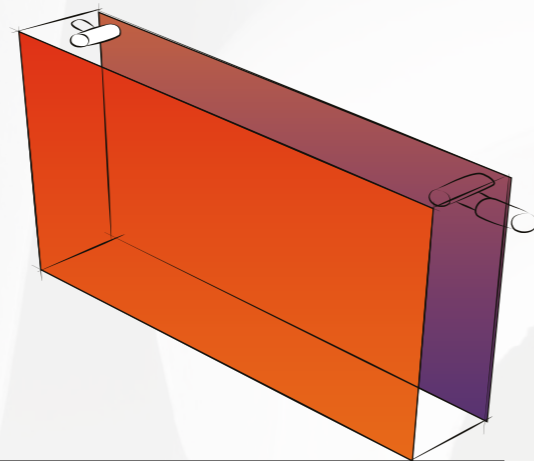
The Centara radiator is cleverly designed to reduce heat loss through the wall, allowing it to deliver more radiant heat than traditional radiators. As a result, the Centara provides end users with the same levels of comfort whilst lowering the thermostat by 1 degree, returning a 5% energy saving.

Centara connections

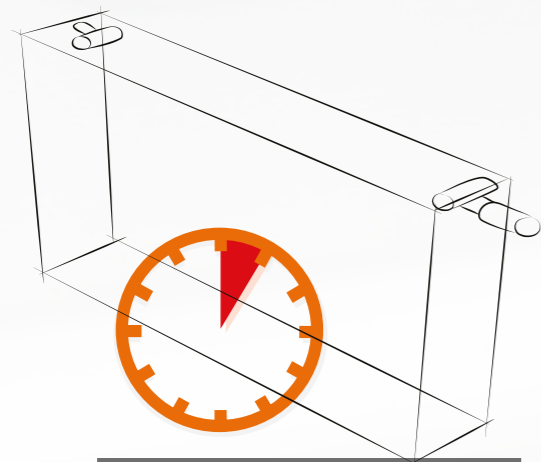
Important note: The Centara must only be installed with the flow on the left (see diagram below). The special Centara air vent supplied by MHS must be installed, while the TRV head can be fitted on either side.



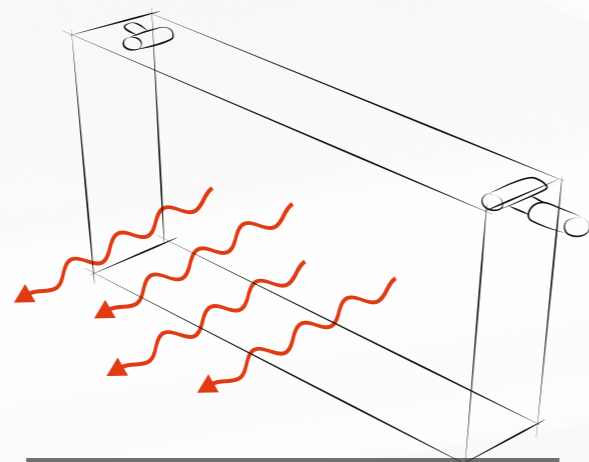
The front panel of the radiator is prioritised



Energy consumption and heat loss through the wall are reduced

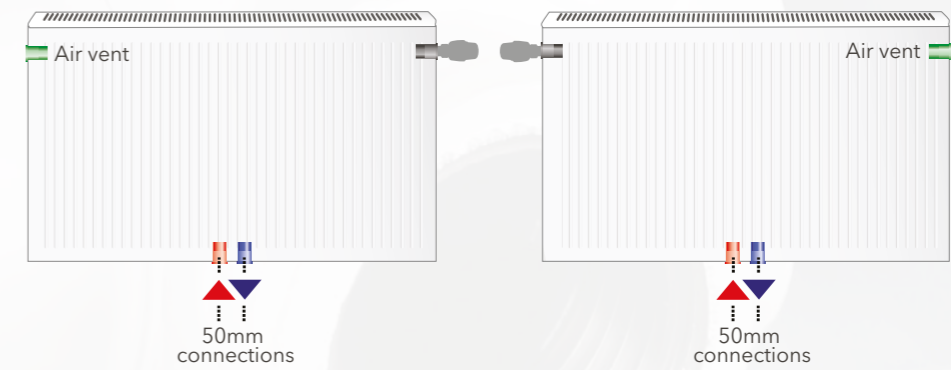


Rapid heat up times



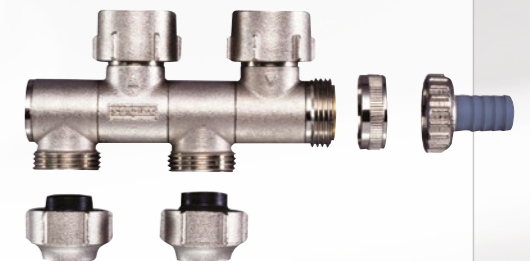
More radiation, less convection

Underside connection



Connect with Variocon

All radiators in the Centara range can utilise the MHS Variocon valve set. This can swivel for angled, through the wall connections or can simply come up from the floor for straight connections - making specification / installation considerably easier.



Variocon valve

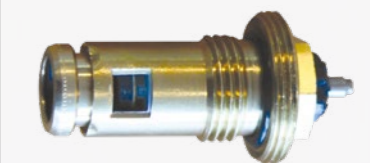
The Variocon valve can be supplied with connections suitable for either 15mm copper pipe or 1/2" steel pipe. An optional hose drain union can be supplied to allow the radiator to be drained without disconnecting from the system. The Variocon valve set can be ordered with either a chrome or a white TRV head.



White TRV head

TRV insert

Every Variocon kit is equipped with a pre-set valve insert, which enhances the efficiency of the system and reduces energy consumption.



Centara Data

350mm High						
Model	Type 21		Type 22		Type 33	
Width mm	Code	Output Watts	Code	Output Watts	Code	Output Watts
600	C21-3506	522	-	-	-	-
800	C21-3508	696	C22-3508	910	C33-3508	1334
1000	C21-3510	870	C22-3510	1137	C33-3510	1667
1200	C21-3512	1044	C22-3512	1364	C33-3512	2000
1400	C21-3514	1218	C22-3514	1592	C33-3514	2334
1600	C21-3516	1392	C22-3516	1819	C33-3516	2667
1800	C21-3518	1566	C22-3518	2047	C33-3518	3001
2000	C21-3520	1740	C22-3520	2274	C33-3520	3334
Weight kg/metre	20.50		24.40		35.60	
Water cont. litres/metre	2.80		2.80		4.10	



Centara Data

500mm High								
Model	Type 20		Type 21		Type 22		Type 33	
Width mm	Code	Output Watts	Code	Output Watts	Code	Output Watts	Code	Output Watts
400	C20-5004	322	C21-5004	413	C22-5004	515	-	-
500	C20-5005	403	C21-5005	517	C22-5005	644	-	-
600	C20-5006	483	C21-5006	620	C22-5006	772	C33-5006	1166
700	-	-	C21-5007	723	C22-5007	901	-	-
800	C20-5008	644	C21-5008	826	C22-5008	1030	C33-5008	1554
900	-	-	C21-5009	930	C22-5009	1158	C33-5009	1749
1000	C20-5010	805	C21-5010	1033	C22-5010	1287	C33-5010	1943
1200	C20-5012	966	C21-5012	1240	C22-5012	1544	C33-5012	2332
1400	-	-	C21-5014	1446	C22-5014	1802	C33-5014	2720
1600	-	-	C21-5016	1653	C22-5016	2059	-	-
1800	-	-	-	-	C22-5018	2317	-	-
2000	-	-	-	-	C22-5020	2574	-	-
Weight kg/metre	21.90		25.20		29.30		43.40	
Water cont. litres/metre	3.60		3.60		3.60		5.80	

600mm High								
Model	Type 20		Type 21		Type 22		Type 33	
Width mm	Code	Output Watts	Code	Output Watts	Code	Output Watts	Code	Output Watts
400	C20-6004	367	C21-6004	477	C22-6004	614	-	-
500	C20-6005	459	C21-6005	596	C22-6005	768	-	-
600	C20-6006	550	C21-6006	715	C22-6006	922	C33-6006	1289
700	-	-	C21-6007	834	C22-6007	1075	-	-
800	C20-6008	734	C21-6008	954	C22-6008	1229	C33-6008	1718
900	-	-	C21-6009	1073	C22-6009	1382	C33-6009	1933
1000	C20-6010	917	C21-6010	1192	C22-6010	1536	C33-6010	2148
1200	C20-6012	1100	C21-6012	1430	C22-6012	1843	C33-6012	2578
1400	-	-	C21-6014	1669	C22-6014	2150	C33-6014	3007
1600	-	-	C21-6016	1907	C22-6016	2458	-	-
1800	-	-	-	-	C22-6018	2765	-	-
2000	-	-	-	-	C22-6020	3072	-	-
Weight kg/metre	26.10		30.40		37.40		51.50	
Water cont. litres/metre	4.40		4.40		4.40		6.70	

900mm High								
Model	Type 20		Type 21		Type 22		Type 33	
Width mm	Code	Output Watts	Code	Output Watts	Code	Output Watts	Code	Output Watts
400	C20-9004	515	C21-9004	588	C22-9004	771	-	-
500	-	-	C21-9005	736	C22-9005	964	C33-9005	1384
600	C20-9006	773	C21-9006	883	C22-9006	1157	C33-9006	1661
700	-	-	C21-9007	1030	C22-9007	1350	C33-9007	1938
800	-	-	C21-9008	1177	C22-9008	1542	C33-9008	2214
900	-	-	-	-	C22-9009	1735	C33-9009	2491
1000	-	-	C21-9010	1471	C22-9010	1928	C33-9010	2768
1200	-	-	-	-	C22-9012	2314	-	-
Weight kg/metre	40.80		43.10		49.40		73.00	
Water cont. litres/metre	6.40		6.40		6.40		9.60	

Centara Plan Data

350mm High						
Model	Type 21		Type 22		Type 33	
Width mm	Code	Output Watts	Code	Output Watts	Code	Output Watts
600	CTP21-3506	468	-	-	-	-
800	CTP21-3508	624	CTP22-3508	833	CTP33-3508	1153
1000	CTP21-3510	780	CTP22-3510	1041	CTP33-3510	1441
1200	CTP21-3512	936	CTP22-3512	1249	CTP33-3512	1729
1400	CTP21-3514	1092	CTP22-3514	1457	CTP33-3514	2017
1600	CTP21-3516	1248	CTP22-3516	1666	CTP33-3516	2306
1800	CTP21-3518	1404	CTP22-3518	1874	CTP33-3518	2594
2000	CTP21-3520	1560	CTP22-3520	2082	CTP33-3520	2882
Weight kg/metre	21.3		25.20		36.40	
Water cont. litres/metre	2.80		2.80		4.10	



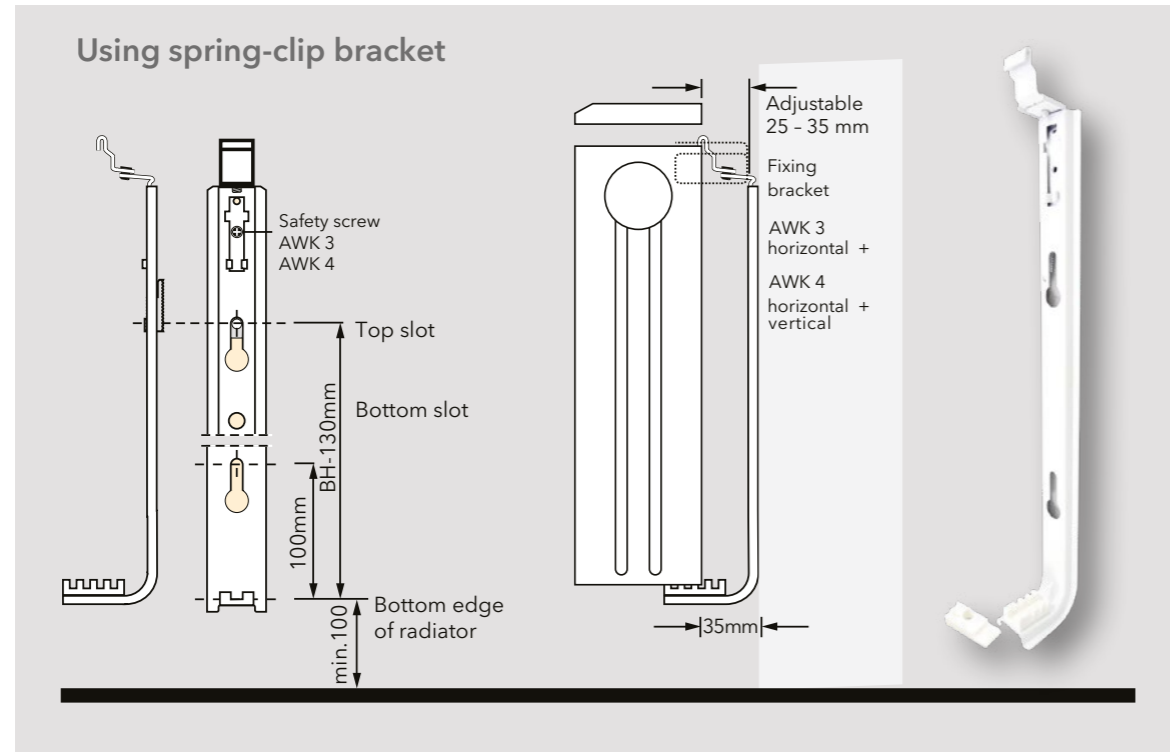
Centara Plan Data

500mm High								
Model	Type 20		Type 21		Type 22		Type 33	
Width mm	Code	Output Watts	Code	Output Watts	Code	Output Watts	Code	Output Watts
400	CTP20-5004	308	CTP21-5004	375	CTP22-5004	514	-	-
500	CTP20-5005	385	CTP21-5005	469	CTP22-5005	643	-	-
600	CTP20-5006	461	CTP21-5006	562	CTP22-5006	771	CTP33-5006	1045
700	-	-	CTP21-5007	656	CTP22-5007	900	-	-
800	CTP20-5008	615	CTP21-5008	750	CTP22-5008	1028	CTP33-5008	1394
900	-	-	CTP21-5009	843	CTP22-5009	1157	CTP33-5009	1568
1000	CTP20-5010	769	CTP21-5010	937	CTP22-5010	1285	CTP33-5010	1742
1200	CTP20-5012	923	CTP21-5012	1124	CTP22-5012	1542	CTP33-5012	2090
1400	-	-	CTP21-5014	1312	CTP22-5014	1799	CTP33-5014	2439
1600	-	-	CTP21-5016	1499	CTP22-5016	2056	-	-
1800	-	-	-	-	CTP22-5018	2313	-	-
2000	-	-	-	-	CTP22-5020	2570	-	-
Weight kg/metre	23.00		26.30		30.40		44.40	
Water cont. litres/metre	3.60		3.60		3.60		5.80	

600mm High								
Model	Code	Output Watts	Code	Output Watts	Code	Output Watts	Code	Output Watts
400	CTP20-6004	361	CTP21-6004	441	CTP22-6004	577	-	-
500	CTP20-6005	452	CTP21-6005	552	CTP22-6005	722	-	-
600	CTP20-6006	542	CTP21-6006	662	CTP22-6006	866	CTP33-6006	1159
700	-	-	CTP21-6007	772	CTP22-6007	1010	-	-
800	CTP20-6008	722	CTP21-6008	882	CTP22-6008	1154	CTP33-6008	1546
900	-	-	CTP21-6009	993	CTP22-6009	1299	CTP33-6009	1739
1000	CTP20-6010	903	CTP21-6010	1103	CTP22-6010	1443	CTP33-6010	1932
1200	CTP20-6012	1084	CTP21-6012	1324	CTP22-6012	1732	CTP33-6012	2318
1400	-	-	CTP21-6014	1544	CTP22-6014	2020	CTP33-6014	2705
1600	-	-	CTP21-6016	1765	CTP22-6016	2309	-	-
1800	-	-	-	-	CTP22-6018	2597	-	-
2000	-	-	-	-	CTP22-6020	2886	-	-
Weight kg/metre	27.50		31.80		36.10		52.90	
Water cont. litres/metre	4.40		4.40		4.40		6.70	

900mm High								
Model	Code	Output Watts	Code	Output Watts	Code	Output Watts	Code	Output Watts
400	CTP20-9004	487	CTP21-9004	582	CTP22-9004	768	-	-
500	-	-	CTP21-9005	727	CTP22-9005	960	CTP33-9005	1242
600	CTP20-9006	730	CTP21-9006	872	CTP22-9006	1151	CTP33-9006	1490
700	-	-	CTP21-9007	1018	CTP22-9007	1343	CTP33-9007	1738
800	-	-	CTP21-9008	1163	CTP22-9008	1535	CTP33-9008	1986
900	-	-	-	-	CTP22-9009	1727	CTP33-9009	2235
1000	-	-	CTP21-9010	1454	CTP22-9010	1919	CTP33-9010	2483
1200	-	-	-	-	CTP22-9012	2303	-	-
1400	-	-	-	-	-	-	-	-
Weight kg/metre	42.80		45.10		51.40		75.00	
Water cont. litres/metre	6.40		6.40		6.40		9.60	

Centara/Centara Plan wall mounting



Instructions for wall mounting using spring-clip brackets

All Centara radiators can be quickly and securely mounted using spring-clip brackets.

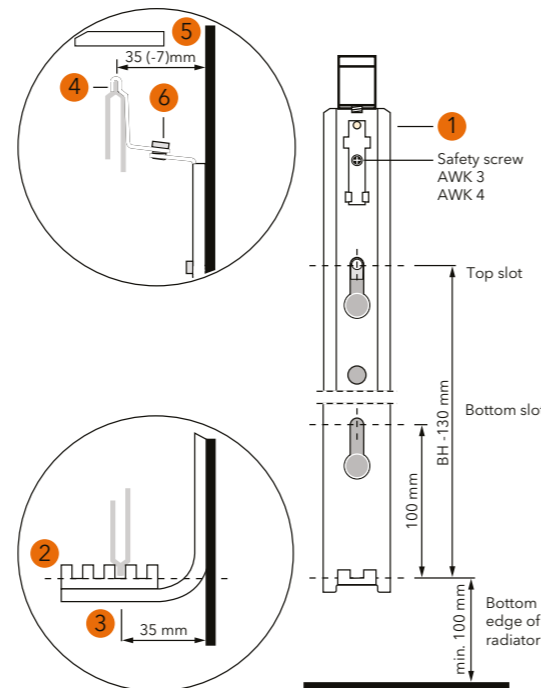
1. The spring-clip brackets are fastened vertically to the wall and aligned so they are level using the slots.
2. The radiator (with the top grille removed) is fitted to the plastic slots at the bottom.
3. We recommend the second slot from the wall, which corresponds to a wall spacing at the bottom of 35mm (the wall spacing at the top is set as appropriate in the factory).
4. The top clip is engaged so that it fully encloses the edge of the radiator and the radiator is securely attached to the wall by the spring-action.
5. The top grille is fitted.

6. The top catch can be adjusted to compensate for unevenness on the wall.

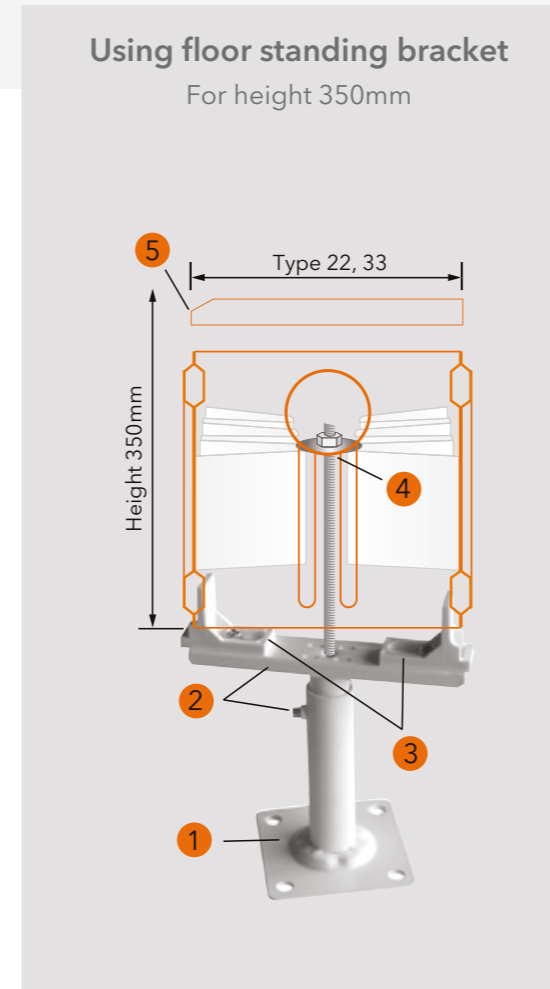
Mounting in packed state (optional)
For fastening the radiator to the wall in the packed state we recommend the usage of the pre-installation adapter.

Cleaning instructions
The top grille fitted to the radiators - with factory-welded retaining clips - can be removed straightforwardly for cleaning (without tools).

Anti-lifting feature (optional)
Undesirable removal of the top grille can be prevented using the anti-lifting feature. Ideally for use in schools, public buildings and also rooms for children.



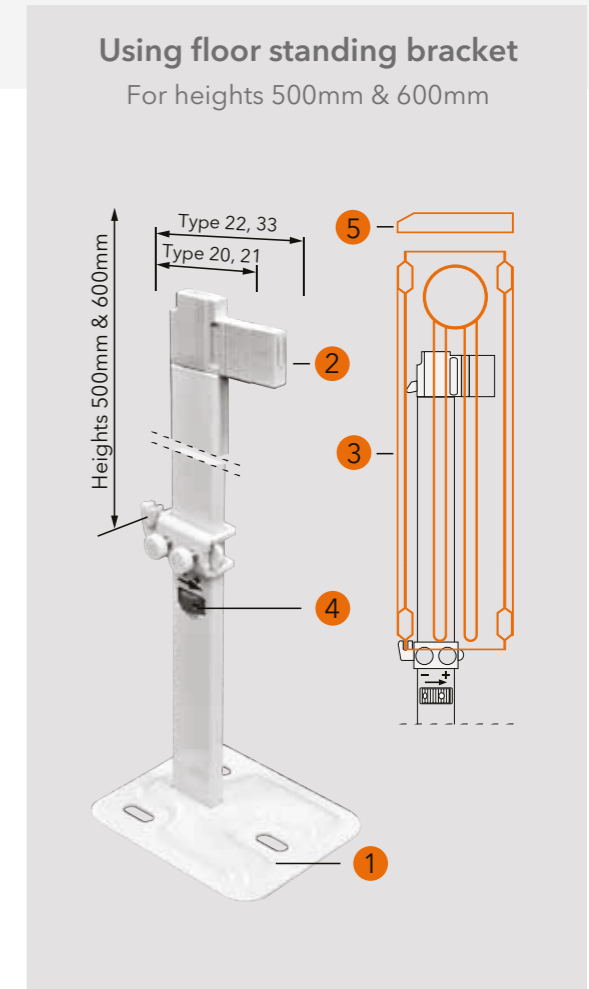
Centara/Centara Plan floor mounting



1. The bottom parts of the floor standing bracket are positioned on the floor and fastened.
2. The top parts of the floor standing bracket are locked in the bottom part at the required height.
3. The plastic blocks are adjusted and the radiator is (without top grille) fitted.
4. With the aid of the threaded rod the washer is pressed onto the fins and the radiator is locked in this manner.
5. The top grille is fitted.

The floor standing bracket is available in two versions for finished floors (125 - 185 mm) or bare floors (185 - 285 mm) and is suitable for the height 350mm.

For each floor standing bracket there is a matching trim cover.



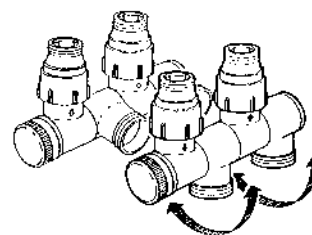
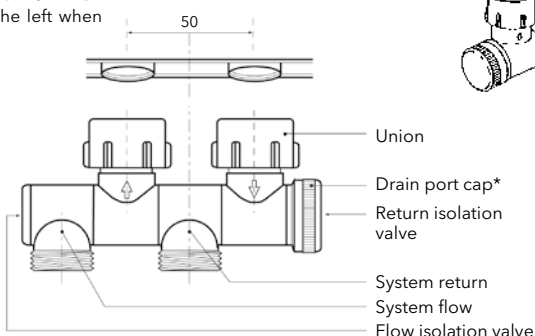
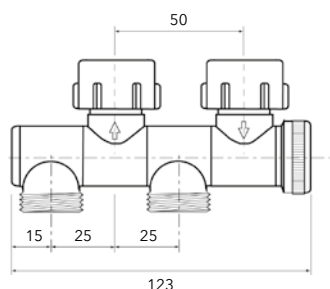
1. The floor standing brackets are positioned on the floor and fastened.
2. If necessary, the plastic top part is shortened to suit the related types.
3. The radiator (without top grille) is fitted.
4. The radiator is clamped using the fixing fitting.
5. The top grille is fitted.

The floor standing bracket is available in two versions for finished floors and bare floors and is suitable for the heights 500 and 600mm.

There is a matching trim cover for the floor standing bracket.

Variocon connection

The Variocon connections are positioned centrally on each radiator. For the pipework centres when using the Variocon, set 25mm off centre to the left. The flow connection is always on the left when using the Variocon valve (when viewed from the front).



Variocon fitting with swivel connections allowing variable connection positions

*A hose union assembly (supplied as an optional extra) is required to effect draining.

System pipework connector options



15mm compression for copper tube supplied as standard



1/2" BSP for threaded steel tube

ΔT	CF	ΔT	CF
60	1.267	41	0.773
59	1.240	40	0.748
58	1.213	39	0.724
57	1.186	38	0.700
56	1.159	37	0.676
55.5	1.145	36	0.652
55	1.132	35	0.629
54	1.105	34	0.606
53	1.079	33	0.583
52	1.052	32	0.560
51	1.026	31	0.537
50	1.000	30	0.515
49	0.974	29	0.493
48	0.948	28	0.471
47	0.923	27	0.449
46	0.897	26	0.427
45	0.872	25	0.406
44	0.847	24	0.385
43	0.822	23	0.364
42	0.797	22.5	0.354

Correction factor table

The outputs shown within this brochure are based on BS EN442. BS EN442 specifies that all outputs must be stated at $\Delta T 50^{\circ}\text{C}$, which is based on $75-65-20^{\circ}\text{C}$ operating conditions.

The ΔT is calculated by taking the mean water temperature and deducting the ambient air temperature.

For example, a typical air-source heat pump system will have flow temperatures of 45°C and return temperatures of 40°C . With an ambient air temperature of 20°C , this means the system is operating at $\Delta T 22.5^{\circ}\text{C}$.

To calculate the output of a radiator at operating conditions other than $\Delta T 50^{\circ}\text{C}$, multiply the listed output by the correction factors shown in the table on the left.

Water treatment: These products are for use on closed heating systems only; they are not suitable for installation on secondary HWS circuits. On completion of the installation the entire system must be thoroughly cleaned and flushed to remove debris/flus residues etc. If a chemical cleaner is used, it must be thoroughly flushed from the system.

Following this, the system must be dosed with a good eminence water treatment to prevent corrosion. System design, flushing and dosing must be in accordance with BS 7593: 2019 and BS EN 12828: 2012. Alternatively, the system should be compliant with the criteria defined in VDI 2035.

IMPORTANT: Failure to observe these requirements will render the guarantee on the product void.

This publication is issued subject to alteration or withdrawal without notice. The illustrations and specifications are not binding in detail.



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