



AWO / AWU

Close control air conditioner

**Type: DUAL FLUID, AIR COOLED,
upflow or downflow version**

Configurations

BASIC

For applications up to 32°C air intake

Versions

BASIC

Cooling only without condensation control device

MOD_A

Cooling only with condensation control device with speed regulation for the external unit.

For closed circuit installation

MOD_B

Cooling only with condensation control device with pressure valve.

For open circuit installation (well water)

UNIT DESCRIPTION

Ductable close control air-conditioners with capacities ranging from 5 to 99 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 IT environments and technological applications, ACCURATE AW is available standard with 50Hz and 60Hz power supply (400V/3N/50Hz, 230V/3/60Hz, 380V/3/60Hz, 460V/3/60Hz).

STANDARD UNIT COMPOSITION

- Unit for indoor or outdoor installation
- Maximum resistance to rust thanks to galvanized sheet metal structures and panels with powder-coated paint finish. The panels are lined with sound-insulating material.
- The reliability and functionality of the compressor and all the other components are guaranteed by partners who are world leaders in their sector.
- New EC fans with electronically commutated motors in order to increase energy savings and reduce noise emissions.
- Condensation control for minimum noise (standard).
- Standard G4 filtering section, F5-F8 optional, under CEN-EN 779 rule with 90,1% degrees of separation ASHRAE. The filter is the self-extinguishing type.
- The microprocessor controls the compressor activation times with FIFO logic, thereby regulating the cooling capacity; it also controls the operating alarms with the possibility of interfacing to supervisor and remote servicing systems.
- Electrical box under IEC 204-1/EN60204-1 rules.
- Refrigerant circuit consisting of the standard version of a thermostat with a valve for internal pressure relief, a solenoid valve, a high/low pressure safety pressure switch, a liquid indicator light and a dehydrating filter.



Model		5	7	10	15	18	20	26	29	39	30	40	50	55	60	70	80	90	
Frame		F1			F2		F3			F4				F5		F6			
No. Circuits/ No. Compressors		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2
Refrigerant		R410A			R410A		R410A			R410A				R410A		R410A			
Nominal air flow	mc/h	1800	2500	2500	4900	4900	6500	8000	8000	13500	10500	13500	13500	19000	19000	19000	25000	25000	
Power supply	V/Ph/Hz	230/1/50	400/3N/50		400/3N/50		400/3N/50			400/3N/50				400/3N/50		400/3N/50			
PERFORMANCE																			
Total cooling capacity	(1) kW	5,26	7,5	9,8	16,9	19,8	24,5	29,2	33,0	43,0	34,8	48,5	54,5	62,6	70,8	77,4	90,6	99,3	
Sensible cooling capacity	(1) kW	5,08	7,5	9,3	16,9	18,3	23,8	28,3	29,9	43,0	34,8	48,4	49,9	62,6	69,1	71,1	90,0	92,8	
SHR	(1)	0,97	1,00	0,95	1,00	0,92	0,97	0,97	0,91	1,00	1,00	1,00	0,92	1,00	0,98	0,92	0,99	0,93	
Compressors absorbed power	kW	1,1	1,47	1,91	3,26	3,93	4,28	5,38	6,24	6,91	6,42	8,53	10,76	10,77	12,38	13,54	15,90	19,15	
EC radial fans power abs.	kW	0,16	0,40	0,40	0,84	0,84	1,35	1,80	1,80	3,20	1,30	3,20	3,20	4,50	4,50	4,50	6,10	6,10	
HP EC radial fans power abs.	kW	0,13	0,27	0,27	0,53	0,53	0,89	1,69	1,69	3,51	2,09	3,51	3,51	5,11	5,11	5,11	6,72	6,72	
VENTILATION																			
No. EC radial fans		1	1	1	2	2	1	1	1	2	2	2	2	3	3	3	3	3	
No. HP EC radial fans		1	1	1	2	2	1	1	1	2	2	2	2	3	3	3	4	4	
Sound pressure level	(5) dB(A)	43	50	50	53	53	56	60	60	64	59	64	64	67	67	67	67	67	
HUMIDIFIER																			
Capacity	kg/h	3	3	3	5	5	5	5	5	5	5	5	5	8	8	8	8	8	
ELECTRICAL HEATERS																			
Steps		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
Heating capacity	kW	4	4	4	8	8	9	9	9	15	15	15	15	18	18	18	18	18	
DIMENSIONS																			
Length	mm	600			1000		1000			1550				2100		2650			
Depth	mm	500			500		790			790				790		790			
Height	mm	1980			1980		1980			1980				1980		1980			

NOTES

1) Air IN 24°C-50%, cond. water temperature 30-35°C - ESP 20Pa

5) Measured at 1,5m height, 2m in front of the unit in free field

The units highlighted in this publication contain HFC R410A [GWP₁₀₀ 1975] fluorinated greenhouse gases.

OPTIONS/ACCESSORIES

- Remote user terminal
- Electric heating coil
- Water heating coil
- Humidifier
- HP EC radial fans (High Pressure)
- Vibration isolation frame with rubber mountings
- Air distribution plenum
- Soundproof plenum
- Interface electronic board