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Concealed Fan Coil Unit

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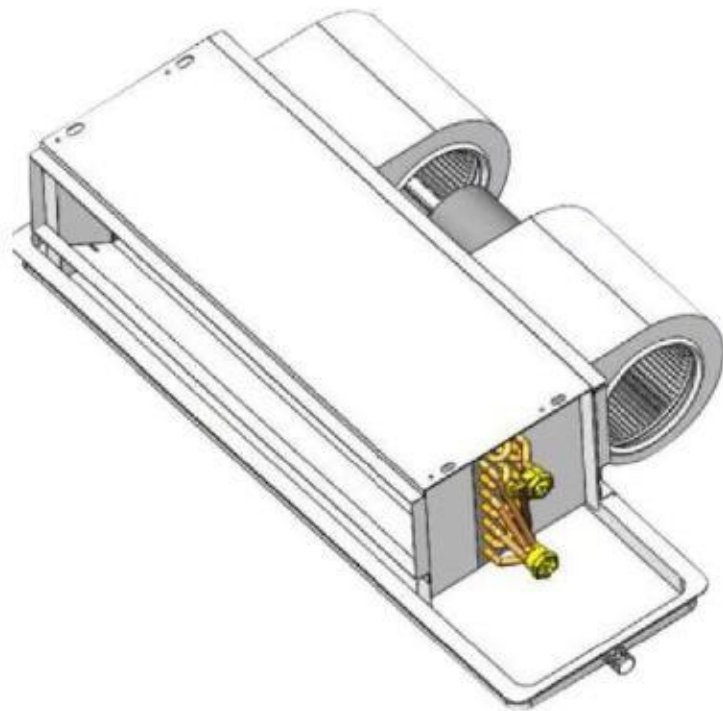


CONCEALED FAN COIL UNIT

Due to its energy saving, environmental protection and comfort with central air conditioning, more and more people are applying central modulation and supporting fan coil units.

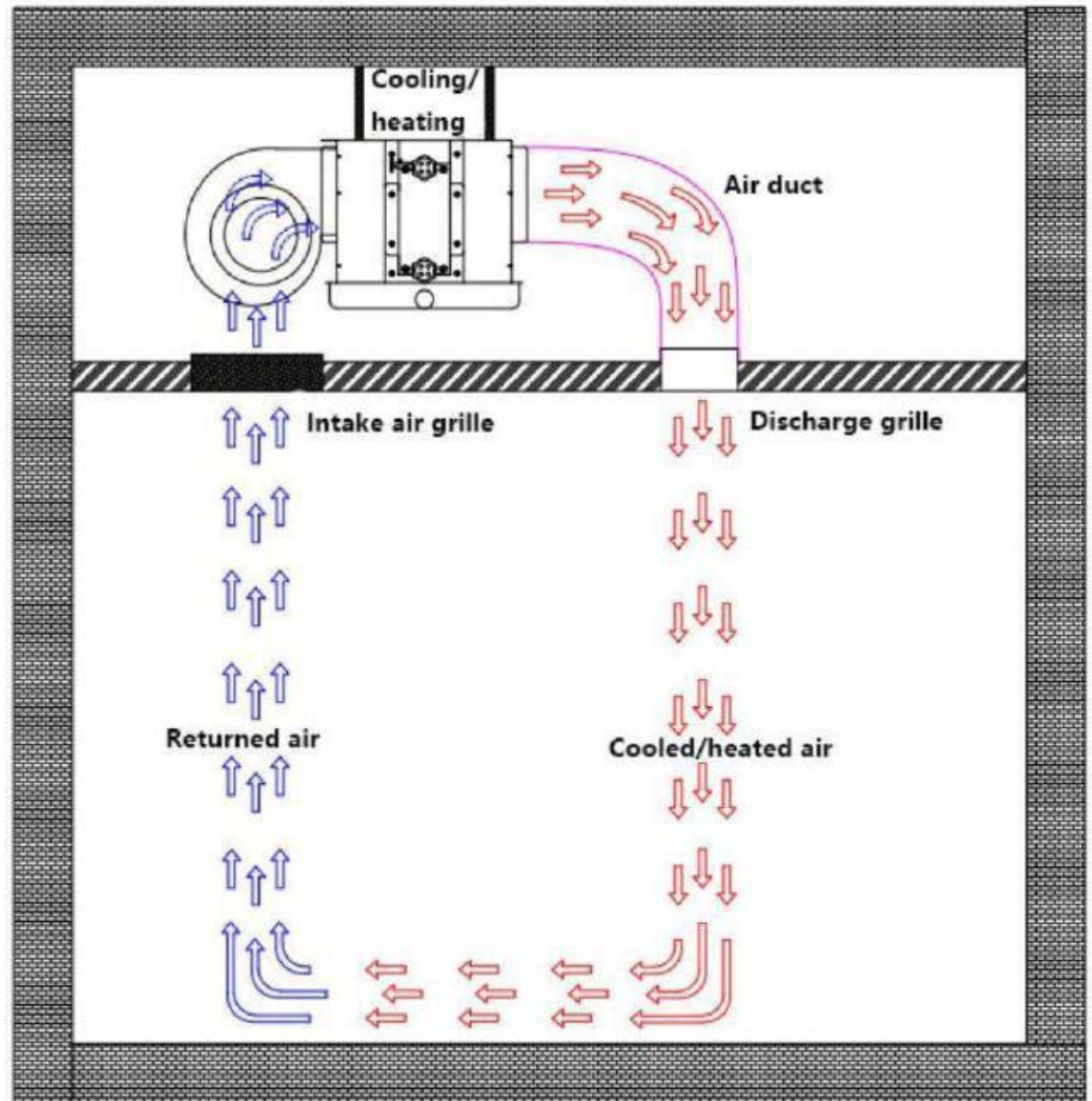
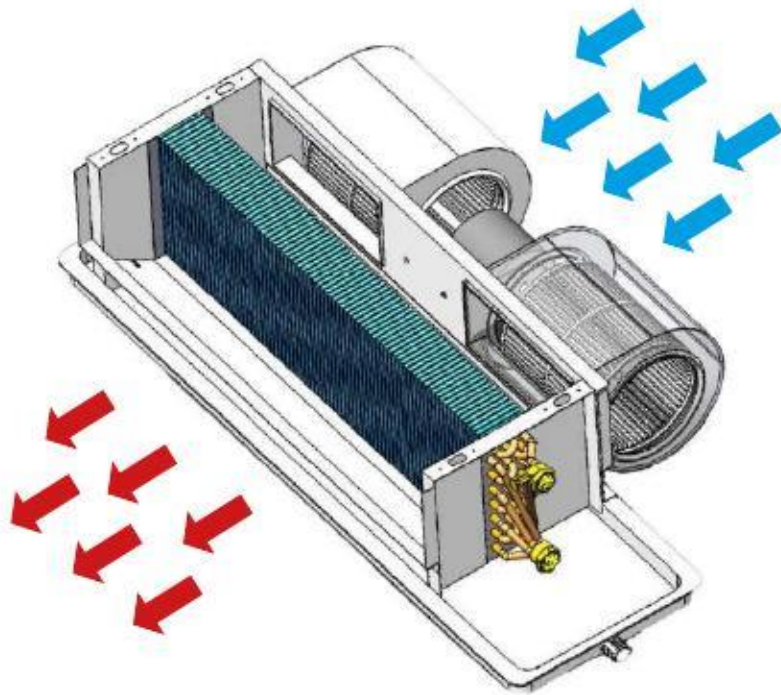
Fan Coil Unit Brief

Concealed Fan Coil Unit, mainly composed of fan and coil, is the most durable series of all fan coil units. Large air volume, efficient heat exchange, ultra-thin height, very popular in the market. The horizontal concealed fan coil unit is hidden inside the ceiling and does not occupy other indoor decoration space; installation is also very convenient.



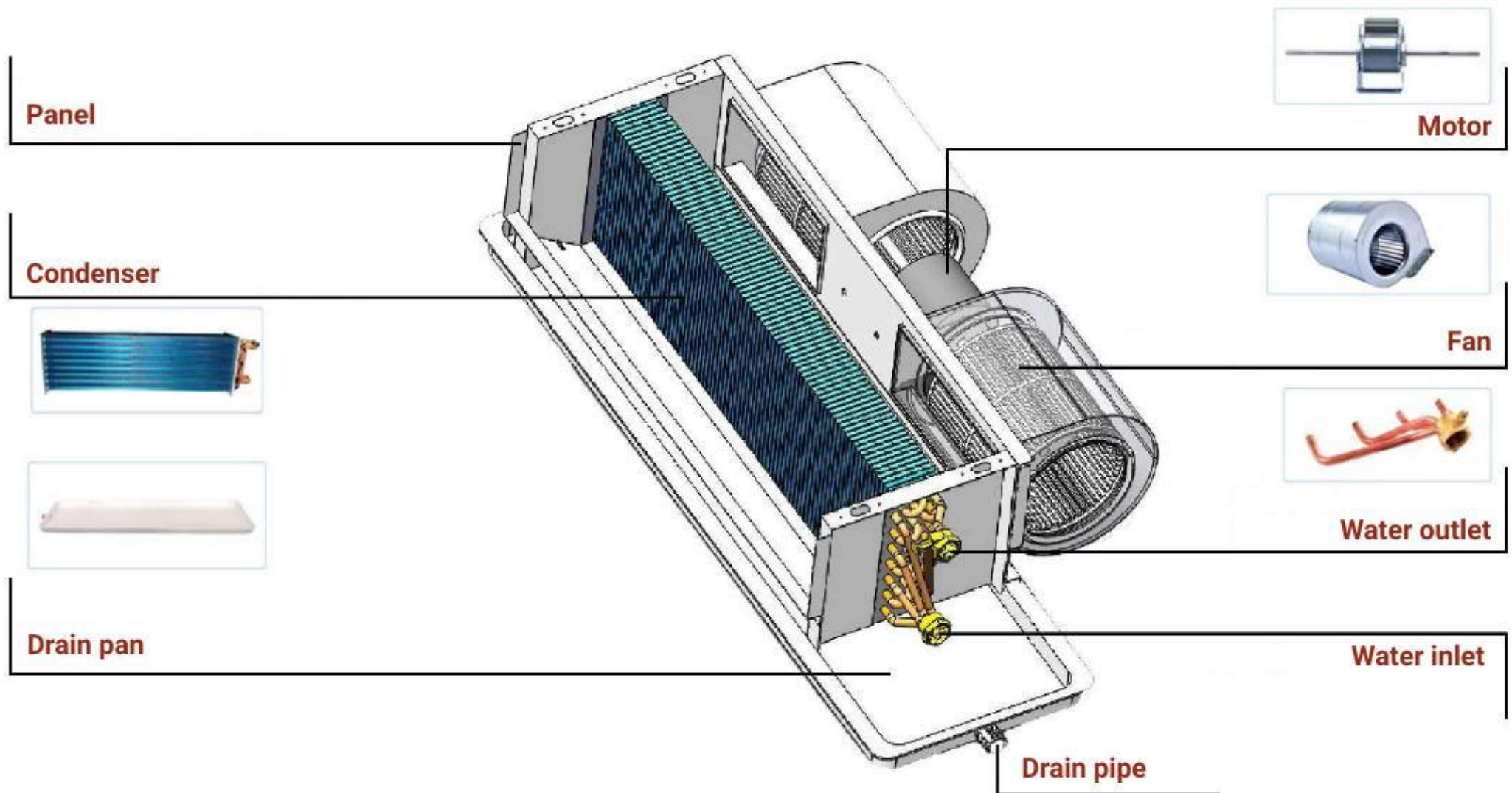
Work principle

The function of fan coil unit is to send indoor air or outdoor mixed air into the room after cooling or heating through the coil, to reduce or increase the indoor temperature and meet the comfort requirements. The cold or hot water in the coil is supplied by the heat pump or chiller.



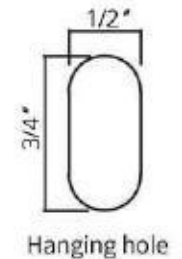
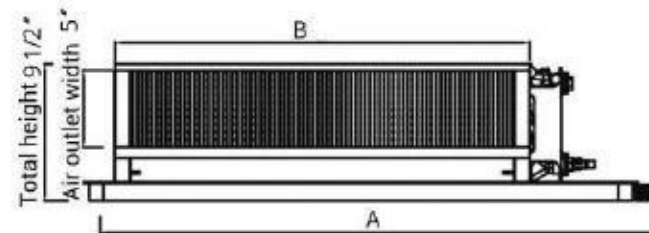
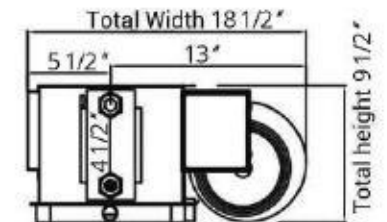
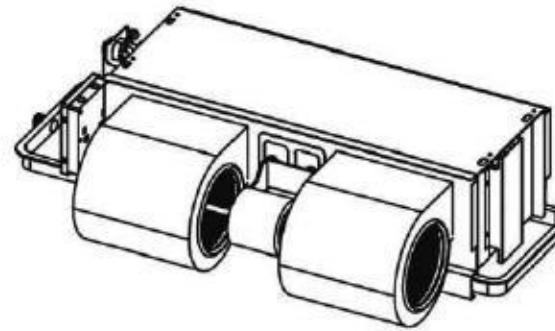
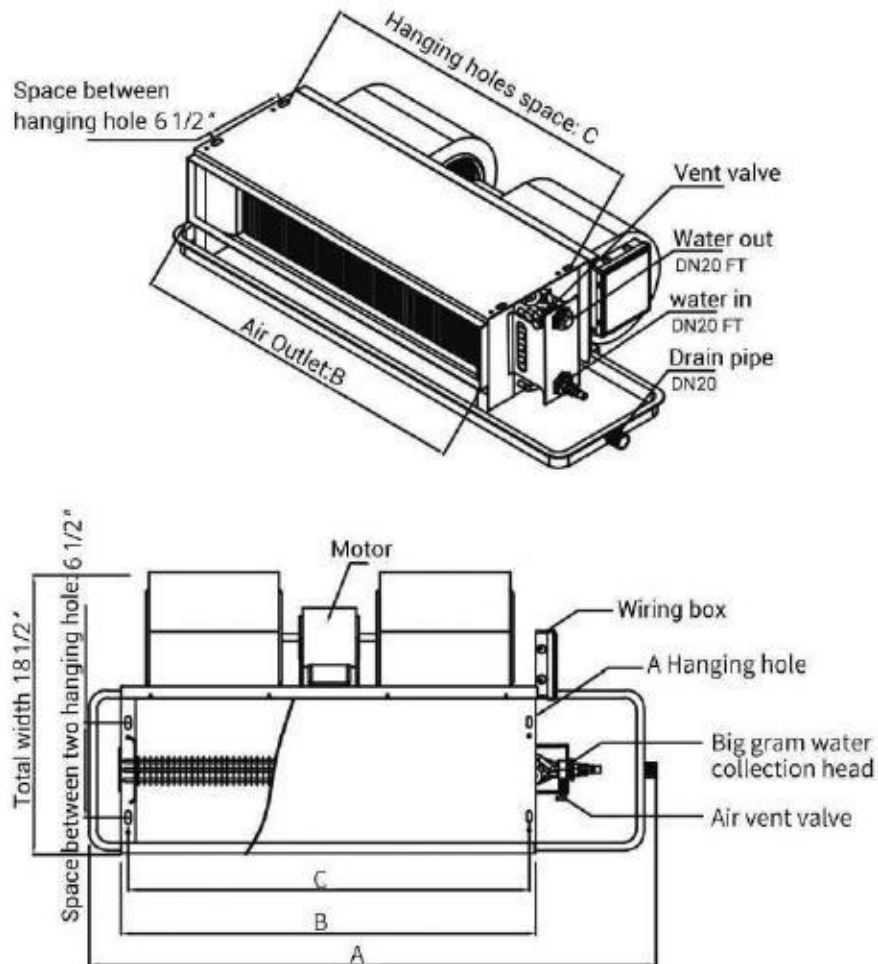
Parts of the fan coil Unit

Product Specification Data Show



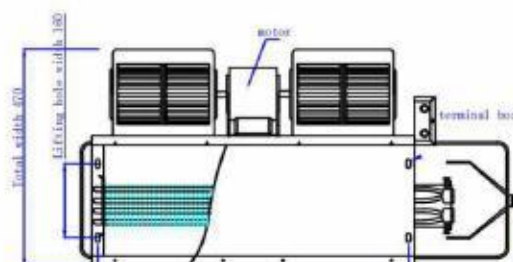
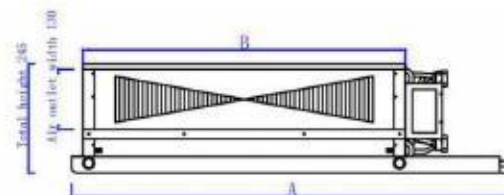
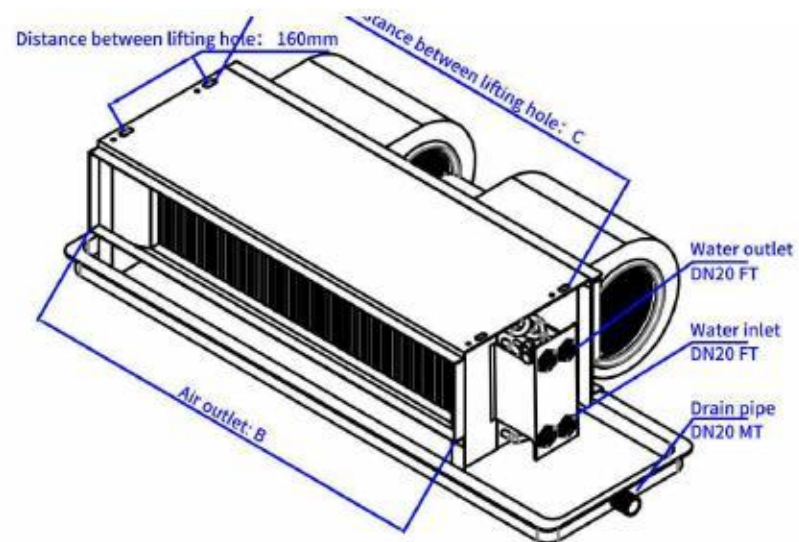
Parts of the concealed Fan Coil Unit

The laying of can adapts to various situations. Cooperates with air source heat pump, gets the maximum energy output to save time, save worry, and effort.



Model	1.5T	3.5T	6T
A	33 3/4"	45 1/2 "	73"
B	25"	37 1/2"	63 1/4"
C	24"	36 1/2 "	62"

4-Pipe FCU Size and Drawing



Model	1.5T	3.5T	6T
A	33 3/4 in.	45 1/2 in.	73 in.
B	25 in.	37 1/2 in.	63 1/4 in.
C	24 in.	36 1/2 in.	62 in.

2-Pipe FCU Technical Data

Technical Data	1.5T	3.5T	6T
Cooling Capacity (Water in 44.6°F)	11.12 KBTU/h	19.62 KBTU/h	36.85 KBTU/h
Heating Capacity (Water in 140°F)	17.98 KBTU/h	38.11 KBTU/h	60.39 KBTU/h
Power Input (0.048 in. w.c.)	16.7 W	52.1 W	92.7 W
Power Input (0.12 in. w.c.)	24.3 W	67 W	116 W
Power Input (0.20 in. w.c.)	32.4 W	82.2 W	155.5 W
Noise (0.048 in. w.c.)	18-30 dB(A)	29-43 dB(A)	33-44 dB(A)
Noise (0.12 in. w.c.)	20-37 dB(A)	30-47 dB(A)	34-48 dB(A)
Noise (0.20 in. w.c.)	22-42 dB(A)	33-50 dB(A)	37-51 dB(A)
Air Flow	320 CFM	642 CFM	1260 CFM
Motor Power	60 W	60 W	60 W
Motor No.	1	1	2
Fan No.	2	2	4
Static Pressure	0-0.20 in. w.c.	0-0.20 in. w.c.	0-0.20 in. w.c.
Water Flow	2.62 GPM	4.41 GPM	8.15 GPM
Coil Length	23 in.	35.5 in.	61 in.
Coil Height	8.5 in.	8.5 in.	8.5 in.
Coil Width	1.5 in.	1.5 in.	1.5 in.
Weight	26.7 lb	34.2 lb	56.2 lb
Package Length	34.6 in.	46.5 in.	74 in.
Package Width	20.5 in.	20.5 in.	20.5 in.
Package Height	9.8 in.	9.8 in.	9.8 in.



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4-Pipe FCU Technical Data

Technical Data	1.5T	3.5T	6T
3+1 Cooling Capacity (Water in 44.6°F)	9.49 KBTU/h	18.97 KBTU/h	37.87 KBTU/h
3+1 Heating Capacity (Water in 140°F)	6.48 KBTU/h	12.62 KBTU/h	24.91 KBTU/h
2+2 Cooling Capacity (Water in 44.6°F)	6.14 KBTU/h	12.97 KBTU/h	26.27 KBTU/h
2+2 Heating Capacity (Water in 140°F)	9.55 KBTU/h	19.45 KBTU/h	38.56 KBTU/h
Power Input (0.12 in. w.c.)	50 W	93 W	183 W
Air Flow	315 CFM	630 CFM	1230 CFM
Motor Power	20 W	40 W	40+40 W
Motor No.	1	1	2
Fan No.	2	2	4
Noise	39 dB(A)	45 dB(A)	50 dB(A)
Static Pressure	0.12 in. w.c.	0.12 in. w.c.	0.12 in. w.c.
Water Flow	2.10 GPM	4.21 GPM	8.42 GPM
Coil Length	22 3/4 in.	35 1/2 in.	61 in.
Coil Height	4 1/4 in.	4 1/4 in.	4 1/4 in.
Coil Width	8 in.	8 in.	8 in.
Weight	29.1 lb	37.5 lb	63.5 lb
ABS Weight	27.8 lb	35.7 lb	61.7 lb
Package Length	34 3/4 in.	46 1/2 in.	74 in.
Package Width	20 1/2 in.	20 1/2 in.	20 1/2 in.
Package Height	10 1/4 in.	10 1/4 in.	10 1/4 in.

3+1 and 2+2 values are manufacturer-rated 4-pipe configurations.

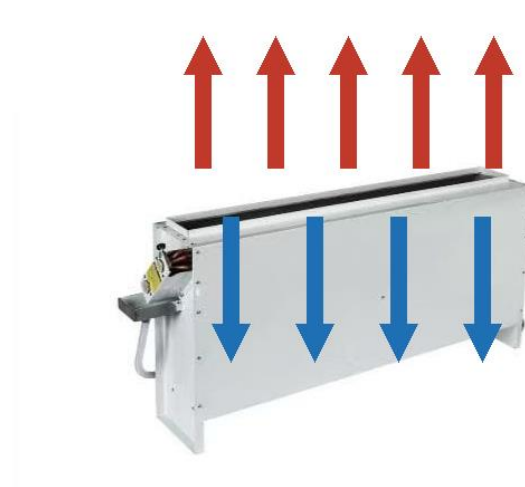


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Vertical Concealed FCU Work Principle

The vertical concealed fan coil unit draws room air in through a lower return grille and passes it across the coil supplied with chilled or hot water from the heat pump or chiller. The conditioned air is then discharged through the slot outlet along the top of the cabinet, directly into the room. Being wall-concealed and free-standing, it needs no extensive ductwork and suits perimeter zones such as corridors, hotel rooms and residential risers.

Discharge Air (Cooled / Heated)



Return Air (Room)

Vertical Concealed FCU (2-Pipe) Size

Model	1.5T	3T	6T
A – Overall Length	30 in.	40 1/2 in.	66 1/2 in.
B – Overall Width	9 in.		
C – Overall Height	24 in.		

2-pipe cabinet carries one water supply and one return connection, switched between chilled and hot water seasonally by the site's central plant.



Vertical Concealed FCU (4-Pipe) Size

Model	1.5T	3T	6T
Overall Length	30 in.	40 1/2 in.	66 1/2 in.
Overall Width	9 in.		
Overall Height	24 in.		

4-pipe cabinet carries separate chilled-water and hot-water supply/return connections, allowing cooling and heating to be available at the same time.



Vertical Concealed FCU with AC Motor

Two-pipe vertical concealed fan coil units fitted with an AC motor, designed for wall-concealed installation behind a decorative cabinet or riser enclosure. Shown here in the three standard sizes – 1.5T, 3T and 6T.



Model	1.5T	3T	6T
Cooling Ca. (KBTU/h)	9.21	18.43	36.85
Heating Ca. (KBTU/h)	13.82	27.64	55.28
Power (W)	50	93	183
Air Flow (CFM)	300	600	1201
Noise dB (A)	39	45	50
Static Pressure	0.048 in. w.c.		
Water Flow (GPM)	2.1	4.21	8.42
Coil Length	22 3/4 in.	33 1/2 in.	59 1/2 in.
Coil Height	7 1/2 in.		
Coil Width	1 1/2 in.		
Iron Wheel Weight (lb)	30.9	39.7	75.0
ABS Weight (lb)	28.7	37.5	72.8
Unit Length	30 in.	40 1/2 in.	66 1/2 in.
Unit Width	9 in.		
Unit Height	24 in.		

4-Pipe Vertical Concealed FCU with AC Motor

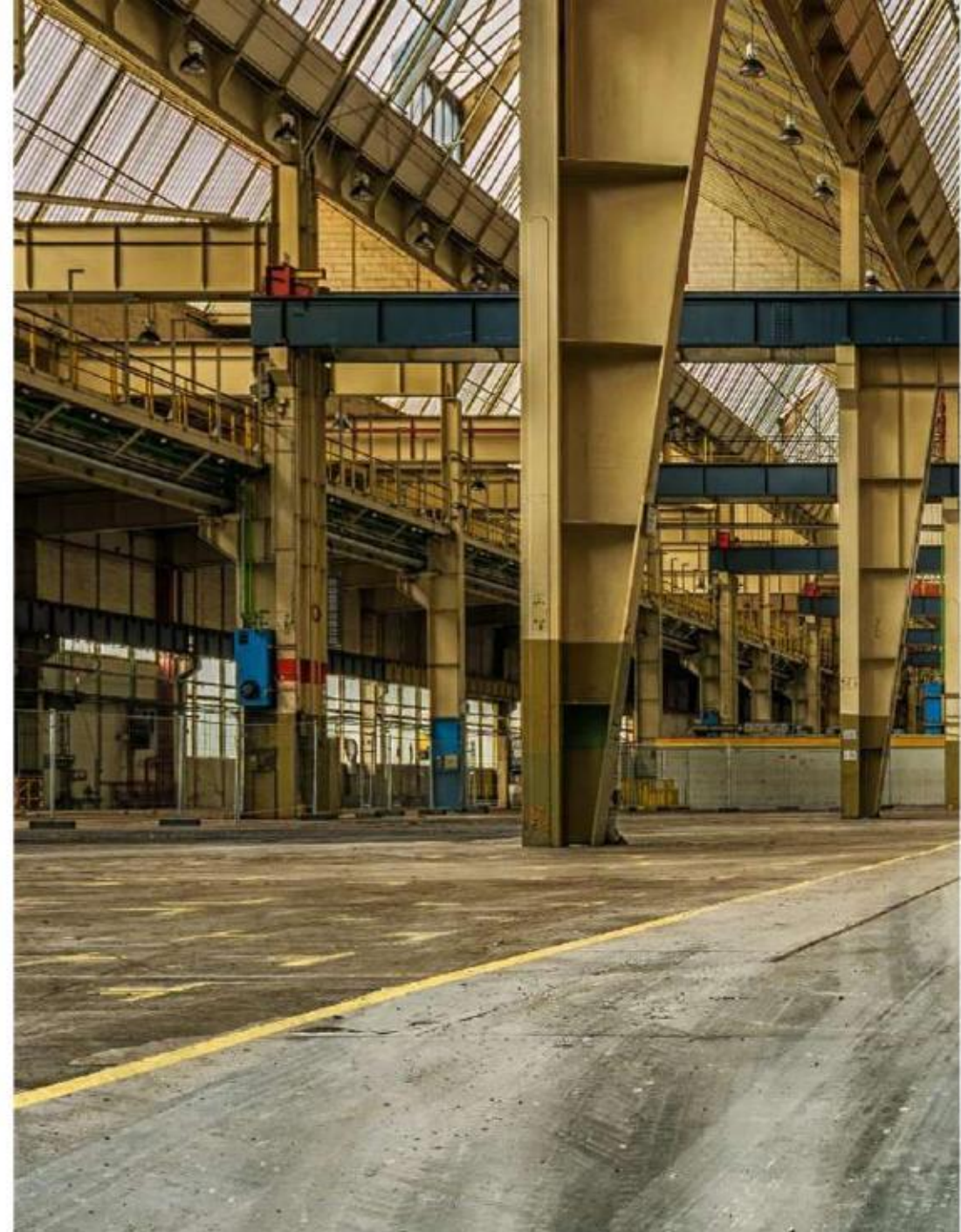
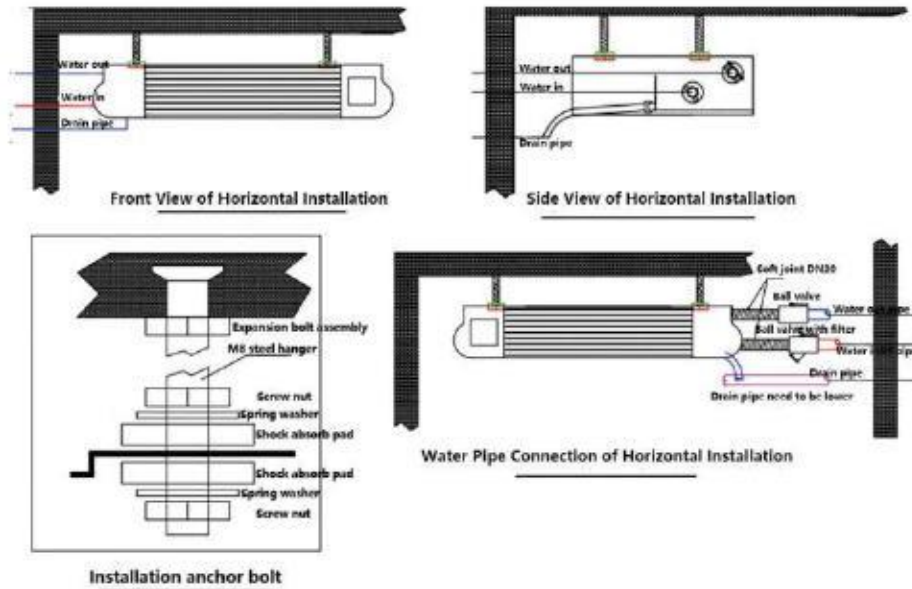
Four-pipe vertical concealed fan coil units with an AC motor and independent chilled-water and hot-water coils, allowing simultaneous cooling and heating availability. Shown here in the three standard sizes – 1.5T, 3T and 6T, matching the 2-pipe range for consistent riser and cabinet planning.

Model	1.5T	3T	6T
3+1 Cooling Ca. (KBTU/h)	9.21	18.43	36.85
3+1 Heating Ca. (KBTU/h)	6.14	12.28	24.91
2+2 Cooling Ca. (KBTU/h)	6.14	12.97	26.27
2+2 Heating Ca. (KBTU/h)	9.55	19.45	38.56
Power Input (W)	50	93	183
Air Flow (CFM)	300	600	1201
Noise dB (A)	39	45	50
Static Pressure	0.048 in. w.c.		
Coil Length	22 3/4 in.	33 1/2 in.	59 1/2 in.
Coil Height	7 1/2 in.		
Coil Width	2 in.		
Iron Wheel Weight (lb)	33.1	44.1	79.4
ABS Weight (lb)	30.9	41.9	77.2
Unit Length	30 in.	40 1/2 in.	66 1/2 in.
Unit Width	9 in.		
Unit Height	24 in.		

3+1 and 2+2 values are manufacturer-rated 4-pipe configurations. Capacity conditions: cooling with 44.6°F entering water; heating with 140°F entering water.

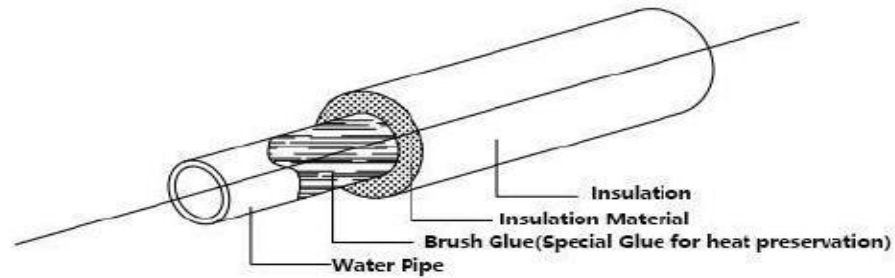
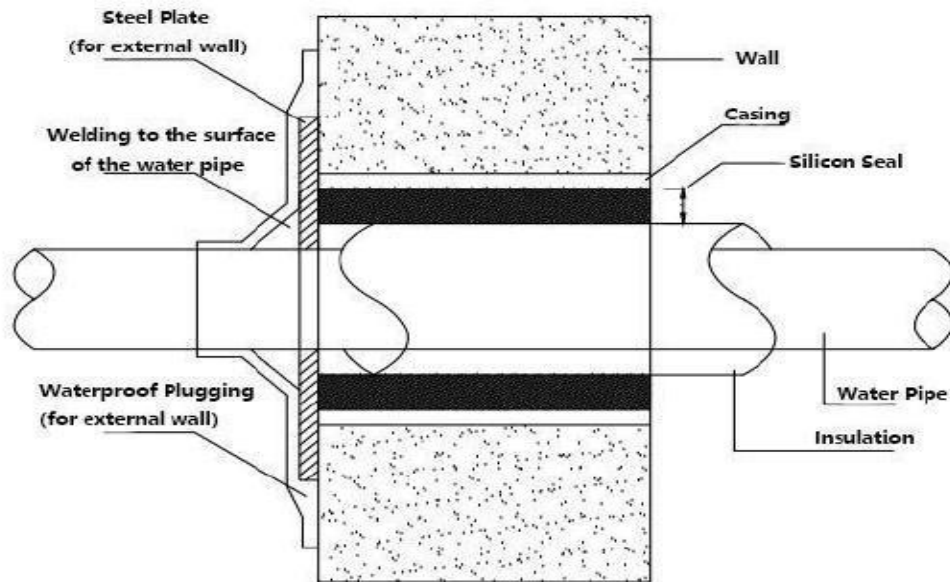
Installation drawing

Ceiling Suspended



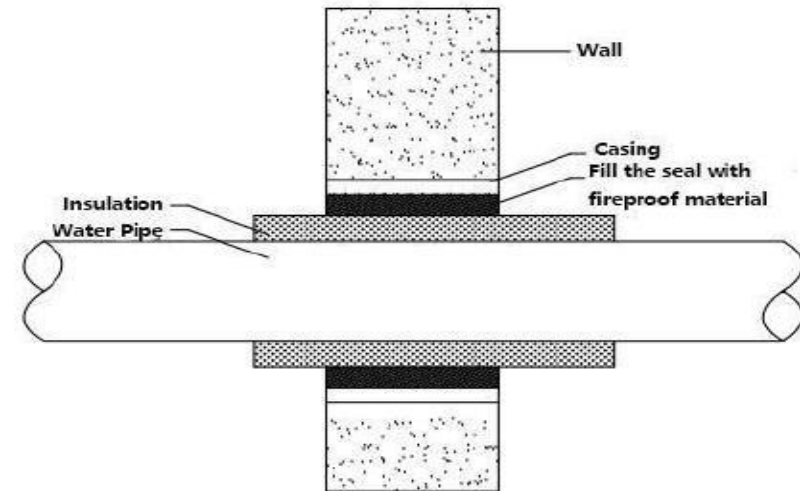
Water Pipe run through the walls

Water Pipe Through the External Wall



Drawing of Water Pipe Insulation

Water Pipe Through the Internal Wall



Application Installation effect

Fan coil units can be widely used in hotels, restaurants, factories, hospitals, exhibition halls, shopping malls, office buildings and other multi-room or large space industrial and civil building occasions. It's used in cooling, dehumidification, heating and so on. Can also be applied to agricultural greenhouse winter heating and livestock cooling and heating.



Certificate Number: SGSNA/26/GZ/00387

Contract Number: 804342
Certificate Project Number: GZ-CERT260201165

Certified Product:	Fan Coil Unit
Trademarks:	APOLLO
Model(s):	AP-CONC-FCU-18K
Technical Data:	110 V, 60 Hz, 60 W

Certificate Holder: MBTEK INC
113 Tamarack Way, T9K 1A2, Fort McMurray, Alberta, Canada

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UL 1995, 5th Edition, Rev. August 01, 2022
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