Ventilclima®
Apparecchi per la Climatizzazione

DUCTABLE AIR TREATMENT UNITS

UTC
UTV

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

CE ICIM CISQ
ISO 9001:2000 - Cert. n. 1368

3.2 kW
50.6 kW

7.2 kW
100.8 kW

670 m³/h
9250 m³/h

STRUCTURE

Made of heavy gauge galvanised steel (1,5 mm) it is insulated in all parts in direct contact with the conditioned air. Insulated condensate tray made of galvanised steel, complete with drain plug for complete drainage. Ceiling-anchoring slots for easy fixing and levelling of the unit.

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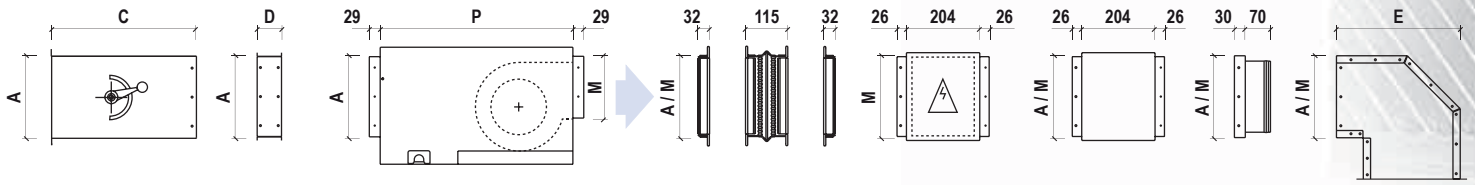
UTC

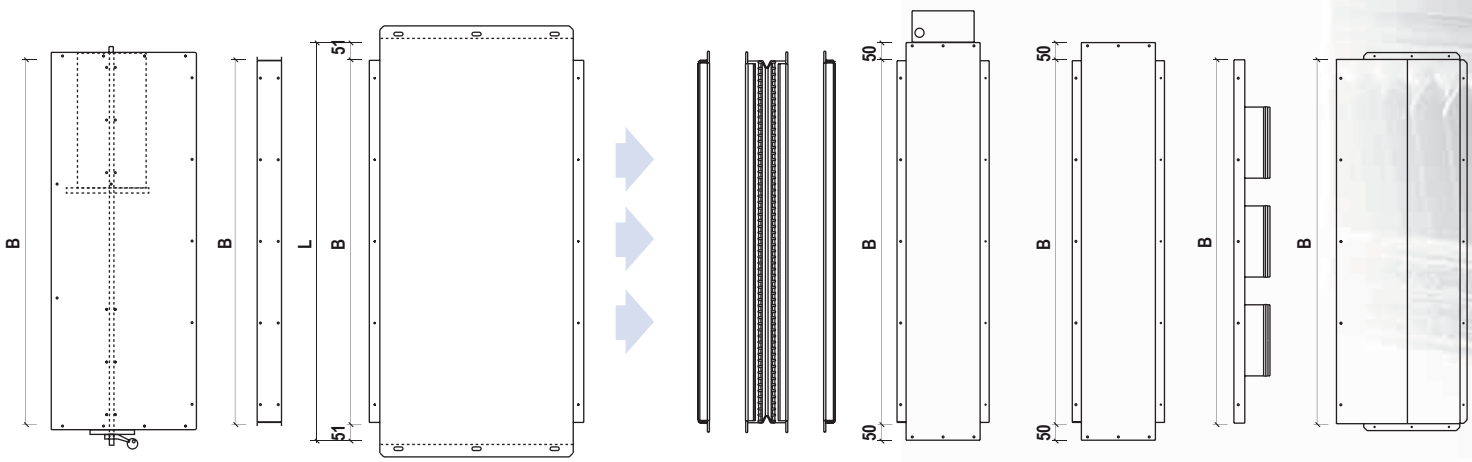
HEAT EXCHANGER

Coils are made of copper pipe expanded into aluminium fins. Copper headers with male fittings (GAS threads) and easily accessible air vents. In the standard version, the water connections are located on the left (looking at the air outlet). On request, the water connections can be placed on the right side of the unit.

BLOWER SECTION

Double-inlet centrifugal fans with statically and dynamically balanced horizontally-oriented aluminium impellers. Single-phase asynchronous electric motor with overload cutout. The motor with three speeds is directly coupled to the fans and cushioned with flexible mountings to ensure low noise.





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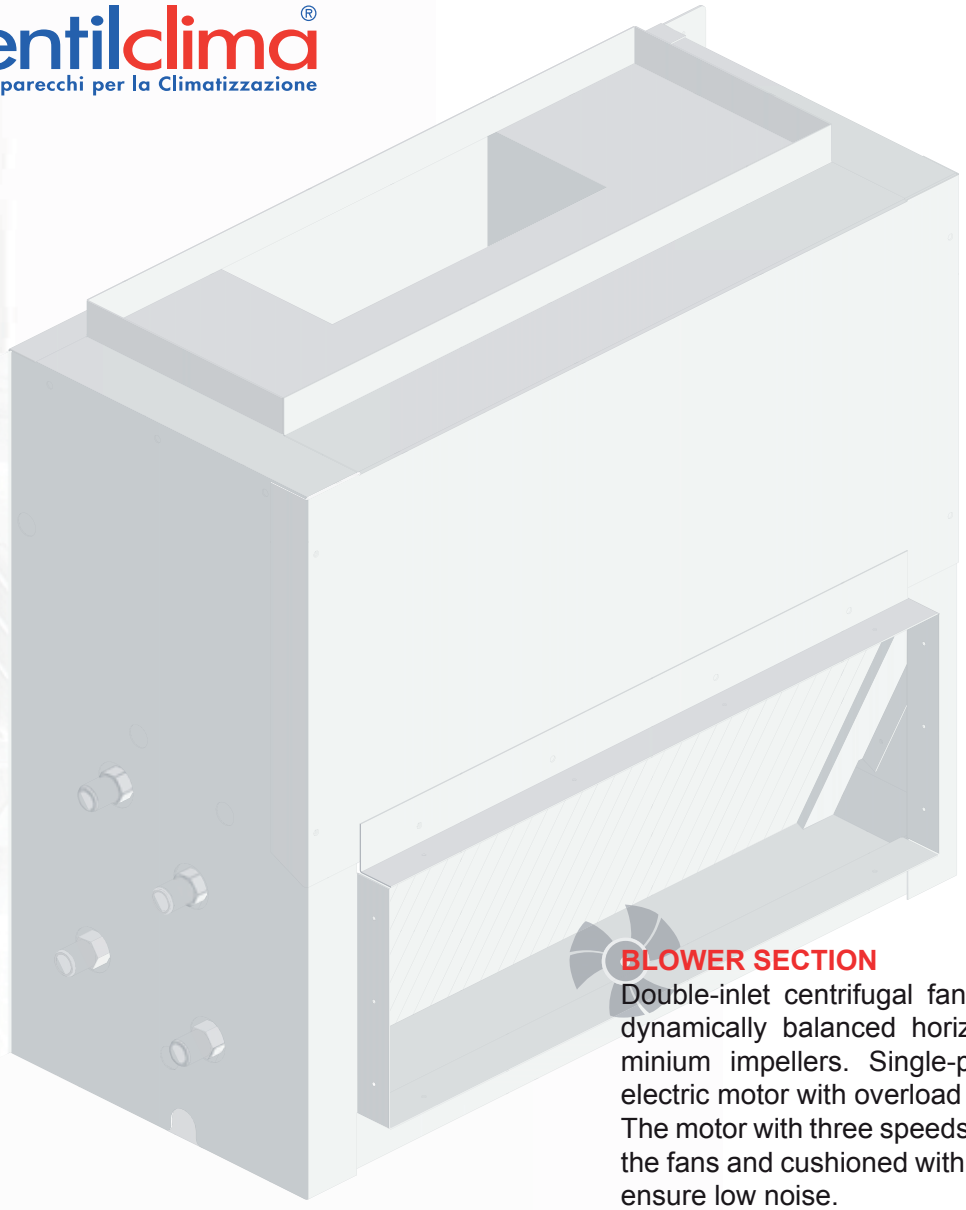


UTV

BLOWER SECTION

Double-inlet centrifugal fans with statically and dynamically balanced horizontally-oriented aluminium impellers. Single-phase asynchronous electric motor with overload cutout.
The motor with three speeds is directly coupled to the fans and cushioned with flexible mountings to ensure low noise.

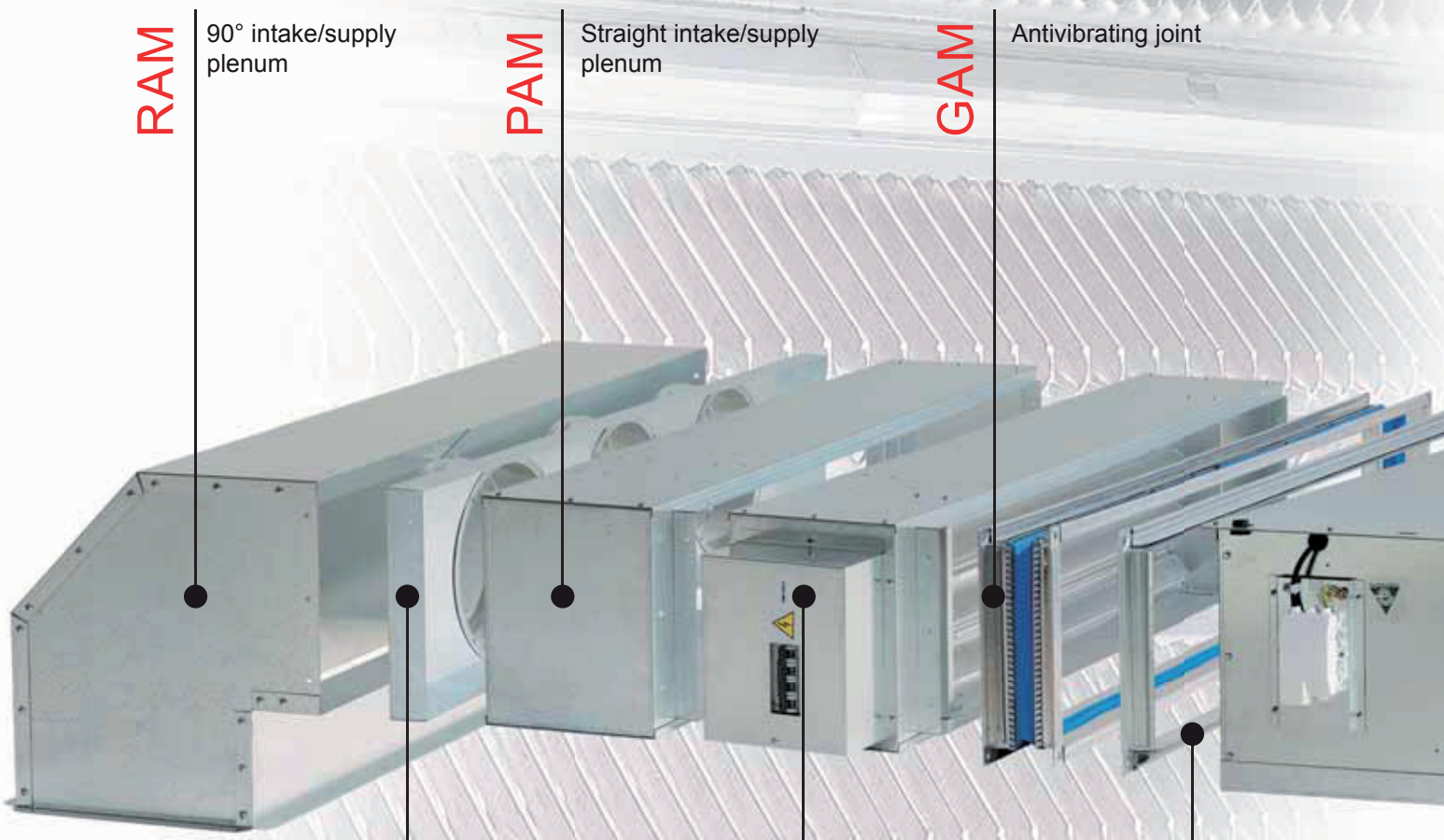
STRUCTURE

Made of heavy gauge galvanised steel (1,5 mm) it is insulated in all parts in direct contact with the conditioned air. Insulated condensate tray made of galvanised steel, complete with drain plug for complete drainage.
Ceiling-anchoring slots for easy fixing and levelling of the unit.

HEAT EXCHANGER

Coils are made of copper pipe expanded into aluminium fins. Copper headers with male fittings (GAS threads) and easily accessible air vents. In the standard version, the water connections are located on the left (looking at the air outlet).
On request, the water connections can be placed on the right side of the unit.

UTC and UTV Ventilclima series are ductable air treatment units for horizontal (UTC) and vertical (UTV) installations.
They are particularly indicated for the use in air conditioning systems with air distribution by a small duct network since the unit, thanks to the reduced height thickness, is suitable for ceiling installations.



RAM 90° intake/supply plenum

PAM Straight intake/supply plenum

GAM Antivibrating joint

BAM Intake/supply section with spigots

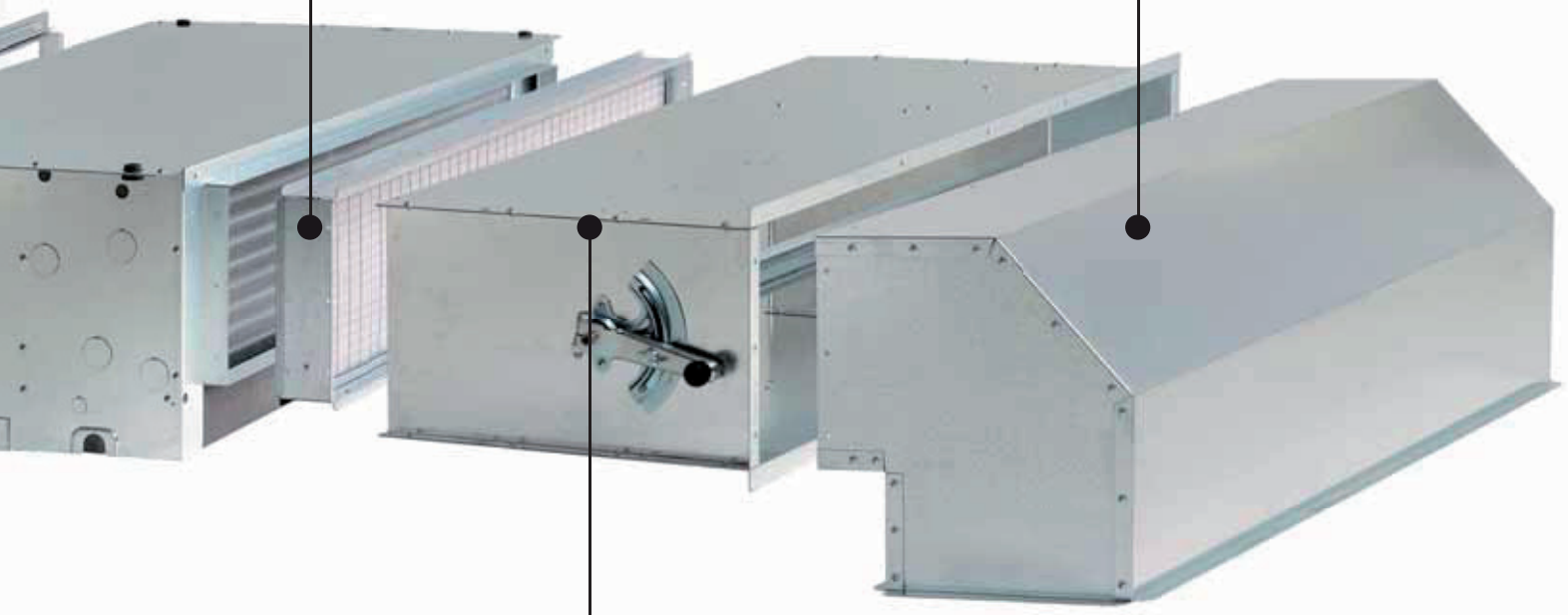
SRE Heating section with electric heater (380V), made according to the international security standard. It is supplied complete with safety thermostat with automatic reset, interface relay, electric wiring control terminal and main switch.

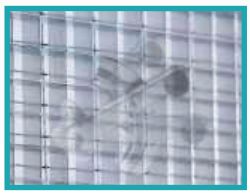
FAM Connecting flange

VENTILCLIMA TAKES PART TO THE EUROVENT PROGRAM
OF FAN COIL PERFORMANCE CERTIFICATION
IN ORDER TO PROVIDE ITS CUSTOMERS THE RELIABILITY
AND ACCURACY OF PERFORMANCES.

SFA Air filter section. Easily extractable, made of a metal frame containing the filtering element. Filter class G3, regenerable by washing with water or air blowing.

RAM 90° intake/supply plenum





SSP Section with fresh air louver (manual).
Made of galvanised steel, it allows the flow of external air in the room.
Inside air flow: 100% ÷ 66,6%.
External air flow: 0% ÷ 33,3%

Accessories

A wide range of options and accessories is available for complete requirement satisfaction:

- Water flow and temperature control with the 3-way or 2-way valve sets, on/off valves and modulating valves;
- AUXILIARY COIL - Heating coil (4 pipe system);
- 4 AND 6 ROWS COIL;
- Motoror for fresh air louvers.

UTC

TECHNICAL DATA

MODEL				10	20	30	40	50	No Eurovent certified 60	70
2 pipe system (Standard coil)										
COOLING Inlet water temp.: 7 °C Outlet water temp.: 12°C Inlet air temp.: 27°C d.b.-19°C w.b.	Total cooling capacity	W	max	3830	7050	9200	10600	13100	27800	50550
		W	med	3530	6360	8670	9810	11330	24680	45460
		W	min	3190	5180	7230	7810	8910	21290	39530
	Sensible cooling capacity	W	max	3050	5640	7360	8630	11000	21000	39460
		W	med	2800	5030	6940	7890	9400	18480	35030
		W	min	2490	3990	5640	6110	7200	15730	30100
	Water flow	l/h	max	657	1211	1579	1530	2248	4771	8676
	Water pressure drop	kPa	max	23,00	32,00	29,00	34,30	33,20	34,00	36,00
HEATING Air temp.: 20°C Inlet water temp.: 50°C	Heating capacity	W	max	5020	8610	11330	12940	16990	32910	60900
		W	med	4590	7700	10550	11900	14570	28920	54290
		W	min	4100	6190	8760	9330	11300	24640	46660
	Water flow	l/h	max	657	1211	1579	1819	2248	4771	8676
	Water pressure drop	kPa	max	18,70	32,00	29,00	28,80	33,20	27,70	29,30
HEATING Air temp.: 20°C Inlet water temp.: 70/60°C	Heating capacity	W	max	8560	14480	19100	21780	28880	55150	102290
		W	med	7810	12950	17900	20000	24720	48390	91090
		W	min	6960	10390	14720	15650	19110	41180	78170
	Water flow	l/h	max	752	1272	1678	1913	2537	4845	8984
	Water pressure drop	kPa	max	21,80	31,80	28,90	28,40	38,80	25,60	27,80
FURTHER DATA	Electric heater capacity	W (1°)	-	3000	6000	6000	9000	9000	12000	18000
		W (2°)	-	4500	9000	9000	12000	12000	18000	24000
	Air flow	m³/h	max	895	1424	1951	2131	3000	4678	9236
		m³/h	med	790	1340	1775	1888	2394	6945	7885
		m³/h	min	677	898	1346	1350	1675	3197	6449
	Sound power level	dB(A)	max	68	66	70	69	75	78	81
		dB(A)	med	67	62	68	65	69	73	76
		dB(A)	min	63	55	61	58	62	69	71
	Sound pressure level	dB(A)	max	59,4	57,4	61,4	60,4	66,4	69,4	72,4
		dB(A)	med	58,4	53,4	59,4	56,4	60,4	64,4	67,4
		dB(A)	min	54,4	46,4	52,4	49,4	53,4	60,4	62,4
	Power input	W	max	160	240	320	340	580	1.320	2.600
	Absorbed current	A	max	0,72	0,97	1,43	1,51	2,58	5,86	11,54
	Water content	L	-	1,36	2,18	2,63	3,25	3,79	9,38	14,44
4 pipe system (Standard + auxiliary)										
COOLING Inlet water temp.: 7 °C Outlet water temp.: 12°C Inlet air temp.: 27°C d.b.-19°C w.b.	Total cooling capacity	W	max	3600	7000	9010	9570	13630	24950	45550
		W	med	3440	6310	6980	8870	10940	22130	40910
		W	min	3130	5130	5810	7030	9060	19070	35520
	Sensible cooling capacity	W	max	3100	5640	7590	8040	10800	20150	37750
		W	med	2930	5000	6750	7450	8350	17630	33460
		W	min	2660	4020	5420	5760	6820	14990	28680
	Water flow	l/h	max	618	1202	1547	1643	2338	4282	7818
	Water pressure drop	kPa	max	23,50	37,80	39,10	29,20	37,00	27,00	32,00
HEATING Air temp.: 20°C Inlet water temp.: 70/60°C	Heating capacity	W	max	4180	7010	9160	10600	12650	38850	70150
		W	med	3980	6270	8670	9930	10350	34840	63600
		W	min	3610	5040	7660	8230	8660	30500	56100
	Water flow	l/h	max	367	615	805	931	1111	3412	6161
	Water pressure drop	kPa	max	26,80	23,00	31,30	21,70	28,40	22,20	24,70
FURTHER DATA	Air flow	m³/h	max	795	1353	1850	2025	3086	4445	8788
		m³/h	med	740	1153	1684	1795	2131	3748	7496
		m³/h	min	644	853	1280	1282	1614	3054	6128
	Sound power level	dB(A)	max	69	66	70	70	73	78	81
		dB(A)	med	67	62	68	66	68	73	76
		dB(A)	min	63	55	61	59	61	69	71
	Sound pressure level	dB(A)	max	60,4	57,4	61,4	61,4	64,4	69,4	72,4
		dB(A)	med	58,4	53,4	59,4	57,4	59,4	64,4	67,4
		dB(A)	min	54,4	46,4	52,4	50,4	52,4	60,4	62,4
	Power input	W	max	160	220	320	340	580	1.320	2.600
	Absorbed current	A	max	0,72	0,97	1,43	1,51	2,58	5,86	11,54
	Water content (cooling)	L	-	1,36	2,18	2,63	3,25	3,79	9.38	14,44
	Water content (heating)	L	-	0,45	0,73	0,88	1,08	1,26	4,69	7,22

- Standard unit with free outlet: external static pressure = 0 Pa
- Sound power level: ISO 23741
- Sound pressure level: 8,6 dB(A) lower that the sound power level for a room of 90 m³ with a reverberation time of 0,5 sec.

UTC 60/70: MINIMUM STATIC PRESSURE 60Pa

UTV

TECHNICAL DATA

2 pipe system (standard coil)

				10	20	30	40	50	60	70
COOLING Inlet water temp.: 7 °C Outlet water temp.: 12°C Inlet air temp.: 27°C d.b.-19°C w.b.	Total cooling capacity	W	max	3830	7050	9200	10600	13100	27800	50550
		W	med	3530	6360	8670	9810	11330	24680	45460
		W	min	3190	5180	7230	7810	8910	21290	39530
	Sensible cooling capacity	W	max	3050	5640	7360	8630	11000	21000	39460
		W	med	2800	5030	6940	7890	9400	18480	35030
		W	min	2490	3990	5640	6110	7200	15730	30100
	Water flow	l/h	max	657	1211	1579	1530	2248	4771	8676
	Water pressure drop	kPa	max	23,00	32,00	29,00	34,30	33,20	34,00	36,00
HEATING Air temp.: 20°C Inlet water temp.: 50°C	Heating capacity	W	max	5020	8610	11330	12940	16990	32910	60900
		W	med	4590	7700	10550	11900	14570	28920	54290
		W	min	4100	6190	8760	9330	11300	24640	46660
	Water flow	l/h	max	657	1211	1579	1819	2248	4771	8676
	Water pressure drop	kPa	max	18,70	32,00	29,00	28,80	33,20	27,70	29,30
HEATING Air temp.: 20°C Inlet water temp.: 70/60°C	Heating capacity	W	max	8560	14480	19100	21780	28880	55150	102290
		W	med	7810	12950	17900	20000	24720	48390	91090
		W	min	6960	10390	14720	15650	19110	41180	78170
	Water flow	l/h	max	752	1272	1678	1913	2537	4845	8984
	Water pressure drop	kPa	max	21,80	31,80	28,90	28,40	38,80	25,60	27,80
FURTHER DATA	Electric heater capacity	W (1°)	-	3000	6000	6000	9000	9000	12000	18000
		W (2°)	-	4500	9000	9000	12000	12000	18000	24000
	Air flow	m^3/h	max	895	1424	1951	2131	3000	4678	9236
		m^3/h	med	790	1340	1775	1888	2394	6945	7885
		m^3/h	min	677	898	1346	1350	1675	3197	6449
	Sound power level	dB(A)	max	68	66	70	69	75	78	81
		dB(A)	med	67	62	68	65	69	73	76
		dB(A)	min	63	55	61	58	62	69	71
	Sound pressure level	dB(A)	max	59,4	57,4	61,4	60,4	66,4	69,4	72,4
		dB(A)	med	58,4	53,4	59,4	56,4	60,4	64,4	67,4
		dB(A)	min	54,4	46,4	52,4	49,4	53,4	60,4	62,4
	Power input	W	max	160	240	320	340	580	1320	2600
	Absorbed current	A	max	0,72	0,97	1,43	1,51	2,58	5,86	11,54
	Water content	L	-	1,36	2,18	2,63	3,25	3,79	9,38	14,44

4 pipe system (Standard + auxiliary coil)

				10	20	30	40	50	60	70
COOLING Inlet water temp.: 7 °C Outlet water temp.: 12°C Inlet air temp.: 27°C d.b.-19°C w.b.	Total cooling capacity	W	max	3600	7000	9010	9570	13630	24950	45550
		W	med	3440	6310	6980	8870	10940	22130	40910
		W	min	3130	5130	5810	7030	9060	19070	35520
	Sensible cooling capacity	W	max	3100	5640	7590	8040	10800	20150	37750
		W	med	2930	5000	6750	7450	8350	17630	33460
		W	min	2660	4020	5420	5760	6820	14990	28680
	Water flow	l/h	max	618	1202	1547	1643	2338	4282	7818
	Water pressure drop	kPa	max	23,50	37,80	39,10	29,20	37,00	27,00	32,00
HEATING Air temp.: 20°C Inlet water temp.: 70/60°C	Heating capacity	W	max	4180	7010	9160	10600	12650	38850	70150
		W	med	3980	6270	8670	9930	10350	34840	63600
		W	min	3610	5040	7660	8230	8660	30500	56100
	Water flow	l/h	max	367	615	805	931	1111	3412	6161
	Water pressure drop	kPa	max	26,80	23,00	31,30	21,70	28,40	22,20	24,70
FURTHER DATA	Air flow	m^3/h	max	795	1353	1850	2025	3086	4445	8788
		m^3/h	med	740	1153	1684	1795	2131	3748	7496
		m^3/h	min	644	853	1280	1282	1614	3054	6128
	Sound power level	dB(A)	max	69	66	70	70	73	78	81
		dB(A)	med	67	62	68	66	68	73	76
		dB(A)	min	63	55	61	59	61	69	71
	Sound pressure level	dB(A)	max	60,4	57,4	61,4	61,4	64,4	69,4	72,4
		dB(A)	med	58,4	53,4	59,4	57,4	59,4	64,4	67,4
		dB(A)	min	54,4	46,4	52,4	50,4	52,4	60,4	62,4
	Power input	W	max	160	220	320	340	580	1320	2600
	Absorbed current	A	max	0,72	0,97	1,43	1,51	2,58	5,86	11,54
	Water content (cooling)	L	-	1,36	2,18	2,63	3,25	3,79	9.38	14,44
	Water content (heating)	L	-	0,45	0,73	0,88	1,08	1,26	4,69	7,22

- Standard unit with free outlet: external static pressure = 0 Pa
- Sound power level: ISO 23741
- Sound pressure level: 8,6 dB(A) lower that the sound power level for a room of 90 m^3 with a reverberation time of 0,5 sec.

UTV 60/70: MINIMUM STATIC PRESSURE 60Pa

				No Eurovent certified						
UTC				**10**	**20**	**30**	**40**	**50**	**60**	**70**
UTV				**10**	**20**	**30**	**40**	**50**		
Maximum external static pressure (Pa) reducing unit performance of 50%.										
2 pipe system	Pa	max		105	105	135	135	205	260	260
	Pa	med		95	95	130	130	180	240	240
	Pa	min		90	80	115	105	135	220	220
4 pipe system	Pa	max		95	90	120	120	180	220	220
	Pa	med		85	80	115	115	155	210	210
	Pa	min		75	70	95	90	110	180	180
Minimum air pressure loss necessary to ensure the correct functioning of the units.										
Minimum air pressure loss			Pa	0	0	0	0	0	60	60

UTC				**10**	**20**	**30**	**40**	**50**	**60**	**70**
Fans - Motors			n°	1 - 1	2 - 1	2 - 1	2 - 1	2 - 1	1 - 1	2 - 2
Standard coil	Rows		n°	3	3	3	3	3	4	4
	Fittings	(ØAF)	Ø	1/2"	1/2"	3/4"	3/4"	1"	1" 1/*4	1" 1/2
Auxiliary coil	Rows		n°	1	1	1	1	1	2	2
	Fittings	(ØAF)	Ø	1/2"	1/2"	1/2"	3/4"	3/4"	1"	1" 1/4
Condansate drain fitting		(ØC)	Ø mm	20	20	20	20	20	20	20
External dimensions	Height	H	mm	300	300	325	325	375	675	675
	Lenght	L	mm	650	1.000	1.100	1.340	1.340	1.341	2.028
	Depth	P	mm	533	533	533	533	533	853	853
	Intake	A	mm	197	197	222	222	272	572	572
	Supply	M	mm	197	197	222	222	272	390 *	390 *
		B	mm	548	898	998	1.238	1.238	1.238	1.926
N. x Ø BAM			mm	2xØ200	3xØ200	3xØ200	4xØ200	4xØ200	2xØ400	4xØ400
Net weight			kg	28	36	41	46	57	117	192

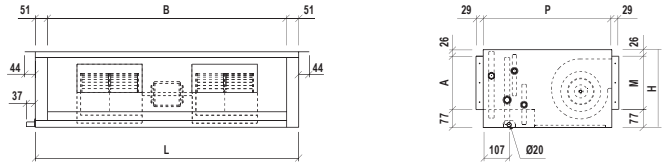
* On request: supply dimension as intake dimension.

UTV				**10**	**20**	**30**	**40**	**50**	**60**	**70**
Fans - Motors			n°	1 - 1	2 - 1	2 - 1	2 - 1	2 - 1	1 - 1	2 - 2
Standard coil	Rows		n°	3	3	3	3	3	4	4
	Fittings	(ØAF)	Ø	1/2"	1/2"	3/4"	3/4"	1"	1" 1/4	1" 1/2
Auxiliary coil	Rows		n°	1	1	1	1	1	2	2
	Fittings	(ØAF)	Ø	1/2"	1/2"	1/2"	1/2"	3/4"	1"	1" 1/4
Condansate drain fitting		(ØC)	Ø mm	20	20	20	20	20	20	20
External dimensions	Height	H	mm	603	603	623	623	723	1294	1294
	Lenght	L	mm	738	1.088	1.188	1.428	1.428	1481	2168
	Depth	P	mm	330	330	355	355	405	703	703
	Intake	A	mm	197	197	222	222	273	573	573
	Supply	M	mm	197	197	222	222	272	392 *	392 *
		B	mm	548	898	998	1238	1238	1238	1296
		C	mm	300	300	325	325	375	675	675
N. x Ø BAM			mm	2xØ200	3xØ200	3xØ200	4xØ200	4xØ200	2xØ400	4xØ400
Net weight			kg	28	36	41	46	57	117	192

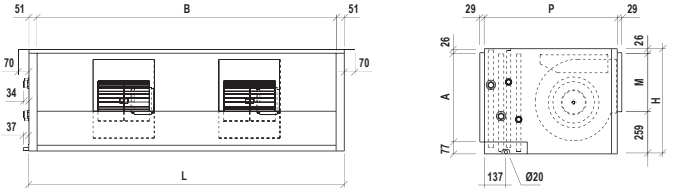
* On request: supply dimension as intake dimension.

GENERAL DIMENSION

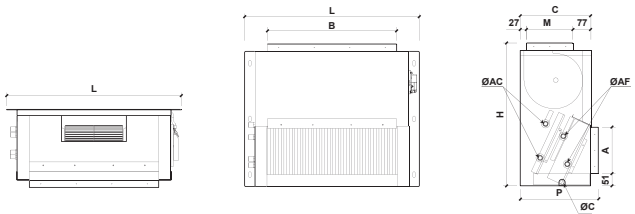
UTC 10-50
(picture: mod. 20)



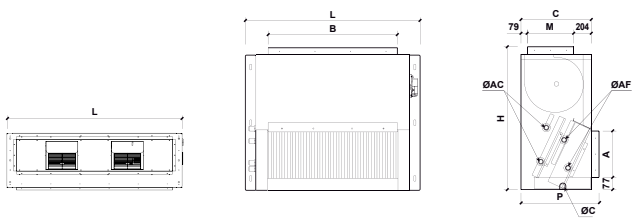
UTC 60-70
(picture: mod. 70)



UTV 10-50
(picture: mod. 20)



UTV 60-70
(picture: mod. 70)



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