



High-head thermal ventilating units with EC motor

UTN i 4 - 18 kW



EC Motor



2 pipes systems



4 pipes systems



Centrifugal fan



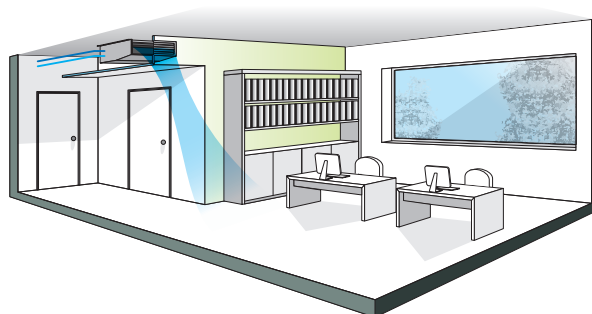
Ducted

High efficiency and low noise emissions for ducted applications

The thermal ventilating units of the UTN i range with inverter motors and cooling capacities of 4 to 18 kW represent an evolution of the UTN series: keeping in pace with current legislation on energy savings and equipment efficiency and the most recent technological developments in the realm of electric motors, Galletti offers ducted units equipped with inverter-controlled permanent magnet EC motors. This solution makes it possible to reduce electricity consumption by up to 70% compared to a traditional asynchronous motor and at the same time offers the possibility of achieving a precise regulation of air flow, thanks to its ability to vary the number of fan revolutions in a continuous and efficient manner. The particular features which characterize the UTN series, namely, the height of 280 mm to enable the units to be accommodated in false ceilings, flexibility of installation and connection to air ducts and wide selection of accessories, are maintained to ensure the same standards of quality. Moreover, the availability of heat exchangers with a large number of rows makes it possible to use a low-temperature thermal carrier fluid in the heating mode, which means further energy savings.

PLUS

- » Permanent magnet EC motor
- » Low electricity consumption
- » Easy setup of ventilation section
- » Reduced height across the entire range (280 mm)
- » Vertical and horizontal installation
- » Wide range of available accessories
- » High flexibility of installation



Comfort and quiet operation

Thanks to the possibility of regulating the rotation speed of the motor with high precision, UTN i is well-suited to interiors where keeping noise levels low is a must.

AVAILABLE VERSIONS

UTXXXILO...0A Thermal ventilating unit suitable for 2-pipe systems

UTXXXILL...0A Thermal ventilating unit suitable for 4-pipe systems (2 heat exchangers)

UTXXXILO...02 The version with double panelling is made with pre-painted sheet steel insulated with class 0 fire-resistant rockwool **(On request)**

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. Water connections are reversible. An additional exchanger is available for installing the unit in 4-pipe systems.

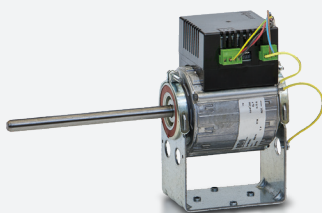
Fan

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.



Electric motor EC

Permanent magnet motor. The unit is equipped with an inverter board to control the motor, that makes it possible to precisely set the maximum rotation speed of the motor (control signal 0-10 V).



Condensate collection and drainage system

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

Filter module

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

ACCESSORIES

Electronic microprocessor control panels with display

DIST	MYCOMFORT controller spacer for wall mounting
EVO-2-TOUCH	2.8" touch screen user interface for EVO control
EVOBOARD	Circuit board for EVO control
EVODISP	User interface with display for EVO controller
EYNAVEL	Device for Wi-Fi or Bluetooth communication between EVOBOARD and smartphone
MCLE	Microprocessor control with display MYCOMFORT LARGE
MCSUE	Humidity sensor for MYCOMFORT LARGE and EVO
MCSWE	Water sensor for MYCOMFORT and EVO controllers

Electronic microprocessor control panels

TED 10	Electronic controller for BLDC fan equipped with inverter and ON/OFF valves 230 V
TED SWA	Water temperature sensor for TED controls

Power interface and regulating louver controllers

CSD	Recess mounted controller for opening and closing the SM motor-driven regulating louver
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Auxiliary water drip trays, insulating shell, condensate drainage pump

KSC	Condensate drainage pump kit
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Electrical heating elements

RE	Heating element with installation kit, relay box and safety devices
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Air inlet and outlet grilles

GM	Aluminium air outlet grille with 2-row fins and subframe
GR	Air intake grille with subframe
GRF	Air intake grille with subframe and filter

External air intake louvers

PA90	Motor-driven external air intake louver
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Valves

V2VDF+STD	2-way valves, ON/OFF or MODULATING actuator, 230 V or 24 V power supply, hydraulic kit, for main and additional heat exchanger
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V2VSTD	2-way valve, ON/OFF or MODULATING actuator, 230 V or 24 V power supply, hydraulic kit, for main heat exchanger
V3VDF	3-way valves, ON/OFF or MODULATING actuator, 230 V or 24 V power supply, hydraulic kit, for additional heat exchanger
V3VSTD	2-way valves, ON/OFF or MODULATING actuator, 230 V or 24 V power supply, hydraulic kit, for main heat exchanger
VPI	2-way valves pressure independent, ON/OFF actuator, 230 V power supply, hydraulic kit, for main heat exchanger

Plenum, air intake modules, air inlet and outlet connectors and cabinets

G90	90° connection for intake/delivery
MAF	Air intake module with G2 flat air filter
MAFO	Air intake module with G4 undulated air filter
PCOC	Junction panel with rectangular duct
PCOF	Junction panel with flexible circular duct Ø 200

Flexible ducts - caps

TFA	Not insulated flexible ducts, Ø 200 mm (6 m length undivisible)
TFM	Insulated flexible ducts, Ø 200 mm (6 m length undivisible)
TP	Plastic cap Ø 200 mm

Air inlet and outlet plenum box

CA	Air Inlet plenum box with double row grille
CAF	Air Inlet plenum box with double row grille 300 x 600 mm and filter G2
CM	Insulated air outlet plenum box with grille

Accessories

UYBP	Hot water post-heating exchanger kit
VRCH	Auxiliary water drip tray for horizontal installation units
VRV	Auxiliary water drip tray for vertical installation units

Vibration-damping couplings

GA	Vibration-damping coupling
GAT	Heat-resistant vibration-damping coupling

RATED TECHNICAL DATA 2 PIPES

UTN i			8A			8D			12A			12D		
Speed			min	med	max	min	med	max	min	med	max	min	med	max
Control voltage	(E)	V	6,00	7,40	8,90	6,00	7,40	8,90	7,30	8,00	8,80	7,30	8,00	8,80
Rated air flow	(E)	m³/h	532	692	791	534	700	802	1000	1107	1203	1019	1134	1238
Available static pressure	(E)	Pa	30	50	65	29	50	65	41	50	59	40	50	59
Power input	(E)	W	40	73	133	40	73	112	102	125	152	102	125	170
Total cooling capacity	(1)(E)	kW	3,38	4,20	4,65	2,83	3,47	3,80	5,78	6,25	6,65	5,22	5,65	6,01
Sensible cooling capacity	(1)(E)	kW	2,54	3,19	3,56	2,19	2,70	2,98	4,35	4,73	5,04	3,90	4,20	4,47
FCEER class	(E)		B			C			C			C		
Water flow	(2)	l/h	582	723	801	487	598	654	995	1076	1145	899	973	1035
Water pressure drop	(2)(E)	kPa	8	12	14	10	14	17	15	17	19	18	21	24
Heating capacity	(3)(E)	kW	3,55	4,36	4,83	3,04	3,69	4,05	6,29	6,80	7,26	5,59	6,03	6,42
FCCOP class			B			B			C			C		
Water flow	(3)	l/h	611	751	832	523	635	697	1083	1171	1250	963	1038	1106
Water pressure drop	(3)(E)	kPa	7	11	13	9	13	15	14	17	18	17	19	22
Standard coil - number of rows			4			3			4			3		
Total sound power level	(4)	dB(A)	54	61	66	54	61	66	61	63	69	59	63	69
Inlet + radiated sound power level	(4)(E)	dB(A)	52	59	64	52	59	64	56	60	66	56	60	66
Outlet sound power level	(4)(E)	dB(A)	51	58	63	51	58	63	59	59	65	55	59	65

UTN i			16A			16D			19A			22A		
Speed			min	med	max	min	med	max	min	med	max	min	med	max
Control voltage	(E)	V	6,70	7,70	8,90	6,70	7,70	8,90	6,60	8,00	9,00	3,80	5,90	7,90
Rated air flow	(E)	m³/h	1198	1371	1581	1207	1384	1606	1166	1500	1577	1436	1819	2222
Available static pressure	(E)	Pa	38	50	66	38	50	67	33	50	62	31	50	75
Power input	(E)	W	124	170	248	124	170	248	109	190	247	135	210	407
Total cooling capacity	(1)(E)	kW	6,84	7,62	8,49	6,20	6,84	7,57	7,50	9,36	10,4	9,43	11,5	13,6
Sensible cooling capacity	(1)(E)	kW	5,40	6,07	6,83	5,01	5,60	6,29	7,35	9,17	10,3	6,99	8,65	10,3
FCEER class	(E)		C			C			C			B		
Water flow	(2)	l/h	1178	1312	1462	1068	1178	1304	1289	1663	1789	1644	2010	2366
Water pressure drop	(2)(E)	kPa	11	13	16	17	20	24	24	37	43	12	17	22
Heating capacity	(3)(E)	kW	7,28	8,04	8,93	6,47	7,11	7,88	7,94	9,96	11,0	9,73	11,7	13,7
FCCOP class			C			C			B			B		
Water flow	(3)	l/h	1254	1384	1538	1114	1224	1357	1365	1715	1857	1676	2020	2354
Water pressure drop	(3)(E)	kPa	10	12	14	15	17	21	22	29	34	10	14	19
Standard coil - number of rows			4			3			4			4		
Total sound power level	(4)	dB(A)	62	67	72	62	67	72	61	67	71	60	67	74
Inlet + radiated sound power level	(4)(E)	dB(A)	60	64	70	60	64	70	59	65	69	58	65	72
Outlet sound power level	(4)(E)	dB(A)	58	63	69	58	63	69	57	63	68	57	64	71

(1) Water temperature 7°C/12°C, air temperature dry bulb 27°C, wet bulb 19°C (47% relative humidity) according to EN1397:2021

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

(3) Water temperature 45°C / 40°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)

NOTE: The dimensional drawings of the UTN i inverter units are the same of the UTN ON/OFF version. They are reported from page 124

RATED TECHNICAL DATA 2 PIPES

UTN i			22D			30A			30D		
Speed			min	med	max	min	med	max	min	med	max
Control voltage	(E)	V	3,90	6,10	8,30	3,60	5,50	7,20	3,60	5,60	7,20
Rated air flow	(E)	m ³ /h	1483	1898	2376	2074	2604	3174	2092	2641	3207
Available static pressure	(E)	Pa	30	50	78	32	50	74	31	50	74
Power input	(E)	W	140	247	441	195	310	512	200	320	445
Total cooling capacity	(1)(E)	kW	8,64	10,4	12,2	13,6	16,2	18,6	12,3	14,6	16,8
Sensible cooling capacity	(1)(E)	kW	6,58	8,07	9,66	10,1	12,2	14,3	9,29	11,2	13,0
FCEER class	(E)		C			B			C		
Water flow	(2)	l/h	1509	1827	2163	2365	2823	3270	2145	2561	2953
Water pressure drop	(2)(E)	kPa	15	21	29	27	37	48	21	29	37
Heating capacity	(3)(E)	kW	9,06	10,8	12,7	13,7	16,4	19,1	12,7	15,0	17,3
FCCOP class			C			B			C		
Water flow	(3)	l/h	1560	1867	2190	2359	2824	3289	2183	2592	2977
Water pressure drop	(3)(E)	kPa	14	19	25	23	32	41	18	25	31
Standard coil - number of rows			3			5			4		
Total sound power level	(4)	dB(A)	65	71	74	69	73	78	69	73	78
Inlet + radiated sound power level	(4)(E)	dB(A)	63	69	72	67	71	76	67	71	76
Outlet sound power level	(4)(E)	dB(A)	61	67	71	66	70	75	66	70	75

(1) Water temperature 7°C/12°C, air temperature dry bulb 27°C, wet bulb 19°C (47% relative humidity) according to EN1397:2021

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Power supply 230-1-50 (V-ph-Hz)

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RATED TECHNICAL DATA 4 PIPES

UTN i			8A			8D			12A			12D		
Speed			min	med	max	min	med	max	min	med	max	min	med	max
Control voltage	(E)	V	6,00	7,40	8,90	6,00	7,40	8,90	7,30	8,00	8,80	7,30	8,00	8,80
Rated air flow DF	(E)	m³/h	529	686	783	531	694	793	985	1088	1182	1005	1115	1211
Available static pressure DF	(E)	Pa	30	50	65	29	50	65	41	50	59	41	50	59
Power input DF	(E)	W	40	73	112	45	73	112	102	125	152	102	125	152
Total cooling capacity DF	(1)(E)	kW	3,36	4,17	4,61	2,82	3,44	3,76	5,71	6,17	6,55	5,17	5,58	5,91
Sensible cooling capacity DF	(1)(E)	kW	2,52	3,17	3,53	2,18	2,68	2,95	4,30	4,66	4,97	3,84	4,15	4,39
FCEER class DF	(E)		B			C			C			C		
Water flow DF	(2)	l/h	579	718	794	486	592	647	983	1062	1128	890	961	1018
Water pressure drop DF	(2)(E)	kPa	8	12	14	10	14	17	15	17	19	18	21	23
Heating capacity DF	(3)(E)	kW	3,23	3,66	3,89	3,23	3,68	3,91	5,21	5,45	5,65	5,25	5,51	5,72
FCCOP class DF	(E)		B			B			B			C		
Water flow DF	(3)	l/h	278	315	355	278	317	337	449	469	486	452	474	492
Water pressure drop DF	(3)(E)	kPa	5	6	7	5	6	7	10	11	12	12	13	14
Additional coil DF - number of rows			1			1			1			1		
Total sound power level DF	(4)	dB(A)	54	61	66	54	61	66	61	64	69	59	63	69
Inlet + radiated sound power level DF	(4)(E)	dB(A)	52	59	64	52	59	64	56	60	66	56	60	66
Outlet sound power level DF	(4)(E)	dB(A)	51	58	63	51	58	63	55	59	65	55	59	65

UTN i			16A			16D			19A			22A		
Speed			min	med	max	min	med	max	min	med	max	min	med	max
Control voltage	(E)	V	6,70	7,70	8,90	7,00	7,70	8,90	6,60	8,00	9,00	3,80	5,90	7,90
Rated air flow DF	(E)	m³/h	1184	1349	1550	991	1094	1212	1143	1470	1545	1423	1795	2184
Available static pressure DF	(E)	Pa	38	50	66	38	50	61	38	50	62	31	50	74
Power input DF	(E)	W	137	198	294	124	170	248	109	190	247	138	210	305
Total cooling capacity DF	(1)(E)	kW	6,77	7,52	8,35	6,14	6,75	7,46	5,62	7,00	9,10	9,35	11,3	13,3
Sensible cooling capacity DF	(1)(E)	kW	5,34	5,98	6,71	4,96	5,52	6,19	5,44	6,86	8,85	6,94	8,55	10,1
FCEER class DF	(E)		C			C			C			B		
Water flow DF	(2)	l/h	1166	1295	1438	1057	1162	1285	1268	1582	1777	1631	1987	2336
Water pressure drop DF	(2)(E)	kPa	15	20	23	16	19	23	20	31	36	12	16	22
Heating capacity DF	(3)(E)	kW	6,99	7,44	7,94	7,02	7,47	7,99	7,80	9,80	10,8	10,6	12,3	13,9
FCCOP class DF	(E)		C			C			B			B		
Water flow DF	(3)	l/h	602	641	684	604	643	688	1338	1679	1854	916	1059	1194
Water pressure drop DF	(3)(E)	kPa	20	22	25	22	24	27	22	29	34	6	8	10
Additional coil DF - number of rows			1			1			1			2		
Total sound power level DF	(4)	dB(A)	62	67	72	62	67	72	61	67	71	60	67	74
Inlet + radiated sound power level DF	(4)(E)	dB(A)	60	64	70	60	64	70	59	65	69	61	65	72
Outlet sound power level DF	(4)(E)	dB(A)	58	63	69	58	63	69	57	63	68	57	64	71

(1) Water temperature 7°C/12°C, air temperature dry bulb 27°C, wet bulb 19°C (47% relative humidity) according to EN1397:2021

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

(3) Water temperature 65°C / 55°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)

NOTE: The dimensional drawings of the UTN i inverter units are the same of the UTN ON/OFF version. They are reported from page 124

RATED TECHNICAL DATA 4 PIPES

UTN i			22D			30A			30D		
Speed			min	med	max	min	med	max	min	med	max
Control voltage	(E)	V	3,90	6,10	8,30	3,60	5,50	7,20	3,60	5,60	7,20
Rated air flow DF	(E)	m³/h	1468	1871	2332	2065	2590	3154	2083	2626	3187
Available static pressure DF	(E)	Pa	30	50	78	32	50	74	31	50	74
Power input DF	(E)	W	144	220	317	221	345	510	223	350	596
Total cooling capacity DF	(1)(E)	kW	8,56	10,3	12,1	13,6	16,0	18,6	12,2	14,5	16,6
Sensible cooling capacity DF	(1)(E)	kW	6,51	7,98	9,50	9,99	12,0	14,3	9,23	11,1	13,0
FCEER class DF	(E)		C			C					
Water flow DF	(2)	l/h	1493	1808	2130	2358	2811	3254	2138	2550	2940
Water pressure drop DF	(2)(E)	kPa	15	21	28	27	37	48	21	28	36
Heating capacity DF	(3)(E)	kW	10,9	12,6	14,4	14,8	17,0	19,2	14,9	17,2	19,3
FCCOP class DF	(E)		B			C					
Water flow DF	(3)	l/h	935	1087	1242	1273	1466	1652	1281	1478	1662
Water pressure drop DF	(3)(E)	kPa	6	8	10	13	16	20	13	17	21
Additional coil DF - number of rows			2			2			2		
Total sound power level DF	(4)	dB(A)	60	67	74	69	73	78	69	73	78
Inlet + radiated sound power level DF	(4)(E)	dB(A)	58	65	72	67	71	76	67	71	76
Outlet sound power level DF	(4)(E)	dB(A)	57	64	71	66	70	75	66	70	75

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

(3) Water temperature 65°C / 55°C, air temperature 20°C

(4) Sound power measured according to standards ISO 3741 and ISO 3742

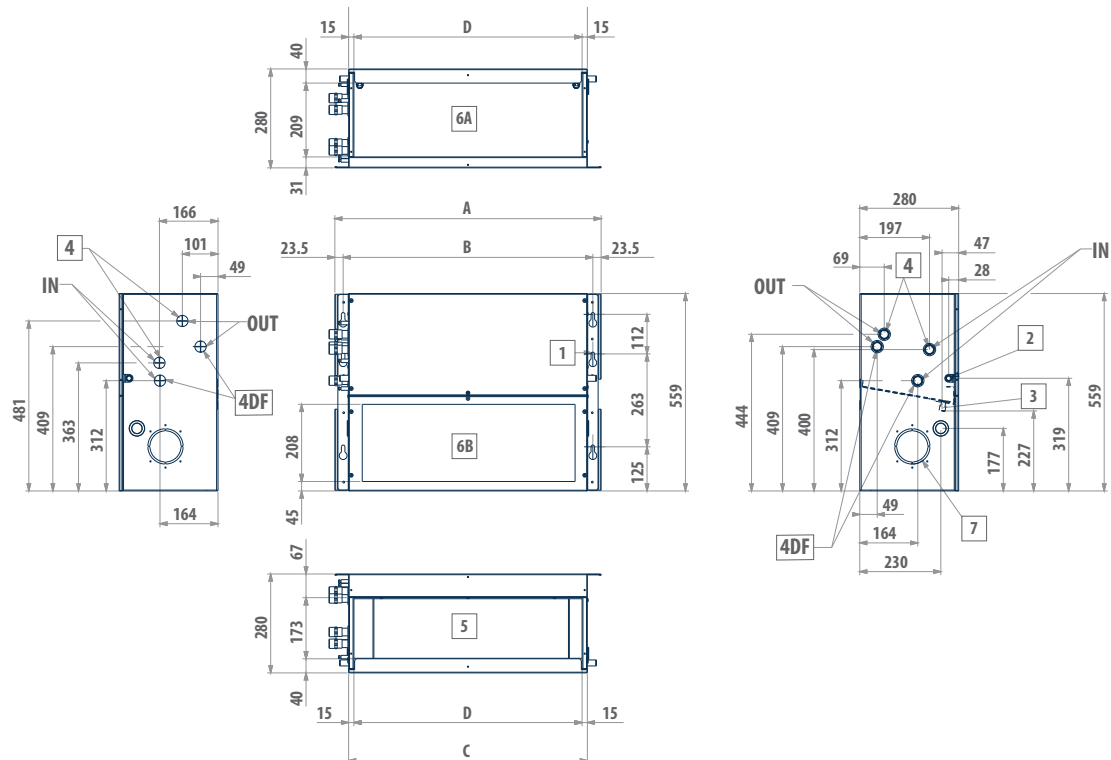
(E) EUROVENT certified data

Power supply 230-1-50 (V-ph-Hz)

NOTE: The dimensional drawings of the UTN i inverter units are the same of the UTN ON/OFF version. They are reported from page 124

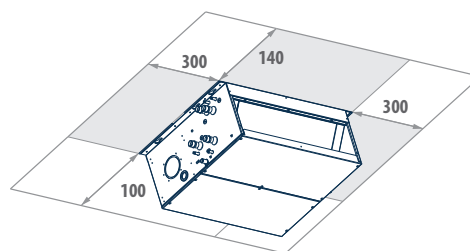
DIMENSIONAL DRAWINGS

UTN 06 - 19



LEGEND

1	No. 6 quick-coupling slots
2	Condensate drainage horizontal installation
3	Condensate drainage vertical installation
4	Water connections on the right
4DF	Water connections additional heat exchanger
5	Air outlet
6	Air intake
6-A	supply condition
6-B	modifiable during installation
7	Circular pre-cut slot (Ø 100 mm) for intake of external air

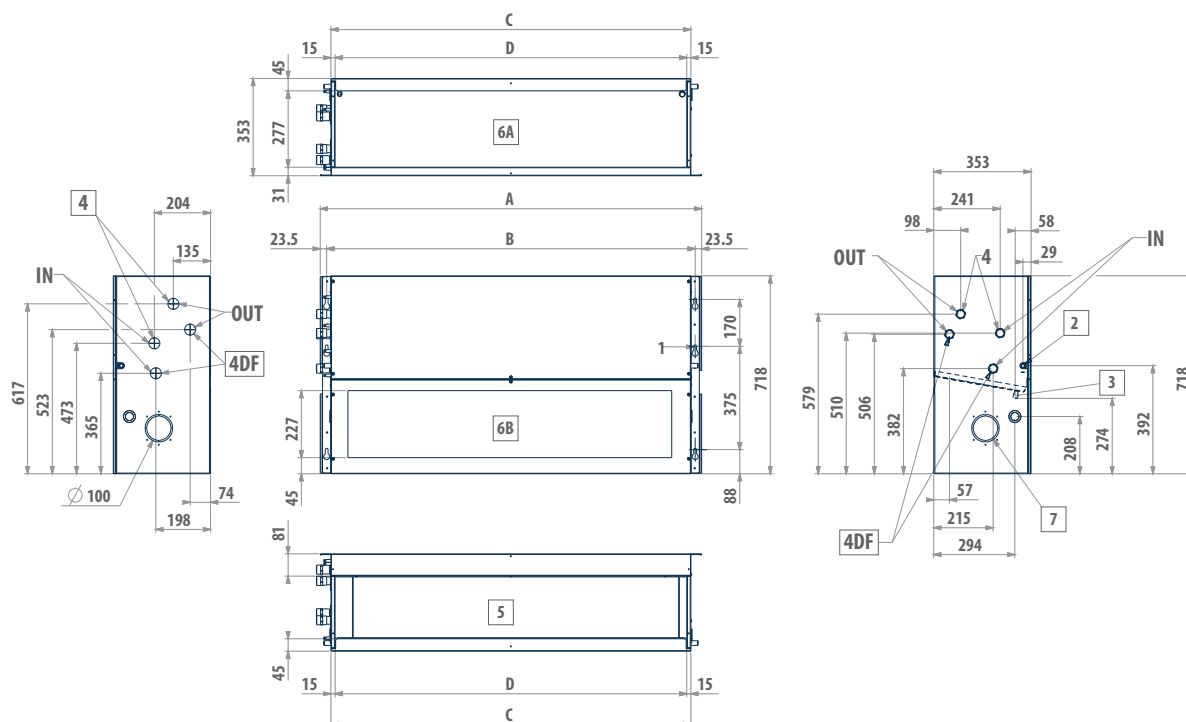


UTN	A mm	B mm	C mm	D mm	4 "	4DF "	2 mm	3 mm	kg
6D - 6A - 8D - 8A	754	707	676	646	3/4	3/4	17	17	33
12D - 12A	964	917	886	856	3/4	3/4	17	17	42
16D - 16A - 19A	1174	1127	1096	1066	3/4	3/4	17	17	49

MODELS 6 AND 6A AVAILABLE ON/OFF VERSION ONLY

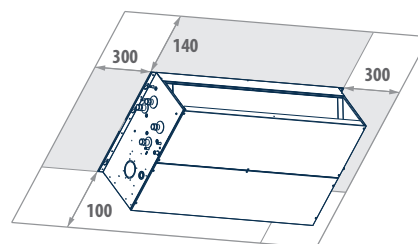
DIMENSIONAL DRAWINGS

UTN 22 - 40



LEGEND

- | | |
|-----|---|
| 1 | No. 6 quick-coupling slots |
| 2 | Condensate drainage horizontal installation |
| 3 | Condensate drainage vertical installation |
| 4 | Water connections on the right |
| 4DF | Water connections additional heat exchanger |
| 5 | Air outlet |
| 6 | Air intake |
| 6-A | supply condition |
| 6-B | modifiable during installation |
| 7 | Circular pre-cut slot (Ø 100 mm) for intake of external air |



UTN	A mm	B mm	C mm	D mm	4 "	4DF "	2 mm	3 mm	kg
22D - 22A	1174	1127	1096	1066	1	1	17	17	67
30D - 30A	1384	1337	1306	1276	1	1	17	17	80
40D - 40A	1594	1547	1516	1486	1	1	17	17	90