

UBP PLUS AC



Thermal
and acoustic
insulation



Bioxygen



SP up to 350 Pa

DESCRIPTION

High available static pressure ventilation and air conditioning units, model UBP PLUS AC by Arfit. Systems designed to provide efficient and flexible solutions for commercial and industrial environments. Low-profile ducted units equipped with 230 V single-phase AC motors with 3 speeds.

UBP PLUS AC units feature a galvanized steel structure with internal thermal insulation, ensuring durability and efficiency.

Airflows from 3500 to 6000 m³/h. ESP up to 350 Pa. Available in versions with 3-row or 6-row coils for 2-pipe systems, and 3R+2R coils for 4-pipe systems. Hydraulic connections on the right side (standard) or left side, with reversible configuration available.

ADVANTAGES

- Robustness, versatility, and durability.
- Reduced height, suitable for indoor duct installation with high capacity and high available static pressure.
- Structure designed to reduce noise levels, providing more comfortable environments.
- Installation flexibility with reversible hydraulic connections and mounting options that facilitate adaptation to site conditions.
- Possibility of integrating the Be.On module with direct cloud connection and Be.Smart monitoring.

ACCESSORIES

- Acoustic attenuators
- G3, M5, and F7 filters
- 2-way or 3-way valves with On-Off or Modulating actuator
- Auxiliary valve drain tray
- Electrical heaters
- Thermostat with ModBus communication
- Relay box

COMPONENTS

MOTOR

Single-phase AC motor with 3 speeds and 230 V power supply. Double-inlet centrifugal fan with forward-curved aluminum blades, directly coupled to the motor. Manufactured in accordance with international standards, mounted on elastic anti-vibration supports, and statically and dynamically balanced. Easy removal (fixed with only 4 screws).

COOLING COIL

Sections with cooling coils are equipped with an inclined condensate drain tray, with a 30 mm drain connection for more effective condensate removal. The condensate tray is made of galvanized steel with external thermal insulation (Class M1).

WATER COIL

Highly efficient water coil made of copper tubes with aluminum fins mechanically expanded onto the tubes. Tested at 30 bar pressure, suitable for operation with water at a maximum pressure of 15 bar. Standard connections on the right side; left-side connections are available and can be easily reversed, even on-site. Coils are suitable for operation with hot water (boilers), low-temperature hot water (condensing boilers, solar panels, heat pumps, etc.), chilled water (chillers and/or industrial processes), and water with glycol addition. Versions are available with 3-row coils, 6-row coils, and 3 + 2-row coils in the 4-pipe version.

CHARACTERISTICS

2-PIPE UNITS

UBP PLUS AC 3R 2T	4			5			6		
Speed	min.	méd.	max.	min.	méd.	max.	min.	méd.	max.
Airflow (m³/h)	2046	2664	3379	3182	3689	4233	3459	4147	4556
Static pressure (Pa)	200			200			200		
Motor Power (kW)	1,6			1,7			2,1		
IMAX (A)	7			7,2			9		
Sound Pressure (dB(A))	43	47	53	48	52	58	47	51	57
Total cooling capacity (kW)	12,33	14,44	16,58	16,68	18,19	19,69	20,82	23,16	24,44
Sensible cooling capacity (kW)	9,44	11,46	13,61	13,03	14,50	16,02	15,97	18,22	19,50
Water outlet temperature during cooling mode (°C)*	10,7	11,4	12	11,2	11,6	12	11,3	11,7	12
Water flow rate (l/h)	2851			3387			4204		
Water pressure drop (kPa)	26,2			22,2			22,1		
Heating capacity (kW)	14,01	16,84	19,82	19,18	21,23	23,32	23,51	26,63	28,29
Water outlet temperature during heating mode (°C)**	41,5	40,8	40	40,9	40,5	40	40,9	40,3	40
Water flow rate (l/h)	3409			4012			4883		
Water pressure drop (kPa)	32,5			27			25,9		
Main coil	3R			3R			3R		

UBP PLUS AC 3R 2T	12			13			14		
Speed	min.	méd.	max.	min.	méd.	max.	min.	méd.	max.
Airflow (m³/h)	2608	3647	4819	2528	3502	5220	4092	5327	6759
Static pressure (Pa)	200			200			200		
Motor Power (kW)	2,3			2,3			3,2		
IMAX (A)	10			10			14		
Sound Pressure (dB(A))	45	51	57	43	48	57	46	50	56
Total cooling capacity (kW)	16,29	19,96	23,47	17,65	21,54	27,23	24,65	28,88	33,15
Sensible cooling capacity (kW)	12,52	16,03	19,61	12,94	16,47	22,01	18,96	23,00	27,32
Water outlet temperature during cooling mode (°C)*	10,5	11,3	12	10,2	11	12	10,7	11,4	12
Water flow rate (l/h)	4037			4683			5702		
Water pressure drop (kPa)	24,4			22,5			27,6		
Heating capacity (kW)	18,68	23,62	28,60	19,36	24,34	32,05	27,85	33,47	39,39
Water outlet temperature during heating mode (°C)**	41,7	40,9	40	42	41,2	40	41,5	40,8	40
Water flow rate (l/h)	4918			5512			6776		
Water pressure drop (kPa)	31,5			27			33,9		
Main coil	3R			3R			3R		

*Cooling water inlet temperature at 7°C.

**Heating water inlet temperature at 45°C.



CHARACTERISTICS

2-PIPE UNITS

UBP PLUS AC 6R 2T	4			5			6		
Speed	min.	méd.	max.	min.	méd.	max.	min.	méd.	max.
Airflow (m³/h)	2017	2619	3331	3132	3583	4087	3374	4058	4453
Static pressure (Pa)	200			200			200		
Motor Power (kW)	1,6			1,7			2,1		
IMAX (A)	7			7,2			9		
Sound Pressure (dB(A))	43	47	53	48	52	58	47	51	57
Total cooling capacity (kW)	18,33	22,37	26,68	24,95	27,56	30,33	29,45	33,77	36,11
Sensible cooling capacity (kW)	12,54	15,68	19,19	17,28	19,36	21,62	20,31	23,74	25,65
Water outlet temperature during cooling mode (°C)*	10,4	11,2	12	11,1	11,5	12	11,1	11,7	12
Water flow rate (l/h)	4589			5217			6211		
Water pressure drop (kPa)	29,4			23,7			19,2		
Heating capacity (kW)	17,31	21,65	26,51	23,98	26,87	30,00	28,12	32,87	35,52
Water outlet temperature during heating mode (°C)**	41,7	40,9	40	41	40,5	40	41	40,4	40
Water flow rate (l/h)	4559			5160			6109		
Water pressure drop (kPa)	25,2			20,1			16,1		
Main coil	6R			6R			6R		

UBP PLUS AC 6R 2T	12			13			14		
Speed	min.	méd.	max.	min.	méd.	max.	min.	méd.	max.
Airflow (m³/h)	2492	3442	4325	2499	3443	5085	4034	5237	6662
Static pressure (Pa)	200			200			200		
Motor Power (kW)	2,3			2,3			3,2		
IMAX (A)	10			10			14		
Sound Pressure (dB(A))	45	51	57	43	48	57	46	50	56
Total cooling capacity (kW)	23,36	29,90	35,35	24,41	31,34	41,84	36,40	44,41	52,97
Sensible cooling capacity (kW)	16,12	21,26	25,76	16,35	21,57	29,98	24,89	31,12	38,10
Water outlet temperature during cooling mode (°C)*	10,3	11,2	12	9,9	10,7	12	10,4	11,2	12
Water flow rate (l/h)	6079			7197			9111		
Water pressure drop (kPa)	24			23,7			31,2		
Heating capacity (kW)	22,59	29,81	36,12	22,60	29,84	41,49	34,41	43,03	52,68
Water outlet temperature during heating mode (°C)**	41,9	40,9	40	42,3	41,4	40	41,7	40,9	40
Water flow rate (l/h)	6212			7136			9061		
Water pressure drop (kPa)	21,8			20,2			26,8		
Main coil	6R			6R			6R		

*Cooling water inlet temperature at 7°C.

**Heating water inlet temperature at 45°C.

CHARACTERISTICS

4-PIPE UNITS

UBP PLUS AC 3R+2R 4T	4			5			6		
Speed	min.	méd.	max.	min.	méd.	max.	min.	méd.	max.
Airflow (m³/h)	2017	2619	3331	3132	3583	4087	3374	4058	4453
Static pressure (Pa)	200			200			200		
Motor Power (kW)	1,6			1,7			2,1		
IMAX (A)	7			7,2			9		
Sound Pressure (dB(A))	43	47	53	48	52	58	47	51	57
Total cooling capacity (kW)	12,20	14,27	16,41	16,45	17,80	19,20	20,46	22,79	24,04
Sensible cooling capacity (kW)	9,34	11,31	13,46	12,85	14,16	15,58	15,66	17,90	19,14
Water outlet temperature during cooling mode (°C)*	10,7	11,4	12	11,3	11,6	12	11,3	11,7	12
Water flow rate (l/h)	2822			3303			4135		
Water pressure drop (kPa)	25,7			21,1			21,4		
Heating capacity (kW)	25,72	29,84	34,09	33,91	36,55	39,31	42,65	47,28	49,75
Water outlet temperature during heating mode (°C)**	65	62,6	60	62,8	61,4	60	62,9	61	60
Water flow rate (l/h)	1466			1690			2139		
Water pressure drop (kPa)	10,9			9,3			7,6		
Main coil	3R+2R			3R+2R			3R+2R		

UBP PLUS AC 3R+2R 4T	12			13			14		
Speed	min.	méd.	max.	min.	méd.	max.	min.	méd.	max.
Airflow (m³/h)	2492	3442	4325	2499	3443	5085	4034	5237	6662
Static pressure (Pa)	200			200			200		
Motor Power (kW)	2,3			2,3			3,2		
IMAX (A)	10			10			14		
Sound Pressure (dB(A))	45	51	57	43	48	57	46	50	56
Total cooling capacity (kW)	15,66	19,02	21,71	17,48	21,26	26,72	24,40	28,53	32,81
Sensible cooling capacity (kW)	12,03	15,25	17,99	12,81	16,24	21,55	18,74	22,69	27,01
Water outlet temperature during cooling mode (°C)*	10,6	11,4	12	10,3	11	12	10,7	11,4	12
Water flow rate (l/h)	3734			4596			5643		
Water pressure drop (kPa)	20,9			21,6			27,1		
Heating capacity (kW)	33,17	39,86	45,24	36,83	44,32	55,10	50,63	58,73	67,11
Water outlet temperature during heating mode (°C)**	65,4	62,4	60	66,7	64	60	65	62,6	60
Water flow rate (l/h)	1945			2369			2886		
Water pressure drop (kPa)	9,4			8,4			10,5		
Main coil	3R+2R			3R+2R			3R+2R		

*Cooling water inlet temperature at 7°C.

**Heating water inlet temperature at 80°C.

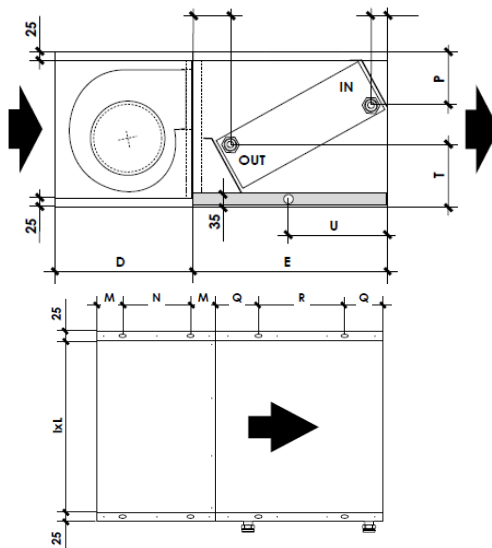
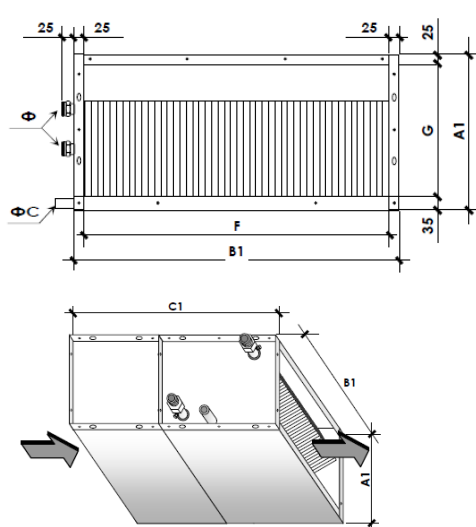
*Sound pressure level measured at 3 m in free field conditions

DIMENSIONS

2-PIPE UNITS

UBP PLUS AC 3R 2T	4	5	6	12	13	14
A1 (mm)	480	550	550	425	425	480
B1 (mm)	760	1160	1360	1160	1360	1360
C1 (mm)	1160	1140	1240	995	1105	1160
D (mm)	480	550	550	425	425	480
E (mm)	680	590	690	570	680	680
F (mm)	710	1110	1310	1110	1310	1310
G (mm)	420	490	490	365	365	420
I (mm)	710	1110	1310	1110	1310	1310
L (mm)	430	500	500	375	375	430
C (mm)	30	30	30	30	30	30
U (mm)	340	295	345	285	340	340
M (mm)	100	95	95	95	95	100
N (mm)	280	360	360	235	235	280
Q (mm)	160	160	160	160	160	160
R (mm)	360	370	370	250	360	360
Weight (kg)	58,2	89,7	105,8	74,5	92,8	101,5

UBP PLUS AC 6R 2T	4	5	6	12	13	14
A1 (mm)	480	550	550	425	425	480
B1 (mm)	760	1160	1360	1160	1360	1360
C1 (mm)	1160	1140	1240	995	1105	1160
D (mm)	480	550	550	425	425	480
E (mm)	680	590	690	570	680	680
F (mm)	710	1110	1310	1110	1310	1310
G (mm)	420	490	490	365	365	420
I (mm)	710	1110	1310	1110	1310	1310
L (mm)	430	500	500	375	375	430
C (mm)	30	30	30	30	30	30
U (mm)	340	295	345	285	340	340
M (mm)	100	95	95	95	95	100
N (mm)	280	360	360	235	235	280
Q (mm)	160	160	160	160	160	160
R (mm)	360	370	370	250	360	360
Weight (kg)	69,6	108,7	125,8	93,5	112,8	121,5



DIMENSIONS

4-PIPE UNITS

UBP PLUS AC 3R+2R 4T	4	5	6	12	13	14
A1 (mm)	480	550	550	425	425	480
B1 (mm)	760	1160	1360	1160	1360	1360
C1 (mm)	1160	1140	1240	995	1105	1160
D (mm)	480	550	550	425	425	480
E (mm)	680	590	690	570	680	680
F (mm)	710	1110	1310	1110	1310	1310
G (mm)	420	490	490	365	365	420
I (mm)	710	1110	1310	1110	1310	1310
L (mm)	430	500	500	375	375	430
C (mm)	30	30	30	30	30	30
U (mm)	340	295	345	285	340	340
M (mm)	100	95	95	95	95	100
N (mm)	280	360	360	235	235	280
Q (mm)	160	160	160	160	160	160
R (mm)	360	370	370	250	360	360
Weight (kg)	67,2	104,7	123,8	89,5	110,8	119,5

