

# ACCURATE 2.0

Chilled Water

High precision air conditioners,  
from 6 to 235 kW

2 versions available:

- ✓ Single circuit
- ✓ Dual circuit



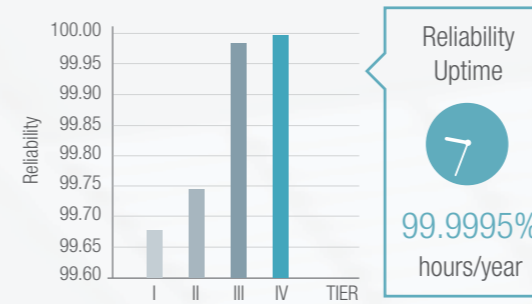
ACCURATE 2.0 Chilled water

# Unparalleled Efficiency

The new range of high precision air conditioners specially designed to satisfy specific IT infrastructure efficiency needs, flexibility and reliability.

The overall growth of data exchange inside modern data centers necessarily results in a higher localized power load density, also known as 'hot spots'.

The greatest challenge for the new ACCURATE 2.0 range is to achieve perfect heat removal, ensuring the highest energy efficiency and reliable operations throughout the data center.



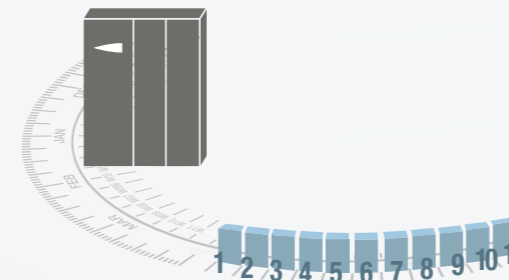
## Our mission: the perfect match between efficiency and reliability

Nowadays efficiency is no longer considered to be just saving energy in respect to the single unit, but it takes into account the system's PERFORMANCE, COMPLETE RELIABILITY and MODULARITY over the years.

By offering ACCURATE 2.0 as a solution to technological cooling problems, Climaveneta puts great effort in the use of well-known high quality components such as the EC PUL fans installed as standard in all units, together with a perfect integration of the units with the BMS (building management systems).

## Perfect energy management

It is well known that set loads (W/m<sup>2</sup>) in technological applications are continuously increasing. The increase in data exchange is in fact generating greater heat loads that are usually localized in 'hot spots'. This requires better performance from the air conditioning system that should, however, take up as little space as possible. In this sense, ACCURATE 2.0 as the air conditioner with the best supplied power/footprint ratio in the market. Because space is value.



## Customer-oriented approach

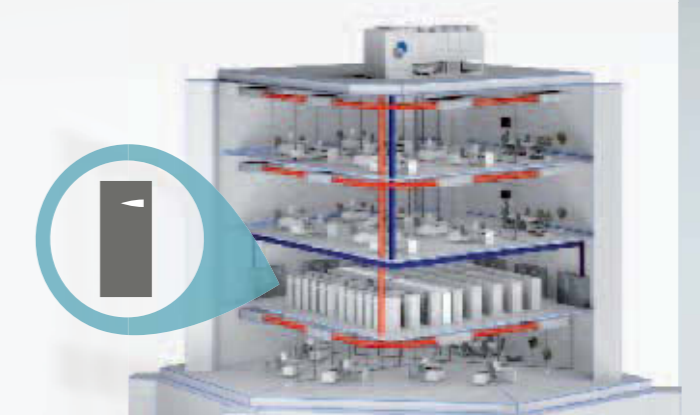
Climaveneta delivers a complete range of products and solutions for high precision air conditioning. 360° versatility, both as concerns capacities (from 6 to 235 kW), as well as configurations thanks to 5 different cooling solutions. When even this is not enough, Climaveneta's 40-years of experience in air conditioning is the key element to ensure tailor-made solutions dedicated to specific application requirements.



## The innovative heat recovery system

The heat generated by powerful computer servers is a precious energy source; why do we waste it? This thermal energy can be recovered and reused if necessary, turning it into a precious economic asset.

Through innovative heat recovery, the SMART THERMAL ENERGY MANAGEMENT SYSTEM, Climaveneta synergistically matches both the cooling sources of the data center with the heating requirements inside the building, by moving the heat from the data center to other office areas. A forward-looking system that combines perfect comfort with zero energy waste, improving the energy class rating of the building and providing large annual energy savings.





# Technological choices



## EC PUL Inverter fans



Aimed at optimising energy costs, this modern technology with electronically commutated EC motor, increases the overall energy efficiency of the unit through an accurate management of all parameters such as flow rate, power and pressure in order to ensure the best system operation in any working conditions.

### Main features:

- ✓ Noise level reduction by 4-5 dB(A) compared to traditional fans
- ✓ Power absorption reduction by 25% compared to traditional fans
- ✓ 2 versions available, BASIC and high pressure HP (optional)

ACCURATE 2.0 features a new intelligent electronic heart to keep constant control over all the operating and environmental parameters of the site.

Designed and developed by Climaveneta, the new control is highly configurable according to specific user requirements, ensuring:

- ✓ Automatic restart from blackout
- ✓ Integrated management system up to 10 units (LAN)
- ✓ ACTIVE REDUNDANCY management
- ✓ Full BMS compatibility (Ethernet, Bacnet, SNMP, Modbus, TCP/IP, LON)
- ✓ BLACK BOX for predictive analysis
- ✓ DEW POINT control
- ✓ ADAPTIVE SET POINT management
- ✓ ACTIVE FREE COOLING management

## EVOLUTION+ CONTROLLER



## Adaptive set point



Thanks to an advanced algorithm called ADS (Adaptive Set Point), all the indoor ACCURATE 2.0 units instantaneously detect the real thermal load within the data center. This information is therefore conveyed to the outdoor chillers, improving their operation.

The energy consumption decreases considerably by a precise management of 4 variables:

- ✓ Dynamic chiller set point variation
- ✓ Dynamic chiller water flow variation (only with inverter pumps)
- ✓ Adoption of the free cooling mode (when possible)
- ✓ Adoption of the ACTIVE REDUNDANCY system to better exploit stand-by chillers



## ACCURATE 2.0 EXPANDED

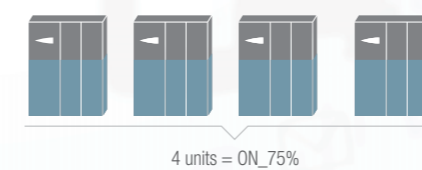
Conceived to reduce the energy consumption to the minimum levels

The new ACCURATE 2.0 EXPANDED air conditioners have been specifically developed to answer the high efficiency requirements of server rooms. They feature 2 independent modules; the first one containing a coil usually located over the floor, and the second module located under the floor that contains the fan section. This efficient and versatile solution matches even the most diverse design requirements of medium-large data centers.

### Passive redundancy



### Active redundancy



## ACTIVE REDUNDANCY: the perfect match between reliability, efficiency, and lowest TCO



The reliability inside a data center, usually ensured by the adoption of back-up units (N+1, N+2, etc.), now shows a new definition.

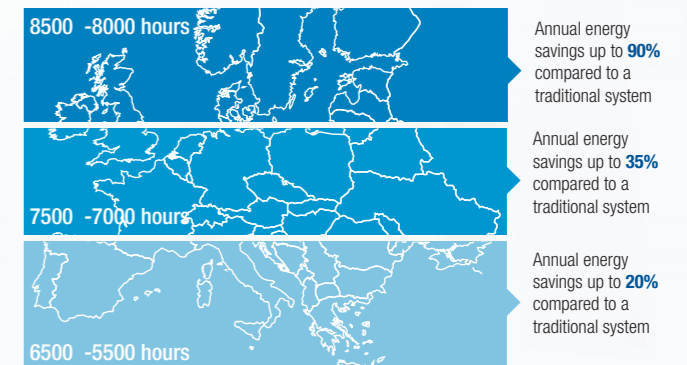
The ACCURATE 2.0 units, thanks to its innovative EC PUL fans and an advanced algorithm to balance the heat loads among the units (including those units that usually remain on stand-by), achieve a real ACTIVE REDUNDANCY, thus combining concepts that have always been colliding such as reliability, efficiency and Total Cost of Ownership.

## ACTIVE FREE COOLING

Perfectly in line with an eco-friendly strategy to deliver premium efficiency levels, Climaveneta adopts an advanced free cooling system to exploit the cooling potential of outdoor air to cool the data center.

This technology is available as:

- ✓ **DIRECT Free Cooling** (savings up to 90%)  
Through the use of a plenum with modulating dampers, the outdoor air is recovered and reused inside the data center after temperature and humidity control.
- ✓ **INDIRECT Free Cooling** (savings up to 60%)  
Using the water as exchange fluid, which is moved by an outdoor Climaveneta chiller.



Average operating hours of one unit in direct free cooling mode inside a data center requiring 1MW cooling capacity, working 24/7.

# Cooling modes

All-round flexibility as a service offered for any type of system.

The ACCURATE 2.0 range comes with capacities from 6 to 235 kW in the ACO/ACU chilled water version and from 31 to 153 kW in the ABO/ABU dual coil version.

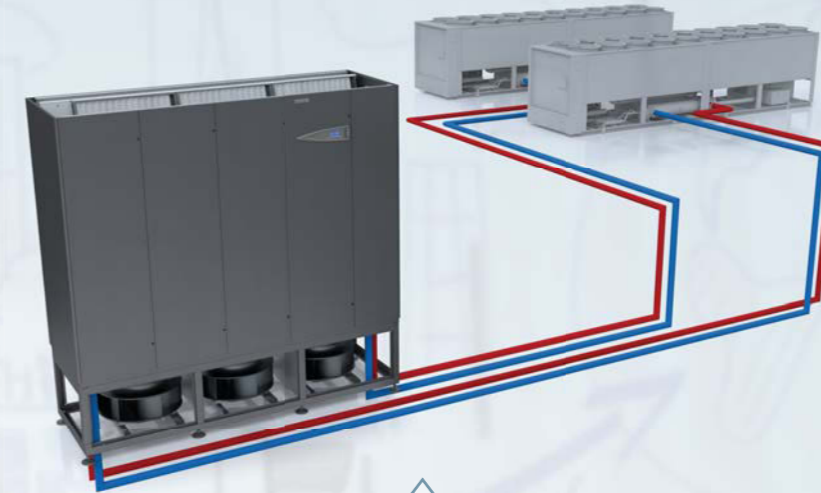


**ACO / ACU - ACO / ACU EXPANDED**  
Chilled water unit

**Versions:**

- ACO / ACO EXPANDED: Chilled water, upflow version
- ACU / ACU EXPANDED: Chilled water, downflow version

These units use the water coming from a chiller as a means to transfer heat. The flow of liquid in the unit's water coil is managed by an internal 2 or 3-way valve.



**ABO / ABU Dual Coil - ABO / ABU EXPANDED Dual Coil**  
Chilled water unit with double circuit

**Versions:**

- ABO / ABO EXPANDED: Chilled water, upflow version
- ABU / ABU EXPANDED: Chilled water, downflow version

These units are provided as standard with two water circuits that never work simultaneously, as they are one in 100% back up to the other. Such circuits are connected to two different chiller lines completely independent of one another. The Dual Coil version is the perfect solution for those systems where RELIABILITY, SAFETY and REDUNDANCY are at utmost importance.

## Management and control systems

In a policy of 'total communication', ACCURATE 2.0 presents several interconnection solutions with the latest BMS systems.



**Data Center Manager**

**Group device**

DATA CENTER MANAGER is a centralized management system that ensures smart communication between the indoor chilled water units and the outdoor chillers, achieving an overall increase in global efficiency up to 70%.



**Clima Guard**

**Monitoring and supervision device**

CLIMA GUARD is the electronic device to constantly monitor and supervise a network of air conditioners, ensuring a total system reliability 24/7.



**Clima Center**

**Supervision device**

CLIMA CENTER is the global solution for monitoring the perimeter ACCURATE 2.0 air conditioners.

Thanks to its web-based interface, the plant can be remotely managed in an easy and intuitive way.



**ClimaPRO**

**Chiller plant control and optimisation system**

ClimaPRO ensures the perfect plant room operation through the management of each single component involved in the production and distribution of thermal and cooling energy.

Thanks to its 5 modules, ClimaPRO measures the efficiency of the units and the whole system, compares design data with real values and analyses the trend over time turning this data into clear and easy-to-understand information.



# Airflow configurations

## AC/AB OVER

Ideal application  
Data center dimensions: small-medium

0.1



**Airflow:** OVER, air discharged from the top, frontal air intake

Raised floor: absent  
Room Height < 3m

0.2



**Airflow:** OVER, air discharged from the top, air intake under the floor

Raised floor > 400 mm  
Room Height < 3m

0.3



**Airflow:** OVER, air discharged from the top, air intake from the rear/bottom of the unit

Raised floor: absent  
Room Height < 3m

## AC/AB UNDER

Ideal application  
Data center dimensions: small-medium

U.1



**Airflow:** UNDER, air discharged from the bottom under the floor with air intake from the top

Raised floor > 400 mm  
Room Height < 3m

## AC/AB EXPANDED OVER

Ideal application  
Data center dimensions: medium-large, very large

EXPANDED - 0.1



**Airflow:** OVER, air discharged from the top, air intake under the floor

Raised floor > 400 mm  
Room Height > 3m

EXPANDED - 0.2



**Airflow:** OVER, air discharged from the top and frontal air intake

Raised floor: absent  
Room Height > 3m

EXPANDED - 0.3



**Airflow:** FRONTAL OVER, air discharged from the frontal-top with frontal air intake

Raised floor: absent  
Room Height ≥ 3m

EXPANDED - 0.4



**Airflow:** FRONTAL REAR, air discharged from the top-rear side and air intake from the rear/bottom

Raised floor > 400 mm  
Room Height ≥ 3m

## AC/AB EXPANDED UNDER

Ideal application  
Data center dimensions: medium-large, very large

EXPANDED - U.1



**Airflow:** UNDER, air discharged from the bottom (fan section under the floor) with air intake from the top

Raised floor > 600 mm  
Room Height < 3m

EXPANDED - U.2



**Airflow:** UNDER, air discharged from the bottom (fan section above the floor) with air intake from the top

Raised floor ≤ 600mm  
Room Height > 3m

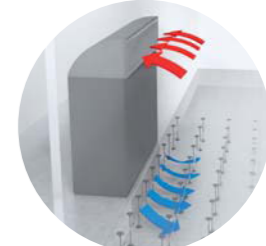
EXPANDED - U.3



**Airflow:** UNDER, air discharged from the frontal bottom side (fan section above the floor) with air intake from the top

Raised floor: absent  
Room Height > 3m

EXPANDED - U.4



**Airflow:** UNDER, air discharged from the bottom-rear side (fan section under the floor) and air intake from the top-rear

Raised floor > 600mm  
Room Height < 3m

## AC / AB EXPANDED

Chilled water close control air conditioners. 36 - 235 kW



### Lowest consumption for highly efficient data centers

The new ACCURATE 2.0 EXPANDED air conditioners have been designed to completely match the most demanding efficiency requirements of medium and high density data centers with raised floors and very high exchange fluid temperatures. The unit strongly reduces the energy consumption of external chillers increasing system operating hours in free cooling mode. Its layout consists of two modules: one containing the heat exchanger coil, usually located on the floor, the other one usually installed under the floor, containing the fan section.

#### Oversized heat exchanger

New heat exchanger coil and oversized filters to reduce pressure drops both on the air side and the water side, thus increasing overall unit efficiency.

#### EVOLUTION+ CONTROLLER

Innovative and more powerful ambient parameter control system for easy interconnection between units and communication with the BMS.

#### 2 versions available

**AC EXPANDED**  
Ductable close control air-conditioners with capacities ranging from 50 to 235 kW, for vertical installation and cooling only.

**AB EXPANDED**  
Ductable dual coil close control air-conditioners with capacities ranging from 36 to 153 kW, for vertical installation and cooling only. The units have to be connected to two independent circuits each one a back-up for the other.

#### EC PUL fans

New aerodynamic design on the air side to reduce the energy consumption by 60% compared to traditional systems.

#### External fan section

External ventilation section for applications with adjustable feet. Simplified electrical connection kit between the unit and the fan module.

#### Regulation valves

Several solutions available from 2 or 3-way valves. Auto-balancing with customized connections upon request.

### AC EXPANDED Chilled Water

Model		0501	0651	0701	0801	1201	1501	1651	1951	2001	2351
Frames		FRAME 3		FRAME 4		FRAME 5		FRAME 7		FRAME 8	
Airflow	m³/h	12000	12000	13000	13000	25000	25000	36000	36000	40000	40000
<b>PERFORMANCE</b>											
Total cooling capacity	(1) kW	49,5	65,0	68,9	81,6	117,4	147,0	166,4	197,9	199,3	234,5
Sensible cooling capacity	(1) kW	43,5	51,7	55,3	60,8	100,2	112,6	143,2	156,2	165,0	179,8
SHR	(1)	0,88	0,80	0,80	0,75	0,85	0,77	0,86	0,79	0,83	0,77
Total pressure drop	(1) kPa	73	82	59	57	44	82	93	100	100	87
Power supply	V/Ph/Hz	400/3N/50		400/3N/50		400/3N/50		400/3N/50		400/3N/50	
BASIC EC radial fans power abs.	kW	1,89	2,03	1,75	1,80	3,61	3,85	5,41	5,67	6,58	6,97
HP EC radial fans power abs.	kW	2,05	2,19	1,57	1,63	3,31	3,56	5,88	6,14	5,91	6,33
Power supply	V/Ph/Hz	460/3/60		460/3/60		460/3/60		460/3/60		460/3/60	
BASIC EC radial fans power abs.	kW	1,89	2,03	1,75	1,80	3,61	3,85	5,41	5,67	6,58	6,97
HP EC radial fans power abs.	kW	2,05	2,19	1,57	1,63	3,31	3,56	5,88	6,14	5,91	6,33
Power supply	V/Ph/Hz	380/3/60		380/3/60		380/3/60		380/3/60		380/3/60	
BASIC EC radial fans power abs.	kW	1,89	2,03	1,75	1,80	3,61	3,85	5,41	5,67	6,58	6,97
HP EC radial fans power abs.	kW	2,05	2,19	1,57	1,63	3,31	3,56	5,88	6,14	5,91	6,33
Power supply	V/Ph/Hz	230/3/60		230/3/60		230/3/60		230/3/60		230/3/60	
BASIC EC radial fans power abs.	kW	1,97	2,13	1,66	1,73	3,62	3,90	5,66	6,00	5,67	6,12
<b>VENTILATION</b>											
No. fans	No.	1	1	1	1	2	2	3	3	3	3
Sound pressure	(2) dB(A)	62	62	65	65	66	66	67	67	70	70
<b>HUMIDIFIER</b>											
Capacity	kg/h	5	5	5	5	8	8	10	10	15	15
<b>BASIC ELECTRICAL HEATERS</b>											
Steps		3	3	3	3	3	3	3	3	3	3
Heating capacity	kW	9	9	15	15	18	18	18	18	24	24
<b>DIMENSIONS</b>											
Length	mm	1000		1550		2100		2650		3200	
Depth	mm	990		990		990		990		990	
Height	mm	1980 + 600		1980 + 600		1980 + 600		1980 + 600		1980 + 600	

### AB EXPANDED Dual Coil Chilled Water

Model		0352	0452	0502	0602	0852	1002	1202	1402	1552
Frames		FRAME 3		FRAME 4		FRAME 5		FRAME 7		FRAME 8
Airflow	m³/h	12000	12000	13000	13000	25000	25000	36000	36000	40000
<b>PERFORMANCE</b>										
Total cooling capacity	(1) kW	36,6	45,0	49,8	57,3	86,5	101,9	117,0	139,7	153,2
Sensible cooling capacity	(1) kW	32,3	37,7	41,3	45,6	73,8	83,2	101,4	115,7	127,9
SHR	(1)	0,88	0,84	0,83	0,80	0,85	0,82	0,87	0,83	0,83
Total pressure drop	(1) kPa	81	112	78	67	89	85	135	112	56
Power supply	V/Ph/Hz	400/3N/50		400/3N/50		400/3N/50		400/3N/50		400/3N/50
BASIC EC radial fans power abs.	kW	1,89	2,03	1,75	1,80	3,61	3,85	5,41	5,67	6,97
HP EC radial fans power abs.	kW	2,05	2,19	1,57	1,63	3,31	3,56	5,88	6,14	6,33
Power supply	V/Ph/Hz	460/3/60		460/3/60		460/3/60		460/3/60		460/3/60
BASIC EC radial fans power abs.	kW	1,89	2,03	1,75	1,80	3,61	3,85	5,41	5,67	6,97
HP EC radial fans power abs.	kW	2,05	2,19	1,57	1,63	3,31	3,56	5,88	6,14	6,33
Power supply	V/Ph/Hz	380/3/60		380/3/60		380/3/60		380/3/60		380/3/60
BASIC EC radial fans power abs.	kW	1,89	2,03	1,75	1,80	3,61	3,85	5,41	5,67	6,97
HP EC radial fans power abs.	kW	2,05	2,19	1,57	1,63	3,31	3,56	5,88	6,14	6,33
Power supply	V/Ph/Hz	230/3/60		230/3/60		230/3/60		230/3/60		230/3/60
BASIC EC radial fans power abs.	kW	1,97	2,13	1,66	1,73	3,62	3,90	5,66	6,00	6,12
<b>VENTILATION</b>										
No. fans	No.	1	1	1	1	2	2	3	3	3
Sound pressure	(2) dB(A)	62	62	65	65	66	66	67	67	70
<b>HUMIDIFIER</b>										
Capacity	kg/h	5	5	5	5	8	8	10	10	15
<b>BASIC ELECTRICAL HEATERS</b>										
Steps		3	3	3	3	3	3	3	3	3
Heating capacity	kW	9	9	15	15	18	18	18	18	24
<b>DIMENSIONS</b>										
Length	mm	1000		1550		2100		2650		3200
Depth	mm	990		990		990		990		990
Height	mm	1980 + 600		1980 + 600		1980 + 600		1980 + 600		1980 + 600

(1) Water 7-12°C, air 24°C/50% - ESP 20Pa

(2) Measured at 1.5 m height and 2 m front free field



## AC

Close control air conditioner 6 - 225 kW



Ductable close control air-conditioners with capacities ranging from 6 to 225 kW for vertical installation and cooling only, with optional heating by means of heating element or hot water, optional humidifier and dehumidifier for precise temperature and humidity control.

Particularly suitable for air-conditioning server and CED rooms and all technological applications in general. The unit has to be connected to an external chiller. Power supply std 400V/3N/50Hz (230V/1/50 for AC05-07-09), 60Hz versions also available (230V/3/60Hz, 380V/3/60Hz, 460V/3/60Hz).

### AC Chilled Water

Model		0061	0101	0131	0161	0201	0261	0331	0401	0501	0601	0701	0901	1151	1201	1401	1551	1801	2001	2251	
Frames		FRAME 1			FRAME 2			FRAME 3			FRAME 4			FRAME 5			FRAME 7			FRAME 8	
Airflow	m³/h	1800	2500	2500	5000			10000			12500			21000			25000	25000	30000	30000	36000
<b>PERFORMANCE</b>																					
Total cooling capacity	(1) kW	6,0	10,7	13,3	15,7	20,6	26,6	32,8	40,3	50,2	60,1	69,9	89,1	112,4	118,6	138,7	155,0	178,0	197,0	225,0	
Sensible cooling capacity	(1) kW	5,1	8,6	10,2	13,5	16,6	20,4	29,6	34,8	41,4	48,3	54,8	74,3	89,8	95,5	109,0	127,0	136,0	156,0	168,0	
SHR	(1)	0,84	0,80	0,77	0,86	0,81	0,77	0,90	0,86	0,82	0,80	0,78	0,83	0,80	0,81	0,79	0,82	0,76	0,79	0,75	
Total pressure drop	(1) kPa	47	75	65	67	70	98	47	57	96	81	64	62	117	78	70	94	114	159	149	
Power supply	V/Ph/Hz	230/1/50			230/1/50			230/1/50			230/1/50			230/1/50			230/1/50			230/1/50	
BASIC EC radial fans power abs.	kW	0,13	0,31	0,31	0,61	0,63	0,65	-	-	-	-	-	-	-	-	-	-	-	-	-	
HP EC radial fans power abs.	kW	0,1	0,26	0,27	0,53	0,55	0,58	-	-	-	-	-	-	-	-	-	-	-	-	-	
Power supply	V/Ph/Hz	400/3N/50			400/3N/50			400/3N/50			400/3N/50			400/3N/50			400/3N/50			400/3N/50	
BASIC EC radial fans power abs.	kW	0,13	0,31	0,31	0,61	0,63	0,65	1,53	1,63	1,73	1,89	1,96	3,51	3,69	3,82	3,97	5,01	5,54	6,97	7,51	
HP EC radial fans power abs.	kW	0,1	0,26	0,27	0,53	0,55	0,58	1,70	1,82	1,92	2,04	2,11	3,89	4,08	4,11	4,25	5,57	6,14	7,48	8,06	
Power supply	V/Ph/Hz	460/3/60			460/3/60			460/3/60			460/3/60			460/3/60			460/3/60			460/3/60	
BASIC EC radial fans power abs.	kW	0,13	0,31	0,31	0,61	0,63	0,65	1,53	1,63	1,73	1,89	1,96	3,51	3,69	3,82	3,97	5,01	5,54	6,97	7,51	
HP EC radial fans power abs.	kW	0,1	0,26	0,27	0,53	0,55	0,58	1,70	1,82	1,92	2,04	2,11	3,89	4,08	4,11	4,25	5,57	6,14	7,48	8,06	
Power supply	V/Ph/Hz	380/3/60			380/3/60			380/3/60			380/3/60			380/3/60			380/3/60			380/3/60	
BASIC EC radial fans power abs.	kW	0,13	0,31	0,31	0,61	0,63	0,65	1,53	1,63	1,73	1,89	1,96	3,51	3,69	3,82	3,97	5,01	5,54	6,97	7,51	
HP EC radial fans power abs.	kW	0,1	0,26	0,27	0,53	0,55	0,58	1,70	1,82	1,92	2,04	2,11	3,89	4,08	4,11	4,25	5,57	6,14	7,48	8,06	
Power supply	V/Ph/Hz	230/3/60			230/3/60			230/3/60			230/3/60			230/3/60			230/3/60			230/3/60	
BASIC EC radial fans power abs.	kW	0,13	0,31	0,31	0,61	0,63	0,65	1,73	1,84	1,95	1,91	1,99	3,92	4,12	3,88	4,05	5,66	6,24	7,31	7,96	
<b>VENTILATION</b>																					
No. fans	No.	1			2			1			1			2			2	2	3	3	3
Sound pressure	(2) dB(A)	47	50	50	54			60			62			65			67	67	69	69	70
<b>HUMIDIFIER</b>																					
Capacity	kg/h	3			5			5			5			8			8	8	10	10	15
<b>BASIC ELECTRICAL HEATERS</b>																					
Steps		3			3			3			3			3			3			3	
Heating capacity	kW	4			8			9			15			18			18	18	24	24	24
<b>DIMENSIONS</b>																					
Length	mm	600			1000			1000			1550			2100			2650			3200	
Depth	mm	500			500			890			890			890			890			890	
Height	mm	1980			1980			2180			2180			2180			2180			2180	

(1) Water 7-12°C, air 24°C/50% - ESP 20Pa

(2) Measured at 1.5 m height and 2 m front free



## AB

Close control DUAL COIL air conditioner 31 - 148 kW



Ductable close control air-conditioners units with capacity ranging from 31 to 148 kW for vertical installation and cooling only, with optional heating by means of heating elements and hot water, optional humidifier and dehumidifier for precise temperature and humidity control.

Particularly suitable for air conditioning technological, servers and IT rooms and all technological applications in general. The unit has to be connected to 2 completely independent circuits each one a back-up for the other. Power supply std 400V/3N/50Hz, 60Hz versions also available (230V/3/60Hz, 380V/3/60Hz, 460V/3/60Hz).

### AB Dual Coil Chilled Water

Model		0302	0352	0452	0552	0702	0852	0902	1052	1252	1302	1502
Frames		FRAME 3			FRAME 4		FRAME 5		FRAME 7		FRAME 8	
Airflow	m³/h	10000			12500		21000		25000	25000	30000	36000
<b>PERFORMANCE</b>												
Total cooling capacity	(1) kW	31,1	36,3	45,5	52,6	71,2	82,3	89,6	103,1	124,7	131,3	148,2
Sensible cooling capacity	(1) kW	27,3	30,7	38,3	42,7	61,1	68	75,9	84,1	111,8	128,2	136,6
SHR	(1)	0,88	0,85	0,84	0,81	0,86	0,83	0,85	0,82	0,90	0,98	0,92
Total pressure drop	(1) kPa	76	70	95	73	120	118	155	124	82	55	56
Power supply	V/Ph/Hz	400/3N/50			400/3N/50		400/3N/50		400/3N/50		400/3N/50	
BASIC EC radial fans power abs.	kW	1,63	1,73	1,89	1,96	3,51	3,69	3,82	3,97	5,54	6,97	7,51
HP EC radial fans power abs.	kW	1,82	1,92	2,04	2,11	3,89	4,08	4,11	4,25	6,14	7,48	8,06
Power supply	V/Ph/Hz	460/3/60			460/3/60		460/3/60		460/3/60		460/3/60	
BASIC EC radial fans power abs.	kW	1,63	1,73	1,89	1,96	3,51	3,69	3,82	3,97	5,54	6,97	7,51
HP EC radial fans power abs.	kW	1,82	1,92	2,04	2,11	3,89	4,08	4,11	4,25	6,14	7,48	8,06
Power supply	V/Ph/Hz	380/3/60			380/3/60		380/3/60		380/3/60		380/3/60	
BASIC EC radial fans power abs.	kW	1,63	1,73	1,89	1,96	3,51	3,69	3,82	3,97	5,54	6,97	7,51
HP EC radial fans power abs.	kW	1,82	1,92	2,04	2,11	3,89	4,08	4,11	4,25	6,14	7,48	8,06
Power supply	V/Ph/Hz	230/3/60			230/3/60		230/3/60		230/3/60		230/3/60	
BASIC EC radial fans power abs.	kW	1,84	1,95	1,91	1,99	3,92	4,12	3,88	4,05	6,24	7,31	7,96
<b>VENTILATION</b>												
No. fans	No.	1			1		2		2	2	3	3
Sound pressure	(2) dB(A)	60			62		65		67	67	69	70
<b>HUMIDIFIER</b>												
Capacity	kg/h	5			5		8		8	8	10	15
<b>BASIC ELECTRICAL HEATERS</b>												
Steps		3			3		3		3		3	
Heating capacity	kW	9			15		18		18	18	24	24
<b>DIMENSIONS</b>												
Length	mm	1000			1550		2100		2650		3200	
Depth	mm	890			890		890		890		890	
Height	mm	2180			2180		2180		2180		2180	

(1) Water 7-12°C, air 24°C/50% - ESP 20Pa






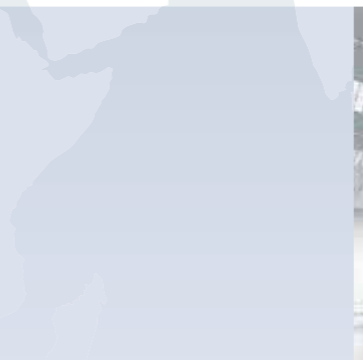





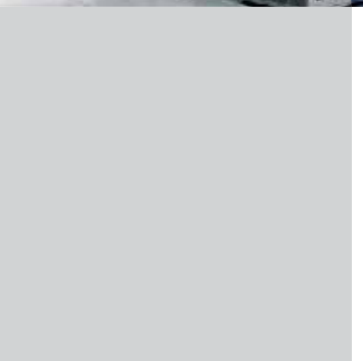

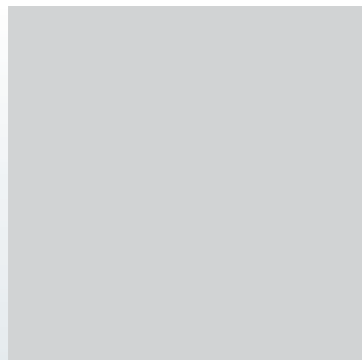
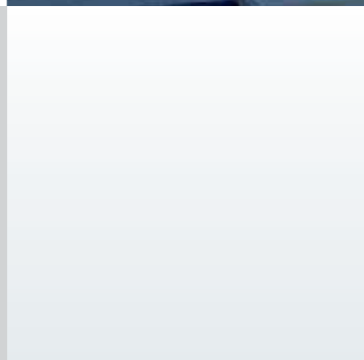





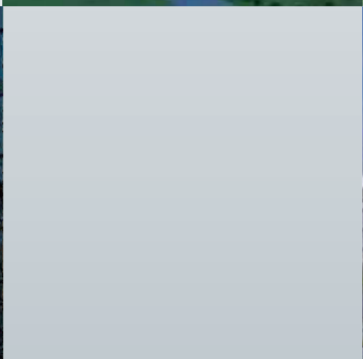

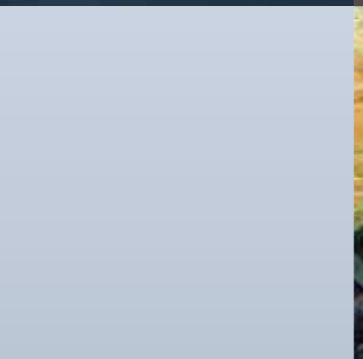

(2) Measured at 1.5 m height and 2 m front free field



# “Experience is by far the best proof”

Sir Francis Bacon  
British Philosopher (1561 - 1626)

Climaveneta solutions for data center cooling, with their unbeatable advantages in terms of efficiency, quality and reliability, are already the preferred choice in the most challenging and prestigious projects, all around the world and with many major brands.

<p><b>Alcatel</b> Bergamo - Italy</p> <p>Data Center Total cooling capacity: 3570 kW Installed units: 39x AC, 7x AX Close Control units</p> 		<p><b>CNES</b> <b>Centre National d'Etudes Spatiales</b> Saint Denis - France</p> <p>Data Center Total cooling capacity: 432 kW Installed units: 12x CRCC-I Rack Cooler, 1x FOCS-W, 4x AC Close Control units</p> 					<p><b>Cisco Systems Vimercate</b> Milan - Italy</p> <p>Office Buildings Total cooling capacity: 4505 kW Total thermal capacity: 459 kW Installed units: 1x TECS2/SL-CA, 2x TECS-W, 1x ERACS2-WQ, 2x FOCS/SL, 1x FX-FC, 1x ClimaPRO, 4x AC close control unit</p>
	<p><b>Eon Energy Research Centre</b> Aachen - Germany</p> <p>Energy Total cooling capacity: 275 kW Installed units: 3x WHISPER, 2x AC Close Control units</p>			<p><b>Vodafone Datacenter</b> Padua - Italy</p> <p>Data Center Total cooling capacity: 968 kW Installed units: 2x NX/LN-KS, 6x AC Close Control</p>			
		<p><b>Galileo Connect</b> London - United Kingdom</p> <p>Data Center Total thermal capacity: 4852 kW Installed units: 3x TECS2/XL-CA, 1x MANAGER 3000, 15x ACU HT 070, 14x ACU HT 030</p>			<p><b>Hannover Messe</b> Hannover - Germany</p> <p>Fairs Total cooling capacity: 240 kW Installed units: 3x FOCS/W/R, 3x ACU 80</p>		
	<p><b>IBM Server Room</b> Warsaw - Poland</p> <p>Data Center Total cooling capacity: 1800 kW Installed units: 3x FOCS-ME, 9x AC 070 Close Control units, 4x AC 041 Close Control units, 2x FOCS-W</p>			<p><b>Karolinska University Hospital</b> Stockholm - Sweden</p> <p>Healthcare Total cooling capacity: 307 kW Installed units: 23x ACU09, 4x ACU25 Close Control Unit</p>			<p><b>Range International Information Group Data Center</b> Langfang - China</p> <p>Data Center Total cooling capacity: 12700 kW Installed units: 24x AC 221, 18x AC 25, 5x air cooled chillers</p>



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