



AP-FC-GDT Concealed Floor Type Fan Coil Units

AIRPLUS AP-FC Hidden Floor Type Fan Coil Units are the air conditioning devices of the individual use spaces in the buildings where central systems are installed. It is the essential air conditioning device of especially hotels, households, business centers, and shops and common spaces of Shopping Centers. AP-FC-GDT series concealed floor type fan coil devices are manufactured in three different models; four pipe-four row coil, two pipe-three row coil, and two pipe-two row coil.

Product Material

AIRPLUS AP-FC-Hidden Floor Type Fan Coil Units have a body, which is shaped with galvanized sheet. The entire inner body is manufactured with mounting holes drilled for wall mounting. Fan Coils include the main condensation pan coated with 3 mm thermal insulation, which will also prevent perspiration. The condensation from the elements connected to the inlet and outlet water pipes is prevented by adding additional drip pan. High efficiency, low noise level (5 speed / 230 V /50 Hz) direct drive, double suction, and radial fan motors with pvc blades offers lower operating expenses and easy service. Water coils are manufactured from high efficiency, seamless copper pipes and corrugated hydrophilic coated aluminum fins with increased surface area. Thanks to its hydrophilic coating, condensing water is transferred rapidly down to drain pan preventing additional pressure loss on the coil and providing desired constant air flow. Each coil is tested in factory conditions at 24 bar pressure and

Optional Complementary Products

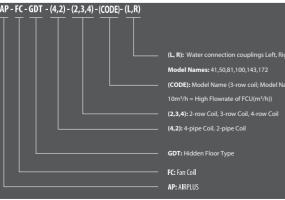
Fan Coil Mechanical Room Thermostat

- For FCU systems with two or four pipes
- Heating / Cooling mode selection
- 3-speed thermostatic fan control
- Motorized valve On/Off control
- Wall surface installation
- 230V AC, 50-60 Hz power supply
- 10°C -30°C temperature control range
- ± 1 ° C temperature accuracy
- 2A Max. current
- Thermostat in dimensions of 130 x 85 x 40 mm

Motorized Valve

- Fan Coil internally thread valve body
- Two-wire 230V AC valve actuator

AP-FC-GDT Type Switches for Selection of Concealed Floor Type FanCoil Units



For FCU systems with two or four pipes Heating / Cooling mode selection 3-speed thermostatic fan control Motorized valve On/Off control Wall surface installation Illuminated LCD display

- 230V AC, 50-60 Hz energy supply

BMS-Compatible Fan Coil Control System

- Communication of Fan Coil unit with MODBUS
- For FCU systems with two or four pipes On Off valve actuator in two pipe systems
- User parameters; fan speed, temperature set point
- Advanced parameters; hysteria, dead band rate, on/off timing, warm-up Limitations on room panel, locking capability
- Able to be used with NTC10K and NTC50K
- Temperature setup capability for warm-up process, automatic activation option
- System turning Off/On according to the open/close state of the windows in the location
- 2-4 pipe floating valve control











installed to the devices. It provides ease of operation and

maintenance with its removable special designed filter skid and cassette filter made of polypropylene material suitable for

washing with water. Protection against impacts and water is

provided by using special designed terminal box for electrical

connections and BMS connection board installation.





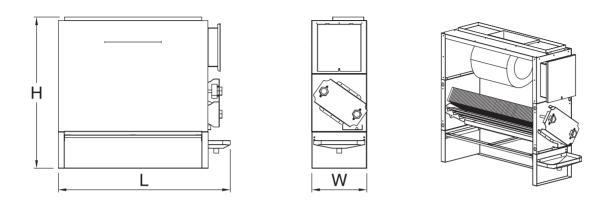








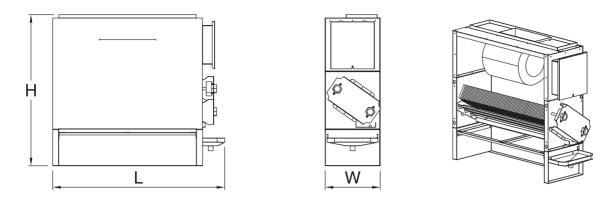
Features, Dimensions, and Heating Capacities of AP-FC-GDT-(2)-(2) Two-Row Two-Pipe Hidden Floor Type Fan Coil Units



Summer Inside KT Temperature and Inside YT Temperature are taken as 27 °C, and 19,5 °C respectively. Winter Inside KT Temperature and Inside YT Temperature are taken as 20 °C, and 13,8 °C respectively. Fluid Input/Output Temperature in Cooling is taken as 7-12 °C. Fluid Input/Output Temperature in Heating is taken as 80-60 °C. Devices have 230 V Voltage Rating. External Static Pressure 0 Pa.

MODEL					AP-FC-GDT-(2)-	(2)-(CODE)-(L,R)		
CODE	SPEED	UNIT	41	50	81	100	143	172
NUMBER OF FANS			1	1	2	2	3	3
FLOWRATE	LOW	m³/h	260	360	520	720	1060	1310
	MEDIUM		350	440	700	880	1265	1560
	HIGH		420	520	840	1040	1500	1815
Noise Level Lw	LOW		41	46	44	49	51	54
	MEDIUM	dB(A)	46	49	49	52	55	55
	HIGH	1	50	50	53	53	56	58
Total Cooling Capacity	LOW		1,2	1,8	2,9	3,5	5	6,4
	MEDIUM	kW	1,4	2	3,5	4	5,6	7,2
	HIGH		1,6	2,3	4	4,5	6,3	7,9
Sensible Heat Cooling Capacity	LOW		1	1,4	2,1	2,8	3,9	4,9
	MEDIUM	kW	1,2	1,6	2,7	3,2	4,4	5,5
	HIGH		1,4	1,8	3	3,6	5	6,2
Heating Capacity	LOW	kW	3,4	4,8	7,2	9,5	13,3	16,5
	MEDIUM		4,2	5,5	8,9	11	15	18,6
	HIGH		4,8	6,2	10,1	12,3	16,8	20,6
Pressure Loss of	LOW	kPa	2	5	17	5	10	18
Fluid Side in	MEDIUM		3	7	24	6	12	22
Cooling	HIGH		4	8	29	7	15	25
Device Current Rating	LOW	A	0,21	0,23	0,42	0,46	0,68	0,76
	MEDIUM		0,23	0,26	0,45	0,51	0,76	0,84
	HIGH		0,25	0,28	0,50	0,56	0,83	0,98
Device Power Rating	LOW	W	43,8	50,0	87,6	100,0	148,7	167,7
	MEDIUM		49,3	56,2	98,6	112,4	166,4	189,0
	HIGH		55,4	63,0	110,8	126,0	185,4	224,6
Nater Input-Output		mm			3,	/4''		
DIMENSIONS / WEIG			1	1	1			1
Width x Height (WxH)		mm	226 x 634	226 x 634	226 x 634	226 x 634	226 x 634	226 x 634
Length (L / L1)			605	730	1030	1300	1490	1765
Weight		kg	27	31	36	41	47	52

Features, Dimensions, and Heating Capacities of AP-FC-GDT-(2)-(3) Three-Row Two-Pipe Hidden Floor Type Fan Coil Units

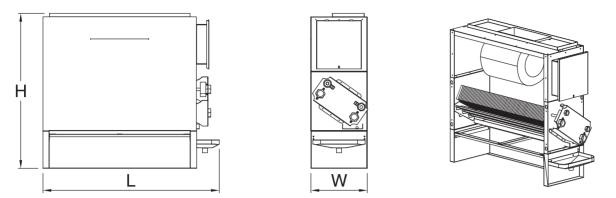


Summer Inside KT Temperature and Inside YT Temperature are taken as 27 °C, and 19,5 °C respectively. Winter Inside KT Temperature and Inside YT Temperature are taken as 20 °C, and 13,8 °C respectively. Fluid Input/Output Temperature in Cooling is taken as 7-12 °C. Fluid Input/Output Temperature in Heating is taken as 80-60 °C. Devices have 230 V Voltage Rating. External Static Pressure 0 Pa.

MODEL					AP-FC-GDT-(2)-	-(3)-(CODE)-(L,R)		
CODE	SPEED	UNIT	41	50	81	100	143	172
NUMBER OF FANS			1	1	2	2	3	3
FLOWRATE	LOW	m³/h	250	350	505	705	1020	1275
	MEDIUM		340	425	675	850	1220	1490
	HIGH		405	500	810	1000	1430	1715
Noise Level Lw	LOW		46	46	49	49	52	54
	MEDIUM	dB(A)	47	50	50	53	55	56
	HIGH	1	50	51	53	54	57	58
Total Cooling Capacity	LOW	kW	1,7	2,5	3,6	4,9	6,4	8,2
	MEDIUM		2,1	2,8	4,5	5,7	7,3	9,2
	HIGH		2,4	3,2	5,1	6,4	8,1	10,2
	LOW		1,2	1,7	2,5	3,4	4,6	5,8
Sensible Heat Cooling Capacity	MEDIUM	kW	1,5	2	3,1	4	5,3	6,6
cooming capacity	HIGH	1	1,8	2,3	3,6	4,5	6	7,3
Heating Capacity	LOW	kW	4,1	5,8	8,4	11,6	15,9	19,9
	MEDIUM		5,3	6,8	10,7	13,5	18,3	22,5
	HIGH		6,1	7,7	12,3	15,4	20,6	25
Pressure Loss of	LOW	kPa	6	14	12	12	8	15
Fluid Side in	MEDIUM		9	18	18	16	10	18
Cooling	HIGH		11	22	23	20	12	21
Device Current	LOW	A	0,20	0,23	0,40	0,45	0,66	0,76
Rating	MEDIUM		0,22	0,26	0,44	0,51	0,74	0,82
2	HIGH		0,25	0,28	0,50	0,55	0,81	0,96
Device Power Rating	LOW	W	42,0	49,4	84,0	98,8	145,5	167,1
	MEDIUM		48,5	55,7	97,0	111,4	164,2	184,8
	HIGH		54,8	61,8	109,6	123,6	183,0	219,9
Water Input-Output Pipe Dia mm		3/4"						
DIMENSIONS / WEIG	GHT				1			
Width x Height (WxH)			226 x 634	226 x 634	226 x 634	226 x 634	226 x 634	226 x 634
Length (L / L1)	ength (L / L1)		605	730	1030	1300	1490	1765
Weight		kg	28	32	37	43	49	54



Features, Dimensions, and Heating Capacities of AP-FC-GDT-(4) Four-Pipe Hidden Floor Type Fan Coil Units



Summer Inside KT Temperature and Inside YT Temperature are taken as 27 °C, and 19,5 °C respectively. Winter Inside KT Temperature and Inside YT Temperature are taken as 20 °C, and 13,8 °C respectively. Fluid Input/Output Temperature in Cooling is taken as 7-12 °C. Fluid Input/Output Temperature in Heating is taken as 80-60 °C. Devices have 230 V Voltage Rating. External Static Pressure 0 Pa.

MODEL					AP-FC-GDT-(4)	-(4)-(CODE)-(L,R)		
CODE	SPEED	UNIT	41	50	81	100	143	172
NUMBER OF FANS			1	1	2	2	3	3
FLOWRATE	LOW		245	345	495	690	1005	1240
	MEDIUM	m³/h	330	415	665	830	1180	1440
	HIGH		400	490	800	975	1370	1625
Noise Level Lw	LOW		46	47	49	50	53	55
	MEDIUM	dB(A)	48	50	51	53	55	56
	HIGH	1	51	52	54	55	57	59
Total Cooling Capacity	LOW		1,7	2,4	3,5	4,8	6,3	8,1
	MEDIUM	kW	2,1	2,8	4,4	5,6	7,1	9
	HIGH	1	2,4	3,2	5,1	6,3	7,9	9,8
Sensible Heat Cooling Capacity	LOW		1,2	1,7	2,4	3,4	4,5	5,7
	MEDIUM	kW	1,5	2	3,1	3,9	5,2	6,4
	HIGH	1	1,8	2,2	3,6	4,4	5,8	7,1
Heating Capacity	LOW		2	2,8	4,2	5,9	7,5	9,3
	MEDIUM	kW	2,4	3,1	5,1	6,5	8,3	10,2
	HIGH		2,7	3,4	5,6	7,2	9	10,9
Pressure Loss of	LOW		6	13	12	12	8	14
Fluid Side in	MEDIUM	kPa	9	17	18	15	10	17
Cooling	HIGH		11	22	23	19	12	20
	LOW	A	0,20	0,22	0,40	0,44	0,66	0,75
Device Current Rating	MEDIUM		0,22	0,25	0,44	0,50	0,74	0,82
natiliy	HIGH		0,25	0,28	0,49	0,55	0,80	0,95
.	LOW	W	42,0	48,5	84,0	97,0	144,0	166,0
Device Power Rating	MEDIUM		47,6	55,3	95,2	110,6	163,5	183,5
	HIGH		54,5	61,3	109,0	122,6	180,0	218,2
Water Input-Output Pipe Dia		3/4"						
Heater Water Input-Output Pipe Dia		1/2"						
DIMENSIONS / WEIG	GHT							
Width x Height (WxH)		mm	226 x 634	226 x 634	226 x 634	226 x 634	226 x 634	226 x 634
Length (L / L1)	ength (L / L1) mm		605	730	1030	1300	1490	1765
Weight kg		kg	30	34	39	44	50	55

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Air Conditioning Technologies

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