

CONCEALED HORIZONTAL DC 4-PIPE FANCOIL UNIT



The ASAMI ducted fan coil unit is designed to deliver discreet, efficient, and reliable climate control for hotels, offices, and residential spaces. Equipped with a high-efficiency DC motor, it ensures low energy consumption, quiet operation, and precise airflow performance. Each unit may be supplied with a wired controller, an integrated air filters for convenient operation and improved indoor air quality. With a standard external static pressure of 12 Pa, the unit is suitable for most applications, while the adjustable pressure capability up to 50 Pa provides additional flexibility for more demanding duct systems. Combining powerful performance with compact design, ASAMI ducted fan coils offer a professional and comfortable HVAC solution for modern interiors.

Indoor unit model			AFCD-25D31/4P	AFCD-35D31/4P	AFCD-45D31/4P	AFCD-50D31/4P	AFCD-60D31/4P
Capacity	Cooling	kW	2.5/2.1/1.7	3.4/2.6/2.1	4.4/3.4/2.7	4.8/4.1/3.2	5.7/4.6/3.8
	Heating	kW	2.9/2.7/2.3	4.1/3.7/3.0	5.1/4.5/3.3	5.8/5.1/4.4	6.3/5.7/4.9
Power supply			220-240V~50/60Hz				
Power consumption (H/M/L)		W	26/14/10	29/14.5/10	46/23/14	48/27/21	72/35.5/20.5
Air flow volume (H/M/L)		m³/h	425/330/250	595/460/330	765/610/450	880/670/500	1020/860/660
Pressure drop	Cooling	kPa	20/16/11	23/15/10	21/15/10	27/19/13	26/18/12
	Heating	kPa	8/7/6	19/16/11	28/24/13	35/27/21	45/38/30
Sound power level		dB(A)	56/49/42	52/48/40	60/53/46	62/54/47	63/60/53
Water flow volume	Cooling	l/s	0.12/0.10/0.08	0.17/0.13/0.1	0.21/0.17/0.13	0.23/0.20/0.16	0.28/0.23/0.18
	Heating	l/s	0.07/0.07/0.06	0.1/0.09/0.07	0.12/0.11/0.08	0.14/0.13/0.11	0.15/0.14/0.12
Connection		Inlet/Outlet	Cooling: Rc3/4, Heating: Rc1/2				
		Drain pipe	Rc3/4				
Main body	Dimension (W×D×H)	Outline	mm	685×529×228	855×529×228	915×529×228	1080×529×228
		Package	mm	725×540×260	895×540×260	955×540×260	1020×540×260
	Net/Gross weight		kg	12.5/15	15.5/18.5	17/19.5	18/20.5
						19/22	
Indoor unit model			AFCD-70D31/4P	AFCD-80D31/4P	AFCD-90D31/4P	AFCD-110D31/4P	AFCD-130D31/4P
Capacity	Cooling	kW	6.7/5.4/4.4	8.0/6.6/5.3	8.9/7.0/5.7	11.0/8.5/6.2	12.8/10.1/7.5
	Heating	kW	7.4/6.7/5.8	9.2/8.1/6.9	10.5/8.7/7.4	12.5/10.8/8.5	14.5/12.9/10.3
Power supply			220-240V~50/60Hz				
Power consumption (H/M/L)		W	83/37/22	82/41/21	118/46/24	146/59/24	204/95/38
Air flow volume (H/M/L)		m³/h	1210/930/710	1450/1100/850	1720/1210/910	2045/1530/1010	2380/1800/1200
Pressure drop	Cooling	kPa	36/24/16	27/20/13	34/22/15	40/25/14	42/37.5/16.5
	Heating	kPa	25/19/15	42/34/26	55/41/29	43/34/22	55/46/31
Sound power level		dB(A)	66/57/51	63/58/51	68/58/51	70/62/53	70/63/54
Water flow volume	Cooling	l/s	0.33/0.26/0.21	0.39/0.32/0.26	0.43/0.34/0.27	0.53/0.41/0.3	0.62/0.49/0.37
	Heating	l/s	0.18/0.16/0.14	0.22/0.20/0.17	0.25/0.21/0.18	0.3/0.26/0.21	0.35/0.31/0.25
Connection		Inlet/Outlet	Cooling: Rc3/4, Heating: Rc1/2				
		Drain pipe	Rc3/4				
Main body	Dimension (W×D×H)	Outline	mm	1250×529×238	1450×529×228	1555×529×228	1715×529×228
		Package	mm	1295×260×540	1495×260×540	1595×260×540	1755×260×540
	Net/Gross weight		kg	21/24.5	27/31	28.5/32.5	32.5/37
						34.7/39.5	

Testing conditions for models

(a) Rated cooling conditions - dry / set bulb temperature: 27°C/ 19.5°C, entering/leaving water temperature: 7°C/ 12°C. (b) Rated heating conditions - dry bulb temperature: 20°C, entering water temperature: 45°C, the water flow is the same as that of the cooling condition.

Noise testing condition: the test condition is a semi-anechoic room, and the nominal value is the high-speednoise of the unit. The actual use changes due to changes of the environment.

The above specifications are subject to change without prior notice.



Quiet & Comfort Operation

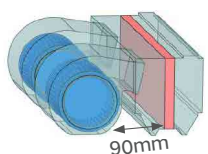
Phase-shift volute design optimizes airflow, improves supply air uniformity, reduces fan noise by 2-3dB(A) Increased fin-to-inlet distance, optimized via CFD, improves airflow uniformity by 18% and reduces system noise by 1 – 2dB(A).



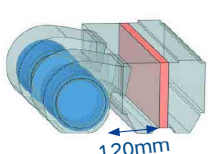
Conventional Volute



Phase-Shift Volute



Fin-to-inlet Distance



120mm



High-Efficiency BLDC Motor



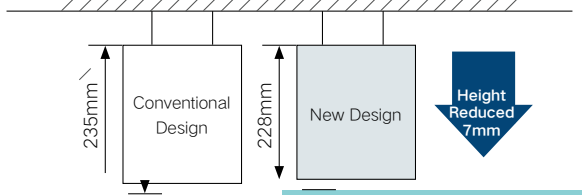
Stepless speed control with wide operating range
32% higher system efficiency than AC units
Compact, high-power density design
Low vibration and ultra-quiet operation

Enhanced reliability and extended service lif



Adaptable & Flexible Installation

Compact housing with integrated structure
• 228mm height (reduced from 235mm)
• Lower ceiling space requirement
• Compatible with M8/M10 hanging rods



220V Thermostat

WK-E1111B

• Touch-sensitive keys with high-transparency acrylic cover
• Slim, stylish design with high screen-to-body ratio
• Backlight, WiFi, BMS, and remote control functions

Ultra-Thin Type: WK-011PM/WK-010PM/WK-011PN/WK-010PN

• 10.5mm ultra-thin body with touch-sensitive keys
• Backlight and remote control functions
• White or black panel (remote control version only in black)



Optional



Optiona Ultra-Thin Type