



TIANJIN JIUDING YANGGUANG HVAC CO., LTD

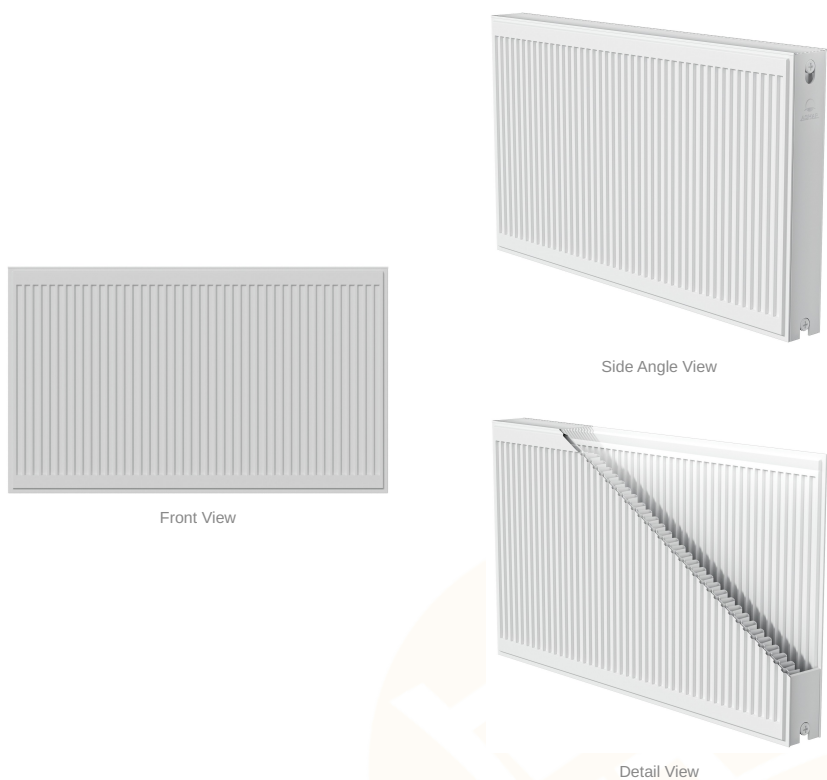
JD-21K

Panel Radiator (2 Panels + 1 Convector)

Type 21 panel radiator (2 panels + 1 convector).
70mm depth. Good balance of output and depth.
EN 442 certified. Full size matrix available.

JD-21K — Product Overview

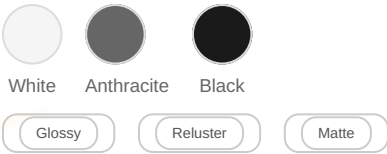
Panel Radiator (2 Panels + 1 Convector)



Key Features

- Type 21: 2P + 1C
- Depth: 70 mm
- Test pressure: 13 Bar
- EN 442-1 & 442-2
- H: 300-900 mm
- W: 400-3000 mm
- Bottom or side entry
- 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						
C21-300-500	300	500	70	250	563	5.6
C21-300-1000	300	1000	70	250	1125	11.3
C21-300-1500	300	1500	70	250	1688	16.9
C21-300-2000	300	2000	70	250	2251	22.5
C21-300-3000	300	3000	70	250	3264	21.2
Height 400 mm						
C21-400-500	400	500	70	350	705	7.1
C21-400-1000	400	1000	70	350	1410	14.1
C21-400-1500	400	1500	70	350	2115	21.2
C21-400-2000	400	2000	70	350	2820	28.2
C21-400-3000	400	3000	70	350	4230	42.3
Height 500 mm						
C21-500-500	500	500	70	450	889	8.9
C21-500-1000	500	1000	70	450	1780	17.8
C21-500-1500	500	1500	70	450	2670	26.7
C21-500-2000	500	2000	70	450	3560	35.6
C21-500-3000	500	3000	70	450	5340	53.4
Height 600 mm						
C21-600-500	600	500	70	550	1033	10.3
C21-600-1000	600	1000	70	550	2070	20.7
C21-600-1500	600	1500	70	550	3105	31.1
C21-600-2000	600	2000	70	550	4140	41.4
C21-600-3000	600	3000	70	550	6210	62.1
Height 900 mm						
C21-900-500	900	500	70	850	1353	13.5
C21-900-1000	900	1000	70	850	2705	27.1
C21-900-1500	900	1500	70	850	4058	40.6
C21-900-2000	900	2000	70	850	5410	54.1
C21-900-3000	900	3000	70	850	8115	81.2

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-21K — Heat Output at Various ΔT (Watt, °C)

Model	$\Delta T=30$	$\Delta T=40$	$\Delta T=50$	$\Delta T=60$	Model	$\Delta T=30$	$\Delta T=40$	$\Delta T=50$	$\Delta T=60$
C21-300-500	290	421	563	714	C21-500-2000	1833	2664	3560	4512
C21-300-1000	579	842	1125	1426	C21-500-3000	2749	3995	5340	6768
C21-300-1500	869	1263	1688	2139	C21-600-500	532	773	1033	1309
C21-300-2000	1159	1684	2251	2853	C21-600-1000	1066	1549	2070	2624
C21-300-3000	1680	2442	3264	4137	C21-600-1500	1598	2323	3105	3935
C21-400-500	363	527	705	894	C21-600-2000	2131	3098	4140	5247
C21-400-1000	726	1055	1410	1787	C21-600-3000	3197	4646	6210	7871
C21-400-1500	1089	1582	2115	2681	C21-900-500	696	1012	1353	1715
C21-400-2000	1452	2110	2820	3574	C21-900-1000	1392	2024	2705	3428
C21-400-3000	2177	3165	4230	5361	C21-900-1500	2089	3036	4058	5143
C21-500-500	458	665	889	1127	C21-900-2000	2785	4048	5410	6857
C21-500-1000	916	1332	1780	2256	C21-900-3000	4177	6072	8115	10285
C21-500-1500	1374	1998	2670	3384					

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
Convector 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

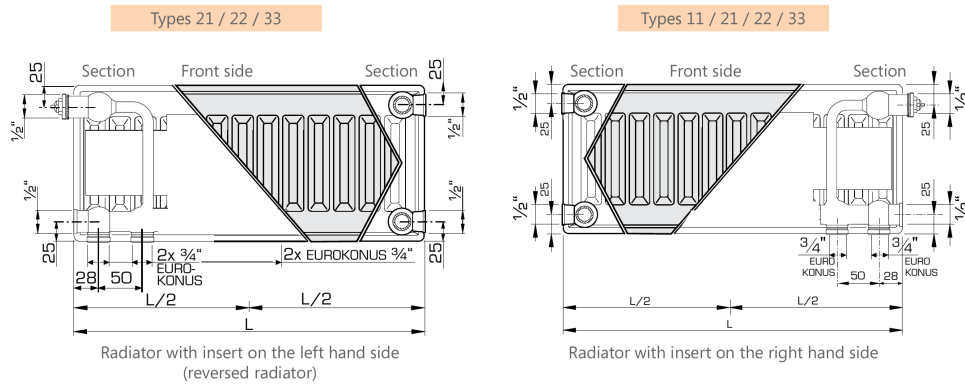
Wet surfaces made of low-carbon steel sheet, free of scaling and rust; Mill Test Certificate (MTC) from the raw-material supplier provided prior to each order.

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 + 1 Convactor)



Installation & Mounting

Panel height mm	Bracket height mm
300	110
600	410
900	710

- 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

Radiator length mm	Bracket spacing A mm	Brackets
600	400	2
800	600	2
1000	800	2
1200	1000	2
1400	1200	2
1600	700	3
1800	800	3
2000	900	3
2200	1000	3
2400	1100	3

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)	70				
Test pressure	13 Bar				
Connections	Bottom or side entry				
Available widths (mm)	400–3000 mm				

Hydraulic Connections — Panel Radiators

