

(Compact) Air Conditioner

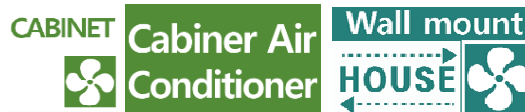


Compact Air Conditioner



Air Conditioner

WC Series for Cabinets and Shelters



DESCRIPTIONS:

The Compact Air Conditioner unit is control the temperature inside small room(cabinet), in case of the cooling is important of the room, the AC unit able to consist the Separate Frame 100% redundant unit, and this unit is suitable for controlling the positive pressure or temperature of the room inside. This system provides cooling, heating(optional), and forced ventilation by positive pressure and using the unit to dilute the flammable gases, toxic gases or vapors inside room through the louvers of the room wall.

The WC series HVAC unit are suitable either for Safe areas or for Zone 1 (or Zone 2) classified areas (according to the EN 60079-10 standard).

MODEL IDENTIFICATION1

Characteristics	Units	AC (Air Conditioning Unit)					
		WC02	WC03	WC04	WC06	WC09	WC11
Cooling Capacity	W	2,240	2,890	3,920	7,500	9,610	11,800
	BTUH	7,600	9,800	13,300	25,500	32,700	40,100
Heating Capacity (Steam – note.2)	KW	0.5 (option)			3 ~ 12		
Max Power Consumption	KW	2.8	3.2	4.2	7.49	9.09	10.79
Dimension Type	-	02	03		1		
Power Input	V/P/F	380~480VAC / 3Ph / 50-60Hz					
System Redundancy	-	Dual Frame			Single / Dual Frame		
Ventilation	-	N/A			Single + Auxiliary blower		
Refrigerant	-	R134a, R407c					
Options	-	N/A			1, 2, 3, 4		

1. Rated at +60°C condensing temperature with 50Hz base (115% for 60 Hz) (R407c refrigerant is subject to have different capacity).
2. Steam Condition: Max. Pressure 6.0 barg / Max. Temperature 160 deg C.
3. Actual capacity may different depending on running condition.
4. Specifications are subject to change without notice.

ORDERING INFORMATION

WC	XX	-	XXX	X	XXX	X	X	-	X
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Cooling Capacity	Volt-Ph-Hz	Classification	Heating	Mounting	Tamb	Options
2 ~11 KW	4: 3(4)xxV~	0: None	NON: N/A	F: Free standing	A: -20 °C to 50 °C	1: Motorized damper
*see the table	3: 3Ph.	B: Zone2, IIB	STM: Steam	W: Wall mount	B: -20 °C to 55 °C	2: Room DPS/DPI
XX.2R: Redundant (Single frame)	6: 60Hz, 5: 50Hz	H: Zone1, IIB+H2	E01~24 KW: Electric	H: Horizontal	C: -20 °C to 60 °C	3: Chemical filter
XX.2X: Redundant (Dual frame)		C: Zone1, IIC				4: Humidity control
* Other specifications by request		M: Interior : IIC Exterior : IIB				(Multiple option selection available)



Ex APPROVAL



IECEX : IECEX DEK 17.0052X
II 2G Ex IIB / IIB+H2 / IIC T3 Gb



ATEX : DERKA 17ATEX0115X
II 2G Ex IIB / IIB+H2 / IIC T3 Gb



ATEX : SIRA 11ATEX6387X
Standard (Zone 1) : II 2G c IIC T3
Optional (Zone 2) : II 3G c IIB T3-External
(II 2G c IIC T3-Internal)



KCs : 16-KA2BO-0530
Ex d e px IIB+H2 T155°C
Standard : Zone 1 IIB+H2 T3

Compact AC system Well-VAC™ WC Series

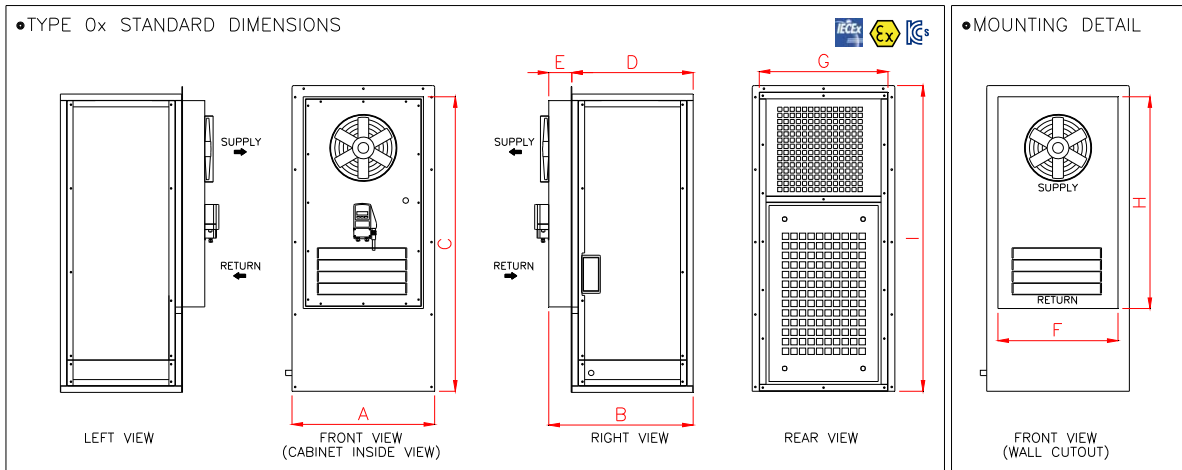
- Up to Zone 1, Gas Group IIB / IIB+H2 / IIC, T3
- Up to Zone 1, Gas Group IIB / IIC, T3 (200°C)
- Up to Zone 1, Gas Group IIB+H2, T155°C (T3)
- For EEx p cabinets, isolated internal section IP54 ensure that no loss of enclosure overpressure occurs
- R134a Non-Ozone Depleting Refrigerant
- Compact type HVAC for a cabinet and shelter
- Automatic condensate draining system
- Ambient temperature (depending on used component) -20 / -40°C to up +60°C
- Temperature controller with indicator, Heating/Cooling mode or Cooling/High temperature alarm
- Wide range of voltage and frequencies available
- Conjunction with suitable heater available

Optional Specification

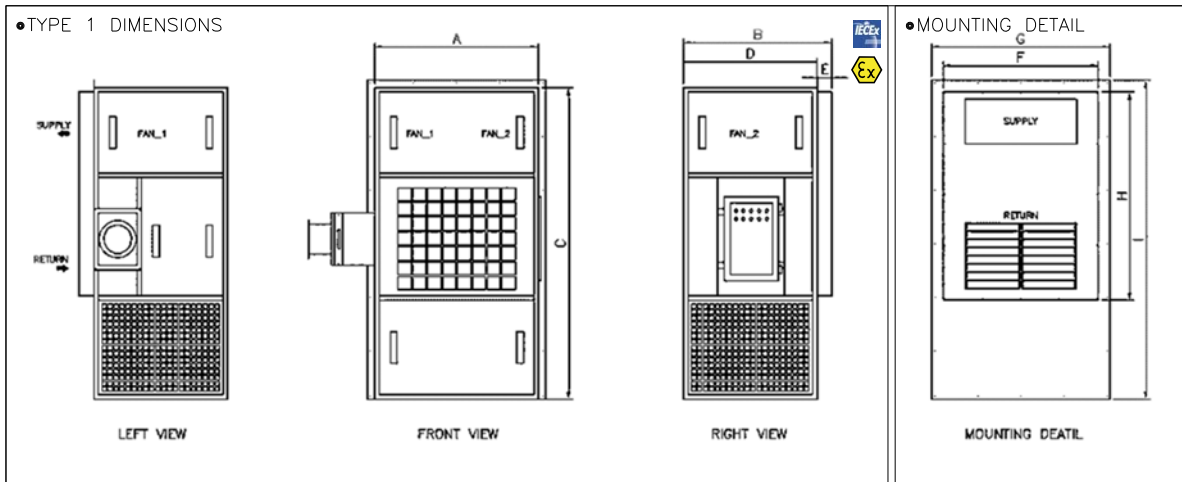
- ❖ Material
-AISI304(default) / - AISI316(alternative)

DIMENSIONS AND APPLICATION

Type 0x ▶



Type 1 ▶



mm	A	B	C	D	E	F	G	H	I
Type 02	604	678	1,404	570	108	544	670	974	1,435
Type 03	604	761	1,404	630	131	544	670	974	1,435
Type 1	1,100	1,000	2,100	900	100	1,040	1,200	1,400	2,150

* Dimension is subject to change as per application.

APPLICATION DATA SHEET

* Other specifications by request

Area & Design Conditions:

Site Location: _____
 Summer Dry Bulb: _____°C, Wet Bulb: _____°C, Humidity _____%RH
 Winter Dry Bulb: _____°C, Wet Bulb: _____°C, Humidity _____%RH
 Internal Requirement : _____°C, _____%RH

Heating Load:

Lights _____Watts, Equipment _____Watts, Personnel(No.) _____
 Humidity Control is required is not required

Additional utilities & environment requirements:

Electric power: _____

Area classification: _____

Building & Internal Heat Load Information:

Dimensions _____ X _____ X _____ (LWH) Meters

Walls Insulation _____ Thickness _____
 Roof Insulation _____ Thickness _____
 Floor Insulation _____ Thickness _____

Building Ventilation and/or Pressurization:

0.2" W.C.(50Pascal) or _____ Air Changes per Hour _____

Additional:

* Additional: High temp. alarm
 * Heating: Elec. _____ 316SS