

COOLBLADE

Modular Air-cooled Unit with Inverter Compressor

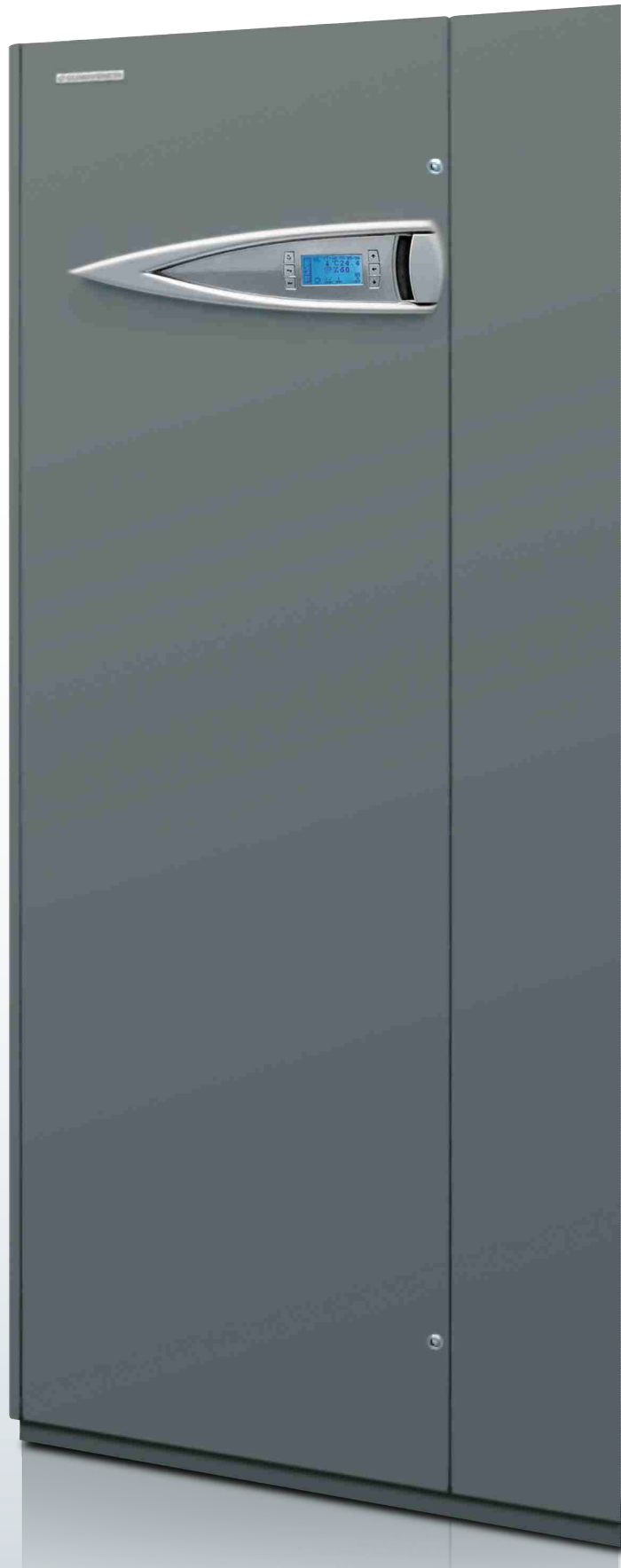
DX-M-INV2 SERIES



Modular HPAC with Inverter compressors

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Chilled water system by magnetic levitation oil-free centrifugal chiller	10



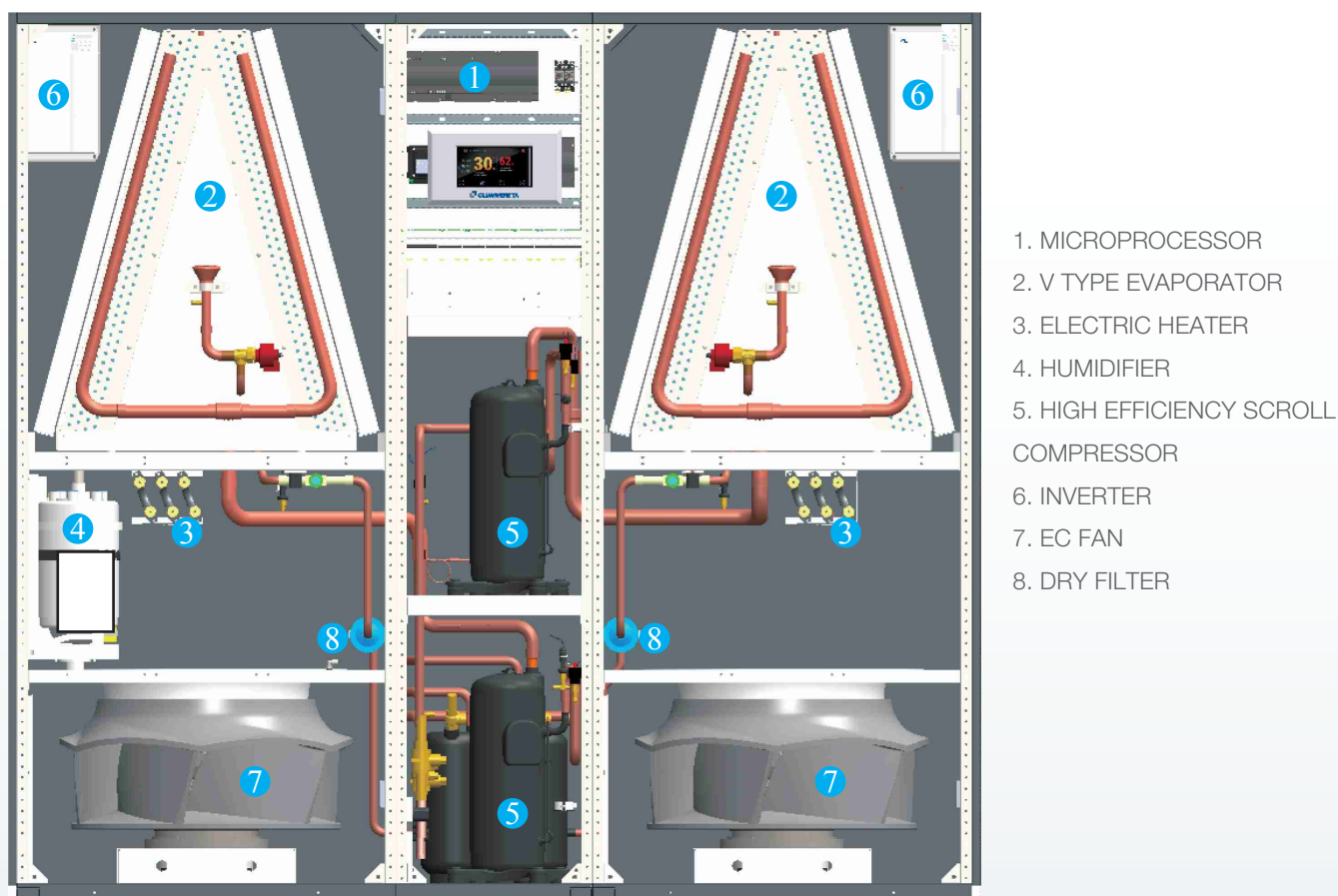
Product Description

The units, Modular COOLBLADE with inverter compressors series, are dedicated designed for the computer and data processing room for Telecom operator, Internet provider, museum and laboratory.

Their design follows the national standard GB/T19413-2010 (Unitary air-conditioners for computer and data processing room) strictly.

The modular design of the unit makes it combinable, its structure flexible and its installation easier to handle based on client request.

Unit Structure



Unit Configuration

- Galvanized metal sheet structure and powder coating on external surface
- Sound insulation is applied to the panel to reduce noise
- Standard high efficiency scroll compressor
- Standard high efficiency EC fan
- Standard filter G4
- Optional sunken EC fan design
- Complete modular design for increased air flow demand



Intelligent Control

COOLBLADE has an intelligent microprocessor, allows it to keep a intelligent running over all the operating and environmental parameters of the site by PID control.

The customer can set the parameters at site according to the specify environment request.



Electronics

STANDARD FUNCTIONS

- Semi-graphic display 132 x 64 pixel
- Programmable software
- ICONS Graphic Display
- General alarm
- Automatic reset after blackout
- Compressor FIFO management
- Integral LAN system
- Standby management
- Automatic rotation
- Fault alarms
- Clock card
- Emergency function
- Two level password
- Delay restart

MAIN OPTIONS

- Serial cards for BMS interconnection
- Fire-smoke alarm
- Water leakage alarm
- 7 inch touch screen

Options and Main Accessories



STANDARD

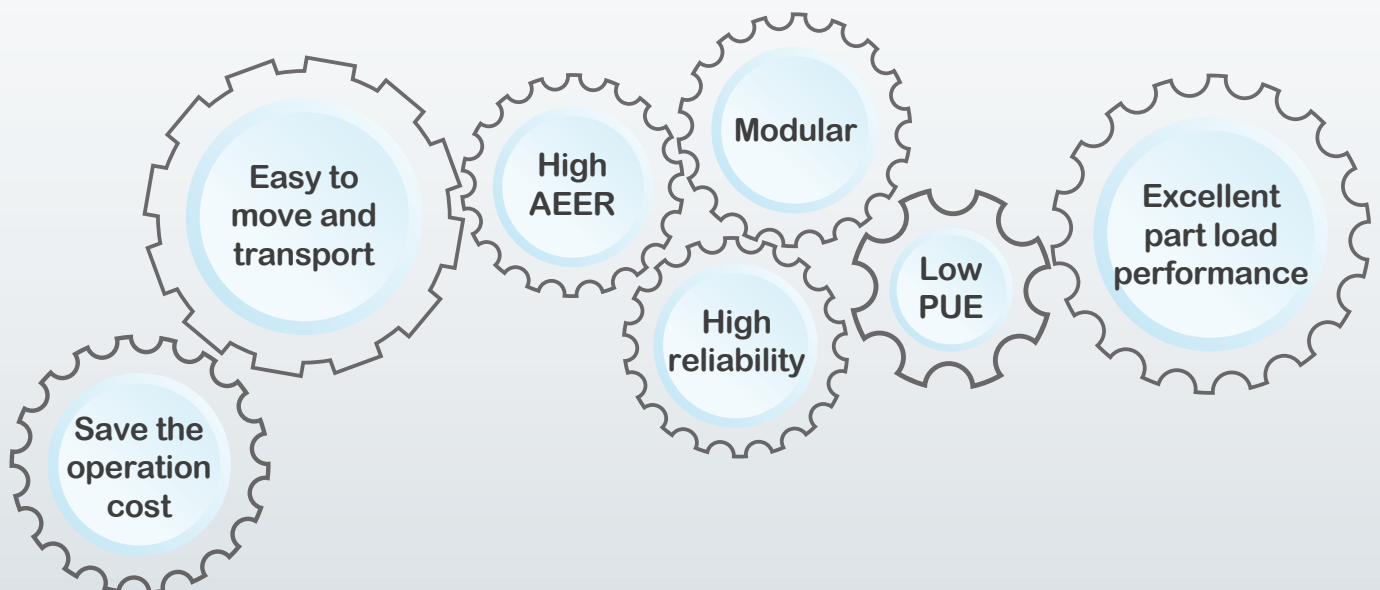
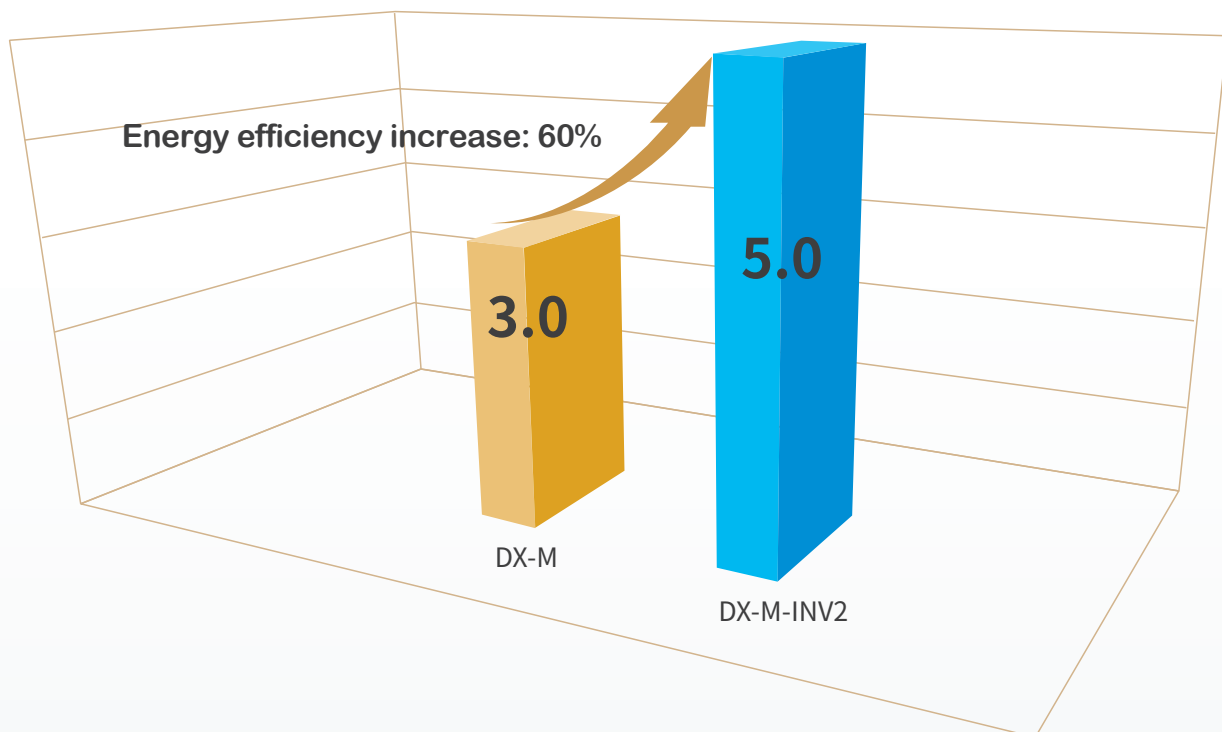
- Inverter EC fan
- Inverter scroll compressor
- High and low pressure switch
- G4 standard filter configuration
- R-410A refrigerant
- Electrode humidifier
- Electric heater with stainless steel fin
- Stepless speed regulation of outdoor fan
- Electronic expansion valve

OPTION

- Plenum with frontal grills

Unit Feature

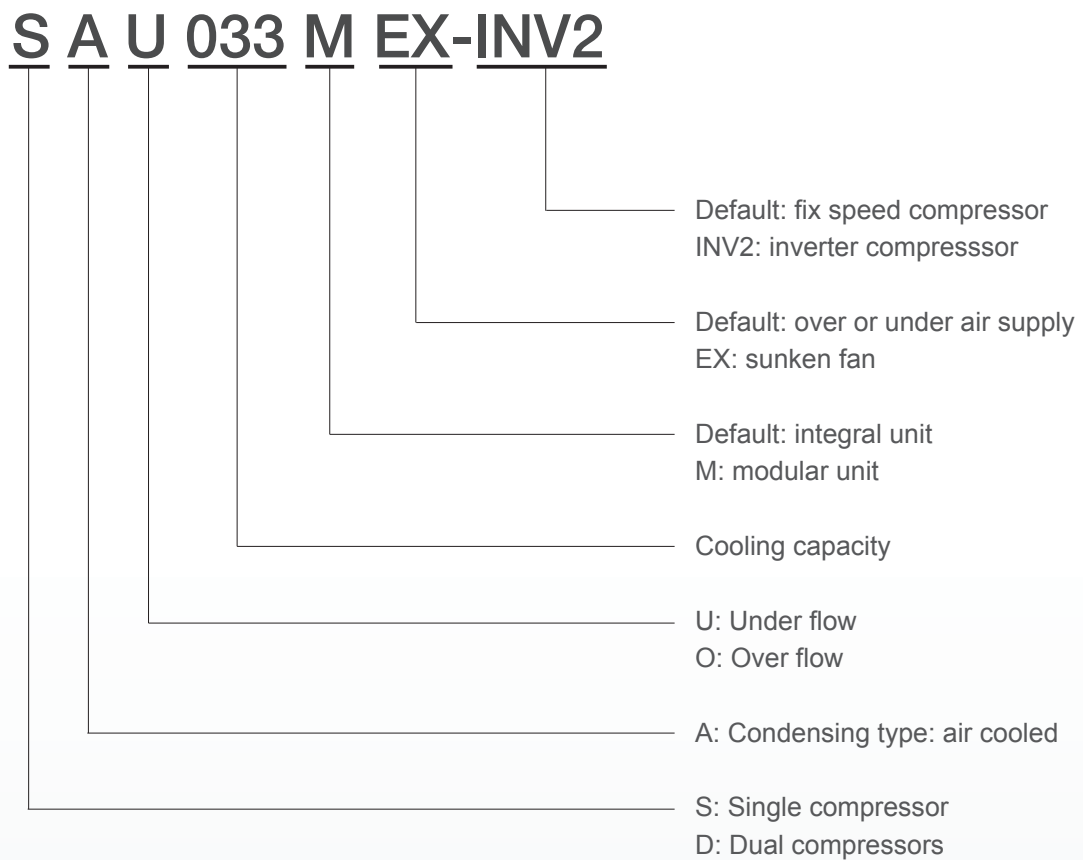
This air-cooled modular units are completed with inverter compressors and its inverters from world famous supplier which enables the precise control according to the load in the data center, and the energy efficiency can maintain at high level even under the part load. The units adopt modular structure which is easily to move and transport. And the electronic expansion valve is standard configuration which makes unit running under 20%~100% load by stepless control.



Modular HPAC with Inverter compressors

Several air supply and return types can be selected for Modular Air-cooled unit, including: top supply and front return, top supply and back return, bottom supply and top return and etc.

Nomenclature



Modular Air-cooled Unit with Inverter Compressor

Model		SAU/O-M-INV2					DAU/O-M-INV2					
		033	040	045	050	060	065	080	090	100	110	120
Power supply	V/Ph/Hz	380/3N/50										
Refrigerant		R410A										
Cooling performances												
Total cooling capacity	kW	26.8	32.3	36.9	41.6	45.0	55.5	64.5	73.8	83.2	90.3	97.9
Sensible cooling capacity	kW	25.8	31.8	35.3	38.4	44.7	50.7	62.3	70.5	76.8	88.5	95.4
SHR(1)		0.96	0..98	0.96	0.92	0.99	0.91	0.97	0.95	0.92	0.95	0.97
Compressor												
Quantity		1	1	1	1	1	2	2	2	2	2	2
Power input(1)	kW	6.32	7.66	8.63	10.40	10.10	14.40	15.30	17.20	20.70	20.20	23.80
EC Fan												
Air flow	m³/h	7800	10000	10000	10500	13600	14000	20000	20000	21000	27100	28000
Quantity		1	1	1	1	1	1	2	2	2	2	2
Power input	kW	1.60	2.54	2.32	2.40	3.16	3.40	5.03	4.63	4.80	5.75	6.80
ESP	Pa	20-350Pa										
Sound pressure level	dB(A)	52	53	55	55	61	62	57	57	57	63	64
Humidifier												
Humidification capacity	kg/h	5.00	5.00	5.00	5.00	5.00	5.00	8.00	8.00	8.00	8.00	8.00
Power input	kW	3.75	3.75	3.75	3.75	3.75	3.75	6.00	6.00	6.00	6.00	6.00
Electric Heater												
Steps		3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Power input	kW	9.00	9.00	9.00	9.00	9.00	9.00	18.00	18.00	18.00	18.00	18.00
Outdoor unit												
Outdoor unit model		C42	C49	C58	C58	C74	C42*2	C49*2	C58*2	C58*2	C74*2	C74*2
Outdoor unit Power input	kW	1.18	1.18	1.18	1.18	1.77	2.36	2.36	2.36	2.36	3.54	3.54
Outdoor & indoor unit												
Total power input	kW	9.1	11.4	12.1	14.0	15.0	20.2	22.7	24.2	27.9	29.5	34.1
Energy efficiency rating		1	1	1	1	1	2	1	1	1	1	1
AEER		4.07	4.10	4.20	4.27	4.07	3.90	4.11	4.21	4.26	4.20	4.01

(1)- Working conditions: return air 24°C, relative humidity 50%

(2)- Measured at 2 meters in front of the unit, 1.5 meters high

(3)- The electric heating capacity and humidification capacity in the table are standard configuration. If the customer needs to increase the heating or humidification capacity of the unit, please consult the Climaveneta factory

(4)- The unit design comply with GB/T19413-2010



Weight/Dimension

Model		SAU/O-M-INV2					DAU/O-M-INV2					
		033	040	045	050	060	065	080	090	100	110	120
Length	mm	890	890	890	890	1330	1330	1740	1740	1740	2180	2180
Depth	mm	990	990	990	990	990	990	990	990	990	990	990
Height	mm	1990	1990	1990	1990	1990	1990	1990	1990	1990	1990	1990
Weight	kg	315	320	325	330	400	435	640	650	660	690	690

Modular HPAC with Inverter compressors

Modular Air-cooled Unit with Inverter Compressor

Model		SAU/O-M-INV2					DAU/O-M-INV2					
		033	040	045	050	060	065	080	090	100	110	120
Power supply	V/Ph/Hz	380/3N/50										
Refrigerant		R410A										
Cooling performances												
Total cooling capacity	kW	33.5	40.3	45.7	50.6	61.0	65.8	80.4	91.3	101.0	113.0	122.0
Sensible cooling capacity	kW	33.5	40.3	45.7	50.6	61.0	65.8	80.4	91.3	101.0	113.0	122.0
SHR(1)		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Compressor												
Quantity		1	1	1	1	1	2	2	2	2	2	2
Power input(1)	kW	6.79	7.99	8.99	10.90	12.50	13.50	16.00	18.00	21.90	21.00	24.70
EC Fan												
Air flow	m³/h	7800	10000	10000	10500	13600	14000	20000	20000	21000	27100	28000
Quantity		1	1	1	1	1	1	2	2	2	2	2
Power input	kW	1.60	2.54	2.32	2.40	3.16	3.40	5.03	4.63	4.80	5.75	6.80
ESP	Pa	20-350Pa										
Sound pressure level	dB(A)	52	55	55	55	61	62	57	57	57	63	64
Humidifier												
Humidification capacity	kg/h	5.00	5.00	5.00	5.00	5.00	5.00	8.00	8.00	8.00	8.00	8.00
Power input	kW	3.75	3.75	3.75	3.75	3.75	3.75	6.00	6.00	6.00	6.00	6.00
Electric Heater												
Steps		3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Power input	kW	9.00	9.00	9.00	9.00	9.00	9.00	18.00	18.00	18.00	18.00	18.00
Outdoor unit												
Outdoor unit model		C42	C49	C58	C58	C74	C42*2	C49*2	C58*2	C58*2	C74*2	C74*2
Outdoor unit Power input	kW	1.18	1.18	1.18	1.18	1.77	2.36	2.36	2.36	2.36	3.54	3.54
Outdoor & indoor unit												
Total power input	kW	9.6	11.7	12.5	14.5	17.4	19.3	23.4	25.0	29.1	30.3	35.0

(1)- Working conditions: return air 35°C, relative humidity 26%

(2)- Measured at 2 meters in front of the unit, 1.5 meters high

(3)- The electric heating capacity and humidification capacity in the table are standard configuration. If the customer needs to increase the heating or humidification capacity of the unit, please consult the Climaveneta factory

(4)- The unit design comply with GB/T19413-2010

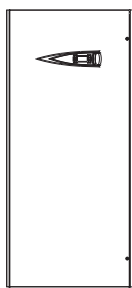


Weight/Dimension

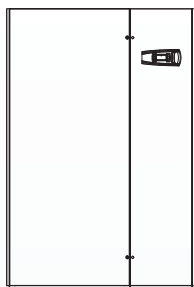
Model		SAU/O-M-INV2					DAU/O-M-INV2					
		033	040	045	050	060	065	080	090	100	110	120
Length	mm	890	890	890	890	1330	1330	1740	1740	1740	2180	2180
Depth	mm	990	990	990	990	990	990	990	990	990	990	990
Height	mm	1990	1990	1990	1990	1990	1990	1990	1990	1990	1990	1990
Weight	kg	315	320	325	330	400	435	640	650	660	690	690

Module Combination

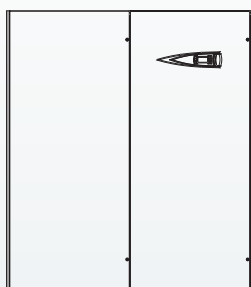
CLIMAVENETA modular designed unit can be modular combined at site which effectively cope with the limited condition in insatallation and transportation.



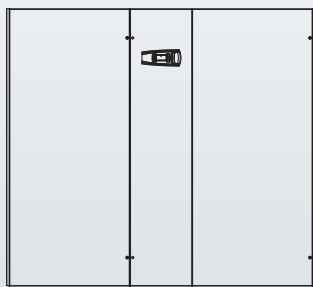
Model	SAU/O-M-INV2			
	033	040	045	050
Module Qty.	single module			
Dimension	890*990*1990			



Model	SAU/O-M-INV2	DAU/O-M-INV2
	060	065
Module Qty.	single module+Control cabinet	
Dimension	1330*990*1990	



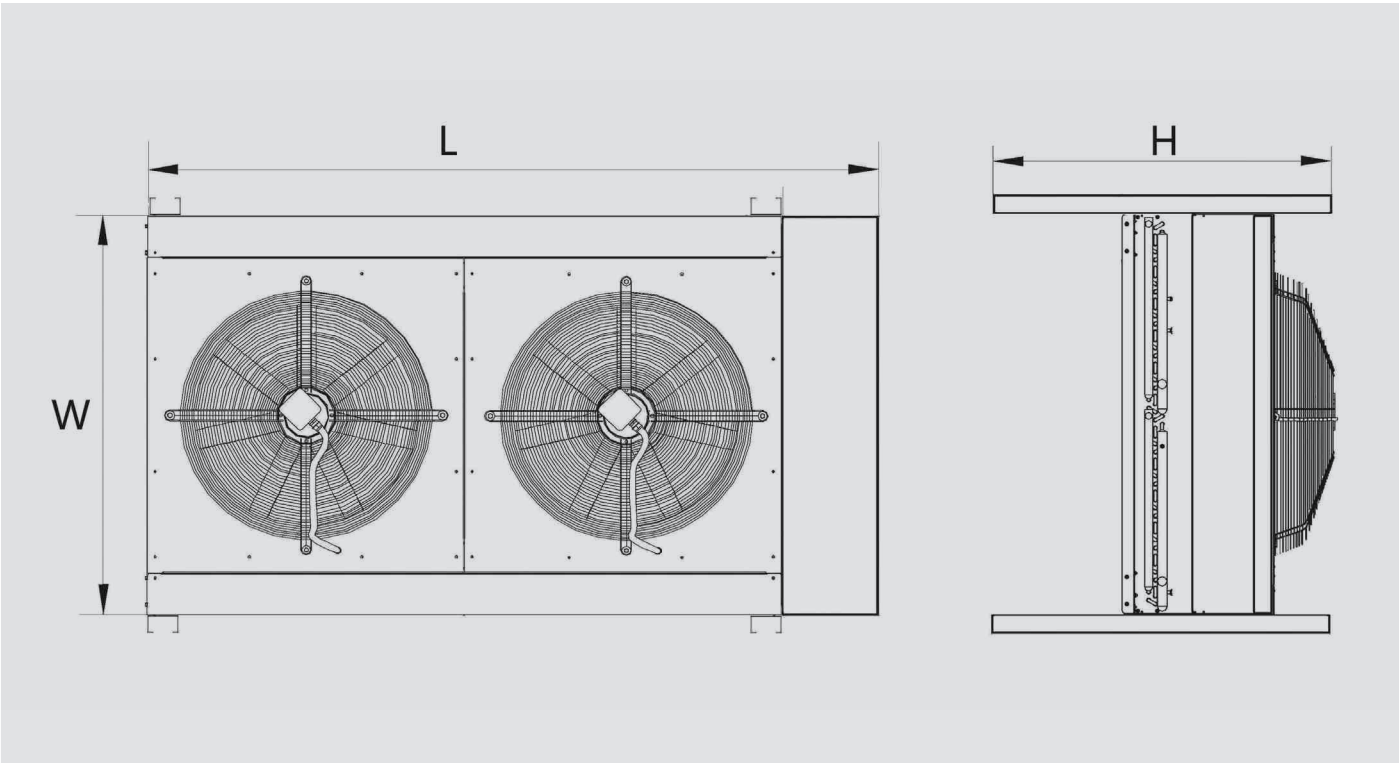
Model	DAU/O-M-INV2		
	080	090	100
Module Qty.	single module*2		
Dimension	1740*990*1990		



Model	DAU/O-M-INV2	
	110	120
Module Qty.	single module*2+Control cabinet	
Dimension	2180*990*1990	

Modular HPAC with Inverter compressors

Outdoor unit for DXA



Standard packing: Plastic film package. Seaworthy package should be selected if shipped by sea.
Standard fan regulation: Steplless speed control.

Outdoor unit for DXA

Model		C17	C24	C29	C33	C42	C49	C58	C74
Fan Qty.		1	1	1	2	2	2	2	3
Power Supply		220V-1Ph-50Hz							
FLA	A	1.3	3.0	3.0	2.5	6.0	6.0	6.0	9.0
L	mm	1115	1330	1330	2005	2005	2427	2427	3488
W	mm	905	1108	1108	905	1108	1108	1108	1108
H	mm	830	830	830	830	830	830	830	830
Weight	kg	50	58	70	80	96	102	112	180

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COOLBLADE

All specification and data are subject to change without notice

The products are in accordance with GB/T19413

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