

> UT REC DP

DOUBLE PANEL HEAT RECOVERY UNITS



Units Series

Unit type
UT-REC DP H Horizontal unit
UT-REC DP V vertical unit

Unit specifications

■ **SUPPORT STRUCTURE:** in strong extruded aluminium profiles and double panel in galvanised steel sheet inside and prepainted galvanised sheet steel outside, with thermal insulation and soundproofing in hot-injected polyurethane foam, thick. 23 mm.

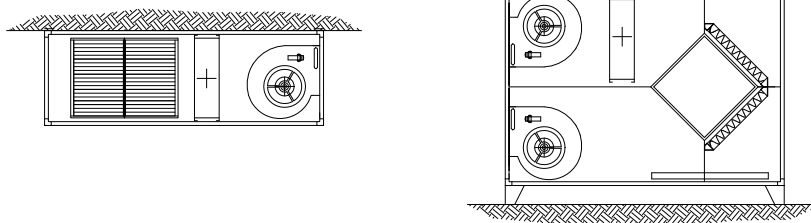
- **HEAT RECUPERATOR:** static-type in aluminium enabling recovery of the heat otherwise lost. Efficiency is guaranteed by the quality of the insulation.
- **CONDENSATE TRAY:** in sheet steel, it is placed under the recuperator for the condensate in summer mode.
- **AIR FILTER:** made with pleated filter cells, class G4 (ponderal eff. 90.1%), metal frame and electrowelded screen, easily removed from side.
- **FAN MOTOR:** a directly coupled type, three-speed with internal thermal protection and startup capacitor always on, with wheel statically and dynamically balanced to minimise noise and vibration.

Main accessories/Options

Hot water post-heating coil providing for the use of a 2-row coil.
 1-stage electric post-heating section.
 Safety microswitch
 Speed selector CV3
 Protection roof

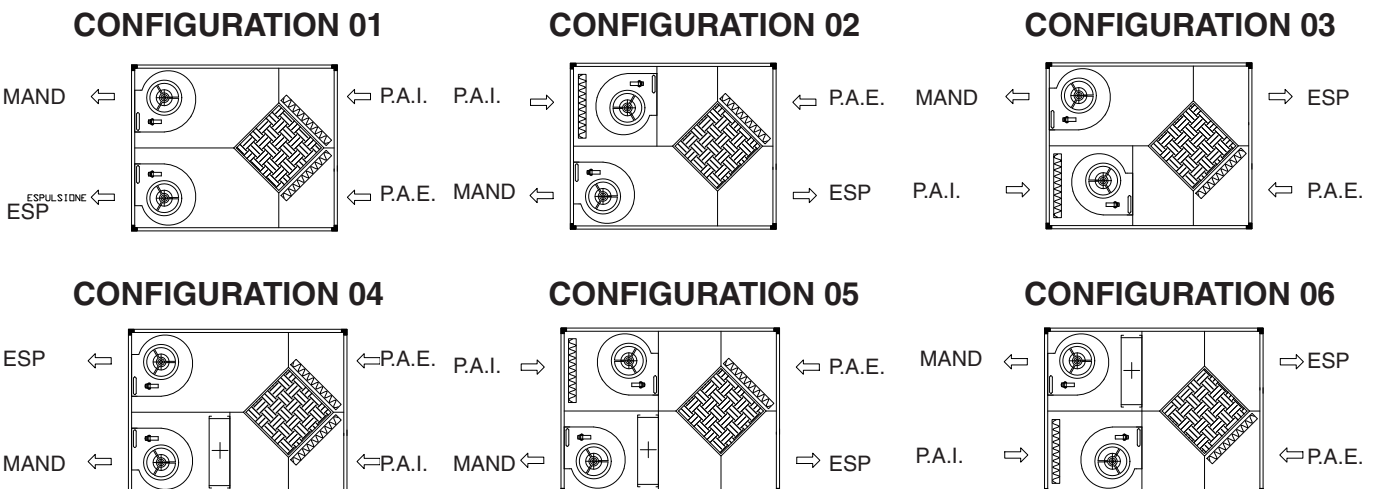
Layout

Unit are available in horizontal and vertical layout



Configuration

Depending on the configuration of the plant duct are available six possible configuration of recovery.



Note: Always indicate layout and configuration when ordering

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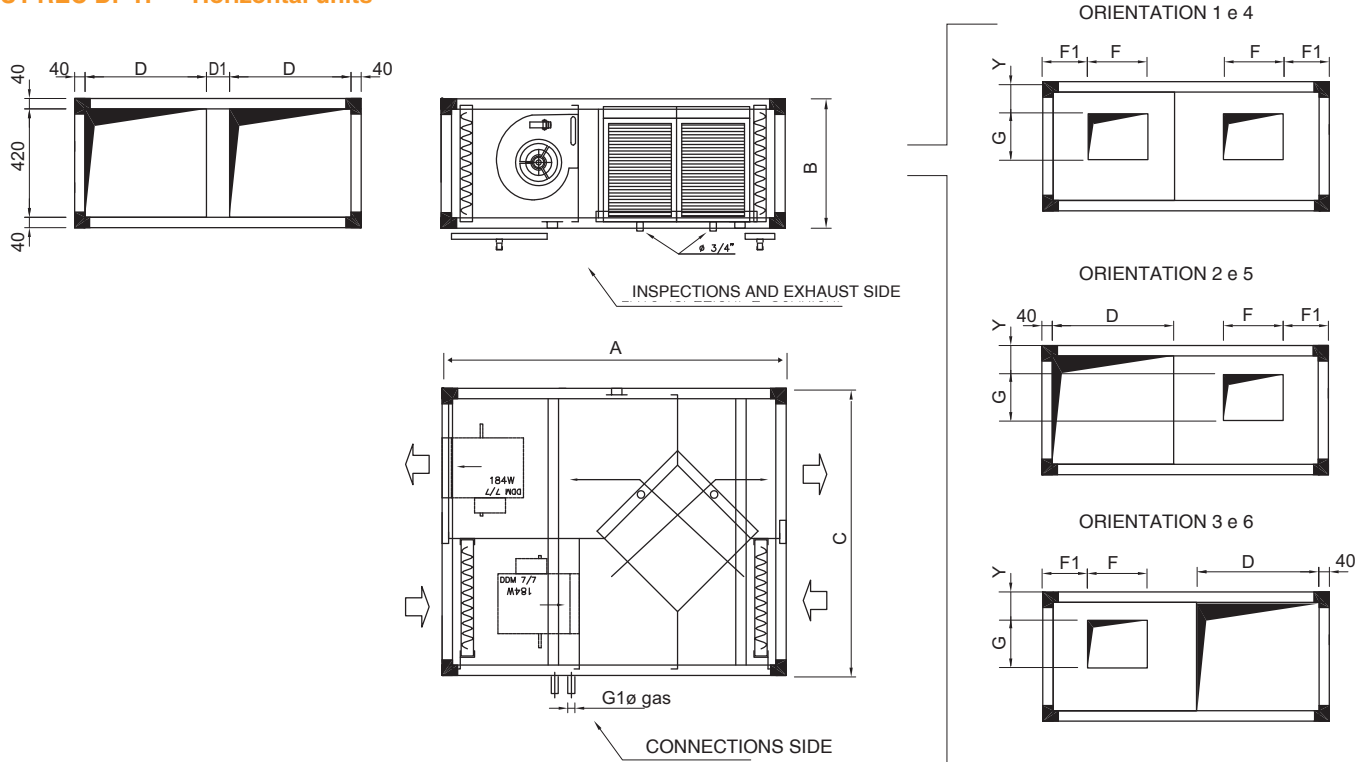
Supply fan	005	01	02	03	04	
Air flow	500	1.000	2.000	3.000	4.000	m³/h
Static pressure	162	137	144	208	172	Pa
Absorption max. total	0,72	1,7	5,4	5,9	3,3	A
Power available to the axis	60	184	550	550	750	W
number of speeds	4	3	3	3	2	n°
Poli	2	4	4	4	4	n°
Degree of protection	32	55	55	10	55	IP
Class of insulation	B	F	F	F	F	Tipo
Sound pressure level at the mouth of the outlet fan (1 meter away) *	59	62	66	65	69	dB(A)
Sound pressure level on the suction fan (1 meter away) *	58	61	65	64	68	dB(A)
Pressure level radiated sound pressure level (at 1 meter away from carpentry) *	46	48	52	57	57	dB(A)
Supply	230/1/50	230/1/50	230/1/50	230/1/50	400/3/50	V/ph/Hz
Return fan	005	01	02	03	04	
Air flow	500	1.000	2.000	3.000	4.000	m³/h
Static pressure	160	134	135	200	161	Pa
Absorption max. total	0,72	1,7	5,4	5,9	3,3	A
Power available to the axis	60	184	550	550	750	W
number of speeds	4	3	3	3	2	n°
Poli	2	4	4	4	4	n°
Degree of protection	32	55	55	10	55	IP
Class of insulation	B	F	F	F	F	Tipo
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Pressure level radiated sound pressure level (at 1 meter away from carpentry) *	46	48	52	57	57	dB(A)
Supply	230/1/50	230/1/50	230/1/50	230/1/50	400/3/50	V/ph/Hz
Performance recovery	005	01	02	03	04	
Recovery type / Recuperator	cross flow and static type / High efficiency aluminium plate exchanger					e
Winter conditions						
P.A.I. (Room air)	22/50	22/50	22/50	22/50	22/50	°C/%
ESP (Exhaust air)	9,5/94,8	10,6/91,4	9,6/94,4	10,3/92,8	10,4/92,4	°C/%
P.A.E. (Ambient air)	-5,0/80	-5,0/80	-5,0/80	-5,0/80	-5,0/80	°C/%
MAND (Fresh air)	10,7/24,9	8,8/28,1	10,4/25,3	9,3/27,2	9,1/27,6	°C/%
REC (Heating recovery capacity)	2,62	4,63	10,3	14,4	18,9	kW
Efficiency recovery (sensible/latent)	58	51,2	57,1	53,1	52,3	%
Accessory BW	005	01	02	03	04	
Heat exchanger type	rame / alluminio					Tipo
Number of ranks	2	2	2	2	2	n°
Coil	1/2"	1/2"	3/4"	3/4"	3/4"	ø
Inlet air temperature	10,7	8,8	10,4	9,3	9,1	°C
Water 70/60						
Leaving air temperature	32,8	31,5	25,5	24,3	24,3	°C
Water temperature in / out	70/60	70/60	70/60	70/60	70/60	°C
Heat output	3,7	7,7	10,2	15,2	20,4	kW
Pressure drop on the air side	13	15	45	54	57	Pa
Pressure drop on the water side	1,2	7	4,1	7,8	11,1	kPa
Water 45/40						
Leaving air temperature	23,6	22,4	19,2	18,2	18,1	°C
Water temperature in / out	45/40	45/40	45/40	45/40	45/40	°C
Heat output	2,2	4,6	5,9	9	12,2	kW
Pressure drop on the air side	13	15	45	54	56	Pa
Pressure drop on the water side	1,6	10,1	4,7	10,1	15,9	kPa
Weight	6	9	9	10	12	kg
Accessory BE	005	01	02	03	04	
Power rating	2,5	5	10	15	15	kW
Stadiums	1	1	2	2	2	n°
Power supply	400/3/50					V/ph/Hz
Current consumption	3,61	7,22	14,43	21,65	21,65	A
Air temperature input / output	10,7/25,7	8,8/23,8	10,4/25,4	9,3/24,3	9,1/20,35	°C
Weight	5	6	7	8	9	kg

*: Theoretical values estimated using a tolerance of 2 [dBA]

DIMENSIONS

(drawing indicative of the series)

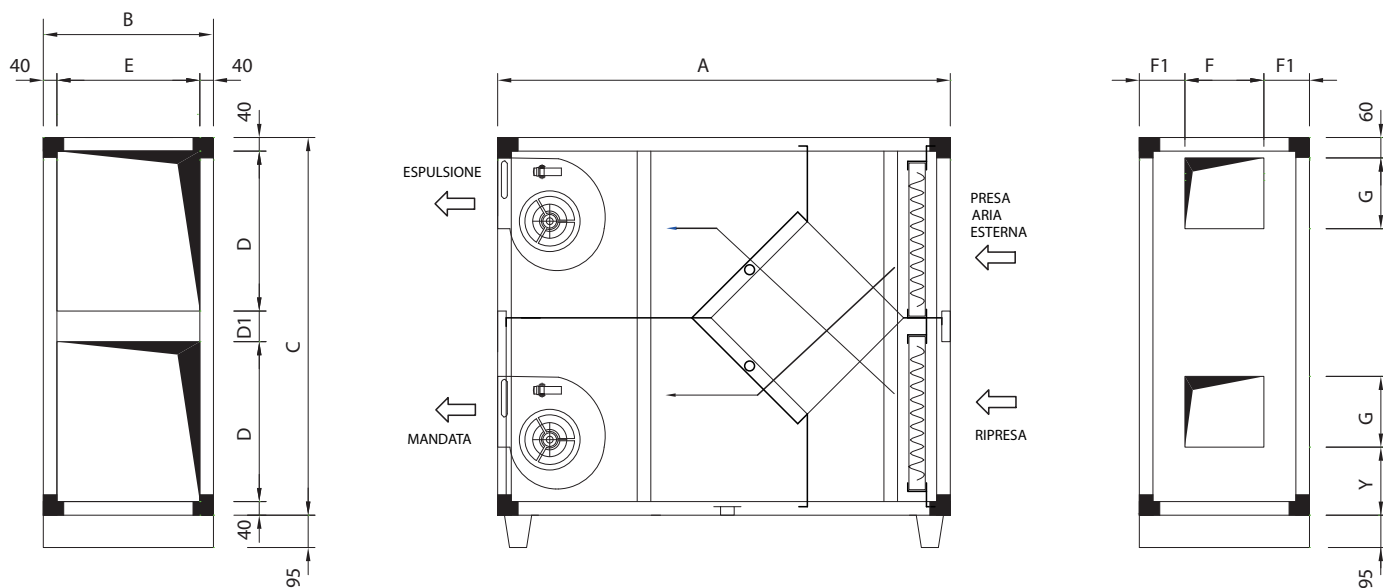
UT-REC DP H Horizontal units



Mod.	005	01	02	03	04	
A	1170	1330	1450	1700	1800	mm
B	400	500	500	550	650	mm
C	1040	1110	1140	1250	1400	mm
D	440	470	485	540	615	mm
D1	80	90	90	90	90	mm
E	320	420	420	470	570	mm
F	160	232	232	265	330	mm
F1	200	180	155	225	220	mm
G	97	208	208	289	290	mm
G1 (1)	1/2"	1/2"	3/4"	3/4"	3/4"	Ø gas
Y	86	60	60	60	60	mm
weight	89	124	145	186	229	kg

(1) Only if there is a water coil reheat BW

UT-REC DP V vertical unit



Mod.	005	01	02	03	04	
A	1170	1330	1450	1700	1800	mm
B	400	500	500	550	650	mm
C	1040	1110	1140	1250	1400	mm
D	440	470	485	540	615	mm
D1	80	90	90	90	90	mm
E	320	420	420	470	570	mm
F	160	232	298	265	330	mm
F1	120	134	101	142.5	160	mm
G	97	208	262	289	290	mm
Y	200	200	200	250	250	mm
weight	89	124	145	186	229	kg