



Fan Coil Units

Low- Medium & High Static units



General Features

COIL:

- The coil can have 2 or 3 or 4 rows, with copper tubes mechanically bonded into corrugated aluminum fin .
- Optional copper fin or hydrophilic blue or Gold fin is available.
- Water inlet / outlet connections are ¾-inch female pipe thread (BT).
- Coil assembly is tested over 20kg/cm2 (300psig).
- A manual air vet is fitted with a drain line to the drain pan to avoid any water drips when venting.
- A water drain is located at the bottom of the coil header.

FILTER:

Regenerable synthetic fiber enclosed with wire mesh protection. The filter is easily removable for cleaning and maintenance. Filter efficiency G1, G2 and G3 (MERV 1-5).

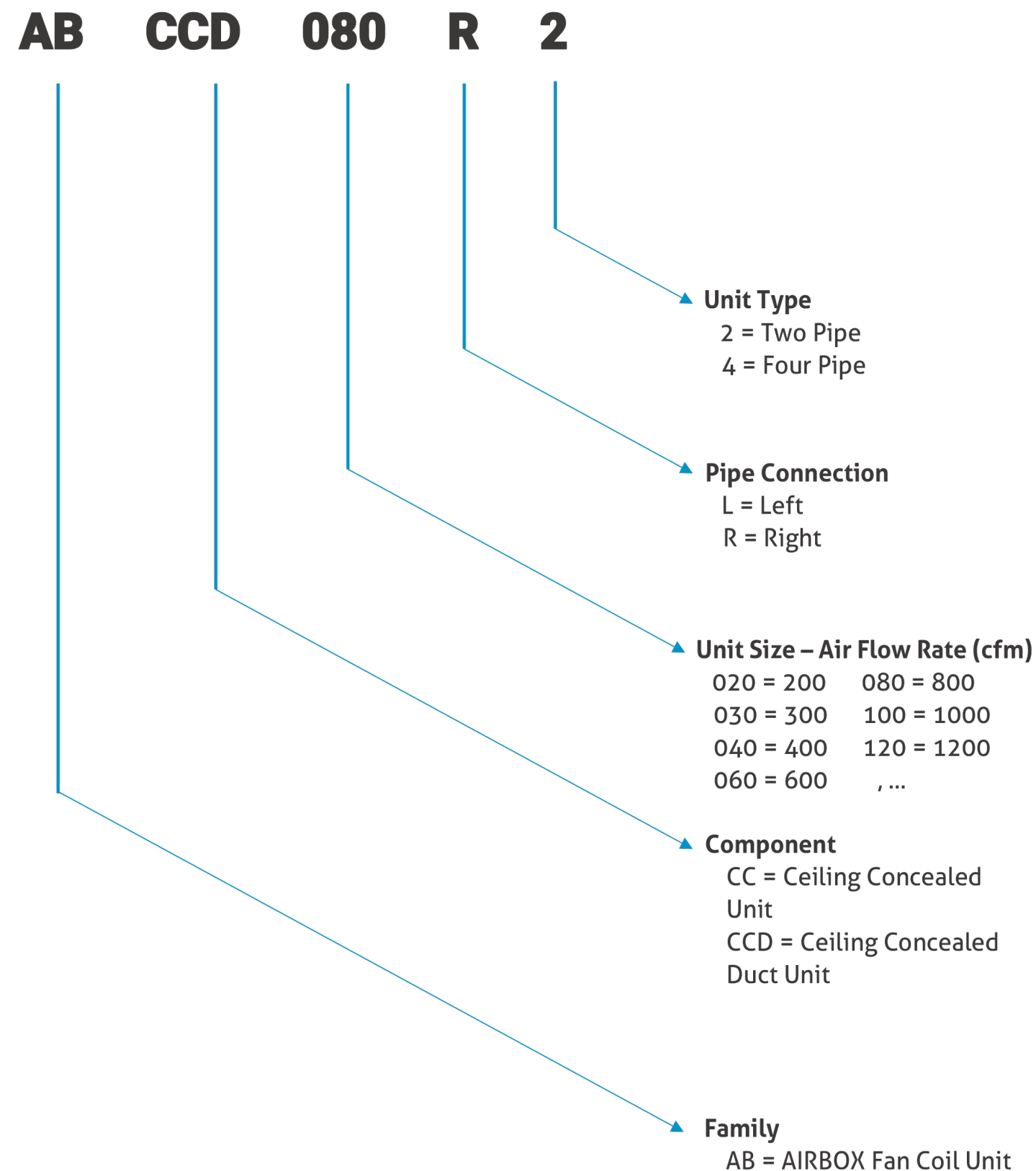
Fan and Motor:

- Standard ABS fan wheel with optional galvanized steel fan wheel for low noise application.
- The motor comes with hermetic aluminum alloy casing and permanently lubricated ball bearing.
- The motor has grade B class insulation; with built-in thermal cutout.
- AC-motor – V230/1Ph/50-60Hz single phase, 3, 5, 6 or 7 speeds are available depending on model, 3 are wired to the fan speed switch

CASING:

- Frame construction made of galvanised steel,
- Casing epoxy powder coated RAL 9005 is available on request
- Fresh air inlet

Nomenclature



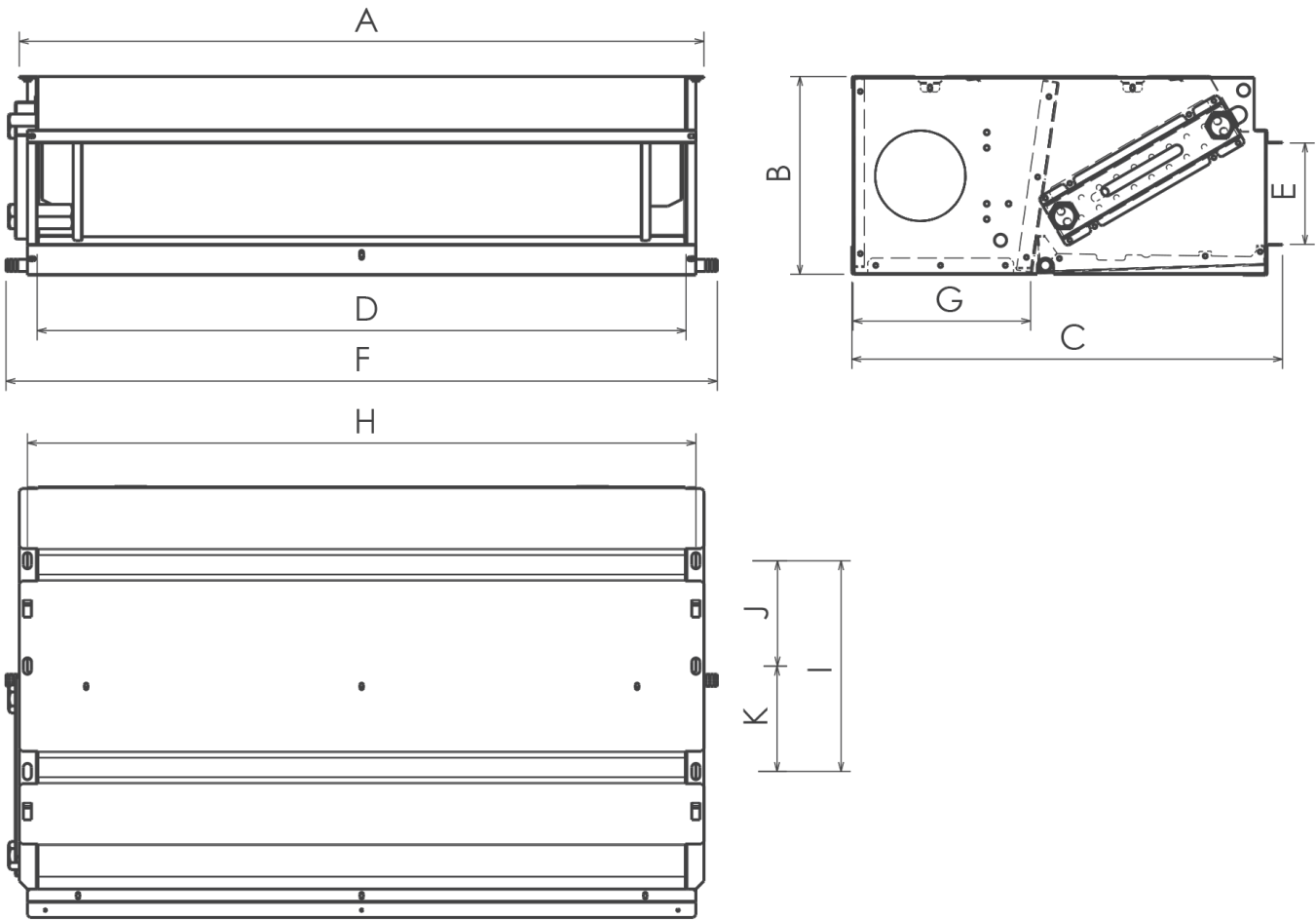
Ceiling Concealed Unit



Model No.			ABCC020R2	ABCC030R2	ABCC040R2	ABCC060R2	ABCC080R2	ABCC100R2	
Air flow rate		H/M/L	CFM	200/150/100	300/250/150	400/350/200	600/500/200	800/600/400	1000/600/400
Capacity	Cooling	H/M/L	KW	1.8	2.61	3.6	5.13	7.03	8.9
			BTU/hr	6,100	8,900	12,300	17,500	24,000	30,300
	Heating	H/M/L	KW	2.55	3.64	4.74	6.68	8.87	11.10
			BTU/hr	8,700	12,400	16,200	22,800	30,300	37,900
Water flow rate			gpm	1.5	2	2.5	3.5	5	6.0
Water pressure drop			kPa	4.6	8.7	14.5	29.3	64	105
Coil	Tube size		inch	3/8					
	Number of row		-	3					
	Number of tubes for row		-	8					
	Fin Per Inch		FPI	12					
Fan	Type		-	Forward centrifugal					
	Material		-	Galvanized steel					
	Number		-	1		2		3	
	External static pressure		Pa	25-30					
	Number of motor		-	1				2	
Pipe connection	Inlet		inch - mm	¾ - 25					
	Outlet		inch - mm	¾ - 25					
	Drain		inch - mm	½ - 16					
Drain pan	Type		-	Internal					
	Material		-	Galvanized steel with electrostatic powder coated					
	Insulator		-	Elastomeric					
	Filter	Type		-	Washable				
Material		-	Polypropylene						
Fresh air intake hole			inch - mm	4 - 110					
Sound pressure level		Max	dB(A)	38				40	
Rated current			A	1x 0.55				2x 0.55	
Power supply			PH , V , Hz	1 , 220 , 50					
Net weight			Kg	~ 18	~ 19	~ 21	~ 23	~ 32	~ 37

- Cooling design condition; inlet / outlet water temp: 7 °C (45 °F) / 12 °C (54 °F) and inlet air temp; DB=27 °C (80 °F) , WB=20 °C (67 °F) , sea level: 4000 ft
- Heating design condition; inlet water temp: 60 °C (140 °F) and inlet air temp: 27 °C (80 °F) , sea level: 4000 ft
- Measuring sound pressure level at high speed mode at 2m away and ±2dB tolerance.
- Fan coil pipes connection side can be selected by the customer.
- According to our innovation policy, some specifications may be change without priornotification.

Dimention

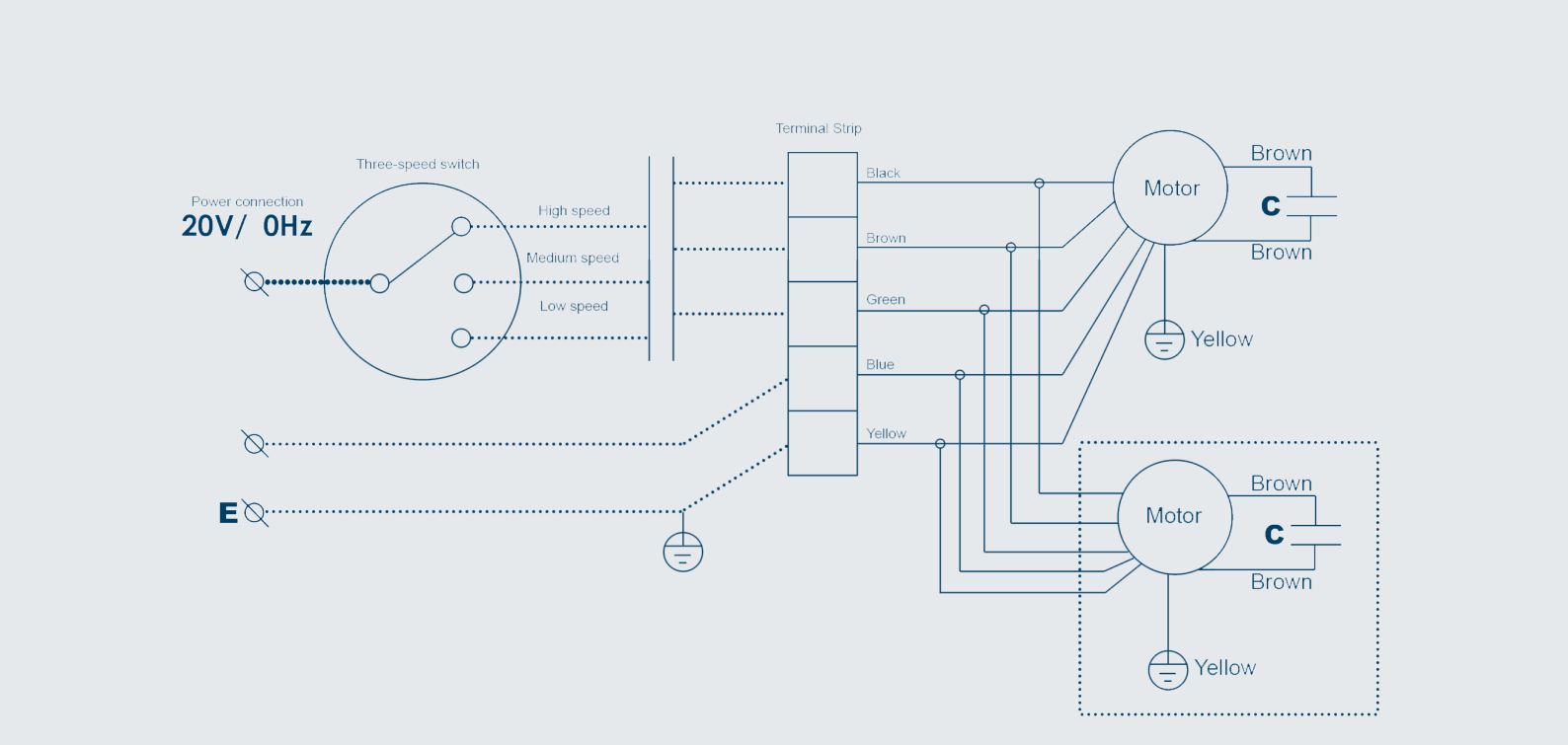


MODEL	A	B	C	D	E	F	G	H	I	J	K
ABCC020R2	645	245	512	601	125	678	220	625	260	130	130
ABCC030R2	745	245	512	701	125	778	220	725	260	130	130
ABCC040R2	845	245	512	801	125	878	220	825	260	130	130
ABCC060R2	945	245	512	901	125	978	220	925	260	130	130
ABCC080R2	1195	245	512	1151	125	1228	220	1175	260	130	130
ABCC0100R2	1445	245	512	1401	125	1478	220	1425	260	130	130

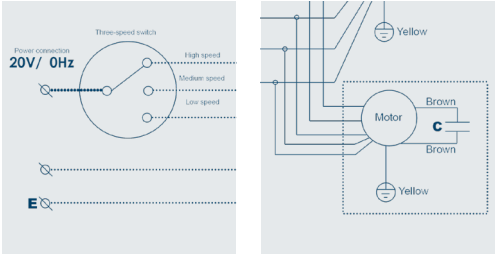
Ceiling Concealed Duct Unit

Model No.			ABCCD080R2	ABCCD100R2	ABCCD120R2	ABCCD140R2	ABCCD160R2	ABCCD180R2	ABCCD200R2		
Air flow rate		H/M/L	CFM	800/600/400	1000/600/450	1200/800/650	1400/1000/800	1600/1200/1000	1800/1400/1200	2000/1600/1400	
Capacity	Cooling	H/M/L	KW	6.6	8.33	9.7	12,06	13.99	15.8	17.8	
			BTU/hr	22,400	28,400	33,000	41,200	47,700	54,000	66,600	
	Heating	H/M/L	KW	9.83	12.18	14.07	17.05	19,26	21,95	24.15	
			BTU/hr	33,500	41,600	48,000	58,200	65,800	74,900	82,500	
Water flow rate			gpm	4.0	5	6.0	7.0	9	9.0	11.0	
Water pressure drop			kPa	11.2	18.4	25.4	41.4	65	77	110	
Coil	Tube size		inch	3/8							
	Number of row		-	4							
	Number of tubes for row		-	12							
	Fin Per Inch		FPI	12							
Fan	Type		-	Forward centrifugal							
	Material		-	Galvanized steel							
	Number		-	2							
	External static pressure		Pa	120							
	Number of motor		-	1							
Pipe connection	Inlet		inch - mm	1-32							
	Outlet		inch - mm	1-32							
	Drain		inch - mm	½ - 22							
Drain pan	Type		-	Internal							
	Material		-	Galvanized steel with electrostatic powder coated							
	Insulator		-	Elastomeric							
	Type		-	Washable							
Filter	Material		-	Polypropylene							
	Fresh air intake hole			inch - mm		4 - 110					
Sound pressure level		Max	dB(A)	50	51	53	55	57			
Input power			w	1x 250					1x 350		
Power supply			PH , V , Hz	1 , 220 , 50							
Dimension		WxHxD	mm	900x320x600			1150x320x600				

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- Measuring sound pressure level at high speed mode at 2m away and ±2dB tolerance.
- Fan coil pipes connection side can be selected by the customer.
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Electrical wiring diagram



1. The unit uses single-phase 220V power supply and the power supply fluctuation can not exceed 10%.
2. Wiring must be carried out according to the diagram strictly on the unit.

Wiring instructions:

- Wiring should be according to the dotted line;
- If wiring at static pressure illustrated by the nameplate, the three-speed switch including high, medium and low speed should be connected to 1, 2 and 3 terminals in turn:
- If wiring at secondary static pressure, the three-speed switch including high, medium and low grades should be connected to 2, and 4 terminals in turn

Notes: The wiring in the dotted line box is used for the dual-motor unit.



📍 14th Floor, Unit 1416, Baran Commercial-Administrative Tower, Shariati Street, Tehran, Iran

☎ +98-21 263 78 695 | +98-21 263 78 670 | +98-9124353672

www.Airboxgroup.ir