



DUO DP

Heat recovery ventilator configurable on site

- Horizontal and/or vertical configuration, with or without motorized by-pass
 - Extruded alloy aluminium profiles
 - Casing in double skin steel panels, Aluzinc, sandwiched on injected polyurethane foam, thickness 25mm and density 42 Kg/m³
 - Cross-flow aluminium heat exchanger
 - 3 or 4 speed direct driven AC blowers 230V-1-50Hz (up to size 4)
 - 1 speed direct driven AC blowers 400V-3-50Hz (for size 5)
 - Filters (EN 779): G4 class for exhaust air - F7 class low pressure loss for fresh air
 - Also available in plug-n-play versions with electrical panel and microprocessor control pre-wired on board
- RANGE: nr. 6 models from 400 m³/h up to 5.600 m³/h airflow



DELIVERY TIMING:
2 weeks (whitout regulation)
4 weeks (with plug-n-play versions)



SEE THE QUICK COMPARISON TABLE OF THE MICROPROCESSOR CONTROLLERS:
see page 9



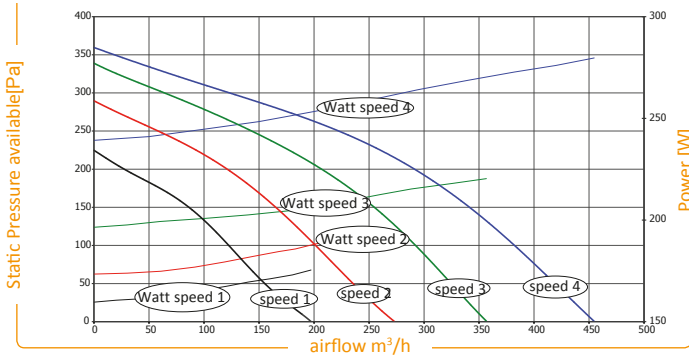
TECHNICAL DATA:
www.utek.eu



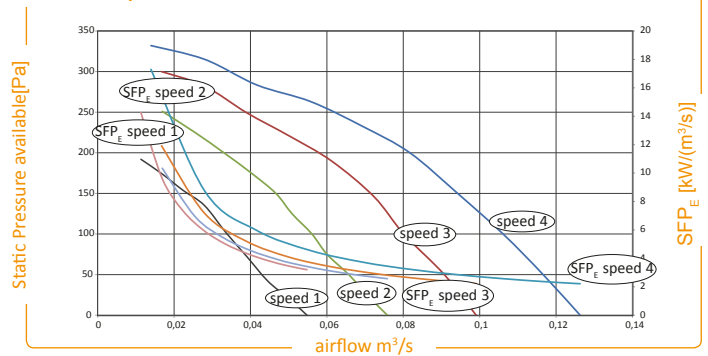
CONFIGURATION SOFTWARE:
www.airfactory.it

PERFORMANCES

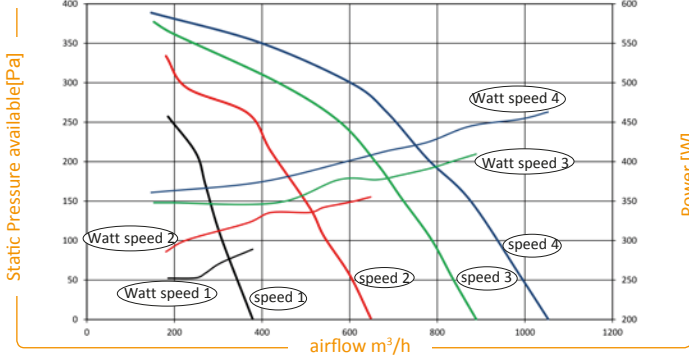
DUO 1 DP H/V



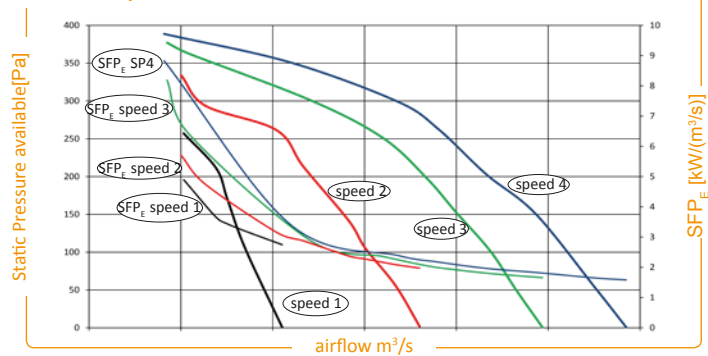
DUO 1 DP H/V



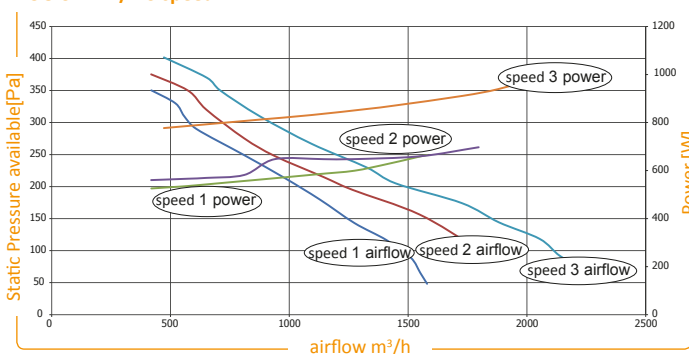
DUO 2 DP H/V



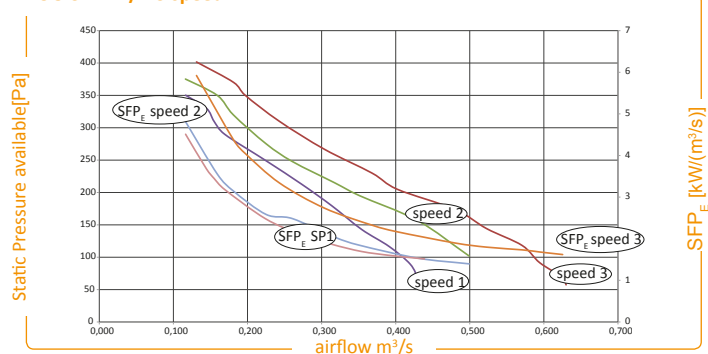
DUO 2 DP H/V



DUO 3 DP H/V 3 speed



DUO 3 DP H/V 3 speed

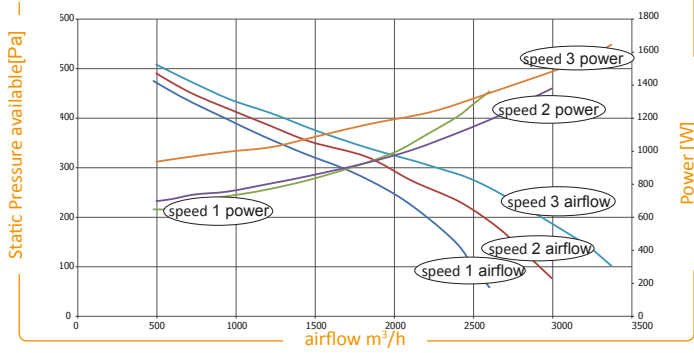




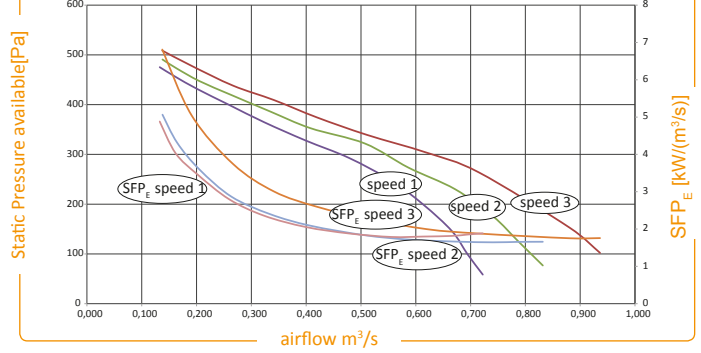
HEAT RECOVERY VENTILATOR FOR ENERGY EFFICIENT COMMERCIAL BUILDINGS

($\eta = \text{min. } 50\% \text{ max } >70\%$)

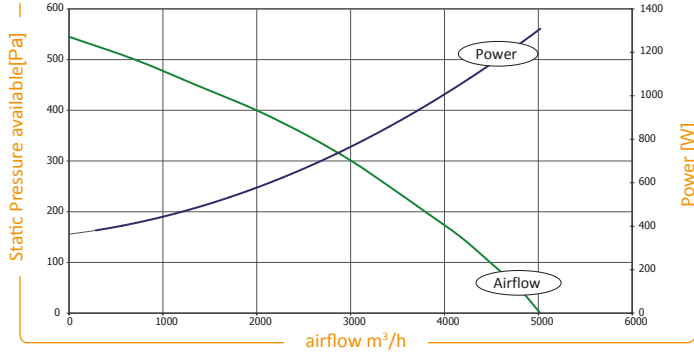
DUO 4 DP H/V 3 speed



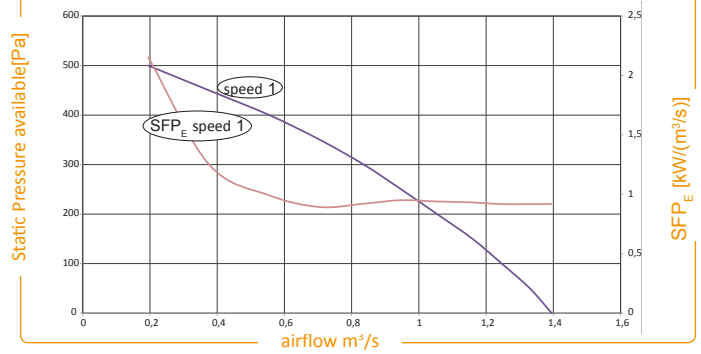
DUO 4 DP H/V 3 speed



DUO 5 DP H/V 1 speed

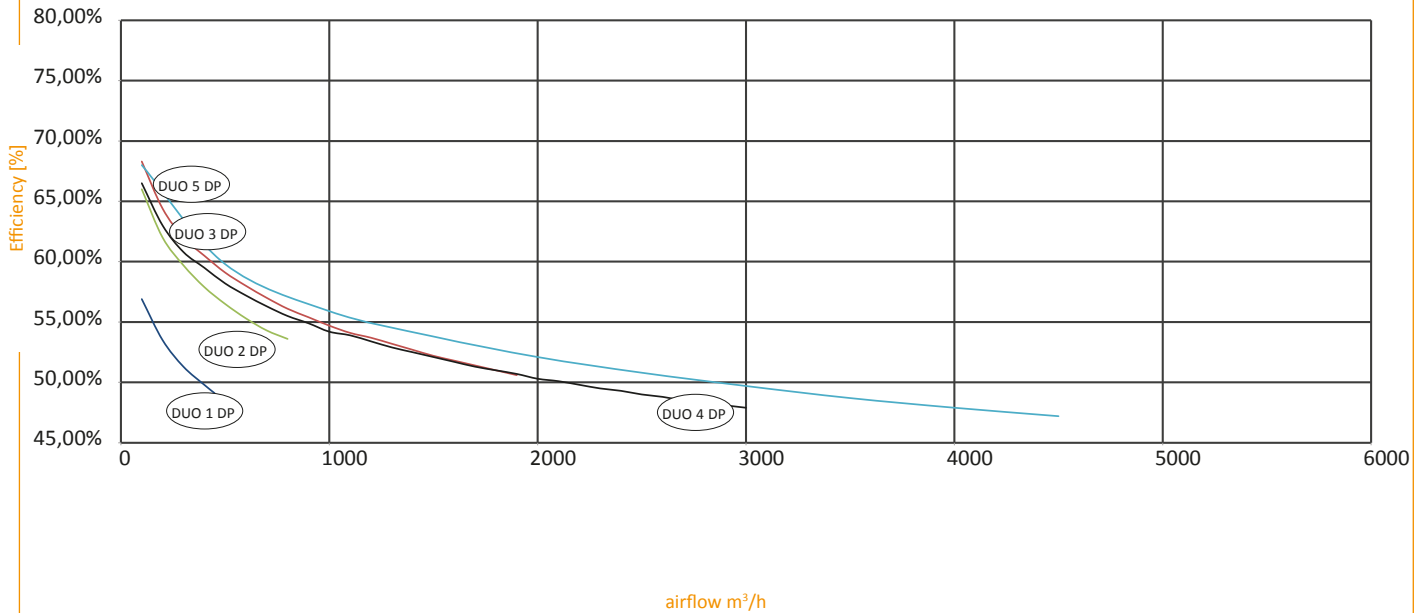


DUO 5 DP H/V 1 speed



HEAT RECOVERY PERFORMANCE (sensible efficiency)

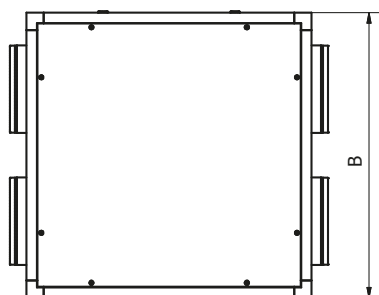
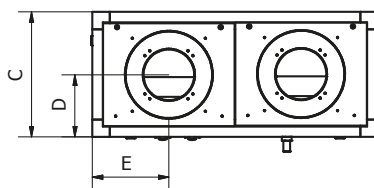
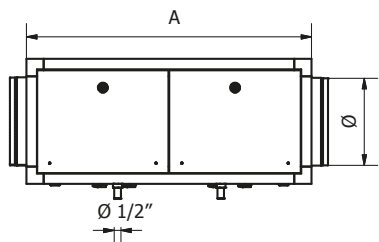
Values referred to the following conditions: T_{bs} external air - 5°C; U.R. external 80%; T_{bs} environment 20°C; U.R. environment 50%; nominal airflow





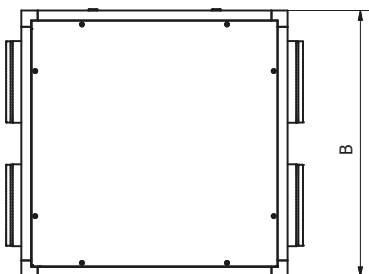
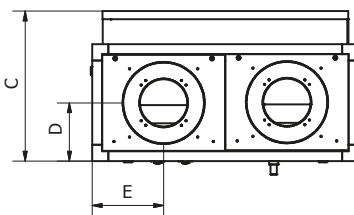
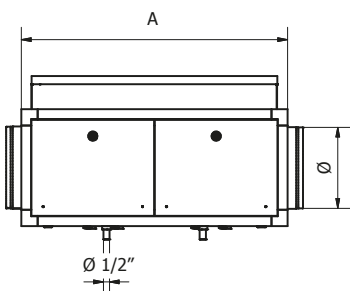
DIMENSION (mm) and WEIGHT (kg) HORIZONTAL

WITHOUT BYPASS



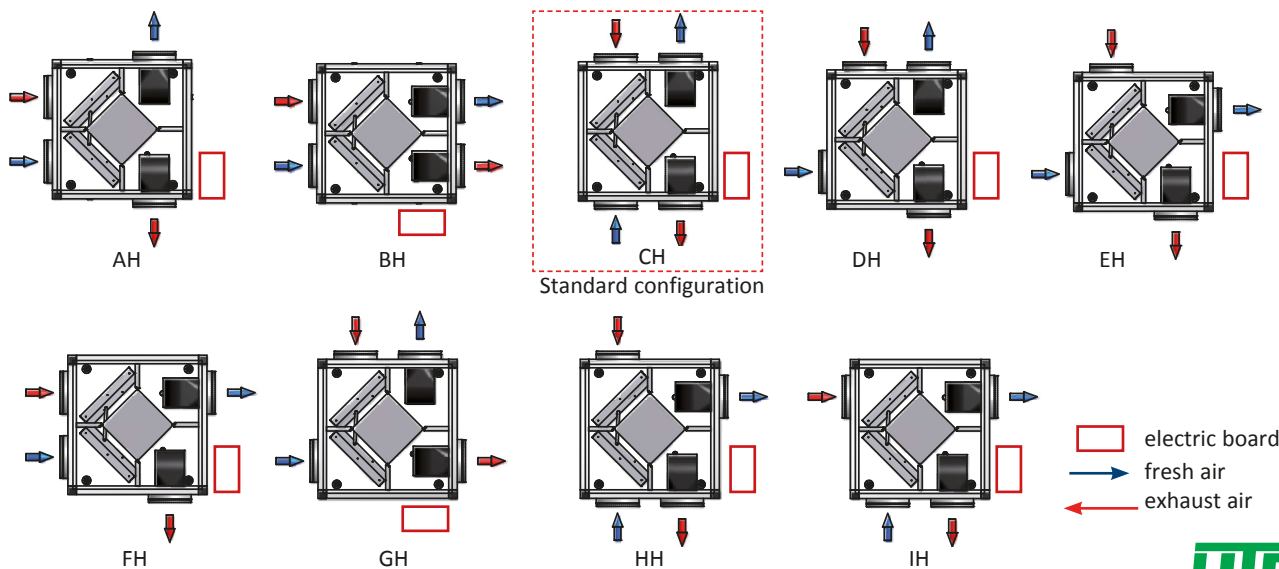
MODEL	A	B	C	D	E	Ø	Weight
DUO 1 DP	640	640	345	172,5	175	200	32
DUO 2 DP	820	820	360	180	220	250	44
DUO 3 DP	1040	1040	535	315	275	315	91
DUO 4 DP	1270	1270	630	360	332,5	355	125
DUO 5 DP	1200	1300	855	427,5	305	450	171

WITH BYPASS



MODEL	A	B	C	D	E	Ø	Weight
DUO 1 DP	640	640	450	172,5	175	200	41
DUO 2 DP	820	820	465	180	220	250	56
DUO 3 DP	1040	1040	640	315	275	315	107
DUO 4 DP	1270	1270	735	360	332,5	355	146
DUO 5 DP	1200	1300	855	427,5	305	450	171

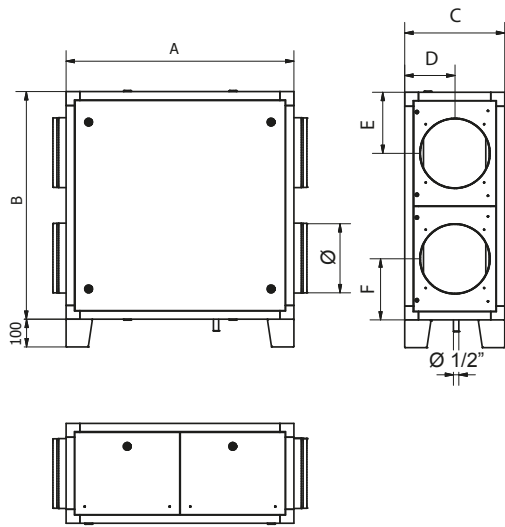
HORIZONTAL CONFIGURATION





DIMENSION (mm) and WEIGHT (kg) VERTICAL

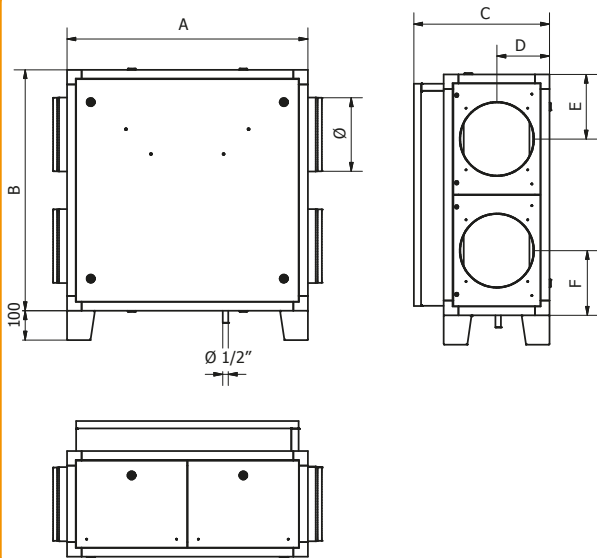
WITHOUT BYPASS



MODEL	A	B	C	D	E	F	Ø	Weight
DUO 1 DP	640	640	345	172,5	175	175	200	32
DUO 2 DP	820	820	360	180	220	220	250	44
DUO 3 DP	1040	1040	535	315	225	325	315	91
DUO 4 DP	1270	1270	630	360	240	425	355	125
DUO 5 DP*	1300	1200	855	427,5	305	305	450	171
DUO 5 DP**	1200	1300	855	427,5	305	305	450	171

* AV/CV configuration
** BV/HV configuration

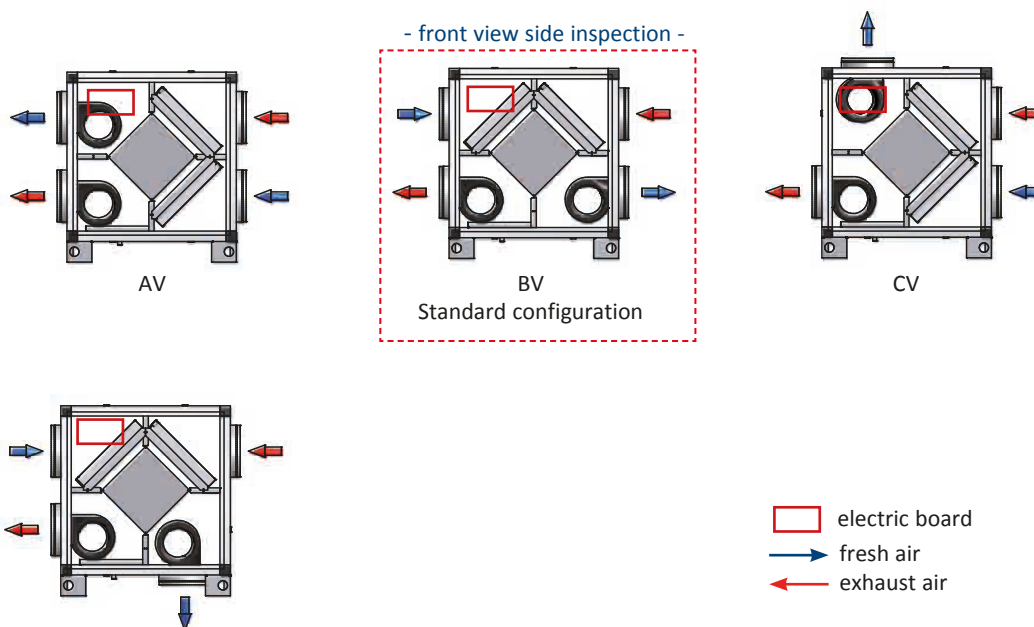
WITH BYPASS



MODEL	A	B	C	D	E	F	Ø	Weight
DUO 1 DP	640	640	450	172,5	175	175	200	41
DUO 2 DP	820	820	465	180	220	220	250	56
DUO 3 DP	1040	1040	640	315	225	325	315	107
DUO 4 DP	1270	1270	735	360	240	425	355	146
DUO 5 DP*	1300	1200	855	427,5	305	305	450	171
DUO 5 DP**	1200	1300	855	427,5	305	305	450	171

* AV/CV configuration
**BV/HV configuration

VERTICAL CONFIGURATION





without by-pass

Model	Code	Price	Model	Code	Price
DUO 1 DP	2AA000010BCH	€ 1.575,00	DUO 1 DP	2AA000010BBV	€ 1.654,00
DUO 2 DP	2AY000010BCH	€ 1.898,00	DUO 2 DP	2AY000010BBV	€ 1.993,40
DUO 3 DP	2AC000010BCH	€ 2.468,00	DUO 3 DP	2AC000010BBV	€ 2.591,50
DUO 4 DP	2AD000010BCH	€ 3.570,00	DUO 4 DP	2AD000010BBV	€ 3.749,00
DUO 5 DP	2AE000010BCH	€ 4.988,00	DUO 5 DP	2AE000010BBV	€ 5.237,50

DUO DP

Plug-n-play versions with microprocessor controller pre-wired on board

Model	Code	Price	Model	Code	Price
DUO 1 DP EVO PH..	2AA0CA010BCH	€ 2.547,00	DUO 1 DP EVO PH..	2AA0CA010BBV	€ 2.626,00
DUO 2 DP EVO PH..	2AY0CA010BCH	€ 2.871,00	DUO 2 DP EVO PH..	2AY0CA010BBV	€ 2.966,00
DUO 3 DP EVO PH..	2AC0CA010BCH	€ 3.440,00	DUO 3 DP EVO PH..	2AC0CA010BBV	€ 3.564,00
DUO 4 DP EVO PH.	2AD0CA010BCH	€ 4.542,00	DUO 4 DP EVO PH.	2AD0CA010BBV	€ 4.721,00
DUO 5 DP EVO PH..	2AE0CN010BCH	€ 8.183,00	DUO 5 DP EVO PH..	2AE0CN010BBV	€ 8.432,00
DUO 1 DP EVO D PH..	2AA0TA010BCH	€ 2.701,00	DUO 1 DP EVO D PH..	2AA0TA010BBV	€ 2.779,00
DUO 2 DP EVO D PH..	2AY0TA010BCH	€ 3.024,00	DUO 2 DP EVO D PH..	2AY0TA010BBV	€ 3.120,00
DUO 3 DP EVO D PH..	2AC0TA010BCH	€ 3.593,00	DUO 3 DP EVO D PH..	2AC0TA010BBV	€ 3.717,00
DUO 4 DP EVO D PH.	2AD0TA010BCH	€ 4.696,00	DUO 4 DP EVO D PH.	2AD0TA010BBV	€ 4.874,00
DUO 5 DP EVO D PH..	2AE0TN010BCH	€ 8.336,00	DUO 5 DP EVO D PH..	2AE0TN010BBV	€ 8.585,00

without regulation

plug-n-play versions



with by-pass

Model	Code	Price	Model	Code	Price
DUO 1 DP	2AA000020BCH	€ 1.880,00	DUO 1 DP	2AA000020BBV	€ 1.959,00
DUO 2 DP	2AY000020BCH	€ 2.240,00	DUO 2 DP	2AY000020BBV	€ 2.335,00
DUO 3 DP	2AC000020BCH	€ 2.836,00	DUO 3 DP	2AC000020BBV	€ 2.959,00
DUO 4 DP	2AD000020BCH	€ 3.990,40	DUO 4 DP	2AD000020BBV	€ 4.169,00
DUO 5 DP	2AE000020BCH	€ 6.040,00	DUO 5 DP	2AE000020BBV	€ 6.290,00

DUO DP

Plug-n-play versions with microprocessor controller pre-wired on board

Model	Code	Price	Model	Code	Price
DUO 1 DP EVO PH..	2AA0CA020BCH	€ 2.853,00	DUO 1 DP EVO PH..	2AA0CA020BBV	€ 2.932,00
DUO 2 DP EVO PH..	2AY0CA020BCH	€ 3.212,00	DUO 2 DP EVO PH..	2AY0CA020BBV	€ 3.308,00
DUO 3 DP EVO PH..	2AC0CA020BCH	€ 3.808,00	DUO 3 DP EVO PH..	2AC0CA020BBV	€ 3.932,00
DUO 4 DP EVO PH.	2AD0CA020BCH	€ 4.963,00	DUO 4 DP EVO PH.	2AD0CA020BBV	€ 5.142,00
DUO 5 DP EVO PH..	2AE0CN020BCH	€ 9.235,00	DUO 5 DP EVO PH..	2AE0CN020BBV	€ 9.484,00
DUO 1 DP EVO D PH..	2AA0TA020BCH	€ 3.006,00	DUO 1 DP EVO D PH..	2AA0TA020BBV	€ 3.085,00
DUO 2 DP EVO D PH..	2AY0TA020BCH	€ 3.365,00	DUO 2 DP EVO D PH..	2AY0TA020BBV	€ 3.461,00
DUO 3 DP EVO D PH..	2AC0TA020BCH	€ 3.962,00	DUO 3 DP EVO D PH..	2AC0TA020BBV	€ 4.086,00
DUO 4 DP EVO D PH.	2AD0TA020BCH	€ 5.117,00	DUO 4 DP EVO D PH.	2AD0TA020BBV	€ 5.295,00
DUO 5 DP EVO D PH..	2AE0TN020BCH	€ 9.388,00	DUO 5 DP EVO D PH..	2AE0TN020BBV	€ 9.637,00

without regulation

plug-n-play versions



TECHNICAL DATA

RCF..

ELECTRICAL HEATER OF DEICING

	DUO 1 DP	DUO 2 DP	DUO 3 DP	DUO 4 DP	DUO 5 DP
Nominal power (kW)	2	4	6	8 8	12
Voltage (V)	230	230	230	230 400	400
Phases (nr.)	1	1	1	1 3	3
Stages (nr.)	1	2	2	2 2	2
Current absorption (A)	8,5	17,5	26	34,78 12,17	31,6
Intake air temp. on exchanger (°C)	-3	-3	0	-5 -5	-5

Measured with external air temp. = -15°C nominal airflow

RCF ELECTRICAL HEATER OF POST-HEATING

	DUO 1 DP	DUO 2 DP	DUO 3 DP	DUO 4 DP	DUO 5 DP
Nominal power (kW)	2	4	6	8 8	12
Voltage (V)	230	230	230	230 400	400
Phases (nr.)	1	1	1	1 3	3
Stages (nr.)	1	2	2	2 2	2
Current absorption (A)	8,5	17,5	26	34,78 11,55	17,32
Intake air temp. on exchanger (°C)	20	20	21	20 20	22

Measured with intake air temp. = 8°C and nominal airflow

Loss of pressure between 2 and 10 Pa, on the air side of the RCF section

BA-AC POST-HEATING HOT WATER COIL 80°/70° C

	DUO 1 DP	DUO 2 DP	DUO 3 DP	DUO 4 DP	DUO 5 DP
Rows (nr.)	2	2	2	2	2
Thermal yield (kW)	2,62	5,75	10,67	14,29	30
Replacement air outlet temp. (°C)	23,3	29,2	24,4	21,9	29
Air side pressure loss (Pa)	16	32	31	27	60
Water side pressure loss (kPa)	1	2,5	41	21	10
Water side connection size (Ø)	1/2"	1/2"	1/2"	1	1

Values referring to the following conditions: water 80°/70°C; Intake air temp. 8°C; nominal airflow

The tables of thermal yield are available on [Accessories](#) booklet

BA-AT POST-HEATING TEMPERATE WATER COIL 45°/35° C

	DUO 1 DP	DUO 2 DP	DUO 3 DP	DUO 4 DP	DUO 5 DP
Rows (nr.)	2	2	2	2	3
Thermal yield (kW)	2,2	3,7	7,9	13,3	20,6
Replacement air outlet temp. (°C)	21,0	22,2	20,3	21,2	22,1
Air side pressure loss (Pa)	90	65	95	80	90
Water side pressure loss (kPa)	0,9	2,1	4,9	5,7	6,1
Water side connection size (Ø)	1/2"	1/2"	3/4"	3/4"	3/4"

Values referring to the following conditions: water 45°/35°C; Intake air temp. 8°C; nominal airflow

The tables of thermal yield are available on [Accessories](#) booklet



OPTIONAL ACCESSORIES

SPEED CONTROL

Only for coupling to the unit without regulation



CV
Speed switch commutator

Coupling	Model	Code	Price
DUO 1 DP	CV4*	0G0000000001	€ 54,00
DUO 2 DP	CV4*	0G0000000001	€ 54,00
DUO 3 DP	CV3**	0G0000000002	€ 60,00
DUO 4 DP	CV3**	0G0000000002	€ 60,00

* 4 speed commutator

** 3 speed commutator

without regulator



RVT-NEW
Speed regulator 400V-350Hz

Coupling	Model	Code	Price
DUO 5 DP	RVT 6A*	0G0000000029	€ 1.022,00
DUO 6 DP	RVT 6A*	0G0000000029	€ 1.022,00
DUO 5 DP	RVT 9A**	0G0000000030	€ 1.022,00

* For nr 1 ventilator ** For nr 2 ventilator
Delivery time 3 weeks

ACCESSORIES FOR DEICING AND/OR POST-HEATING (for duct mounting)



RCF-SC*
Pre-riscaldatore elettrico

Coupling	Ø (mm)	kW	Code	Price
DUO 1 DP	200	2	0E302012000M	€ 810,00
DUO 2 DP	250	4	0E304022500M	€ 1.020,00
DUO 3 DP	315	6	0E306023150M	€ 1.117,00
DUO 4 DP	355	8	0E308023550M	€ 1.604,00
DUO 4 DP*	355	8	0E308023550T	€ 1.888,00
DUO 5 DP*	450	12	0E312024500T	€ 1.974,00

* only for EVO PH/EVO D-PH



BA-AC
Post-heating hot water coil*

Coupling	Code	Price
DUO 1 DP	0D0000000001	€ 259,00
DUO 2 DP	0D0000000002	€ 303,00
DUO 3 DP	0D0000000003	€ 392,00
DUO 4 DP	0D0000000004	€ 615,30
DUO 5 DP	0D0000000005	€ 757,00

* Without regulation. Temp. 80°/70°C



BA-AT
Post-heating temperate water coil*

Coupling	Code	Price
DUO 1 DP	0D0000000015	€ 669,00
DUO 2 DP	0D0000000016	€ 721,00
DUO 3 DP	0D0000000017	€ 847,00
DUO 4 DP	0D0000000018	€ 979,00
DUO 5 DP	0D0000000019	€ 1.163,00

* Temp. 45°/35°C

SENSORS



QPA 2002
CO₂, VOC air quality sensor

Code	Price
0G0000000013	€ 869,00



EE80
CO₂ Sensor

Code	Price
0G0000000012	€ 305,00



EE16
Humidity Sensor

Code	Price
0G0000000011	€ 305,00

OPTIONAL ACCESSORIES

AIR FILTRATION

(The claimed performances are guaranteed only by UTEK original filter low pressure loss)



G4
Spare filter

Coupling	Dimension (mm)	Filter/unit	Code	Price
DUO 1 DP	200x230x48	1	OF1200230048	€ 15,00
DUO 2 DP	250x400x48	1	OF1250400048	€ 17,00
DUO 3 DP	430x580x48	1	OF1430580048	€ 23,00
DUO 4 DP	500x625x48	1	OF1500625048	€ 35,00
DUO 5 DP	400x500x48	2	OF1400500048	€ 17,00



F7
Spare filter

Coupling	Dimension (mm)	Filter/unit	Code	Price
DUO 1 DP	200x230x48	1	OF5200230048	€ 47,00
DUO 2 DP	250x400x48	1	OF5250400048	€ 68,00
DUO 3 DP	430x580x48	1	OF5430580048	€ 123,00
DUO 4 DP	500x625x48	1	OF5500625048	€ 154,00
DUO 5 DP	400x500x48	2	OF5400500048	€ 101,00



F9
Optional filter

Coupling	Dimension (mm)	Filter/unit	Code	Price
DUO 1 DP	200x230x48	18	OFX000000001	€ 918,00
DUO 2 DP	250x400x48	16	OFX000000002	€ 1.296,00
DUO 3 DP	430x580x48	12	OFX000000003	€ 1.716,00
DUO 4 DP	500x625x48	10	OFX000000004	€ 1.910,00
DUO 5 DP	400x500x48	2	OFX000000005	€ 1.500,00

PROTECTIVE ACCESSORIES



T
Weather protective roof (horizontal configuration)

Coupling	without by-pass		with by-pass	
	Code	Price	Code	Price
DUO 1 DP	0CZ077007700	€ 137,00	0CZ077007701	€ 176,00
DUO 2 DP	0CZ098009800	€ 164,00	0CZ098009801	€ 206,00
DUO 3 DP	0CZ127012700	€ 211,00	0CZ127012701	€ 259,00
DUO 4 DP	0CZ157015700	€ 273,00	0CZ157015701	€ 346,00
DUO 5 DP	0CZ173016300	€ 301,00	0CZ173016300	€ 301,00



SKMF-R
Weather protection cowl

Coupling	Ø (mm)	Code	Price
DUO 1 DP	200	0I2000000200	€ 58,00
DUO 2 DP	250	0I2000000250	€ 65,00
DUO 3 DP	315	0I2000000315	€ 82,00
DUO 4 DP	355	0I2000000355	€ 90,00
DUO 5 DP	450	0I2000000450	€ 125,00



T
Weather protective roof (vertical configuration)

Coupling	without by-pass		with by-pass	
	Code	Price	Code	Price
DUO 1 DP	0CZ009006100	€ 135,00	0CZ009006100	€ 135,00
DUO 2 DP	0CZ011106401	€ 149,00	0CZ011106401	€ 149,00
DUO 3 DP	0CZ014009001	€ 189,00	0CZ014009001	€ 189,00
DUO 4 DP	0CZ117501001	€ 238,00	0CZ117501001	€ 238,00
DUO 5 DP	0CZ117102301	€ 291,00	0CZ117102301	€ 291,00



SIPH
Standard siphon

Code	Price
0J1000000000	€ 45,00

CLEANING AND SANITATION



AIRCO GEL

Code	Price
CADSANIFI001	€ 30,00



AIRCO SPRAY

Code	Price
CADSANIFI002	€ 27,00






















































FOAM CLEAN

Code	Price
CADSANIFI003	€ 30,00

MICROPROCESSOR CONTROLS

Quick comparison table of functions available

	 EVO PH	 EVO D PH-IP
<div style="display: flex; align-items: center;">  MANAGEMENT OF THE FANS: </div>		
1 Manual selection of the fan speed: <ul style="list-style-type: none"> a) OFF + 3 speed levels b) OFF + regulation of the fan speed in a range [MIN-MAX] (<i>alternative to 1a</i>) 	 	 
2 Unbalancing of the air fluxes, supply and extraction airflow: only with EC motor plug fans or double inverter		
3 Power reduction: limitation of the maximum speed of the fans (not available for units equipped with 3-speed fans)		
4 Fan speed: <ul style="list-style-type: none"> a) automatic management when coupled with CO₂, CO₂/VOC, RH sensor. Steps value on the working scale set by the user in 3 speed or proportional 0..100% b) Remote management of the fan speed through 0-10 VDC signal (<i>alternative to 4a</i>) 	 	 
5 Booster function (fan at maximum speed): <ul style="list-style-type: none"> a) for a fixed range of time set by the user b) managed by external contact-with interval time set by software (<i>alternative to 5c, 10, 15</i>) c) PIR strategy from a remote proximity switch NC (ex: presence detector) <i>alternative to 5b, 10, 15</i> 	  	  
<div style="display: flex; align-items: center;">  MANAGEMENT DEFROST AND / OR POST-AIR TREATMENT: </div>		
6 Prevention of the heat exchanger freezing: <ul style="list-style-type: none"> a) unbalancing of the air fluxes (default strategy: exhaust hot air MAX and supply cold air MIN) b) electric pre-heating proportional (<i>alternative to 6a e 6c</i>) c) a clean contact closure to allow the user to initiate a customized strategy (<i>alternative to 6a, 6b, 9</i>) 	  	  
7 Control of the supply air temperature setpoint (average ambient temperature - Tr): <ul style="list-style-type: none"> a) electric proportional post-heating b) water proportional post-heating c) water proportional post-cooling 	  	  
<div style="display: flex; align-items: center;">  ALARMS (DIAGNOSTICS) </div>		
8 Visualization of the running state of the unit: <ul style="list-style-type: none"> a) simplified (flashing LED) b) detailed (digital touch-screen display) 	 	 
9 Remote segnalation of the state of the unit: closed contact = ventilators ON; open contact = ventilators OFF or unpowered (<i>alternative to 6c</i>)		
10 Monitoring of the filters status by mean of the running life time of the unit (set by software) or through output signal from differential pressure switches across the filters (real measuring)		
11 Monitoring of the fans status through tachometric signal or differential pressostat (<i>alternative to 5b, 5c e 15</i>)		
<div style="display: flex; align-items: center;">  DOMOTIC (MODBUS ETHERNET TCP-IP) </div>		
12 Publishing of the state and alarm signals on the bus line		
13 Receiving of all managing instructions from the bus line		
<div style="display: flex; align-items: center;">  OTHER FUNCTIONS </div>		
14 Management of the motorized by-pass damper		
15 Switch ON/OFF of the unit from a remote contact (<i>alternative to 5b e 5c</i>)		
16 Weekly cronoprogramming		
17 Managing up to maximum 4 identical units through a single control panel (Master&Slave)		
18 Possibility to change the language of the remote control panel (English, Italian, French, German, Spanish, Dutch)	