

TIANJIN JIUDING YANGGUANG HVAC CO., LTD

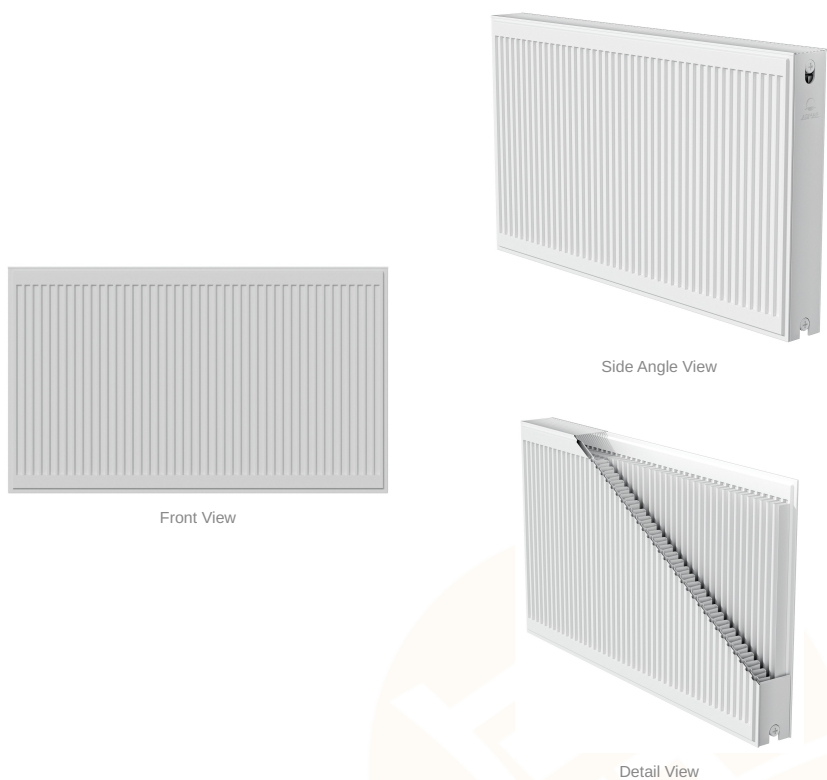
JD-22K

Panel Radiator (2 Panels + 2 Convectors)

Type 22 steel panel radiator — 2 heating panels + 2 convectors.
100 mm depth. The most specified panel type in European projects.
EN 442 certified. Heights 300-900 mm, widths 400-3000 mm.

JD-22K — Product Overview

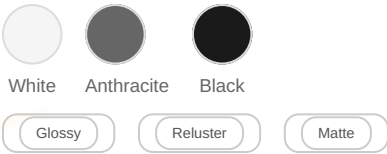
Panel Radiator (2 Panels + 2 Convectors)



Key Features

- Type 22: 2P + 2C
- Depth: 100 mm
- Test pressure: 13 Bar
- EN 442-1 & 442-2 certified
- H: 300-900 mm
- W: 400-3000 mm
- Most specified panel type
- Cool white / Off white / Ivory

Colors & Finishes



Custom RAL on request

Specifications — EN 442 ($\Delta T = 50^{\circ}\text{C}$)

Model Code	Height mm	Width mm	Depth mm	Centre mm	Power W $\Delta T50^{\circ}\text{C}$	Heating m^2
Height 300 mm						
C22-300-500	300	500	100	250	721	7.2
C22-300-1000	300	1000	100	250	1443	14.4
C22-300-1500	300	1500	100	250	2164	21.6
C22-300-2000	300	2000	100	250	2886	28.9
C22-300-3000	300	3000	100	250	4329	43.3
Height 400 mm						
C22-400-500	400	500	100	350	910	9.1
C22-400-1000	400	1000	100	350	1820	18.2
C22-400-1500	400	1500	100	350	2730	27.3
C22-400-2000	400	2000	100	350	3640	36.4
C22-400-3000	400	3000	100	350	5460	54.6
Height 500 mm						
C22-500-500	500	500	100	450	1140	11.4
C22-500-1000	500	1000	100	450	2280	22.8
C22-500-1500	500	1500	100	450	3420	34.2
C22-500-2000	500	2000	100	450	4560	45.6
C22-500-3000	500	3000	100	450	6840	68.4
Height 600 mm						
C22-600-500	600	500	100	550	1325	13.3
C22-600-1000	600	1000	100	550	2650	26.5
C22-600-1500	600	1500	100	550	3975	39.8
C22-600-2000	600	2000	100	550	5300	53.0
C22-600-3000	600	3000	100	550	7950	79.5
Height 900 mm						
C22-900-500	900	500	100	850	1746	17.5
C22-900-1000	900	1000	100	850	3492	34.9
C22-900-1500	900	1500	100	850	5238	52.4
C22-900-2000	900	2000	100	850	6984	69.8
C22-900-3000	900	3000	100	850	10476	104.8

Customization: Product dimensions (height / width / depth) and colour are customizable to order. All figures in this datasheet are illustrative examples — exact specifications are confirmed per order and verified by test.

Heat Output at Various ΔT

EN 442 | $Q = Q_{50} \times (\Delta T / 50)^{1.3}$

JD-22K — Heat Output at Various ΔT (Watt, °C)

Model	$\Delta T=30$	$\Delta T=40$	$\Delta T=50$	$\Delta T=60$	Model	$\Delta T=30$	$\Delta T=40$	$\Delta T=50$	$\Delta T=60$
C22-300-500	371	539	721	914	C22-500-2000	2347	3412	4560	5780
C22-300-1000	743	1080	1443	1829	C22-500-3000	3521	5118	6840	8669
C22-300-1500	1114	1619	2164	2743	C22-600-500	682	991	1325	1679
C22-300-2000	1486	2159	2886	3658	C22-600-1000	1364	1983	2650	3359
C22-300-3000	2228	3239	4329	5487	C22-600-1500	2046	2974	3975	5038
C22-400-500	468	681	910	1153	C22-600-2000	2728	3965	5300	6718
C22-400-1000	937	1362	1820	2307	C22-600-3000	4092	5948	7950	10076
C22-400-1500	1405	2043	2730	3460	C22-900-500	899	1306	1746	2213
C22-400-2000	1874	2723	3640	4614	C22-900-1000	1798	2613	3492	4426
C22-400-3000	2811	4085	5460	6920	C22-900-1500	2696	3919	5238	6639
C22-500-500	587	853	1140	1445	C22-900-2000	3595	5225	6984	8852
C22-500-1000	1174	1706	2280	2890	C22-900-3000	5393	7838	10476	13278
C22-500-1500	1760	2559	3420	4335					

Note: $\Delta T = 50^{\circ}\text{C}$ values are EN 442 tested. Other ΔT values are calculated using the formula $Q = Q_n \times (\Delta T / 50)^n$ where $n \approx 1.3$. ΔT is defined as $(T_{\text{supply}} + T_{\text{return}}) / 2 - T_{\text{room}}$.

Water Capacity (Litres)

Height	W 500 mm	W 1000 mm	W 1500 mm	W 2000 mm	W 3000 mm
300 mm	1.7	3.4	5.1	6.8	10.2
400 mm	2.0	4.1	6.1	8.1	12.2
500 mm	2.4	4.7	7.1	9.5	14.2
600 mm	2.7	5.4	8.1	10.8	16.2
900 mm	3.7	7.4	11.1	14.8	22.2

Calculated values for reference only (EN 442 industry-typical panel water content); exact data should be based on the test.

Manufacturing Specification (EN 442)

Parameter	Specification	Tolerance / Reference
Panel steel thickness	min. 1.1 mm	-0 / +0.04 mm
Side cover & top grill steel	0.60 mm	± 0.05 mm
Flat surface steel	1 mm	± 0.07 mm
Convactor steel	0.35 mm	± 0.05 mm
Varnish layer thickness	100–120 micron	—
Varnish colour	RAL 9016	—
Spot welding point diameter	Φ8 mm	—
Steel quality	DC 01 acc. EN 10130 / EN 10131, low-carbon	Free of scaling / rust; MTC provided
Pressure tightness	13 bar	EN 442-2
Burst strength	16.9 bar	2 min — no burst / no leakage
Dimensional deviations	Within tolerance	EN 442-2 Table 3
Reaction to fire	Class A1	—
Release of dangerous substances	None	—
Surface temperature	Up to 120°C	—
Resistance against minor impact	Tested	EN 442-1 item 5.9

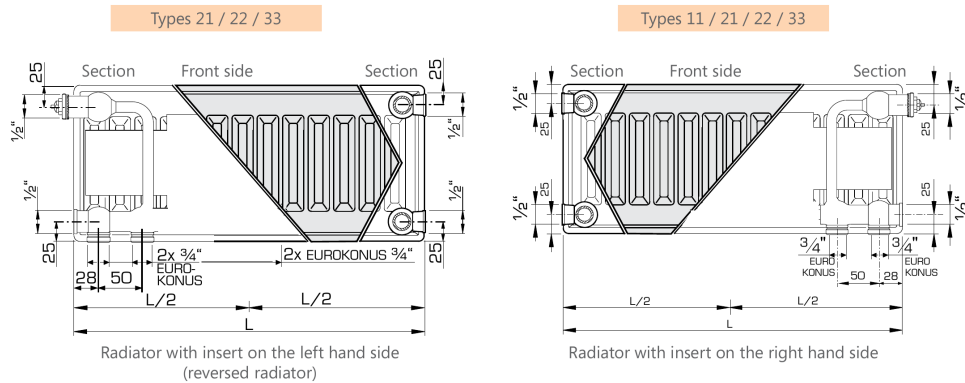
Wet surfaces made of low-carbon steel sheet, free of scaling and rust; Mill Test Certificate (MTC) from the raw-material supplier provided prior to each order.

Installation & Care Guidelines

- Avoid bumps and pressure during transport and assembly; store in a dry, cool place (not outdoors, below 0°C or in humid environments).
- Panel radiators must be installed and repaired by professional persons.
- Unwrap the blind plug, air-vent plug and fasteners carefully; do not cut the paint when removing the packaging.
- For indoor use. Do not use in corrosive or high-humidity rooms (bathrooms, bathhouses, car-wash rooms, cold storage).
- Factory pressure-tested at 10 bar — do not connect directly to a mains water pipe or operate above the rated system pressure.
- Keep the radiator completely filled with water; empty only for replacement, inspection or repair and refill immediately.
- Not suitable for steam heating systems.
- Water quality: calcium carbonate and oxygen content 0 mg/L; hardness ≤ 4.0 mval/L.
- Do not wipe the surface with organic solvents, acids or other corrosive reagents.

Technical Drawing & Installation

Panel Radiator (2 Panels + 2 Convectors)



Installation & Mounting

Panel height mm	Bracket height mm	Radiator length mm	Bracket spacing A mm	Brackets
300	110	600	400	2
600	410	800	600	2
900	710	1000	800	2
		1200	1000	2
		1400	1200	2
		1600	700	3
		1800	800	3
		2000	900	3
		2200	1000	3
		2400	1100	3

- Length 600–1400 mm: **2 brackets**
- Length 1600–2400 mm: **3 brackets**
- Optional hanging: long side 38 mm / short side 23 mm
- Minimum **150 mm** clearance from the floor

Customization Options

 Bottom-entry tee accessories 底进三通配件 — tee valve sets for bottom-entry connection	 Wall mounting Single-sided (单面挂) or double-sided (双面挂) wall brackets; optional long-side 38 mm / short-side 23 mm hanging	 Floor bracket 地支架 — free-standing floor mounting where wall fixing is not possible	 Height series 300 / 400 / 500 / 600 / 700 / 900 mm; width 400–3000 mm
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Dimensions & colours are customizable to order — figures shown are illustrative; actual specifications are confirmed per order.

Dimensional Reference

Parameter	300 mm	400 mm	500 mm	600 mm	900 mm
Overall Height (mm)	300	400	500	600	900
Centre Distance (mm)	250	350	450	550	850
Depth (mm)	100				
Test pressure	13 Bar				
Connections	Bottom or side entry				
Available widths (mm)	400–3000 mm				

Hydraulic Connections — Panel Radiators

