



UTA Average terminal units

230V monophas - 3 speed





Bearing structure (= Main casing) made of extremely thick steel-sheet resistant to rust, corrosion, chemical agents, solvents, aliphatics and alcohols. Available a very large range of versions, as the unit can be composed by different sections suitable to make any composition and configuration. Versions (= main casings) available:

- **D : Economic versions - concealed only, made of galvanized steel**
Single skin panel made of galvanized steel with wall/ceiling fixing holes on the bearing structure + Internal thermo-acoustic insulation (class M1), with external edges and screws (= concealed only !).
- **F : Versions "with cabinet", made of galvanized steel**
Single skin panel made of galvanized steel + Internal thermo-acoustic insulation (class M1).
- **H : Versions "with cabinet", made of pre-painted steel**
Single skin panel made of pre-painted steel white RAL 9002 colour + Internal thermo-acoustic insulation (class M1).
- **K : Versions "with cabinet", made of double skin panel**
Sandwich panel: internal galvanized steel + Glass fibre + external pre-painted steel white RAL 9002 colour.

Drain pan with drainpipe Ø 30 mm + heat insulation (class M1).

Coil with high efficiency (**Turbolenced Fins** with a high number of Reynolds) made of copper pipes and aluminium fins fixed by mechanical expansion. Standard connections on the right side; on request (no additional charge) connections on the left side, anyway can be easily reversed even on working site. 1 coil (available 2R , 3R and 6R) for a 2-pipe system. 2 coils (3R+2R) for a 4-pipe system.

Fan section including 1 or 2 centrifugal fans with double air inlet aluminium blades (forward curved fins) directly coupled to the 1 or 2 electric motor. Mounted on elastic and anti vibration supports. Fans statically and dynamically balanced. Extensive diameter fans (= high air flow and high static pressure) with low revolutions (= low noise level). Electric motor has 3 speeds, provided with heat protection (Klixon), running capacitor permanently switched on, IP 42, Class B, electric cables protected by double insulation. Available 2 different motor type:

- **6 poles (max 900 RPM): lower static pressure, but extremely silent**
 - **4 poles (max 1400 RPM): higher static pressure, but more noisy**
- Manufactured according with the international standards, 230V - 1Ph - 50Hz.

"Mammoth" type terminal board (min. 7 poles: 1 Ground + 3 speed + 1 Common + 2 for Bridge) installed outside the unit.

Clear unit outlets (air intake and air supply), without any grill/protection. **WARNING:** it is prohibited to make the unit operate if both unit outlets are not ducted or protected by grills or safety net (available as accessories on request: grills, panels, plenum, etc.).

The Air filter is an accessory: In this way, the client can choose an air filter section between the ones available as accessories (see PFA - PFO - PFT - PGF), or an air intake grill with air filter, or an air filter in the intake duct.



MOT

UTA-H1

PSA

PMA

PFA

PFO

PFT

CR2

CR11

SDI

STA

PSA

Section with hand-controlled air louver

PMA

Mixing hand-controlled section with fresh air louver

MOT

Motor for air louver

PFA

Ductable section with flat air filter EU3

PFO

Ductable section with pleated air filter EU5

PFT

Ductable section with pocket bags air filter EU7

PRA

Heating section with water coil

PRE

Heating section with electrical heaters

PGA

Anti-vibration junction

PSL

Noise level attenuator section

PD

Straight section (= empty section)

PCR

Section with spigots "ø"

PG1

Air supply section with No. 1 grill

ZOC

No. 2 feet (rolled sections)

BAC

Ausiliary drain pan

TP

Rain protection top

STA

No. 2 instalation supporting brackets



CR2

Electronic remote control

CR11

Multi-functions remote control

SDI

Interface card

P90

90° section

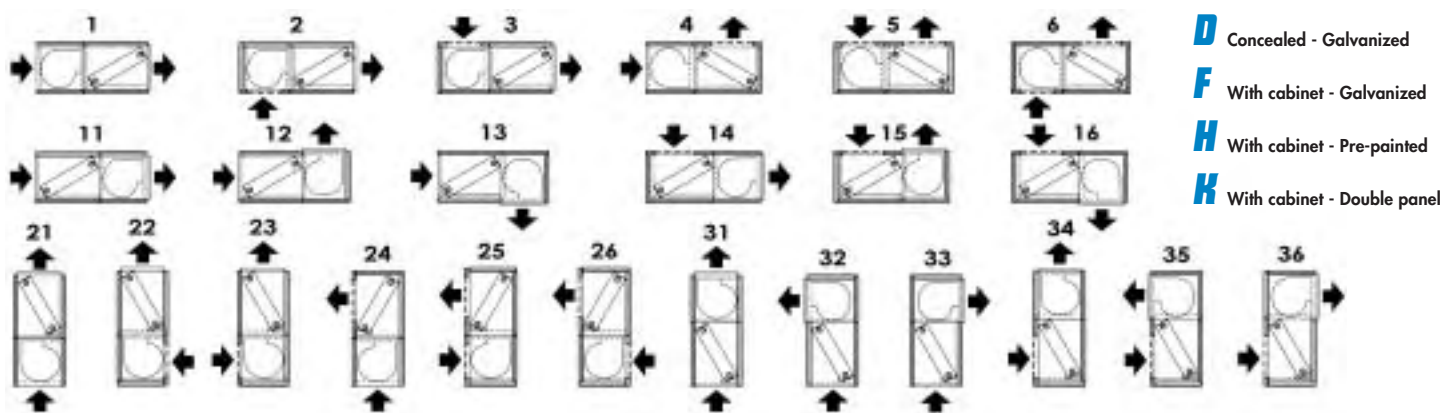
PGM

Air supply grill

PGF

Air intake grill + flat air filter EU3

! - DUCTABLE UNITS 230V - 3 SPEED ... NO LIMIT FLEXIBILITY!

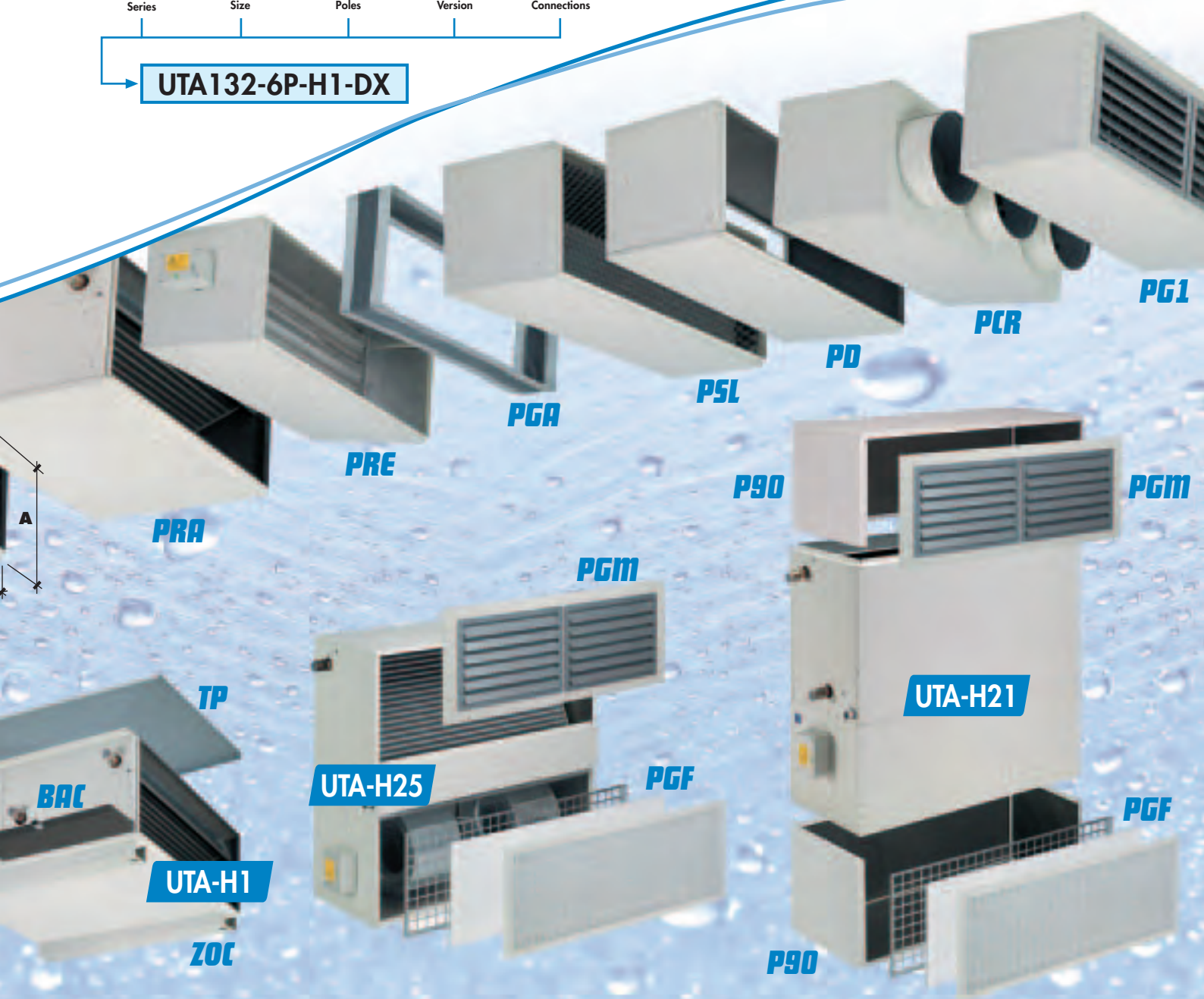


Identification = Series + Size + Poles + Version + Water connections side. Example:



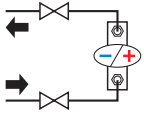
Series Size Poles Version Connections

UTA132-6P-H1-DX



AND MANY OTHER ACCESSORIES AND SOLUTIONS ...

TECHNICAL DATA



2 PIPE (1 coil)

3R

230 V - 1 Ph

3 Speed

MODEL		UTA 130	UTA 230	UTA 330	UTA 430	UTA 530	UTA 630	UTA 1230	UTA 1330	UTA 1430	(*) UTA 1540	(*) UTA 1640
Cooling capacity	Total (1) kW	6,9	11,4	14,2	17,0	20,8	29,3	25,1	29,7	34,0	52,3	66,3
	Sensible (1) kW	5,7	9,7	11,6	13,9	17,0	23,8	21,3	24,4	27,9	40,3	53,9
Heating capacity	(2) kW	16,6	28,4	33,9	40,8	49,4	69,2	62,5	71,5	81,7	117,0	158,4
Air flow (3)	m ³ /h	1.560	2.800	3.310	3.600	4.550	6.300	5.600	6.620	7.200	9.100	12.600
Water flow (4)	Cooling l/h	1.187	1.961	2.442	2.924	3.578	5.040	4.317	5.108	5.848	8.996	11.404
	Heating l/h	1.428	2.442	2.915	3.509	4.248	5.951	5.375	6.149	7.026	10.062	13.622
Water pressure drops (5)	Cooling kPa	26,1	27,0	28,5	26,8	29,0	31,4	27,6	26,6	28,1	30,2	33,4
	Heating kPa	29,5	32,7	31,7	30,1	31,9	34,2	33,4	30,1	31,6	29,5	37,2
Water connections	ø (")	3/4"	1"	1"	1"	1"-1/4	1"-1/2	1"-1/4	1"-1/2	1"-1/2	1"-1/2	1"-1/2
Drain pipe	ø (mm)	30	30	30	30	30	30	30	30	30	30	30
Dimensions	A mm	360	425	425	480	550	550	425	425	480	580	580
	Concealed versions (D)											
	B mm	560	660	760	760	1.160	1.360	1.160	1.360	1.360	1.660	1.660
	C mm	840	995	1.105	1.160	1.140	1.240	995	1.105	1.160	1.450	1.450
Dimensions	A mm	380	440	440	480	570	570	440	440	480	600	600
	Versions with cabinet (F-H-K)											
	B mm	520	620	720	720	1.120	1.320	1.120	1.320	1.320	1.620	1.620
	C mm	870	1.020	1.120	1.160	1.140	1.240	1.020	1.120	1.160	1.450	1.450
Net weight	versions D-F-H Kg	35,8	46,6	55,7	60,6	93,7	107,8	78,5	94,8	103,5	179,1	181,1
	version K Kg	45,1	59,5	71,3	77,3	118,9	138,7	99,7	121,4	131,4	224,4	226,4
Fans/Motors Number	No./No.	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	2/2	2/2
Accessories recommended		/					Scheda interfaccia "SDI" - "SDI" interface chart					

6P poles		Motor 230V-1Ph-50Hz ; Poles (nominal RPM in max speed = 900 g/min) ; 3 speed										
Max Current input (6)	W	1x 320	1x 500	1x 500	1x 550	1x 1100	1x 1100	2x 500	2x 500	2x 550	2x 1100	2x 1100
	A	1x 1,5	1x 2,3	1x 2,3	1x 2,5	1x 5,0	1x 5,0	2x 2,3	2x 2,3	2x 2,5	2x 5,0	2x 5,0
Sound levels (7)	Min-Med-Max dB(A)	35-40-46	36-42-48	37-43-49	39-44-50	43-47-53	45-50-55	39-45-51	40-46-52	42-47-53	46-50-56	48-53-58

4P poles		Motor 230V-1Ph-50Hz ; 4 Poles (nominal RPM in max speed = 1400 g/min) ; 3 speed										
Max Current input (6)	W	1x 270	1x 750	1x 750	1x 1000	\	\	2x 750	2x 750	2x 1000	\	\
	A	1x 1,3	1x 3,5	1x 3,5	1x 4,7	\	\	2x 3,5	2x 3,5	2x 4,7	\	\
Sound levels (7)	Min-Med-Max dB(A)	42-48-52	44-50-54	45-51-55	46-52-56	\	\	47-53-57	48-54-58	49-55-59	\	\

Male gas water coil connections

(*) UTA 1540 ; UTA 1640 : units with 4 Rows coil



(8) AIR FLOW VARIATION (coefficients defining the "Air flow / Static pressure diagrams")

Model	Poles	Speed	External static pressure (Pa)															
			0	25	50	75	100	125	150	175	200	225	250	300	350	400		
UTA 130	6P	Max	1,00	0,93	0,85	0,74	0,58	0,31	\	\	\	\	\	\	\	\		
		Med	0,68	0,66	0,61	0,55	0,44	0,24	\	\	\	\	\	\	\	\		
		Min	0,49	0,47	0,43	0,38	0,29	0,15	\	\	\	\	\	\	\	\		
	4P	Max	0,90	0,88	0,87	0,85	0,83	0,81	0,78	0,72	0,63	0,52	0,38	0,12	\	\		
		Med	0,69	0,67	0,65	0,63	0,59	0,55	0,51	0,46	0,38	0,32	0,24	0,05	\	\		
		Min	0,51	0,48	0,46	0,44	0,42	0,40	0,37	0,34	0,30	0,25	0,16	\	\	\		
UTA 230 UTA 1230	6P	Max	\	1,00	0,96	0,93	0,88	0,81	0,73	0,58	0,37	\	\	\	\	\		
		Med	\	0,71	0,70	0,67	0,62	0,55	0,46	0,29	0,09	\	\	\	\	\		
		Min	\	0,50	0,49	0,48	0,46	0,41	0,29	0,10	\	\	\	\	\	\		
	4P	Max	\	\	\	1,11	1,09	1,06	1,04	1,01	0,98	0,94	0,89	0,73	0,48	0,11		
		Med	\	\	\	0,79	0,77	0,75	0,71	0,68	0,64	0,61	0,55	0,41	0,21	\		
		Min	0,54	0,53	0,50	0,48	0,46	0,43	0,40	0,36	0,33	0,29	0,24	0,14	\	\		
UTA 330 UTA 1330	6P	Max	\	\	1,00	0,96	0,92	0,84	0,76	0,65	0,52	0,33	\	\	\	\		
		Med	\	\	0,74	0,73	0,71	0,66	0,60	0,49	0,29	0,09	\	\	\	\		
		Min	\	\	0,54	0,53	0,51	0,45	0,39	0,27	0,10	\	\	\	\	\		
	4P	Max	\	\	\	\	\	\	0,90	0,89	0,88	0,87	0,85	0,82	0,76	0,54	0,11	
		Med	\	\	\	\	\	\	0,65	0,63	0,60	0,58	0,54	0,51	0,35	0,11	\	
		Min	\	\	\	\	\	\	0,40	0,39	0,37	0,34	0,28	0,18	0,06	\	\	
UTA 430 UTA 1430	6P	Max	\	\	\	1,00	0,96	0,94	0,91	0,86	0,82	0,76	0,66	0,44	\	\		
		Med	\	\	\	0,75	0,73	0,71	0,68	0,63	0,56	0,31	0,06	\	\	\		
		Min	\	\	\	0,55	0,53	0,52	0,49	0,45	0,41	0,27	0,09	\	\	\		
	4P	Max	\	\	\	\	\	\	1,15	1,14	1,13	1,10	1,09	1,07	1,02	0,98	0,88	
		Med	\	\	\	\	\	\	0,88	0,87	0,85	0,84	0,82	0,79	0,78	0,73	0,67	0,58
		Min	\	\	\	\	\	\	0,67	0,66	0,64	0,63	0,61	0,59	0,54	0,49	0,42	0,34
UTA 530 UTA 1540	6P	Max	\	\	\	1,00	0,98	0,97	0,95	0,93	0,91	0,89	0,85	0,75	0,13	\		
		Med	\	\	\	0,86	0,85	0,84	0,83	0,81	0,77	0,73	0,66	0,47	0,09	\		
		Min	\	\	\	0,71	0,71	0,69	0,67	0,65	0,61	0,58	0,52	0,33	0,07	\		
	6P	Max	1,00	0,99	0,97	0,95	0,93	0,91	0,89	0,86	0,84	0,80	0,75	0,59	0,20	\		
		Med	\	\	\	0,77	0,76	0,74	0,72	0,70	0,68	0,65	0,61	0,56	0,38	0,11	\	
		Min	\	\	\	0,57	0,56	0,54	0,52	0,50	0,48	0,46	0,43	0,38	0,24	0,08	\	

UTA 530 ; UTA 630 ; UTA 1540 ; UTA 1640 : 4 POLES not available

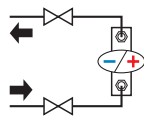


(9) COOLING/HEATING CAPACITY VARIATION (depending on air flow variation)

- Air flow	1,15	1,10	1,05	1,00	0,95	0,90	0,85	0,80	0,75	0,70	0,65	0,60	0,55	0,50	0,45	0,40	0,35	0,30	0,25	0,20	0,15
Total	1,09	1,06	1,03	1,00	0,97	0,94	0,91	0,88	0,84	0,81	0,78	0,74	0,70	0,66	0,62	0,58	0,54	0,49	0,44	0,39	0,33
Sensible	1,11	1,07	1,04	1,00	0,96	0,93	0,89	0,85	0,81	0,77	0,73	0,69	0,65	0,60	0,56	0,51	0,46	0,42	0,36	0,31	0,25
Heating capacity	1,10	1,07	1,03	1,00	0,97	0,93	0,89	0,86	0,82	0,78	0,74	0,70	0,66	0,62	0,58	0,53	0,48	0,44	0,38	0,33	0,27

Technical data refer to the following conditions: Standard unit - Atmospheric pressure 1013 mbar - Power supply 230V/1Ph/50Hz. (1) - (2) - (4) - (5) Nominal technical data refer to nominal air flow (3), that is the air flow to maximum speed and static pressure giving coefficient 1,00 on table (8). (1) Cooling: Environment air temperature: 27°C d.b., 19°C w.b. - Entering water temp. 7°C, leaving water temp. 12°C - Nominal air flow. For air flow different than nominal air flow: see (8) + (9), where the coefficients refer to water entering temperature 7°C and to nominal water flow (4). (2) Heating: Environment air temperature: 20°C - Entering water temperature 70°C, leaving water temperature 60°C - Nominal air flow. For air flow different than nominal air flow: see (8) + (9), where the coefficients refer to water entering temperature 70°C and to nominal water flow (4). (3) (4) (9) Cooling and Heating capacities: Data calculated based on measurements made in calorimetric room ref. UNI 4552, UNI 6552/A242 standards. (8) (9) Air flow and Static pressure: Measurements made with casing ref. AMCA 210-74 fig.11 standards and plenum + diaphragm ref. CNR-UNI 10023 standards. (6) Electrical data: Measurements with Wattmeter Jokogawa WT 110. (7) Sound Levels: Free field sound pressure, 2 m distance. Data calculated based on sound power measured in reverberant room ref. ISO 3741 - ISO 3742 standards.

TECHNICAL DATA



2 PIPE (1 coil)

6R

230 V - 1 Ph

3 Speed

MODEL		UTA 160	UTA 260	UTA 360	UTA 460	UTA 560	UTA 660	UTA 1260	UTA 1360	UTA 1460	UTA 1560	UTA 1660
Cooling capacity	Total (1) kW	10,6	17,9	21,9	26,3	32,1	44,4	40,0	46,0	52,6	65,8	88,4
	Sensible (1) kW	7,8	13,5	16,0	19,2	23,3	32,3	29,9	33,7	38,4	47,5	65,8
Heating capacity	(2) kW	22,5	39,3	45,8	55,1	66,5	92,5	86,7	96,5	110,1	135,0	189,4
Air flow (3)	m ³ /h	1.440	2.800	3.310	3.600	4.550	6.220	5.600	6.620	7.200	9.100	12.440
Water flow (4)	Cooling l/h	1.823	3.079	3.767	4.524	5.521	7.637	6.880	7.912	9.047	11.318	15.205
	Heating l/h	1.935	3.380	3.939	4.739	5.719	7.955	7.456	8.299	9.469	11.610	16.288
Water pressure drops (5)	Cooling kPa	30,3	32,1	33,6	29,8	31,6	32,0	31,4	29,5	32,2	34,6	37,0
	Heating kPa	26,6	30,2	28,7	25,5	26,4	27,1	28,8	25,3	27,5	28,4	33,1
Water connections	ø (*)	3/4"	1"	1"	1"	1"-1/4	1"-1/2	1"-1/4	1"-1/2	1"-1/2	1"-1/2	1"-1/2
	Drain pipe ø (mm)	30	30	30	30	30	30	30	30	30	30	30
Dimensions	A mm	360	425	425	480	550	550	425	425	480	580	580
	B mm	560	660	760	760	1.160	1.360	1.160	1.360	1.360	1.660	1.660
	C mm	840	995	1.105	1.160	1.140	1.240	995	1.105	1.160	1.450	1.450
Versions with cabinet (F-H-K)	A mm	380	440	440	480	570	570	440	440	480	600	600
	B mm	520	620	720	720	1.120	1.320	1.120	1.320	1.320	1.620	1.620
	C mm	870	1.020	1.120	1.160	1.140	1.240	1.020	1.120	1.160	1.450	1.450
Net weight	versions D-F-H Kg	41,8	54,1	64,7	69,6	108,7	125,8	93,5	112,8	121,5	201,6	203,6
	version K Kg	51,1	67,0	80,3	86,3	133,9	156,7	114,7	139,4	149,4	246,9	248,9
Fans/Motors Number	No./No.	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	2/2	2/2

Accessories recommended

/

"SDI" interface chart

6P poles

Motor 230V-1Ph-50Hz ; 6 Poli (nominal RPM in max speed = 900 g/min) ; 3 speed

Max Current input (6)	W	1x 320	1x 500	1x 500	1x 550	1x 1100	1x 1100	2x 500	2x 500	2x 550	2x 1100	2x 1100
	A	1x 1,5	1x 2,3	1x 2,3	1x 2,5	1x 5,0	1x 5,0	2x 2,3	2x 2,3	2x 2,5	2x 5,0	2x 5,0
Livelli sonori - Sound levels (7)	Min-Med-Max dB(A)	35-40-46	36-42-48	37-43-49	39-44-50	43-47-53	45-50-55	39-45-51	40-46-52	42-47-53	46-50-56	48-53-58

4P poles

Motor 230V-1Ph-50Hz ; 4 Poli (nominal RPM in max speed = 1400 g/min) ; 3 speed

Max Current input (6)	W	1x 270	1x 750	1x 750	1x 1000	\	\	2x 750	2x 750	2x 1000	\	\
	A	1x 1,3	1x 3,5	1x 3,5	1x 4,7	\	\	2x 3,5	2x 3,5	2x 4,7	\	\
Sound levels (7)	Min-Med-Max dB(A)	42-48-52	44-50-54	45-51-55	46-52-56	\	\	47-53-57	48-54-58	49-55-59	\	\

ø (*) Male gas water coil connections



(8) AIR FLOW VARIATION (coefficients defining the "Air flow / Static pressure diagrams")

Model	Poles	Speed	External static pressure (Pa)														
			0	25	50	75	100	125	150	175	200	225	250	300	350	400	
UTA 160	6P	Max	1,00	0,92	0,84	0,72	0,56	0,31	\	\	\	\	\	\	\	\	
		Med	0,73	0,69	0,64	0,58	0,45	0,24	\	\	\	\	\	\	\	\	
		Min	0,53	0,50	0,45	0,40	0,30	0,15	\	\	\	\	\	\	\	\	
	4P	Max	0,88	0,87	0,85	0,83	0,81	0,78	0,72	0,63	0,52	0,38	0,24	\	\	\	
		Med	0,67	0,65	0,63	0,59	0,55	0,51	0,46	0,38	0,32	0,24	0,14	\	\	\	
		Min	0,48	0,46	0,44	0,42	0,40	0,37	0,34	0,30	0,25	0,16	0,05	\	\	\	
UTA 260 UTA 1660	6P	Max	1,00	0,98	0,93	0,89	0,84	0,77	0,69	0,55	0,36	\	\	\	\	\	
		Med	\	0,71	0,69	0,65	0,60	0,54	0,45	0,26	0,08	\	\	\	\	\	
		Min	\	0,50	0,49	0,47	0,45	0,40	0,29	0,09	\	\	\	\	\	\	
	4P	Max	\	\	1,11	1,09	1,06	1,04	1,01	0,98	0,94	0,89	0,82	0,63	0,29	\	
		Med	0,83	0,81	0,79	0,77	0,75	0,71	0,68	0,64	0,61	0,55	0,50	0,32	0,07	\	
		Min	0,53	0,50	0,48	0,46	0,43	0,40	0,36	0,33	0,29	0,24	0,21	0,11	\	\	
UTA 360 UTA 1360	6P	Max	1,00	0,97	0,92	0,87	0,79	0,70	0,60	0,49	0,32	\	\	\	\	\	
		Med	\	0,74	0,72	0,69	0,64	0,58	0,45	0,26	0,08	\	\	\	\	\	
		Min	\	\	0,52	0,50	0,45	0,37	0,27	0,10	\	\	\	\	\	\	
	4P	Max	\	\	\	\	0,90	0,89	0,88	0,87	0,85	0,82	0,80	0,69	0,18	\	
		Med	\	\	\	\	0,65	0,63	0,60	0,58	0,54	0,51	0,45	0,17	0,06	\	
		Min	\	0,43	0,43	0,42	0,40	0,39	0,37	0,34	0,28	0,18	0,12	0,05	\	\	
UTA 460 UTA 1460	6P	Max	\	1,00	0,96	0,94	0,91	0,88	0,83	0,78	0,72	0,61	0,43	\	\	\	
		Med	\	0,78	0,76	0,73	0,72	0,69	0,66	0,61	0,53	0,21	0,05	\	\	\	
		Min	\	\	0,55	0,53	0,52	0,49	0,45	0,40	0,27	0,09	\	\	\	\	
	4P	Max	\	\	\	\	1,15	1,14	1,13	1,10	1,09	1,07	1,05	1,01	0,93	0,82	
		Med	\	\	\	\	0,88	0,87	0,85	0,84	0,82	0,79	0,78	0,76	0,70	0,65	0,53
		Min	\	\	0,67	0,66	0,64	0,63	0,61	0,59	0,57	0,54	0,52	0,46	0,39	0,29	
UTA 560 UTA 1560	6P	Max	\	\	1,00	0,99	0,97	0,95	0,93	0,91	0,89	0,86	0,82	0,71	0,12	\	
		Med	\	\	0,86	0,85	0,84	0,82	0,82	0,79	0,75	0,70	0,62	0,46	0,09	\	
		Min	\	\	0,73	0,71	0,70	0,68	0,66	0,63	0,61	0,57	0,51	0,33	0,07	\	
UTA 660 UTA 1660	6P	Max	1,00	0,98	0,96	0,94	0,92	0,90	0,86	0,84	0,82	0,78	0,72	0,55	0,19	\	
		Med	\	0,78	0,77	0,75	0,73	0,72	0,69	0,68	0,64	0,60	0,54	0,37	0,10	\	
		Min	\	\	0,56	0,55	0,53	0,52	0,50	0,48	0,46	0,42	0,37	0,24	0,08	\	

UTA 560 ; UTA 660 ; UTA 1560 ; UTA 1660 : 4 POLES not available



(9) COOLING/HEATING CAPACITY VARIATION (depending on air flow variation)

Air flow	1,15	1,10	1,05	1,00	0,95	0,90	0,85	0,80	0,75	0,70	0,65	0,60	0,55	0,50	0,45	0,40	0,35	0,30	0,25	0,20	0,15
Total	1,11	1,07	1,04	1,00	0,96	0,92	0,89	0,85	0,81	0,77	0,72	0,68	0,64	0,59	0,55	0,50	0,46	0,41	0,35	0,30	0,24
Sensible	1,13	1,08	1,04	1,00	0,96	0,91	0,87	0,83	0,78	0,74	0,69	0,65	0,60	0,55	0,51	0,46	0,41	0,36	0,31	0,25	0,20
Heating capacity	1,13	1,08	1,04	1,00	0,96	0,91	0,87	0,83	0,78	0,74	0,69	0,65	0,60	0,55	0,51	0,46	0,41	0,36	0,31	0,25	0,20

Technical data refer to the following conditions: Standard unit - Atmospheric pressure 1013 mbar - Power supply 230V/1Ph/50Hz. (1) - (2) - (4) - (5): Nominal technical data refer to nominal air flow (3), that is the air flow to maximum speed and static pressure giving coefficient 1,00 on table (8).

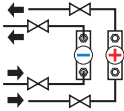
(1) Cooling: Environment air temperature: 27°C d.b., 19°C w.b. - Entering water temp. 7°C, leaving water temp. 12°C - Nominal air flow. For air flow different than nominal air flow: see (8) + (9), where the coefficients refer to water entering temperature 7°C and to nominal water flow (4).

(2) Heating: Environment air temperature: 20°C - Entering water temperature 60°C - Nominal air flow. For air flow different than nominal air flow: see (8) + (9), where the coefficients refer to water entering temperature 70°C, and to nominal water flow (4).

(3) (4) (5) Cooling and Heating capacities: Data calculated based on measurements made in calorimetric room ref. UNI 6552, UNI 6552/2425 standards. (6) (8) Air flow and Static pressure: Measurements made with casing ref. AMCA 210-74 fig. 11 standards and plenum + diaphragm ref. CNR-UNI 10023 standards.

(9) Electrical data: Measurements with Wattmeter Jokogawa WT 110. (7) Sound levels: Free field sound pressure, 2 m distance. Data calculated based on sound power measured in reverberant room ref. ISO 3741 - ISO 3742 standards.

TECHNICAL DATA



4 PIPE (2 coils)

Cooling coil : 3R
Heating coil : 2R

3R+2R

230 V - 1 Ph

3 Speed

MODEL		UTA 132	UTA 232	UTA 332	UTA 432	UTA 532	UTA 632	UTA 1232	UTA 1332	UTA 1432	(*) UTA 1542	(*) UTA 1642
Cooling capacity	Total (1) kW	6,5	11,4	14,2	17,0	20,8	29,0	25,1	29,7	34,0	52,3	65,6
	Sensible (1) kW	5,3	9,7	11,6	13,9	17,0	23,6	21,3	24,4	27,9	40,3	53,3
Heating capacity	(2) kW	12,2	21,6	26,3	31,7	38,3	53,5	47,9	55,7	63,7	79,2	102,6
Air flow (3)	m ³ /h	1.440	2.800	3.310	3.600	4.550	6.220	5.600	6.620	7.200	9.100	12.440
Water flow (4)	Cooling l/h	1.120	1.961	2.442	2.924	3.578	4.993	4.317	5.108	5.848	8.996	11.288
	Heating l/h	1.052	1.858	2.262	2.726	3.294	4.605	4.119	4.790	5.478	6.811	8.826
Water pressure drops (5)	Cooling kPa	23,3	27,8	28,5	26,8	29,0	30,8	27,6	26,6	28,1	30,2	32,7
	Heating kPa	31,4	41,0	38,3	37,5	39,4	39,7	40,3	35,1	36,8	38,7	45,8
Water connections	Cooling coil 3R ø (**)	3/4"	1"	1"	1"	1"-1/4	1"-1/2	1"-1/4	1"-1/2	1"-1/2	1"-1/2	1"-1/2
	Heating coil 2R ø (**)	3/4"	1"	1"	1"	1"-1/4	1"-1/4	1"-1/4	1"-1/4	1"-1/4	1"-1/4	1"-1/4
Drain pipe	ø (mm)	30	30	30	30	30	30	30	30	30	30	30
Dimensions Concealed versions (D)	A mm	360	425	425	480	550	550	425	425	480	580	580
	B mm	560	660	760	760	1.160	1.360	1.160	1.360	1.360	1.660	1.660
	C mm	840	995	1.105	1.160	1.140	1.240	995	1.105	1.160	1.450	1.450
Dimensions Versions with cabinet (F-H-K)	A mm	380	440	440	480	570	570	440	440	480	600	600
	B mm	520	620	720	720	1.120	1.320	1.120	1.320	1.320	1.620	1.620
	C mm	870	1.020	1.120	1.160	1.140	1.240	1.020	1.120	1.160	1.450	1.450
Net weight	versions D-F-H Kg	40,2	52,1	62,3	67,2	104,7	123,8	89,5	110,8	119,5	203,1	205,1
	version K Kg	49,5	65,0	77,9	83,9	129,9	154,7	110,7	137,4	147,4	248,4	250,4
Fans/Motors Number	No./No.	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	2/2	2/2

Accessories recommended / "SDI" interface chart

6P poles		Motor 230V-1Ph-50Hz ; 6 Poli (nominal RPM in max speed = 900 g/min) ; 3 speed											
Max Current input (6)	W	1x 320	1x 500	1x 500	1x 550	1x 1100	1x 1100	2x 500	2x 500	2x 550	2x 1100	2x 1100	
	A	1x 1,5	1x 2,3	1x 2,3	1x 2,5	1x 5,0	1x 5,0	2x 2,3	2x 2,3	2x 2,5	2x 5,0	2x 5,0	
Sound levels (7)	Min-Med-Max	dB(A)	35-40-46	36-42-48	37-43-49	39-44-50	43-47-53	45-50-55	39-45-51	40-46-52	42-47-53	46-50-56	48-53-58

4P poles		Motor 230V-1Ph-50Hz ; 4 Poli (nominal RPM in max speed = 1400 g/min) ; 3 speed											
Max Current input (6)	W	1x 270	1x 750	1x 750	1x 1000	\	\	2x 750	2x 750	2x 1000	\	\	
	A	1x 1,3	1x 3,5	1x 3,5	1x 4,7	\	\	2x 3,5	2x 3,5	2x 4,7	\	\	
Sound levels (7)	Min-Med-Max	dB(A)	42-48-52	44-50-54	45-51-55	46-52-56	\	\	47-53-57	48-54-58	49-55-59	\	\

ø (*) Male gas water coil connections (*) UTA 1542 ; UTA 1642 : units with 4 Rows coil + 2R



(8) AIR FLOW VARIATION (coefficients defining the "Air flow / Static pressure diagrams")

Model	Poles	Speed	External static pressure (Pa)															
			0	25	50	75	100	125	150	175	200	225	250	300	350	400		
UTA 132	6P	Max	1,00	0,92	0,84	0,72	0,56	0,31	\	\	\	\	\	\	\	\	\	
		Med	0,73	0,69	0,64	0,58	0,45	0,24	\	\	\	\	\	\	\	\	\	
		Min	0,53	0,50	0,45	0,40	0,30	0,15	\	\	\	\	\	\	\	\	\	
	4P	Max	0,88	0,87	0,85	0,83	0,81	0,78	0,72	0,63	0,52	0,38	0,24	\	\	\	\	
		Med	0,67	0,65	0,63	0,59	0,55	0,51	0,46	0,38	0,32	0,24	0,14	\	\	\	\	
		Min	0,48	0,46	0,44	0,42	0,40	0,37	0,34	0,30	0,25	0,16	0,05	\	\	\	\	
UTA 232	6P	Max	1,00	0,98	0,93	0,89	0,84	0,77	0,69	0,55	0,36	\	\	\	\	\	\	
		Med	0,71	0,69	0,65	0,60	0,54	0,45	0,26	0,08	\	\	\	\	\	\	\	
		Min	\	0,50	0,49	0,47	0,45	0,40	0,29	0,09	\	\	\	\	\	\	\	
	4P	Max	\	\	1,11	1,09	1,06	1,04	1,01	0,98	0,94	0,89	0,82	0,63	0,29	\	\	
		Med	0,83	0,81	0,79	0,77	0,75	0,71	0,68	0,64	0,61	0,55	0,50	0,32	0,07	\	\	
		Min	0,53	0,50	0,48	0,46	0,43	0,40	0,36	0,33	0,29	0,24	0,21	0,11	\	\	\	
UTA 332	6P	Max	1,00	0,97	0,92	0,87	0,79	0,70	0,60	0,49	0,32	\	\	\	\	\	\	
		Med	\	0,74	0,72	0,69	0,64	0,58	0,45	0,26	0,08	\	\	\	\	\	\	
		Min	\	\	0,52	0,50	0,45	0,37	0,27	0,10	\	\	\	\	\	\	\	
	4P	Max	\	\	\	\	0,90	0,89	0,88	0,87	0,85	0,82	0,80	0,69	0,18	\	\	
		Med	\	\	\	\	0,65	0,63	0,60	0,58	0,54	0,51	0,45	0,17	0,06	\	\	
		Min	\	0,43	0,43	0,42	0,40	0,39	0,37	0,34	0,28	0,18	0,12	0,05	\	\	\	
UTA 432	6P	Max	\	1,00	0,96	0,94	0,91	0,88	0,83	0,78	0,72	0,61	0,43	\	\	\	\	
		Med	\	0,78	0,76	0,73	0,72	0,69	0,66	0,61	0,53	0,21	0,05	\	\	\	\	
		Min	\	\	0,55	0,53	0,52	0,49	0,45	0,40	0,27	0,09	\	\	\	\	\	
	4P	Max	\	\	\	\	1,15	1,14	1,13	1,10	1,09	1,07	1,05	1,01	0,93	0,82	\	
		Med	\	\	\	\	0,88	0,87	0,85	0,84	0,82	0,79	0,78	0,76	0,70	0,65	0,53	\
		Min	\	\	0,67	0,66	0,64	0,63	0,61	0,59	0,57	0,54	0,52	0,46	0,39	0,29	\	
UTA 532	6P	Max	\	\	1,00	0,99	0,97	0,95	0,93	0,91	0,89	0,86	0,82	0,71	0,12	\	\	
		Med	\	\	0,86	0,85	0,84	0,82	0,82	0,79	0,75	0,70	0,62	0,46	0,09	\	\	
		Min	\	\	0,73	0,71	0,70	0,68	0,66	0,63	0,61	0,57	0,51	0,33	0,07	\	\	
UTA 632	6P	Max	1,00	0,98	0,96	0,94	0,92	0,90	0,86	0,84	0,82	0,78	0,72	0,55	0,19	\	\	
		Med	\	0,78	0,77	0,75	0,73	0,72	0,69	0,68	0,64	0,60	0,54	0,37	0,10	\	\	
		Min	\	\	0,56	0,55	0,53	0,52	0,50	0,48	0,46	0,42	0,37	0,24	0,08	\	\	

UTA 532 ; UTA 632 ; UTA 1542 ; UTA 1642 : 4 POLES not available



(9) COOLING/HEATING CAPACITY VARIATION (depending on air flow variation)

- Air flow		1,15	1,10	1,05	1,00	0,95	0,90	0,85	0,80	0,75	0,70	0,65	0,60	0,55	0,50	0,45	0,40	0,35	0,30	0,25	0,20	0,15
Cooling capacity	Total	1,09	1,06	1,03	1,00	0,97	0,94	0,91	0,88	0,84	0,81	0,78	0,74	0,70	0,66	0,62	0,58	0,54	0,49	0,44	0,39	0,33
	Sensible	1,11	1,07	1,04	1,00	0,96	0,93	0,89	0,85	0,81	0,77	0,73	0,69	0,65	0,60	0,56	0,51	0,46	0,42	0,36	0,31	0,25
	Heating capacity	1,09	1,06	1,03	1,00	0,97	0,94	0,91	0,87	0,84	0,81	0,77	0,74	0,70	0,66	0,62	0,58	0,53	0,49	0,44	0,38	0,32

Technical data refer to the following conditions: Standard unit - Atmospheric pressure 1013 mbar - Power supply 230V/1Ph/50Hz. (1) - (2) - (4) - (5): Nominal technical data refer to nominal air flow (3), that is the air flow to maximum speed and static pressure giving coefficient 1,00 on table (8). (1) Cooling: Environment air temperature: 27°C d.b., 19°C w.b. - Entering water temp. 7°C, leaving water temp. 12°C - Nominal air flow. For air flow different than nominal air flow: see (8) + (9), where the coefficients refer to water entering temperature 7°C and to nominal water flow (4). (2) Heating: Environment air temperature: 20°C - Entering water temperature 70°C, leaving water temperature 60°C - Nominal air flow. For air flow different than nominal air flow: see (8) + (9), where the coefficients refer to water entering temperature 70°C and to nominal water flow (4). (3) (4) (5) Cooling and Heating capacities: Data calculated based on measurements made in calorimetric room ref. UNI 6552 - UNI 6552/A342 standards. (6) (8) Air flow and static pressure: Measurements made with casing ref. AMCA 210-74 fig.11 standards and plenum + diaphragm ref. CNR-UNI 10023 standards. (9) Electrical data: Measurements with Wattmeter Adegowa WT 110. (7) Sound levels: Free field sound pressure, 2 m distance. Data calculated based on sound power measured in reverberant room ref. ISO 3741 - ISO 3742 standards.