

UBP PLUS EC



Thermal
and acoustic
insulation



Bioxigen



EC
Technology

350 Pa

SP up to 350 Pa

DESCRIPTION

High available static pressure ventilation and air conditioning units, model UBP PLUS EC by Arfit. Systems designed to provide efficient and flexible solutions for commercial and industrial environments. Low-profile ducted units equipped with 230 V EC brushless motors, known for their superior efficiency and silent operation.

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

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

HEE (High Energy Efficiency) motor with high efficiency (greater than 50%) and consequent CO₂ reduction. Speed control via 0-10 V (DC) signal using the CM3D or TH thermostat. 0-100% airflow modulation (and consequently heating and cooling capacity modulation) allows performance to be adjusted in real time according to the actual requirements of the conditioned space, ensuring total comfort and reduced noise levels.

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 EC 3R 2T	4			5			6		
Speed	min.	méd.	max.	min.	méd.	max.	min.	méd.	max.
Airflow (m³/h)	845	1945	3050	2295	3280	4260	1485	3460	5430
Static pressure (Pa)	200			200			200		
Motor Power (kW)	1,1			1,0			2,2		
IMAX (A)	4,6			4,4			9,5		
Sound Pressure (dB(A))	29	42	51	43	50	56	33	47	57
Total cooling capacity (kW)	6,99	11,82	15,40	13,70	16,99	19,78	12,48	21,27	27,73
Sensible cooling capacity (kW)	4,84	9,04	12,54	10,25	13,32	16,10	8,58	16,16	22,44
Water outlet temperature during cooling mode (°C)*	9,3	10,8	12	10,5	11,3	12	9,3	10,8	12
Water flow rate (l/h)	2648			3402			4770		
Water pressure drop (kPa)	22,6			22,4			28,5		
Heating capacity (kW)	7,42	13,45	18,34	15,26	19,59	23,44	12,99	23,75	32,41
Water outlet temperature during heating mode (°C)**	43	41,3	40	41,8	40,8	40	43	41,3	40
Water flow rate (l/h)	3155			4031			5575		
Water pressure drop (kPa)	27,9			27,3			33,8		
Main coil	3R			3R			3R		

UBP PLUS EC 3R 2T	12			13			14		
Speed	min.	méd.	max.	min.	méd.	max.	min.	méd.	max.
Airflow (m³/h)	1800	3400	5000	1770	3840	5900	1690	3890	6100
Static pressure (Pa)	200			200			200		
Motor Power (kW)	2,2			2,2			2,2		
IMAX (A)	9,2			9,2			9,2		
Sound Pressure (dB(A))	36	48	57	34	47	57	32	45	54
Total cooling capacity (kW)	12,95	19,23	24,10	14,21	23,10	29,74	13,97	23,63	30,79
Sensible cooling capacity (kW)	9,51	15,27	20,20	9,95	17,76	24,27	6,72	18,14	25,17
Water outlet temperature during cooling mode (°C)*	9,7	11	12	9,4	10,9	12	9,70	10,8	12
Water flow rate (l/h)	4145			5115			5296		
Water pressure drop (kPa)	25,8			26,8			23,8		
Heating capacity (kW)	14,37	22,55	29,40	15,07	26,14	35,15	14,75	26,73	36,46
Water outlet temperature during heating mode (°C)**	42,6	41,2	40	42,9	41,3	40	43	41,3	40
Water flow rate (l/h)	5057			6046			6271		
Water pressure drop (kPa)	33,3			32,5			29		
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 EC 6R 2T	4			5			6		
Speed	min.	méd.	max.	min.	méd.	max.	min.	méd.	max.
Airflow (m³/h)	845	1945	3050	2295	3280	4260	1485	3460	5430
Static pressure (Pa)	200			200			200		
Motor Power (kW)	1,1			1,0			2,2		
IMAX (A)	4,6			4,4			9,5		
Sound Pressure (dB(A))	29	42	51	43	50	56	33	47	57
Total cooling capacity (kW)	9,00	17,62	24,63	19,75	25,99	31,49	15,61	30,89	43,21
Sensible cooling capacity (kW)	5,80	12,08	17,67	13,27	18,03	22,47	10,02	21,08	30,88
Water outlet temperature during cooling mode (°C)*	8,8	10,6	12	10,1	11,1	12	8,8	10,6	12
Water flow rate (l/h)	4237			5416			7433		
Water pressure drop (kPa)	25,1			25,5			27,5		
Heating capacity (kW)	8,01	16,69	24,43	18,40	15,02	31,17	13,83	29,12	42,67
Water outlet temperature during heating mode (°C)**	43,4	41,6	40	42,1	41	40	43,4	41,6	40
Water flow rate (l/h)	4202			5362			7340		
Water pressure drop (kPa)	21,4			21,7			23,3		
Main coil	6R			6R			6R		

UBP PLUS EC 6R 2T	12			13			14		
Speed	min.	méd.	max.	min.	méd.	max.	min.	méd.	max.
Airflow (m³/h)	1800	3400	5000	1770	3840	5900	1690	3890	6100
Static pressure (Pa)	200			200			200		
Motor Power (kW)	2,2			2,2			2,2		
IMAX (A)	9,2			9,2			9,2		
Sound Pressure (dB(A))	36	48	57	34	47	57	32	45	54
Total cooling capacity (kW)	18,28	30,28	40,30	18,68	34,78	47,87	17,86	34,99	48,91
Sensible cooling capacity (kW)	12,23	21,30	29,50	12,15	23,96	34,45	11,52	23,97	35,08
Water outlet temperature during cooling mode (°C)*	9,3	10,8	12	9	10,6	12	8,8	10,6	12
Water flow rate (l/h)	6932			8233			8413		
Water pressure drop (kPa)	31,3			31			26,6		
Heating capacity (kW)	17,10	29,81	41,30	16,76	33,09	47,60	15,92	33,16	48,56
Water outlet temperature during heating mode (°C)**	42,9	41,4	40	43,2	41,5	40	43,4	41,6	40
Water flow rate (l/h)	7104			8188			8352		
Water pressure drop (kPa)	28,5			26,6			22,8		
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 EC 3R+2R 4T	4			5			6		
Speed	min.	méd.	max.	min.	méd.	max.	min.	méd.	max.
Airflow (m³/h)	845	1945	3050	2295	3280	4260	1485	3460	5430
Static pressure (Pa)	200			200			200		
Motor Power (kW)	1,1			1,0			2,2		
IMAX (A)	4,6			4,4			9,5		
Sound Pressure (dB(A))	29	42	51	43	50	56	33	47	57
Total cooling capacity (kW)	6,99	11,82	15,40	13,70	16,99	19,78	12,48	21,27	27,73
Sensible cooling capacity (kW)	4,84	9,04	12,54	10,25	13,32	16,10	8,58	16,16	22,44
Water outlet temperature during cooling mode (°C)*	9,3	10,8	12	10,5	11,3	12	9,3	10,8	12
Water flow rate (l/h)	2648			3402			4770		
Water pressure drop (kPa)	22,6			22,4			28,5		
Heating capacity (kW)	13,18	22,10	28,95	25,03	31,10	36,35	23,05	38,93	51,03
Water outlet temperature during heating mode (°C)**	65,5	62,4	60	63,1	61,5	60	65,5	62,4	60
Water flow rate (l/h)	2490			3126			4389		
Water pressure drop (kPa)	32,2			32,7			32,7		
Main coil	3R+2R			3R+2R			3R+2R		

UBP PLUS EC 3R+2R 4T	12			13			14		
Speed	min.	méd.	max.	min.	méd.	max.	min.	méd.	max.
Airflow (m³/h)	1800	3400	5000	1770	3840	5900	1690	3890	6100
Static pressure (Pa)	200			200			200		
Motor Power (kW)	2,2			2,2			2,2		
IMAX do motor (A)	9,2			9,2			9,2		
Sound Pressure (dB(A))	36	48	57	34	47	57	32	45	54
Total cooling capacity (kW)	12,95	19,23	24,10	14,21	23,10	29,74	13,97	12,63	30,79
Sensible cooling capacity (kW)	9,51	15,27	20,20	9,95	17,76	24,27	9,72	18,14	25,17
Water outlet temperature during cooling mode (°C)*	9,7	11	12	9,4	10,9	12	9,3	10,8	12
Water flow rate (l/h)	4145			5115			5296		
Water pressure drop (kPa)	25,8			26,8			23,8		
Heating capacity (kW)	24,04	35,55	44,80	26,18	42,26	54,69	25,95	43,49	56,99
Water outlet temperature during heating mode (°C)**	64,7	62,1	60	65,2	62,3	60	65,5	62,4	60
Water flow rate (l/h)	3853			4703			4901		
Water pressure drop (kPa)	37,7			33,9			31		
Main coil	3R+2R			3R+2R			3R+2R		

*Cooling water inlet temperature at 7°C.

**Heating water inlet temperature at 70°C.

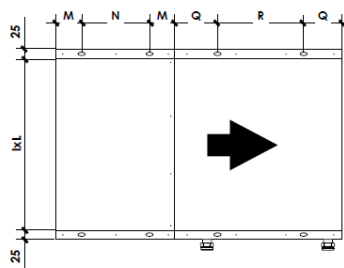
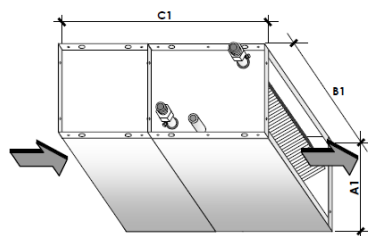
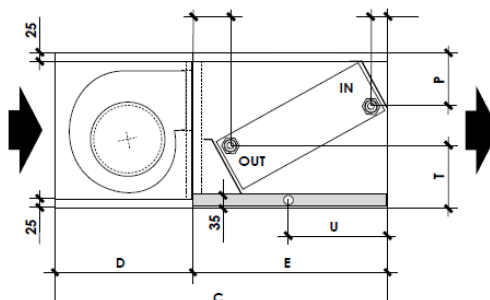
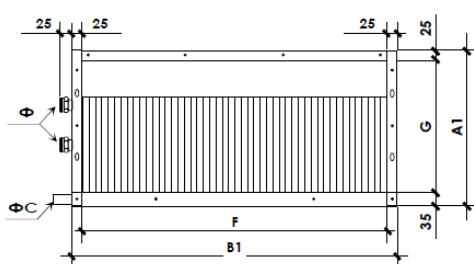
*Sound pressure level measured at 3 m in free field conditions according to ISO 3741 - ISO 3742.

DIMENSIONS

2-PIPE UNITS

UBP PLUS EC 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)	56	88,1	103,7	75,1	92,6	97,1

UBP PLUS EC 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)	67,4	107,1	123,7	94,1	112,6	117,1



DIMENSIONS

4-PIPE UNITS

UBP PLUS EC 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

