

# UTW70



## Ductable units series



The ductable fancoil units of medium pressure series UTW70 have been studied to grant easy installation and maintenance.

The dimensions are very compact if compared with analogous units giving same performances and this allows the installation in places where the space is limited.

The maintenance is facilitated by the fact that all components are accessible removing only one panel.

A wide range of options and accessories and the possibility to customize the product during project, assembly and installation gives to the series UTW70 versatility.

- Cooling capacity ranging from 2,1 kW to 27
- Air flow ranging from 500 m<sup>3</sup>/h to 4000 pressure 70 Pa
- Heating capacity ranging from 3 to 52 kW.



## Structure

- The structure is made of galvanized metal sheet drain pan is realized in Stainless steel INOX or painted with epoxy powders in function of extra protection against corrosion.
- In addition the drain pan in stainless steel INOX designed with a profile that avoids the accumulation of the condensate.

## Fan

- Direct drive fan, forward blades made in galvanized steel, impeller dynamically and statically balanced.

## Filter

- Panel filter type class G3, washable and renewable.

## Option

- Class G5 also available.

## Heat exchanger

- Standard heating/cooling coil made in copper pipes and aluminum fins.
- Air vent valve included.

## Drip trays

- Made in INOX
- Auxiliary drip tray in galvanized steel, yielding the condensates dripping from headers and valves.

The air handling units UTW70 series have been designed and manufactured to meet a large series of requests from the industrial and construction sector .

They are the result of decades of experience in the field of air treatment and they summarize the techniques and suggestions received from installers and end-users.

You can select the units among 3 sizes and 19 versions with different power; vertical (UTW70V) or horizontal (UTW70), with a large selection of accessories.

These units UTW70 allow a wide range of thermo hygrometric treatments and filtration efficiencies that make them suitable for many applications. The ease of installation, flexibility of the product and the quality of the finishing put these units at the top of the market.

## Configuration

- Ceiling mounted type for concealed installation, with rear suction and horizontal air outlet.
- Wall vertical mounted type for concealed in frontal suction and vertical or horizontal air outlet.

## Control of the unit

- The ductable unit UTW70 can be equipped with two different type of control systems.
- Controlled in room by thermostat.
- Controlled by PLC, remote, through a bus line.

## Valves

- The fancoil can be equipped with 3way or 2way valve complete with actuator for ON-OFF or proportional control.
- All models are equipped with terminal box.

## Options

The following option are available:

- Auxiliary coils with 1 or 2 rows
- Suction and discharge plenum with spigots and flange for circular or rectangular duct.
- Alarm signal detecting eventual motor failing.
- Available also with 6 rows main coil

All units of the UTW70 series are built in compliance with EEC Directives 89/392, 91/368, 93/44, 93/68, 73/23, 108/EC, ErP energy consumption 125/EC, and thus meet the essential requirements about safety and health protection required by these Directives. The project is respectful of these standards and, for this purpose, the machines are equipped with devices to prevent from improper use of the units or from the interventions made by unskilled technicians.

The technical staff is focused to the constant search for the highest quality components looking for high reliability and durability.

On request it is available to make customizations to each type of plant.

TECHNICAL DATA		speed	3	5	7	8	10	11	14	16	17	23
Air flow (a)	1 max	m <sup>3</sup> /h	1005	1005	1180	1650	1850	1870	2500	3010	3250	3950
	2 med	m <sup>3</sup> /h	780	780	1210	1470	1400	1650	1930	1800	2200	2750
	3 min	m <sup>3</sup> /h	530	530	1000	1180	1130	1370	1430	1200	1450	1350
Total cooling Capacity (b)	1 max	kW	3.17	4.95	6.55	8.56	10.7	11.55	14.12	16.15	17	23
	2 med	kW	2.6	4.2	6.35	7.5	8.5	10	12.1	11	13	17.5
	3 min	kW	2.1	3.2	5.95	6.8	7.6	9.2	9.7	8.5	9.7	10.5
Sensible capacity (b)	1 max	kW	2.9	4.1	5.3	7	8.5	9.2	10.9	13	14.4	18.2
	2 med	kW	2.4	3.4	5	6.3	6.8	8.4	9.3	8.8	10.7	13.5
	3 min	kW	1.82	2.5	4.6	5.3	5.6	7.1	7.3	6.4	7.5	7.4
Pressure drop (b)	1 max	kPa	7.7	25	28	23.5	21	24.6	17.9	23	25.3	21.4
Heating capacity (c) 2 pipe system	1 max	kW	4.4	6.2	7.9	10.26	12.88	13.7	17.9	19.5	21	27.7
	2 med	kW	3.8	5.1	7.7	9.41	10.59	12.4	14.7	13.4	16	21
	3 min	kW	2.92	3.9	7.1	8.04	8.84	10.72	11.9	9.7	11	12
Pressure drop (c) 2 pipe system	1 max	kPa	5.9	19.3	22.1	18.2	16	20.6	16.3	18.9	21.1	17.7
Heating capacity (d) 4-pipe system, 1 Additional row	1 max	kW	4.3	4.3	4.7	7.7	8	8.5	12	15.3	15.8	17.7
	2 med	kW	3.7	3.7	4.5	7	7	7.9	10	11	12.5	14.2
	3 min	kW	3	3	4.3	6.2	6	7	8.6	8.4	9.5	9
Pressure drop (d) 4-pipe system, 1 Additional row	1 max	kPa	4.8	4.8	5.6	7.6	9	9.7	7.7	11.9	12.8	16
Heating capacity (d) 4 pipe system, 2 Additional rows	1 max	kW	7.8	7.8	8	13	13.5	15	22	25.4	26.7	30.3
	2 med	kW	6.5	6.5	7.8	12	11.5	13.7	18.4	17.5	20.4	23.3
	3 min	kW	5	5	7.5	10.3	9.8	11.8	14.8	12	14.7	13.9
Pressure drop (d) 4 pipe system, 2 Additional rows	1 max	kPa	9.2	9.2	10.8	7.9	9	10.6	7	9.4	10.3	13.3
Sound power (e)	3	dB(A)	64.1	64.1	67	60.5	63.8	64	62.5	62.9	60.9	61.5
Sound pressure (f)	3	dB(A)	55.7	55.7	58.6	52.1	55.4	55.6	54.1	54.6	52.5	53.1
Fan absorption power (g)	1 max	W	180	180	236	256	308	308	660	660	760	960
	1 max	A	0.84	0.84	1.20	1.16	1.39	1.39	2.97	2.97	3.37	4.40

(a) Data measured with static outlet pressure of 70Pa

(b) Capacity in accordance with EUROVENT specifications. Cooling with air: 27°C -47%rH and water: 7-12°C

(c) Capacity in accordance with EUROVENT specifications. Heating with air: 20°C and water: 50°C. Same water flow of conditioning.

(d) Capacity in accordance with EUROVENT specifications. Heating with air: 20°C and water: 70/60°C.

(e) Sound power at min speed.

(f) Sound pressure at min speed: reflective surface at 1,5m, in a 100m<sup>3</sup> room with reverberation time of 0,3s

(g) The voltage is standard 230V-50Hz

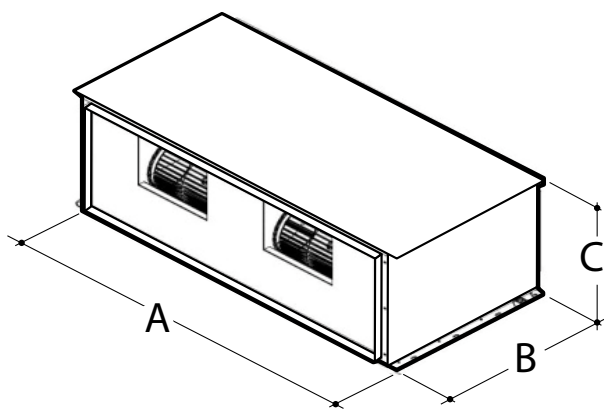
## 2 pipe system, 6rows coil

TECHNICAL DATA		speed	5-6R	7-6R	8-6R	10-6R	11-6R	14-6R	16-6R	17-6R	23-6R
Air flow (a)	1 max	m <sup>3</sup> /h	870	1050	1400	1650	1700	2350	2840	3010	3710
	2 med	m <sup>3</sup> /h	700	1010	1310	1310	1540	1880	1765	2135	2690
	3 min	m <sup>3</sup> /h	510	940	1090	1070	1280	1430	1187	1400	1300
Total cooling Capacity (b)	1 max	kW	6.6	7.8	11.4	12.6	12.8	18.5	21.7	23	27
	2 med	kW	5.5	7.4	10.2	10.4	11.8	15.3	14.6	16.9	20.5
	3 min	kW	4.3	7	8.8	8.9	10	12	11	12.3	12.4
Sensible capacity (b)	1 max	kW	4.6	5.4	7.9	8.9	9	13.3	15.5	16.3	19
	2 med	kW	4	5	7.3	7.4	8.4	22	10.5	12.3	15
	3 min	kW	3	4.8	6.4	6.4	7	8.5	8.2	8.7	9
Pressure drop (b)	1 max	kPa	22	30	27	30	40	35	25	32	40
Heating capacity (c)	1 max	kW	12.5	14.7	21	23.6	24	34.9	41.3	43	52
	2 med	kW	10.5	14	19.3	19.3	22	28.5	27	32.1	39
	3 min	kW	7.9	13.1	16.2	16.2	19	22	19	22.2	21
Pressure drop (c)	1 max	kPa	20	25	20	25	26	13	18	25	30

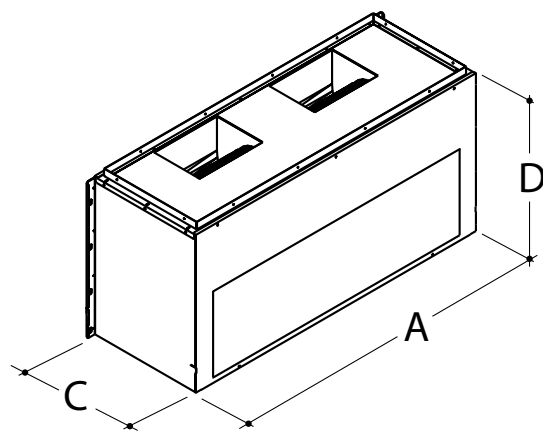
(a) Data measured with static outlet pressure of 70 Pa

(b) Room temperature: 27°C – 47% R.H. Water temperature (in/out): 7/12°C

(c) Room temperature: 20°C Water temperature (in/out): 70/60°C



Horizontal version



Vertical version

SIZE		3	5	7	8	10	11	14	16	17	23
Dimensions	A mm	735	735	735	1175	1175	1175	1375	1375	1375	1375
	B mm	502	502	502	502	502	502	655	655	655	655
	C mm	298	298	298	298	298	298	473	473	473	473
	D mm	622	622	622	622	622	622	855	855	855	855
Weight H	Kg	36	37	37	37.5	54	57	89	89.5	90	96
Weight V	Kg	40	41	41	43.5	60	63	97	97.5	98	104



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