

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.

Regulation valves

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

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.



50-60 Hz



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
PERFORMANCE											
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
VENTILATION											
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
HUMIDIFIER											
Capacity	kg/h	5	5	5	5	8	8	10	10	15	15
BASIC ELECTRICAL HEATERS											
Steps		3	3	3	3	3	3	3	3	3	3
Heating capacity	kW	9	9	15	15	18	18	18	18	24	24
DIMENSIONS											
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
PERFORMANCE										
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
VENTILATION										
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
HUMIDIFIER										
Capacity	kg/h	5	5	5	5	8	8	10	10	15
BASIC ELECTRICAL HEATERS										
Steps		3	3	3	3	3	3	3	3	3
Heating capacity	kW	9	9	15	15	18	18	18	18	24
DIMENSIONS										
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