



UTH Huge terminal units

400V three-phase - belt/pulley



DUCTABLE UNITS 400V THREE-PHASE: ...THE BIG T



Mech-Elec

Base and internal Bearing structure made of extremely thick steel-sheet or made in welded pipe (it's depending on model/version). Suitable for floor external installation.

Main casing made of extremely thick steel-sheet resistant to rust, corrosion, chemical agents, solvents, aliphatics and alcohols. Made with self-supporting and removable panels ; assembled with self-threading screws for fast and easy checking/maintenance.

Available versions (= main casings):

- **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 provided with 1" male gas drainpipe + 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 coil can be easily reversed even on working site.

Fan section including 1 centrifugal fan with double air inlet aluminium blades (forward curved fins). Fan statically and dynamically balanced. Large diameter fans (= high air flow and high static pressure) with low revolutions (= low noise level). Anti-vibrators, attenuating any vibration transmission, have been placed between the bearing structure and the fans.

Asynchronous three-phase electric motor of 1 speed, IP 55, Class F, electric cables protected by double insulation. Manufactured according to the international standards, 400V - 3Ph - 50Hz. Motor/fan transmission with fixed pitch pulleys and V-belt (on request variable pitch pulleys).

Belt tightening is obtained by the adjustment of the motor holder slide.

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 by 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 CFA, CFO, CFT, etc.), or an air intake grill with air filter, or an air filter in the intake duct.

Available a **wide range of versions**, the unit can be composed by different sections suitable to get any composition and configuration.

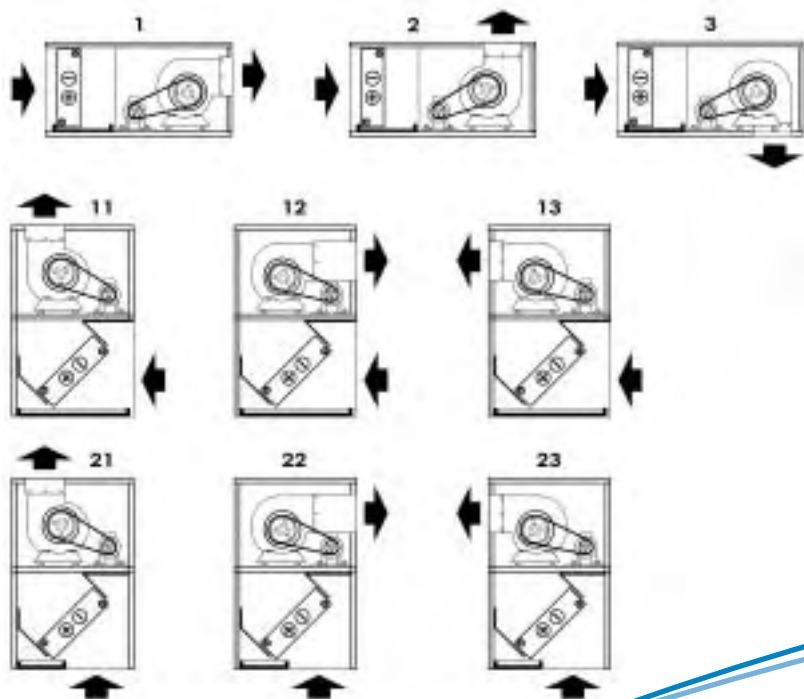


EXTRACTABLE COILS

- 1 coil for a 2-pipe system (available in 2R, 4R and 6R)
- 2 coils for 4-pipe system (available in 4R+2R and 6R+2R)

For 4-pipe system, instead of the unit already provided with 2 coils, the additional CRA2R heating section can be installed, provided with 2R water coil (the CRA2R section is an accessory).

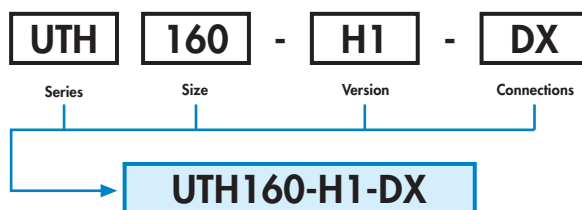
HERMO-VENTILATING (WITH BELT/PULLEY TRANSMISSION)



IDENTIFICATION

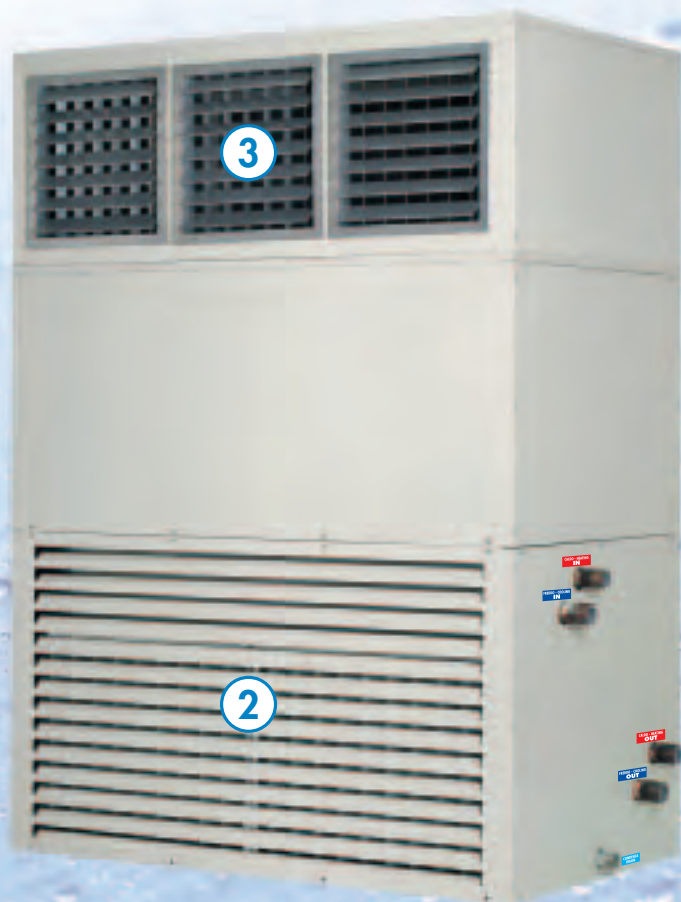
Series + Size + Version + Water connections side.

Example:



Available main casings:

- F** With cabinet - Galvanized **H** With cabinet - Pre-painted
- K** With cabinet - Double panel



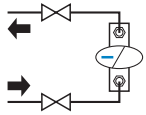
- ① Pleated air filter with EU5 filtering level (EUROVENT 4/5)
- ② Single bank fixed air intake grill (with rain protection characteristics)
- ③ Outlet plenum with 1 double bank adjustable grill

AVAILABLE ALSO:

- Section with EU3 flat air filter / Section with EU5 pleated air filter / Section with EU7 pocket bags air filter
- Re-heating section with electrical heaters / Section with energy module
- Mixing chamber with 1 damper and 1 grill / Mixing chamber with 2 dampers
- Mixing chamber with 1 damper and open side
- Straight inlet plenum with 1 side damper

AND MANY OTHER ACCESSORIES AND SOLUTIONS ...

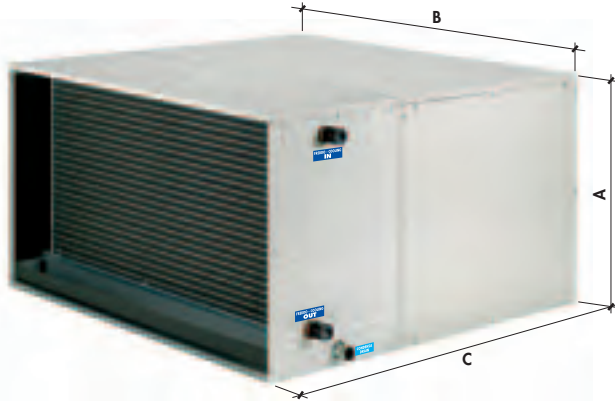
SIMPLE TO CONTROL SIMILAR TO A FAN-COILS ...



2 PIPE (1 coil)

4R

400V three-phase - belt/pulley Transmission



MODEL		(*) UTH 130	(*) UTH 230	UTH 340	UTH 440	UTH 540	UTH 640	UTH 740	UTH 840	UTH 940	UTH 1040	UTH 1140	UTH 1240
Cooling capacity	Total (1) kW	27,0	33,0	45,1	50,6	56,0	60,4	64,3	68,0	73,0	84,0	95,1	110,0
	Sensible (1) kW	21,2	26,6	33,6	38,3	43,0	46,0	49,1	52,1	56,4	63,0	72,2	85,1
Heating capacity	(2) kW	57,0	72,1	91,1	104,5	117,9	126,1	134,9	142,9	154,9	171,4	197,1	233,2
Nominal Air flow	(3) m ³ /h	5.800	7.000	7.600	8.800	10.000	11.000	11.600	12.000	13.000	15.100	17.000	19.500
Nominal Static pressure	(4) Pa	180	290	130	170	220	200	320	340	460	270	310	360
Water flow (5)	Cooling l/h	4.644	5.676	7.757	8.703	9.632	10.389	11.060	11.696	12.556	14.448	16.357	18.920
	Heating l/h	4.902	6.201	7.835	8.987	10.139	10.845	11.601	12.289	13.321	14.740	16.951	20.055
Water pressure drops (6)	Cooling kPa	20,2	22,5	21,6	23,5	25,1	27,3	28,0	28,8	29,8	33,0	35,1	37,8
	Heating kPa	17,6	20,9	17,2	19,5	21,7	23,2	24,0	24,8	26,2	26,8	29,4	33,1
Sound level (7)	dB(A)	52	55	54	56	58	55	57	59	61	59	62	65
Fans/Motors Number	No./No.	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
Speed number	No.	1	1	1	1	1	1	1	1	1	1	1	1
Electrical motor	kW	0,75	1,5	1,5	2,2	3	2,2	3	3	4	3	4	5,5
Current input MAX	(8) A	1,6	3,2	3,2	4,7	6,3	4,7	6,3	6,3	8,4	6,3	8,4	11,3
Power supply		400 V - 3 Ph - 50 Hz											
Dimensions (Horizontal unit)	A mm	750	750	900	900	900	1.000	1.000	1.000	1.000	1.150	1.150	1.150
	B mm	1.350	1.350	1.620	1.620	1.620	1.720	1.720	1.720	1.720	2.180	2.180	2.180
	C mm	1.300	1.300	1.400	1.400	1.400	1.400	1.400	1.600	1.600	1.700	1.700	1.700
Dimensions (Vertical unit)	D mm	1.370	1.370	1.600	1.600	1.600	1.700	1.700	1.850	1.850	2.000	2.000	2.000
	E mm	800	800	900	900	900	900	900	1.100	1.100	1.100	1.100	1.100
	F mm	1.350	1.350	1.620	1.620	1.620	1.720	1.720	1.720	1.720	2.180	2.180	2.180
Water connections	ø (*)	1"-1/2	1"-1/2	1"-1/2	1"-1/2	1"-1/2	1"-1/2	1"-1/2	1"-1/2	1"-1/2	2"	2"	2"
Male gas drain pipe	ø	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"
(9) STANDARD UNIT: AIR FLOW / STATIC PRESSURE DIAGRAM = Air flow (m ³ /h) variation depending on static pressure (Pa)	Pa	100	190	60	95	130	65	160	195	310	155	195	160
	m ³ /h	1,06	1,06	1,04	1,04	1,04	1,06	1,06	1,06	1,06	1,06	1,06	1,06
	Pa	145	245	100	135	180	135	245	270	390	215	255	265
	m ³ /h	1,03	1,03	1,02	1,02	1,02	1,03	1,03	1,03	1,03	1,03	1,03	1,03
	Pa	180	290	130	170	220	200	320	340	460	270	310	360
	m ³ /h	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
	Pa	200	320	195	255	330	260	365	385	500	300	340	385
	m ³ /h	0,85	0,85	0,80	0,80	0,80	0,85	0,85	0,85	0,85	0,80	0,80	0,80
	Pa	210	340	250	330	430	310	405	420	535	320	360	400
	m ³ /h	0,70	0,70	0,60	0,60	0,60	0,70	0,70	0,70	0,70	0,60	0,60	0,60
(10) VARIABLE PULLEY (ACCESSORY): WORKING RANGE (air flow / static pressure) - Minimum values referring to totally open pulley - Maximum values referring to totally closed pulley	MAX Pa	180	290	130	170	220	200	320	340	460	270	310	360
	m ³ /h	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
	Pa	160	255	115	150	195	175	290	305	420	245	285	330
	m ³ /h	0,90	0,90	0,90	0,90	0,90	0,90	0,90	0,90	0,90	0,90	0,90	0,90
	Pa	140	220	100	130	170	150	260	270	380	220	260	300
	m ³ /h	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80
	Pa	120	185	85	110	145	125	230	235	340	195	235	270
	m ³ /h	0,70	0,70	0,70	0,70	0,70	0,70	0,70	0,70	0,70	0,70	0,70	0,70
	MIN Pa	100	150	70	90	120	100	200	200	270	170	170	170
	m ³ /h	0,60	0,60	0,60	0,60	0,60	0,60	0,60	0,60	0,60	0,60	0,60	0,60

ø (*) Male gas water coil connections

(*) UTH 130 ; UTH 230 : units with 3 Rows coil



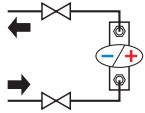
(11) COOLING/HEATING CAPACITY VARIATION (depending on air flow variation)

Air flow	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
Total	1,06	1,03	1,00	0,97	0,93	0,90	0,86	0,83	0,79	0,75	0,71	0,67	0,63	0,59	0,55
Cooling capacity	1,08	1,04	1,00	0,96	0,92	0,88	0,84	0,80	0,76	0,71	0,67	0,63	0,58	0,54	0,49
Heating capacity	1,08	1,04	1,00	0,96	0,92	0,88	0,84	0,80	0,76	0,72	0,68	0,63	0,59	0,55	0,50

Technical data referring to the following conditions: Standard unit - Atmospheric pressure 1013 mbar - Power supply 400V/3Ph/50Hz. (1) - (2) - (5) - (6): Nominal technical data referring to nominal air flow (3), i.e. the air flow when the static pressure is (4). (1) Cooling: Room air temperature: 27°C d.b., 19°C w.b., - Entering water temp. 7°C, leaving water temp. 12°C - Nominal air flow (3). For air flow different from nominal value: see (9) + (11) or (10) + (11), where the coefficients refer to water entering temperature 7°C and to nominal water flow (5). (2) Heating: Room air temperature: 20°C - Entering water temperature 70°C, leaving water temperature 60°C - Nominal air flow (3). For air flow different from nominal value: see (9) + (11) or (10) + (11), where the coefficients refer to water entering temperature 70°C, and to nominal water flow (5). (1) (2) (11) Cooling and Heating capacities: Data calculated based on measurements in calorimetric room ref. UNI 6532 - UNI 6532/AS242 standards. (3) (4) (9) (10) Air flow and Static pressure: Measurements with casing ref. AMCA 210-74 fig 11 standards and plenum + diaphragm ref. CNR-UNI 10023 standards. (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. (8) Electrical data: Measurements with Walmeter Jokogawa WT 110.

Available UTH models with 2R coil also

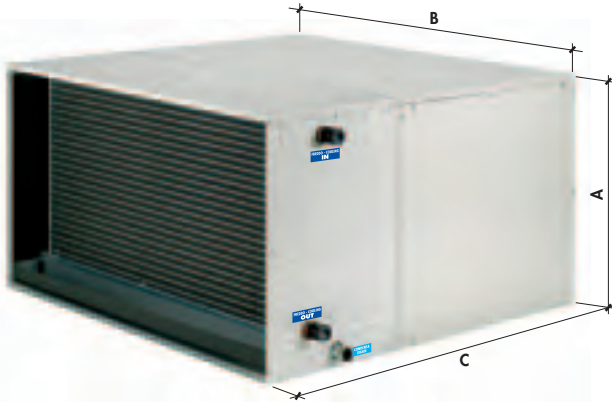
TECHNICAL DATA



2 PIPE (1 coil)

6R

400V three-phase - belt/pulley Transmission



MODEL		UTH 160	UTH 260	UTH 360	UTH 460	UTH 560	UTH 660	UTH 760	UTH 860	UTH 960	UTH 1060	UTH 1160	UTH 1260	
Cooling capacity	Total (1) kW	40,0	50,2	55,1	62,5	70,0	75,0	80,2	85,0	92,2	105,1	120,5	141,8	
	Sensible (1) kW	28,4	36,5	38,8	44,6	50,5	53,8	57,7	61,3	66,9	73,9	85,6	102,1	
Heating capacity	(2) kW	74,6	96,7	103,5	119,7	135,7	144,4	154,9	165,7	180,6	196,1	228,1	273,4	
Nominal Air flow	(3) m ³ /h	5.800	7.000	7.600	8.800	10.000	11.000	11.600	12.000	13.000	15.100	17.000	19.500	
Nominal Static pressure	(4) Pa	160	270	120	160	200	180	300	310	430	260	300	340	
Water flow (5)	Cooling l/h	6.880	8.634	9.477	10.750	12.040	12.900	13.794	14.620	15.858	18.077	20.726	24.390	
	Heating l/h	6.416	8.316	8.901	10.294	11.670	12.418	13.321	14.250	15.532	16.865	19.617	23.512	
Water pressure drops (6)	Cooling kPa	26,2	29,7	28,3	34,0	36,7	38,3	39,6	40,0	41,1	41,5	43,0	45,3	
	Heating kPa	17,8	21,5	19,5	24,3	26,9	27,7	28,8	29,6	30,8	28,2	30,0	32,8	
Sound level (7)	dB(A)	52	55	54	56	58	55	57	59	61	59	62	65	
Fans/Motors Number	No./No.	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	
Speed number	No.	1	1	1	1	1	1	1	1	1	1	1	1	
Electrical motor	kW	0,75	1,5	1,5	2,2	3	2,2	3	3	4	3	4	5,5	
Current input MAX (8)	A	1,6	3,2	3,2	4,7	6,3	4,7	6,3	6,3	8,4	6,3	8,4	11,3	
Power supply		400 V - 3 Ph - 50 Hz												
Dimensions (Horizontal unit)	A mm	750	750	900	900	900	1.000	1.000	1.000	1.000	1.150	1.150	1.150	
	B mm	1.350	1.350	1.620	1.620	1.620	1.720	1.720	1.720	1.720	2.180	2.180	2.180	
	C mm	1.300	1.300	1.400	1.400	1.400	1.400	1.400	1.600	1.600	1.700	1.700	1.700	
Dimensions (Vertical unit)	D mm	1.370	1.370	1.600	1.600	1.600	1.700	1.700	1.850	1.850	2.000	2.000	2.000	
	E mm	800	800	900	900	900	900	900	1.100	1.100	1.100	1.100	1.100	
	F mm	1.350	1.350	1.620	1.620	1.620	1.720	1.720	1.720	1.720	2.180	2.180	2.180	
Water connections	ø (*)	1"-1/2"	1"-1/2"	1"-1/2"	1"-1/2"	1"-1/2"	1"-1/2"	1"-1/2"	1"-1/2"	1"-1/2"	2"	2"	2"	
Male gas drain pipe	ø	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	
(9)	<p>STANDARD UNIT: AIR FLOW / STATIC PRESSURE DIAGRAM = Air flow (m³/h) variation depending on static pressure (Pa)</p>	Pa	70	150	30	60	90	30	120	155	270	130	160	120
		m ³ /h	1,06	1,06	1,04	1,04	1,04	1,06	1,06	1,06	1,06	1,06	1,06	1,06
		Pa	120	215	80	115	150	110	215	235	355	200	235	235
		m ³ /h	1,03	1,03	1,02	1,02	1,02	1,03	1,03	1,03	1,03	1,03	1,03	1,03
		Pa	160	270	120	160	200	180	300	310	430	260	300	340
		m ³ /h	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
		Pa	180	300	185	245	310	240	345	355	470	290	330	365
		m ³ /h	0,85	0,85	0,80	0,80	0,80	0,85	0,85	0,85	0,85	0,80	0,80	0,80
		Pa	190	320	240	320	410	290	385	390	505	310	350	380
		m ³ /h	0,70	0,70	0,60	0,60	0,60	0,70	0,70	0,70	0,70	0,60	0,60	0,60
(10)	<p>VARIABLE PULLEY (ACCESSORY): WORKING RANGE (air flow / static pressure) - Minimum values referring to totally open pulley - Maximum values referring to totally closed pulley</p>	MAX Pa	160	270	120	160	200	180	300	310	430	260	300	340
		m ³ /h	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
		Pa	140	235	105	140	175	155	270	275	390	235	275	310
		m ³ /h	0,90	0,90	0,90	0,90	0,90	0,90	0,90	0,90	0,90	0,90	0,90	0,90
		Pa	120	200	90	120	150	130	240	240	350	210	250	280
		m ³ /h	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80
		Pa	100	165	75	100	125	105	210	205	310	185	225	250
		m ³ /h	0,70	0,70	0,70	0,70	0,70	0,70	0,70	0,70	0,70	0,70	0,70	0,70
		MIN Pa	80	130	60	80	100	80	180	170	260	160	160	160
		m ³ /h	0,60	0,60	0,60	0,60	0,60	0,60	0,60	0,60	0,60	0,60	0,60	0,60

ø (*) Male gas water coil connections



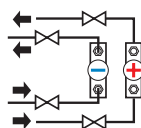
(11) COOLING/HEATING CAPACITY VARIATION (depending on air flow variation)

Air flow	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
Total	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
Sensible	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
Heating capacity	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

Technical data referring to the following conditions: Standard unit - Atmospheric pressure 1013 mbar - Power supply 400V/3Ph/50Hz. (1) - (2) - (5) - (6) - Nominal technical data referring to nominal air flow (3), i.e. the air flow when the static pressure is (4). (1) Cooling: Room air temperature: 27°C d.b., 19°C w.b. - Entering water temp. 7°C, leaving water temp. 12°C - Nominal air flow (3). For air flow different from nominal values: see (9) + (11) or (10) + (11), where the coefficients refer to water entering temperature 7°C and to nominal water flow (5). (2) Heating: Room air temperature: 20°C - Entering water temperature 70°C, leaving water temperature 60°C - Nominal air flow (3). For air flow different from nominal values: see (9) + (11) or (10) + (11), where the coefficients refer to water entering temperature 70°C, and to nominal water flow (5). (1) (2) (11) Cooling and Heating capacities: Data calculated based on measurements in calorimetric room ref. UNI 6552, UNI 6552/A242 standards. (3) (4) (9) (10) Air Flow and Static pressure: Measurements with casing ref. AMCA 210-74 fig. 11 standards and plenum + diaphragm ref. CNR-UNI 10023 standards. (7) Sound levels: Free field sound pressure; 2m distance. Data calculated based on sound power - measured in reverberant room ref. ISO 3741 - ISO 3742 standards. (8) Electrical data: Measurements with Wattmeter Jokogawa WF 110.

Available UTH models with 6R+2R coil also

TECHNICAL DATA

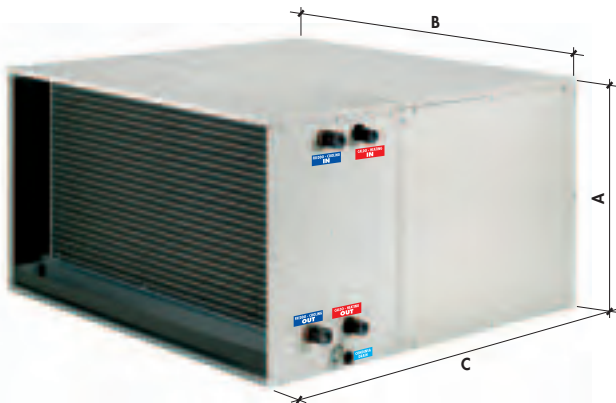


4 PIPE (2 coils)

Cooling coil : 4R
Heating coil : 2R

4R+2R

400V three-phase - belt/pulley Transmission



MODEL		(*)UTH 132	(*)UTH 232	UTH 342	UTH 442	UTH 542	UTH 642	UTH 742	UTH 842	UTH 942	UTH 1042	UTH 1142	UTH 1242
Cooling capacity	Total (1) kW	27,0	33,0	45,1	50,6	56,0	60,4	64,3	68,0	73,0	84,0	95,1	110,0
	Sensible (1) kW	21,2	26,6	33,6	38,3	43,0	46,0	49,1	52,1	56,4	63,0	72,2	85,1
Heating capacity (2) kW		44,8	56,0	63,7	71,9	79,9	85,9	91,5	96,7	104,7	119,3	135,2	157,8
Nominal Air flow (3) m ³ /h		5.800	7.000	7.600	8.800	10.000	11.000	11.600	12.000	13.000	15.100	17.000	19.500
Nominal Static pressure (4) Pa		160	270	120	160	200	180	300	310	430	260	300	340
Water flow (5)	Cooling l/h	4.644	5.676	7.757	8.703	9.632	10.389	11.060	11.696	12.556	14.448	16.357	18.920
	Heating l/h	3.853	4.816	5.478	6.183	6.871	7.387	7.869	8.316	9.004	10.260	11.627	13.571
Water pressure drops (6)	Cooling kPa	20,2	22,5	21,6	23,5	25,1	27,3	28,0	28,8	29,8	33,0	35,1	37,8
	Heating kPa	22,4	25,1	23,5	27,2	30,0	31,2	32,8	34,8	37,1	38,6	40,8	44,0
Sound level (7) dB(A)		52	55	54	56	58	55	57	59	61	59	62	65
Fans/Motors Number		No./No.	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
Speed number		No.	1	1	1	1	1	1	1	1	1	1	1
Electrical motor		kW	0,75	1,5	1,5	2,2	3	2,2	3	4	3	4	5,5
Current input MAX (8)		A	1,6	3,2	3,2	4,7	6,3	4,7	6,3	8,4	6,3	8,4	11,3
Power supply		400 V - 3 Ph - 50 Hz											
Dimensions (Horizontal unit)	A mm	750	750	900	900	900	1.000	1.000	1.000	1.000	1.150	1.150	1.150
	B mm	1.350	1.350	1.620	1.620	1.620	1.720	1.720	1.720	1.720	2.180	2.180	2.180
	C mm	1.300	1.300	1.400	1.400	1.400	1.400	1.400	1.600	1.600	1.700	1.700	1.700
Dimensions (Vertical unit)	D mm	1.370	1.370	1.600	1.600	1.600	1.700	1.700	1.850	1.850	2.000	2.000	2.000
	E mm	800	800	900	900	900	900	900	1.100	1.100	1.100	1.100	1.100
	F mm	1.350	1.350	1.620	1.620	1.620	1.720	1.720	1.720	1.720	2.180	2.180	2.180
Water connections	Cooling coil 4R ø (*)	1"-1/2	1"-1/2	1"-1/2	1"-1/2	1"-1/2	1"-1/2	1"-1/2	1"-1/2	1"-1/2	2"	2"	2"
	Heating coil 2R ø (*)	1"-1/4	1"-1/4	1"-1/4	1"-1/4	1"-1/4	1"-1/4	1"-1/4	1"-1/4	1"-1/4	1"-1/2	1"-1/2	1"-1/2
Male gas drain pipe ø		1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"
(9) STANDARD UNIT: AIR FLOW / STATIC PRESSURE DIAGRAM = Air flow (m ³ /h) variation depending on static pressure (Pa)	Pa	70	150	30	60	90	30	120	155	270	130	160	120
	m ³ /h	1,06	1,06	1,04	1,04	1,04	1,06	1,06	1,06	1,06	1,06	1,06	1,06
	Pa	120	215	80	115	150	110	215	235	355	200	235	235
	m ³ /h	1,03	1,03	1,02	1,02	1,02	1,03	1,03	1,03	1,03	1,03	1,03	1,03
	Pa	160	270	120	160	200	180	300	310	430	260	300	340
	m ³ /h	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
	Pa	180	300	185	245	310	240	345	355	470	290	330	365
	m ³ /h	0,85	0,85	0,80	0,80	0,80	0,85	0,85	0,85	0,85	0,80	0,80	0,80
	Pa	190	320	240	320	410	290	385	390	505	310	350	380
	m ³ /h	0,70	0,70	0,60	0,60	0,60	0,70	0,70	0,70	0,70	0,60	0,60	0,60
(10) VARIABLE PULLEY (ACCESSORY): WORKING RANGE (air flow / static pressure) - Minimum values referring to totally open pulley - Maximum values referring to totally closed pulley	MAX Pa	160	270	120	160	200	180	300	310	430	260	300	340
	m ³ /h	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
	Pa	140	235	105	140	175	155	270	275	390	235	275	310
	m ³ /h	0,90	0,90	0,90	0,90	0,90	0,90	0,90	0,90	0,90	0,90	0,90	0,90
	Pa	120	200	90	120	150	130	240	240	350	210	250	280
	m ³ /h	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80
	Pa	100	165	75	100	125	105	210	205	310	185	225	250
	m ³ /h	0,70	0,70	0,70	0,70	0,70	0,70	0,70	0,70	0,70	0,70	0,70	0,70
	MIN Pa	80	130	60	80	100	80	180	170	160	160	160	160
	m ³ /h	0,60	0,60	0,60	0,60	0,60	0,60	0,60	0,60	0,60	0,60	0,60	0,60

ø (*)

Male gas water coil connections

(*) UTH 132 ; UTH 232 : units with 3 Rows coil + 2R



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

Air flow		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
Cooling capacity	Total	1,06	1,03	1,00	0,97	0,93	0,90	0,86	0,83	0,79	0,75	0,71	0,67	0,63	0,59	0,55
	Sensible	1,08	1,04	1,00	0,96	0,92	0,88	0,84	0,80	0,76	0,71	0,67	0,63	0,58	0,54	0,49
Heating capacity		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

Technical data referring to the following conditions: Standard unit - Atmospheric pressure 1013 mbar - Power supply 400V/3Ph/50Hz: (1) - (2) - (3) - (6): Nominal technical data referring to nominal air flow (3), i.e. the air flow when the static pressure is (4).
 (1) Cooling: Room air temperature: 27°C d.b., 19°C w.b., Entering water temp.: 7°C, leaving water temp.: 12°C - Nominal air flow (3). For air flow different from nominal values: see (9) + (11) or (10) + (11), where the coefficients refer to water entering temperature 7°C and to nominal water flow (5).
 (2) Heating: Room air temperature: 20°C, Entering water temperature 70°C, leaving water temperature 60°C - Nominal air flow (3). For air flow different from nominal values: see (9) + (11) or (10) + (11), where the coefficients refer to water entering temperature 70°C and to nominal water flow (5).
 (3) (4) (5) (6) Cooling and Heating capacities: Data calculated based on measurements in calorimetric room ref. UNI 6552, UNI 6553/AS42 standards. (9) (4) (9) (10) Air flow and Static pressure: Measurements with casing ref. AMCA 210-74 fig. 11 standards and plenum + diaphragm ref. CNR UNI 10023 standards.
 (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. (8) Electrical data: Measurements with Wattmeter Jikogawa WT 110.



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