https://www.ohm.jp/

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OHM News vol.189

Enclosure cooler

COOL CABI

Non-Fluorocarbon

UPDATE

Bottom flow type added!

COOLCABI with an expanded lineup

- Wide input voltage
- IoT-enabled
- Global usage

OHM ELECTRIC CO., LTD.

明日のために、ノンフロン

COOL CABI Non-Fluorocarbon

New Model
COOL CABI

Dramatically evolved “Ease of use” and “Connectivity”

1 Wide input voltage

For versatile power

200↔240V

Designed to be used with voltage range from 200 to 240V. Gives freedom of application regardless voltage conditions.

2 IoT-enabled

Remote monitoring/operation

RS485(Modbus/RTU) available as standard which can be used for monitoring operation, alarm history, setting changes and so on.

3 Global usage

Standard conformity

Approval process for CE, UL and CCC standards is underway

SAFETY

Popular for car air conditioners and vending machines

You can use it safely just like those products in daily use.

ECO-FRIENDLY

GWP of less than 1 *1

Needless to say, Ozone depletion potential (ODP) is zero. Extremely eco-friendly.

*Global warming potential by IPCC 5th Assessment Report 2013

ECONOMY

Saves maintenance and disposal costs

Free from legal inspection of coolers or recovery/destruction of refrigerant required by some laws.

New age of refrigerant - R1234yf

R1234yf has been developed to supersede R134a.

Refrigerant	R1234yf	R134a	R407C
GWP ※1	<1	1300	1624
ODP	0	0	0

nonフロン 明日のために、ノンフロン Non-Fluorocarbon

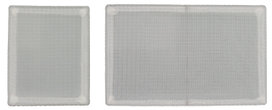
*1: Global warming potential by IPCC 5th Assessment Report 2013

Fan motor

Model - Internal fan	Appicable models of COOLCABI
FM-11938P-AW-01	OCA-H300AC-AW2 OCA-H350BCD-AW2
FM-15038P-AW230-00	OCA-H300BC-AW2 OCA-H600BC-AW2 OCA-H1000BC-AW2 OCA-H1600BC-AW2 OCA-H2200BC-AW2 OCA-H2900BC-AW2 OCA-H700AC-AW2 OCA-H1100AC-AW2 OCA-H1700AC-AW2 OCA-H2300AC-AW2 OCA-H3000AC-AW2 OCA-H700BCD-AW2 OCA-H1300BCD-AW2 OCA-H2300BCD-AW2 OCA-H300BC-AW2-R OCA-H600BC-AW2-R OCA-H1000BC-AW2-R OCA-H1600BC-AW2-R OCA-H2200BC-AW2-R OCA-H2900BC-AW2-R

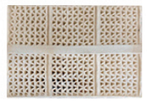
Model - External fan	Appicable models of COOLCABI
FM-15038M-AW230-00	OCA-H300BC-AW2 OCA-H600BC-AW2 OCA-H1000BC-AW2 OCA-H1600BC-AW2 OCA-H2200BC-AW2 OCA-H2900BC-AW2 OCA-H300AC-AW2 OCA-H700AC-AW2 OCA-H1100AC-AW2 OCA-H1700AC-AW2 OCA-H2300AC-AW2 OCA-H3000AC-AW2 OCA-H350BCD-AW2 OCA-H700BCD-AW2 OCA-H1300BCD-AW2 OCA-H2300BCD-AW2 OCA-H300BC-AW2-R OCA-H600BC-AW2-R OCA-H1000BC-AW2-R OCA-H1600BC-AW2-R OCA-H2200BC-AW2-R OCA-H2900BC-AW2-R

Filter



Model	Appicable models of COOLCABI
CF-S1	OCA-H300BC-AW2 OCA-H600BC-AW2 OCA-H300AC-AW2 OCA-H700AC-AW2 OCA-H350BCD-AW2 OCA-H700BCD-AW2 OCA-H300BC-AW2-R OCA-H600BC-AW2-R
CF-S2	OCA-H1000BC-AW2 OCA-H1100AC-AW2 OCA-H1300BCD-AW2 OCA-H2300BCD-AW2 OCA-H1000BC-AW2-R
CF-S3	OCA-H1600BC-AW2 OCA-H1600BC-AW2-R
CF-S4	OCA-H1700AC-AW2
CF-S5	OCA-H2300AC-AW2 OCA-H3000AC-AW2
CF-S7	OCA-H2200BC-AW2 OCA-H2900BC-AW2 OCA-H2200BC-AW2-R OCA-H2900BC-AW2-R

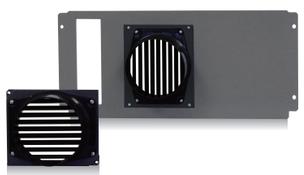
Evaporation sheet



Model	Appicable models of COOLCABI
CJ-S1	OCA-H350BCD-AW2
CJ-S2	OCA-H700BCD-AW2
CJ-S3	OCA-H1300BCD-AW2
CJ-S4	OCA-H2300BCD-AW2

Adjustable louver set

Cool air is directly blown to the heat source to prevent local temperature rise as well as creating uniform temperature in the enclosure.



Duct kit

Use of Duct kit allows cooling from a COOLCABI placed in a separate location.

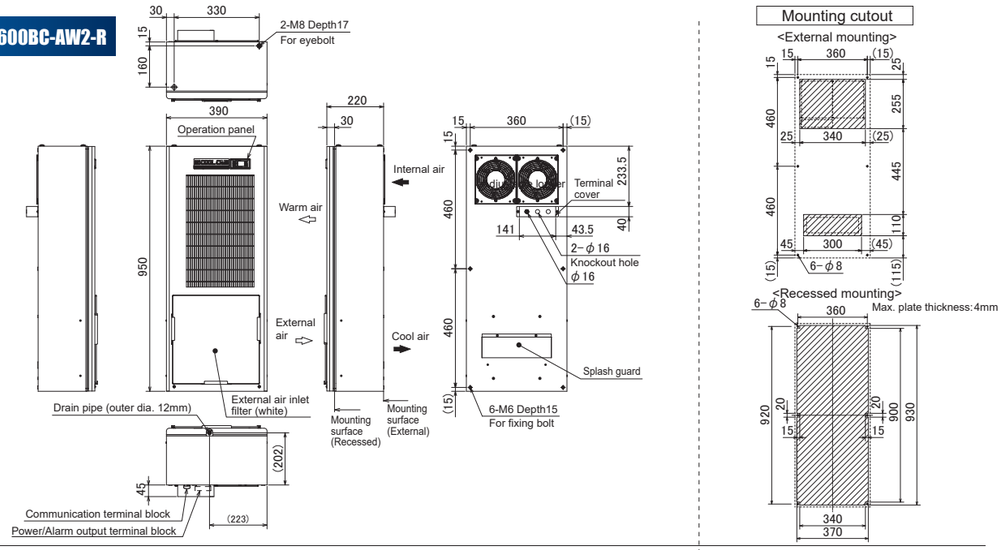
Self-winding filter

The roller winds up filter automatically. Sharply cut your filter maintenance time.

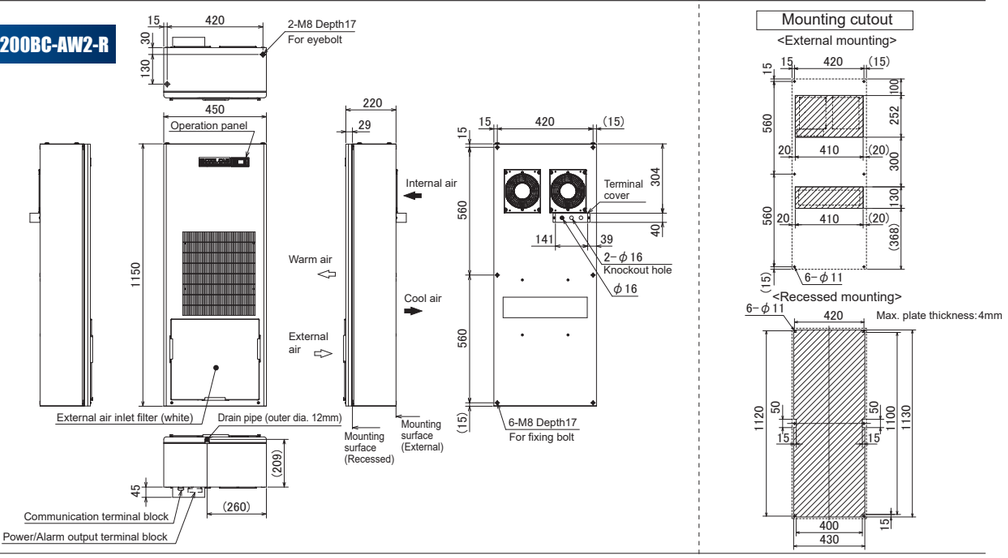
See our website for the details of the above parts.

BOTTOM FLOW TYPE Dimensional drawing

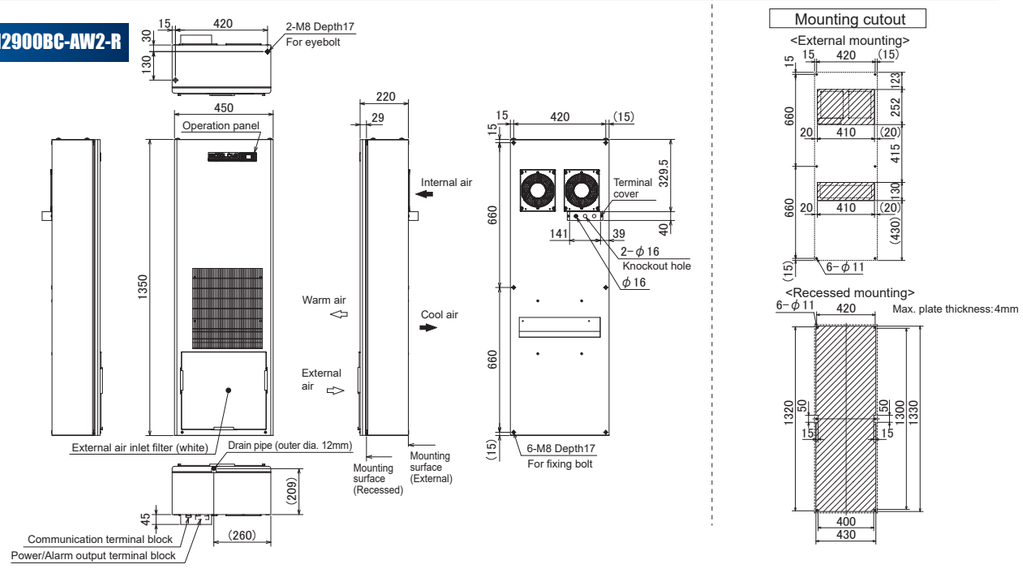
OCA-H1600BC-AW2-R



OCA-H2200BC-AW2-R



OCA-H2900BC-AW2-R



1 Energy Saving

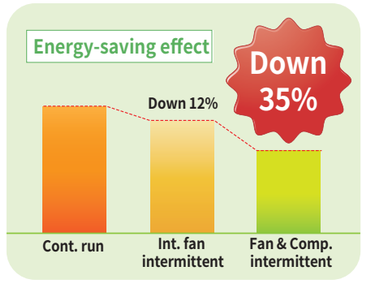
User-selectable operation mode reduce energy use up to 35%

ECO mode

Not only conventional continuous running, customers can select the optimum operation mode from 3 different energy saving modes to minimize energy consumption.

Less energy consumption

- Continuous run
- 1 Internal fan intermittent run
- 2 Compressor-linked fan operation
- 3 Int/ext fans & Comp. intermittent run



2 Dependable Cooling

Short-air-circulation preventive structure eliminates uncooled area

COOLCABI is designed to keep distance between suction port and exhaust port as far as possible.
It makes cool air circulates completely throughout the enclosure interior without causing short-circuiting.

Cool air blows out

Warm air is inhaled

3 Durability, Ease of maintenance

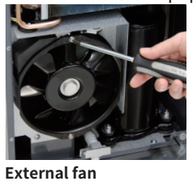
Robust over harsh environment!

Oil and chemical resistant iron-blade fan is used on external side

Simple & secure maintenance

Durable honeycomb filter is reusable by washing.

Detachment of fan is easy and quick with a single screwdriver. Simply connect power via Faston terminal equipped lead wire.



External fan

Internal fan

COOL CABI

STANDARD

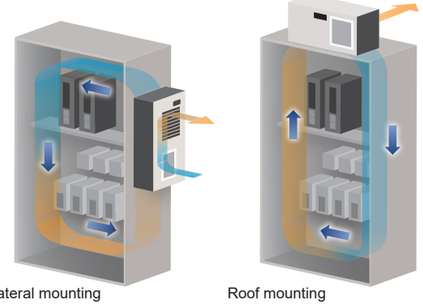
STANDARD TYPE

Features

Lateral/Roof mounting

Versatile lineup offers a variety of choices

Cooling capacity ranging from 300 to 3000W, COOL CABI standard series gives you diverse options from lateral and roof mounting models.



Lateral mounting

Roof mounting

COOL CABI

CONDENSATE-FREE

CONDENSATE-FREE TYPE

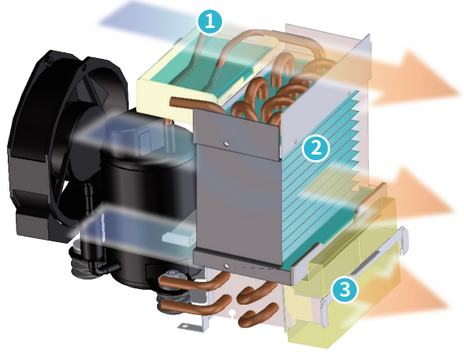
Features

Lateral mounting

Eliminates troublesome drain management works

3-step evaporation system!

No electricity for condensate evaporation



COOL CABI

BOTTOM FLOW

BOTTOM FLOW TYPE

Features

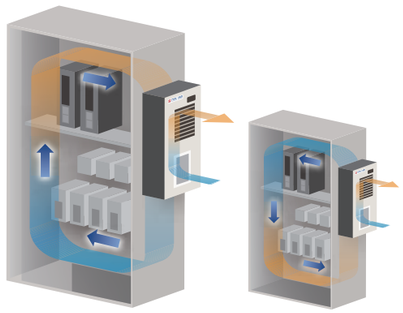
Lateral mounting

Cold air blows out from lower side

Effectively cools components having self-cooling fans

Achieves efficient and speedy cooling by sending cool air directly into the self-cooling fans of precision devices inside the enclosure.

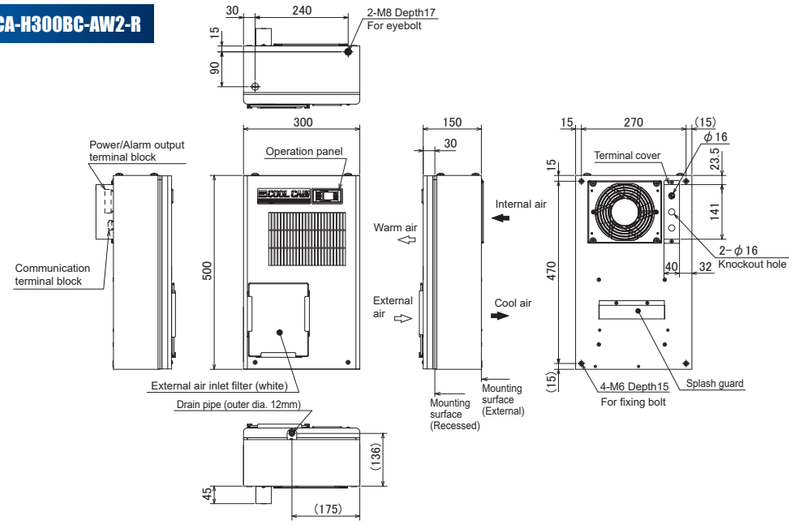
< Airflow image >



Bottom flow type

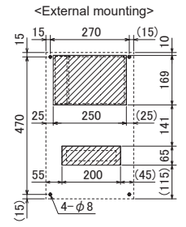
Standard type

OCA-H300BC-AW2-R



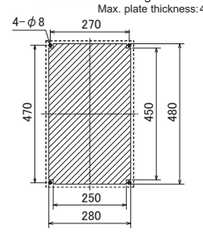
Mounting cutout

<External mounting>

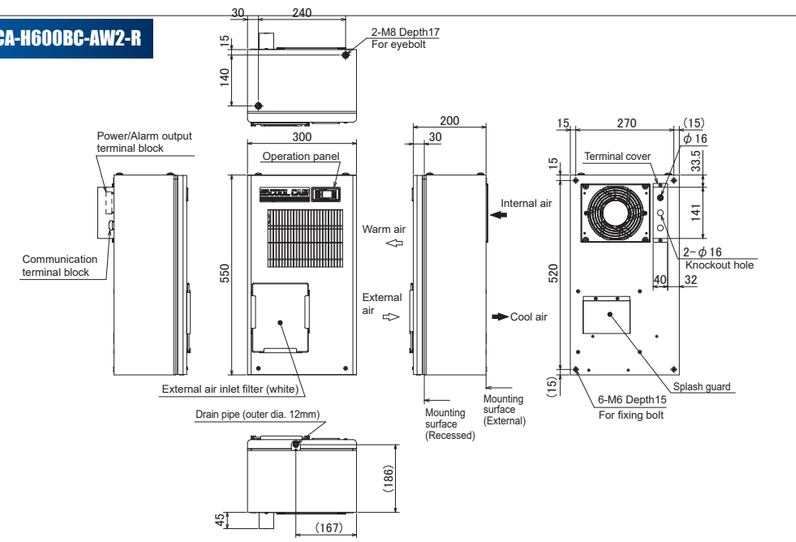


<Recessed mounting>

Max. plate thickness: 4mm

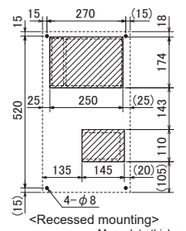


OCA-H600BC-AW2-R



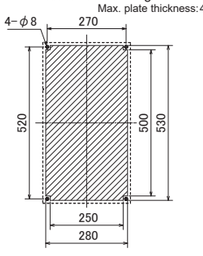
Mounting cutout

<External mounting>

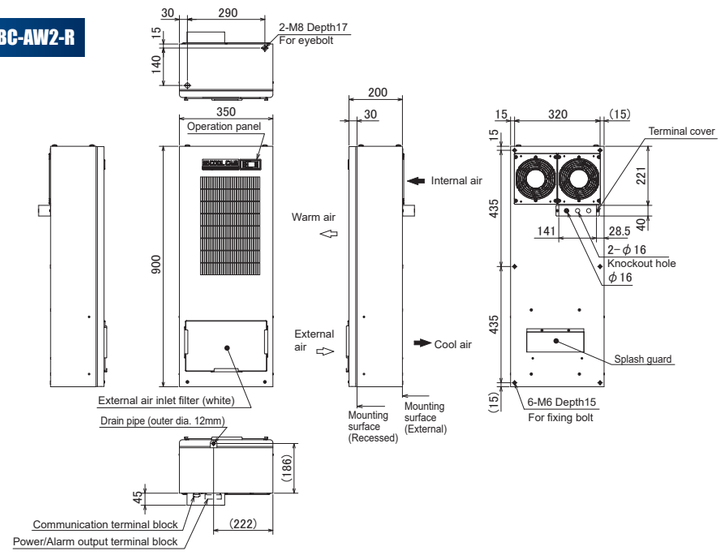


<Recessed mounting>

Max. plate thickness: 4mm

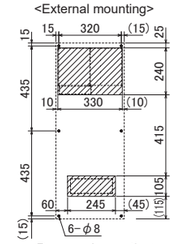


OCA-H1000BC-AW2-R



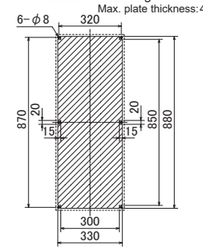
Mounting cutout

<External mounting>



<Recessed mounting>

Max. plate thickness: 4mm



BOTTOM FLOW TYPE

COOL CABI

Cool air blows out from lower side

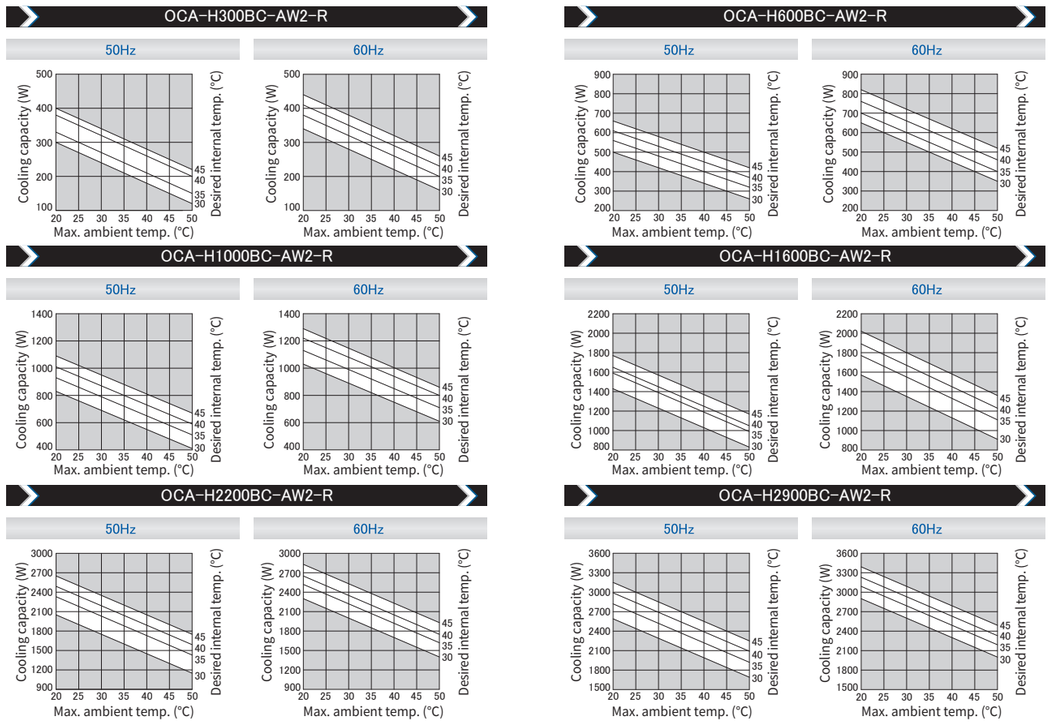
ノンフロン 明日のために、ノンフロン。 Non-Fluorocarbon

Model/Specifications RoHS2

Model		OCA-H300BC-AW2-R	OCA-H600BC-AW2-R	OCA-H1000BC-AW2-R	OCA-H1600BC-AW2-R	OCA-H2200BC-AW2-R	OCA-H2900BC-AW2-R
Type of mounting		Lateral mounting					
Cooling capacity *1		240/290W	440/550W	720/920W	1290/1440W	1880/2070W	2370/2640W
Rated voltage *2		Single phase 200 to 240VAC (50/60Hz)					
Current consumption *3	200V	1.2/1.5A	2.1/2.7A	2.9/3.7A	3.4/4.4A	5.0/5.3A	6.6/7.8A
	220V	1.3/1.5A	2.3/2.7A	3.1/3.7A	3.4/4.5A	5.8/5.1A	6.7/7.4A
	240V	1.5/1.5A	2.8/2.7A	3.5/3.6A	3.4/4.5A	7.4/5.1A	7.4/7.1A
Max. current consump. *3		1.6/1.7A	3.0/3.0A	4.0/4.3A	4.2/5.2A	8.0/6.8A	9.1/10.8A
Starting current		4.9/4.6A	10.3/10.1A	14.5/13.8A	20.7/19.1A	33.3/31.4A	38.1/34.1A
Power consumption *3	200V	230/270W	410/440W	570/690W	660/800W	930/1050W	1290/1540W
	220V	260/310W	490/490W	650/760W	720/860W	1070/1110W	1380/1590W
	240V	320/340W	620/550W	750/840W	790/930W	1300/1210W	1550/1670W
Max. power consump. *3		350/380W	690/630W	890/970W	950/1170W	1530/1480W	1970/2190W
Working temperture *4		+20℃ to +50℃					
Working humidity		Not exceeding 85%RH, free from condensation					
Noise		63dB (A)	64dB (A)	65dB (A)	66dB (A)	66dB (A)	66dB (A)
Temp. setting range *4		+30 to+45℃ (Default +35℃)					
Display		Internal temperature/Alarm code/Operation lamp (Green)/Alarm lamp (Red)					
Function		Off-temperature alarm, Detection of abnormal heat dissipation, Detection of temperature sensor disconnection, Maintenance reminder, Forced cooling operation for inspection					
External output		No-voltage contact output 1a x 2 (COMMON) 250VAC 2A 30VDC 2A					
Communication function		RS485 2-wire system (Modbus RTU)					
Vibration withstand		Vibration frequency10 to 55Hz, Amplitude 0.15mm, Sweep cycle 10 times					
Protection category		Internal circuit IP54 equivalent					
Conformity	Environment	RoHS2					
Refrigerant		R1234yf(130g)	R1234yf(280g)	R1234yf(500g)	R1234yf(780g)	R1234yf(1000g)	R1234yf(1100g)
GWP *5		<1					
Color		Powder coating N8 corresponding, N4 corresponding					
Dimensions (mm) *6		W300×H500×D150	W300×H550×D200	W350×H900×D200	W390×H950×D220	W450×H1150×D220	W450×H1350×D220
Weight		16kg	20kg	33kg	41kg	50kg	62kg

*1 Nominal value when both of internal and external temperatures are +35°C.
*2 The permissible voltage variation during operation is within +5% to -10% to the rated value, which means instantaneous variation and does not mean a supply voltage constantly input.
*3 Nominal values at 35°C temperature both inside and outside are indicated in "Rated" and values at 50°C ambient air are indicated in "Max" .
*4 Use only within the specified temperature range.
*5 By IPCC 5th Report 2013
*6 Excluding projections

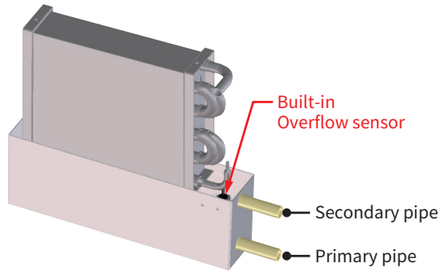
Performance chart



COOL CABI

Complete measures against leakage

All roof-mounted models are equipped with two drain pipes for dual drainage system.
No worry about water leakage.



Easy filter replacement for roof mounted units

Filter at high place can be detached easily. Saves time and trouble for cleaning or replacement work.

1 Evaporation Pan (1st step)

Water resulted from dehumidification that took place in an enclosure will pool in the Evaporation pan. Evaporation coil is equipped in the pan to heat up the water. Heated water will vaporize by the external air that passes above the pan and goes out. Meanwhile, the evaporation coil is cooled by cold drain water, and thus heat radiation rate increases.

2 Evaporation Fin (2nd step)

Residue water in the Evaporation pan will flow to the Evaporation fin. By the high-temperature Evaporation fin and the external air that passes through the fin, the water vaporizes into the atmosphere. Meanwhile, such evaporation takes heat away from the surroundings and it brings about higher heat radiation rate.

3 Evaporation Sheet (3rd step) <Auxiliary>

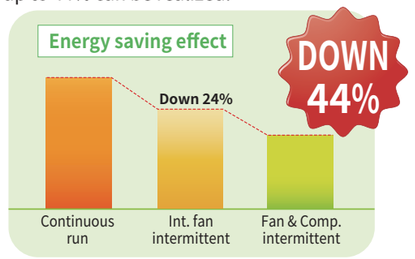
As the final step, the Evaporation sheet absorbs water not evaporated in the Evaporation fin to evaporate it by the hot external air heated by the compressor and the condenser.

Note) This product is designed to process condensate by the above 3-step evaporation mechanism on condition that both internal and external temperature and humidity conditions are under 35 deg. C, 85% RH. Condensate water produced outside the above range is to be discharged through the drain pipe.

Dual energy saving effect brings reduction up to 44%!

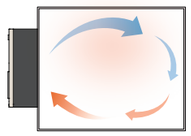
eco ECO mode

The Evaporation Pan and the Evaporation Fin raise heat release efficiency of the refrigerant circuit, thus cooler consumes less power compared to when no condensate water is generated. By using the COOLCABI's energy saving mode, energy reduction up to 44% can be realized.



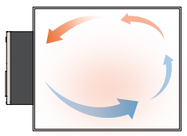
Difference between Standard and Bottom flow

Standard type



Suitable when directly cools heat source located upper side of enclosure

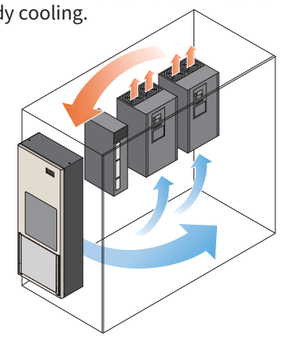
Bottom flow type



Suitable when directly cools heat source located lower side of enclosure

Ideal when fan-equipped components are housed

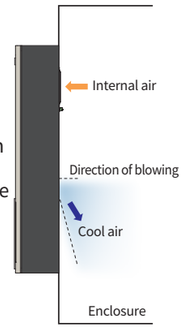
Self-cooling fans of inverters or servo amplifiers suction air from below. Bottom flow type coolers send cool air directly into those self-cooling fans inside the enclosure and achieves efficient and speedy cooling.



Originally designed downward air blow!

Enhances cooling effect by blowing cool air downward

The cool air is directed downward so as not to hit directly electronic components.
It reaches to the bottom of the cabinet to be smoothly inhaled by the self-cooling fans of components.



PRODUCT LINEUP

We offer a wide range of products so you can find the best solution to your needs!

Standard Bottom flow AC200~240V

冷却能力	300W	500W	1000W	1500W	2000W	2500W	3000W

OCA-H300BC-AW2	OCA-H600BC-AW2	OCA-H1000BC-AW2	OCA-H1600BC-AW2	OCA-H2200BC-AW2	OCA-H2900BC-AW2
250/300W	500/610W	800/1000W	1450/1600W	2000/2200W	2600/2900W

Condensate-free Lateral mounting AC200~240V

OCA-H350BCD-AW2	OCA-H700BCD-AW2	OCA-H1300BCD-AW2	OCA-H2300BCD-AW2
300/350W	600/700W	1100/1300W	2100/2300W

Standard Bottom flow AC200~240V

OCA-H300BC-AW2-R	OCA-H600BC-AW2-R	OCA-H1000BC-AW2-R	OCA-H1600BC-AW2-R	OCA-H2200BC-AW2-R	OCA-H2900BC-AW2-R
240/290W	440/550W	720/920W	1290/1440W	1880/2070W	2370/2640W

冷却能力	300W	500W	1000W	1500W	2000W	2500W	3000W

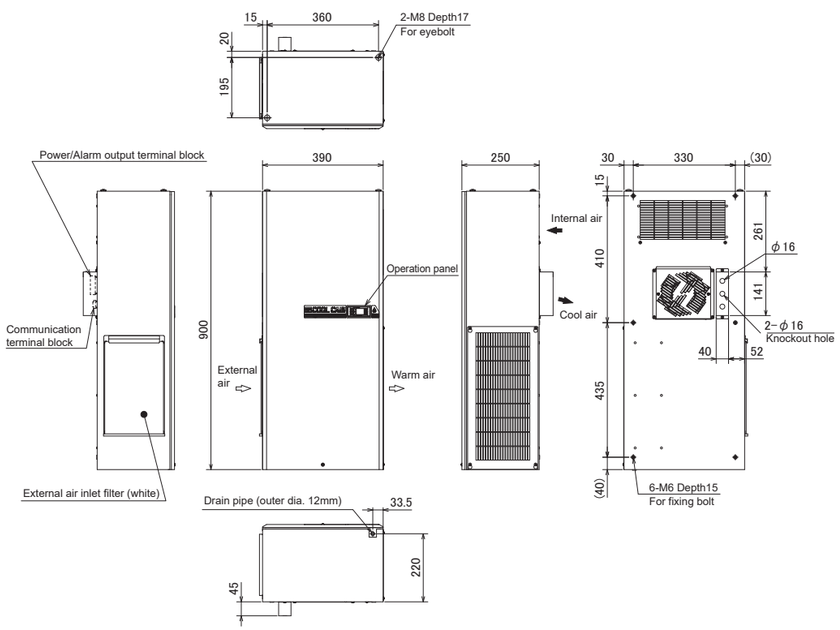
Standard Roof mounting AC200~240V

OCA-H300AC-AW2	OCA-H700AC-AW2	OCA-H1100AC-AW2	OCA-H1700AC-AW2	OCA-H2300AC-AW2	OCA-H3000AC-AW2
300/350W	600/700W	950/1100W	1550/1700W	2100/2300W	2700/3000W

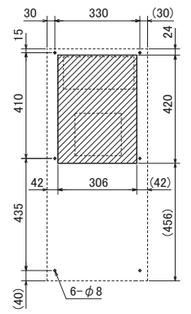
CONDENSATE-FREE TYPE Dimensional drawing

COOL CABI

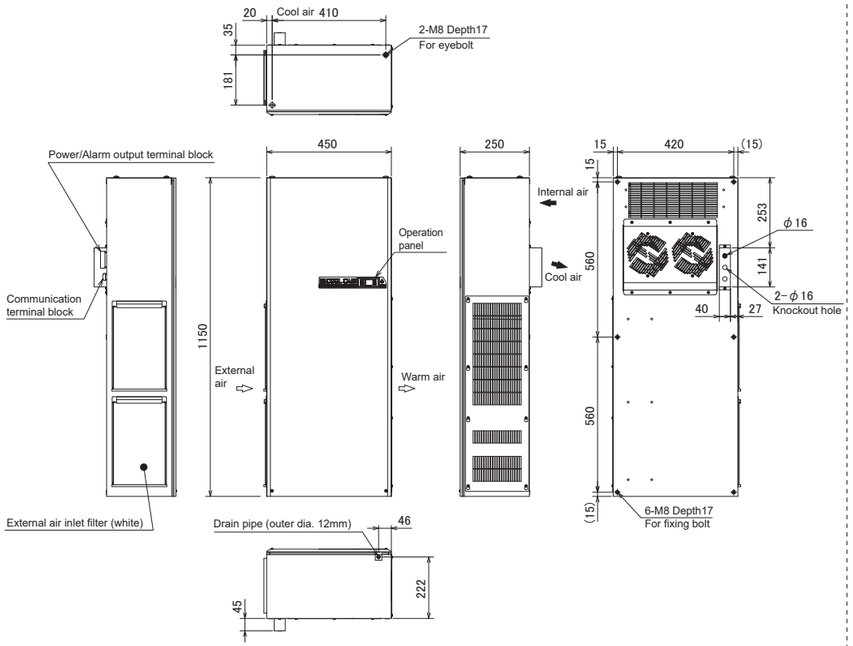
OCA-H1300BCD-AW2



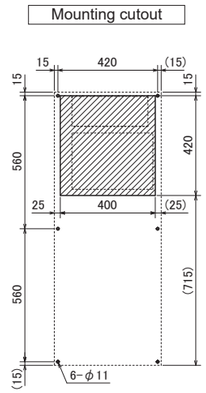
Mounting cutout



OCA-H2300BCD-AW2

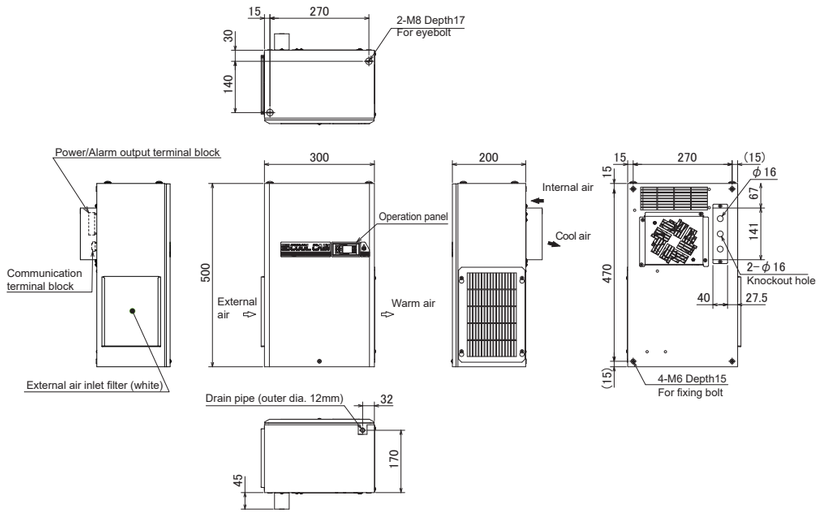


Mounting cutout

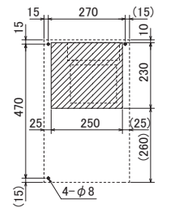


CONDENSATE-FREE TYPE Dimensional drawing

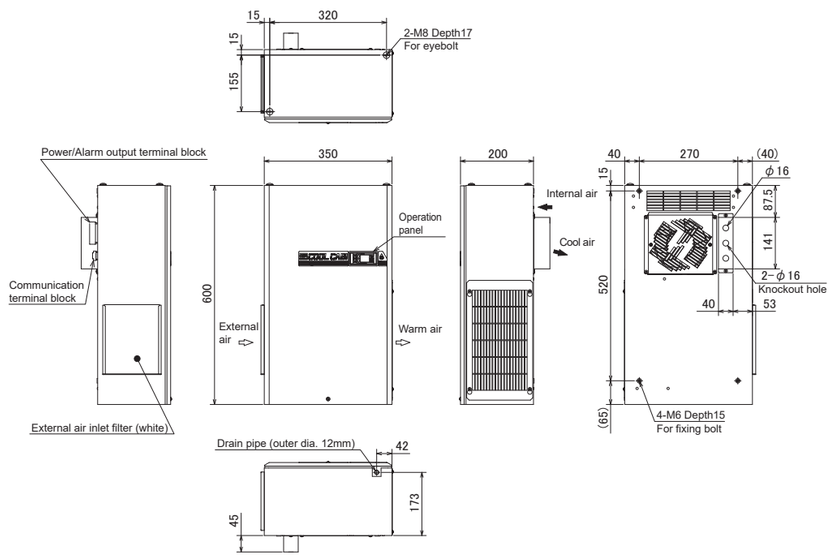
OCA-H350BCD-AW2



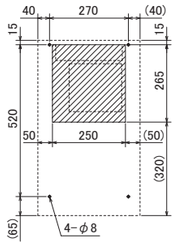
Mounting cutout



OCA-H700BCD-AW2



Mounting cutout



STANDARD TYPE - Wall mounting

COOL CABI

Available from wide range of coooling capacity

Non-Fluorocarbon

Model/Specifications

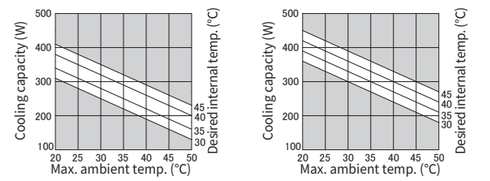
RoHS2

Model		OCA-H300BC-AW2	OCA-H600BC-AW2	OCA-H1000BC-AW2	OCA-H1600BC-AW2	OCA-H2200BC-AW2	OCA-H2900BC-AW2
Type of mounting		Lateral mounting					
Cooling capacity *1		250/300W	500/610W	800/1000W	1450/1600W	2000/2200W	2600/2900W
Rated voltage *2		Single phase 200 to 240VAC (50/60Hz)					
Current consumption *3	200V	1.2/1.5A	2.1/2.7A	2.9/3.7A	3.4/4.4A	5.0/5.3A	6.6/7.8A
	220V	1.3/1.5A	2.3/2.7A	3.1/3.7A	3.4/4.5A	5.8/5.1A	6.7/7.4A
	240V	1.5/1.5A	2.8/2.7A	3.5/3.6A	3.4/4.5A	7.4/5.1A	7.4/7.1A
Max. current consump. *3		1.6/1.7A	3.0/3.0A	4.0/4.3A	4.2/5.2A	8.0/6.8A	9.1/10.8A
Starting current		4.9/4.6A	10.3/10.1A	14.5/13.8A	20.7/19.1A	33.3/31.4A	38.1/34.1A
Power consumption *3	200V	230/270W	410/440W	570/690W	660/800W	930/1050W	1290/1540W
	220V	260/310W	490/490W	650/760W	720/860W	1070/1110W	1380/1590W
	240V	320/340W	620/550W	750/840W	790/930W	1300/1210W	1550/1670W
Max. power consump. *3		350/380W	690/630W	890/970W	950/1170W	1530/1480W	1970/2190W
Working temperture *4		+20℃ to +50℃					
Working humidity		Not exceeding 85%RH, free from condensation					
Noise		63dB (A)	64dB (A)	65dB (A)	66dB (A)	66dB (A)	66dB(A)
Temp. setting range *4		+30 to+45℃ (Default +35℃)					
Display		Internal temperature/Alarm code/Operation lamp (Green)/Alarm lamp (Red)					
Function		Off-temperature alarm, Detection of abnormal heat dissipation, Detection of temperature sensor disconnection, Maintenance reminder, Forced cooling operation for inspection					
External output		No-voltage contact output 1a x 2 (COMMON) 250VAC 2A 30VDC 2A					
Communication function		RS485 2-wire system (Modbus RTU)					
Vibration withstand		Vibration frequency10 to 55Hz, Amplitude 0.15mm, Sweep cycle 10 times					
Protection category		Internal circuit IP54 equivalent					
Conformity	Environment	RoHS2					
Refrigerant		R1234yf(130g)	R1234yf(280g)	R1234yf(500g)	R1234yf(780g)	R1234yf(1000g)	R1234yf(1100g)
GWP *5		<1					
Color		Powder coating N8 corresponding, N4 corresponding					
Dimensions (mm) *6		W300×H500×D150	W300×H550×D200	W350×H900×D200	W390×H950×D220	W450×H1150×D220	W450×H1350×D220
Weight		16kg	20kg	33kg	41kg	50kg	62kg

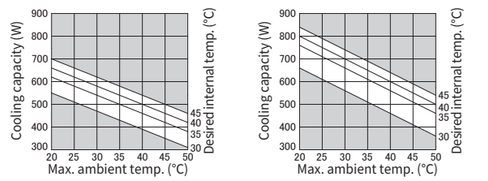
*1 Nominal value when both of internal and external temperatures are +35℃. By attaching the provided louver, the capacity reduces by up to 5% (*Lateral mounting type only).
*2 The permissible voltage variation during operation is within +5% to -10% to the rated value, which means instantaneous variation and does not mean a supply voltage constantly input.
*3 Nominal values at 35℃ temperature both inside and outside are indicated in “Rated” and values at 50℃ ambient air are indicated in “Max” .
*4 Use only within the specified temperature range.
*5 By IPCC 5th Report 2013
*6 Excluding projections

Performance chart

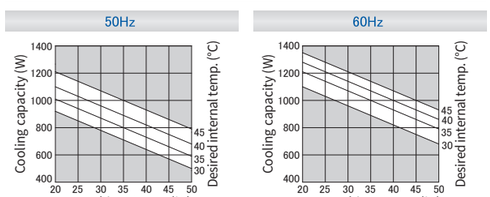
OCA-H300BC-AW2



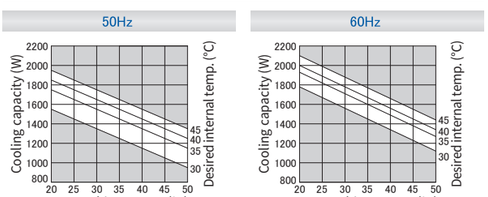
OCA-H600BC-AW2



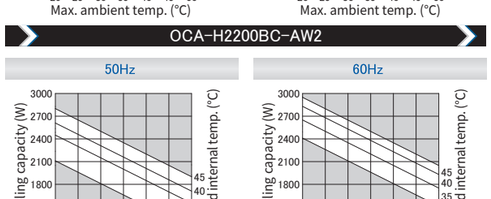
OCA-H1000BC-AW2



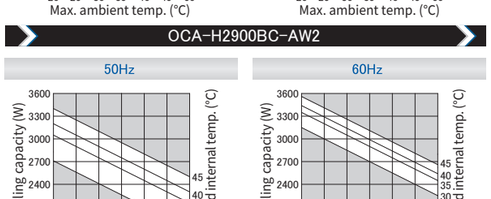
OCA-H1600BC-AW2



OCA-H2200BC-AW2

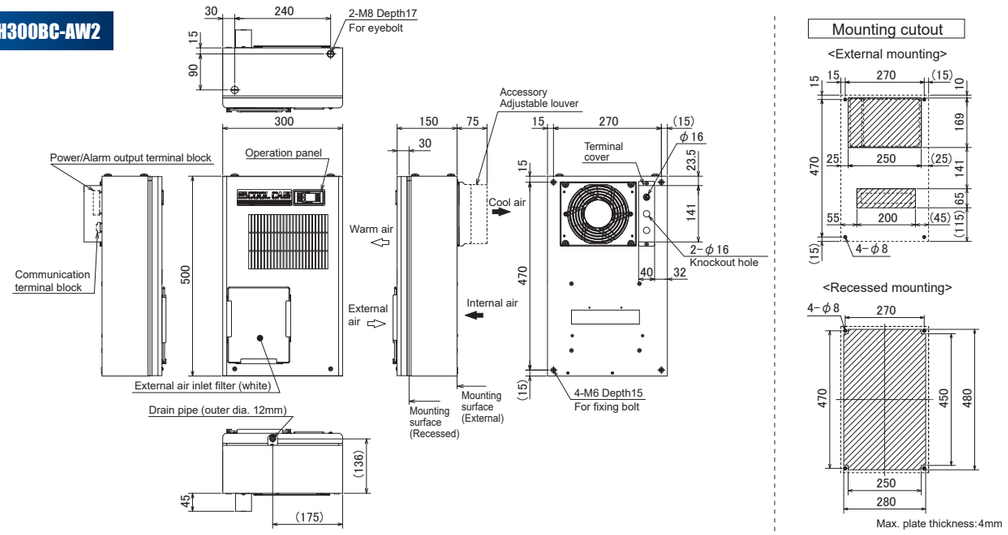


OCA-H2900BC-AW2



STANDARD TYPE - Wall mounting Dimensional drawing

OCA-H300BC-AW2



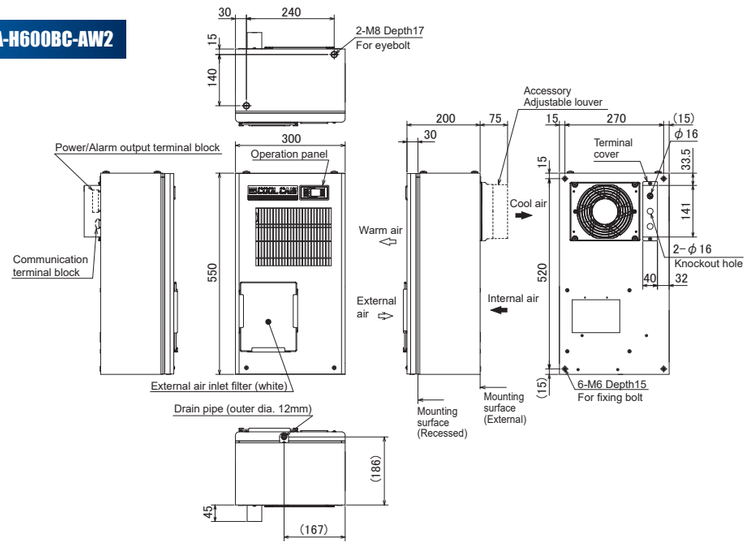
Mounting cutout

<External mounting>

<Recessed mounting>

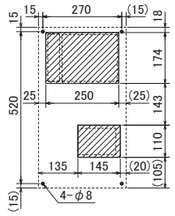
Max. plate thickness:4mm

OCA-H600BC-AW2

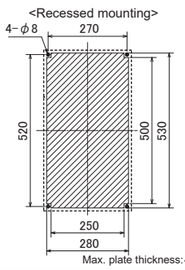


Mounting cutout

<External mounting>

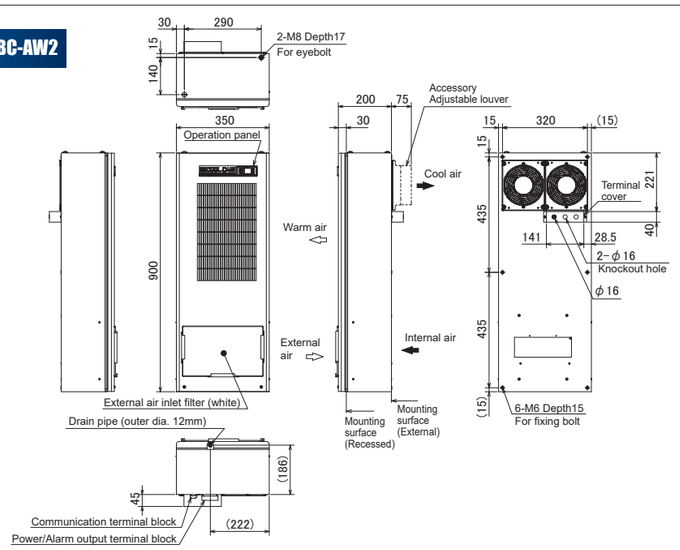


<Recessed mounting>



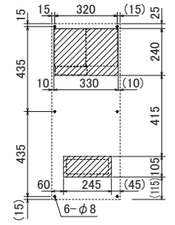
Max. plate thickness:4mm

OCA-H1000BC-AW2

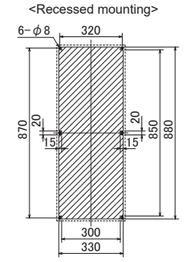


Mounting cutout

<External mounting>



<Recessed mounting>



Max. plate thickness:4mm

CONDENSATE-FREE TYPE

COOL CABI

3-step evaporation system eliminates time and trouble for drain management

nonフロン 明日のために、ノンフロン。

Non-Fluorocarbon

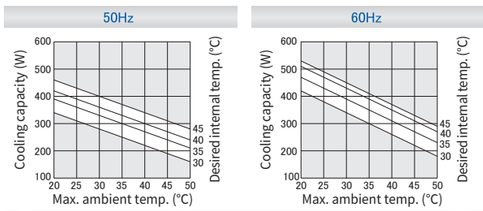
Model/Specifications RoHS2

Model		OCA-H350BCD-AW2	OCA-H700BCD-AW2	OCA-H1300BCD-AW2	OCA-H2300BCD-AW2
Type of mounting		Lateral mounting			
Cooling capacity *1		300/350W	600/700W	1100/1300W	2100/2300W
Rated voltage *2		Single phase 200 to 240VAC (50/60Hz)			
Current consumption *3	200V	1.1/1.4A	2.1/2.7A	2.7/3.5A	5.3/5.6A
	220V	1.1/1.4A	2.3/2.7A	2.9/3.5A	6.0/5.4A
	240V	1.3/1.4A	2.8/2.7A	3.3/3.4A	7.5/5.4A
	*3	1.5/1.6A	3.1/3.1A	3.8/4.1A	8.1/7.3A
Starting current		4.8/4.7A	10.5/10.0A	15.9/14.4A	35.1/30.9A
Power consumption *3	200V	210/260W	410/440W	530/660W	990/1100W
	220V	240/280W	500/480W	600/710W	1120/1180W
	240V	280/310W	620/540W	690/780W	1340/1270W
	*3	340/360W	710/640W	830/930W	1610/1560W
Working temperture *4		+20℃ to +50℃			
Working humidity		Not exceeding 85%RH, free from condensation			
Noise		64dB (A)	64dB (A)	62dB (A)	65dB (A)
Temp. setting range *4		+30 to+45℃ (Default +35℃)			
Cond. for condensate-free		+35℃ , not exceeding 85%RH			
Display		Internal temperature/Alarm code/Operation lamp (Green)/Alarm lamp (Red)			
Function		Off-temperature alarm, Detection of abnormal heat dissipation, Detection of temperature sensor disconnection, Maintenance reminder, Forced cooling operation for inspection			
External output		No-voltage contact output 1a x 2 (COMMON) 250VAC 2A 30VDC 2A			
Communication function		RS485 2-wire system (Modbus RTU)			
Vibration withstand		Vibration frequency10 to 55Hz, Amplitude 0.15mm, Sweep cycle 10 times			
Protection category		Internal circuit IP54 equivalent			
Conformity Environment		RoHS2			
Refrigerant		R1234yf(160g)	R1234yf(300g)	R1234yf(450g)	R1234yf(1000g)
GWP *5		<1			
Color		Powder coating N8 corresponding, N4 corresponding			
Dimensions (mm) *6		W300×H500×D200	W350×H600×D200	W390×H900×D250	W450×H1150×D250
Weight		20kg	23kg	34kg	53kg

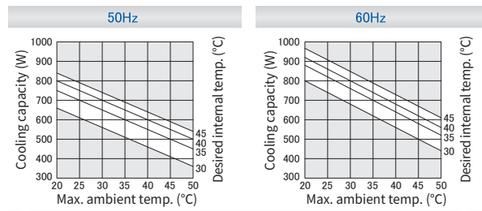
*1 Nominal value when both of internal and external temperatures are +35℃.
*2 The permissible voltage variation during operation is within +5% to -10% to the rated value, which means instantaneous variation and does not mean a supply voltage constantly input.
*3 Nominal values at 35℃ temperature both inside and outside are indicated in “Rated” and values at 50℃ ambient air are indicated in “Max” .
*4 Use only within the specified temperature range.
*5 By IPCC 5th Report 2013
*6 Excluding projections

Performance chart

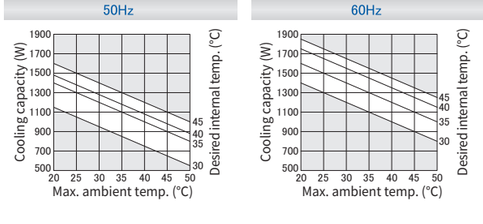
OCA-H350BCD-AW2



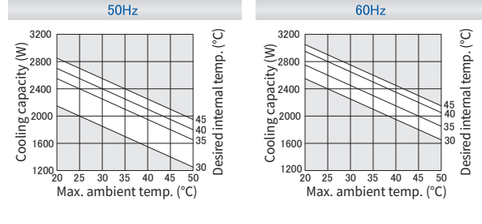
OCA-H700BCD-AW2



OCA-H1300BCD-AW2

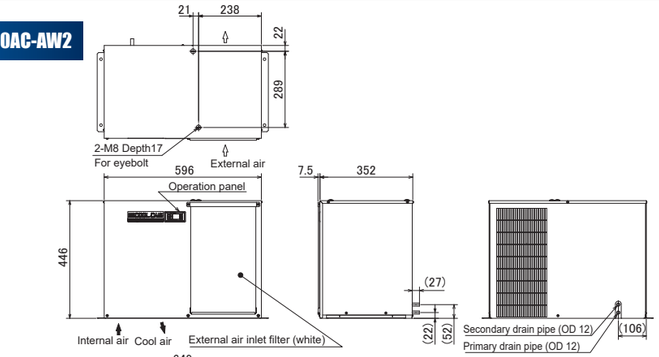


OCA-H2300BCD-AW2

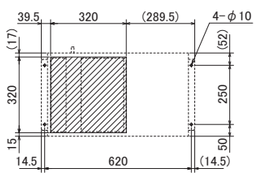


STANDARD TYPE - Roof mounting Dimensional drawing

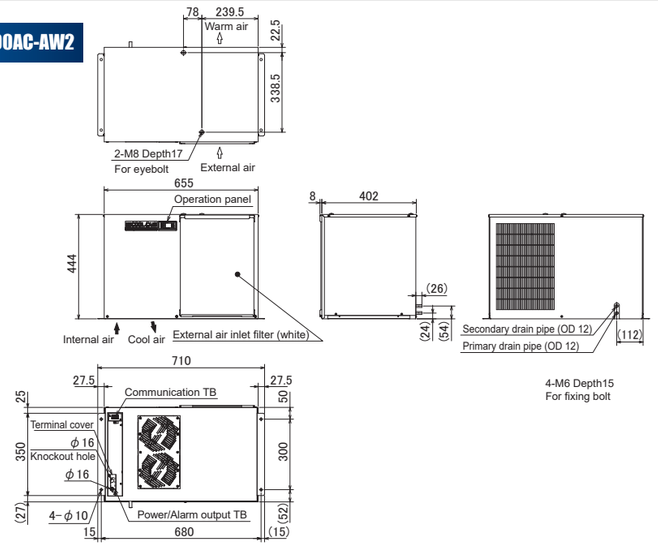
OCA-H1700AC-AW2



Mounting cutout

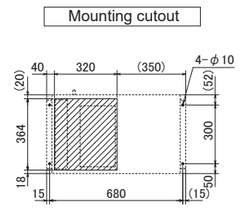


OCA-H2300AC-AW2

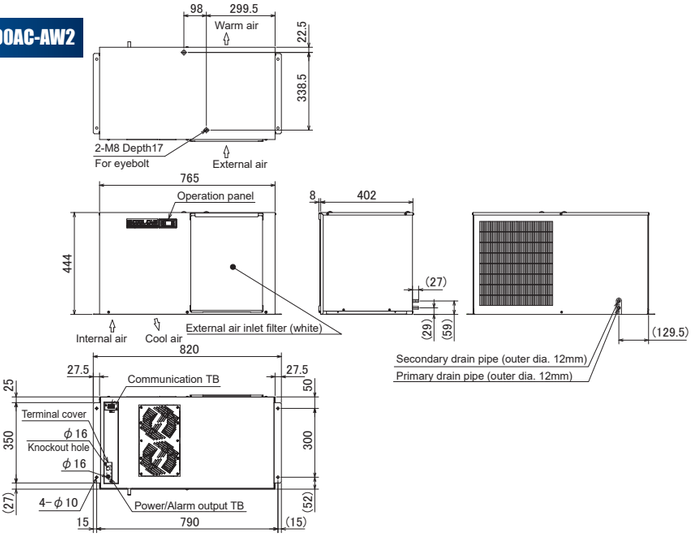


4-M6 Depth15
For fixing bolt

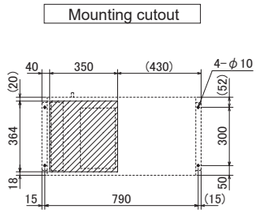
Mounting cutout



OCA-H3000AC-AW2



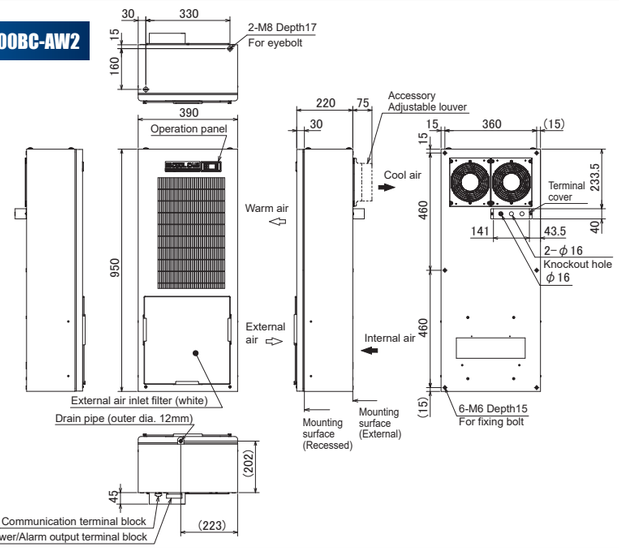
Mounting cutout



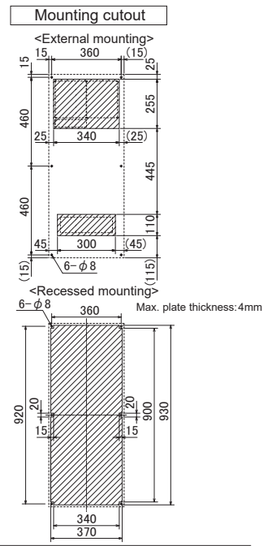
STANDARD TYPE - Wall mounting Dimensional drawing

COOL CABI

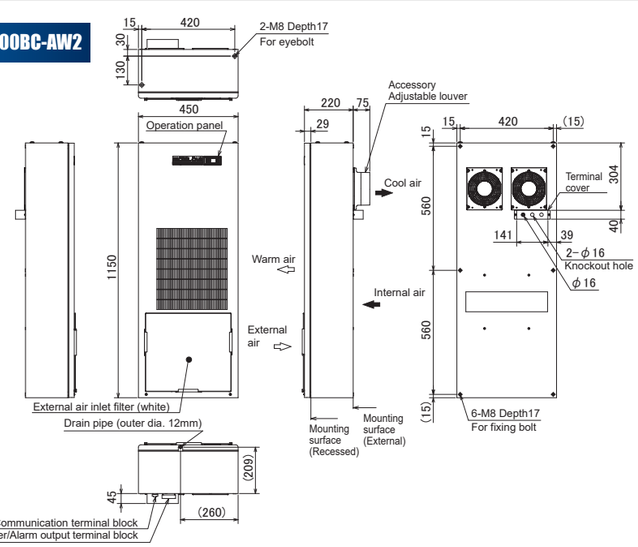
OCA-H1600BC-AW2



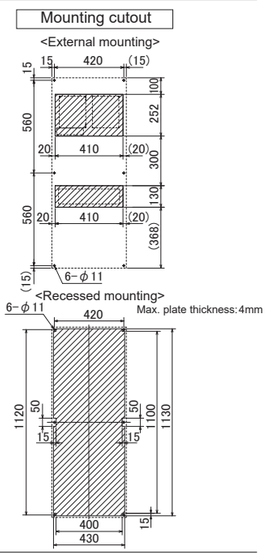
Mounting cutout



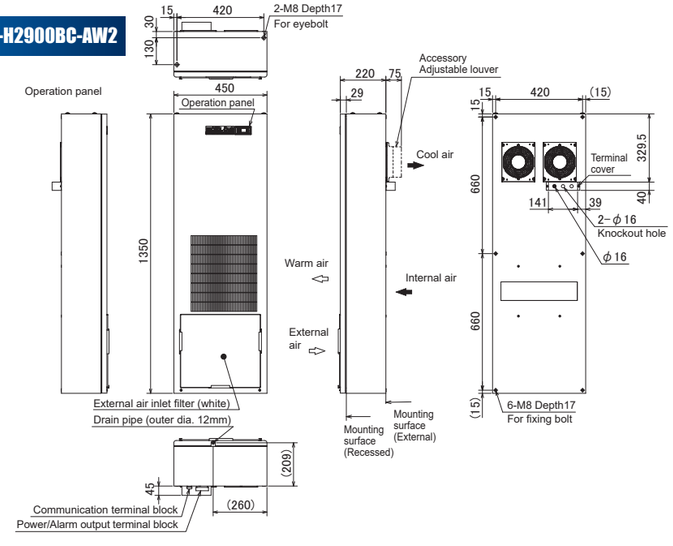
OCA-H2200BC-AW2



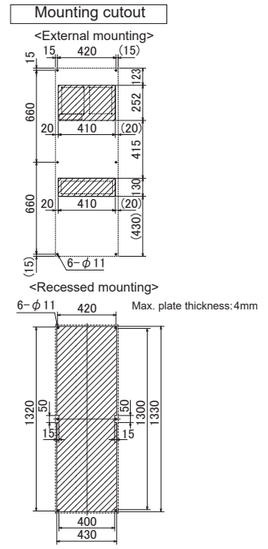
Mounting cutout



OCA-H2900BC-AW2



Mounting cutout



STANDARD TYPE - Roof mounting

Available from wide range of coooling capacity

Non-Fluorocarbon
明日のために、ノンフロン。

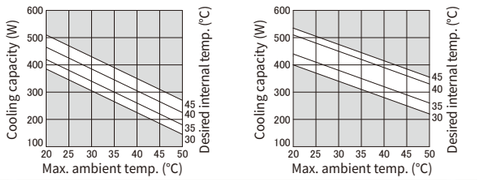
Model/Specifications RoHS2

Model		OCA-H300AC-AW2	OCA-H700AC-AW2	OCA-H1100AC-AW2	OCA-H1700AC-AW2	OCA-H2300AC-AW2	OCA-H3000AC-AW2
Type of mounting		Roof mounting					
Cooling capacity *1		300/350W	600/700W	950/1100W	1550/1700W	2100/2300W	2700/3000W
Rated voltage *2		Single phase 200 to 240VAC (50/60Hz)					
Current consumption *3	200V	1.1/1.4A	2.0/2.7A	3.0/3.7A	3.4/4.5A	5.1/5.5A	6.3/7.4A
	220V	1.1/1.4A	2.2/2.7A	3.2/3.7A	3.4/4.5A	5.8/5.3A	6.5/7.1A
	240V	1.3/1.4A	2.7/2.6A	3.6/3.6A	3.4/4.6A	7.4/5.2A	7.3/6.9A
Max. current consump. *3		1.5/1.6A	2.9/3.1A	4.0/4.4A	4.3/5.4A	8.0/7.0A	8.7/9.7A
Starting current		4.6/4.6A	10.7/10.4A	14.5/13.6A	21.2/19.5A	35.5/32.1A	37.7/36.3A
Power consumption *3	200V	210/260W	390/440W	580/700W	660/820W	950/1080W	1250/1460W
	220V	240/280W	470/470W	660/770W	720/870W	1080/1150W	1360/1530W
	240V	280/310W	610/530W	760/840W	790/950W	1310/1230W	1520/1630W
Max. power consump. *3		330/360W	680/630W	880/980W	980/1160W	1560/1520W	1850/2080W
Working temperture *4		+20℃ to +50℃					
Working humidity		Not exceeding 85%RH, free from condensation					
Noise		61dB (A)	60dB (A)	63dB (A)	64dB (A)	65dB (A)	64dB (A)
Temp. setting range *4		+30 to+45℃ (Default +35℃)					
Display							
Function		Off-temperature alarm, Detection of abnormal heat dissipation, Detection of temperature sensor disconnection, Maintenance reminder Forced cooling operation for inspection, Detection of drain overflows, Detection of evaporator ice-up					
External output		No-voltage contact output 1a x 2 (COMMON) 250VAC 2A 30VDC 2A					
Communication function		RS485 2-wire system (Modbus RTU)					
Vibration withstand		Vibration frequency10 to 55Hz, Amplitude 0.15mm, Sweep cycle 10 times					
Protection category		Internal circuit IP54 equivalent					
Conformity | Environment		RoHS2					
Refrigerant		R1234yf(140g)	R1234yf(240g)	R1234yf(400g)	R1234yf(650g)	R1234yf(700g)	R1234yf(1100g)
GWP *5		<1					
Color		Powder coating N8 corresponding, N4 corresponding					
Dimensions (mm) *6		W454×H230×D252	W551×H330×D272	W603×H349×D354	W596×H446×D352	W655×H444×D402	W765×H444×D402
Weight		18kg	26kg	35kg	42kg	49kg	60kg

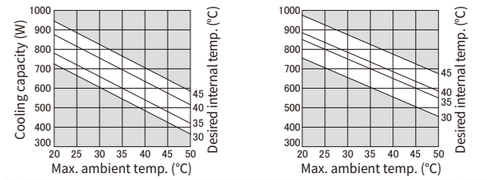
*1 Nominal value when both of internal and external temperatures are +35°C.
*2 The permissible voltage variation during operation is within +5% to -10% to the rated value, which means instantaneous variation and does not mean a supply voltage constantly input.
*3 Nominal values at 35°C temperature both inside and outside are indicated in “Rated” and values at 50°C ambient air are indicated in “Max” .
*4 Use only within the specified temperature range.
*5 By IPCC 5th Report 2013
*6 Excluding projections

Performance chart

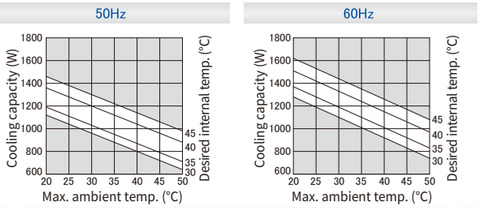
OCA-H300AC-AW2



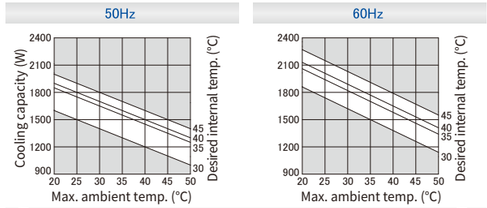
OCA-H700AC-AW2



OCA-H1100AC-AW2



OCA-H1700AC-AW2



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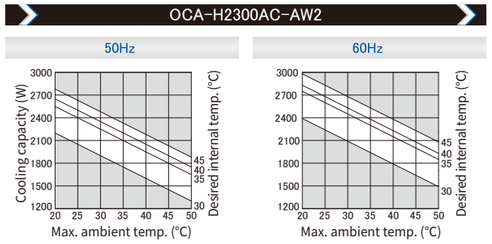
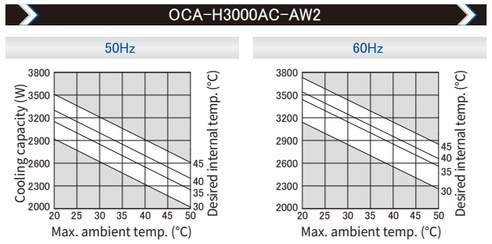


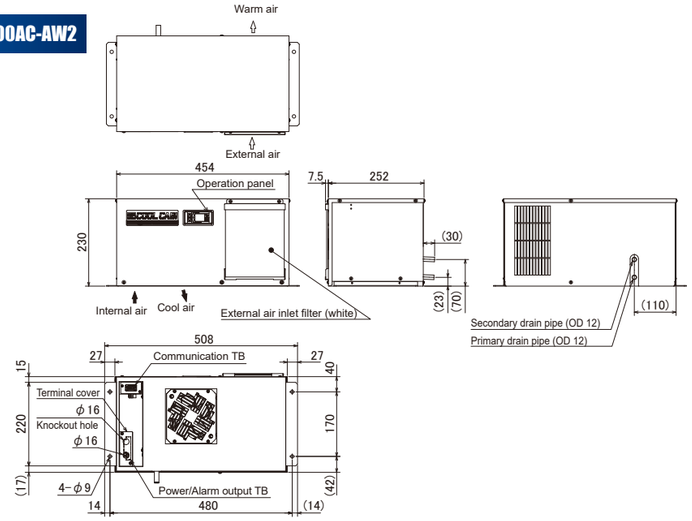
OCA-H3000AC-AW2



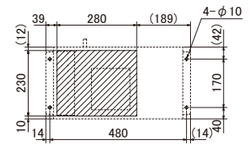
STANDARD TYPE - Roof mounting Dimensional drawing

COOL CABI

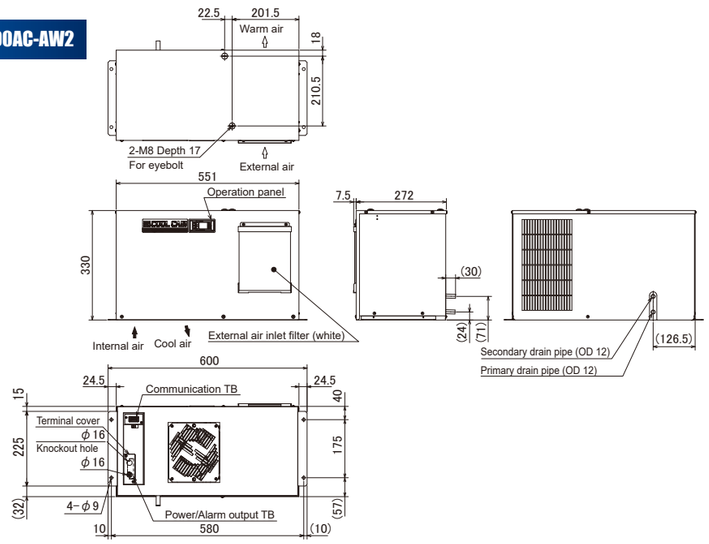
OCA-H300AC-AW2



Mounting cutout



OCA-H700AC-AW2



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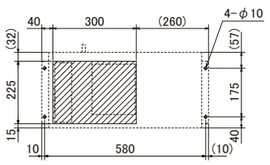

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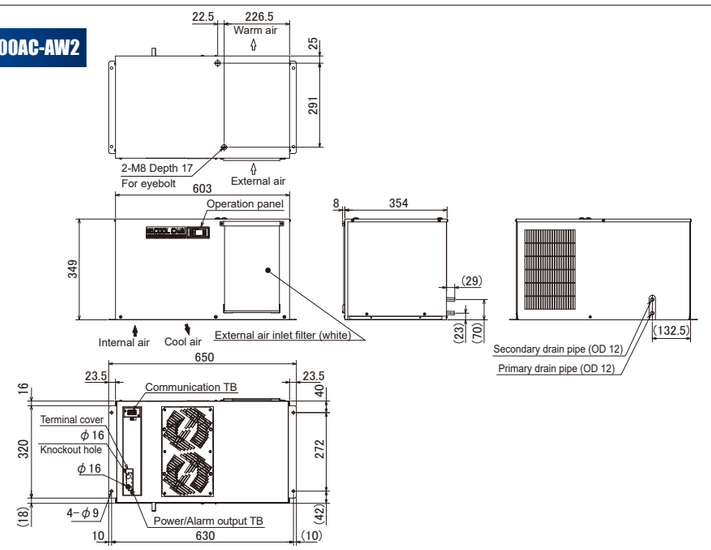

Mounting cutout