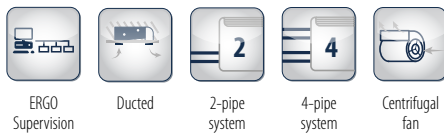


High-head thermal ventilating units

UTN 3 - 23 kW



Flexibility of installation to respond to every need

The UTN range of thermal ventilating units has been developed for air conditioning rooms where the use of ducted hydronic indoor units capable of assuring available heads of up to 180 Pa and cooling capacities of 3 to 23 kW is required. The units are characterised by a high flexibility of installation, as they can in fact be positioned either vertically or horizontally and the orientation of the air intake in the rear or front part of the unit itself can be modified by simply moving the inspection panel. All units have a standard configuration for the intake of fresh air and slots for rapidly fixing them to the wall or ceiling. Their reduced height (280 mm up to size 16 and 350 mm for larger sizes) enables them to be accommodated in normal false ceiling and the availability of a wide range of plumbing and ventilation accessories makes it easy to integrate them into air conditioning systems. The units are available in standard and high-efficiency models, depending on the finned block exchanger used, so that they can be better adapted to the needs of the room to be air-conditioned.

PLUS

- ✓ Compact dimensions (height 280 mm up to size 16 and 350 mm for larger sizes)
- ✓ Vertical and horizontal installation
- ✓ Wide range of available accessories for simple integration into the system
- ✓ Available head up to 180 Pa
- ✓ High flexibility of installation
- ✓ Can be integrated into the ERGO

AVAILABLE VERSIONS

UTN

Thermal ventilating unit suitable for 2-pipe systems

UTN DF

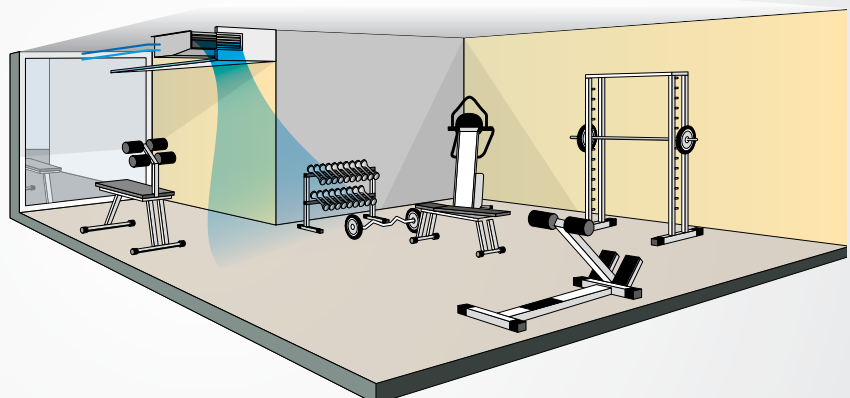
Thermal ventilating unit suitable for 4-pipe systems (2 heat exchangers)

UTN DP

The version with double panelling is made with pre-painted sheet steel insulated with class 0 fire-resistant rockwool.

Comfort and hygiene

UTN can be equipped with the exclusive ionisation system developed by Galletti to eliminate every trace of bacterial contamination from air-conditioned rooms and from the hydronic indoor unit itself.





MAIN COMPONENTS

Structure

Made of galvanized sheet steel insulated with sound-deadening, heat-insulating, self-extinguishing closed-cell material to reduce noise emissions and prevent the formation of condensate on the outside surface.

Heat exchanger

It is composed of copper tubing and aluminium fins fixed by expansion. The water connections are reversible. An additional exchanger is available for installing the unit in 4-pipe systems.

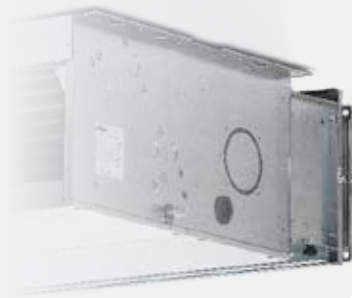
Fan

The aluminium fans are of the centrifugal type, with double suction and staggered blades to reduce noise emissions. They are statically and dynamically balanced to minimize the stresses transmitted to the motor shaft.



Filter module

The air filter, made of regenerable acrylic fibre, is available as an accessory in filtration classes G2 or G4.



Electric motor

Three-speed electrical motor, mounted on vibration damping couplings, directly connected to the fans, with permanently activated capacitor and winding thermal protection.

Condensate collection and drainage system

It consists of two insulated galvanized sheet steel trays designed for horizontal and vertical installation.

ACCESSORIES

CONTROL PANELS AND THERMOSTATS

CD	Recess wall-mounted speed selector
CDE	Wall-mounted speed selector
TD	Wall-mounted speed selector, thermostat and summer/winter selecting switch
TDC	Wall-mounted speed selector and thermostat
TD4T	Wall-mounted speed selector, thermostat and summer/winter selecting switch for 2 or 4-pipe systems with valves
MCBE	MYCOMFORT BASE electronic controller with display
MCME	MYCOMFORT MEDIUM electronic controller with display
MCLE	MYCOMFORT LARGE electronic controller with display
EVO	Wall-mounted microprocessor controller
MCSWE	Water/air sensor for MYCOMFORT BASE, MYCOMFORT MEDIUM, MYCOMFORT LARGE and LED503 microprocessor controllers.
LED503	Recess wall-mounted microprocessor controller
TC	Thermostat for minimum water temperature in heating mode, mounted on the heat exchanger
KP	Power interface for connecting in parallel up to 4 fan coils to one controller
IPM	Circuit board for connection of UTN 30, UTN 30 A, UTN 40 and UTN 40A
TA	Ambient thermostat
TA2	Ambient thermostat with summer/winter selecting switch
CSD	Recess mounted controller for opening and closing the PA 90 motor-driven regulating louver

AIR INTAKE MODULES WITH FILTER

MAF	Air intake module with G2 flat filter
MAFO	Air intake module with G4 undulated filter

AIR INTAKE AND OUTLET JUNCTION PANELS

PCOC	Junction panel with rectangular duct
PCOF	Junction panel with flexible circular duct Ø 200
G90	90° elbow outlet and inlet connector

MOTOR-DRIVEN VALVES AND DRIP TRAYS

V	3-way motor-driven valve
M	ON/OFF and modulating motors, modulating motors for motor driven valves V
R	Hydraulic connector kit for installation of V valve
VRCV	Water drip tray for vertical installation UTN
VRCH	Water drip tray for horizontal installation UTN
KSC1	Condensate drainage pump

HOT WATER POST-HEATING COILS

BP	Post-heating kit with hot water coil
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ELECTRICAL HEATING ELEMENTS

RE	Heating elements, safety devices, power relay box
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MOTOR DRIVEN EXTERNAL AIR INTAKE LOUVER

PA90	Motor-driven external air intake louver
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VIBRATION-DAMPING COUPLINGS

GA	PVC vibration-damping coupling
GAT	Heat-resistant silicone-coated cloth vibration-damping coupling

HOSES - PLUGS

TFA	Uninsulated hose Ø 200 mm
TFM	Insulated hose Ø 200 mm
TP	Plastic plug Ø 200 mm

AIR INTAKE AND OUTLET DUCTS

CA	Air intake duct with honeycomb grille
CAF	Air intake duct with honeycomb grille and G2 filter
CM	Insulated air outlet duct, with 2-way grille

AIR OUTLET AND INTAKE GRILLES

GM	Aluminium air outlet grille, with subframe
GR	Aluminium air intake grille, with subframe

Rated technical data

UTN		6			6A			8			8A		
Fan speed		min	med	max	min	med	max	min	med	max	min	med	max
Air flow (E)	m ³ /h	348	465	572	344	458	561	534	700	802	531	692	792
Available static pressure (E)	Pa	28	50	75	28	50	75	29	50	65	30	50	65
Power input (E)	W	84	122	188	84	122	188	135	185	265	135	185	265
Total cooling capacity (1) (E)	kW	2,02	2,58	3,03	2,30	3,00	3,58	2,87	3,54	3,91	3,42	4,27	4,76
Sensible cooling capacity (1) (E)	kW	1,55	1,99	2,36	1,71	2,25	2,71	2,23	2,77	3,09	2,58	3,26	3,68
Water flow(1)	l/h	347	442	521	395	515	614	493	607	671	587	732	817
Water pressure drop (1) (E)	kPa	5	8	11	4	6	9	10	14	17	8	12	14
Heating capacity (2) (E)	kW	2,61	3,27	3,82	2,94	3,75	4,43	3,63	4,41	4,85	4,24	5,22	5,79
Water pressure drop (2) (E)	kPa	4	7	9	3	5	7	8	12	14	7	10	12
Additional coil heating capacity DF (3) (E)	kW	2,95	3,45	3,82	2,93	3,42	3,78	3,70	4,21	4,48	3,69	4,18	4,45
Water flow (3)	l/h	259	302	335	257	300	332	324	369	393	324	367	391
Water pressure drop (3) (E)	kPa	4	6	7	4	6	7	6	8	9	6	8	9
Standard coil - number of rows	n°	3			4			3			4		
Additional coil DF - number of rows	n°	1			1			1			1		
Total sound power level (4)	dB(A)	48	57	63	48	57	63	54	61	66	54	61	66
Inlet + radiated sound power level (4) (E)	dB(A)	46	54	61	46	54	61	52	59	64	52	59	64
Outlet sound power level (4) (E)	dB(A)	45	53	59	45	53	59	51	58	63	51	58	63

UTN		12			12A			16			16 A		
Fan speed		min	med	max	min	med	max	min	med	max	min	med	max
Air flow (E)	m ³ /h	1021	1134	1241	998	1107	1206	1208	1384	1609	1200	1371	1584
Available static pressure (E)	Pa	41	50	59	41	50	59	38	50	67	38	50	66
Power input (E)	W	345	385	460	345	385	460	290	380	505	290	380	505
Total cooling capacity (1) (E)	kW	5,33	5,77	6,17	5,87	6,37	6,81	6,32	7,01	7,83	6,97	7,79	8,75
Sensible cooling capacity (1) (E)	kW	3,99	4,32	4,63	4,45	4,85	5,21	5,14	5,77	6,55	5,53	6,24	7,10
Water flow(1)	l/h	915	990	1059	1008	1093	1169	1085	1202	1344	1197	1336	1501
Water pressure drop (1) (E)	kPa	18	21	24	15	17	19	17	20	24	11	13	16
Heating capacity (2) (E)	kW	6,68	7,20	7,67	7,49	8,11	8,65	7,74	8,52	9,46	8,70	9,62	10,7
Water pressure drop (2) (E)	kPa	15	17	19	12	14	15	13	16	20	9	10	13
Additional coil heating capacity DF (3) (E)	kW	5,98	6,28	6,53	5,93	6,21	6,44	8,01	8,53	9,13	7,98	8,50	9,07
Water flow (3)	l/h	525	551	573	521	545	566	703	749	801	701	746	796
Water pressure drop (3) (E)	kPa	14	16	17	12	13	14	10	11	13	24	27	30
Standard coil - number of rows	n°	3			4			3			4		
Additional coil DF - number of rows	n°	1			1			1			1		
Total sound power level (4)	dB(A)	59	63	69	61	63	69	62	67	72	62	67	72
Inlet + radiated sound power level (4) (E)	dB(A)	56	60	66	56	60	66	60	64	70	60	64	70
Outlet sound power level (4) (E)	dB(A)	55	59	65	59	59	65	58	63	69	58	63	69



Rated technical data

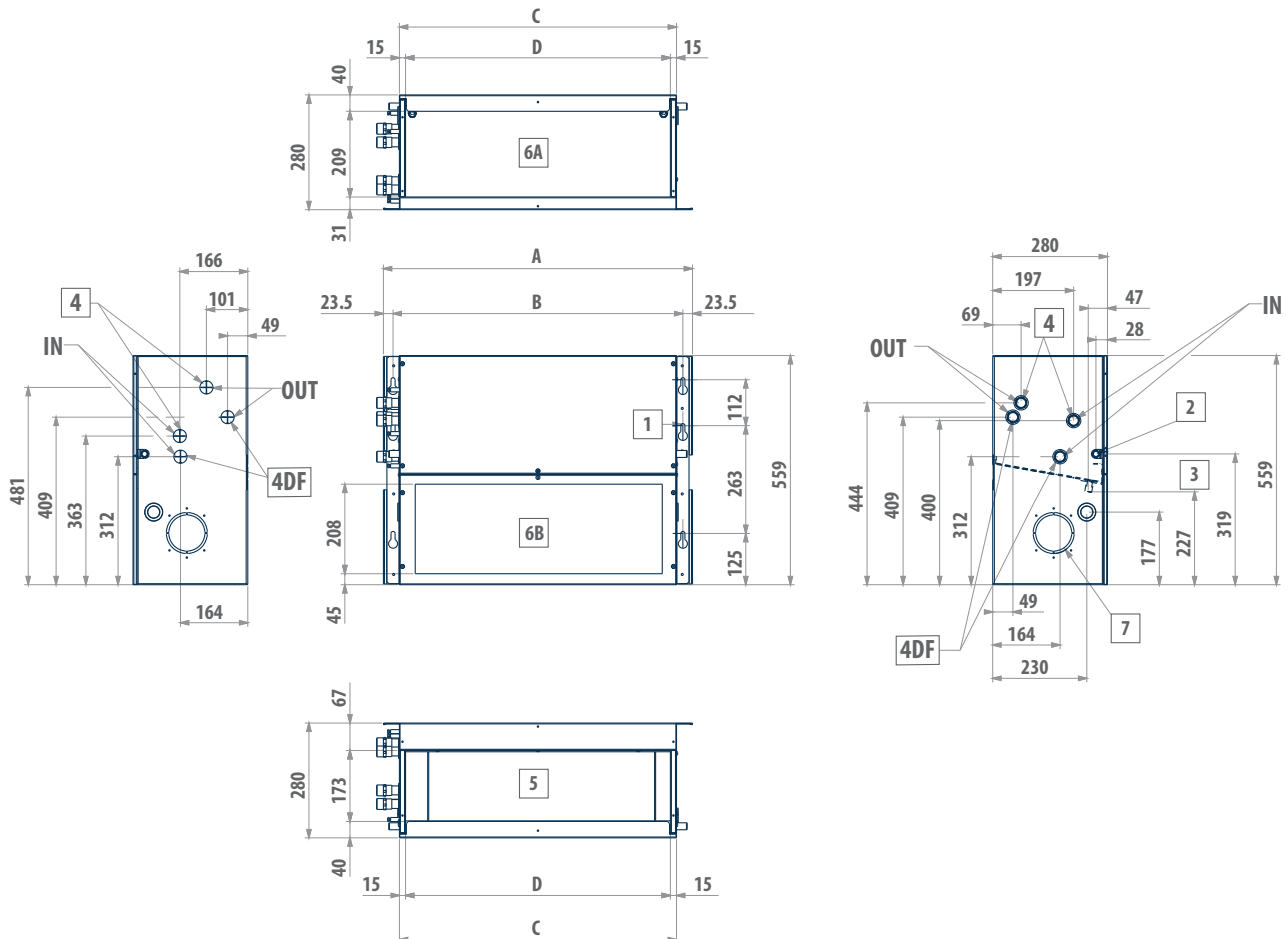
UTN		22			22 A			30			30 A		
Fan speed		min	med	min	min	med	min	min	med	min	min	med	min
Air flow (E)	m ³ /h	1485	1898	2380	1438	1819	2218	2092	2641	3206	2073	2604	3175
Available static pressure (E)	Pa	30	50	78	31	50	75	31	50	74	32	50	74
Power input (E)	W	370	535	750	370	535	750	870	1090	1300	870	1090	1300
Total cooling capacity (1) (E)	kW	8,79	10,7	12,6	9,58	11,7	13,8	12,5	14,9	17,2	13,8	16,5	19,0
Sensible cooling capacity (1) (E)	kW	6,73	8,28	9,98	7,14	8,85	10,6	9,48	11,5	13,5	10,2	12,5	14,8
Water flow(1)	l/h	1509	1827	2163	1644	2010	2366	2145	2561	2953	2365	2823	3270
Water pressure drop (1) (E)	kPa	15	21	29	12	17	22	21	29	37	27	37	48
Heating capacity (2) (E)	kW	10,8	13,0	15,3	11,7	14,1	16,4	15,2	18,1	20,8	16,5	19,7	22,9
Water pressure drop (2) (E)	kPa	12	17	23	10	14	18	17	23	30	22	30	39
Additional coil heating capacity DF (3) (E)	kW	12,3	14,4	16,4	12,1	14,0	15,8	16,9	19,5	21,9	16,8	19,3	21,8
Water flow (3)	l/h	1080	1260	1441	1061	1228	1385	1481	1711	1925	1472	1696	1913
Water pressure drop (3) (E)	kPa	8	10	13	8	10	12	11	14	17	10	13	16
Standard coil - number of rows	n°	3			4			4			5		
Additional coil DF - number of rows	n°	2			2			2			2		
Total sound power level (4)	dB(A)	60	67	74	60	67	74	69	73	78	69	73	78
Inlet + radiated sound power level (4) (E)	dB(A)	58	65	72	58	65	72	67	71	76	67	71	76
Outlet sound power level (4) (E)	dB(A)	57	64	71	57	64	71	66	70	75	66	70	75

UTN		40			40 A		
Fan speed		min	med	min	min	med	min
Air flow (E)	m ³ /h	3129	3706	4422	3067	3622	4287
Available static pressure (E)	Pa	35	50	71	36	50	71
Power input (E)	W	650	820	1150	650	820	1150
Total cooling capacity (1) (E)	kW	16,1	18,2	20,7	18,0	20,4	23,2
Sensible cooling capacity (1) (E)	kW	12,7	14,6	16,8	14,0	16,1	18,6
Water flow(1)	l/h	2761	3128	3551	3082	3505	3979
Water pressure drop (1) (E)	kPa	17	21	26	16	20	25
Heating capacity (2) (E)	kW	20,5	23,1	26,1	22,4	25,4	28,7
Water pressure drop (2) (E)	kPa	16	20	24	16	20	25
Additional coil heating capacity DF (3) (E)	kW	20,8	23,0	25,4	21,9	24,3	27,1
Water flow (3)	l/h	1824	2016	2229	1918	2132	2379
Water pressure drop (3) (E)	kPa	11	14	16	12	15	18
Standard coil - number of rows	n°	4			5		
Additional coil DF - number of rows	n°	2			2		
Total sound power level (4)	dB(A)	70	74	79	70	74	79
Inlet + radiated sound power level (4) (E)	dB(A)	68	72	77	68	72	77
Outlet sound power level (4) (E)	dB(A)	67	71	76	67	71	76

- (1) Water temperature 7 / 12°C, air temperature D.B. 27°C, W.B. 19°C (47% relative humidity)
 (2) Inlet water temperature 50°C, water flow rate same as in cooling mode, air temperature 20°C
 (3) Water temperature 70 / 60°C, air temperature 20°C
 (4) Sound power measured according to standards ISO 3741 and ISO 3742
 (E) EUROVENT certified data
 Power supply 230-1-50 (V-ph-Hz)

Dimensional drawings

UTN 06 - 16



LEGEND

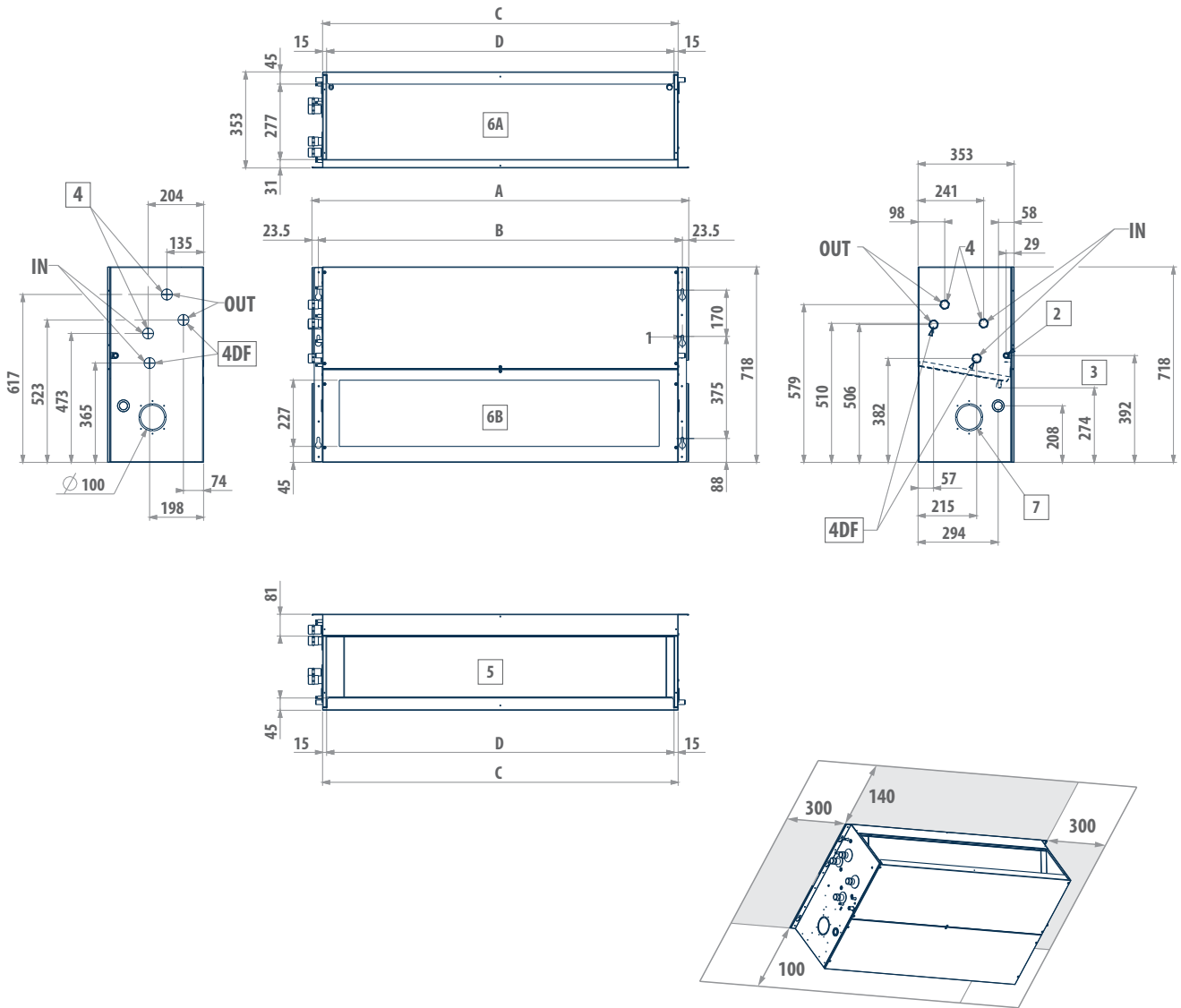
1	Nr.6 quick-coupling slots
2	Drain outlet for horizontal installation
3	Drain outlet for vertical installation
4	Water connections on the right
4DF	Additional heat exchanger water connections
5	Air outlet
	Air intake
6	6-A supply condition
	6-B modifiable during installation
7	Circular pre-cut slot (Ø 100 mm) for intake of external air

UTN	A	B	C	D	2	3	4	4DF
06 - 06A	754	707	676	646	17	17	3/4"	3/4"
08 - 08A	754	707	676	646	17	17	3/4"	3/4"
12 - 12A	964	917	886	856	17	17	3/4"	3/4"
16 - 16A	1174	1127	1096	1066	17	17	3/4"	3/4"



Dimensional drawings

UTN 22 - 40



LEGEND

1	Nr.6 quick-coupling slots
2	Drain outlet for horizontal installation
3	Drain outlet for vertical installation
4	Water connections on the right
4DF	Additional heat exchanger water connections
5	Air outlet
	Air intake
6	6-A supply condition
	6-B modifiable during installation
7	Circular pre-cut slot (Ø 100 mm) for intake of external air

UTN	A	B	C	D	2	3	4	4DF
22 - 22A	1174	1127	1096	1066	17	17	1"	1"
30 - 30A	1384	1337	1306	1276	17	17	1"	1"
40 - 40A	1594	1547	1516	1486	17	17	1"	1"