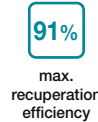


DUOVENT® COMPACT DV TOP



ErP conform

91%
max.
recuperation
efficiency

Digireg®

VAV-CAV-COP
control types

EC-motor



Bypass

Technical Parameters

■ Cabinet

Patented ISOSTREAM® modular system with wall panels of thickness 45 mm, which are made of galvanized steel sheet with external coating in shade RAL9002 (gray-white). The panels are filled with sound and heat insulation from non-flammable mineral wool. To facilitate service, the cabinet of the unit is equipped with an openable door with locks. The round sockets are equipped with a rubber seal, the square sockets are ready to fit a damping insert with a 20 mm frame. The frame of the unit is made of aluminum proils, the wall panels are screwed to the frame. The condensate outlets from the heat exchanger and cooler are always located in the bottom panel of the unit and are ready for connection of an anti-odor siphon. At the customer's request, the casing of the unit can be provided with atypical surface protection with higher corrosion resistance.

■ Fans

A fan with backward curved blades is mounted on the inlet and outlet side of the unit. The impeller is made of composite material and is statically and dynamically balanced.

■ Motors

EC motor is assembled directly on the fan impeller. The fan motor can be continuously controlled by an external signal 0–10 V. The motor is equipped with its own built-in thermal protection. Motor efficiency class IE4, electric motor protection IP54.

■ Exchangers

The unit is equipped with a water or electric air heater, depending on the version. For the needs of summer air cooling, a water cooler or a direct evaporator is installed. For the needs of bivalence heating, the evaporator can be manufactured in a reversible design. The evaporators are designed as standard for R410A and R32 refrigerant. Water heaters and coolers have copper pipes and aluminum fins in a galvanized steel frame as standard. For the needs of higher corrosion protection, it is possible to provide the exchangers with additional anti-corrosion protection. Electric heaters have smooth heating rods as standard and are equipped with an operating thermostat with start temperature 60°C and emergency thermostat with manual reset and start temperature 120°C.

■ Recuperator

The recuperation counter-flow exchanger with fully separated inlet and discharge air flows is made from aluminium. It includes a bypass with a damper that fully controls the air inlet to the exchanger or to the bypass. On request, the recuperator can be equipped with a circulation or mixing damper (marked C or MX in the unit code).

■ Filters

For sizes 500, 1000, 1500, 2200 and 3600, there are 96 mm thick F7 and M5 filter filters on the air supply and exhaust. For sizes 5100, 6000, 7800, it is possible to place 2 filter cassette cells of different classes of 48 mm thickness or 1 filter element of 96 mm thickness for fresh air intake and exhaust air intake. Filters are available in translation classes from G4 to F9. Access to the filters is via the inspection door on the operating side of the unit. The unit can be supplemented with MFL filter cartridges with MFR filter inserts in the case of multi-stage filtration.

■ Flaps

Aluminium control flaps ready for fitting with servo-drive are integrated on the suction of fresh air and at the discharge of exhaust air. The flaps meet tightness class 2 according to EN1751. On request, the unit can be retrofitted with dampers in tightness class 3.

■ Electrical connection

The supply voltage 1x 230V/50Hz or 3x 400V/50Hz depends on the equipment of the unit. Supply cables, cables to sensors and power cables to the fans are fed to the unit through plastic bushings in the unit wall. Rubber grommets are prepared inside the unit for cable routing with membrane.

■ Control

As standard, the unit is fitted with Digireg® digital control system acc. to the unit configuration. If the unit is equipped with the I&C system directly from the factory, electrical connection and testing is performed on all sensors and actuators. The control box is located on the wall of the unit (in case of atypical placement of the control box of the I&C system, it is necessary to consult this with the manufacturer and specify it in the order).

■ Assembly

In a vertical position with the necks at the top (or top and sides). There is a left and the right variant. In front of and next to the unit it is necessary to have a handling space for the needs of service interventions, replacement of filters, etc. There must be a space under the unit for the installation of a condensate drain. The specific arrangement of the sockets with respect to the operating side of the unit must be specified, see further. The unit must be mounted with a slope 5 % towards the condensate drain. HVAC piping is connected to prepared round (DUOVENT® DV TOP 500, 1000, 1500, 2200, 3600) or rectangular necks (DUOVENT® DV TOP 5100, 6000, 7800) – we recommend to mount flexible sleeves for the pipes between the pipe necks and the unit to eliminate the vibration transmission from the unit to the pipeline. Rectangular sockets are integrated in the wall sandwich panel of the unit and the spacing of the corner connection holes is optimized for P20 connection flanges.

■ Noise

The tables in the tables represent the sound power levels at the individual ports of the unit with weight filter correction A and the sound pressure level at a distance of 1 m from the operating side of the unit (in the free field Q = 2). Acoustic parameters are within ±3dB.

■ Variants

The individual unit variants are identified by the code acc. to their accessory. Atypical variants must be consulted.

■ Warranty terms

DUOVENT® COMPACT DV TOP including DVAV control system, DCAV and DCOP must be put into operation exclusively by the Seller or a person designated for that purpose by the Seller. Failure to comply with this condition will result in the termination of the Buyer's rights from defective performance and from the Quality Guarantee. Detailed terms are specified in the Seller's Complaint Procedure.

Information

The unit is designed for ventilation of commercial areas. Mounting variants allow adaptation to the requirements of the building. The unit is intended to permanent operation. Consult our technical department for the design of the pool hall ventilation unit (SP code version).

HVAC accessories

- **Sonoflex®**, **Termoflex®** flexible hoses and fittings (K7.3)
- **SPIRO** round spiro pipes and fittings (K7.3)
- **KAA**, **IAE** flexible couplings (K7.1)
- **MAA**, **IAA** silencers (K7.1)

- **RSK**, **TSK** check valves (K7.1)
- **MSK**, **IJK** throttles and mixing flaps (K7.1)
- Disc valves, diffusers, nozzles, grilles (K7.2)
- **Rain blinds** (K7.1)
- **MBE**, **IBE**, **IBW**, **IKW** electric and water heaters for round and square pipes (K7.1)
- **MKW**, **IKW**, **IKF**, **MKF** water coolers and direct evaporators for round and square pipes (K7.1)
- **MFL**, **IFL**, **MFLT** filter cassettes for round and square pipes (K7.1)
- **ESU** mixing nodes (K7.1)
- **SF-P** vacuum siphon (K7.1)

EL accessories

- **Digireg®** digital control system for units with heating and cooling, controller with touch-screen display (K9)
- **JTR** triac switch for electric heater power control (K9)
- **HIG**, **HYG** humidistats (K8.2)
- **EDF-CO2**, **SQA CO2** sensors (K8.2)
- **RTR** thermostats (K8.2)
- **DTS PSA** pressure sensors (K8.2)
- **Actuators** (K8.2)
- **AIRSENS** air quality sensors (K 8.2)

Type key for ordering

DUOVENT COMPACT DV 3600 DI DX MX KL F7/M5 DVAV P TOP SP
 1 2 3 4 5 6 7 8 9 10

1 – unit size – 500, 1000, 1500, 2200, 3600, 5100, 6000, 7800

2 – heater type:

DI – electric

DCA – water for gradient on water 80°C/602°C

DCB – water for water drop 45°C/35°C

3 – water cooler type:

DCC – water for gradient on water 6/12°C

DX – direct evaporator for refrigerant R410A or R32, evaporating temperature 6°C (for a direct evaporator, it is always necessary to specify the type of refrigerant, the required capacity and the division of the refrigeration capacity into sections according to the type of condensing unit used).

For evaporation units used for reverse operation with the thermal pump this fact must be specified in the order.

DXr – evaporator in connection for reversible operation (cooling/heating), refrigerant R410A.

If it is a unit with DXr and bivalent reheating, positions „2“ and „3“ must be turned.

4 – **MX** – mixing damper with preparation for mounting the actuator

C – mixing flap enabling 100% air circulation with preparation for mounting the actuator

5 – **KL** – inlet and outlet damper with preparation for mounting the actuator (if the unit is equipped with the I&C system, the actuator is included)

6 – Filtering class of fresh air / exhaust air filter (G4-F9)

7 – control system type

D – Digireg®

8 – air flow control type

VAV – variable air flow

CAV – constant air flow

COP – constant static pressure supplied to the HVAC piping network

9 – position of the necks with respect to the operating side – according to the table of socket variants (**P**, **PB**, **PBP**, **PBO**, **L**, **LB**, **LBP**, **LBO**).

For sizes 500 and 1000, only the position of the **L** or **P** sockets is possible.

10 – **SP** – design of the unit for ventilation of pool halls

Order examples

DUOVENT COMPACT DV 3600 DI DX MX KL F7/M5 DVAV P TOP

Unit size 3600 with electric heater, direct evaporator, bypass and mixing damper, integrated dampers for suction and exhaust, filtration on inlet F7, single-stage filtration on outlet M5, MaR system Digireg with VAV, position P.

Class acc. to EN779	Class acc. to EN ISO 16890
G4	ISO Coarse 60%
M5	ISO ePM10 50%
F7	ISO ePM2,5 70%
F9	ISO ePM1 80%

DUOVENT® COMPACT DV TOP

Recuperation

Type	Nominal flow [m³/h]	voltage [V/Hz]	Inlet/exhaust fan		heater		cooler power* [kW]	efficiency* [%]	unit max. air flow [m³/h]	control system	weight** [kg]
			max. input power [W]	current [A]	power* [kW]	current [A]					
500 D	500	230V 50Hz	145/120	0.6/0.5	-	-	-	88	550	M1-Vx	110-122
500 DCA					3.6	-	-				
500 DCB					2.4	-	-				
500 DCC					-	-	3.6				
500 DX					-	-	3.5				
500 DI					2	8.7	-				
1000 D	1000	230V 50Hz	312/260	1.4/1.1	-	-	-	86.8	1200	M1-Vx	148-165
1000 DCA					6.4	-	-				
1000 DCB					4.3	-	-				
1000 DCC					-	-	7.1				
1000 DX					-	-	4.5				
1000 DI					4	17.4	-				
1500 D	1500	400V 50Hz (1x 230V 50Hz)	560/480	2.4/2.1	-	-	-	87.7	1800	M1-Vx (M3-Vx)	168-190
1500 DCA					10	-	-				
1500 DCB					7.8	-	-				
1500 DCC					-	-	11.1				
1500 DX					-	-	10.5				
1500 DI					4.5	6.5	-				
2200 D	2200	400V 50Hz	715/575	1/0.8	-	-	-	89	2600	M3-Vx	328-355
2200 DCA					16	-	-				
2200 DCB					11.4	-	-				
2200 DCC					-	-	16.9				
2200 DX					-	-	15.6				
2200 DI					9	13	-				
3600 D	3600	400V 50Hz	1253/1098	1.8/1.6	-	-	-	88.5	4200	M3-Vx	365-399
3600 DCA					23.7	-	-				
3600 DCB					17.5	-	-				
3600 DCC					-	-	27.1				
3600 DX					-	-	25.4				
3600 DI					13.5	19.5	-				
5100 D	5100	400V 50Hz	1886/1570	2.7/2.3	-	-	-	90.5	5500	M3-Vx	528-581
5100 DCA					34.3	-	-				
5100 DCB					25.1	-	-				
5100 DCC					-	-	37.3				
5100 DX					-	-	34.8				
5100 DI					22.5	33	-				
6000 D	5900	400V 50Hz	2194/1880	3.2/2.7	-	-	-	90.5	6300	M3-Vx	603-661
6000 DCA					42	-	-				
6000 DCB					29.2	-	-				
6000 DCC					-	-	44.9				
6000 DX					-	-	40.7				
6000 DI					22.5	33	-				
7800 D	7400	400V 50Hz	2692/2335	3.9/3.4	-	-	-	90.8	8000	M3-Vx	698-774
7800 DCA					49.4	-	-				
7800 DCB					38.4	-	-				
7800 DCC					-	-	57				
7800 DX					-	-	53.7				
7800 DI					30	43.5	-				

* at nominal air flow, t_e = 12 °C/90 % r.h., t_i = 22 °C/50 % r.h., t_e = 35 °C/35 % r.h. (SUMMER)

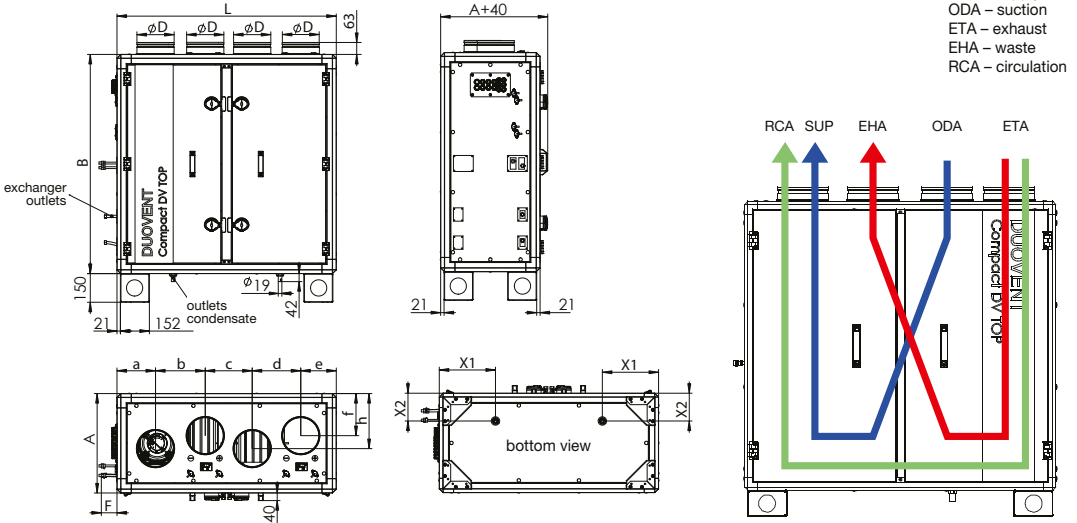
** depending on particular variant

Water cooler power DCC for t_e = 35 °C/35 % r.h., t_e = 6/12 °C. Water heater power DCA for t_e = 10 °C, t_e = 80/60 °C.

Water heater power DCB for t_e = 10 °C, t_e = 45/35 °C. Direct evaporating unit power DX for R410A coolant, t_e = 35 °C/35 % r.h., t_{sp} = 6 °C.

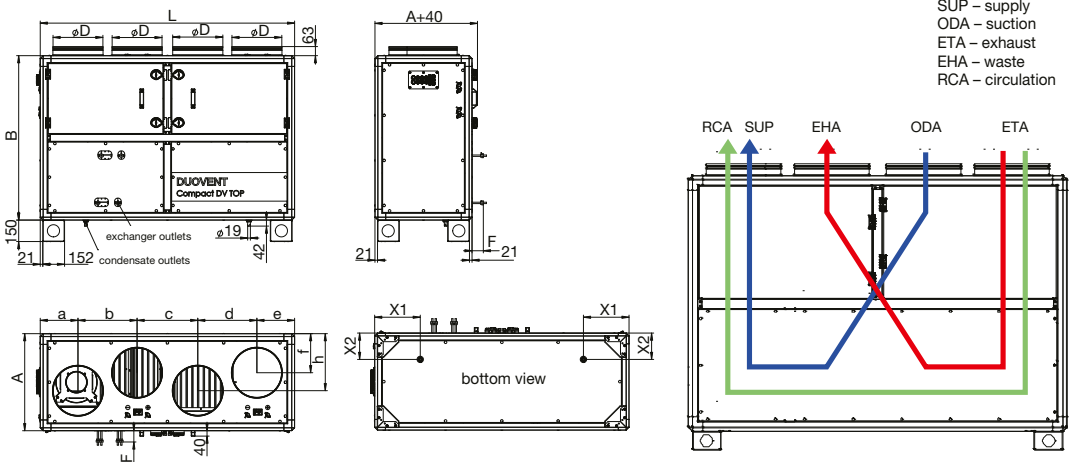
Dimensions

DUOVENT® COMPACT DV 500, 1000 TOP



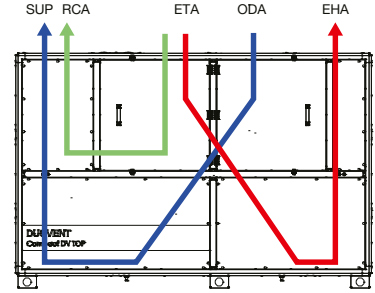
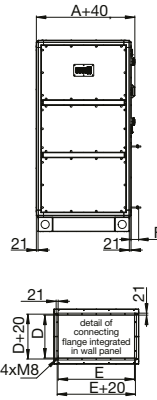
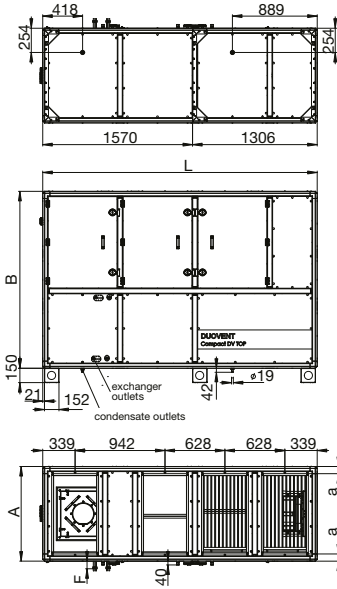
Type	A [mm]	B [mm]	L [mm]	Ø D [mm]	F [mm]	a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	f [mm]	h [mm]	X1 [mm]	X2 [mm]
DV 500 TOP	521	1149	1149	200	51	202	260,5	246	240,5	254,5	220,5	288,5	320	150
DV 1000 TOP	678	1149	1306	250	51	207	303	297	292	207	246	404	255	180

DUOVENT® COMPACT DV 1500 to 3600 TOP



Type	A [mm]	B [mm]	L [mm]	Ø D [mm]	F [mm]	a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	f [mm]	h [mm]	X1 [mm]	X2 [mm]
DV 1500 TOP	678	1149	1777	355	51	263,5	413	424	413	263,5	273	398,5	315	180
DV 2200 TOP	835	1463	1934	400	51	292	447	498	452	287	321,5	521,5	290	180
DV 3600 TOP	992	1620	2091	450	51	307,5	480,5	515	480,5	307,5	351	641	290	180

DUOVENT® COMPACT DV 5100 to 7800 TOP



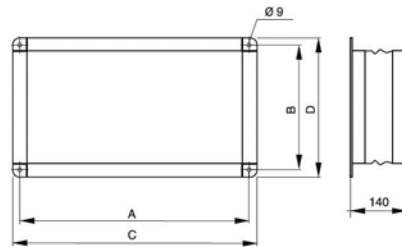
SUP – supply
 ODA – suction
 ETA – exhaust
 EHA – waste
 RCA – circulation

Type	A [mm]	B [mm]	L [mm]	D [mm]	E [mm]	F [mm]	a [mm]
DV 5100 TOP	992	1777	2876	450	800	51	96
DV 6000 TOP	1149	1777	2876	450	950	51	99.5
DV 7800 TOP	1463	1777	2876	450	1250	51	106.5

Accessories

DUO-DV TOP-IAE

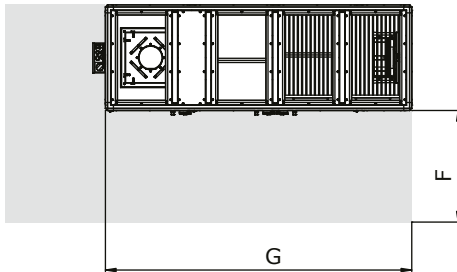
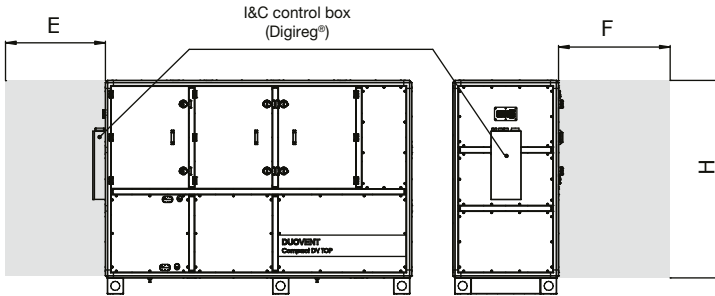
- Flexible coupling to connect inlet and outlet necks of HVAC unit with pipe lines
- Prevents transfer of vibration to air-ducts
- Supplied for unit sizes DV TOP 5100–7800
- Flange width 20 mm



Type	A [mm]	B [mm]	C [mm]	D [mm]
DUO-DV TOP-IAE-5100	820	470	840	490
DUO-DV TOP-IAE-6000	970	470	990	490
DUO-DV TOP-IAE-7800	1270	470	1290	490

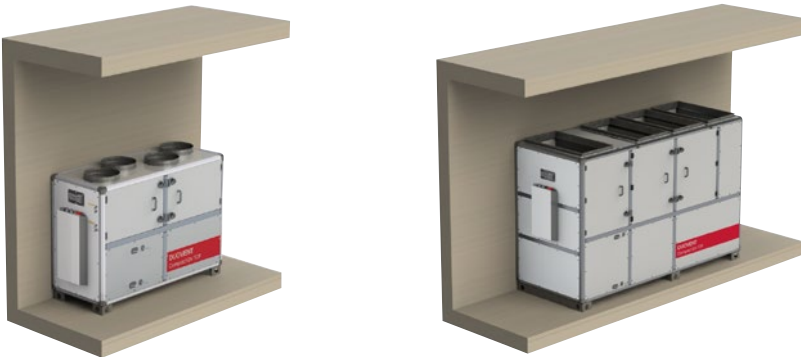
Supplementing figures

Minimum service space (drawn position P):



Size	E [mm]	F [mm]	G [mm]	H [mm]
500	940	570	1250	1150
1000	940	700	1350	1150
1500	940	900	1800	1150
2200	940	1000	1950	1470
3600	940	1050	2100	1620
5100	940	1050	2880	1860
6000	940	1200	2880	1860
7800	940	1600	2880	1860

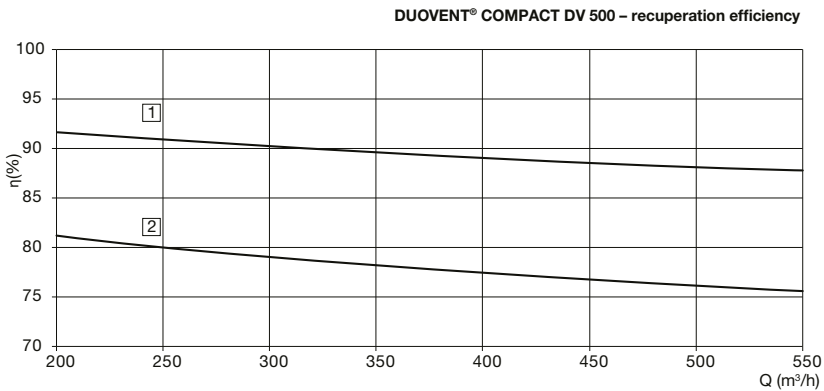
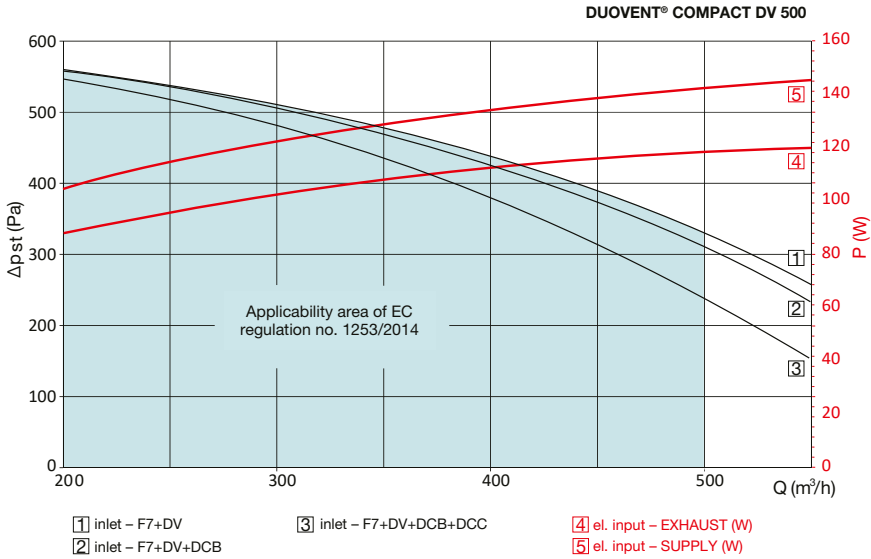
Installation examples of DUOVENT® COMPACT DV TOP units:



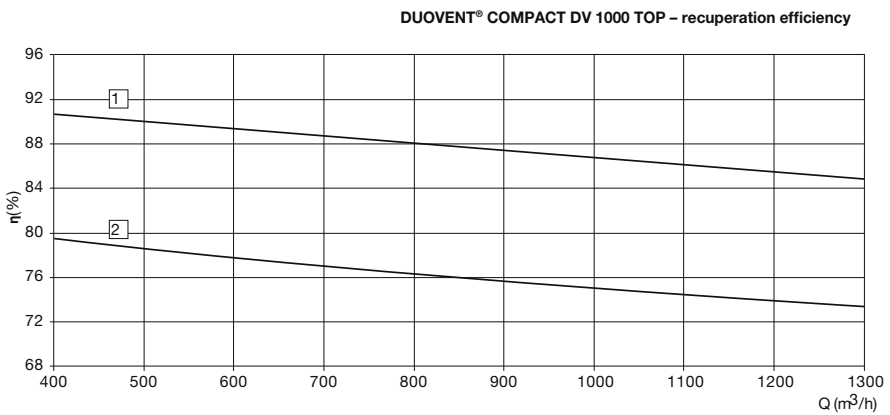
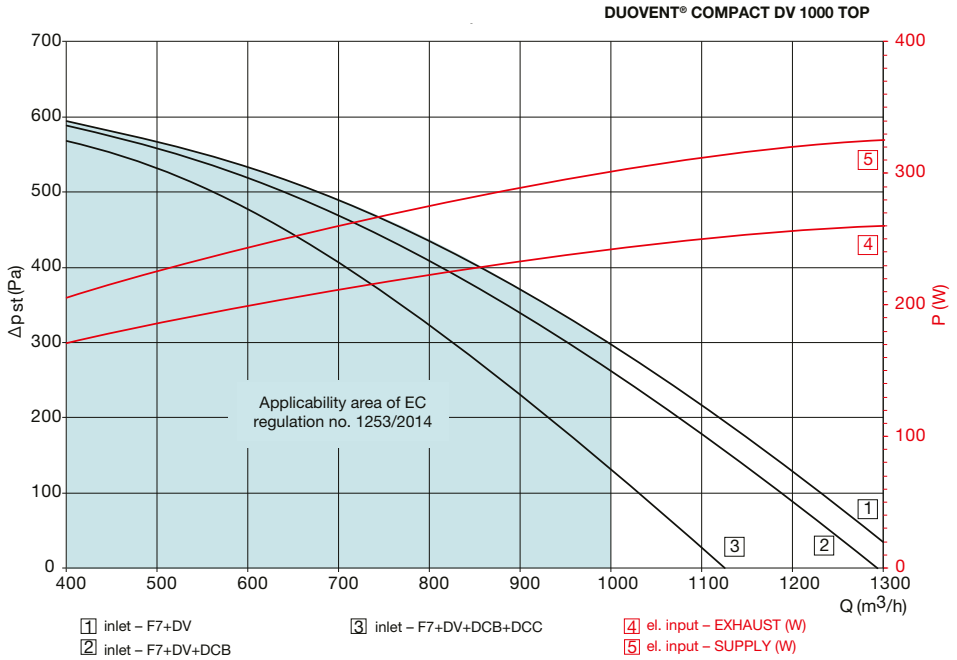
DUOVENT® COMPACT DV TOP

Characteristics

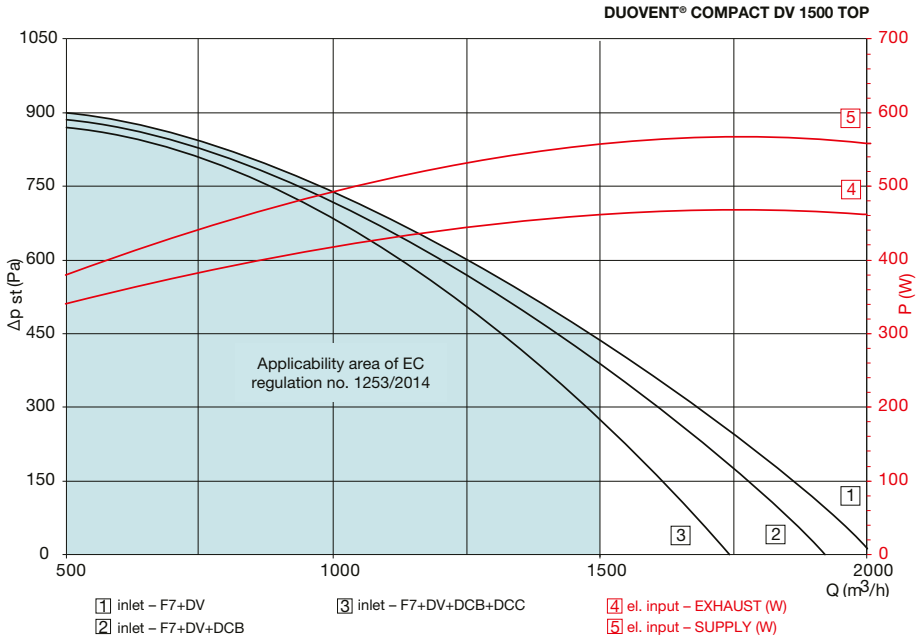
- Q air flow (m³/h)
- Δp_{st} unit external static pressure (Pa)
- P electric input (W)
- η heat recuperation efficiency (%)



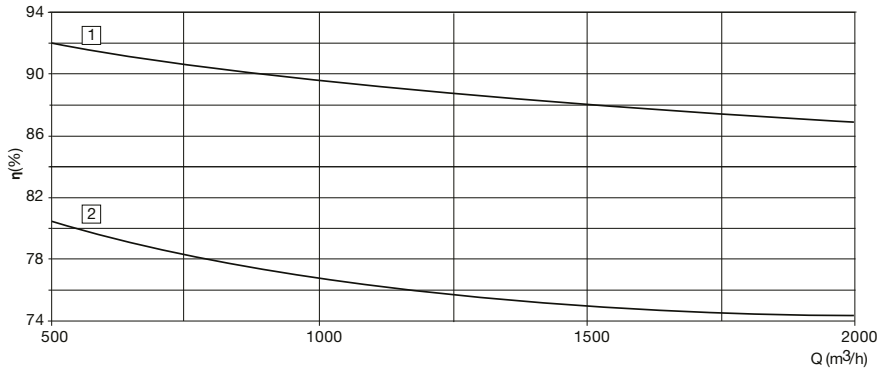
- 1 Efficiency for parameters:
EXHAUST: 22°C/50% r.h.
SUPPLY: -12°C/90% r.h.
- 2 Efficiency acc. to EC/1253/2014

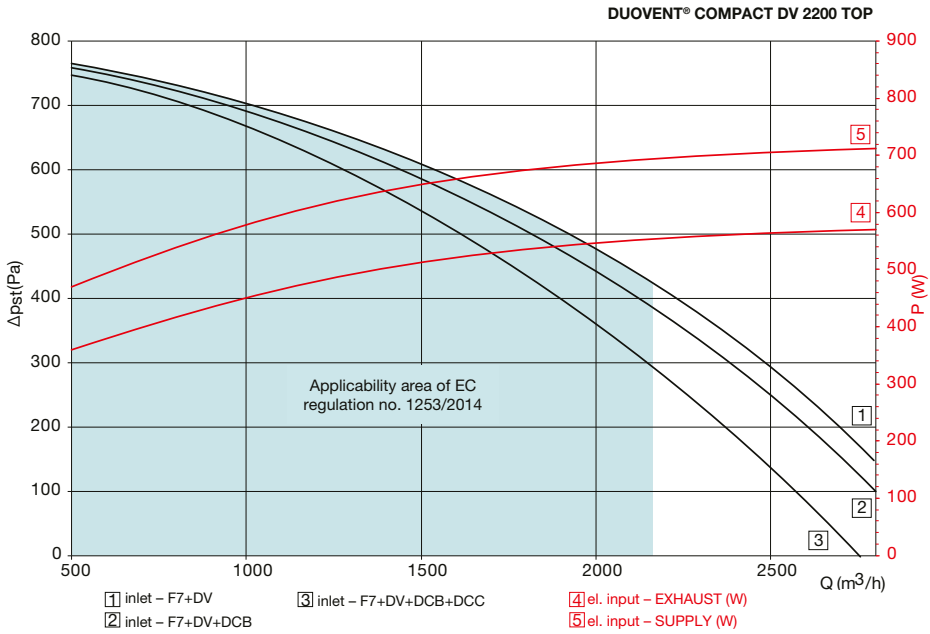


DUOVENT® COMPACT DV TOP

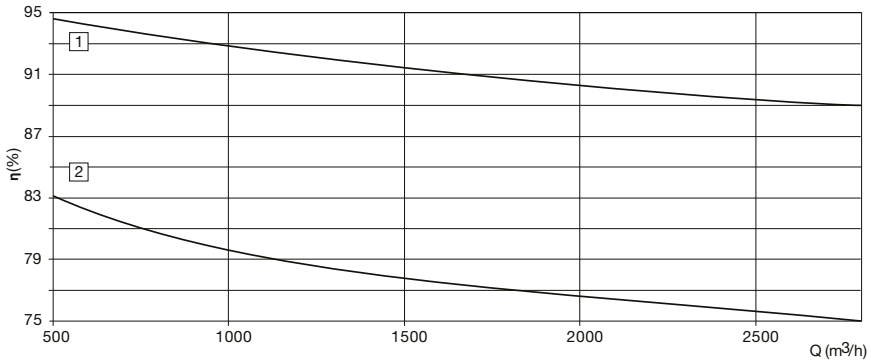


DUOVENT® COMPACT DV 1500 TOP - recuperation efficiency



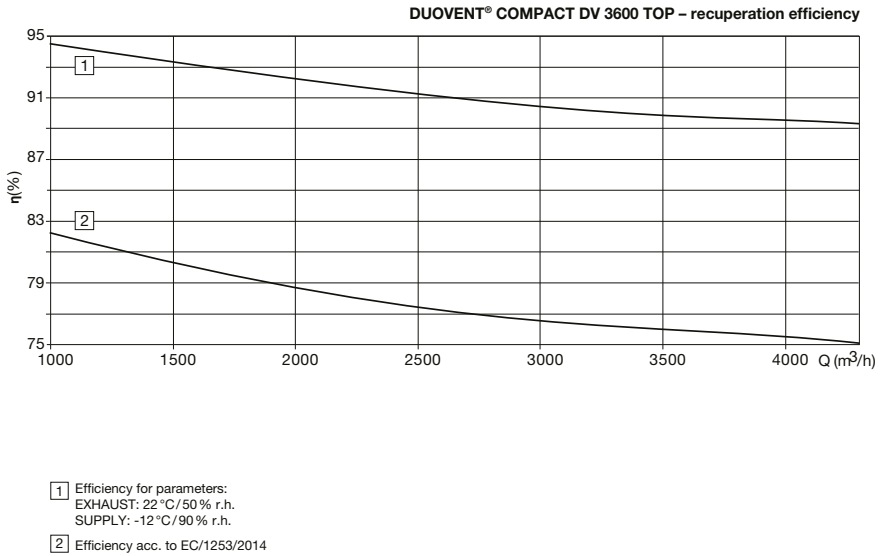
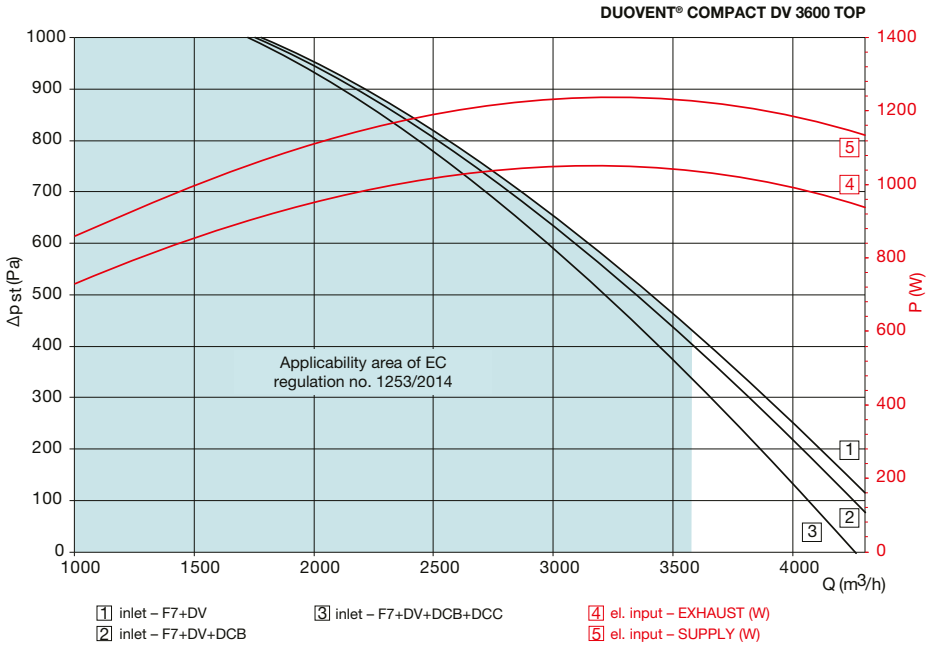


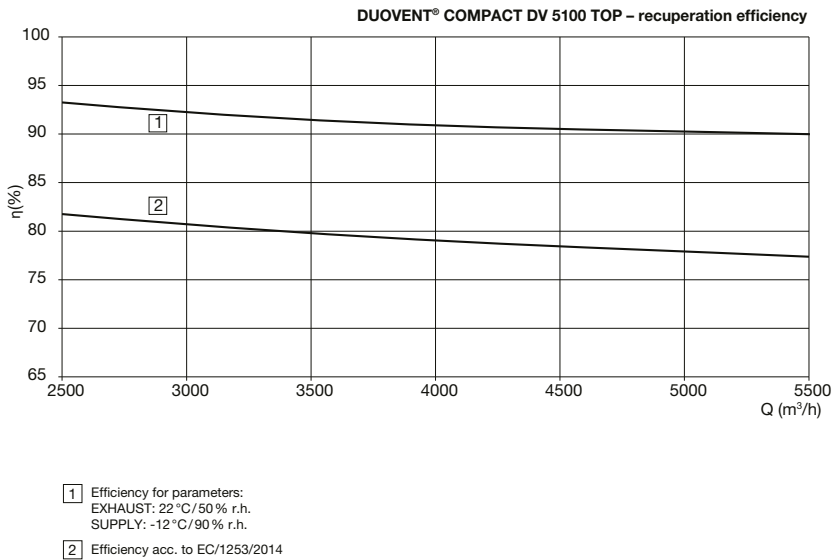
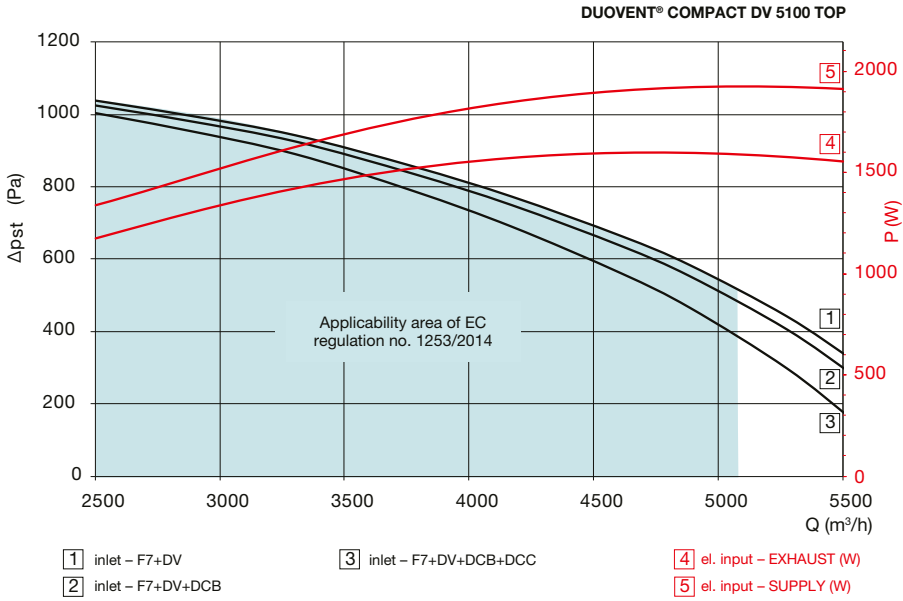
DUOVENT® COMPACT DV 2200 TOP - recuperation efficiency



- 1 Efficiency for parameters:
EXHAUST: 22°C/50% r.h.
SUPPLY: -12°C/90% r.h.
- 2 Efficiency acc. to EC/1253/2014

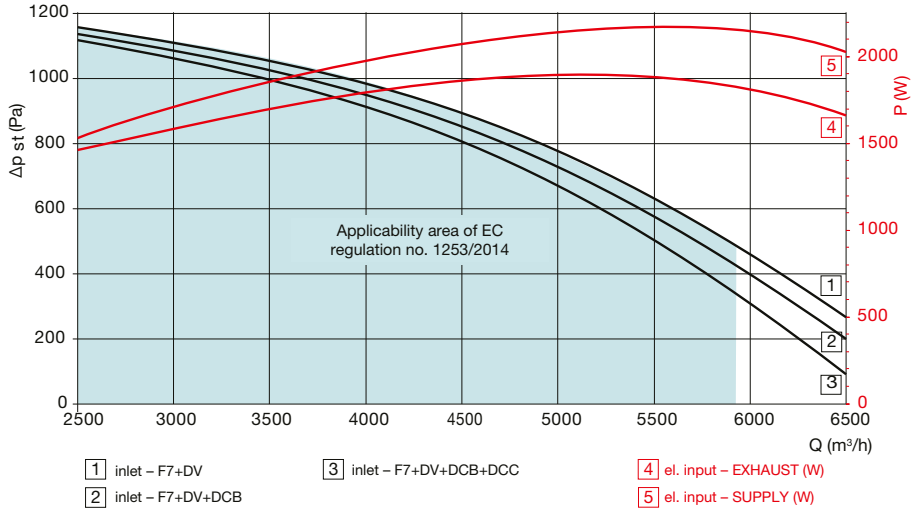
DUOVENT® COMPACT DV TOP





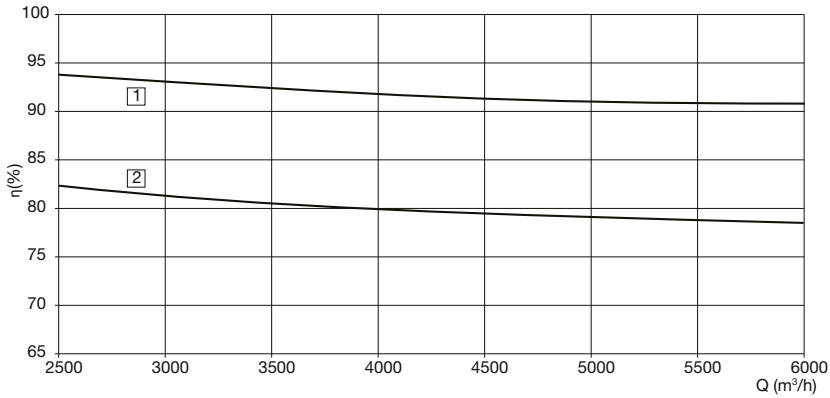
DUOVENT® COMPACT DV TOP

DUOVENT® COMPACT DV 6000 TOP



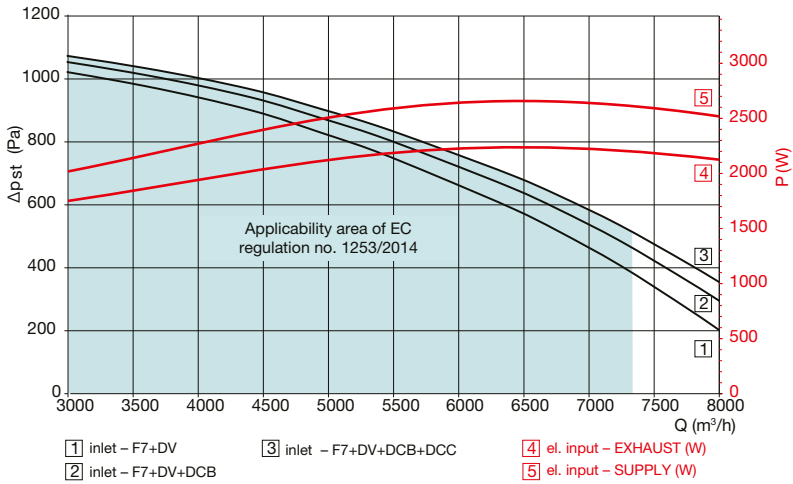
Recuperation

DUOVENT® COMPACT DV 6000 TOP – recuperation efficiency

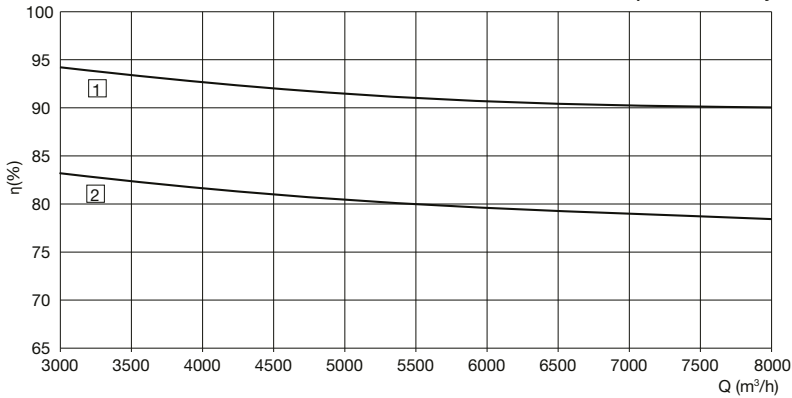


- 1 Efficiency for parameters:
EXHAUST: 22 °C/50 % r.h.
SUPPLY: -12 °C/90 % r.h.
- 2 Efficiency acc. to EC/1253/2014

DUOVENT® COMPACT DV 7800 TOP



DUOVENT® COMPACT DV 7800 TOP – recuperation efficiency



- 1 Efficiency for parameters:
EXHAUST: 22°C/50% r.h.
SUPPLY: -12°C/90% r.h.
- 2 Efficiency acc. to EC/1253/2014

DUOVENT® COMPACT DV TOP

Acoustic power (pressure) level in octave ranges [dB(A)]*

DUOVENT® COMPACT DV 500 TOP (for Q = 500 m³/h)

Hz	63	125	250	500	1000	2000	4000	8000	L _{WA}
fresh	32	40	48	52	53	54	47	44	59
intel	37	47	56	64	69	71	65	61	75
L _{WA} exhaust	34	43	51	57	60	60	54	53	65
waste	33	41	51	59	61	64	57	54	67
L _{PA} environment (1 m)**	30	43	50	48	44	41	28	20	53

DUOVENT® COMPACT DV 1000 TOP (for Q = 1000 m³/h)

Hz	63	125	250	500	1000	2000	4000	8000	L _{WA}
fresh	43	49	58	58	58	53	47	43	63
intel	48	57	70	71	75	73	66	62	79
L _{WA} exhaust	42	52	59	62	63	59	53	50	68
waste	41	50	63	64	66	64	57	53	71
L _{PA} environment (1 m)**	40	52	63	55	50	42	29	21	64

DUOVENT® COMPACT DV 1500 TOP (for Q = 1500 m³/h)

Hz	63	125	250	500	1000	2000	4000	8000	L _{WA}
fresh	40	48	57	62	62	58	50	48	66
intel	49	57	68	75	81	78	71	67	84
L _{WA} exhaust	48	54	61	68	69	65	59	58	73
waste	45	54	64	70	74	71	64	61	77
L _{PA} environment (1 m)**	42	54	62	59	57	48	35	27	65

DUOVENT® COMPACT DV 2200 TOP (for Q = 2200 m³/h)

Hz	63	125	250	500	1000	2000	4000	8000	L _{WA}
fresh	35	42	55	56	53	55	47	41	61
intel	42	52	67	70	76	76	69	65	80
L _{WA} exhaust	36	45	57	61	60	60	53	49	66
waste	36	46	61	65	69	68	61	56	73
L _{PA} environment (1 m)**	34	48	60	54	52	45	32	24	62

* data for specific configuration: Inlet-M7+DV+DCC+DCA / Outlet-M5+DV

** casing damping of R_w value
DUOVENT® COMPACT DV 3600 TOP (for Q = 3600 m³/h)

Hz	63	125	250	500	1000	2000	4000	8000	L _{WA}
fresh	37	44	59	62	58	59	52	47	66
intel	44	54	71	75	82	81	74	71	86
L _{WA} exhaust	41	48	62	68	66	66	60	57	72
waste	41	50	66	71	75	74	67	64	79
L _{PA} environment (1 m)**	37	51	65	60	58	51	38	30	67

DUOVENT® COMPACT DV 5100 TOP (for Q = 5100 m³/h)

Hz	63	125	250	500	1000	2000	4000	8000	L _{WA}
fresh	38	44	63	61	58	59	52	47	67
intel	49	57	74	77	81	79	73	68	85
L _{WA} exhaust	40	50	67	67	64	65	59	56	72
waste	45	53	70	72	74	71	65	61	78
L _{PA} environment (1 m)**	42	54	68	61	57	48	36	27	69

DUOVENT® COMPACT DV 6000 TOP (for Q = 5900 m³/h)

Hz	63	125	250	500	1000	2000	4000	8000	L _{WA}
fresh	38	44	65	62	60	60	53	50	68
intel	49	57	75	78	82	80	74	71	86
L _{WA} exhaust	42	48	70	68	66	66	60	61	74
waste	45	53	71	73	76	72	66	65	80
L _{PA} environment (1 m)**	42	54	69	62	58	49	37	31	70

DUOVENT® COMPACT DV 7800 TOP (for Q = 7400 m³/h)

Hz	63	125	250	500	1000	2000	4000	8000	L _{WA}
fresh	50	54	67	65	60	59	51	53	70
intel	56	64	77	80	84	80	72	73	87
L _{WA} exhaust	55	59	71	72	67	66	59	64	76
waste	53	61	74	76	77	72	65	67	82
L _{PA} environment (1 m)**	49	61	71	65	60	49	36	33	73

Characteristics of recuperation units acc. 2009/125/EC, EC regulation no. 1253/2014.

Size unit	Nominal air flow	SFP _{int}	recuperation efficiency	SFP _{int,LIMIT 2016}	external pressure
	[m³/h]	[W/(m³/s)]	[%]	[W/(m³/s)]	[Pa]
500	500	657	76.4	1181	250
1000	1000	866	75	1118	250
1500	1500	1059	74.9	1095	300
2200	2200	860	75.8	1092	300
3600	3600	992	76	1040	300
5100	5100	1030	77.9	1035	350
6000	5900	1001	78	1004	350
7800	7400	951	78.1	953	350

Technical data of water heaters DCA ($t_w = 80/60\text{ }^\circ\text{C}$) and DCB ($t_w = 45/35\text{ }^\circ\text{C}$)

Size unit	temp. gradient $^\circ\text{C}$	power [kW]	air flow $[\text{m}^3/\text{h}]$	air inlet temperature $^\circ\text{C}$	air outlet temperature $^\circ\text{C}$	pressure loss at water side [kPa]	water flow $[\text{m}^3/\text{h}]$
500	80/60	3.6	500	10	31.4	10	0.16
	45/35	2.4	500		24.2	9	0.21
1000	80/60	6.8	1000	10	30.4	7	0.56
	45/35	5.2	1000		25.5	13	0.68
1500	80/60	10.0	1500	10	30.0	16	0.44
	45/35	7.8	1500		25.5	18	0.68
2200	80/60	16.0	2200	10	31.7	16	0.70
	45/35	11.4	2200		25.5	20	0.99
3600	80/60	23.7	3600	10	29.6	20	1.04
	45/35	17.5	3600		24.5	21	1.52
5100	80/60	34.3	5100	10	30.1	16	1.50
	45/35	25.1	5100		24.7	17	2.18
6000	80/60	42.0	5900	10	31.3	25	1.85
	45/35	29.2	5900		24.8	11	2.54
7800	80/60	49.4	7400	10	30.0	20	2.17
	45/35	38.4	7400		25.5	18	3.34

Technical data of water coolers DCC ($t_w = 6/12\text{ }^\circ\text{C}$) and evaporation units DX ($t_{\text{vap}} = 6\text{ }^\circ\text{C}$, R410A coolant)

Size unit	temp. gradient / evaporation temp. $^\circ\text{C}$	power [kW]	air flow $[\text{m}^3/\text{h}]$	inlet temperature rel. humidity $^\circ\text{C}/\%$	outlet temp. $^\circ\text{C}$	pressure loss at water/coolant side [kPa]	water flow $[\text{m}^3/\text{h}]$
500	6/12	3.6	500	35 $^\circ\text{C}/35\%$	19.1	16	0.51
	6	3.5	500		18.9	44	-
1000	6/12	7.1	1000	35 $^\circ\text{C}/35\%$	19.3	36	1.02
	6	4.5	1000		20.8	87	-
1500	6/12	11.1	1500	35 $^\circ\text{C}/35\%$	18.6	12	1.58
	6	10.5	1500		19.4	75	-
2200	6/12	16.9	2200	35 $^\circ\text{C}/35\%$	18.3	23	2.41
	6	15.6	2200		19.3	65	-
3600	6/12	27.1	3600	35 $^\circ\text{C}/35\%$	18.5	21	3.88
	6	25.4	3600		19.4	55	-
5100	6/12	37.3	5100	35 $^\circ\text{C}/35\%$	18.9	23	5.32
	6	34.8	5100		19.8	61	-
6000	6/12	44.9	5900	35 $^\circ\text{C}/35\%$	18.5	29	6.41
	6	40.7	5900		19.8	92	-
7800	6/12	57	7400	35 $^\circ\text{C}/35\%$	18.3	21	8.14
	6	53.7	7400		20	98	-

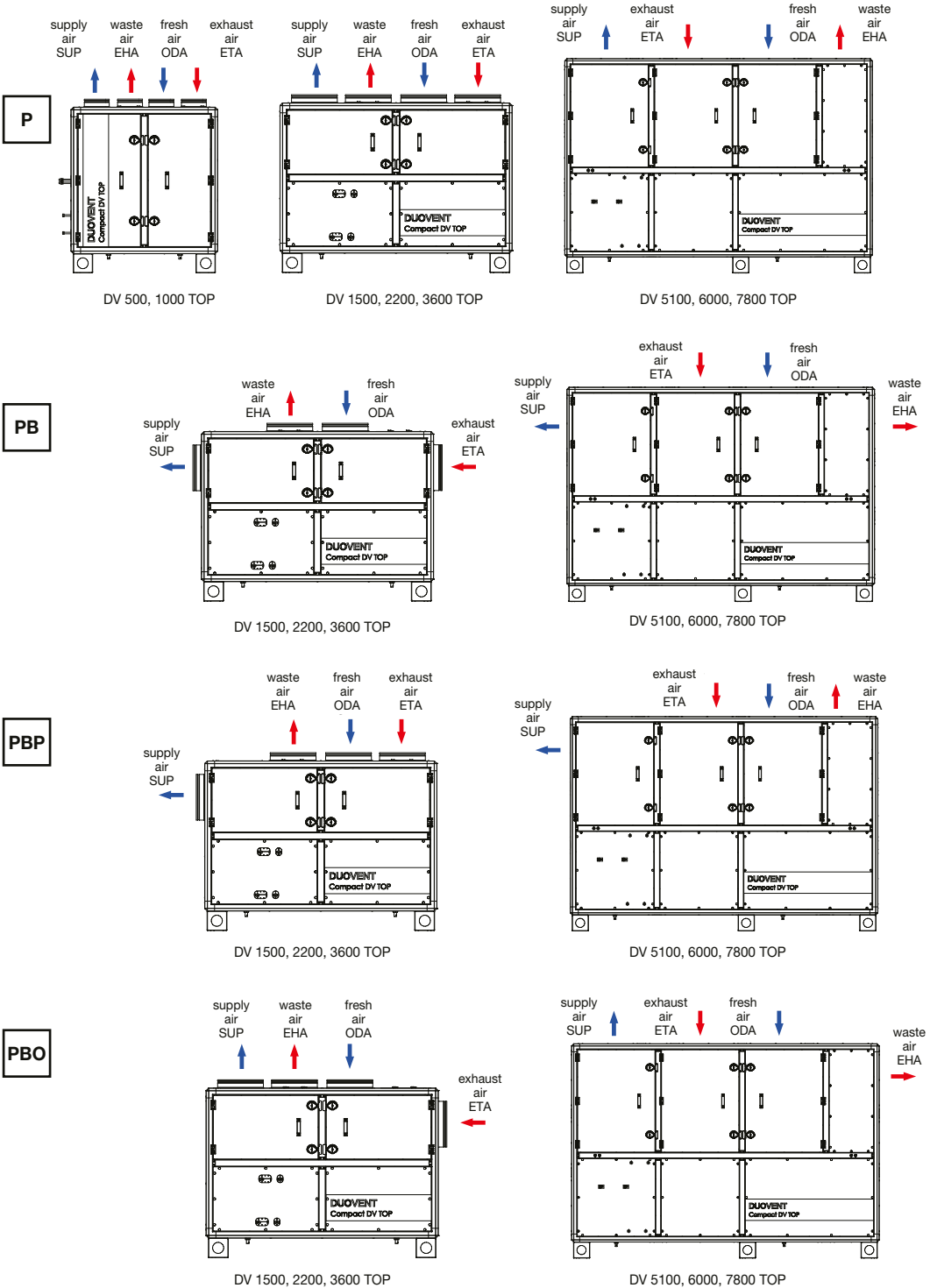
Technical data of electric heaters (supply power 3x 400V/50Hz, 1x 230V/50Hz), assignment of control kits

Size unit	type DI	power [kW]	no. of sections	Digireg®
500	IBE-500 DV TOP-2/1	2	1	M1-E2
1000	IBE-1000 DV TOP-4/2	4	2	M1-E8-2
1500	IBE-1500 DV TOP -4,5/1	4.5	1	M1-E8-2
2200	IBE-2200 DV TOP-9/2	9	2	M3-E15
3600	IBE-3600 DV TOP-13,5/2	13.5	2	M3-E15
5100	IBE-5100 DV TOP-22,5/1	22.5	1	M3-E24
6000	IBE-6000 DV TOP-22,5/1	22.5	1	M3-E24
7800	IBE-7800 DV TOP-30/1	30	1	M3-E36

Optionally, the unit can be ordered with atypical powers of electric heaters For this variant contact our technical dept.

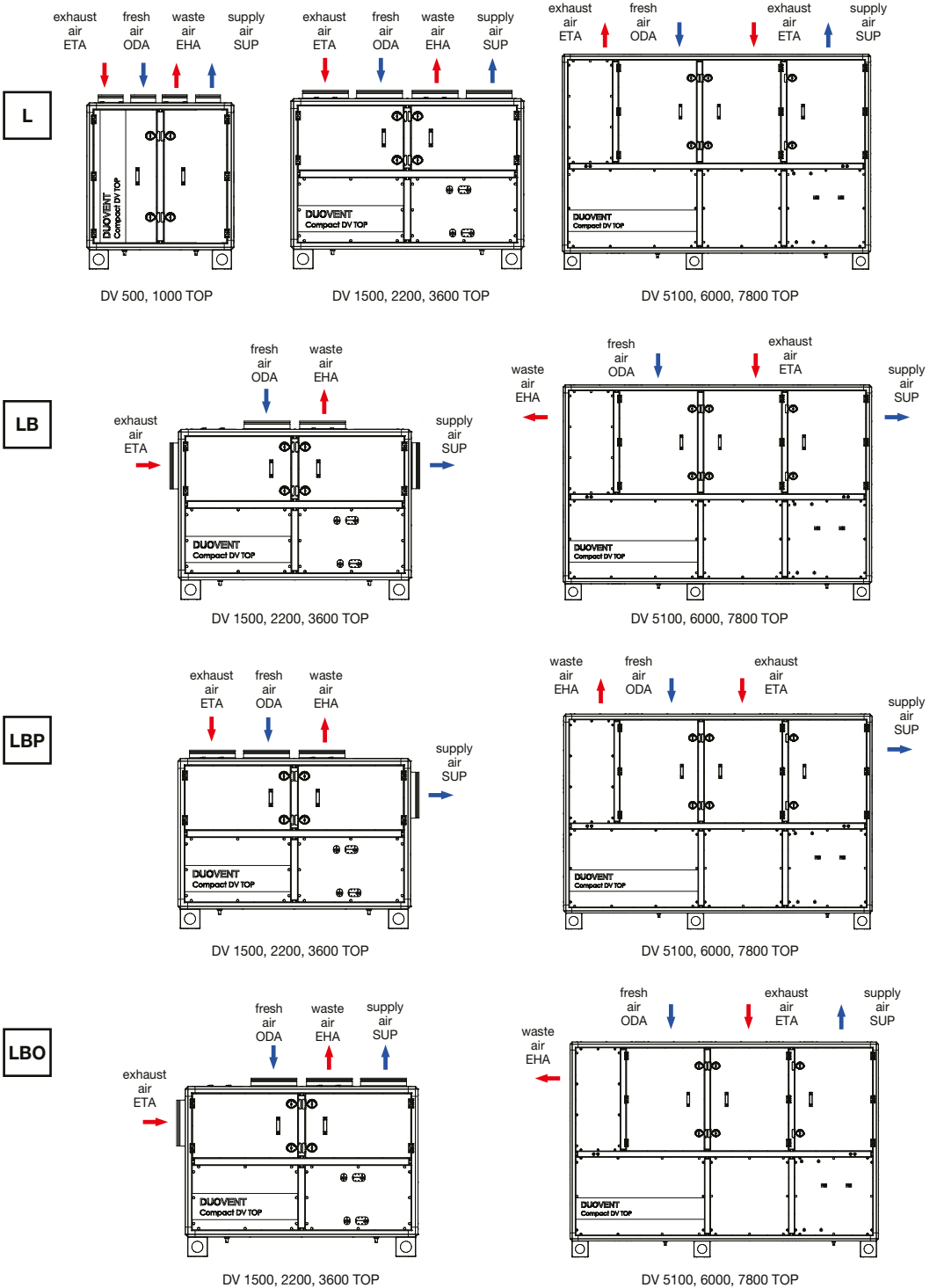
DUOVENT® COMPACT DV TOP

Neck variants



Recuperation

Neck variants



Recuperation