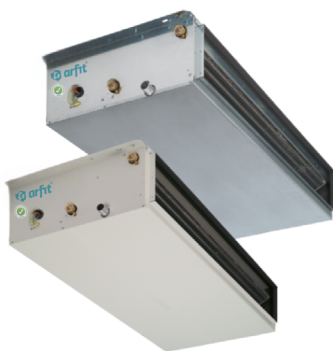


UBP AC



Thermal
and acoustic
insulation



Bioxigen

DESCRIPTION

Low profile unit, model UBP, with removable self-supporting panels, provided with fixing holes for direct ceiling or wall mounting through the structure, and reversible unit access on-site for easy maintenance.

Structure type available with galvanized steel panel and internal thermal-acoustic insulation (Class M1) on all parts in contact with the coils.

Available in 9 sizes for 2-pipe systems and 12 sizes for 4-pipe systems, with rear or front air intake and horizontal or vertical installation.

ADVANTAGES

- High efficiency.
- Removable self-supporting panels.
- Compact dimensions.
- Easy maintenance.
- Acoustic attenuation.
- Optional double-skin panels with 25 mm insulation.
- Optional marine protection coating.
- Optional stainless steel panels.

ACCESSORIES

- G3 filter
- Plenum with G3 filter
- Plenum with G7 filter
- Bioxigen
- Standard control thermostat, with optional ModBus communication
- 3-way valve kit with On-Off or Modulating actuator
- 2-way valve kit with On-Off or Modulating actuator
- Auxiliary condensate drain tray for valves
- Unit in pre-painted steel sheet
- Unit with double-skin panel and 20 mm fiberglass insulation
- Electrical heaters
- Acoustic attenuators

COMPONENTS

MOTOR

Single-phase asynchronous AC motor with 5 speeds (3 factory wired), equipped with TH thermal protection (Klixon), permanently connected run capacitor, 4 poles, IP20, Class F, double insulation, 230 V (AC) - 1Ph - 50/ 60 Hz.

FAN

Ventilation section composed of 1, 2, or 3 double-inlet centrifugal fans with latest-generation ABS blades, directly coupled to the motor. Manufactured in accordance with international standards. Mounted on anti-vibration supports, statically and dynamically balanced. Large-diameter fans (high airflow and high static pressure) with low RPM speed (low noise level), easy to remove, and available in different motor configurations.

WATER COIL

High-efficiency heat exchanger composed of copper tubes and aluminum fins mechanically expanded onto the tubes. Coil connections are supplied with anti-torsion system, manual air vent, and water drain valves. Standard hydraulic connections on the right side, with left-side hydraulic connections available on request. Unit hydraulic connections can be easily reversed on-site. Unit suitable for installation in 2-pipe or 4-pipe systems. Coils tested at 30 bar pressure, suitable for operation with water at a maximum pressure of 15 bar.

CHARACTERISTICS

UBP AC 2 PIPES	122			132			142		
Speed	min.	med.	max.	min.	med.	max.	min.	med.	max.
Airflow (m³/h)	552	812	1010	645	923	1144	629	905	1110
Water flow rate (2) (l/h)	980			1258			1472		
Water flow rate (3) (l/h)	1079			1359			1443		
Motor Power (kW)	0,3			0,3			0,3		
Power Supply (V F Hz)	230 1 50			230 1 50			230 1 50		
IMAX (A)	1,25			1,25			1,25		
Sound Pressure (4) (dB(A))	34	43	49	35	44	50	35	44	50
Static Pressure (Pa)	100			100			100		
Water pressure drop (2) (kPa)	25,0			28,2			27,6		
Water pressure drop (3) (kPa)	26,3			28,6			23,0		
Total cooling capacity (1) (kW)	4,19	5,11	5,70	5,46	6,57	7,31	6,41	7,73	8,56
Sensible cooling capacity (1) (kW)	2,90	3,74	4,31	3,72	4,72	5,42	4,20	5,34	6,10
Heating capacity (3) (kW)	4,36	5,51	6,28	5,59	6,96	7,90	5,95	7,42	8,39
Main coil	3R			3R			4R		



CHARACTERISTICS

UBP AC 2 PIPES	222			232			242		
Speed	min.	med.	max.	min.	med.	max.	min.	med.	max.
Airflow (m³/h)	1158	1786	2006	1310	1997	2232	1259	1900	2107
Water flow rate (2) (l/h)	1697			2177			2539		
Water flow rate (3) (l/h)	1984			2491			2622		
Motor Power (kW)	0,6			0,6			0,6		
Power Supply (V F Hz)	230 1 50			230 1 50			230 1 50		
IMAX (A)	2,70			2,70			2,70		
Sound Pressure (4) (dB(A))	37	48	51	38	49	52	38	49	52
Static Pressure (Pa)	100			100			100		
Water pressure drop (2) (kPa)	19,0			26,6			21,1		
Water pressure drop (3) (kPa)	22,5			30,3			19,5		
Total cooling capacity (1) (kW)	7,47	9,32	9,87	9,66	11,98	12,66	11,37	14,02	14,76
Sensible cooling capacity (1) (kW)	5,45	7,24	7,80	6,91	9,11	9,79	7,77	10,17	10,87
Heating capacity (3) (kW)	8,29	10,77	11,53	10,51	13,56	14,49	11,18	14,33	15,2
Main coil	3R			3R			4R		
UBP AC 2 PIPES	322			332			342		
Speed	min.	med.	max.	min.	med.	max.	min.	med.	max.
Airflow (m³/h)	2122	2714	2997	2376	3036	3300	2268	2856	3150
Water flow rate (2) (l/h)	2383			3051			3669		
Water flow rate (3) (l/h)	2863			3579			3821		
Motor Power (kW)	0,8			0,8			0,8		
Power Supply (V F Hz)	230 1 50			230 1 50			230 1 50		
IMAX (A)	3,90			3,90			3,90		
Sound Pressure (4) (dB(A))	46	51	53	47	52	54	47	52	54
Static Pressure (Pa)	100			100			100		
Water pressure drop (2) (kPa)	14,5			20,8			17,5		
Water pressure drop (3) (kPa)	18,2			24,9			16,5		
Total cooling capacity (1) (kW)	11,65	13,19	13,86	15,04	17,02	17,74	18,10	20,33	21,33
Sensible cooling capacity (1) (kW)	8,95	10,51	11,20	11,30	13,26	14	12,75	14,82	15,79
Heating capacity (3) (kW)	13,54	15,69	16,65	17,09	19,801	20,81	18,25	20,96	22,21
Main coil	3R			3R			4R		

CHARACTERISTICS

UBP AC 4 PIPES	124			134			224			234		
Speed	min.	med.	max.	min.	med.	max.	min.	med.	max.	min.	med.	max.
Airflow (m³/h)	539	795	974	628	902	1105	1128	1704	1907	1259	1885	2092
Water flow rate (2) (l/h)	959			1230			1641			2087		
Water flow rate (3) (l/h)	300			325			531			565		
Motor Power (kW)	0,3			0,3			0,6			0,6		
Power Supply (V F Hz)	230 1 50			230 1 50			230 1 50			230 1 50		
IMAX (A)	1,25						2,70					
Sound Pressure (4) (dB(A))	34	43	49	35	44	50	37	48	51	38	49	52
Static Pressure (Pa)	100			100			100			100		
Water pressure drop (2) (kPa)	23,9			27,0			17,7			24,5		
Water pressure drop (3) (kPa)	8,9			10,3			7,4			8,2		
Total cooling capacity (1) (kW)	4,13	5,04	5,58	5,37	6,47	7,15	7,31	9,02	9,54	9,39	11,53	12,14
Sensible cooling capacity (1) (kW)	2,85	3,68	4,20	3,65	4,63	5,28	5,34	7	7,53	6,67	8,69	9,30
Heating capacity (3) (kW)	4,99	6,23	6,97	5,50	6,76	7,56	9,19	11,60	12,34	9,88	12,41	13,14
Main coil	3R			3R			3R			3R		
UBP AC 4 PIPES	324			334			125			135		
Speed	min.	med.	max.	min.	med.	max.	min.	med.	máx.	min.	med.	máx.
Airflow (m³/h)	2028	2574	2847	2268	2856	3150	530	779	953	614	874	1071
Water flow rate (2) (l/h)	2321			2964			946			1207		
Water flow rate (3) (l/h)	761			810			479			517		
Motor Power (kW)	0,8			0,8			0,3			0,3		
Power Supply (V F Hz)	230 1 50			230 1 50			230 1 50			230 1 50		
IMAX (A)	3,90						1,25					
Sound Pressure (4) (dB(A))	46	51	53	47	52	54	34	43	49	35	44	50
Static Pressure (Pa)	100			100			100			100		
Water pressure drop (2) (kPa)	13,8			19,6			23,2			26,0		
Water pressure drop (3) (kPa)	7,1			8,0			7,3			8,3		
Total cooling capacity (1) (kW)	11,38	12,84	13,49	14,62	16,42	17,24	4,08	4,97	5,50	5,29	6,34	7,02
Sensible cooling capacity (1) (kW)	8,71	10,17	10,86	10,91	12,68	13,51	2,81	3,62	4,13	3,59	4,52	5,16
Heating capacity (3) (kW)	14,65	16,74	17,70	15,70	17,86	18,84	8	9,95	11,13	8,78	10,74	12,02
Main coil	3R			3R			3R			3R		

CHARACTERISTICS

UBP AC 4 PIPES	225			235			325			335		
Speed	min.	med.	max.	min.	med.	max.	min.	med.	max.	min.	med.	max.
Airflow (m³/h)	1105	1646	1819	1250	1833	2036	1976	2508	2736	2255	2788	2993
Water flow rate (2) (l/h)	1596			2061			2259			2873		
Water flow rate (3) (l/h)	848			914			1227			1305		
Motor Power (kW)	0,6			0,6			0,8			0,8		
Power Supply (V F Hz)	230 1 50			230 1 50			230 1 50			230 1 50		
IMAX (A)	2,70						3,90					
Sound Pressure (4) (dB(A))	37	48	51	38	49	52	46	51	53	47	52	54
Static Pressure (Pa)	100			100			100			100		
Water pressure drop (2) (kPa)	16,8			23,8			13,0			18,4		
Water pressure drop (3) (kPa)	6,2			7,0			5,8			6,4		
Total cooling capacity (1) (kW)	7,21	8,83	9,28	9,36	11,38	11,98	11,16	12,58	13,13	14,50	16,13	16,70
Sensible cooling capacity (1) (kW)	5,26	6,83	7,28	6,66	8,55	9,16	8,51	9,94	10,51	10,89	12,50	13,09
Heating capacity (3) (kW)	14,91	18,68	19,73	16,16	20,06	21,26	23,82	27,21	28,55	25,93	29,18	30,34
Main coil	3R			3R			3R			3R		

(1) Water temperature 7°C/12°C, dry bulb temperature 27°C, wet bulb temperature 19°C (47% relative humidity) according to EN1397:2015

(2) Water temperature 7°C/12°C, dry bulb temperature 27°C, wet bulb temperature 19°C (47% relative humidity)

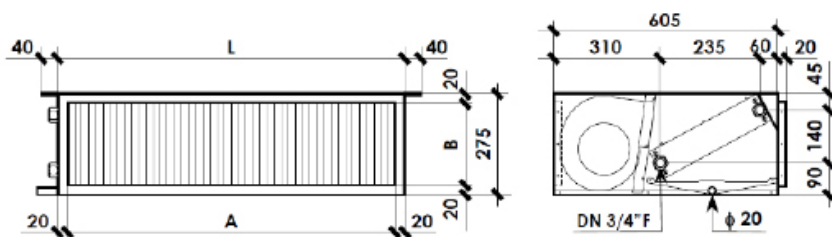
(3) Water temperature 45°C/40°C for 2-pipe units and water temperature 80°C/60°C for 4-pipe units, air temperature 20°C

(4) Sound pressure level measured at 3 m in free field conditions according to ISO 3741 - ISO 3742

DIMENSIONS UB2 PIPES

UBP AC H	122	132	142	222	232	242	322	332	342
L (mm)	800	800	800	1200	1200	1200	1600	1600	1600
A (mm)	760	760	760	1160	1160	1160	1560	1560	1560
B (mm)	235	235	235	235	235	235	235	235	235
Weight (kg)	37	38	40	52	54	57	68	70	73

UBP AC V	122	132	142	222	232	242	322	332	342
L (mm)	800	800	800	1200	1200	1200	1600	1600	1600
A (mm)	760	760	760	1160	1160	1160	1560	1560	1560
B (mm)	235	235	235	235	235	235	235	235	235
Weight (kg)	37	38	40	52	54	57	68	70	73



DIMENSIONS UBP 4 PIPES

UBP AC H	124	134	224	234	324	334	125	135	225	235	325	335
L (mm)	800	800	1200	1200	1600	1600	800	800	1200	1200	1600	1600
A (mm)	760	760	1160	1160	1560	1560	760	760	1160	1160	1560	1560
B (mm)	235	235	235	235	235	235	235	235	235	235	235	235
Weight (kg)	39	40	55	57	72	74	40	41	56	58	73	75

UBP AC V	124	134	224	234	324	334	125	135	225	235	325	335
L (mm)	800	800	1200	1200	1600	1600	800	800	1200	1200	1600	1600
A (mm)	760	760	1160	1160	1560	1560	760	760	1160	1160	1560	1560
B (mm)	235	235	235	235	235	235	235	235	235	235	235	235
Weight (kg)	39	40	55	57	72	74	40	41	56	58	73	75

