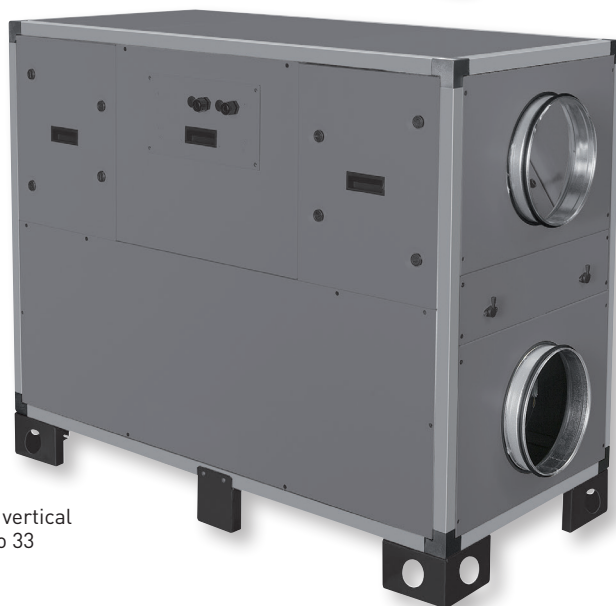




CADB/T-HE false ceiling models 04 to 33



CADB/T-HE vertical models 04 to 33



Models for external assembly CADT-HE 45 to 100. Model 100 available in vertical only.



Heat recovery



EXTRACTION FILTER

Versions



HORIZONTAL INSTALLATION



VERTICAL INSTALLATION



WITH NO ADDITIONAL HEAT INPUT

Heat recovery units with high-efficiency counterflow plate heat exchanger (up to 93%), certified by Eurovent, mounted in a double wall galvanized steel enclosure with interior thermo-acoustic insulation (A1/M0) 25 mm thick mineral wool in models 04 to 33 and 47 mm with Magnelis ZM310 enclosure in models 04-33 verticals and 45 to 100.

Adjustable input and output ports, versions for horizontal and vertical installation. Minimum outside air temperature -10°C. For lower temperatures it is necessary to use preheating coils located in the external air inlet.

Applications

Commercial premises, offices, hospitality venues, public buildings, schools. The CADB/T-HE-D BASIC range is not available with additional post-heating coils. The BASIC control does not support the control of external heating or cooling coils. Without additional heating input.

Motors

Models 04 to 33: Single-phase EC motors with integrated electronic protection. IP44, Type B.

Modelos 33HP and 45 to 100: EC motors with three-phase supply, with integrated electronic protection, IP54, Class B.

Fans

Plug fans with reverse impeller blades.

Filters

- F7: Low-loss F7 filters (ePM1 70%) for air supply.
- M5: M5 filters (ePM10 50%) for air extraction.
- It is possible to install a second filter inside the system (supplied as an accessory).

Control

It includes an integral operation control, located inside the unit and wired to all the components (fans, bypass, filter clogging detectors, temperature probes, etc.).

It allows manual or automatic fan control. It allows two possible automatic fan control modes:

VAV- Variable Air Volume

Fan speed can be adjusted using a 0 - 10V analogue signal from the remote touchscreen panel (included) or an external CO2 sensor (accessories).

COP - Constant Pressure (only available via Modbus)

The fan speed is regulated to maintain a constant pressure in the duct network. A TDP-D pressure sensor is necessary (accessory). This function cannot be activated with the remote control supplied with the unit.

Other data

Single-phase (CADB-HE BASIC) and three-phase (CADT-HE BASIC) models. Nominal flow rates from 450 to 10,000 m³/h. All models and versions include internal bypass.

Interchangeable side panels allowing multiple orientations of air inlets and outlets.

Remote control

included with the product.

- Characteristics:
- Stand-by mode.
 - Manual/automatic speed control.
 - Manual and automatic bypass control.
 - Alarm control.
 - Includes a 10 m cable for communication. Extensible to 30 m.

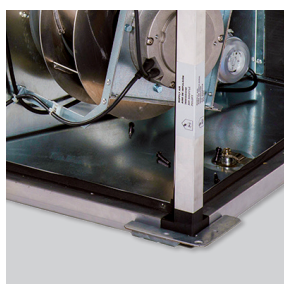


Safety Switch

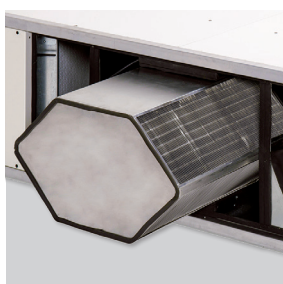
All versions include an emergency stop switch.



CADB-HE BASIC HORIZONTAL MODELS 04 TO 33



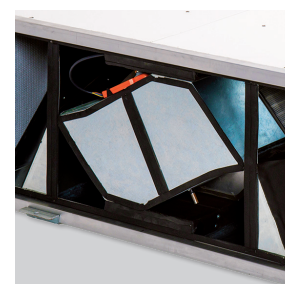
- 1 Low noise level and robust construction**
Box with A1/M0 fireproof thermo-acoustic insulation, 25mm thick, with high quality finishes, and plastic corners.



- 2 Highly efficient heat exchanger**
(up to 93%) certified by Eurovent.



- 3 Motors**
Equipped with plug-fan type fans, with single-phase EC motors.



- 4 Bypass**
All versions include internal bypass (flow rate approximately 75% over the nominal flow rate).

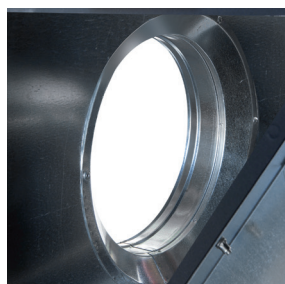
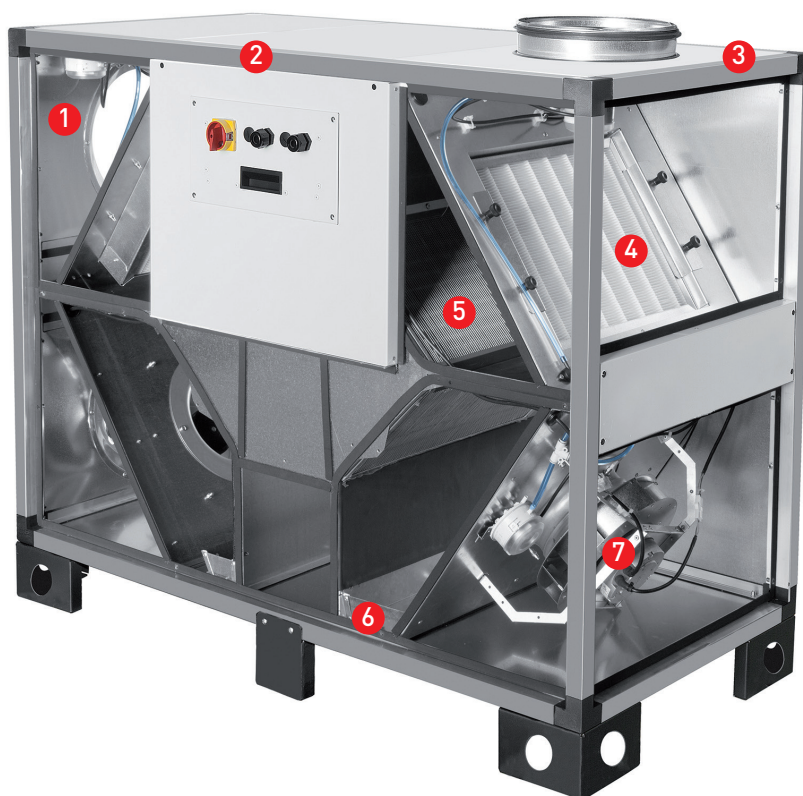


- 5 High-efficiency filters:**
- Low pressure F7 filters (ePM1 70%) for air supply.
 - M5 filters (ePM10 50%) in the extraction.
- Possibility of installing a second filter inside the system (supplied as an accessory).

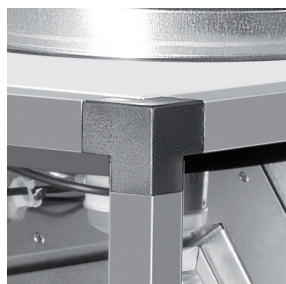


- 6 Easy assembly**
Specific supports for installation in false ceilings.

CADB-HE BASIC VERTICAL MODELS 04 TO 33



- 1 Ecodesign**
Streamlined aerodynamic design, to reduce internal pressure drop.



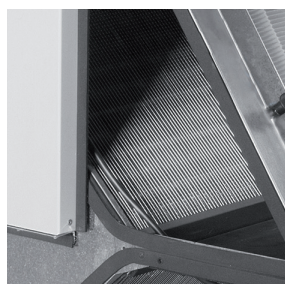
- 2 Low noise level and robust construction**
Casing with double skinned 25 mm panels with thermoacoustic flameproof insulation A1/M0, with high-quality finish and plastic corners.



- 3 Versatility**
Designed to allow the quickly reorientation of inputs and outputs through the exchange of two contiguous panels.



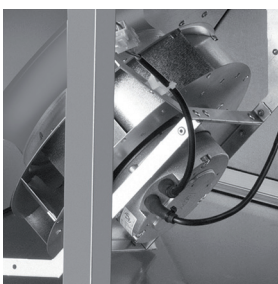
- 4 High-efficiency filters**
- Low pressure F7 filters (ePM1 70%) for air supply.
- M5 filters (ePM10 50%) in the extraction.
Possibility of mounting a second filter inside the unit (accessory).



- 5 Highly efficient heat exchanger** (up to 93%) certified by Eurovent. All versions include internal bypass (flow rate approximately 75% over nominal flow rate).

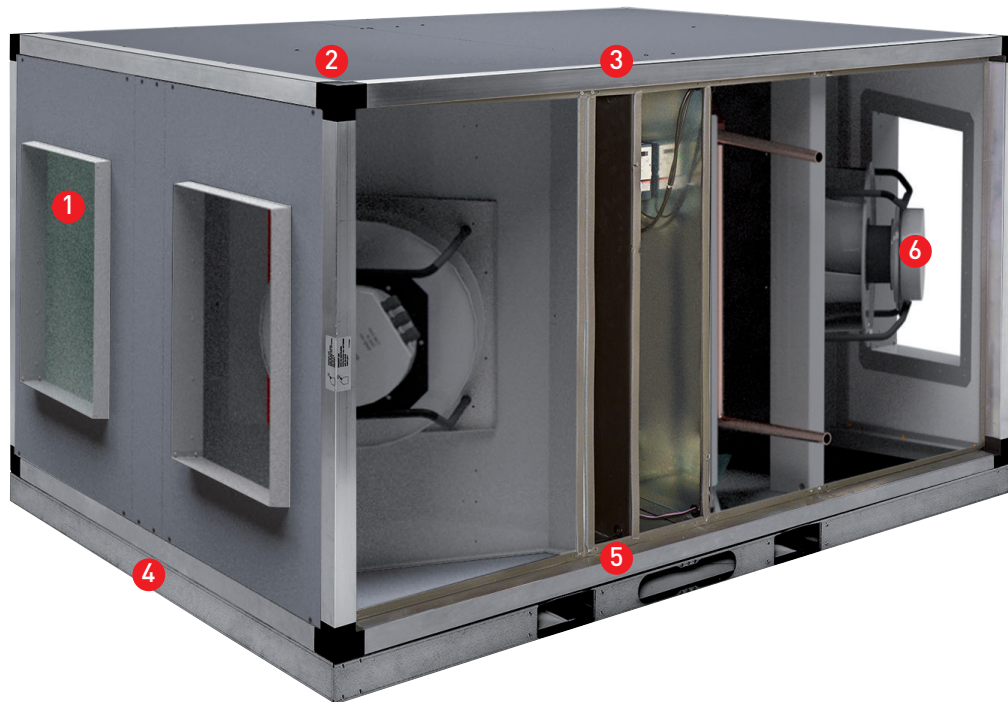


- 6 Condensate tray**
Double tray for summer and winter, with drain outlets on the bottom.

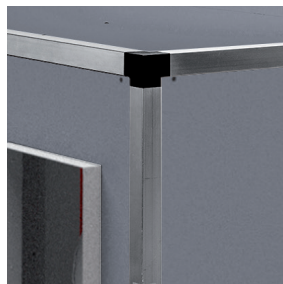


- 7 Motors**
Equipped with plug-fan type fans, with single-phase EC motors.

CADB/T-HE BASIC MG MODELS 45 TO 100



- 1 Highly efficient filters**
- Low pressure F7 filters (ePM1 70%) drop in the supply.
 - M5 filters (ePM10 50%) in the extraction.
- It is possible to mount a second filter inside the system (supplied as an accessory).



- 2 Low noise level and robust construction**
- Casing with 50 mm aluminum profiles structure. Double skinned panels with thermoacoustic flameproof insulation A1/M0, with high-quality finish and plastic corners.



- 3 Bypass**
- All versions include internal bypass (approximately 75% over the nominal airflow).



- 4 Structural base**
- It provides a high rigidity and allows the easy levelling of the unit in outdoor installations.

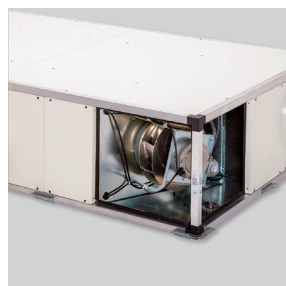


- 5 Highly efficient heat exchanger** (up to 93%) certified by Eurovent.



- 6 Motors**
- Equipped with plug-fan type fans, supplied by a three-phase EC motor.

HIGHEST FLEXIBILITY

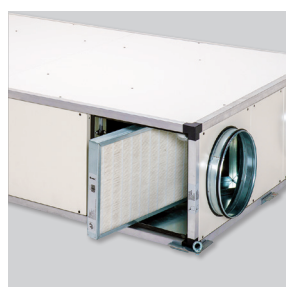


Versatile assembly

The design of our heat recovery units makes it possible for the user to configure them on site. Panels are interchangeable (except the control panel), which makes it possible to change the position of inlet and outlet connections directly on site, depending on the specific requirements.



Multiple possibilities for exchanging the panels.



Easy maintenance

Models 04 to 100: Easy access to filters from side panels.

Easy maintenance

Models 04 to 33: Easy access to filters from bottom panels.



Models 04 to 33: Easy access for cleaning the exchanger from side and bottom panels. Disassembly required.
Models 45 to 100: Easy access for cleaning the exchanger from side panels.

REFERENCE

C	A	D	B	-	HE	D	16	LH	BASIC	MG
1						2	3	4	5	6

1 - Series:

CADB-HE: Single-phase power supply.

CADT-HE: Three-phase power supply.

2 - Range, according to heating options:

D: Range without additional heating coil/battery.

3 - Size

4 - Type of configuration:

LH: Left Horizontal

RH: Right Horizontal

LV: Left Vertical

RV: Right Vertical

5 - BASIC: Plug & Play BASIC control included. High efficiency EC-Technology fans.

6 - MG: Magnelis ZM310®

STANDARD VERSIONS CADB/T-HE BASIC

Horizontal Versions

CADB-HE	-D	04	LH	BASIC	
CADB-HE	-D	08	LH	BASIC	
CADB-HE	-D	12	LH	BASIC	
CADB-HE	-D	16	LH	BASIC	
CADB-HE	-D	21	LH	BASIC	
CADB-HE	-D	27	LH	BASIC	
CADB-HE	-D	33	LH	BASIC	
CADT-HE	-D	33HP	LH	BASIC	
CADT-HE	-D	45	LH	BASIC	MG
CADT-HE	-D	60	LH	BASIC	MG

CADB-HE	-D	04	RH	BASIC	
CADB-HE	-D	08	RH	BASIC	
CADB-HE	-D	12	RH	BASIC	
CADB-HE	-D	16	RH	BASIC	
CADB-HE	-D	21	RH	BASIC	
CADB-HE	-D	27	RH	BASIC	
CADB-HE	-D	33	RH	BASIC	
CADT-HE	-D	33HP	RH	BASIC	
CADT-HE	-D	45	RH	BASIC	MG
CADT-HE	-D	60	RH	BASIC	MG

Vertical Versions

CADB-HE	-D	04	LV	BASIC	MG
CADB-HE	-D	08	LV	BASIC	MG
CADB-HE	-D	12	LV	BASIC	MG
CADB-HE	-D	16	LV	BASIC	MG
CADB-HE	-D	21	LV	BASIC	MG
CADB-HE	-D	27	LV	BASIC	MG
CADB-HE	-D	33	LV	BASIC	MG
CADT-HE	-D	33HP	LV	BASIC	MG
CADT-HE	-D	45	LV	BASIC	MG
CADT-HE	-D	60	LV	BASIC	MG
CADT-HE	-D	100	LV	BASIC	MG

CADB-HE	-D	04	RV	BASIC	MG
CADB-HE	-D	08	RV	BASIC	MG
CADB-HE	-D	12	RV	BASIC	MG
CADB-HE	-D	16	RV	BASIC	MG
CADB-HE	-D	21	RV	BASIC	MG
CADB-HE	-D	27	RV	BASIC	MG
CADB-HE	-D	33	RV	BASIC	MG
CADT-HE	-D	33HP	RV	BASIC	MG
CADT-HE	-D	45	RV	BASIC	MG
CADT-HE	-D	60	RV	BASIC	MG
CADT-HE	-D	100	RV	BASIC	MG

HIGH-EFFICIENCY HEAT RECOVERY UNITS CONFIGURABLE FOR USE WITHOUT COILS

CADB/T-HE BASIC Series



TECHNICAL CHARACTERISTICS

	Complete unit						Fan		Weight (kg)
	Air connections diameter (mm)	Nominal airflow at 150Pa (m³/h)	Efficiency*1 (%)	Electrical supply	Maximum absorbed power (kW)	Maximum current (A)	Maximum speed (r.p.m.)	Maximum current (A) Each fan	
CADB-HE D 04 BASIC	200	450	87	1/230V, 50Hz	0,35	2,2	3700	1,0	147
CADB-HE D 08 BASIC	250	800	86,4	1/230V, 50Hz	0,53	2,9	2650	1,3	183
CADB-HE D 12 BASIC	315	1.200	85,3	1/230V, 50Hz	1,10	3,5	2550	1,6	190
CADB-HE D 16 BASIC	315	1.600	85,5	1/230V, 50Hz	1,10	4,3	2845	2,0	235
CADB-HE D 21 BASIC	400	2.100	86,5	1/230V, 50Hz	1,13	4,7	1580	2,2	333
CADB-HE D 27 BASIC	400	2.700	83,8	1/230V, 50Hz	1,84	7,5	2450	3,6	367
CADB-HE D 33 BASIC	400	3.300	89,9	1/230V, 50Hz	2,32	9,6	2200	4,6	420
CADT-HE D 33HP BASIC	590x540 1110x490	3.300*2	89,9	3+N/400V, 50Hz	3,45	5,6	2600	2,8	420
CADT-HE D 45 BASIC	400x600	4.500*3	88,4	3+N/400V, 50Hz	4,43	6,3	2200	3,2	597
CADT-HE D 60 BASIC	500x700	6.100	89	3+N/400V, 50Hz	4,43	6,3	2200	3,0	730
CADT-HE D 100 BASIC	1100x610	10.000*4	88,9	3+N/400V, 50Hz	8,13	11,9	2160	6,0	862

*1 Wet efficiency referring to nominal airflow, outdoor conditions [-5°C / 80% RH] and indoor [20°C / 50% RH].

*2 CADT-HE 33 HP airflow referred to 550Pa.

*3 CADT-HE 45 airflow referred to 450Pa.

*4 CADT-HE 100 airflow referred to 300Pa.

ACOUSTIC CHARACTERISTICS

Model	Sound pressure (LpA)*1			Sound power (LwA)		
	Inlet	Outlet	Radiated	Inlet	Outlet	Radiated
CADB-HE 04 BASIC	34	55	43	54	75	63
CADB-HE 08 BASIC	37	54	38	57	74	58
CADB-HE 12 BASIC	46	61	44	66	81	64
CADB-HE 16 BASIC	45	60	45	65	80	65
CADB-HE 21 BASIC	42	58	42	62	78	62
CADB-HE 27 BASIC	47	62	49	67	82	69
CADB-HE 33 BASIC	47	67	57	67	87	77
CADT-HE 33HP BASIC*2	50	72	58	65	87	73
CADT-HE 45 BASIC	46	68	57	66	88	77
CADT-HE 60 BASIC	47	65	58	67	85	78
CADT-HE 100 BASIC	50	68	61	70	88	81

*1 Average sound pressure level, in dB(A), in free field conditions at 3m distance.

*2 Values referenced to 3550 m³/h.

Depending on the installation conditions, type of enclosures, as well as characteristics of the materials used in walls and false ceilings, the real sound pressure levels may be very different from the values given in the table.

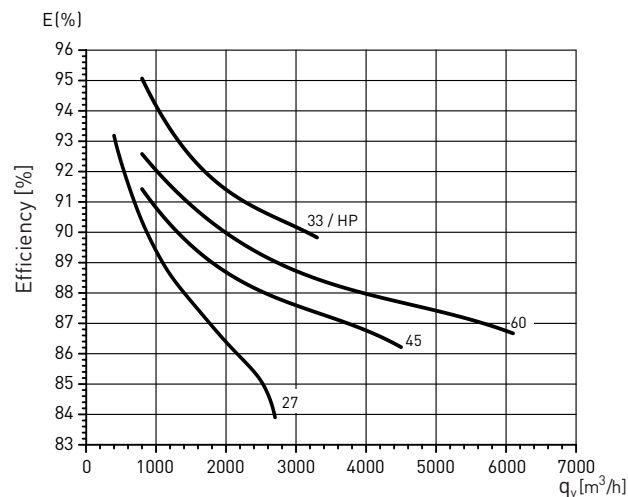
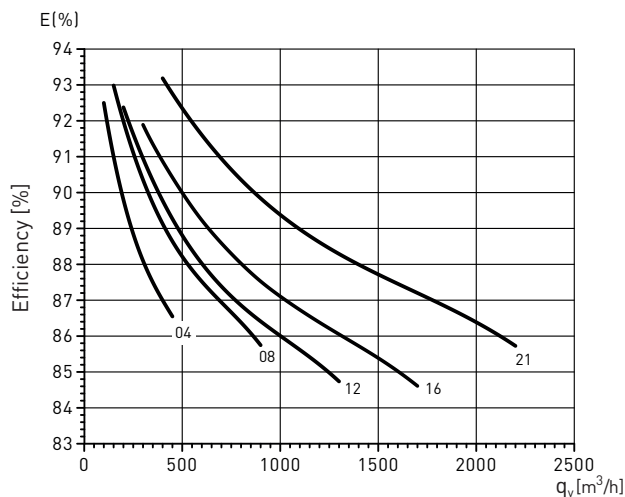
RECOVERY EFFICIENCY ACCORDING TO THE AIRFLOW

Values referring to the following conditions:

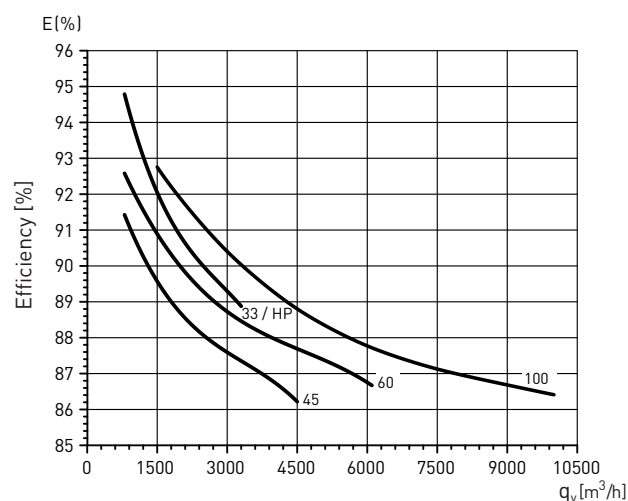
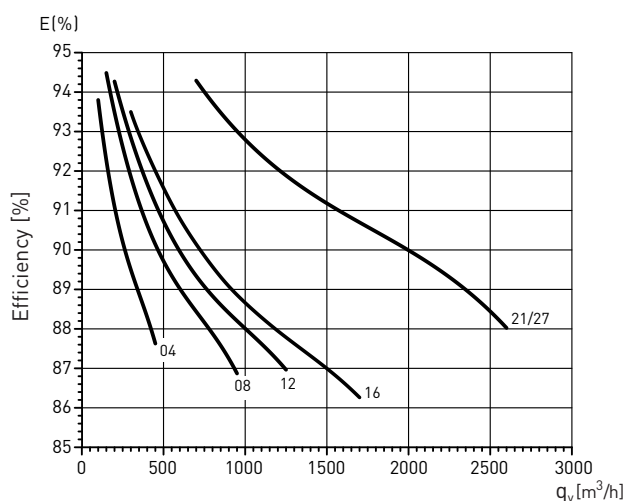
Outdoor air: Temperature = -5°, RH = 80%

Indoor air: Temperature = 20°C, RH = 50%

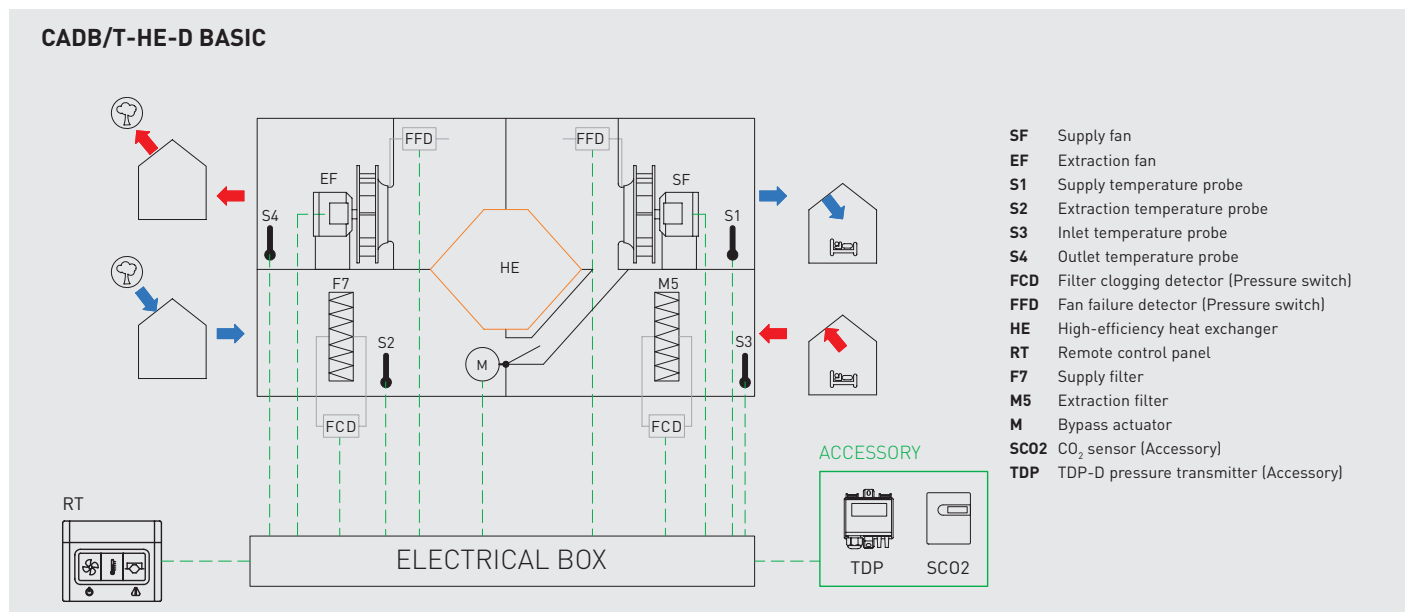
Horizontal Versions



Vertical Versions



MAIN COMPONENTS



PLUG & PLAY CONTROL BASIC FUNCTIONS

MAIN COMPONENTS

Control panel includes:

General switch.

Electrical panel including controller and component wiring, accessible from the side of the unit.

FUNCTIONS

Airflow adjustments

Manual fan speed adjustment, with three pre-set speeds.

Automatic fan speed adjustment in VAV mode, based on an external 0-10V signal (CO₂ sensor accessory).

Automatic fan speed adjustment in Constant Pressure mode.

The fan speed is adjusted to maintain a constant pressure in the duct network.

Applicable to multi-zone installations with motorised dampers.

BOOST function (high-speed timed activation via external volt-free contact).

STOP/START function via external volt-free contact.

Temperature adjustment

Temperature probes integrated within the unit (supply, extraction, inlet and outlet).

Bypass adjustments

Manual operation of bypass.

Automatic operation of bypass as part of the heat exchanger defrost strategy.

SECURITY FUNCTIONS

Control of clogged filters via pressure switches (included).

Alarm display on remote control.

Temperature probes failure detection.

Fan failure detector (by means of included pressure transmitters).

Heat exchanger frost protection by reducing supply flow and activating the bypass.

COMMUNICATION

Wired remote control.

ON/OFF remote digital input via external free voltage contact.

ALARM digital output.

Can be integrated into the BMS - Modbus RTU (RS-485).

RECOVERY EFFICIENCY RELATIVE TO OUTDOOR TEMPERATURE

Horizontal Versions

Model	Airflow (m³/h)	OUTDOOR AIR		SUPPLY AIR*		PERFORMANCE*	
		Temperature (°C)	RH (%)	Temperature (°C)	RH (%)	Humidity (%)	Recovered power (kW)
CADB-HE 04	400	-10	80	17,2	10,6	90,7	3,65
		-5	80	16,7	16,9	87	2,92
		0	70	16,6	22,7	82,8	2,23
		5	70	17,1	31,3	80,9	1,63
CADB-HE 08	800	-10	80	17	10,7	90,1	7,3
		-5	80	16,6	17	86,4	5,8
		0	70	16,6	22,9	82,2	4,4
		5	70	17	31,5	80,2	3,2
CADB-HE 12	1.200	-10	80	16,7	12	89,2	10,8
		-5	80	16,3	18,2	85,3	8
		0	70	16,2	23,2	80,9	6,5
		5	70	16,8	31,8	78,9	4,8
CADB-HE 16	1.600	-10	80	16,7	10,9	89,1	14,4
		-5	80	16,3	17,3	85,3	11,5
		0	70	16,2	23,3	80,9	8,7
		5	70	16,8	31,9	78,8	6,4
CADB-HE 21	2.100	-10	80	17,1	10,7	90,2	19,1
		-5	80	16,6	17	86,5	15,2
		0	70	16,5	22,9	82,3	11,6
		5	70	17	31,4	80,3	8,5
CADB-HE 27	2700	-10	80	17	10,7	90,1	24,3
		-5	80	16,6	17,1	86,3	19,2
		0	70	16,4	23	82	14,4
		5	70	17	31,6	80	10,8
CADB/T-HE 33 / HP	3.300	-10	80	17,6	10	92,1	30,3
		-5	80	17,1	16	88,4	24,0
		0	70	16,8	22	84,2	18,0
		5	70	17,3	31	82,2	12,7
CADT-HE 45	4.500	-10	80	17,2	11,7	90,6	39,5
		-5	80	17,2	17,1	89	32,6
		0	70	17,5	21,4	87,3	25,8
		5	70	17,7	30,1	84,8	19
CADT-HE 60	6.100	-10	80	17,2	11,7	90,5	53,5
		-5	80	17,2	17,1	88,9	44,2
		0	70	17,4	21,4	87,2	34,9
		5	70	17,7	30,1	84,8	25,7

*For indoor temperature of 20°C 50%.

RECOVERY EFFICIENCY RELATIVE TO OUTDOOR TEMPERATURE

Vertical Versions

Model	Airflow (m³/h)	OUTDOOR AIR		SUPPLY AIR*		PERFORMANCE*	
		Temperature (°C)	RH (%)	Temperature (°C)	RH (%)	Efficiency (%)	Recovered power (kW)
CADB-HE 04	450	-10	80	17,5	10,4	91,7	3,7
		-5	80	17	16,7	87,8	3
		0	70	16,7	22,8	83,3	2,3
		5	70	17,1	31,4	80,8	1,7
CADB-HE 08	800	-10	80	17,5	10,4	91,7	6,6
		-5	80	17	16,7	87,9	5,4
		0	70	16,7	22,6	83,4	4,2
		5	70	17,1	31,4	80,9	3,1
CADB-HE 12	1.200	-10	80	17,3	10,5	91,2	9,9
		-5	80	16,8	16,9	87,2	8
		0	70	16,5	22,9	82,6	6,2
		5	70	17	31,6	80,1	4,6
CADB-HE 16	1.600	-10	80	17,2	10,6	90,8	13,1
		-5	80	16,7	17,2	86,8	10,7
		0	70	16,4	23,1	82,2	8,3
		5	70	17	31,7	79,9	6,1
CADB-HE 21	2100	-10	80	16,7	12	89,1	18,9
		-5	80	16,9	17,5	87,6	15,5
		0	70	17,2	21,8	85,9	12,2
		5	70	17,5	30,4	83,6	8,9
CADB-HE 27	2700	-10	80	16,4	12,2	88	24
		-5	80	16,6	17,8	86,4	19,6
		0	70	16,9	22,2	84,5	15,4
		5	70	17,3	31	81,8	11,2
CADB/T-HE 33 / HP	3.300	-10	80	16,7	12	88,9	28,4
		-5	80	16,8	17,6	87,1	23,4
		0	70	17	22	85,0	18,4
		5	70	17,3	30,9	82,0	13,5
CADT-HE 45	4.500	-10	80	17,2	11,7	90,6	39,5
		-5	80	17,2	17,1	89	32,6
		0	70	17,5	21,4	87,3	25,8
		5	70	17,7	30,1	84,8	19
CADT-HE 60	6.100	-10	80	17,2	11,7	90,5	53,5
		-5	80	17,2	17,1	88,9	44,2
		0	70	17,4	21,4	87,2	34,9
		5	70	17,7	30,1	84,8	25,7
CADT-HE 100	10.000	-10	80	16,4	12,2	87,9	88,7
		-5	80	16,6	17,8	86,4	72,7
		0	70	16,9	22,2	84,4	57
		5	70	17,3	31	81,7	41,5

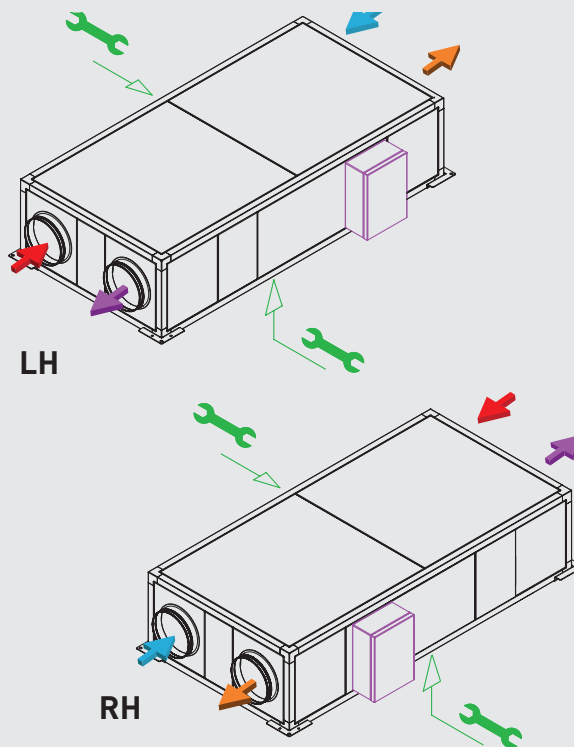
*For indoor temperature of 20°C 50%.

STANDARD CONFIGURATIONS CADB/T-HE D BASIC

From these configurations, there are multiple variables that can be made by the professional installer in a quick, easy way.

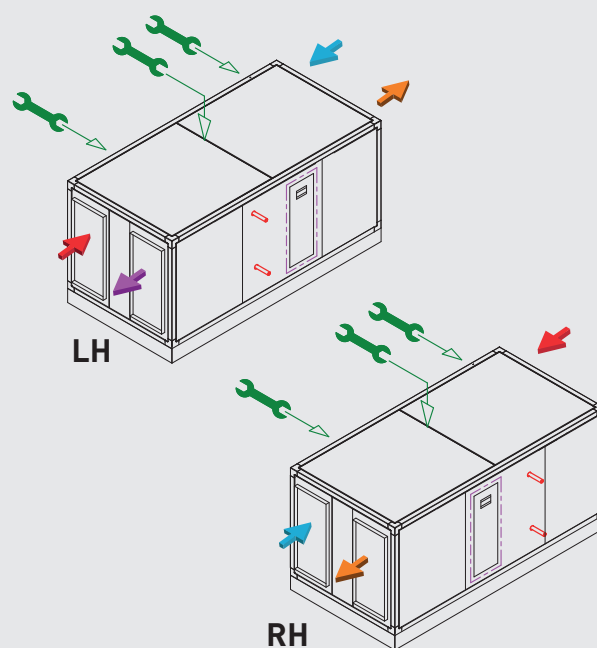


CADB-HE 04 to 33
Horizontal versions (false ceiling)

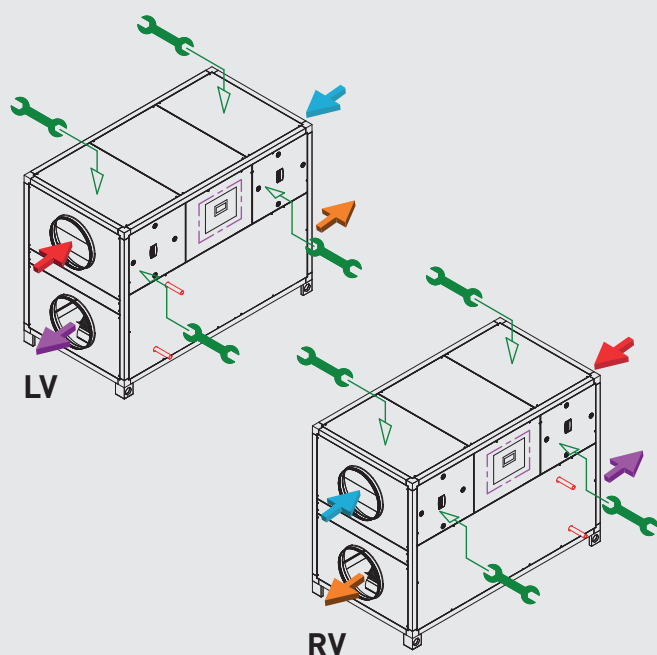


CADT-HE 33HP: Rectangular inlets

CADT-HE 45 and 60
Horizontal versions

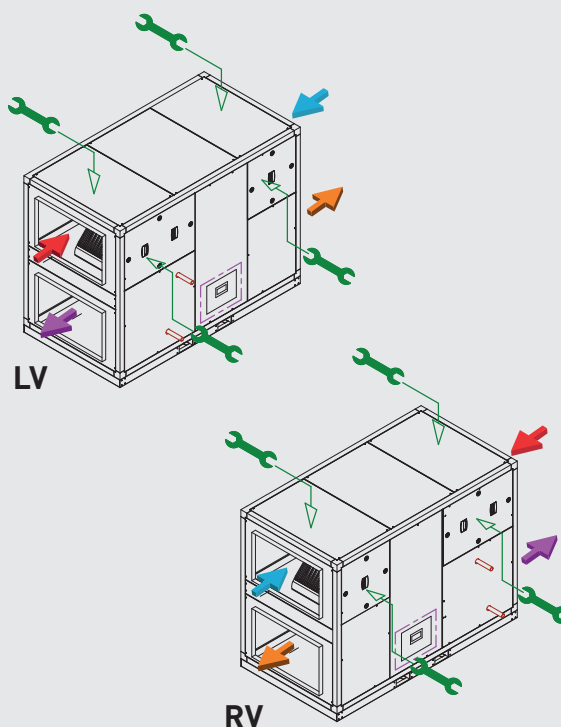


CADB-HE 04 to 33
Vertical versions



CADT-HE 33HP: Rectangular inlets

CADT-HE 45 to 100
Vertical versions





DIMENSIONS (mm)

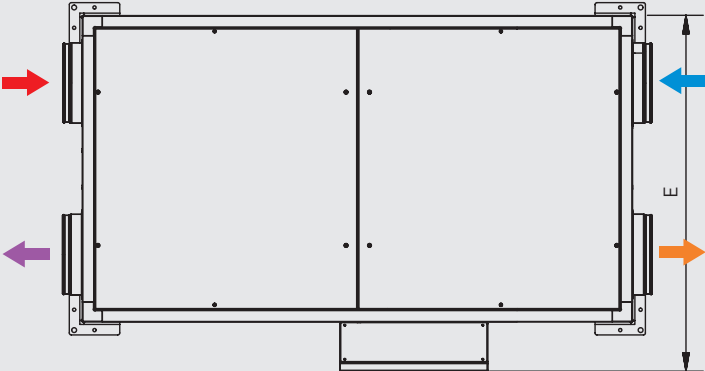
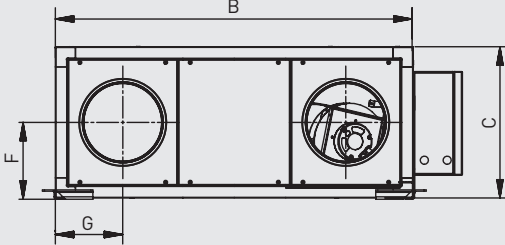
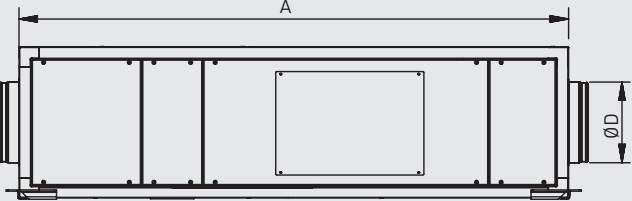
CADB-HE 04 to 33 LH

 FRESH OUTDOOR AIR

 FRESH OUTDOOR AIR SUPPLY

 INDOOR AIR EXTRACTION

 INDOOR AIR EXPULSION



Model	A	B	C	D	E	F	G
04	1520	760	375	200	885	187	167
08	1750	910	425	250	1035	212	198
12	1700	1050	425	315	1175	212	225
16	1950	1240	450	315	1365	225	245
21	2300	1640	550	400	1765	275	300
27	2300	1640	550	400	1765	275	300
33	2300	1640	650	400	1765	325	300

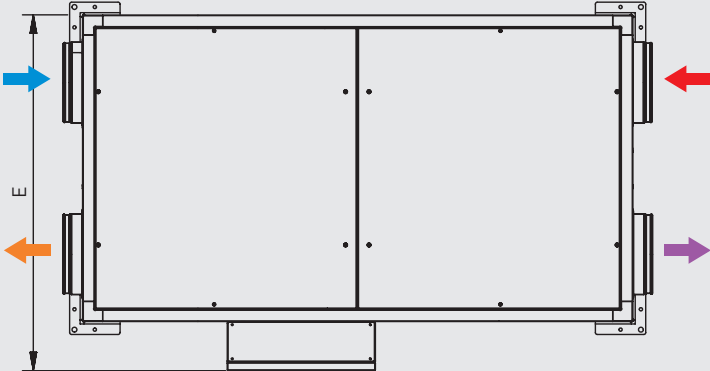
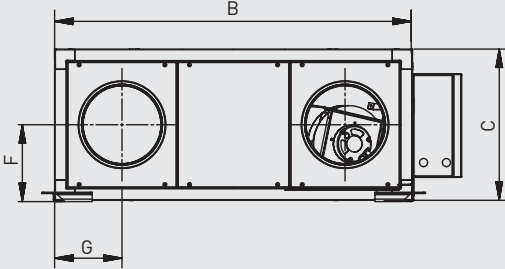
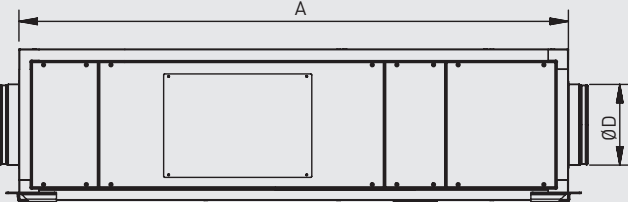
CADB-HE 04 to 33 RH

 FRESH OUTDOOR AIR

 FRESH OUTDOOR AIR SUPPLY

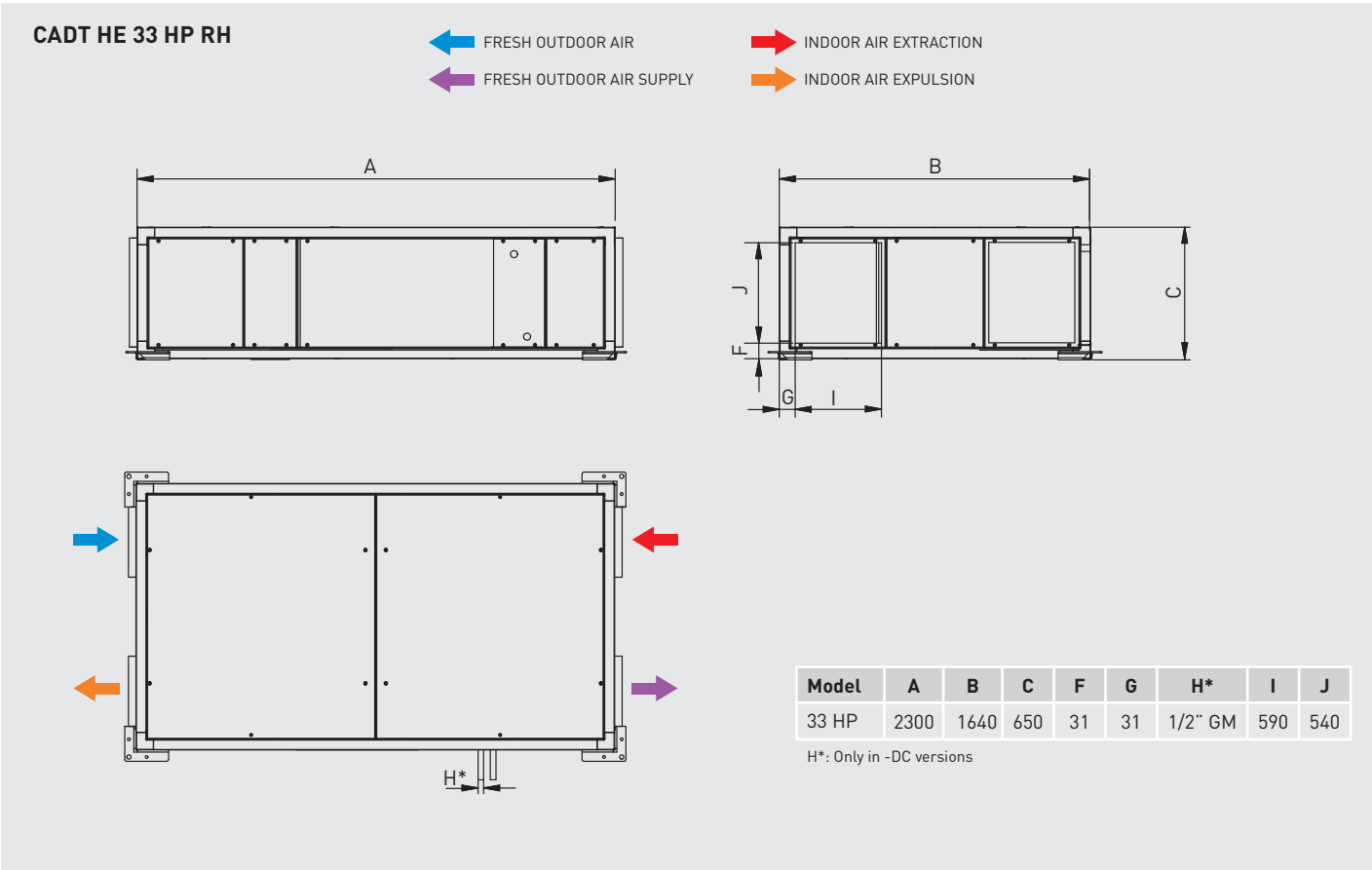
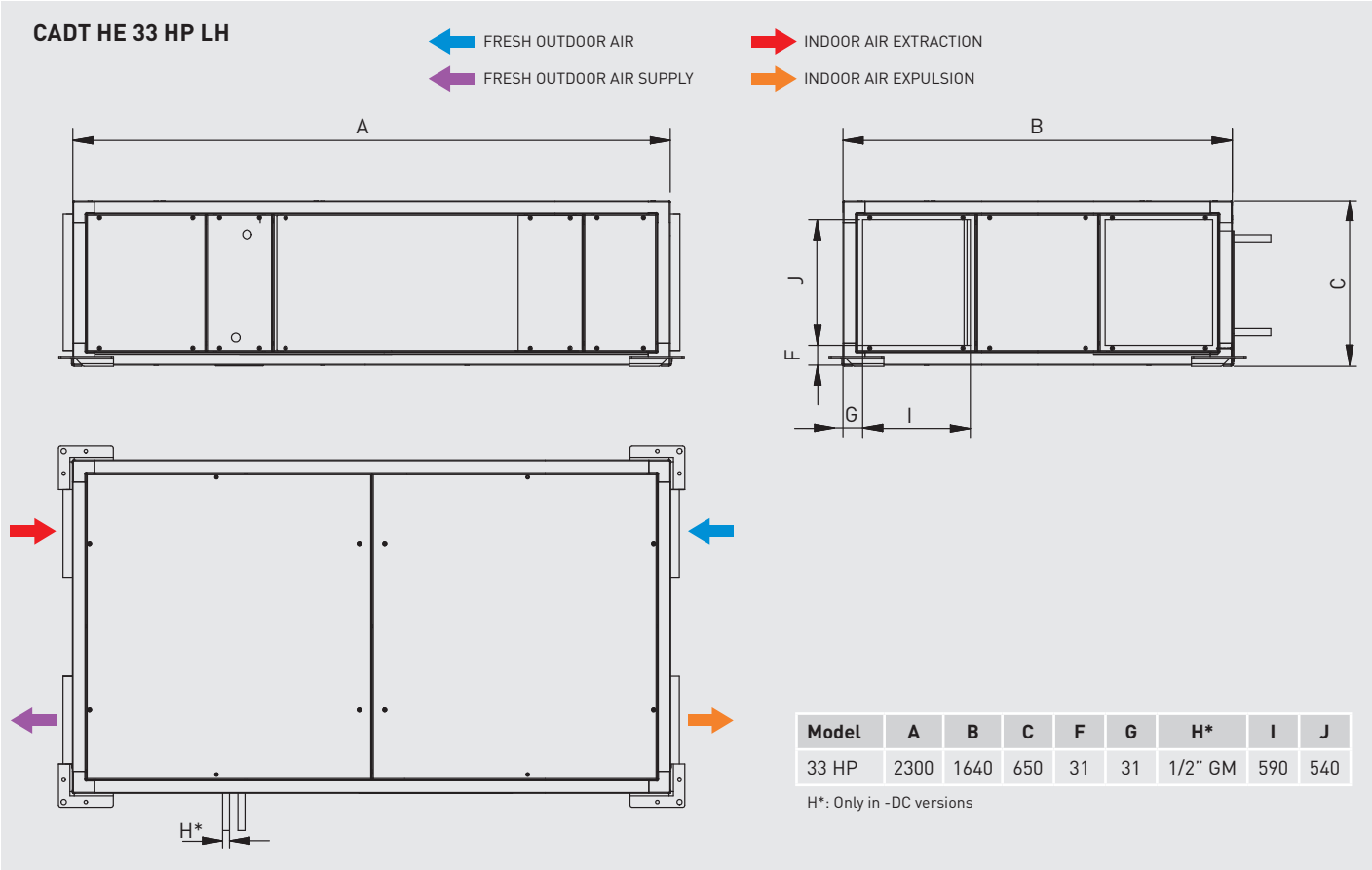
 INDOOR AIR EXTRACTION

 INDOOR AIR EXPULSION



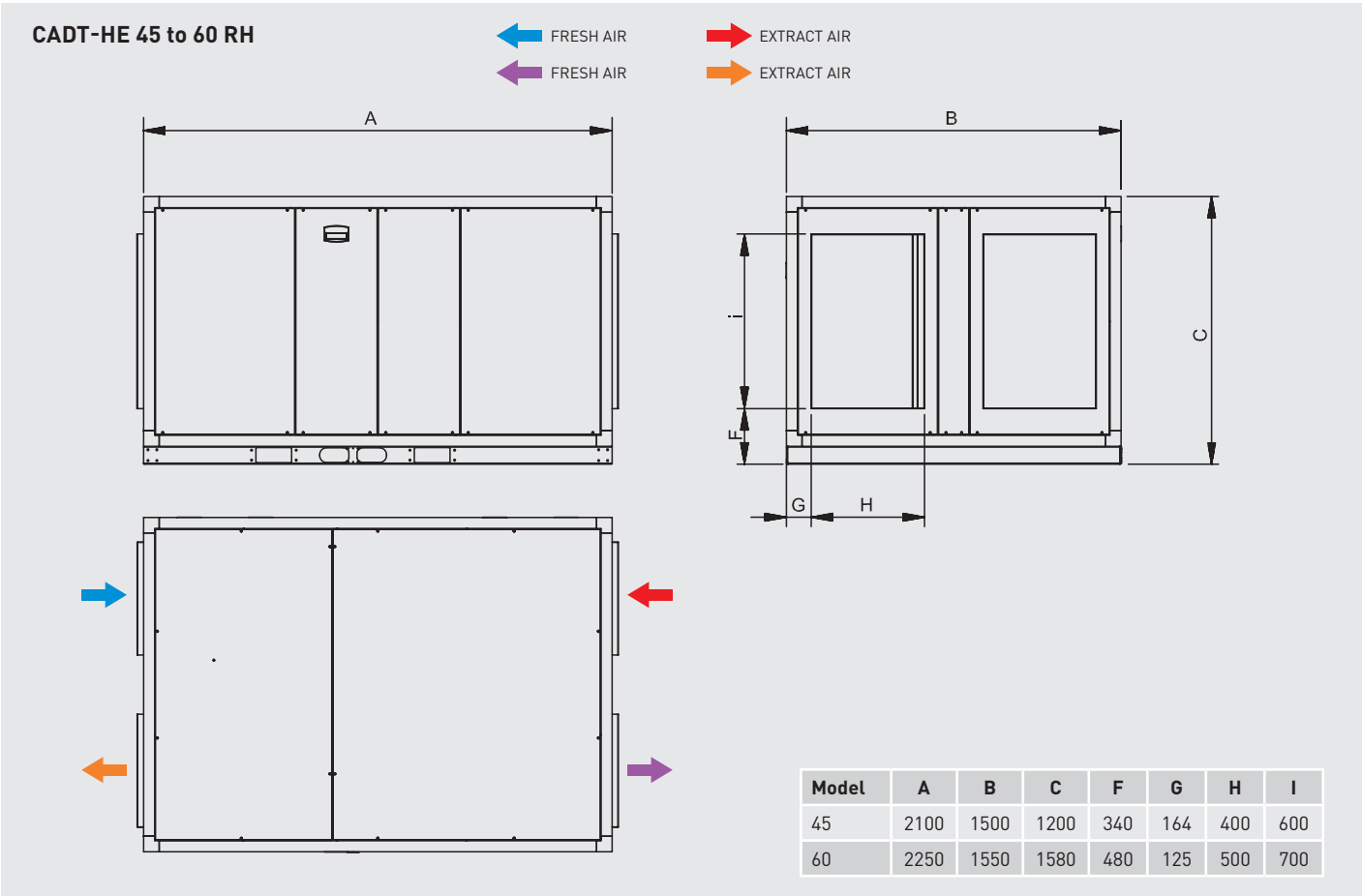
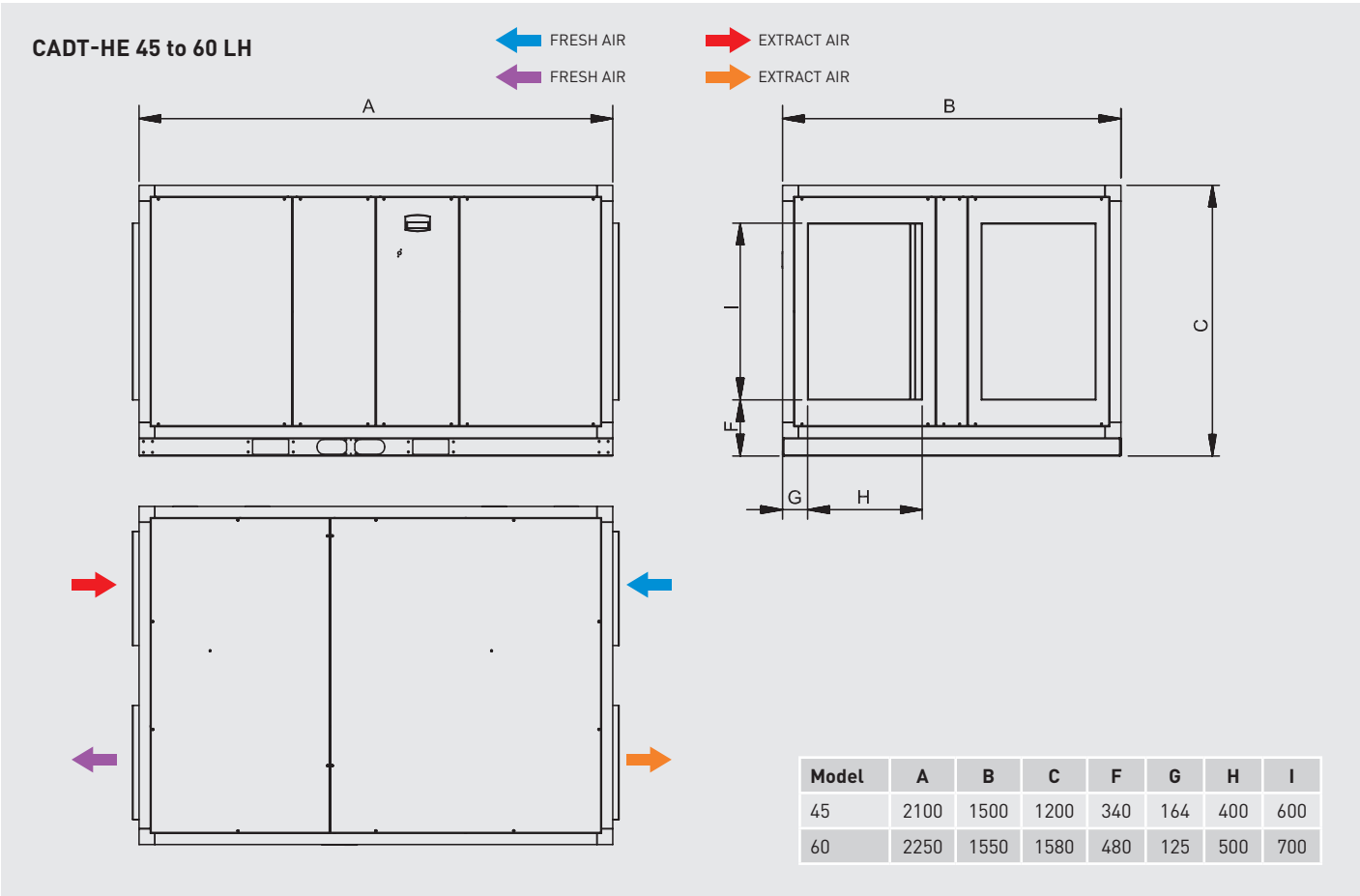
Model	A	B	C	D	E	F	G
04	1520	760	375	200	885	187	167
08	1750	910	425	250	1035	212	198
12	1700	1050	425	315	1175	212	225
16	1950	1240	450	315	1365	225	245
21	2300	1640	550	400	1765	275	300
27	2300	1640	550	400	1765	275	300
33	2300	1640	650	400	1765	325	300

DIMENSIONS (mm)

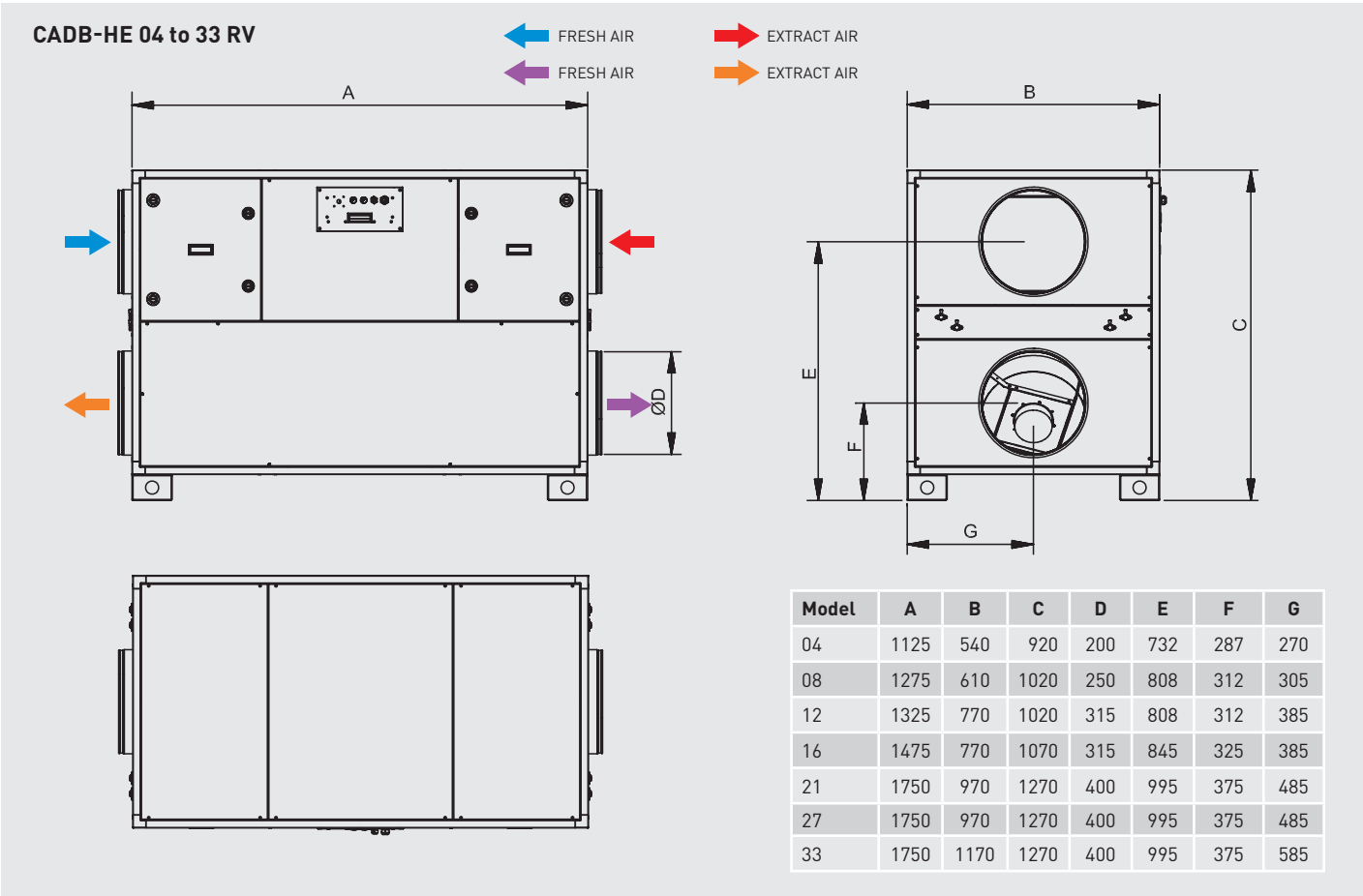
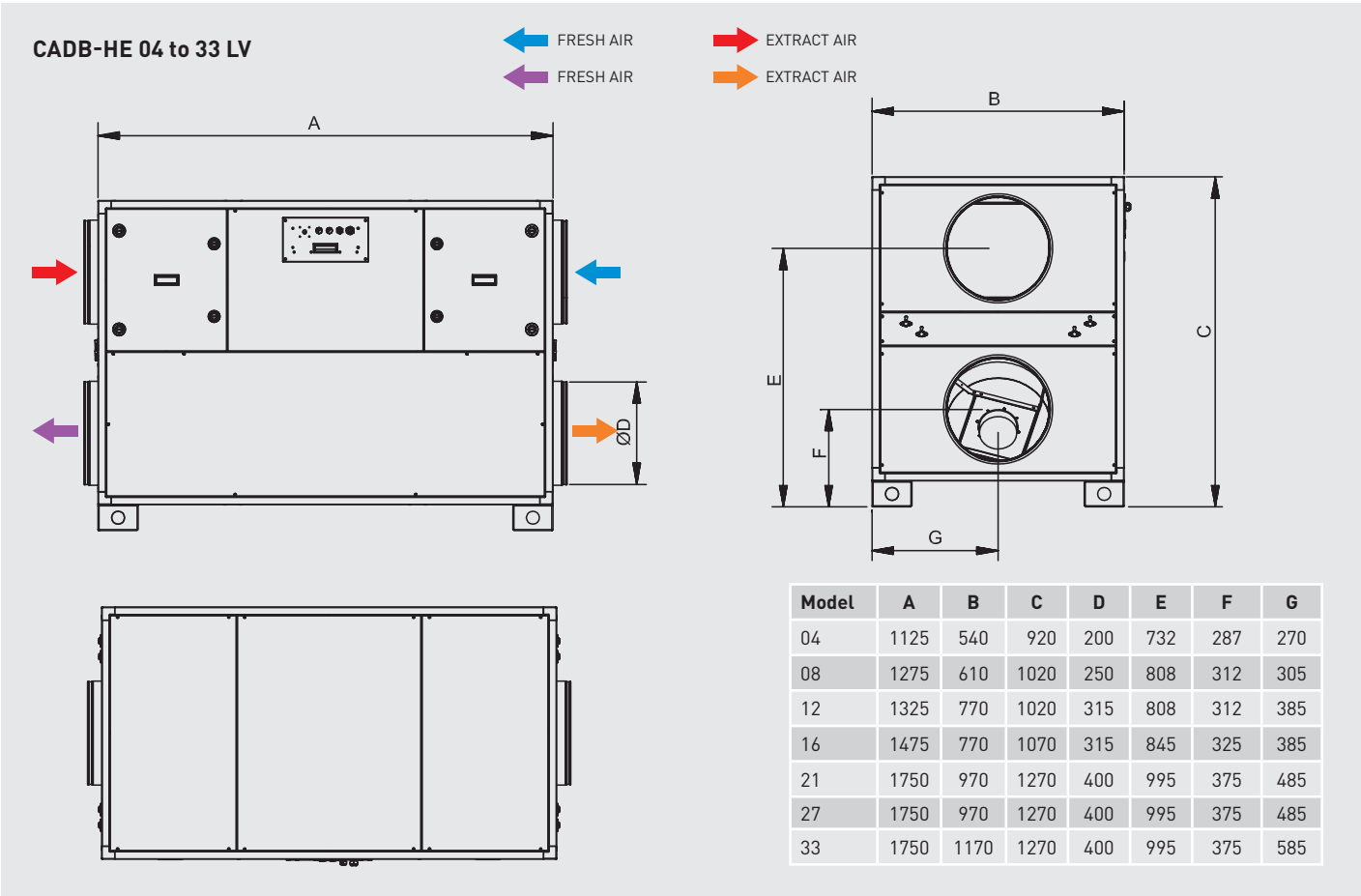




DIMENSIONS (mm)

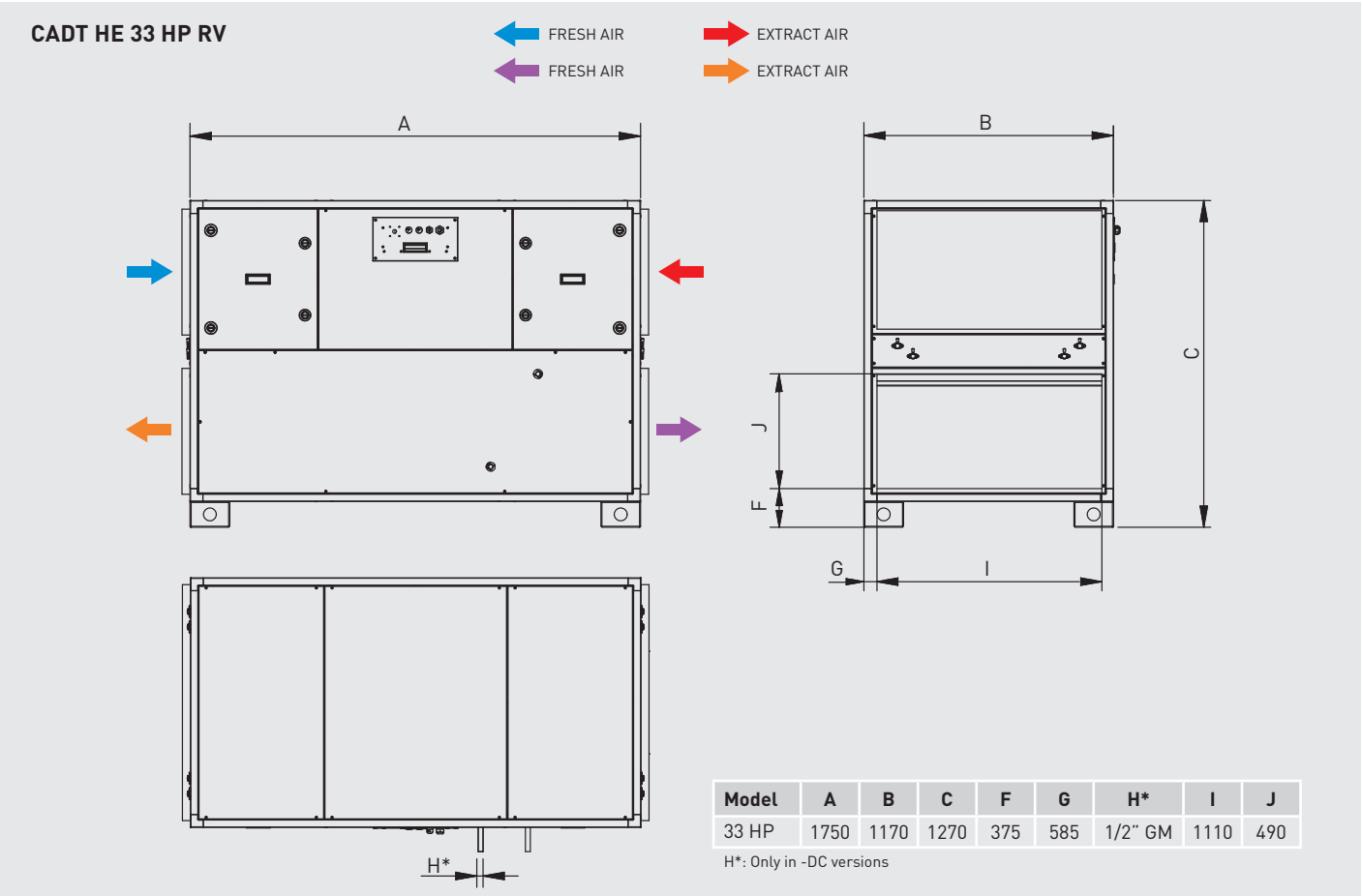
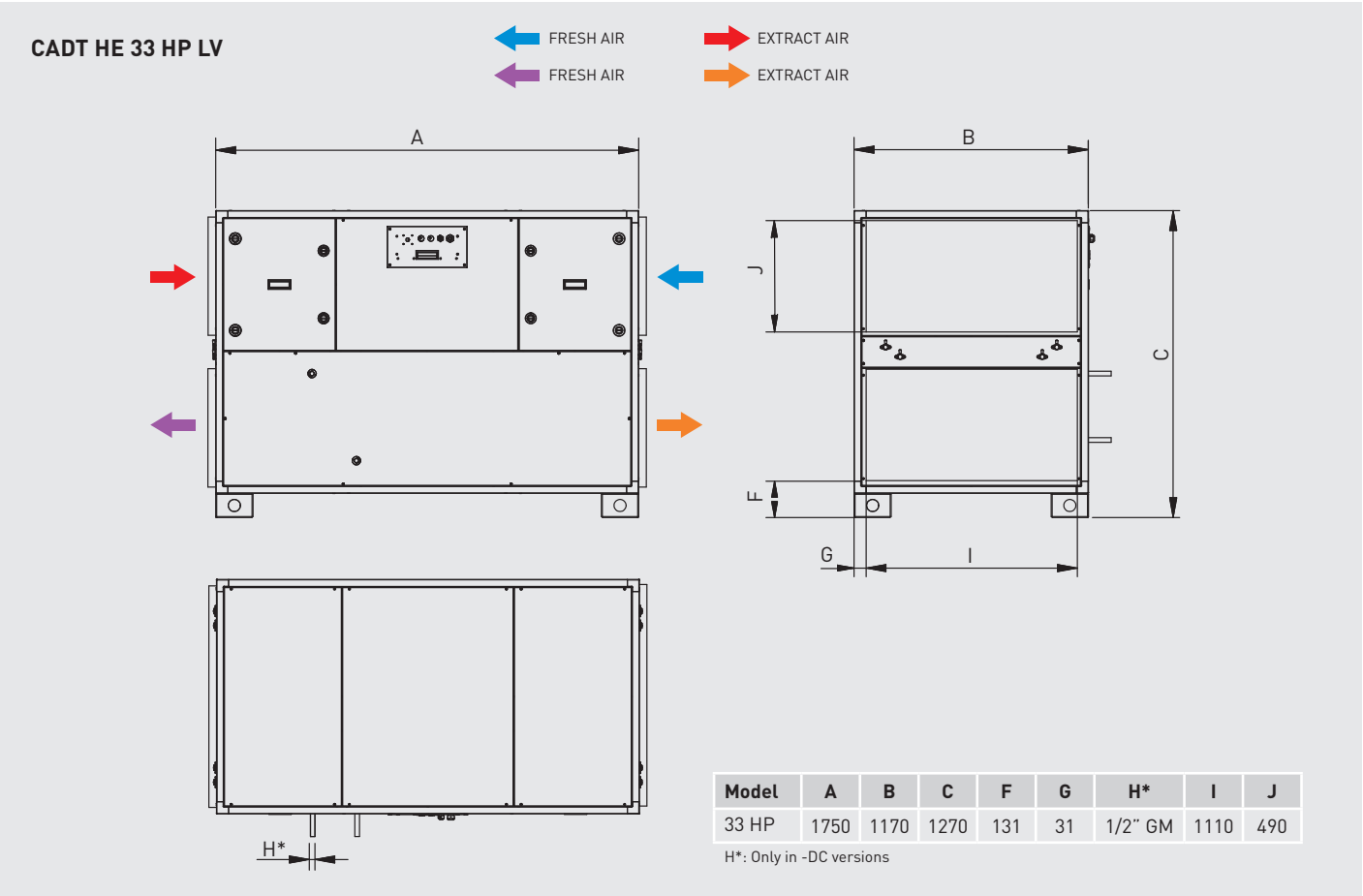


DIMENSIONS (mm)

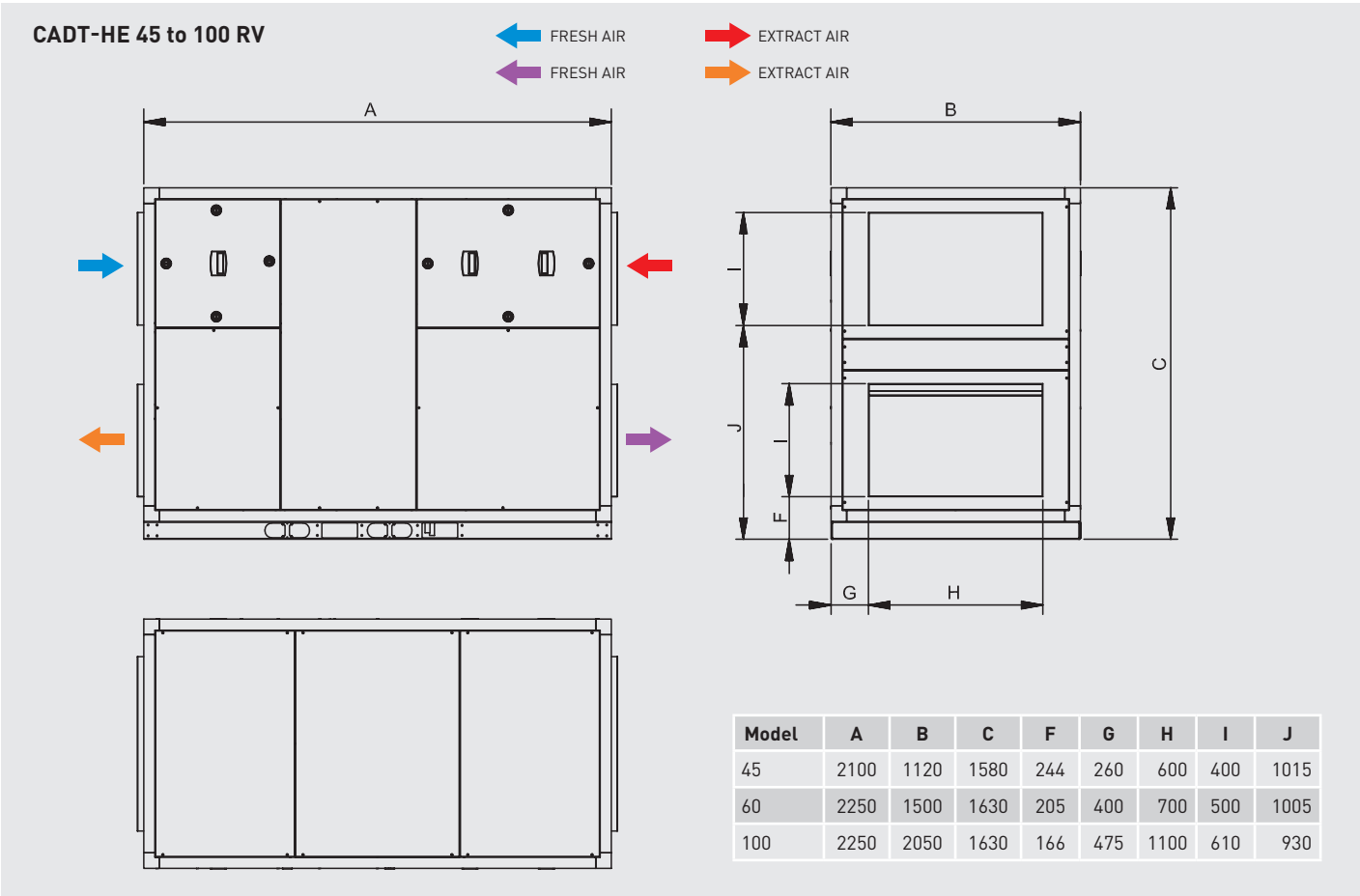
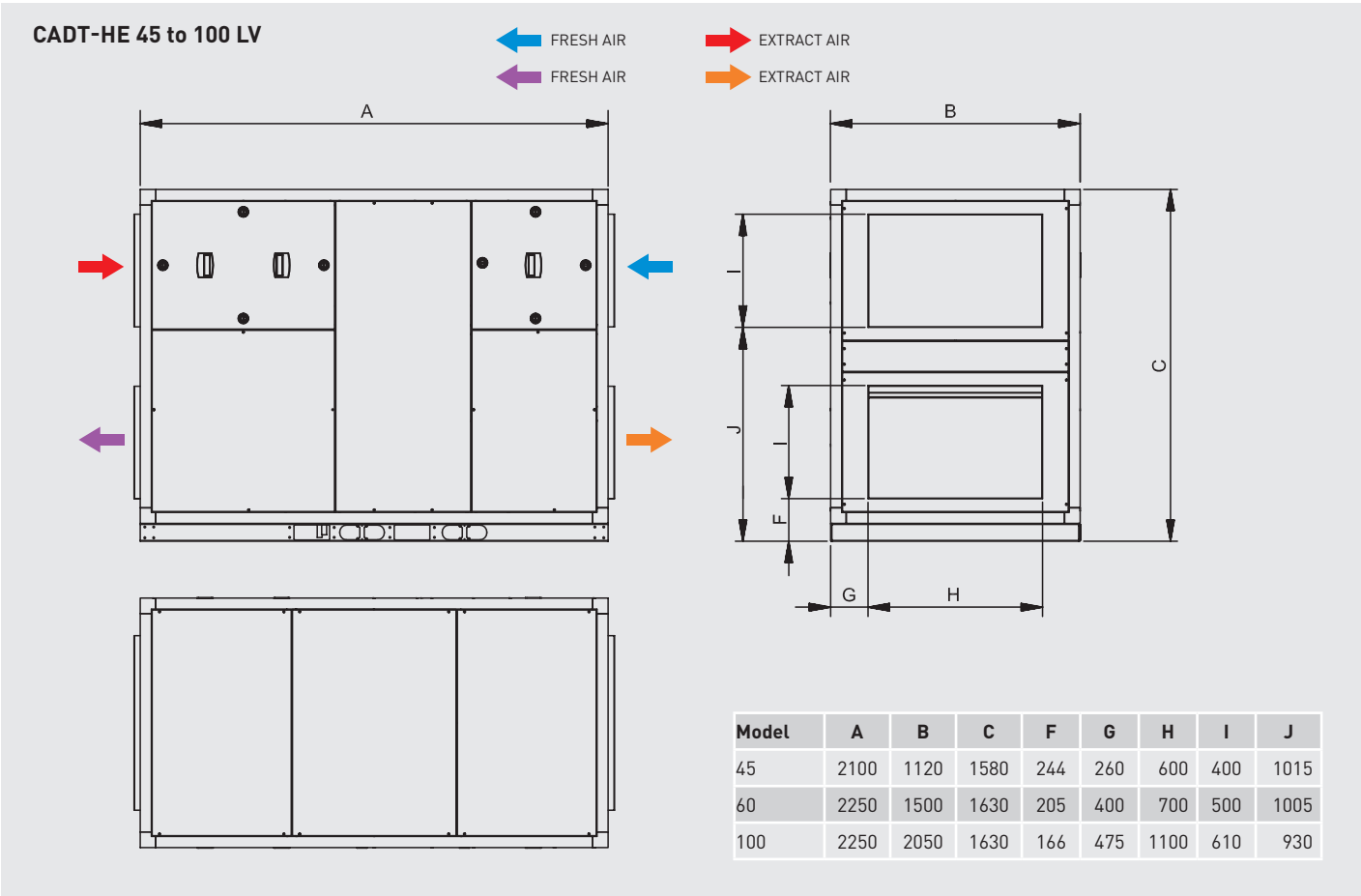




DIMENSIONS (mm)



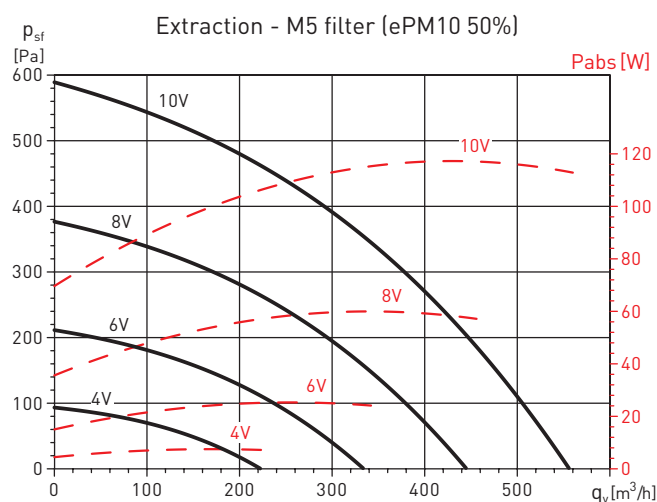
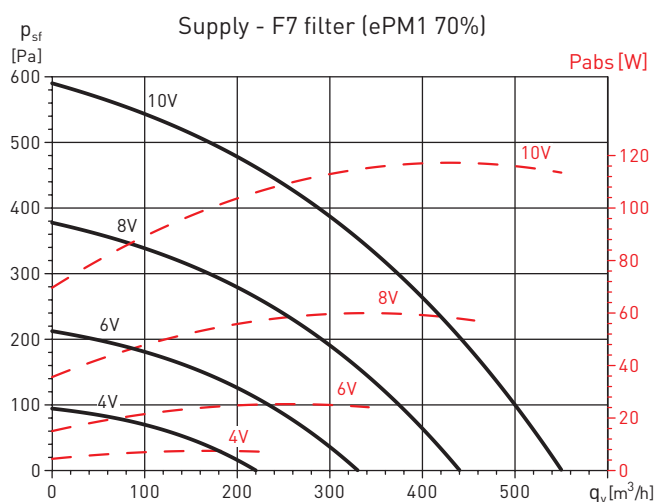
DIMENSIONS (mm)



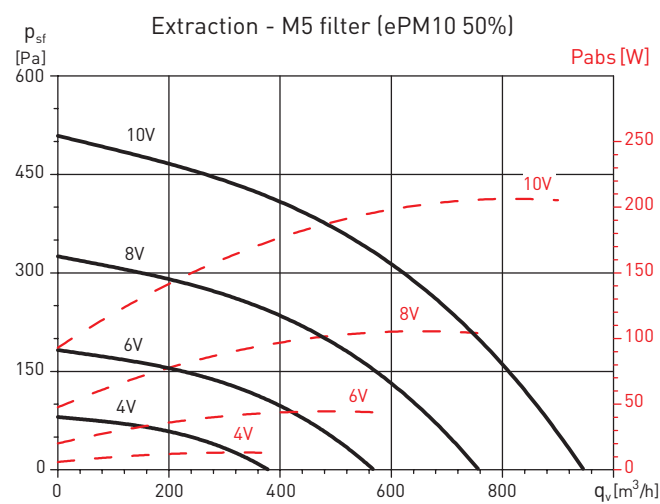
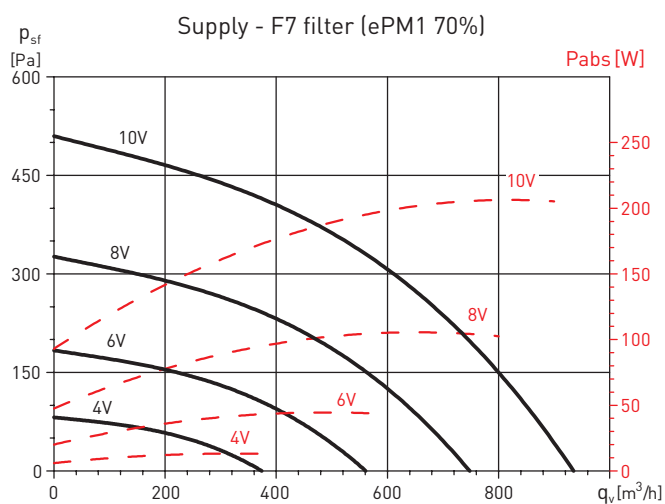
CHARACTERISTIC CURVES

- q_v : Flow rate (m^3/h).
- p_{sf} : Static pressure in Pa and mmcda.
- P_{abs} = Absorbed power at maximum speed (W).
- Normal dry air at 20°C and 760 mm.c.d.Hg.
- Tests performed according to ISO 5801 and AMCA 210-99.
- Absorbed power corresponding to a single circuit.

CADB-HE-D 04



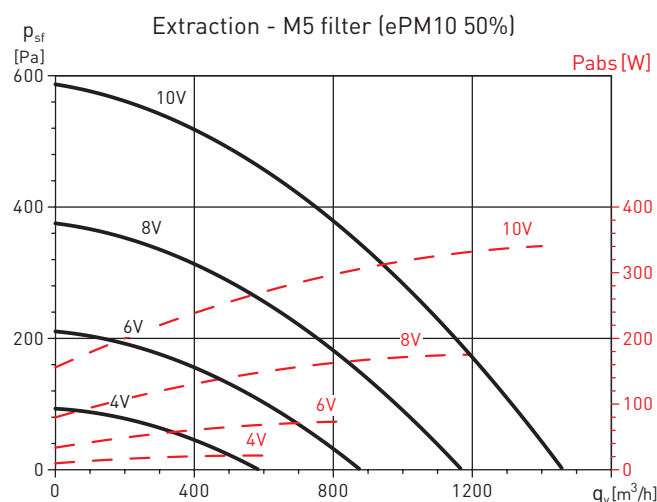
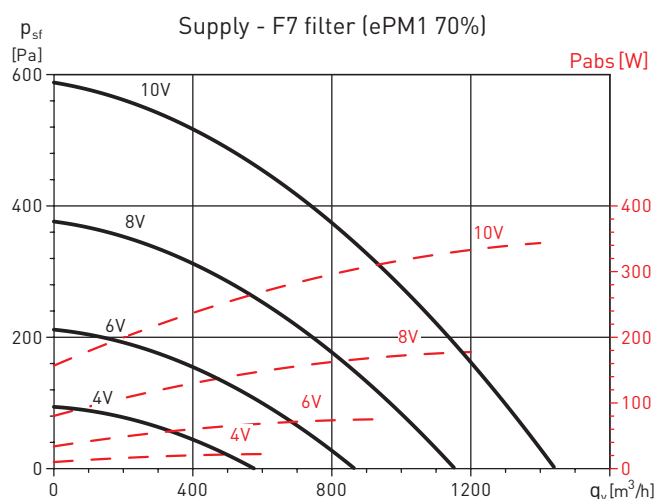
CADB-HE-D 08



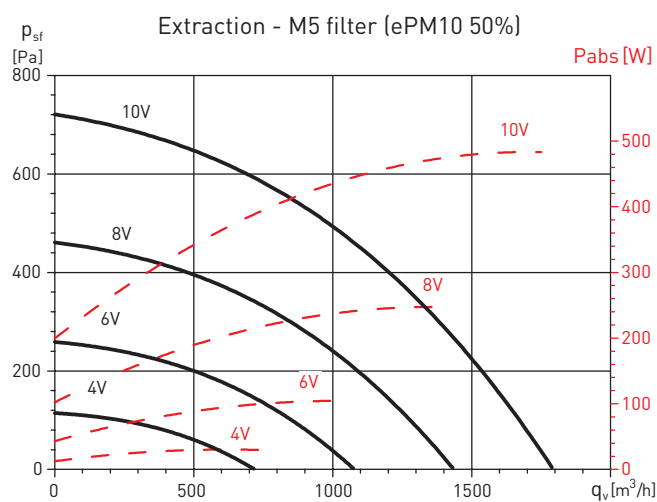
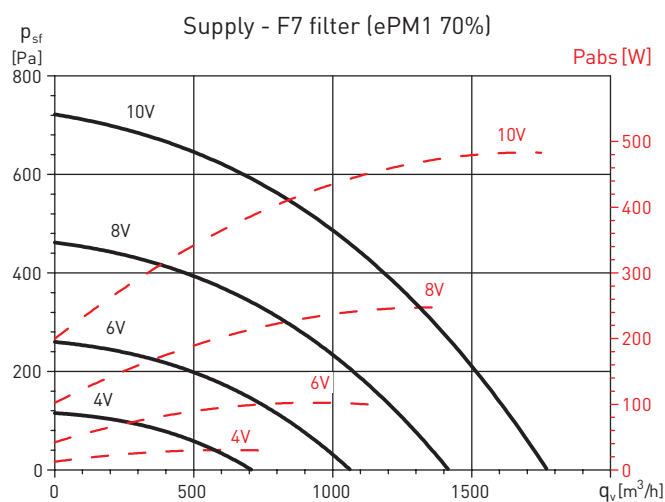
CHARACTERISTIC CURVES

- q_v : Flow rate (m^3/h).
- p_{sf} : Static pressure in Pa and mmcd.
- P_{abs} = Absorbed power at maximum speed (W).
- Normal dry air at 20°C and 760 mm.c.d.Hg.
- Tests performed according to ISO 5801 and AMCA 210-99.
- Absorbed power corresponding to a single circuit.

CADB-HE-D 12



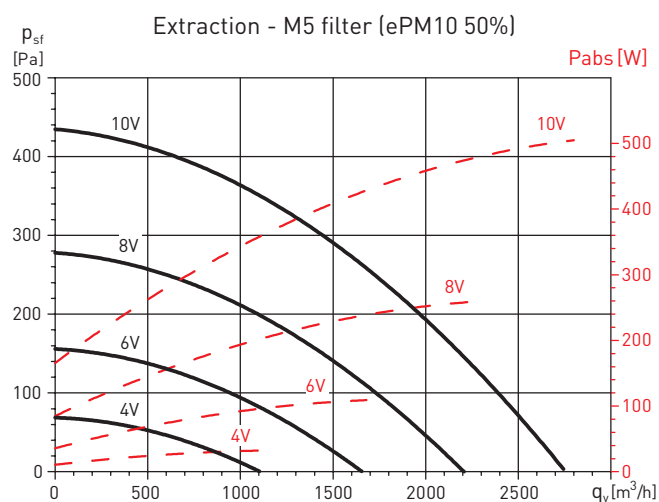
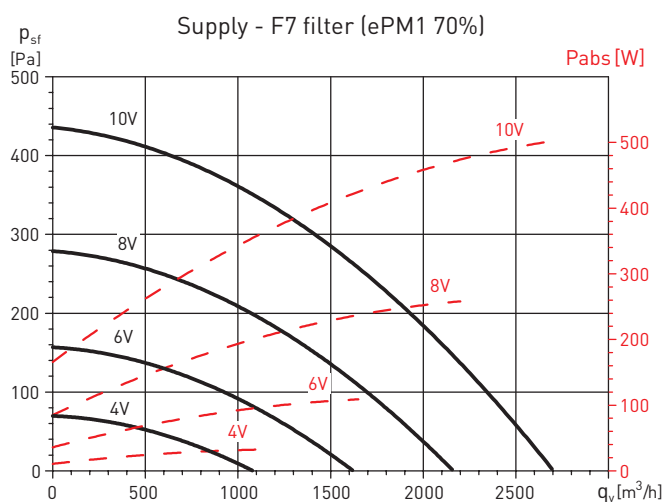
CADB-HE-D 16



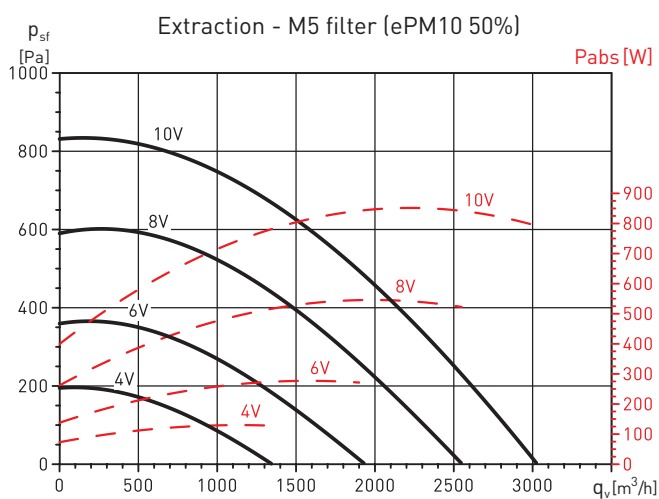
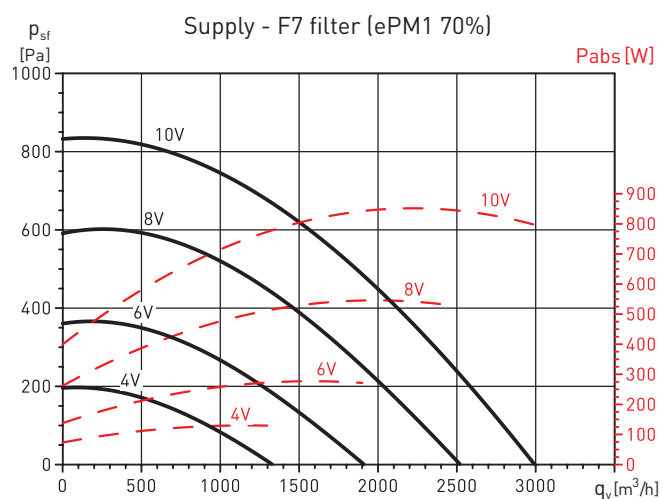
CHARACTERISTIC CURVES

- q_v : Flow rate (m³/h).
- p_{sf} : Static pressure in Pa and mmcda.
- P_{abs} = Absorbed power at maximum speed (W).
- Normal dry air at 20°C and 760 mm.c.d.Hg.
- Tests performed according to ISO 5801 and AMCA 210-99.
- Absorbed power corresponding to a single circuit.

CADB-HE-D 21



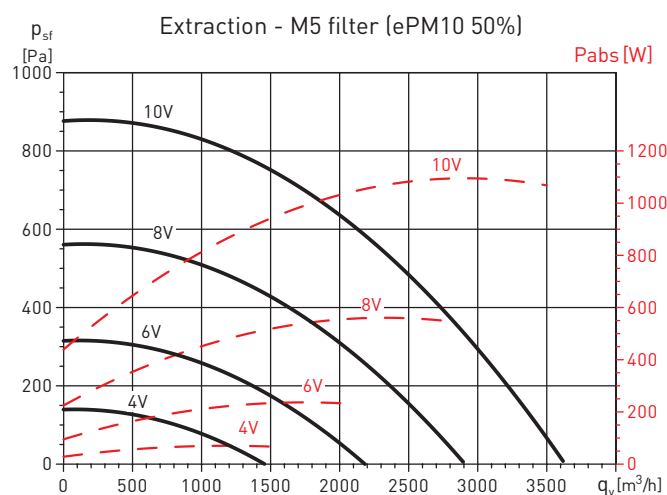
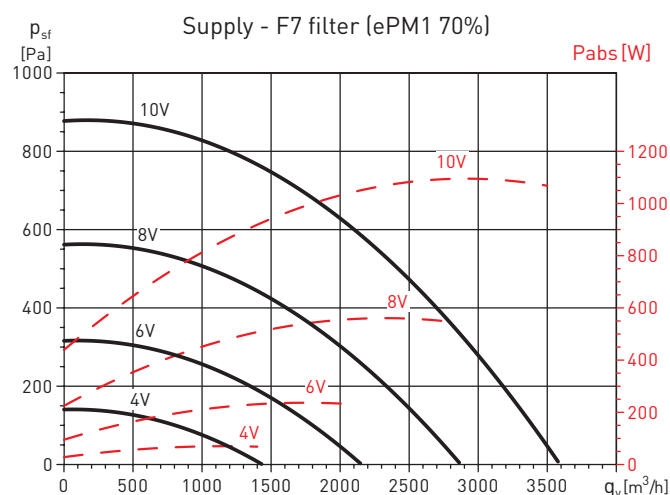
CADB-HE-D 27



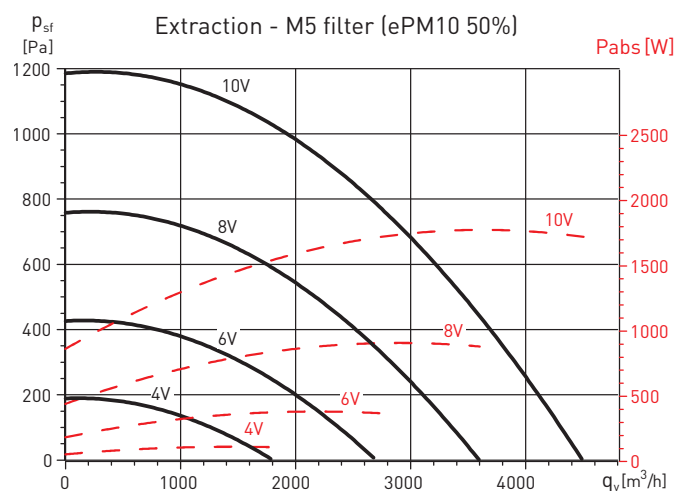
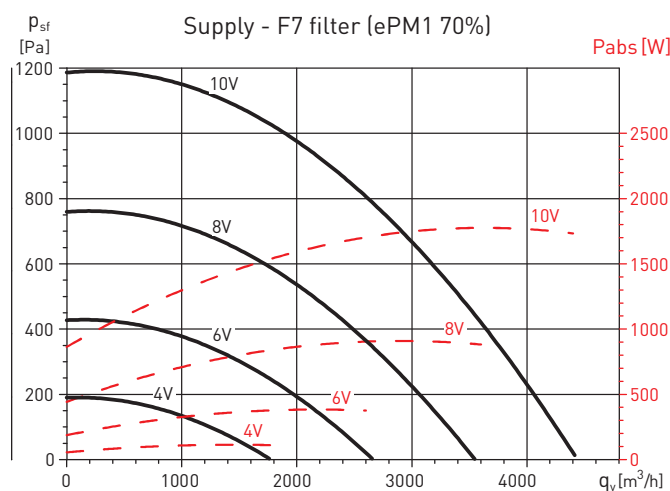
CHARACTERISTIC CURVES

- q_v : Flow rate (m^3/h).
- p_{sf} : Static pressure in Pa and mmcd.
- P_{abs} = Absorbed power at maximum speed (W).
- Normal dry air at 20°C and 760 mm.c.d.Hg.
- Tests performed according to ISO 5801 and AMCA 210-99.
- Absorbed power corresponding to a single circuit.

CADB-HE-D 33



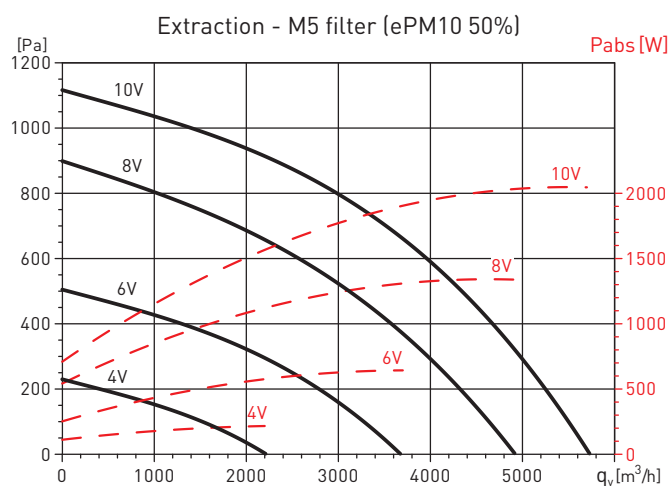
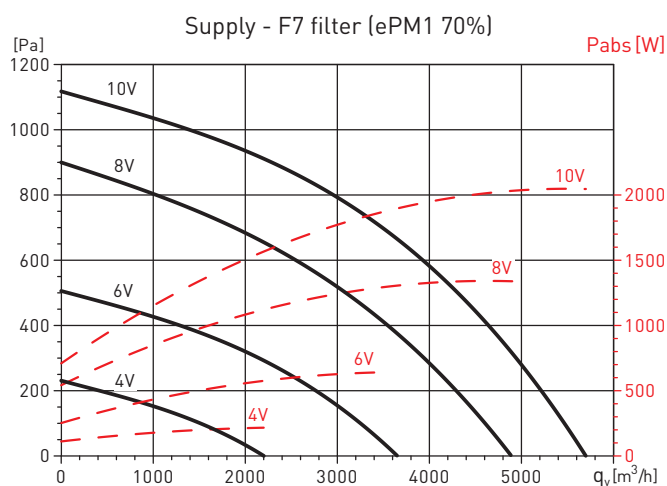
CADT-HE-D 33 HP



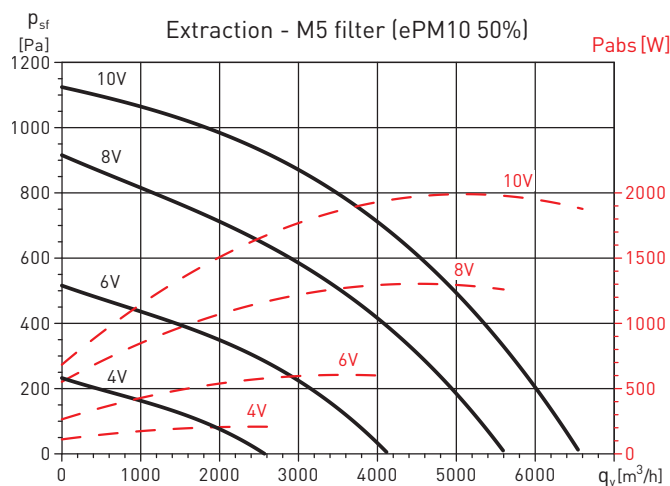
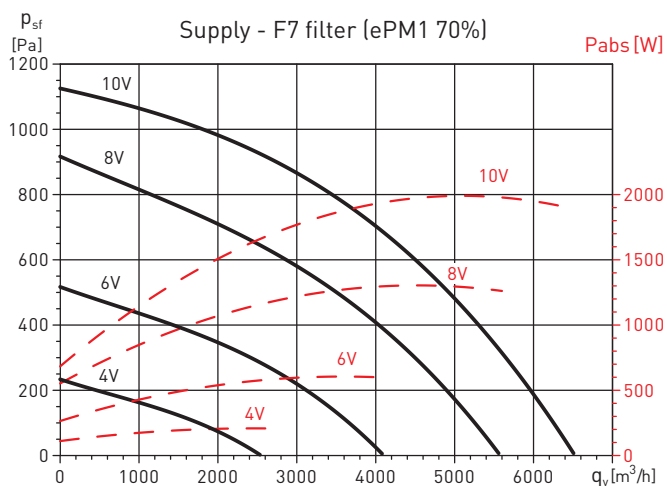
CHARACTERISTIC CURVES

- q_v : Flow rate (m^3/h).
- p_{sf} : Static pressure in Pa and mmcda.
- P_{abs} = Absorbed power at maximum speed (W).
- Normal dry air at 20°C and 760 mm.c.d.Hg.
- Tests performed according to ISO 5801 and AMCA 210-99.
- Absorbed power corresponding to a single circuit.

CADT-HE-D 45



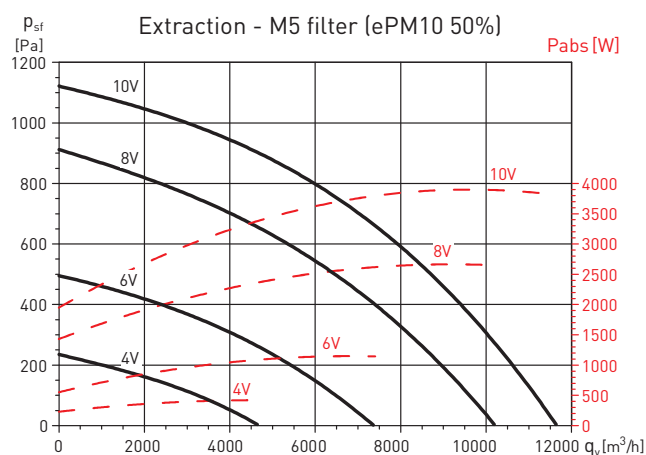
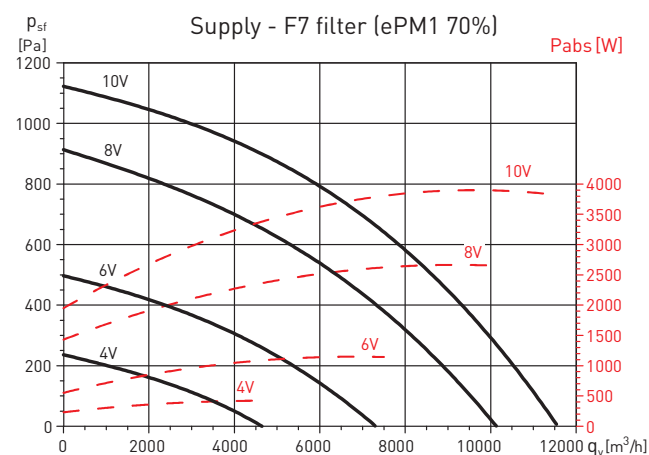
CADT-HE-D 60



CHARACTERISTIC CURVES

- q_v : Flow rate (m^3/h).
- p_{sf} : Static pressure in Pa and mmcd.
- P_{abs} = Absorbed power at maximum speed (W).
- Normal dry air at 20°C and 760 mm.c.d.Hg.
- Tests performed according to ISO 5801 and AMCA 210-99.
- Absorbed power corresponding to a single circuit.

CADT-HE-D 100



HIGH-EFFICIENCY HEAT RECOVERY UNITS CONFIGURABLE FOR USE WITHOUT COILS

CADB/T-HE BASIC Series

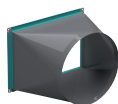


ACCESSORIES

For more information, see “recovery unit accessories” or “general accessories” sections.
Mounting accessories are supplied in unpainted galvanised sheet metal finish.

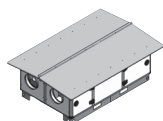


Heat recovery unit model	Ø (mm)	AFR-HE (Accessory and replacement filters for CADB/T-HE)			
		AFR-HE G4	AFR-HE M5	AFR-HE F7	AFR-HE F9
CADB-HE D 04	200	AFR-HE 200/04 G4	AFR-HE 200/04 M5	AFR-HE 200/04 F7	AFR-HE 200/04 F9
CADB-HE D 08	250	AFR-HE 250/08 G4	AFR-HE 250/08 M5	AFR-HE 250/08 F7	AFR-HE 250/08 F9
CADB-HE D 12	315	AFR-HE 315/12 G4	AFR-HE 315/12 M5	AFR-HE 315/12 F7	AFR-HE 315/12 F9
CADB-HE D 16	315	AFR-HE 315/16 G4	AFR-HE 315/16 M5	AFR-HE 315/16 F7	AFR-HE 315/16 F9
CADB-HE D 21	400	AFR-HE 400/21-27 G4	AFR-HE 400/21-27 M5	AFR-HE 400/21-27 F7	AFR-HE 400/21-27 F9
CADB-HE D 27	400	AFR-HE 400/21-27 G4	AFR-HE 400/21-27 M5	AFR-HE 400/21-27 F7	AFR-HE 400/21-27 F9
CADB/T-HE D 33 / HP	400	AFR-HE 400/33 G4	AFR-HE 400/33 M5	AFR-HE 400/33 F7	AFR-HE 400/33 F9
CADT-HE D 45	600x400	AFR-HE 450/40-45 G4	AFR-HE 450/40-45 M5	AFR-HE 450/40-45 F7	AFR-HE 450/40-45 F9
CADT-HE D 60	700x500	AFR-HE 500/54-60 G4	AFR-HE 500/54-60 M5	AFR-HE 500/54-60 F7	AFR-HE 500/54-60 F9
CADT-HE D 100	1100x610	AFR-HE-710/100 G4	AFR-HE-710/100 M5	AFR-HE-710/100 F7	AFR-HE-710/100 F9



Heat recovery unit model	PRRE Rectangular to circular adaptors	SIL Circular sound attenuators	ACOPEL F400 Circular flexible connector	APC - APR Inlet/outlet protection guards	
				Horizontal	Vertical
CADB-HE D 04	-	SIL-200	ACOPEL F400-200/160N	APC-200	
CADB-HE D 08	-	SIL-250	ACOPEL F400-250/160N	APC-250	
CADB-HE D 12	-	SIL-315	ACOPEL F400-315/160N	APC-315	
CADB-HE D 16	-	SIL-315	ACOPEL F400-315/160N	APC-315	
CADB-HE D 21	-	SIL-400	ACOPEL F400-400/160N	APC-400	
CADB-HE D 27	-	SIL-400	ACOPEL F400-400/160N	APC-400	
CADB-HE D 33	-	SIL-400	ACOPEL F400-400/160N	APC-400	
CADT-HE D 33 HP	PRRE 590x540/500 PRRE 1110x490/500	SIL-500	ACOPEL F400-500/160N	APR CADT-HE HP H	APR CADT-HE HP V MG
CADT-HE D 45	PRRE 600x400/500	SIL-500*	ACOPEL F400-500/160N*	APR CADT-HE 45/60 H MG	APR CADT-HE 45/60 V MG
CADT-HE D 60	PRRE 700x500/560	SIL-560*	ACOPEL F400-560/160N*	APR CADT-HE 45/60 H MG	APR CADT-HE 45/60 V MG
CADT-HE D 100	PRRE 1100x610/710	SIL-710*	ACOPEL F400-710/180N*	-	APR CADT-HE 100 MG

* In order to use the circular accessories, it is necessary to install the appropriate PRRE adapter.



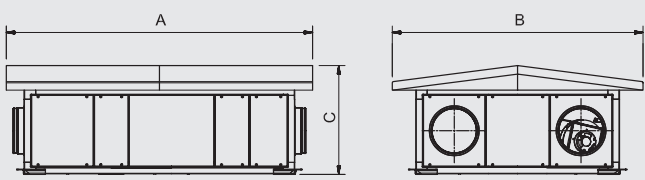
Heat recovery unit model	TPP-HE Weatherproof roof accessories	
	Horizontal	Vertical
CADB-HE D 04	TPP-HE-H-04	TPP-HE-V-04 MG
CADB-HE D 08	TPP-HE-H-08	TPP-HE-V-08 MG
CADB-HE D 12	TPP-HE-H-12	TPP-HE-V-12 MG
CADB-HE D 16	TPP-HE-H-16	TPP-HE-V-16 MG
CADB-HE D 21	TPP-HE-H-21-27-33	TPP-HE-V-21-27 MG
CADB-HE D 27	TPP-HE-H-21-27-33	TPP-HE-V-21-27 MG
CADB/T-HE D 33 / HP	TPP-HE-H-21-27-33	TPP-HE-V-33 MG
CADT-HE D 45	TPP-HE-H-45 MG	TPP-HE-V-45 MG
CADT-HE D 60	TPP-HE-H-60 MG	TPP-HE-V-60 MG
CADT-HE D 100	-	TPP-HE-V-100 MG

MOUNTING ACCESSORIES

TPP-HE

Rain protection cowl

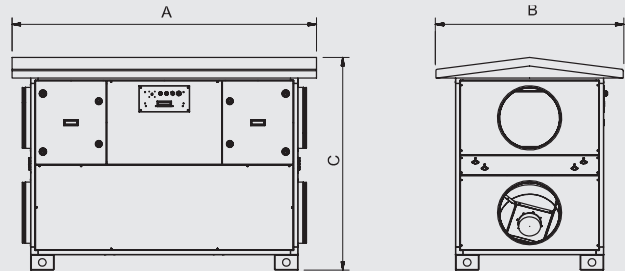
Rain protection cowls are supplied with a finish of galvanized sheet without painting.



Model	A	B	C	Weight* (kg)
04	1717	1123	514	30
08	1947	1273	577	35
12	1896	1413	589	40
16	2146	1603	631	50
21	2496	2003	766	70
27	2496	2003	766	70
33	2496	2003	866	70

CADB-HE 04 to 33 LH/RH

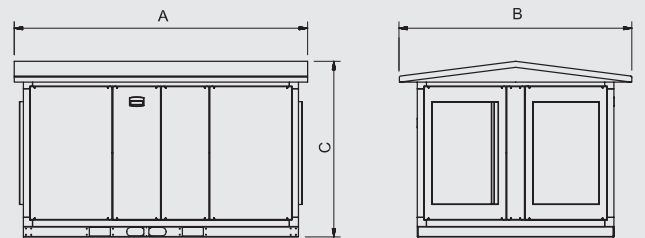
* Weight of the roof accessory



Model	A	B	C	Weight* (kg)
04	1322	903	1039	20
08	1478	973	1145	25
12	1522	1133	1160	30
16	1672	1133	1210	30
21	1947	1333	1427	40
27	1947	1333	1427	40
33	1947	1533	1445	45

CADB-HE 04 to 33 LV/RV

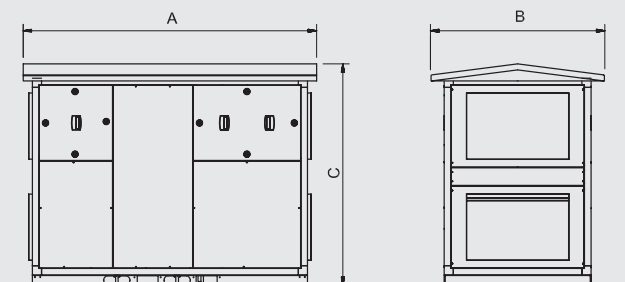
* Weight of the roof accessory



Model	A	B	C	Weight* (kg)
45	2296	1863	1404	60
60	2446	1913	1788	85

CADT-HE 45 and 60 LH/RH

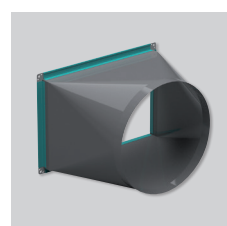
* Weight of the roof accessory



Model	A	B	C	Weight* (kg)
45	2296	1483	1750	50
60	2446	1863	1834	65
100	2446	2413	1883	85

CADT-HE 45 to 100 LV/RV

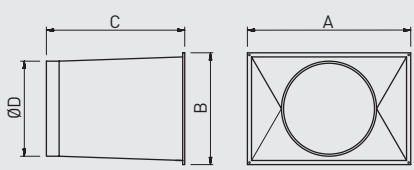
* Weight of the roof accessory



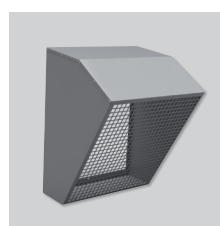
PRRE

From rectangular to circular adapter

Appropriate to apply circular accessories to inlet and outlet for the models CADT-HE 45 to 100.



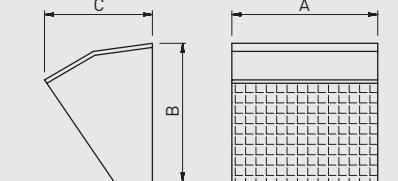
Model	A	B	C	ØD
PRRE 600x400/500	666	466	460	500
PRRE 700x500/560	766	566	460	560
PRRE 1100x610/710	1140	650	460	710
PRRE 590x540/500	656	606	460	500
PRRE 1110x490/500	1176	556	460	500



APR

Rectangular protective peaks

Specific accessory for models CADT-HE 45 to 100.



Model	A	B	C
APR CADT-HE 33HP H	590	540	556
APR CADT-HE 33 HP V MG	1110	490	556
APR CADT-HE 45/60 H MG	620	800	556
APR CADT-HE 45/60 V MG	800	620	556
APR CADT-HE 100 MG	1176	710	552

ELECTRICAL ACCESSORIES FOR THE CADB/T-HE BASIC



SC02-A 0/10V

Ambient CO₂ and temperature sensor without display.
Outlet: 0-10V.
Power: 24 VDC.



SC02-G 0/10V

CO₂ sensor for the duct.
Enables control of the ventilation in sections of duct according to the CO₂ concentration of the air circulating through it.
Outlet: 0-10V.
Power: 24 VDC.



TDP-S probe

For COP control. Only with Modbus pressure transmitters without a display

They are used to control the pressure in constant-pressure and continuous-flow ventilation systems. They allow the reading of pressure differentials at two points and convert it into an electrical signal suitable for the different types of control.

Accessories for fan control depending on the control mode

Heat Recovery model	Accessories for Variable Air Volume. VAV by CO ₂ level.		COP Only available via Modbus
	Ambience	Duct	
CADB/T-HE 04 to 100	SC02-A 0/10V	SC02-G 0/10V	TDP-S