

serie  
**UTC**

» **TECHNICAL MANUAL**



ISO 9001:2000 - Cert. n. 1368/1

**ventilclima**®  
Apparecchi per la Climatizzazione

**DUCTABLE AIR TREATMENT UNIT**

MU UTC 0905-0 VEN GB

## TECHNICAL MANUAL

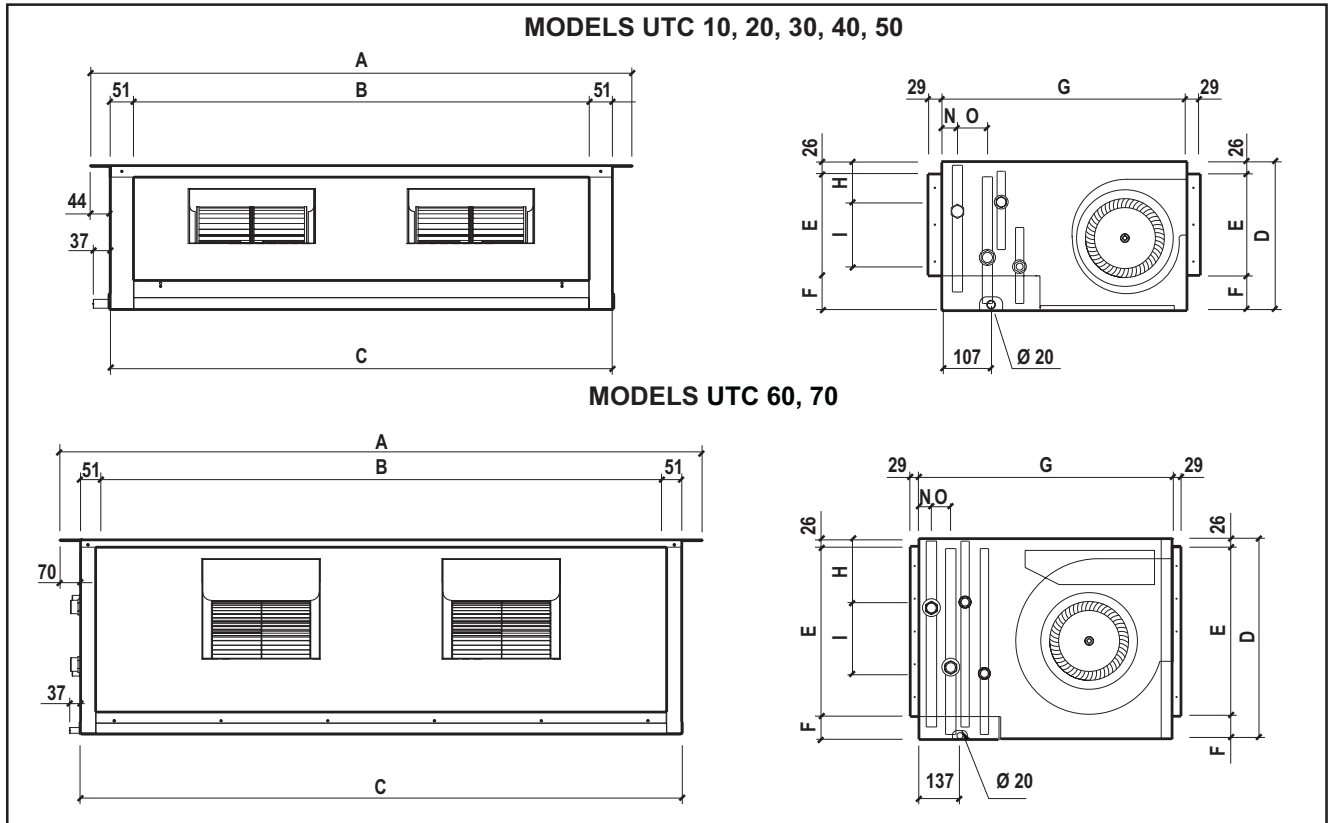
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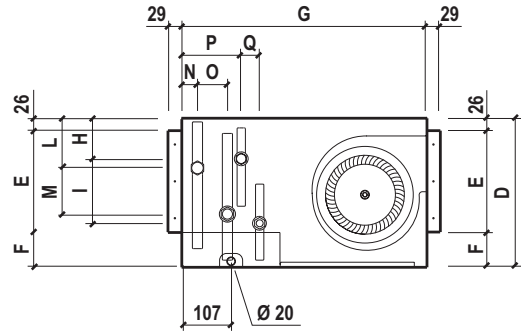
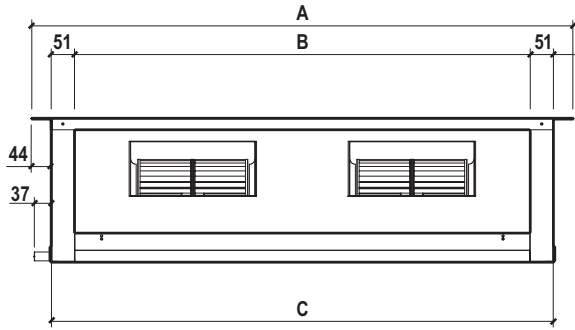
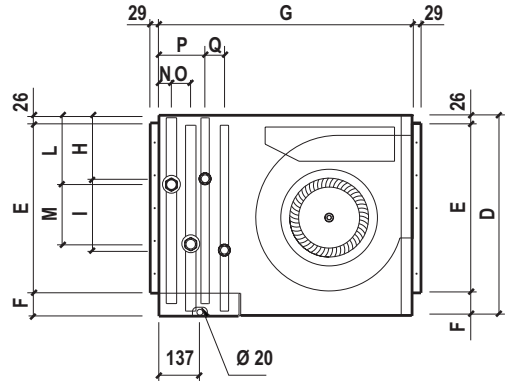
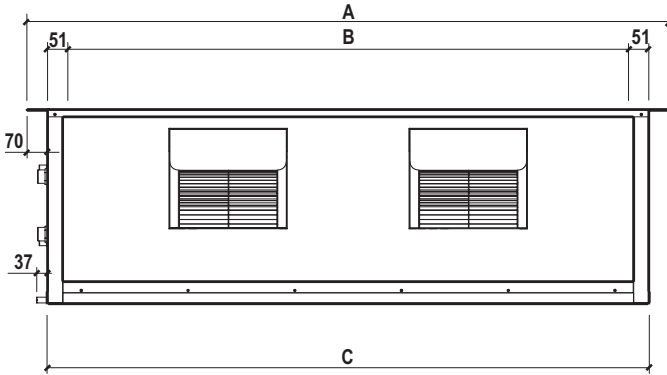
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### GENERAL DIMENSIONS OF DUCTABLE AIR TREATMENT UNITS - 2 PIPE SYSTEM

MODELS		UTC10	UTC20	UTC30	UTC40	UTC50	UTC60	UTC70
Coil used for both cooling and heating	Fan-motor number	n°	1 - 1	2 - 1	2 - 1	2 - 1	1 - 1	2 - 2
	Rows number	n°	3	3	3	3	4	4
	Finned pack length	mm	523	873	973	1.213	1.213	1.900
	Number of pipe per row	n°	11	11	12	12	14	26
	Fin spacing	mm	2,1	2,1	2,1	2,1	2,1	2,1
	Number of feeding circuits	n°	3	4	5	6	8	16
	Shape	mm x mm	25 x 22	25 x 22	25 x 22	25 x 22	25 x 22	25 x 22
	Finned pack depth	mm	66	66	66	66	66	88
	Frontal surface	m <sup>2</sup>	0,144	0,240	0,292	0,364	0,425	0,788
	Total surface of fins	m <sup>2</sup>	8,128	13,567	16,495	20,564	23,991	59,407
Water contents	L	1,36	2,18	2,63	3,25	3,79	9,38	
Hydraulic connections (Ø male gas)	Ø	1/2"	1/2"	3/4"	3/4"	1"	1" 1/4	
Unit general features	A	mm	738	1.088	1.188	1.428	1.428	1.481
	B	mm	548	898	998	1.238	1.238	1.239
	C	mm	650	1.000	1.100	1.340	1.340	1.341
	D	mm	300	300	325	325	375	675
	E	mm	200	200	225	225	275	575
	F	mm	75	75	75	75	75	75
	G	mm	533	533	533	533	533	852
	H	mm	96	96	107	107	133	235
	I	mm	100	100	100	100	100	200
	N	mm	35	35	35	35	35	43
	O	mm	65	65	65	65	65	65
	Net weight	kg	28	36	41	46	57	117

**MODELS UTC 10, 20, 30, 40, 50**

**MODELS UTC 60, 70**

**GENERAL DIMENSIONS OF DUCTABLE AIR TREATMENT UNITS - 4 PIPE SYSTEM**

MODEL		UTC10	UTC20	UTC30	UTC40	UTC50	UTC60	UTC70	
Coil used for cooling	Fan-motor number	n°	1 - 1	2 - 1	2 - 1	2 - 1	2 - 1	1 - 1	2 - 2
	Rows number	n°	3	3	3	3	3	4	4
	Finned pack length	mm	523	873	973	1.213	1.213	1.213	1.900
	Number of pipe for row	n°	11	11	12	12	14	26	26
	Fin spacing	mm	2	2	2	2	2	2	2
	Number of feeding circuits	n°	3	4	5	6	8	16	26
	Shape	mm x mm	25 x 22	25 x 22	25 x 22	25 x 22	25 x 22	25 x 22	25 x 22
	Finned pack depth	mm	66	66	66	66	66	88	88
	Frontal surface	m <sup>2</sup>	0,144	0,240	0,292	0,364	0,425	0,788	1,235
	Total surface of fins	m <sup>2</sup>	8,128	13,567	16,495	20,564	23,991	59,407	93,053
	Water contents	L	1,36	2,18	2,63	3,25	3,79	9,38	14,44
	Hydraulic connections (Ø male gas)	Ø	1/2"	1/2"	3/4"	3/4"	1"	1" 1/4	1" 1/2
Coil used for heating	Rows number	n°	1	1	1	1	2	2	
	Finned pack length	mm	523	873	973	1.213	1.213	1.213	1.900
	Number of pipe for row	n°	11	11	12	12	14	26	26
	Fin spacing	mm	2,1	2,1	2,1	2,1	2,1	2,1	2,1
	Number of feeding circuits	n°	1	2	2	3	3	10	16
	Shape	mm x mm	25 x 25	25 x 25	25 x 25	25 x 25	25 x 25	25 x 25	25 x 25
	Finned pack depth	mm	25	25	25	25	25	25	25
	Frontal surface	m <sup>2</sup>	0,144	0,240	0,292	0,364	0,425	0,788	1,235
	Total surface of fins	m <sup>2</sup>	2,709	4,522	5,498	6,855	7,997	29,704	46,527
	Water contents	L	0,45	0,73	0,88	1,08	1,26	4,69	7,22
	Hydraulic connections (Ø male gas)	Ø	1/2"	1/2"	1/2"	1/2"	3/4"	1"	1" 1/4
	Unit general features	A	mm	738	1.088	1.188	1.428	1.428	1.481
B		mm	548	898	998	1.238	1.238	1.239	1.926
C		mm	650	1.000	1.100	1.340	1.340	1.341	2.028
D		mm	300	300	325	325	375	675	675
E		mm	232	232	232	232	275	575	575
F		mm	41	41	65	65	75	75	75
G		mm	533	533	533	533	533	852	852
H		mm	96	96	107	107	133	235	235
I		mm	100	100	100	100	100	200	200
L		mm	75	75	87	87	113	213	213
M		mm	140	140	140	140	140	240	240
N		mm	35	35	35	35	35	42	42
O		mm	95	95	95	95	95	114	114
P		mm	35	35	35	35	32	43	43
Q		mm	40	40	40	40	40	65	65
Net weight		kg	30	38	44	49	61	130	210

## GENERAL TECHNICAL DATA - 2 PIPE SYSTEM

MODEL			UTC10	UTC20	UTC30	UTC40	UTC50	UTC60	UTC70
<b>A</b>	Total cooling capacity	W	4.008	7.046	9.198	10.599	13.091	27.812	50.638
		Frig/h	3.455	6.074	7.930	9.137	11.285	23.976	43.653
	Sensible cooling capacity	W	3.248	5.639	7.361	8.627	11.023	21.134	39.504
		Frig/h	2.800	4.861	6.346	7.437	9.503	18.219	34.055
<b>C</b>	Heating capacity	W	4.972	8.512	11.210	12.800	16.818	32.430	60.111
		kcal/h	4.286	7.338	9.664	11.034	14.498	27.957	51.820
<b>A-C</b>	Water flow	l/h	691	1.215	1.586	1.827	2.257	4.795	8.731
		l/s	0,192	0,337	0,441	0,508	0,627	1,332	2,425
<b>A</b>	Water pressure drops in cooling	kPa	20	31	34	32	36	34	40
		m.C.A.	2,0	3,1	3,4	3,2	3,6	3,4	4,0
<b>C</b>	Water pressure drops in heating	kPa	17	27	29	28	31	29	34
		m.C.A.	1,7	2,7	2,9	2,8	3,1	2,9	3,4
<b>B</b>	Heating capacity	W	8.318	14.197	18.716	21.349	28.252	53.880	100.066
		kcal/h	7.171	12.239	16.134	18.404	24.355	46.448	86.264
	Water flow	l/h	717	1.224	1.613	1.840	2.436	4.645	8.626
		l/s	0,199	0,340	0,448	0,511	0,677	1,290	2,396
	Water pressure drops in heating	kPa	16	24	27	25	32	24	30
		m.C.A.	1,6	2,4	2,7	2,5	3,2	2,4	3,0
<b>D</b>	Electric heater heating capacity	W	3.000	6.000	6.000	9.000	9.000	12.000	18.000
		kcal/h	2.586	5.172	5.172	7.759	7.759	10.345	15.517
	Electric heater input current	A	4,56	9,12	9,12	13,67	13,67	18,23	27,35
<b>E</b>	Electric heater heating capacity	W	4.500	9.000	9.000	12.000	12.000	18.000	24.000
		kcal/h	3.879	7.759	7.759	10.345	10.345	15.517	20.690
	Electric heater input current	A	6,84	13,67	13,67	18,23	18,23	27,35	36,46
<b>F</b>	Air flow	m <sup>3</sup> /h	837	1.423	1.951	2.131	3.002	4.678	9.250
		m <sup>3</sup> /s	0,233	0,395	0,542	0,592	0,834	1,299	2,569
	Fan speed	g/min	1.360	1.360	1.200	1.207	1.382	806	822
<b>G</b>	Sound power level	dB(A)	68	69	70	69	74	78	81
<b>H</b>	Motor electric power	W	162	218	322	340	582	1.320	2.600
	Motor electric input	A	0,72	0,97	1,43	1,51	2,58	5,86	11,54

Electrical supply: 230V / 1 / 50Hz

**EUROVENT** certified performances – above mentioned technical data are calculate at the following operating conditions:

- Maximum fan speed
- Standard unit without ducts ( fancoil operating without external back pressure )
- (A) Cooling: Entering water temperature **7°C**; leaving water temperature 12°C; entering air temperature 27°C w.b. 19°C d.b.
- (B) Heating: Entering water temperature **70°C**; leaving water temperature 60°C; entering air temperature 20°C.
- (C) Heating: Entering water temperature **50°C**; same water flow as in cooling; entering air temperature 20°C.
- (D) Electric heaters section SRE - B: Electric heaters capacities, Lower speed cabling ( **SRE - B** supplied as accessory only )
- (E) Electric heaters section SRE - A: Electric heaters capacities, High speed cabling ( **SRE - A** supplied as accessory only )
- (F) Air flow and fan speed: Fancoil performances with cleaned filter.
- (G) Sound Power level: Sound power measured following ISO 23741.
- (H) Electrical data referred to the maximum speed.

## CORRECTIVE COEFFICIENT FOR THE DIFFERENT AVAILABLE SPEEDS - 2 PIPE SYSTEM

MODEL			UTC10	UTC20	UTC30	UTC40	UTC50	UTC60	UTC70
Total cooling capacity	1	0,87 <sup>min</sup>	0,74 <sup>min</sup>	0,79 <sup>min</sup>	0,74 <sup>min</sup>	0,68 <sup>min</sup>	0,77 <sup>min</sup>	0,78 <sup>min</sup>	0,90 <sup>med</sup>
	2	0,95 <sup>med</sup>	0,90 <sup>med</sup>	0,94 <sup>med</sup>	0,93 <sup>med</sup>	0,87 <sup>med</sup>	0,89 <sup>med</sup>	0,89 <sup>med</sup>	0,90 <sup>med</sup>
	3	0,98	0,96	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>
	4	1,00 <sup>max</sup>	1,00 <sup>max</sup>	-	-	-	-	-	-
Sensible cooling capacity	1	0,86 <sup>min</sup>	0,71 <sup>min</sup>	0,77 <sup>min</sup>	0,71 <sup>min</sup>	0,65 <sup>min</sup>	0,75 <sup>min</sup>	0,76 <sup>min</sup>	0,89 <sup>med</sup>
	2	0,95 <sup>med</sup>	0,89 <sup>med</sup>	0,94 <sup>med</sup>	0,91 <sup>med</sup>	0,85 <sup>med</sup>	0,88 <sup>med</sup>	0,88 <sup>med</sup>	0,89 <sup>med</sup>
	3	0,98	0,95	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>
	4	1,00 <sup>max</sup>	1,00 <sup>max</sup>	-	-	-	-	-	-
Heating capacity	1	0,86 <sup>min</sup>	0,72 <sup>min</sup>	0,77 <sup>min</sup>	0,72 <sup>min</sup>	0,67 <sup>min</sup>	0,75 <sup>min</sup>	0,77 <sup>min</sup>	0,89 <sup>med</sup>
	2	0,95 <sup>med</sup>	0,90 <sup>med</sup>	0,94 <sup>med</sup>	0,92 <sup>med</sup>	0,86 <sup>med</sup>	0,88 <sup>med</sup>	0,88 <sup>med</sup>	0,89 <sup>med</sup>
	3	0,98	0,96	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>
	4	1,00 <sup>max</sup>	1,00 <sup>max</sup>	-	-	-	-	-	-
Air flow	1	0,81 <sup>min</sup>	0,63 <sup>min</sup>	0,69 <sup>min</sup>	0,63 <sup>min</sup>	0,56 <sup>min</sup>	0,69 <sup>min</sup>	0,70 <sup>min</sup>	0,85 <sup>med</sup>
	2	0,93 <sup>med</sup>	0,85 <sup>med</sup>	0,91 <sup>med</sup>	0,89 <sup>med</sup>	0,80 <sup>med</sup>	0,84 <sup>med</sup>	0,85 <sup>med</sup>	0,85 <sup>med</sup>
	3	0,97	0,94	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>
	4	1,00 <sup>max</sup>	1,00 <sup>max</sup>	-	-	-	-	-	-

The value indicated with min, med, .max, concern the 3 standard speeds set at the factory.

NOTE: the symbol (-) means that for UTC 30, 40, 50, 60, 70 models only 3 fan speeds are available. For UTC 10 and UTC 20 models, upon customer request other 3 speeds among the 4 available speeds can be connected.

## GENERAL TECHNICAL DATA - 2 PIPE SYSTEM - 4R COIL

MODEL			UTC10	UTC20	UTC30	UTC40	UTC50	UTC60	UTC70
A	Total cooling capacity	W	4.398	7.591	10.108	11.664	15.311	-	-
		Frig/h	3.791	6.544	8.713	10.055	13.199	-	-
	Sensible cooling capacity	W	3.387	5.769	7.783	8.748	11.790	-	-
		Frig/h	2.919	4.973	6.709	7.541	10.163	-	-
C	Heating capacity	W	5.684	9.674	12.886	14.619	19.545	-	-
		kcal/h	4.900	8.340	11.108	12.603	16.849	-	-
A-C	Water flow	l/h	758	1.309	1.743	2.011	2.640	-	-
		l/s	0.211	0.364	0.484	0.559	0.733	-	-
A	Water pressure drops in cooling	kPa	17	21	26	28	31	-	-
		m.C.A.	1,7	2,2	2,7	2,8	3,1	-	-
C	Water pressure drops in heating	kPa	15	18	22	24	26	-	-
		m.C.A.	1,5	1,8	2,3	2,4	2,6	-	-
B	Heating capacity	W	9.555	16.236	21.626	24.486	32.808	-	-
		kcal/h	8.237	13.997	18.643	21.109	28.282	-	-
	Water flow	l/h	842	1.431	1.906	2.158	2.892	-	-
		l/s	0.234	0.398	0.530	0.600	0.803	-	-
	Water pressure drops in heating	kPa	16	19	24	24	28	-	-
		m.C.A.	1.6	2.0	2.4	2.5	2.8	-	-
D	Air flow	m <sup>3</sup> /h	795	1.352	1.854	2.025	2.852	-	-
		m <sup>3</sup> /s	0,221	0,376	0,515	0,563	0,792	-	-
	Fan speeds	g/min	1.365	1.365	1.205	1.214	1.387	-	-
E	Sound power level	dB(A)	68	69	70	70	73	-	-
F	Motor electrical power	W	162	218	322	340	582	-	-
	Motor electrical input	A	0,72	0,97	1,43	1,51	2,58	-	-

Electrical supply: 230V / 1 / 50Hz

EUROVENT certified performances – above mentioned technical data are calculate at the following operating conditions:

- Maximum fan speed
- Standard unit without ducts ( fancoil operating without external back pressure )
- (A) Cooling: Entering water temperature **7°C**; leaving water temperature 12°C; entering air temperature 27°C w.b. 19°C d.b.
- (B) Heating: Entering water temperature **70°C**; leaving water temperature 60°C; entering air temperature 20°C.
- (C) Heating: Entering water temperature **50°C**; same water flow as in cooling; entering air temperature 20°C.
- (D) Air flow and fan speed: Fancoil performances with cleaned filter.
- (E) Sound Power level: Sound power measured following ISO 23741.
- (F) Electrical data referred to the maximum speed.

## CORRECTIVE COEFFICIENT FOR THE DIFFERENT AVAILABLE SPEEDS - 2 PIPE SYSTEM - 4R COIL

MODEL			UTC10	UTC20	UTC30	UTC40	UTC50	UTC60	UTC70
Total cooling capacity	1		0,86 <sup>min</sup>	0,71 <sup>min</sup>	0,77 <sup>min</sup>	0,72 <sup>min</sup>	0,66 <sup>min</sup>	-	-
	2		0,95 <sup>med</sup>	0,89 <sup>med</sup>	0,94 <sup>med</sup>	0,92 <sup>med</sup>	0,86 <sup>med</sup>	-	-
	3		0,98	0,96	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>	-	-
	4		1,00 <sup>max</sup>	1,00 <sup>max</sup>	-	-	-	-	-
Sensible cooling capacity	1		0,85 <sup>min</sup>	0,69 <sup>min</sup>	0,75 <sup>min</sup>	0,70 <sup>min</sup>	0,63 <sup>min</sup>	-	-
	2		0,95 <sup>med</sup>	0,88 <sup>med</sup>	0,92 <sup>med</sup>	0,92 <sup>med</sup>	0,84 <sup>med</sup>	-	-
	3		0,98	0,96	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>	-	-
	4		1,00 <sup>max</sup>	1,00 <sup>max</sup>	-	-	-	-	-
Heating capacity	1		0,85 <sup>min</sup>	0,70 <sup>min</sup>	0,75 <sup>min</sup>	0,70 <sup>min</sup>	0,64 <sup>min</sup>	-	-
	2		0,95 <sup>med</sup>	0,89 <sup>med</sup>	0,93 <sup>med</sup>	0,91 <sup>med</sup>	0,85 <sup>med</sup>	-	-
	3		0,98	0,95	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>	-	-
	4		1,00 <sup>max</sup>	1,00 <sup>max</sup>	-	-	-	-	-
Air flow	1		0,81 <sup>min</sup>	0,63 <sup>min</sup>	0,69 <sup>min</sup>	0,63 <sup>min</sup>	0,56 <sup>min</sup>	-	-
	2		0,93 <sup>med</sup>	0,85 <sup>med</sup>	0,91 <sup>med</sup>	0,89 <sup>med</sup>	0,80 <sup>med</sup>	-	-
	3		0,97	0,94	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>	-	-
	4		1,00 <sup>max</sup>	1,00 <sup>max</sup>	-	-	-	-	-

The value indicated with min, med, .max, concern the 3 standard speeds set at the factory.

NOTE: the symbol (-) means that for UTC 30, 40, 50, 60, 70 models only 3 fan speeds are available. For UTC 10 and UTC 20 models, upon customer request other 3 speeds among the 4 available speeds can be connected.

## GENERAL TECHNICAL DATA - 2 PIPE SYSTEM - 6R COIL

MODEL			UTC10	UTC20	UTC30	UTC40	UTC50	UTC60	UTC70
A	Total cooling capacity	W	5.426	9.174	12.296	14.474	19.545	32.533	61.167
		Frig/h	4.678	7.909	10.600	12.478	16.849	28.046	52.730
	Sensible cooling capacity	W	3.961	6.697	9.099	10.422	14.072	23.424	44.652
		Frig/h	3.415	5.774	7.844	8.984	12.131	20.193	38.493
C	Heating capacity	W	6.735	11.407	15.343	17.299	23.619	38.932	74.015
		kcal/h	5.806	9.834	13.227	14.913	20.361	33.562	63.806
A-C	Water flow	l/h	936	1.582	2.120	2.496	3.370	5.609	10.546
		l/s	0,260	0,439	0,589	0,693	0,936	1,558	2,929
A	Water pressure drops in cooling	kPa	12	12	13	19	26	21	30
		m.C.A.	1,2	1,2	1,3	1,9	2,6	2,1	3,1
C	Water pressure drops in heating	kPa	10	10	11	16	22	18	26
		m.C.A.	1,1	1,0	1,1	1,6	2,2	1,8	2,6
B	Heating capacity	W	11.268	19.089	25.686	28.819	39.395	64.867	123.473
		kcal/h	9.714	16.456	22.143	24.844	33.962	55.919	106.442
	Water flow	l/h	993	1.683	2.264	2.540	3.473	5.718	10.884
		l/s	0,276	0,467	0,629	0,706	0,965	1,588	3,023
	Water pressure drops in heating	kPa	10	10	11	15	21	17	25
		m.C.A.	1,1	1,0	1,2	1,5	2,1	1,7	2,5
D	Air flow	m³/h	770	1.309	1.795	1.961	2.762	4.444	8.788
		m³/s	0,214	0,364	0,499	0,545	0,767	1,234	2,441
	Fan speeds	g/min	1.368	1.368	1.207	1.218	1.390	810	832
E	Sound power level	dB(A)	68	69	70	70	74	78	81
F	Motor electrical power	W	162	218	322	340	582	1.320	2.600
	Motor electrical input	A	0,72	0,97	1,43	1,51	2,58	5,86	11,54

Electrical supply: 230V / 1 / 50Hz

EEUROVENT certified performances – above mentioned technical data are calculate at the following operating conditions:

- Maximum fan speed
- Standard unit without ducts ( fancoil operating without external back pressure )
- (A) Cooling: Entering water temperature **7°C**; leaving water temperature 12°C; entering air temperature 27°C w.b. 19°C d.b.
- (B) Heating: Entering water temperature **70°C**; leaving water temperature 60°C; entering air temperature 20°C.
- (C) Heating: Entering water temperature **50°C**; same water flow as in cooling; entering air temperature 20°C.
- (D) Air flow and fan speed: Fancoil performances with cleaned filter.
- (E) Sound Power level: Sound power measured following ISO 23741.
- (F) Electrical data referred to the maximum speed.

## CORRECTIVE COEFFICIENT FOR THE DIFFERENT AVAILABLE SPEEDS - 2 PIPE SYSTEM - 6R COIL

MODEL		UTC10	UTC20	UTC30	UTC40	UTC50	UTC60	UTC70
Total cooling capacity	1	0,84 <sup>min</sup>	0,66 <sup>min</sup>	0,74 <sup>min</sup>	0,69 <sup>min</sup>	0,63 <sup>min</sup>	0,74 <sup>min</sup>	0,76 <sup>min</sup>
	2	0,94 <sup>med</sup>	0,87 <sup>med</sup>	0,93 <sup>med</sup>	0,91 <sup>med</sup>	0,84 <sup>med</sup>	0,87 <sup>med</sup>	0,89 <sup>med</sup>
	3	0,98	0,95	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>
	4	1,00 <sup>max</sup>	1,00 <sup>max</sup>	-	-	-	-	-
Sensible cooling capacity	1	0,83 <sup>min</sup>	0,65 <sup>min</sup>	0,72 <sup>min</sup>	0,67 <sup>min</sup>	0,61 <sup>min</sup>	0,72 <sup>min</sup>	0,74 <sup>min</sup>
	2	0,94 <sup>med</sup>	0,87 <sup>med</sup>	0,91 <sup>med</sup>	0,83 <sup>med</sup>	0,83 <sup>med</sup>	0,86 <sup>med</sup>	0,87 <sup>med</sup>
	3	0,98	0,95	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>
	4	1,00 <sup>max</sup>	1,00 <sup>max</sup>	-	-	-	-	-
Heating capacity	1	0,83 <sup>min</sup>	0,67 <sup>min</sup>	0,73 <sup>min</sup>	0,67 <sup>min</sup>	0,61 <sup>min</sup>	0,72 <sup>min</sup>	0,74 <sup>min</sup>
	2	0,94 <sup>med</sup>	0,87 <sup>med</sup>	0,92 <sup>med</sup>	0,90 <sup>med</sup>	0,83 <sup>med</sup>	0,86 <sup>med</sup>	0,88 <sup>med</sup>
	3	0,97	0,95	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>
	4	1,00 <sup>max</sup>	1,00 <sup>max</sup>	-	-	-	-	-
Air flow	1	0,81 <sup>min</sup>	0,63 <sup>min</sup>	0,69 <sup>min</sup>	0,63 <sup>min</sup>	0,56 <sup>min</sup>	0,69 <sup>min</sup>	0,70 <sup>min</sup>
	2	0,93 <sup>med</sup>	0,85 <sup>med</sup>	0,91 <sup>med</sup>	0,89 <sup>med</sup>	0,80 <sup>med</sup>	0,84 <sup>med</sup>	0,85 <sup>med</sup>
	3	0,97	0,94	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>
	4	1,00 <sup>max</sup>	1,00 <sup>max</sup>	-	-	-	-	-

The value indicated with min, med, .max, concern the 3 standard speeds set at the factory.

NOTE: the symbol (-) means that for UTC 30, 40, 50, 60, 70 models only 3 fan speeds are available. For UTC 10 and UTC 20 models, upon customer request other 3 speeds among the 4 available speeds can be connected.

## GENERAL TECHNICAL DATA - 4 PIPE SYSTEM

MODEL			UTC10	UTC20	UTC30	UTC40	UTC50	UTC60	UTC70
A	Total cooling capacity	W	3.604	6.348	8.286	9.545	12.258	24.989	45.563
		Frig/h	3.107	5.473	7.143	8.229	10.568	21.542	39.278
	Sensible cooling capacity	W	3.105	5.333	7.051	8.020	10.564	20.189	37.793
		Frig/h	2.677	4.598	6.079	6.914	9.107	17.404	32.580
B	Heating capacity	W	4.184	6.996	9.152	10.540	13.986	38.831	70.196
		kcal/h	3.607	6.031	7.890	9.086	12.057	33.475	60.514
A	Water flow in cooling	l/h	621	1.095	1.429	1.646	2.114	4.308	7.856
		l/s	0,173	0,304	0,397	0,457	0,587	1,197	2,182
B	Water flow in heating	l/h	361	603	789	909	1.206	3.348	6.051
		l/s	0,100	0,168	0,219	0,252	0,335	0,930	1,681
A	Water pressure drops in cooling	kPa	16	24	28	25	31	27	32
		m.C.A.	1,6	2,4	2,8	2,5	3,1	2,7	3,2
B	Water pressure drops in heating	kPa	27	23	36	21	34	33	36
		m.C.A.	2,7	2,3	3,6	2,1	3,4	3,3	3,6
C	Heating capacity	W	2.557	4.275	5.593	6.441	8.547	23.730	42.898
		kcal/h	2.204	3.686	4.822	5.553	7.368	20.457	36.981
	Water flow	l/h	446	746	976	1.124	1.492	4.141	7.486
		l/s	0,124	0,207	0,271	0,312	0,414	1,150	2,079
	Water pressure drops in heating	kPa	46	39	62	36	58	56	62
		m.C.A.	4,7	4,0	6,3	3,7	5,9	5,8	6,3
E	Air flow	m <sup>3</sup> /h	795	1.352	1.853	2.024	2.852	4.444	8788
		m <sup>3</sup> /s	0,221	0,376	0,515	0,562	0,792	1,234	2,441
	Fan speeds	g/min	1.365	1.365	1.205	1.214	1.387	810	832
F	Sound power level	dB(A)	68	69	70	70	73	78	81
G	Motor electrical power	W	162	218	322	340	582	1.320	2.600
	Motor electrical input	A	0,72	0,97	1,43	1,51	2,58	5,86	11,54

Electrical supply: 230V / 1 / 50Hz

EEUROVENT certified performances – above mentioned technical data are calculate at the following operating conditions:

- Maximum fan speed

- Standard unit without ducts ( fancoil operating without external back pressure )

(A) Cooling: Entering water temperature **7°C**; leaving water temperature 12°C; entering air temperature 27°C w.b. 19°C d.b.

(B) Heating: Entering water temperature **70°C**; leaving water temperature 60°C; entering air temperature 20°C.

(C) Heating: Entering water temperature **50°C**; same water flow as in cooling; entering air temperature 20°C.

(D) Air flow and fan speed: Fancoil performances with cleaned filter.

(E) Sound Power level: Sound power measured following ISO 23741.

(F) Electrical data referred to the maximum speed.

## CORRECTIVE COEFFICIENT FOR THE DIFFERENT SUPPLY AVAILABLE SPEEDS - 4 PIPE SYSTEM

MODEL		UTC10	UTC20	UTC30	UTC40	UTC50	UTC60	UTC70
Total cooling capacity	1	0,87 <sup>min</sup>	0,73 <sup>min</sup>	0,78 <sup>min</sup>	0,73 <sup>min</sup>	0,68 <sup>min</sup>	0,76 <sup>min</sup>	0,78 <sup>min</sup>
	2	0,96 <sup>med</sup>	0,90 <sup>med</sup>	0,94 <sup>med</sup>	0,93 <sup>med</sup>	0,86 <sup>med</sup>	0,89 <sup>med</sup>	0,90 <sup>med</sup>
	3	0,98	0,96	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>
	4	1,00 <sup>max</sup>	1,00 <sup>max</sup>	-	-	-	-	-
Sensible cooling capacity	1	0,86 <sup>min</sup>	0,71 <sup>min</sup>	0,76 <sup>min</sup>	0,72 <sup>min</sup>	0,65 <sup>min</sup>	0,74 <sup>min</sup>	0,76 <sup>min</sup>
	2	0,94 <sup>med</sup>	0,89 <sup>med</sup>	0,94 <sup>med</sup>	0,93 <sup>med</sup>	0,85 <sup>med</sup>	0,87 <sup>med</sup>	0,89 <sup>med</sup>
	3	0,98	0,96	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>
	4	1,00 <sup>max</sup>	1,00 <sup>max</sup>	-	-	-	-	-
Heating capacity	1	0,89 <sup>min</sup>	0,77 <sup>min</sup>	0,82 <sup>min</sup>	0,78 <sup>min</sup>	0,73 <sup>min</sup>	0,78 <sup>min</sup>	0,80 <sup>min</sup>
	2	0,96 <sup>med</sup>	0,92 <sup>med</sup>	0,95 <sup>med</sup>	0,94 <sup>med</sup>	0,89 <sup>med</sup>	0,90 <sup>med</sup>	0,91 <sup>med</sup>
	3	0,98	0,97	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>
	4	1,00 <sup>max</sup>	1,00 <sup>max</sup>	-	-	-	-	-
Air flow	1	0,81 <sup>min</sup>	0,63 <sup>min</sup>	0,69 <sup>min</sup>	0,63 <sup>min</sup>	0,56 <sup>min</sup>	0,69 <sup>min</sup>	0,70 <sup>min</sup>
	2	0,93 <sup>med</sup>	0,85 <sup>med</sup>	0,91 <sup>med</sup>	0,89 <sup>med</sup>	0,80 <sup>med</sup>	0,84 <sup>med</sup>	0,85 <sup>med</sup>
	3	0,97	0,94	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>	1,00 <sup>max</sup>
	4	1,00 <sup>max</sup>	1,00 <sup>max</sup>	-	-	-	-	-

The value indicated with min, med, .max, concern the 3 standard speeds set at the factory.

NOTE: the symbol (-) means that for UTC 30, 40, 50, 60, 70 models only 3 fan speeds are available. For UTC 10 and UTC 20 models, upon customer request other 3 speeds among the 4 available speeds can be connected.



## LIMITI DI FUNZIONAMENTO

Maximal entering water temperature	70 °C
Minimal entering water temperature	+ 4 °C
Maximal working pressure	8 bar

Maximal room air temperature	40 °C
Minimal room air temperature	+ 4 °C

### Water flow and water pressure drops limit, 3R coil (models UTC 10, 20, 30, 40, 50) and 4R coil (modelli UTC 60, 70)

		MODEL						
		UTC10	UTC20	UTC30	UTC40	UTC50	UTC60	UTC70
<small>(Data concern medium water temperature of 9,5°C)</small>								
Minimal water flow	l/h	175	225	275	325	375	825	1.400
Minimal water pressure drop	kPa	1,3	1,1	1,0	1,0	1,0	1,0	1,0
Maximal water flow	l/h	1.300	1.850	2.275	2.700	3.150	6.900	11.575
Maximal water pressure drop	kPa	70,8	71,9	70,0	69,9	70,1	70,4	70,3

### Water flow and water pressure drops limit, 1R coil (models UTC 10, 20, 30, 40, 50) and 2R coil (modelli UTC 60, 70)

		MODEL						
		UTC10	UTC20	UTC30	UTC40	UTC50	UTC60	UTC70
<small>(Data concern medium water temperature of 65°C)</small>								
Minimal water flow	l/h	75	125	150	200	225	600	1.025
Minimal water pressure drop	kPa	1,2	1,0	1,3	1,0	1,2	1,1	1,0
Maximal water flow	l/h	575	1.050	1.100	1.650	1.725	4.900	8.450
Maximal water pressure drop	kPa	68,5	69,7	70,0	69,2	69,6	70,7	70,2

### 3 Way valve

Using of 2 or 3 way valves is compulsory when the unit is used for cooling to avoid condensate in the external structure (bearing structure and cabinet). As alternative install a regulating system to stop coil water entering when the fan is off.

### Maximal fan static pressure

When the unit is connected with ducts fan air flow is reduced due to the ducting pressure drops. With very high pressure drops fancoil air flow becomes too low and electric motor which is connected to the fan can be damaged. For this reason we recommend static pressures lower than the maximal limit static pressures indicated in the schedule.

**NOTE:** when the fancoil is operating with the maximal operating indicated static pressure value, air flow is half in comparison with the unit without ducts at the same working speed. Definitively the static pressure limit value corresponds to the back pressure ables to halve fancoil air flow (as a consequence the fancoil unit performances like heating & cooling capacity, will be reduced of about 50%).

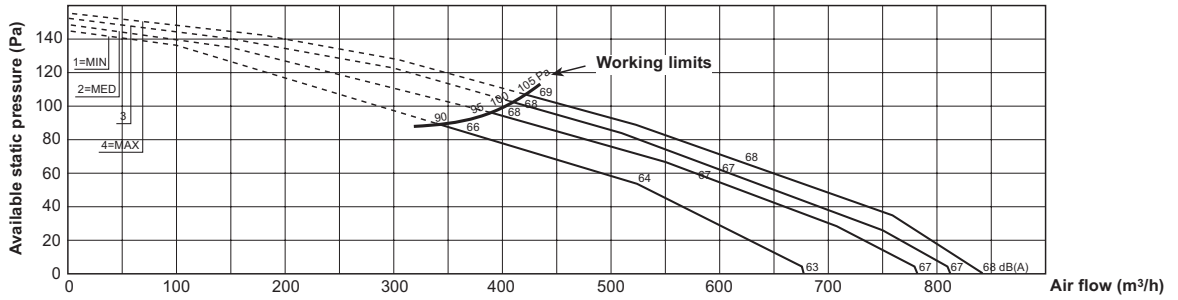
			MODEL						
			UTC10	UTC20	UTC30	UTC40	UTC50	UTC60	UTC70
2 pipe system	Pa	1	90 <sup>min</sup>	80 <sup>min</sup>	115 <sup>min</sup>	105 <sup>min</sup>	135 <sup>min</sup>	220 <sup>min</sup>	220 <sup>min</sup>
	Pa	2	95 <sup>med</sup>	95 <sup>med</sup>	130 <sup>med</sup>	130 <sup>med</sup>	180 <sup>med</sup>	240 <sup>med</sup>	240 <sup>med</sup>
	Pa	3	100	100	135 <sup>max</sup>	135 <sup>max</sup>	205 <sup>max</sup>	260 <sup>max</sup>	260 <sup>max</sup>
	Pa	4	105 <sup>max</sup>	105 <sup>max</sup>	-	-	-	-	-
4 pipe system	Pa	1	75 <sup>min</sup>	70 <sup>min</sup>	95 <sup>min</sup>	90 <sup>min</sup>	110 <sup>min</sup>	180 <sup>min</sup>	180 <sup>min</sup>
	Pa	2	85 <sup>med</sup>	80 <sup>med</sup>	115 <sup>med</sup>	115 <sup>med</sup>	155 <sup>med</sup>	210 <sup>med</sup>	210 <sup>med</sup>
	Pa	3	90	85	120 <sup>max</sup>	120 <sup>max</sup>	180 <sup>max</sup>	220 <sup>max</sup>	220 <sup>max</sup>
	Pa	4	95 <sup>max</sup>	90 <sup>max</sup>	-	-	-	-	-

The value indicated with min, med, .max, concern the 3 standard speeds set at the factory.

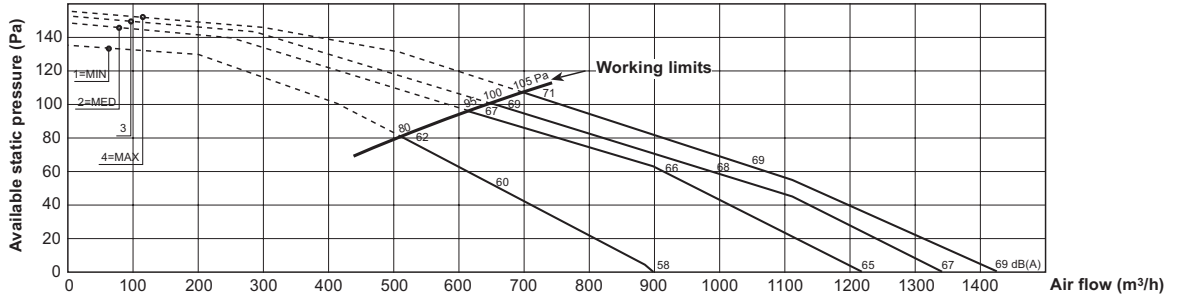
**NOTE:** the symbol (-) means that for UTC 30, 40, 50, 60, 70 models only 3 fan speeds are available. For UTC 10 and UTC 20 models, upon customer request other 3 speeds among the 4 available speeds can be connected.

## AERUALIC PERFORMANCE

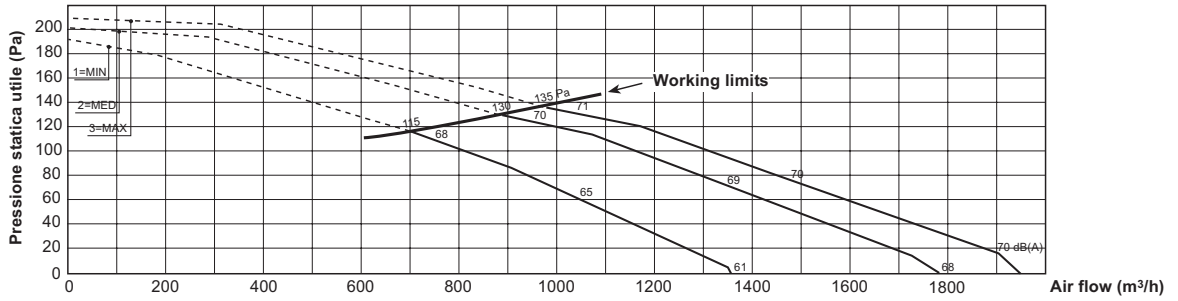
### MOD.: UTC 10 - 2 PIPE SYSTEM (ref. to 3R coil data)



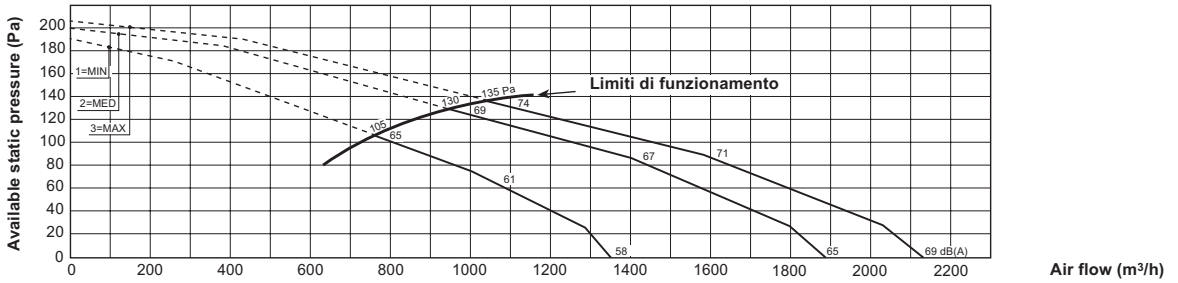
### MOD.: UTC 20 - 2 PIPE SYSTEM (ref. to 3R coil data)



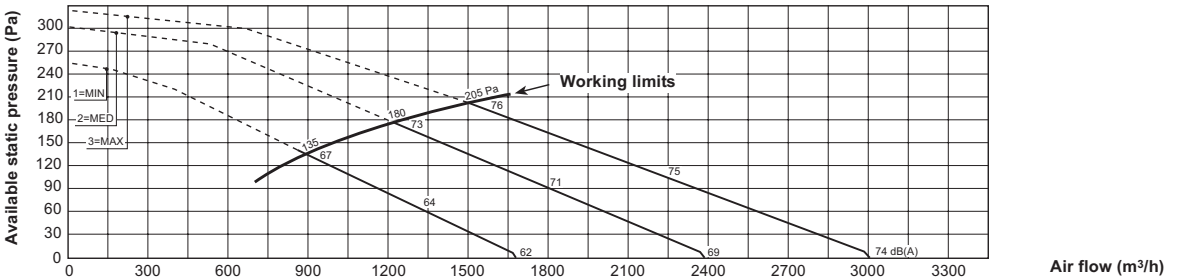
### MOD.: UTC 30 - 2 PIPE SYSTEM (ref. to 3R coil data)



### MOD.: UTC 40 - 2 PIPE SYSTEM (ref. to 3R coil data)



### MOD.: UTC 50 - 2 PIPE SYSTEM (ref. to 3R coil data)

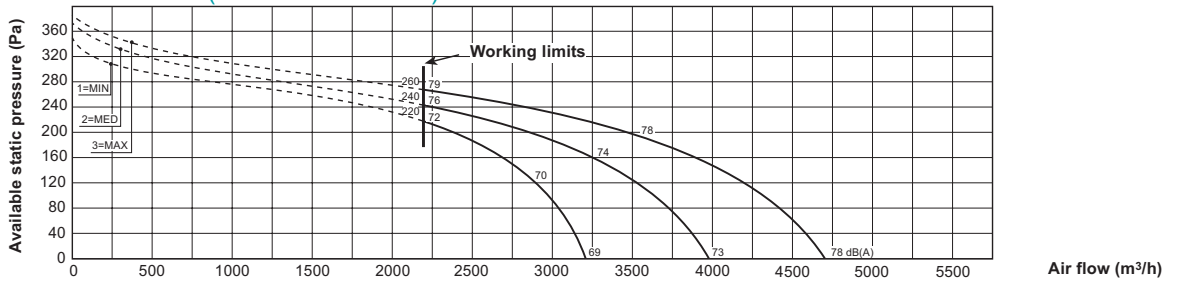


The value indicated with min, med, .max, concern the 3 standard speeds set at the factory.

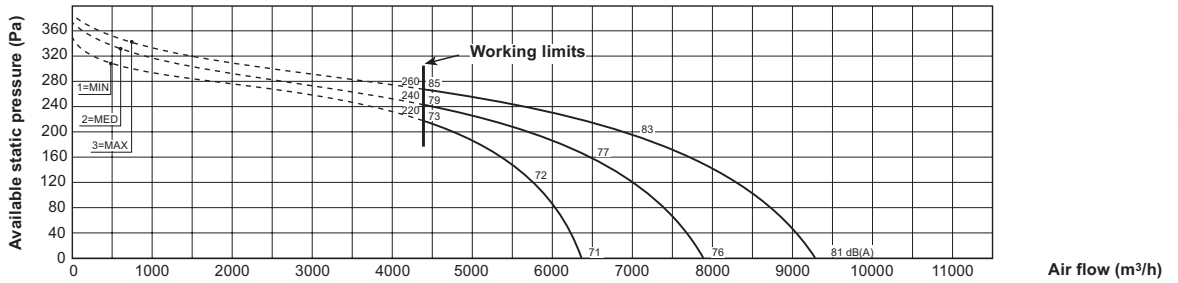
NOTE: the symbol (-) means that for UTC 30, 40, 50, 60, 70 models only 3 fan speeds are available. For UTC 10 and UTC 20 models, upon customer request other 3 speeds among the 4 available speeds can be connected.

## AERUALIC PERFORMANCE

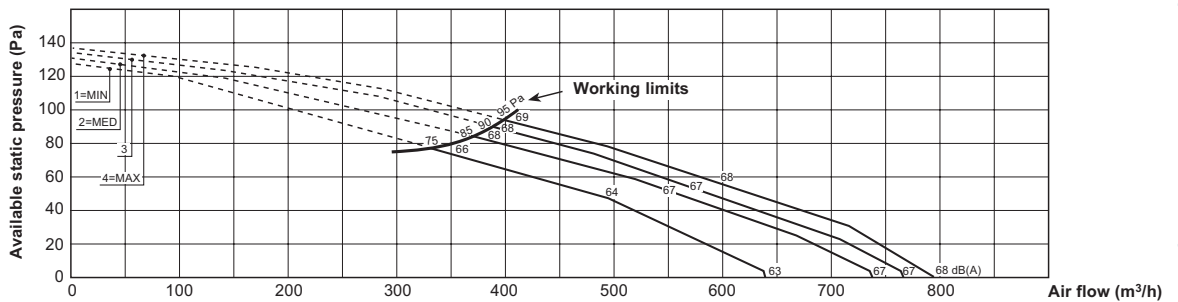
### MOD.: UTC 60 - 2 PIPE SYSTEM (ref. to 4R coil data)



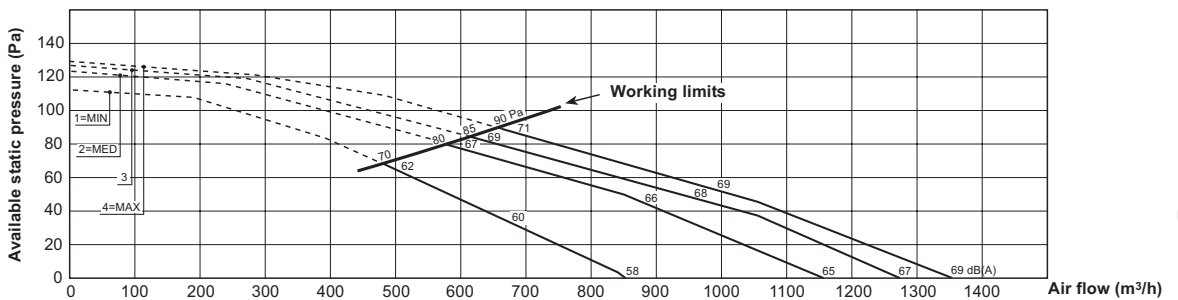
### MOD.: UTC 70 - 2 PIPE SYSTEM (ref. to 4R coil data)



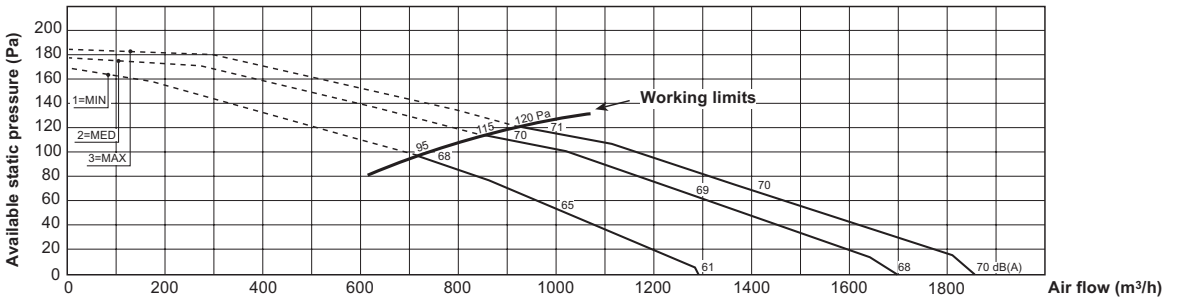
### MOD.: UTC 10 - 4 PIPE SYSTEM (ref. to 3+1R coil data)



### MOD.: UTC 20 - 4 PIPE SYSTEM (ref. to 3+1R coil data)



### MOD.: UTC 30 - 4 PIPE SYSTEM (ref. to 3+1R coil data)

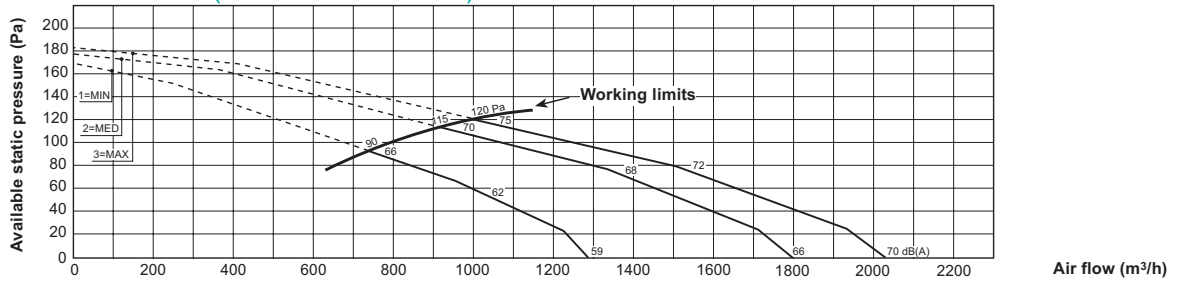


The value indicated with min, med, .max, concern the 3 standard speeds set at the factory.

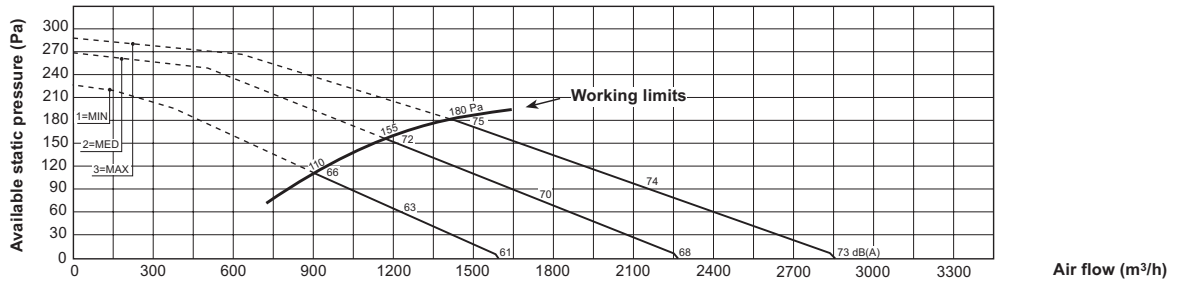
NOTE: the symbol (-) means that for UTC 30, 40, 50, 60, 70 models only 3 fan speeds are available. For UTC 10 and UTC 20 models, upon customer request other 3 speeds among the 4 available speeds can be connected.

## AERAUIC PERFORMANCE

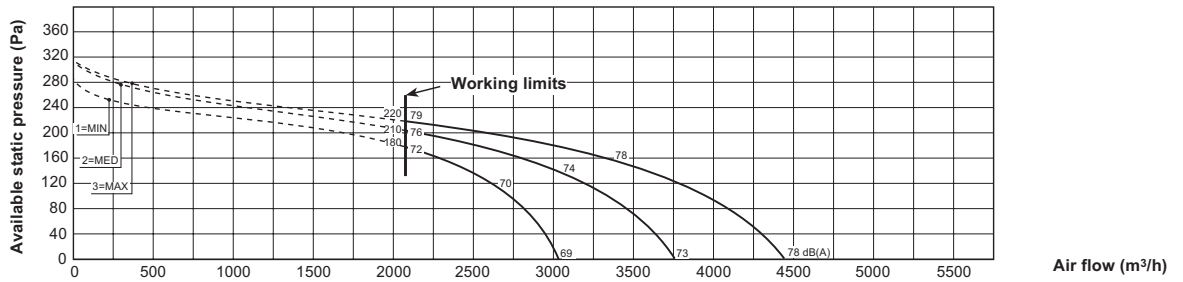
### MOD.: UTC 40 - 4 PIPE SYSTEM (ref. to 3+1R coil data)



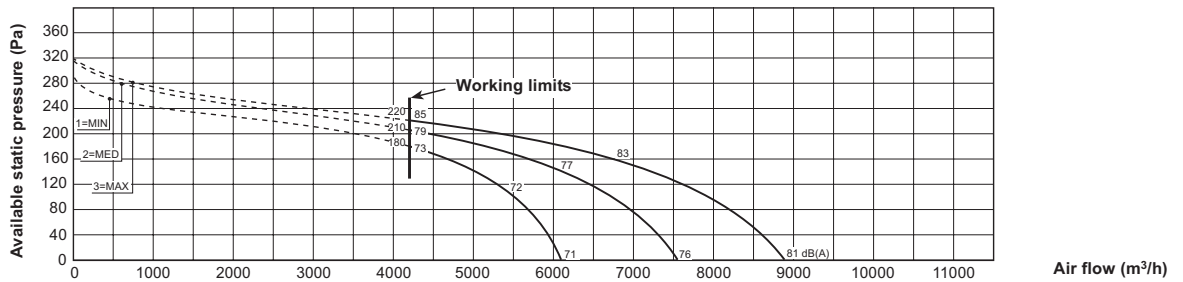
### MOD.: UTC 50 - 4 PIPE SYSTEM (ref. to 3+1R coil data)



### MOD.: UTC 60 - 4 PIPE SYSTEM (ref. to 4+2R coil data)



### MOD.: UTC 70 - 4 PIPE SYSTEM (ref. to 4+2R coil data)



The value indicated with min, med, .max, concern the 3 standard speeds set at the factory.

NOTE: the symbol (-) means that for UTC 30, 40, 50, 60, 70 models only 3 fan speeds are available. For UTC 10 and UTC 20 models, upon customer request other 3 speeds among the 4 available speeds can be connected.

## SOUND POWER SPECTRUM - 2 PIPE SYSTEM

Model	Speeds	Standard electrical wiring	Frequency spectrum - ref. octave band (Hz)							Total sound power dB(A)
			125	250	500	1000	2000	4000	8000	
UTC10	1	Min	68,1	60,6	59,3	57,9	54,9	52,3	45,9	63
	2	Med	71,4	64,5	62,8	62	59	57	51,5	67
	3		71,3	65,3	63,2	62,4	59,5	57,5	52,5	67,4
	4	Max	71,9	65,7	63,7	62,9	60,1	58,2	53,4	68
UTC20	1	Min	62,2	56,4	55,9	52,6	49,8	44,5	37	58
	2	Med	68,2	63	61,7	59,9	57,1	54,3	48,3	65
	3		70	64,8	63,2	62	59,2	56,9	51,7	67,1
	4	Max	71,4	66,9	64,8	63,9	61,2	59,2	54,4	69
UTC30	1	Min	62	57,7	58,8	56	53,1	49,7	42,8	61
	2	Med	67,1	63,7	64,3	63,5	59,9	51,5	53,5	68
	3	Max	68	65,3	63,5	65,9	61,8	60,6	56,3	70
UTC40	1	Min	67,5	53,5	54,2	51,9	49,6	46	38,6	58
	2	Med	68,3	59,7	61	59,8	57,2	56,2	51,4	65
	3	Max	69,3	63,4	64,2	64,4	61,1	60,6	56,8	69
UTC50	1	Min	63,7	57,8	58,4	58	54,8	48,2	39,1	62
	2	Med	70,4	64,7	63,6	64,2	62,6	59,3	52,2	69
	3	Max	74,6	70,2	67,8	68,6	67,7	65,5	60,1	74
UTC60	1	Min	71,3	66,3	68,8	63,4	58,1	54,1	41,6	69
	2	Med	73,8	96	72,7	67,7	62,5	59	48	73
	3	Max	74,1	73,7	77,4	73,2	68,2	64,9	54,8	78
UTC70	1	Min	67,3	67,8	70,6	65,8	61	56,8	44,7	71
	2	Med	76	72,1	75,2	71,3	66,4	63	52	76
	3	Max	73,7	76,9	79,3	76,7	71,9	68,7	58,9	81

## SOUND POWER SPECTRUM - 4 PIPE SYSTEM

Model	Speeds	Standard electrical wiring	Frequency spectrum - ref. octave band (Hz)							Total sound power dB(A)
			125	250	500	1000	2000	4000	8000	
UTC10	1	Min	68,1	60,6	59,3	57,9	54,9	52,3	45,9	63
	2	Med	71,4	64,5	62,8	62	59	57	51,5	67
	3		71,3	65,3	63,2	62,4	59,5	57,5	52,5	67,4
	4	Max	71,9	65,7	63,7	62,9	60,1	58,2	53,4	68
UTC20	1	Min	62,2	56,4	55,9	52,6	49,8	44,5	37	58
	2	Med	68,2	63	61,7	59,9	57,1	54,3	48,3	65
	3		70	64,8	63,2	62	59,2	56,9	51,7	67,1
	4	Max	71,4	66,9	64,8	63,9	61,2	59,2	54,4	69
UTC30	1	Min	62	57,7	58,8	56	53,1	49,7	42,8	61
	2	Med	67,1	63,7	64,3	63,5	59,9	51,5	53,5	68
	3	Max	68	65,3	63,5	65,9	61,8	60,6	56,3	70
UTC40	1	Min	68,5	54,5	55,2	52,9	50,6	47	39,6	59
	2	Med	69,3	60,7	62	60,8	58,2	57,2	52,4	66
	3	Max	70,3	64,4	65,2	65,4	62,1	61,6	57,8	70
UTC50	1	Min	62,7	56,8	57,4	57	53,8	47,2	38,1	61
	2	Med	69,4	63,7	62,6	63,2	61,6	58,3	51,2	68
	3	Max	73,6	69,2	66,8	67,6	66,7	64,5	59,1	73
UTC60	1	Min	71,3	66,3	68,8	63,4	58,1	54,1	41,6	69
	2	Med	73,8	96	72,7	67,7	62,5	59	48	73
	3	Max	74,1	73,7	77,4	73,2	68,2	64,9	54,8	78
UTC70	1	Min	67,3	67,8	70,6	65,8	61	56,8	44,7	71
	2	Med	76	72,1	75,2	71,3	66,4	63	52	76
	3	Max	73,7	76,9	79,3	76,7	71,9	68,7	58,9	81

The value indicated with min, med, .max, concern the 3 standard speeds set at the factory.

NOTE: the symbol (-) means that for UTC 30, 40, 50, 60, 70 models only 3 fan speeds are available. For UTC 10 and UTC 20 models, upon customer request other 3 speeds among the 4 available speeds can be connected.

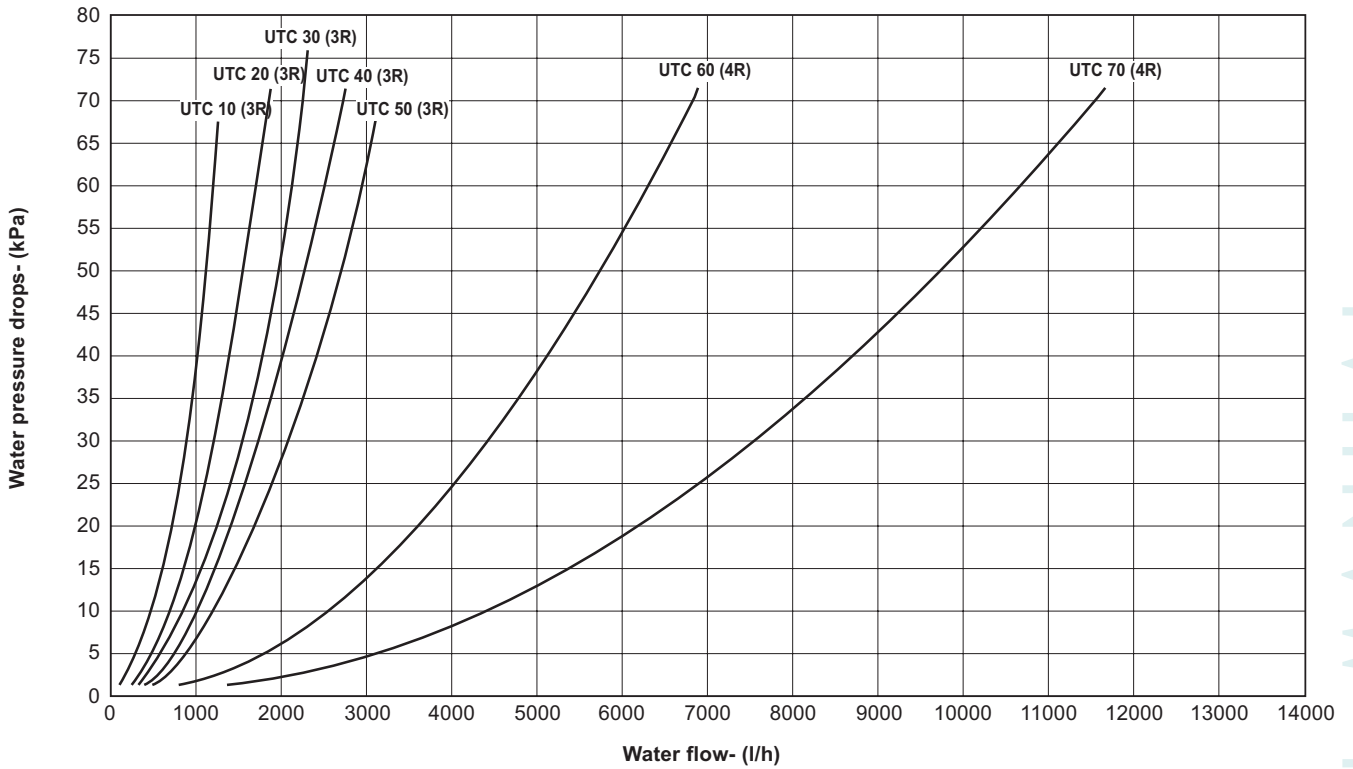
## AIR PRESSURE DROPS FOR THE MAIN ACCESSORIES (Pa)

Air flow dB(A)	Accessory description							
	Fresh air lower section (SSP) with completely open fresh air lower position	Fresh air lower section (SSP) with completely closed fresh air lower position	Straight intake / supply plenum (PAM)	90° intake / supply plenum (RAM)	Intake / supply section with spigots (BAM)	Heating section with electric heater (SRE)	Standard air filter in medium stemming condition	Standard air filter in limit stemming condition CLEANING IS NECESSARY
<b>UTC10</b>								
837	8,7	7,5	1,2	2,8	5,3	50,6	55,1	110
800	7,9	6,9	1,1	2,5	4,8	46,2	50,4	101
700	6,1	5,3	0,8	1,9	3,7	35,4	38,5	77,1
600	4,5	3,9	0,6	1,4	2,7	26,0	28,3	56,6
500	3,1	2,7	0,4	1,0	1,9	18,0	19,7	39,3
400	2,0	1,7	0,3	0,6	1,2	11,5	12,6	25,2
330	1,3	1,2	-	0,4	0,8	7,9	8,6	17,1
<b>UTC20</b>								
1423	9,3	8,1	1,2	2,9	8,4	52,1	56,7	113
1400	9,0	7,8	1,2	2,8	8,1	50,4	54,9	110
1200	6,6	5,7	0,9	2,1	6,0	37,0	40,3	80,7
1000	4,6	4,0	0,6	1,4	4,1	25,7	28,0	56,0
800	2,9	2,5	0,4	0,9	2,7	16,5	17,9	35,9
600	1,6	1,4	-	0,5	1,5	9,3	10,1	20,2
400	0,7	0,6	-	-	0,7	4,1	4,5	9,0
<b>UTC30</b>								
1951	14,1	12,2	1,6	4,4	15,8	59,5	64,9	130
1800	12,0	10,4	1,4	3,8	13,5	50,7	55,2	110
1600	9,5	8,2	1,1	3,0	10,6	40,0	43,6	87,3
1400	7,2	6,3	0,8	2,3	8,2	30,6	33,4	66,8
1200	5,3	4,6	0,6	1,7	6,0	22,5	24,5	49,1
1000	3,7	3,2	0,4	1,2	4,2	15,6	17,0	34,1
800	2,4	2,1	0,3	0,7	2,7	10,0	10,9	21,8
650	1,6	1,4	-	0,5	1,8	6,6	7,2	14,4
<b>UTC40</b>								
2131	10,9	9,5	1,3	3,4	10,7	45,6	49,7	99,4
2000	9,6	8,3	1,2	3,0	9,4	40,2	43,8	87,6
1800	7,8	6,8	0,9	2,5	7,6	32,5	35,5	70,9
1600	6,1	5,3	0,7	1,9	6,0	25,7	28,0	56,0
1400	4,7	4,1	0,6	1,5	4,6	19,7	21,5	42,9
1200	3,5	3,0	0,4	1,1	3,4	14,5	15,8	31,5
1000	2,4	2,1	0,3	0,8	2,4	10,0	10,9	21,9
800	1,5	1,3	-	0,5	1,5	6,4	7,0	14,0
650	1,0	0,9	-	0,3	1,0	4,2	4,6	9,2
<b>UTC50</b>								
3002	15,4	13,4	1,6	4,4	21,8	57,0	62,1	124
2600	11,6	10,1	1,2	3,3	16,4	42,7	46,6	93,1
2200	8,3	7,2	0,9	2,4	11,7	30,6	33,3	66,7
1800	5,5	4,8	0,6	1,6	7,8	20,5	22,3	44,6
1400	3,4	2,9	0,3	1,0	4,7	12,4	13,5	27,0
1000	1,7	1,5	-	0,5	2,4	6,3	6,9	13,8
800	1,1	1,0	-	0,3	1,5	4,0	4,4	8,8
<b>UTC60</b>								
4678	8,5	7,4	0,9	2,5	13,7	27,6	30,1	60,1
4500	7,9	6,8	0,9	2,3	12,7	25,5	27,8	55,6
4000	6,2	5,4	0,7	1,8	10,0	20,2	22,0	43,9
3500	4,8	4,1	0,5	1,4	7,7	15,4	16,8	33,6
3000	3,5	3,0	0,4	1,0	5,6	11,3	12,4	24,7
2500	2,4	2,1	0,3	0,7	3,9	7,9	8,6	17,2
2000	1,6	1,4	-	0,5	2,5	5,0	5,5	11,0
1600	1,0	0,9	-	0,3	1,6	3,2	3,5	7,0
<b>UTC70</b>								
9250	13,7	11,9	1,4	4,0	12,4	43,8	47,8	95,5
9000	12,9	11,2	1,3	3,8	11,7	41,5	45,2	90,4
8200	10,7	9,3	1,1	3,1	9,7	34,4	37,5	75,1
7400	8,7	7,6	0,9	2,5	7,9	28,0	30,6	61,1
6600	6,9	6,0	0,7	2,0	6,3	22,3	24,3	48,6
5800	5,4	4,7	0,6	1,6	4,9	17,2	18,8	37,5
5000	4,0	3,5	0,4	1,2	3,6	12,8	14,0	27,9
4200	2,8	2,4	0,3	0,8	2,6	9,0	9,8	19,7
3400	1,8	1,6	-	0,5	1,7	5,9	6,5	12,9
3200	1,6	1,4	-	0,5	1,5	5,2	5,7	11,4

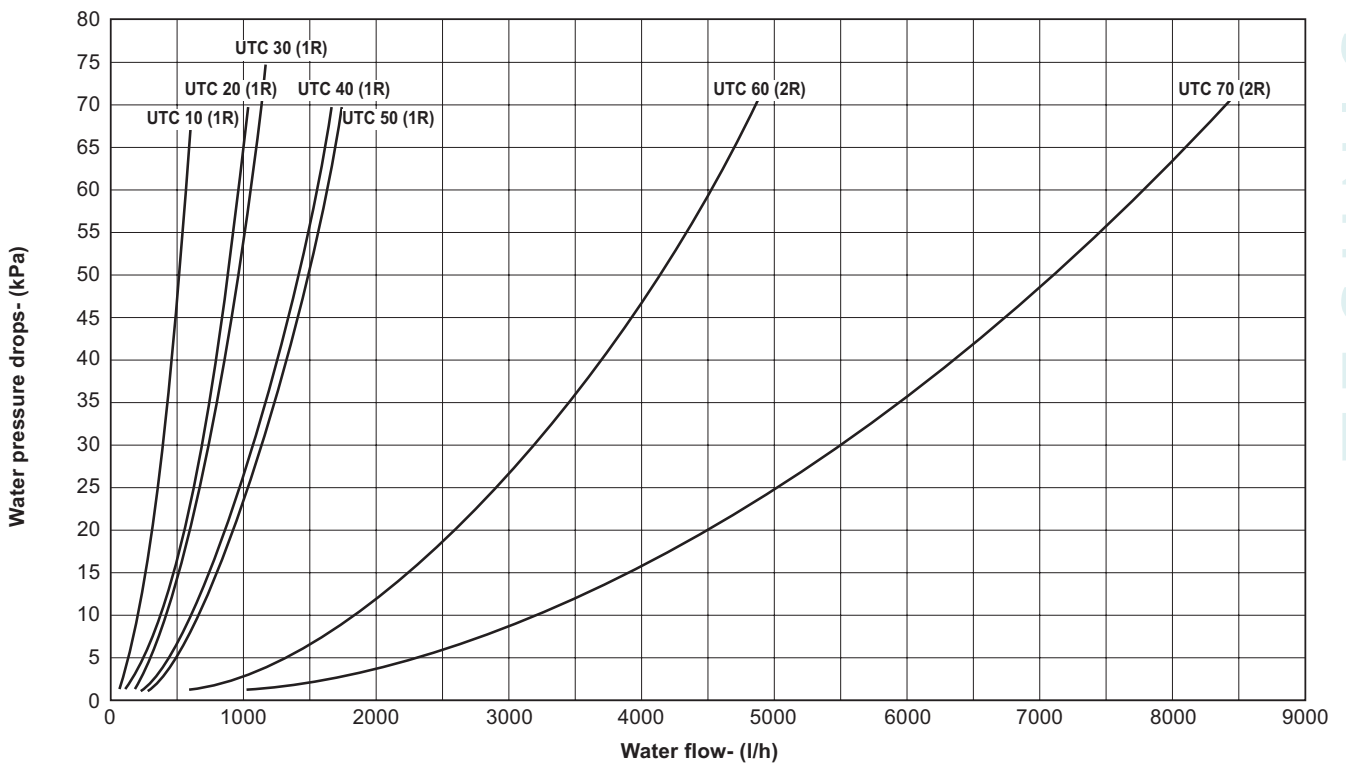
TECHNICAL MANUAL

## WATERCOILS PRESSURE DROP DIAGRAM

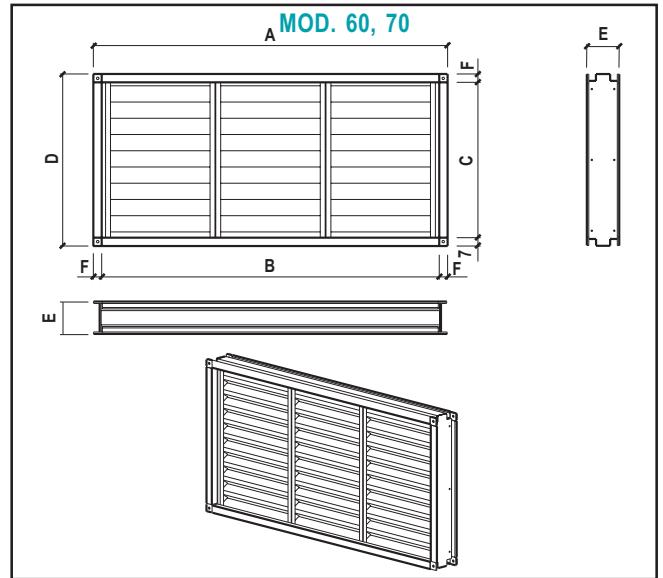
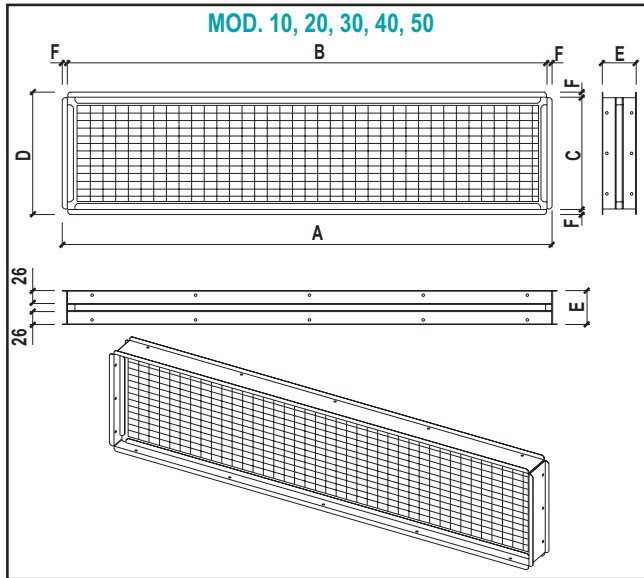
**STANDARD COIL** (Ref. Water medium temperature= 9.5° C)



**AUXILIARY COIL** (Ref. Water medium temperature= 65° C)



### SFA (air filter section)



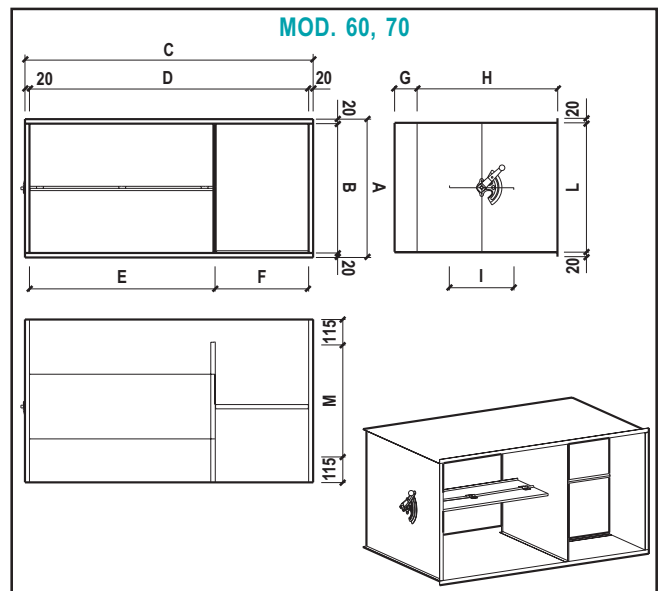
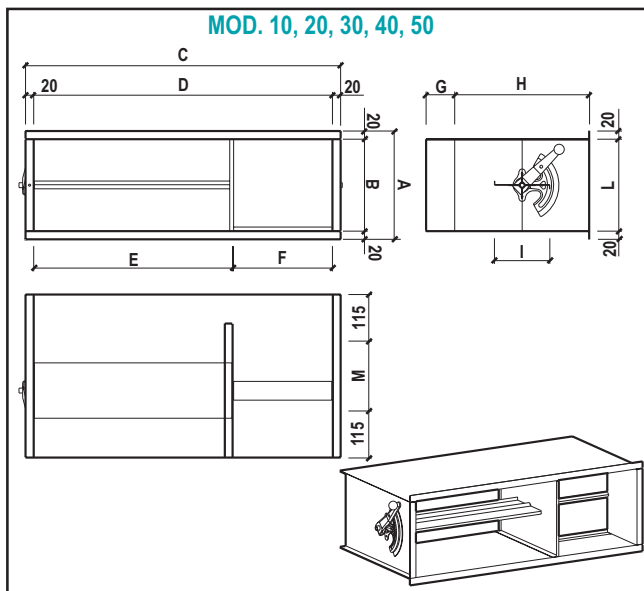
MOD.	CODE	A	B	C	D	E	F
Standard filter		mm	mm	mm	mm	mm	mm
SFA10	A0055460010	566	546	195	215	67	10
SFA20	A0055460020	918	898	195	215	67	10
SFA30	A0055460030	1.018	998	222	242	67	10
SFA40	A0055460040	1.258	1.238	222	242	67	10
SFA50	A0055460050	1.258	1.238	272	292	67	10
SFA60	A0055460060	1.280	1.234	568	629	118	31
SFA70	A0055460070	2.050	1.924	568	629	118	31

N.B. Standard filtration efficiency: G3

MOD.	CODE	A	B	C	D	E	F
Activated carbons		mm	mm	mm	mm	mm	mm
SFA10	A0055460012	566	546	195	215	67	10
SFA20	A0055460022	918	898	195	215	67	10
SFA30	A0055460032	1.018	998	222	242	67	10
SFA40	A0055460042	1.258	1.238	222	242	67	10
SFA50	A0055460052	1.258	1.238	272	292	67	10
SFA60	A0055460062	1.280	1.234	568	629	118	31
SFA70	A0055460072	2.050	1.924	568	629	118	31

N.B. Standard filtration efficiency: G2

### SSP (Section with fresh air louver - manual)

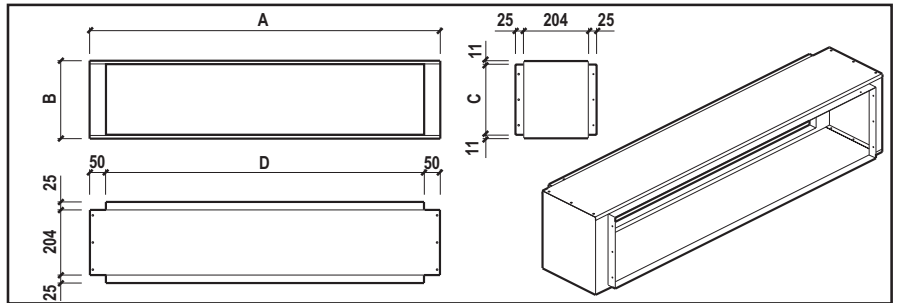


MOD.	CODE	A	B	C	D	E	F	G	H	I	L	M
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SSP10	A0055470009	240	200	590	550	365	185	70	330	136	200	170
SSP20	A0055470010	240	200	940	900	600	300	70	330	136	200	170
SSP30	A0055470011	265	225	1.040	1.000	665	335	70	330	136	225	170
SSP40	A0055470012	265	225	1.280	1.240	825	415	70	330	136	225	170
SSP50	A0055470013	310	270	1.280	1.240	825	415	70	330	136	275	170
SSP60	A0055470014	615	575	1.280	1.240	825	415	100	625	288	275	498
SSP70	A0055470015	725	575	1.969	1.929	642	1.286	100	625	288	575	498



### PAM (Straight plenum: intake)

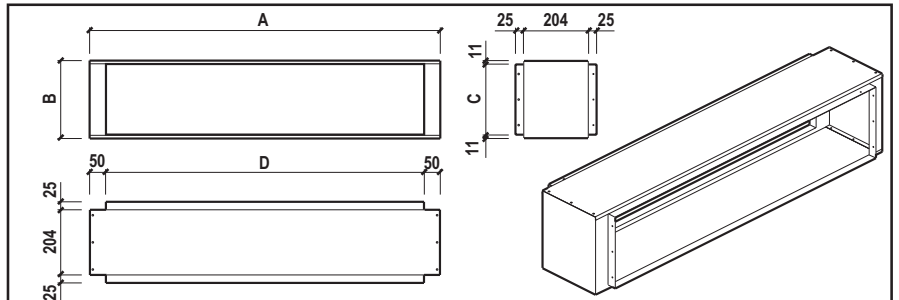
MOD.	CODE	A mm	B mm	C mm	D mm
PAM10	A0055500081	648	219	197	548
PAM20	A0055500082	998	219	197	898
PAM30	A0055500083	1.098	244	222	998
PAM40	A0055500084	1.338	244	222	1.238
PAM50	A0055500085	1.338	294	272	1.238
PAM60	A0055500086	1.342	595	572	1.242
PAM70	A0055500087	2.026	595	572	1.926



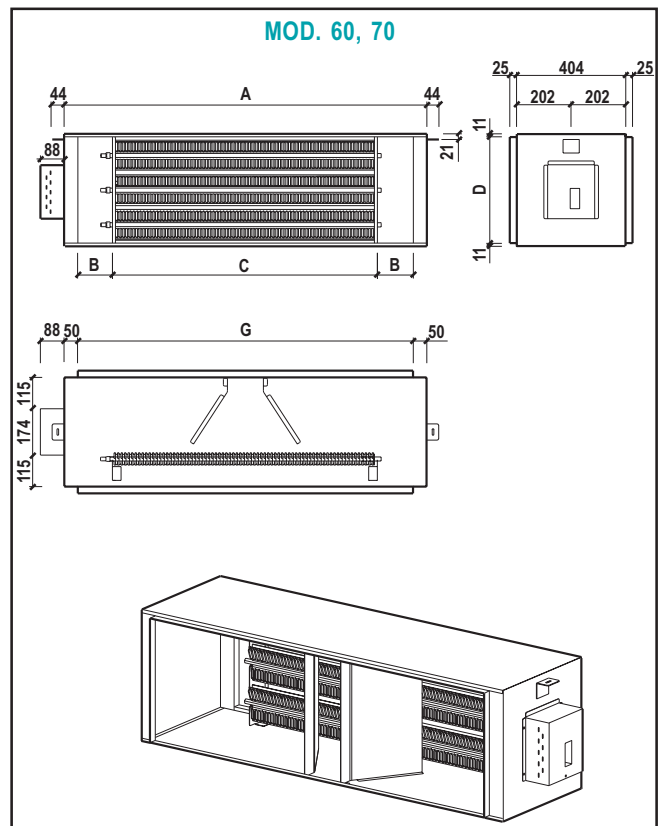
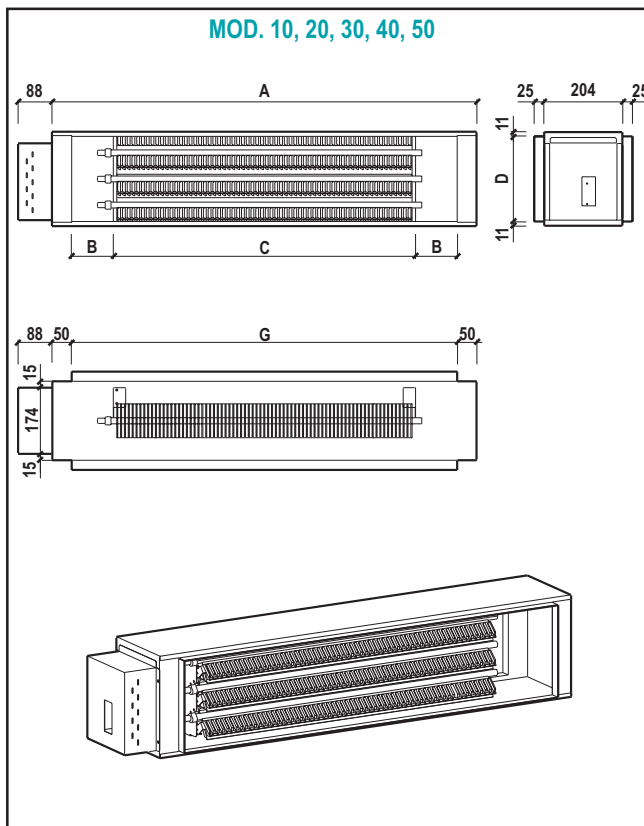
### PAM (Straight plenum: supply)

MOD.	CODE	A mm	B mm	C mm	D mm
PAM10	A0055500053	648	219	197	548
PAM20	A0055500054	998	219	197	898
PAM30	A0055500055	1.098	244	222	998
PAM40	A0055500056	1.338	244	222	1.238
PAM50	A0055500057	1.338	294	272	1.238
PAM60	A0055500058	1.342	416	394	1.242
PAM70	A0055500059	2.026	416	394	1.926

N.B.: INSULATED (10 mm open cell)



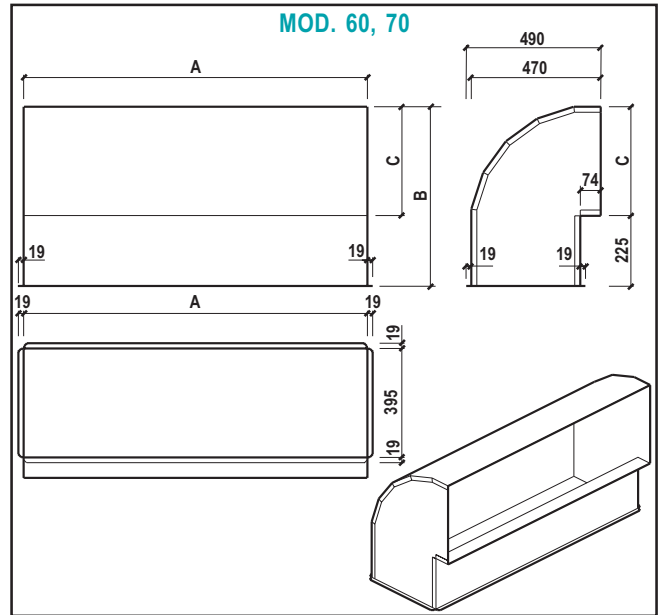
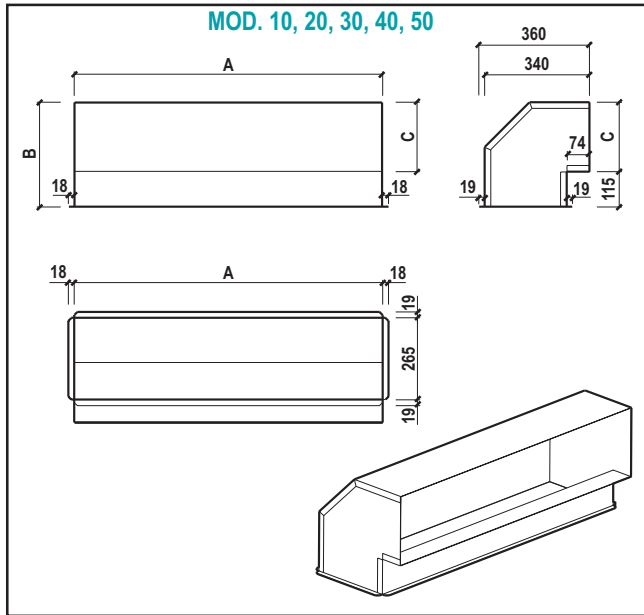
### SRE (Heating section with electric heater - 380 V)



MOD.	CODE	A mm	B mm	C mm	D mm	E mm	Heating capacity W
SRE10-B	A0055550009	648	84	380	197	548	3.000
SRE10-B	A0055550010	998	159	580	197	898	6.000
SRE10-B	A0055550011	1.098	109	780	222	998	6.000
SRE10-B	A0055550012	1.338	128	980	222	1.238	9.000
SRE10-B	A0055550013	1.338	128	980	272	1.238	9.000
SRE10-B	A0055550014	1.342	131	980	394	1.242	12.000
SRE10-B	A0055550015	2.029	*	1.929	394	1.929	18.000

MOD.	CODE	A mm	B mm	C mm	D mm	E mm	Heating capacity W
SRE10-A	A0055550016	648	84	380	197	548	4.500
SRE10-A	A0055550017	998	159	580	197	898	9.000
SRE10-A	A0055550018	1.098	109	780	222	998	9.000
SRE10-A	A0055550019	1.338	128	980	222	1.238	12.000
SRE10-A	A0055550020	1.338	128	980	272	1.238	12.000
SRE10-A	A0055550021	1.342	131	980	394	1.242	18.000
SRE10-A	A0055550022	2.029	*	1.929	394	1.929	24.000

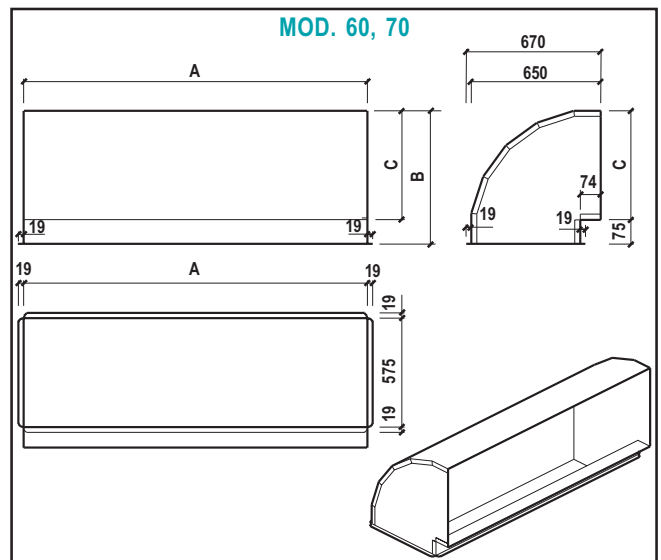
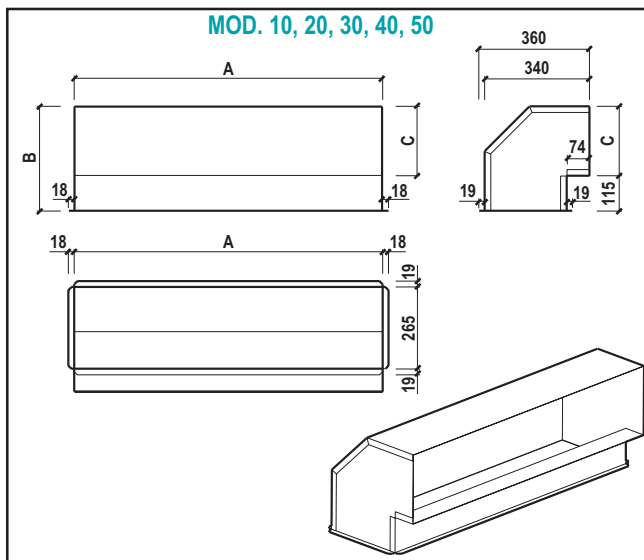
### RAM (90° plenum: supply)



MOD.	CODE	A mm	B mm	C mm
RAM10	A0055500089	552	315	200
RAM20	A0055500090	902	315	200
RAM30	A0055500091	1.002	340	225
RAM40	A0055500092	1.242	340	225
RAM50	A0055500093	1.242	390	275
RAM60	A0055500094	1.242	650	395
RAM70	A0055500095	1.932	650	395

N.B. INSULATED (10 mm open cell)

### RAM (90° plenum: intake)

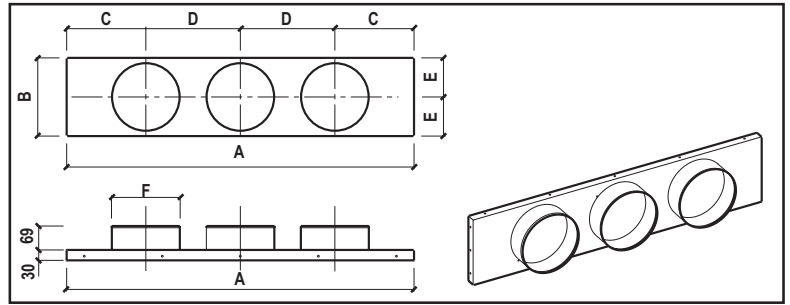


MOD.	CODE	A mm	B mm	C mm
RAM10	A0055500097	552	315	200
RAM20	A0055500098	902	315	200
RAM30	A0055500099	1.002	340	225
RAM40	A0055500100	1.242	340	225
RAM50	A0055500101	1.242	390	275
RAM60	A0055500102	1.242	650	575
RAM70	A0055500103	1.932	650	575

### BAM (supply section with spigots )

MOD.	CODE	A	B	C	D	E	F
		mm	mm	mm	mm	mm	mm
BAM10	A0055500153	550	200	135	280	100	2x200
BAM20	A0055500154	900	200	181	270	100	3x200
BAM30	A0055500155	1.000	226	227	272	113	3x200
BAM40	A0055500156	1.240	226	170	300	113	4x200
BAM50	A0055500157	1.245	276	135	325	138	4x200
BAM60	A0055500112	1.245	416	322,5	600	208	2x400
BAM70	A0055500113	1.935	416	244,5	482	208	4x400

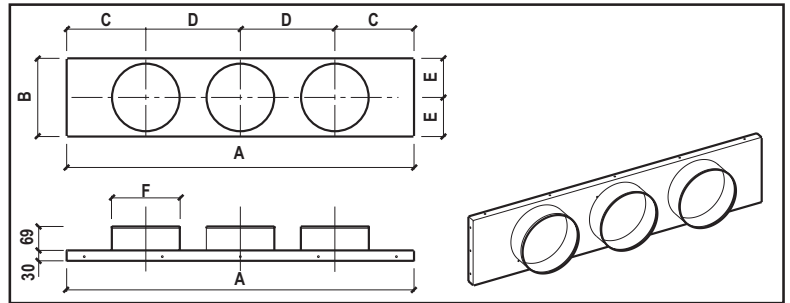
N.B. Installation must be done using 1 PAM



### BAM (intake section with spigots )

MOD.	CODE	A	B	C	D	E	F
		mm	mm	mm	mm	mm	mm
BAM10	A0055500105	550	200	135	280	100	2x200
BAM20	A0055500106	900	200	181	270	100	3x200
BAM30	A0055500107	1.000	226	227	272	113	3x200
BAM40	A0055500108	1.240	226	170	300	113	4x200
BAM50	A0055500109	1.245	276	135	325	138	4x200
BAM60	A0055500110	1.245	576	320	600	288	2x400
BAM70	A0055500111	1.935	576	242	482	288	4x400

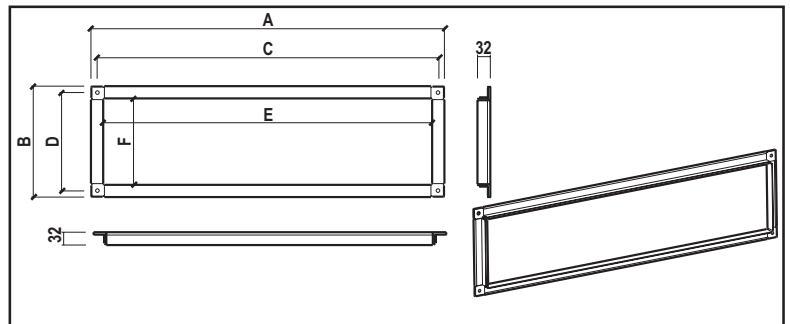
N.B. Installation must be done using 1 PAM



### FAM (Connection flange)

MOD.	CODE	A	B	C	D	E	F
		mm	mm	mm	mm	mm	mm
FAM10	A0055500071	600	249	570	219	539	188
FAM20	A0055500072	952	249	922	219	891	188
FAM30	A0055500073	1.052	276	1.022	246	991	215
FAM40	A0055500074	1.292	276	1.262	246	1.231	215
FAM50	A0055500075	1.292	326	1.262	296	1.231	265
FAM60	A0055500076	1.269	622	1.239	592	1.208	556
FAM70	A0055500077	1.979	627	1.239	592	1.918	520

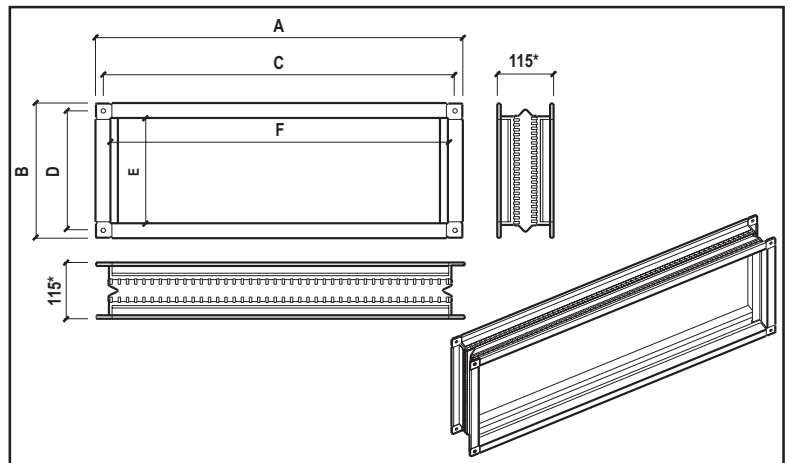
N.B Please always specify if intake or supply



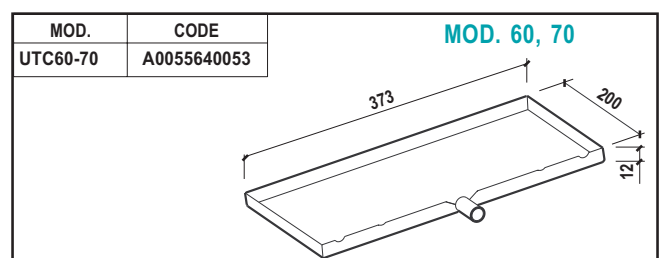
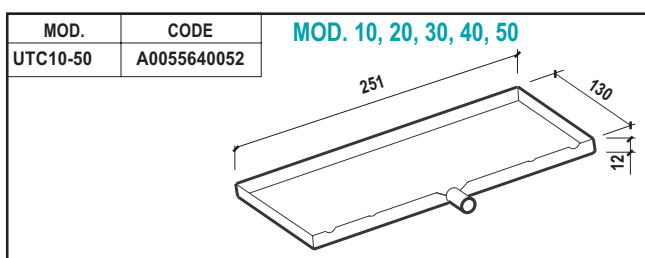
### GAM (Giunto anti-vibrante)

MOD.	CODE	A	B	C	D	E	F
		mm	mm	mm	mm	mm	mm
GAM10	A0055500115	600	249	570	219	539	188
GAM20	A0055500116	952	249	922	219	891	188
GAM30	A0055500117	1.052	276	1.022	246	991	215
GAM40	A0055500118	1.292	276	1.262	246	1.231	215
GAM50	A0055500119	1.292	326	1.262	296	1.231	265
GAM60	A0055500120	1.269	622	1.239	592	1.208	556
GAM70	A0055500121	1.979	627	1.239	592	1.918	520

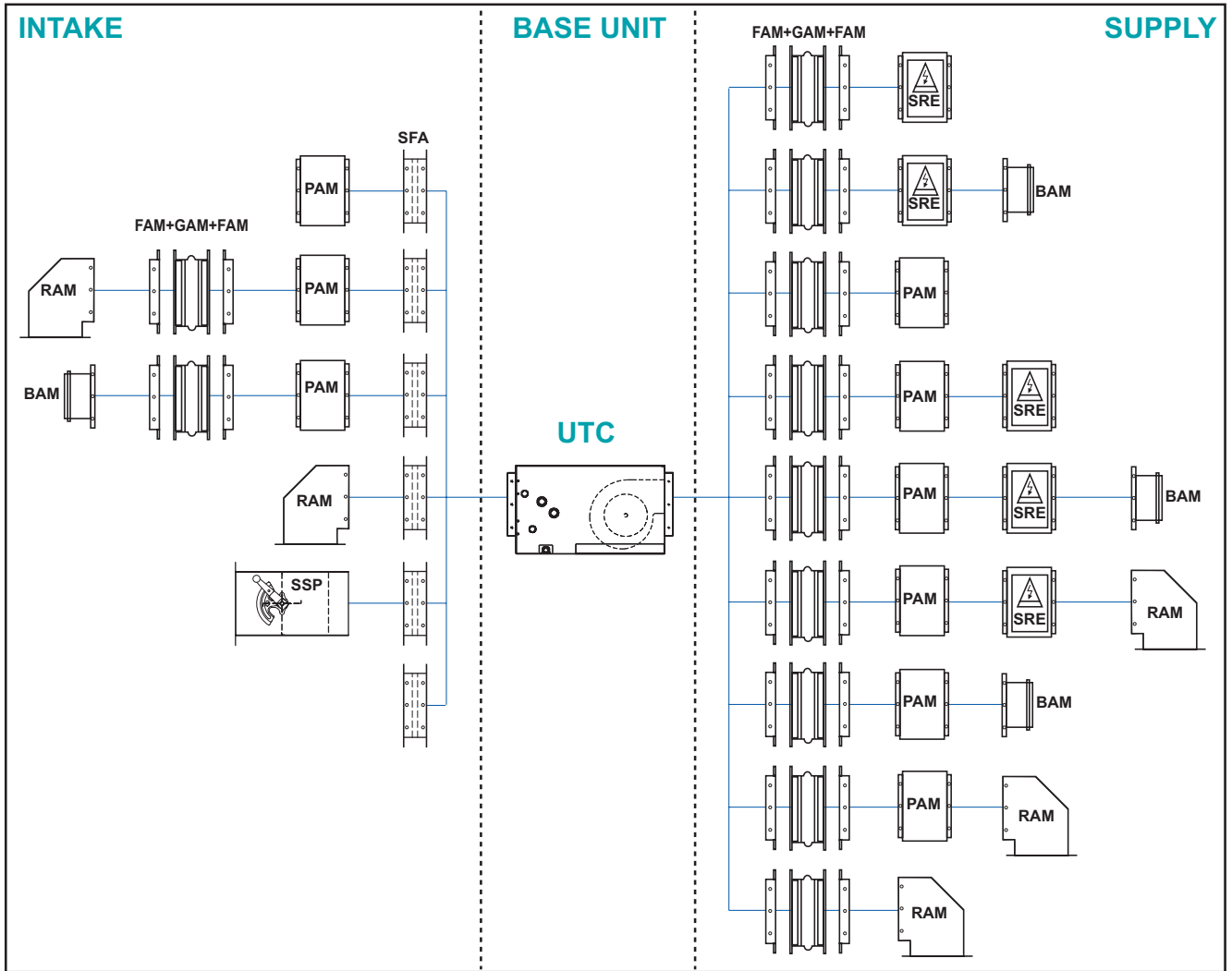
N.B. Please always specify if intake or supply  
Installation must be done using 2 FAMs and 1 PAM



### AUXILIARY DRAIN PAN



## EXAMPLE OF ACCESSORIES



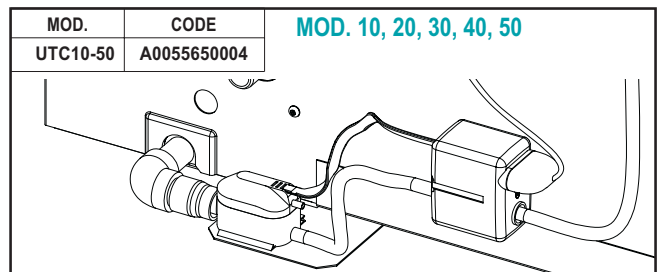
### CONDENSATE DRAIN PUMP MOD. UTC10-50

This pump is used to eliminate the condensation that collects in the tray in installations where there is no self-emptying outlet. The pump comes with filter to withhold impurities, float with activation contact, suction pipe, pump body complete with control electronic and overheating protection, wiring.

**PUMP Alarm contact** normally closed that automatically cuts off the air conditioning system compressor or valve, thermal protection 90° on the pump coil electrical connection by plug (delivered with 1 m cable), rubber mounting bracket included.

**ADVANTAGES** Small size, low noise level.

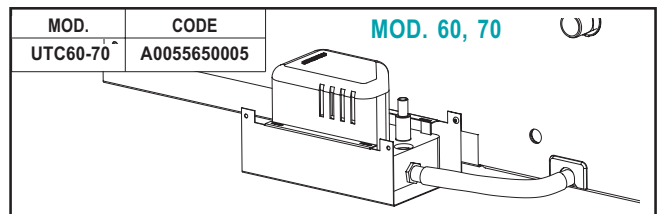
Mains supply	230V - 50Hz 18W
Max. flow rate	8 l/h
Max. suction head	1 m
Max. discharge head	6 m
Alarm contact	NC 8 A resistive
Thermal protection (overheat)	90°C
Sound level	<28dB(A) a 1 m
Pump dimensions	L 66 x l 44 x h 60 mm
Detection unit dimensions	L 55 x l 38 x h 32 mm



### CONDENSATE DRAIN PUMP MOD. UTC60-70

This pump is used to eliminate the condensation that collects in the tray in installations where there is no self-emptying outlet

Mains supply	230V - 50Hz 10,8 A
Max. flow rate	150 l/h
Max. suction head	5,4 m
Alarm contact	NC 4 A resistive
Thermal protection (overheat)	110°C
Sound level	<34dB(A) a 1 m
Pump dimensions	L 195 x l 130 x h 122 mm



### REMOTE CONTROL CD1

(installed cod. A0055150038 - loose cod. A0055150040)

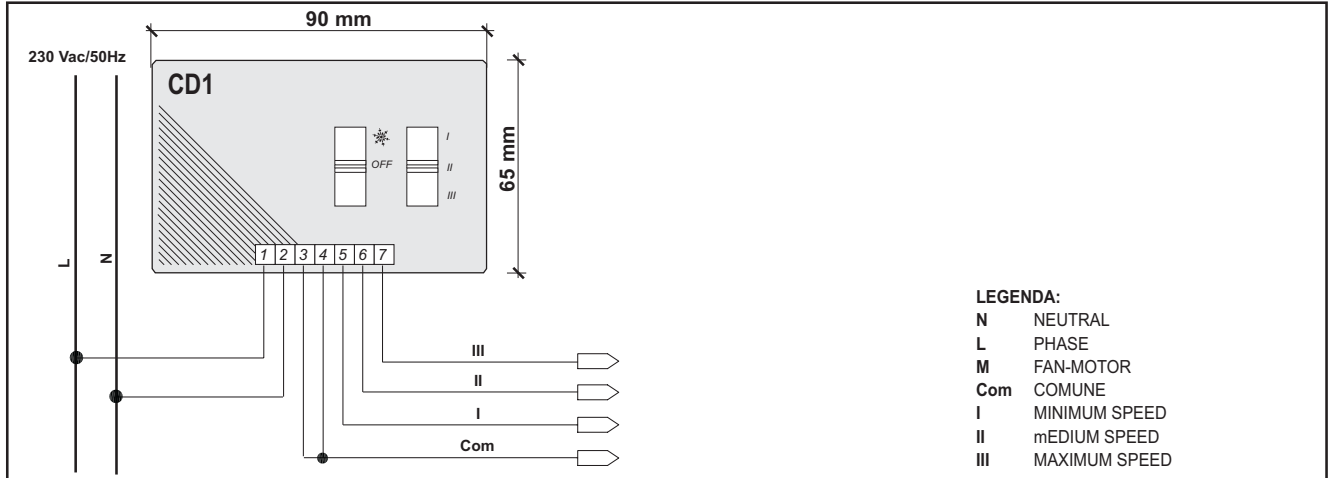
#### DESCRIPTION

The remote control CD1, by means of two switches, allows the remote control of a 3 speed fan coil. A switch selects the function OFF/Summer/Winter, while other selects one of the three speeds. Color: white (RAL 9003)

#### TECHNICAL DATA

Electrical supply:	230 ±10%V/1/50-60Hz
Max advisable electric demand:	6 (2) A @ 250V~
Output:	Relay 5 A, 250 V
Setting:	OFF/estate/inverno - 3 velocità
Temperature limits:	0-40°C
Humidity limits:	20-80%U.R. not condensable
Container:	ABS V0 auto-extinguish
Dimensions:	90 x 65 x 30 mm
Weight:	130 g

#### Connecting example



### REMOTE CONTROL CD8

(loose cod. A0055150004)

#### DESCRIPTION

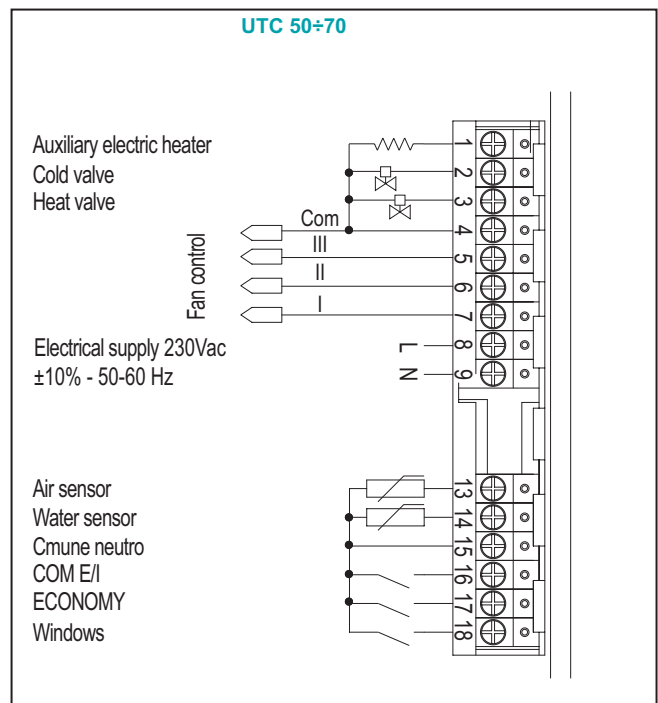
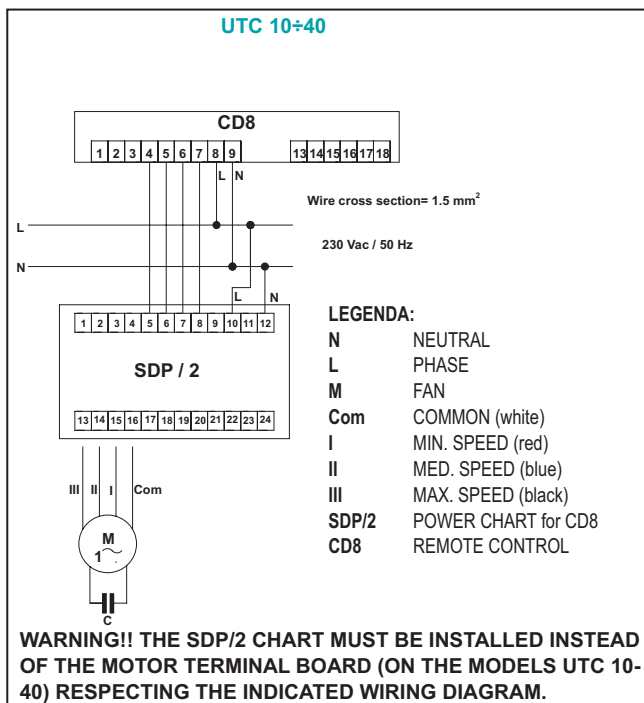
The remote control CD8, by means of 3 switches and a knob, allows the remote control of a 3 speed fan coil.

- 1° switch: ON/OFF/ECONOMY function
- 2° switch: change fan speed (automatic/min./med./max.)
- 3° switch: Summer/Winter/Electric heater function
- Knob: can be regulate the temperature between 15°C+30°C when heating and between 20°C+30°C when cooling.

#### TECHNICAL DATA

Electrical supply:	230Vac +/-10%, 50 - 60Hz
Absorption:	0.8 VA +/- 15%
Fan output:	TRIAC 250Vac, 3(2.5)A max
Valve output:	TRIAC 0,6A
Auxiliary output:	TRIAC 0,6A max
Temperature adjustment range:	+15...+30°C
Antifreeze temperature:	4°C
Temperature limits:	+0 . +50°C
Humidity limits:	0 . 95 % U.R.
Container:	IP30
Connections:	screw terminals for wires with section of 1,5 mm <sup>2</sup> .
Dimensions:	122 x 68 x 29 mm ( LxHxP)
Weight:	120 grammi

#### Therminal block with all connections



## INTERFACE CHART MOD. SDI FOR THE CONTROL OF 4 UNITS

(cod. A0055150019)

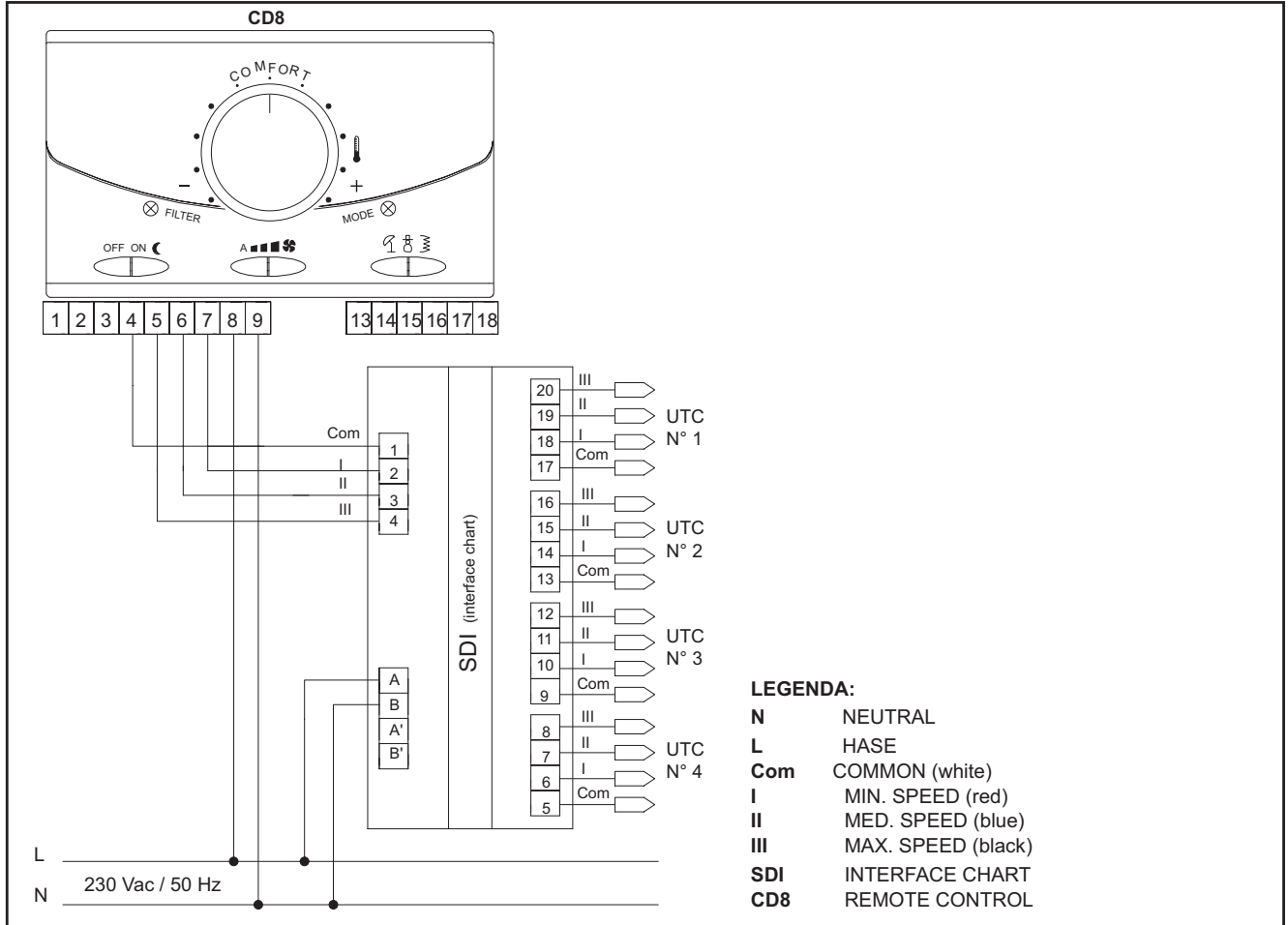
### DESCRIPTION

By means of the interface chart (to be mounted on DIN bar) it is possible to control up to 4 units with only one thermostat or remote control.

### TECHNICAL DATA

Electrical supply:	230V -15% +10% / 1 / 50 Hz
Nominal current:	3 A
Nominal power:	250 W
Protection grade:	IP 30
Working temperature range:	0-40°C
Humidity limits:	10-80% R.H. not condensable
Container:	Tecno-polymer class V0
Dimensions:	105 x 90 x 70 mm
Weight:	316 g

### Connection example (UTC 10-40)



TECHNICAL MANUAL

All data in this manual are no-binding for Ventilclima company who takes the right, without advance notice obligation, to provide to any modification for product improvements.

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