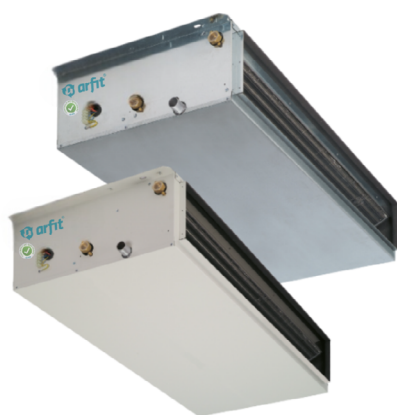


UBP EC



DESCRIPTION

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

Single-skin structure made of galvanized steel sheet with thermal and 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

High-efficiency EC electronically commutated motor with 2 protections (TP-thermal/Klixon + EP-electronic/SW), IP20, Class B, double insulation, inverter with dry alarm contact, 230 V (AC) -1Ph -50/60 Hz High-efficiency HEE motor with improved performance and consequent CO₂ reduction. Modulating control with 0-10 V (DC) signal. Airflow modulation from 0-100% allows performance adjustment at any moment according to actual room requirements, ensuring total comfort and reduced noise levels.

FAN

Ventilation section composed of 1, 2, or 3 double-inlet centrifugal fans with latest-generation ABS blades, directly coupled to the electric motor. Manufactured in accordance with international standards. Mounted on anti-vibration supports and statically and dynamically balanced. Large-diameter fans (high airflow and high static pressure) with low RPM speed (low noise level). Easy removal 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 EC 2 PIPES	122			132			142		
Speed	min.	med.	max.	min.	med.	max.	min.	med.	max.
Airflow (m ³ /h)	318	755	1198	350	835	1325	340	810	1283
Water flow rate (2) (l/h)	1089			1378			1610		
Water flow rate (3) (l/h)	1208			1498			1586		
Motor Power (kW)	0,2			0,2			0,2		
Power Supply (V F Hz)	230 1 50			230 1 50			230 1 50		
IMAX (A)	1,4			1,4			1,4		
Sound Pressure (4) (dB(A))	16	37	51	17	39	51	17	39	51
Static Pressure (Pa)	100			100			100		
Water pressure drop (2) (kPa)	30,8			33,8			33,1		
Water pressure drop (3) (kPa)	32,9			34,7			27,9		
Total cooling capacity (1) (kW)	3,15	5,02	6,33	3,97	6,34	8,01	4,65	7,42	9,36
Sensible cooling capacity (1) (kW)	2,02	3,60	4,86	2,49	4,45	6,02	2,80	5,01	6,76
Heating capacity (3) (kW)	3,11	5,32	7,02	3,85	6,60	8,71	4,08	7	9,22
Main coil	3R			3R			4R		



CHARACTERISTICS

UBP EC 2 PIPES	222			232			242		
Speed	min.	med.	max.	min.	med.	max.	min.	med.	max.
Airflow (m³/h)	527	1393	2253	575	1517	2455	547	1442	2333
Water flow rate (2) (l/h)	1824			2309			2705		
Water flow rate (3) (l/h)	2142			2653			2804		
Motor Power (kW)	0,4			0,4			0,4		
Power Supply (V F Hz)	230 1 50			230 1 50			230 1 50		
IMAX (A)	1,80			1,80			1,80		
Sound Pressure (4) (dB(A))	18	41	52	19	42	53	19	42	53
Static Pressure (Pa)	100			100			100		
Water pressure drop (2) (kPa)	21,9			29,9			23,9		
Water pressure drop (3) (kPa)	26,2			34,3			22,3		
Total cooling capacity (1) (kW)	4,91	8,32	10,61	6,23	10,52	13,42	7,29	12,33	15,72
Sensible cooling capacity (1) (kW)	3,22	6,20	8,48	3,99	7,65	10,48	4,46	8,54	11,70
Heating capacity (3) (kW)	5,09	9,33	12,45	6,32	11,54	15,42	6,68	12,20	16,30
Main coil	3R			3R			4R		

UBP EC 2 PIPES	322			332			342		
Speed	min.	med.	max.	min.	med.	max.	min.	med.	max.
Airflow (m³/h)	790	2138	3485	858	2320	3783	818	2215	3610
Water flow rate (2) (l/h)	2617			3320			3993		
Water flow rate (3) (l/h)	3162			3916			4180		
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)	2,50			2,50			2,50		
Sound Pressure (4) (dB(A))	15	41	54	16	43	55	16	43	55
Static Pressure (Pa)	100			100			100		
Water pressure drop (2) (kPa)	17,5			24,7			20,8		
Water pressure drop (3) (kPa)	22,2			29,8			19,8		
Total cooling capacity (1) (kW)	6,93	11,88	15,22	8,79	15,08	19,30	10,57	18,13	23,22
Sensible cooling capacity (1) (kW)	4,65	9,07	12,48	5,75	11,22	15,44	6,48	12,65	17,41
Heating capacity (3) (kW)	7,38	13,70	18,39	9,13	16,96	22,77	9,74	18,11	24,30
Main coil	3R			3R			4R		

CHARACTERISTICS

UBP EC 4 PIPES	124			134			224			234		
Speed	min.	med.	max.	min.	med.	max.	min.	med.	max.	min.	med.	max.
Airflow (m³/h)	305	728	1155	335	805	1275	512	1342	2175	547	1442	2333
Water flow rate (2) (l/h)	1066			1345			1780			2234		
Water flow rate (3) (l/h)	335			357			579			607		
Motor Power (kW)	0,2			0,2			0,4			0,4		
Power Supply (V F Hz)	230 1 50			230 1 50			230 1 50			230 1 50		
IMAX (A)	1,40						1,80					
Sound Pressure (4) (dB(A))	16	37	51	17	39	51	18	41	52	19	42	53
Static Pressure (Pa)	100			100			100			100		
Water pressure drop (2) (kPa)	29,5			32,2			20,9			28,0		
Water pressure drop (3) (kPa)	11,1			12,4			8,8			9,4		
Total cooling capacity (1) (kW)	3,07	4,91	6,20	3,87	6,20	7,82	4,81	8,11	10,35	6,02	10,18	12,99
Sensible cooling capacity (1) (kW)	1,96	3,51	4,74	2,41	4,33	5,85	3,16	6,03	8,27	3,83	7,34	10,05
Heating capacity (3) (kW)	3,60	6,02	7,80	3,82	6,42	8,31	5,79	10,27	13,46	6,05	10,78	14,12
Main coil	3R			3R			3R			3R		

UBP EC 4 PIPES	324			334			125			135		
Speed	min.	med.	max.	min.	med.	max.	min.	med.	max.	min.	med.	max.
Airflow (m³/h)	760	2060	3355	818	2215	3610	298	713	1130	328	783	1240
Water flow rate (2) (l/h)	2569			3226			1051			1321		
Water flow rate (3) (l/h)	848			886			535			569		
Motor Power (kW)	0,6			0,6			0,2			0,2		
Power Supply (V F Hz)	230 1 50			230 1 50			230 1 50			230 1 50		
IMAX (A)	2,50						1,40					
Sound Pressure (4) (dB(A))	15	41	54	16	43	55	16	37	51	17	39	51
Static Pressure (Pa)	100			100			100			100		
Water pressure drop (2) (kPa)	16,9			23,3			28,7			31,1		
Water pressure drop (3) (kPa)	8,9			9,6			9,1			10,1		
Total cooling capacity (1) (kW)	6,80	11,67	14,94	8,54	14,65	18,76	3,03	4,84	6,11	3,81	6,09	7,68
Sensible cooling capacity (1) (kW)	4,54	8,88	12,21	5,54	10,83	14,90	1,92	3,45	4,66	2,37	4,24	5,73
Heating capacity (3) (kW)	8,28	15	19,72	8,66	15,67	20,62	5,73	9,61	12,45	6,10	10,22	13,23
Main coil	3R			3R			3R			3R		



CHARACTERISTICS

UBP EC 4 PIPES	225			235			325			335		
Speed	min.	med.	max.	min.	med.	max.	min.	med.	max.	min.	med.	max.
Airflow (m³/h)	493	1302	2110	537	1418	2295	743	2008	3273	800	2163	3528
Water flow rate (2) (l/h)	1750			2220			2524			3181		
Water flow rate (3) (l/h)	936			989			1381			1454		
Motor Power (kW)	0,4			0,4			0,6			0,6		
Power Supply (V F Hz)	230 1 50			230 1 50			230 1 50			230 1 50		
IMAX (A)	1,80						2,50					
Sound Pressure (4) (dB(A))	18	41	52	19	42	53	15	41	54	16	43	55
Static Pressure (Pa)	100			100			100			100		
Water pressure drop (2) (kPa)	20,2			27,6			16,2			22,6		
Water pressure drop (3) (kPa)	7,5			8,2			7,3			8,0		
Total cooling capacity (1) (kW)	4,72	7,97	10,18	5,98	10,12	12,91	6,69	11,46	14,68	8,42	14,44	18,49
Sensible cooling capacity (1) (kW)	3,08	5,91	8,10	3,79	7,28	9,97	4,45	8,69	11,95	5,49	10,70	14,73
Heating capacity (3) (kW)	9,32	16,59	21,76	9,85	17,56	23	13,50	24,42	32,12	14,21	25,69	33,81
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 EN 1397:2015

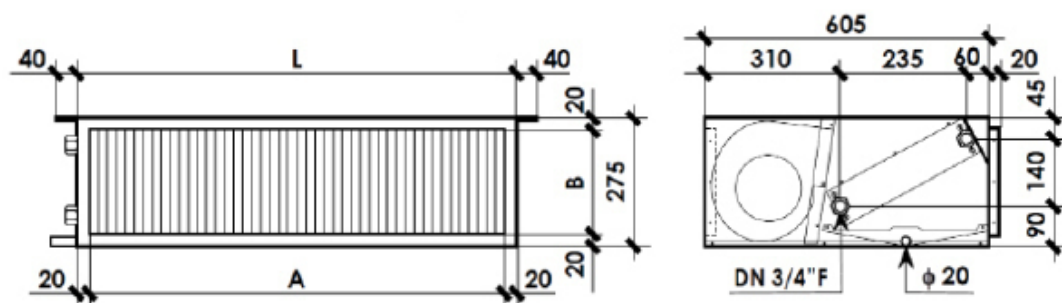
(2) Water temperature 7°C/12°C, dry bulb temperature 27°C, wet bulb temperature 19°C (47% relative humidity)

(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 UBP 2 PIPES

UBP EC 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)	38	39	41	53	55	58	69	71	74
UBP EC 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)	38	39	41	53	55	58	69	71	74



DIMENSIONS UBP 4 PIPES

UBP EC 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)	40	41	56	58	73	75	40	41	56	58	73	75
UBP EC 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)	40	41	56	58	73	75	40	41	56	58	73	75

