



VERTICAL UNIT

Heat recovery unit with an aluminium heat exchanger offering up to 92% efficiency which provides a constant air change in the building. The casing is manufactured from a frameless construction with double skinned mineral wool insulated panels. All units are equipped with high efficient filters for good air quality. Plug fans with backward curved impeller and EC external rotor motor ensures low energy consumption. Free cooling is provided by 100% by-pass during summertime. The integral controls offer Plug & Play. Sensors as CO₂ or RH are also available as accessories to provide Demand Controlled Ventilation. The units are designed for indoor installation.

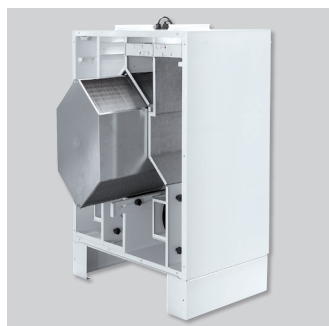
Vertical unit:

- Casing (outer and inner skin) coated in RAL 9003 (white).
- Panels 25mm thick.
- Supply and exhaust air filter ePM10 50% (M5).

PH models with built-in pre-heater for cold climates.

USER-FRIENDLY MAINTENANCE

VERTICAL UNIT



Slides facilitate fast changing and air tightness.



Easy access to filters and fans for changing and cleaning.



Specific applications



Multi dwelling blocks



Single dwellings



Heat recovery unit

REMOTE CONTROL

Included with the product



Remote control functions:

- Standby
- Speed selection (3 speeds)
- Manual bypass
- Filter alarm
- Remote control via cable

TOUCH REMOTE CONTROL TSP-A

as an accessory



Remote control functions:

- Standby
- **Time scheduler**
- Speed selection
- Manual bypass
- Filter alarm
- Remote control via cable



HORIZONTAL UNIT

Heat recovery unit with an aluminium heat exchanger offering up to 92% efficiency which provides a constant air change in the building. The casing is manufactured from a frameless construction with double skinned mineral wool insulated panels. All units are equipped with high efficient filters for good air quality. Plug fans with backward curved impeller and EC external rotor motor ensures low energy consumption. Free cooling is provided by 100% by-pass during summertime. The integral controls offer Plug & Play. Sensors as CO₂ or RH are also available as accessories to provide Demand Controlled Ventilation. The units are designed for indoor installation.

Horizontal unit (false ceiling):

- Casing from galvanized steel.
- Panels 30mm thick.
- Supply air filter ePM1 65% (F7) and exhaust air filter ePM10 50% (M5).
- Rectangular connection.

USER-FRIENDLY MAINTENANCE HORIZONTAL UNIT



Easy access to filters and fans for changing and cleaning.



Specific applications



Multi dwelling blocks



Single dwellings



Heat recovery unit

REMOTE CONTROL

Included with the product



Remote control functions:

- Standby
- Speed selection (3 speeds)
- Manual bypass
- Filter alarm
- Remote control via cable

TOUCH REMOTE CONTROL TSP-A

as an accessory



Remote control functions:

- Standby
- **Time scheduler**
- Speed selection
- Manual bypass
- Filter alarm
- Remote control via cable

TECHNICAL CHARACTERISTICS

Model	Airflow (m³/h)	Power supply	Fans		Max. Sound pressure level at 3m*			Weight (kg)
			Total motor power (W)	Maximum absorbed current (A)	Radiated	Inlet	Outlet	
Vertical installation								
CAD HE 325 EC V BASIC	480	1~ 230V, 50Hz	230	1,3	37	43	49	100
CAD HE 325 EC V BASIC PH	480	1~ 230V, 50Hz	230	1,3	37	43	49	100
CAD HE 450 EC V BASIC	540	1~ 230V, 50Hz	345	2,0	38	42	46	100
CAD HE 450 EC V BASIC PH	540	1~ 230V, 50Hz	345	2,0	38	42	46	100
CAD HE 575 EC V BASIC	680	1~ 230V, 50Hz	362	2,5	35	48	47	136
CAD HE 575 EC V BASIC PH	680	1~ 230V, 50Hz	362	2,5	35	48	47	136

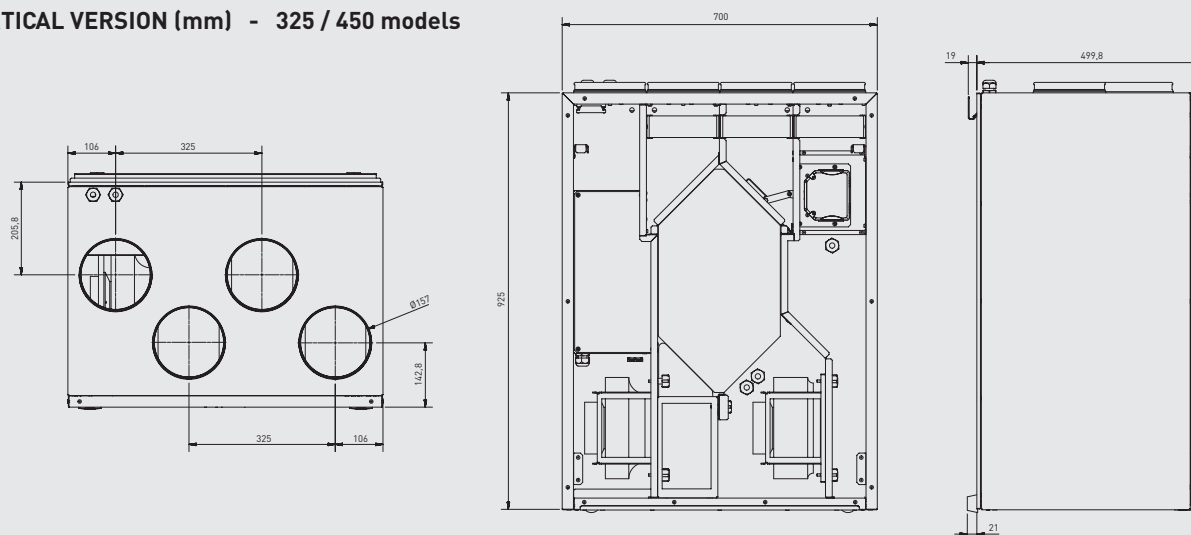
False ceiling installation

CAD HE 450 EC H BASIC	620	1~ 230V, 50Hz	252	1,8	30	38	55	90
CAD HE 450 EC H BASIC PH	620	1~ 230V, 50Hz	252	1,8	30	38	55	90

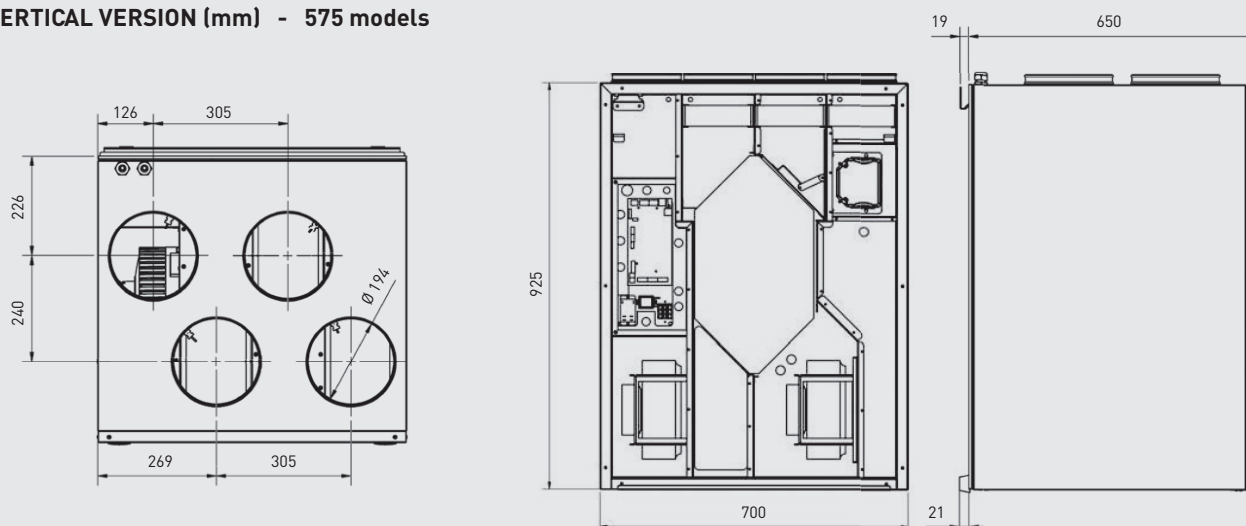
* Free field conditions.

DIMENSIONS

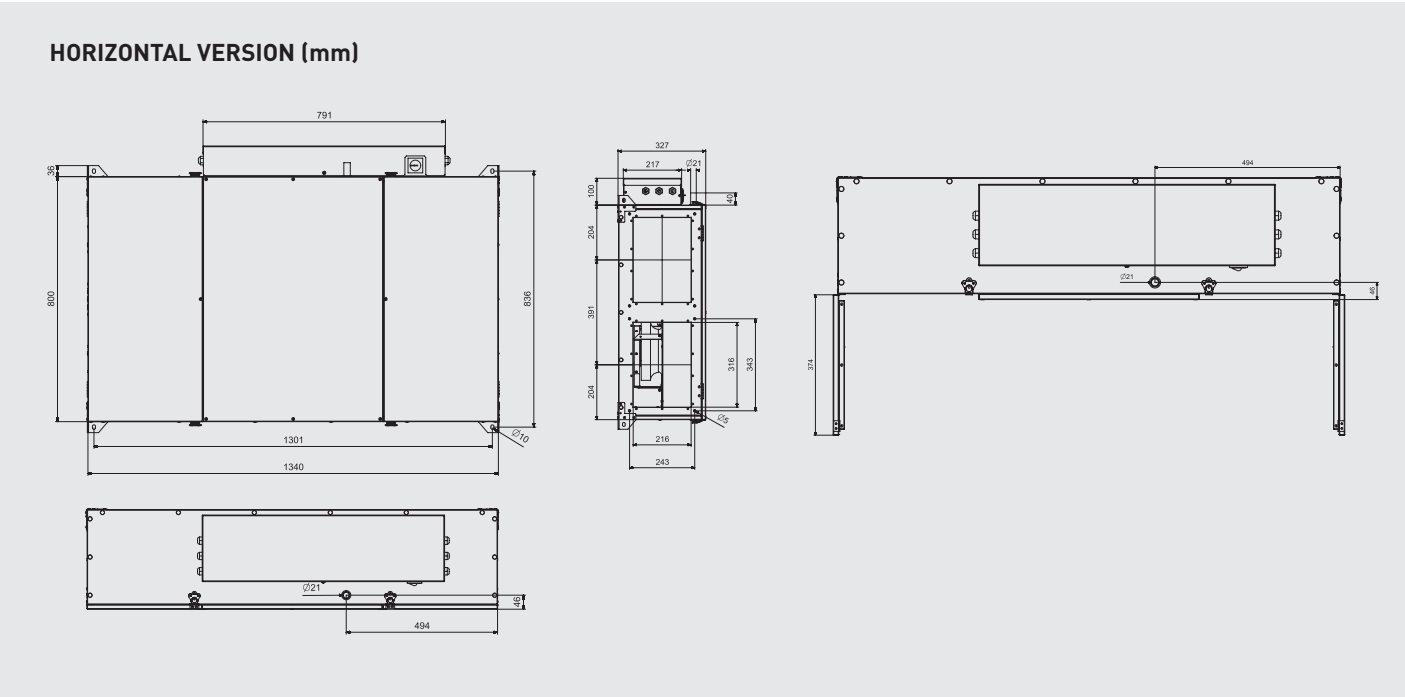
VERTICAL VERSION (mm) - 325 / 450 models



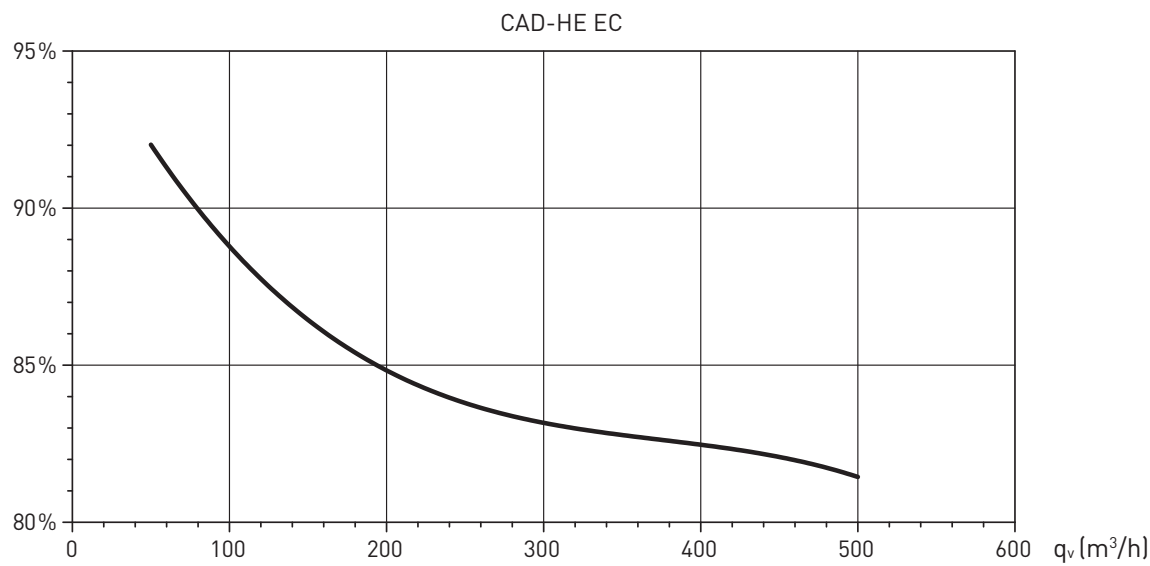
VERTICAL VERSION (mm) - 575 models



DIMENSIONS



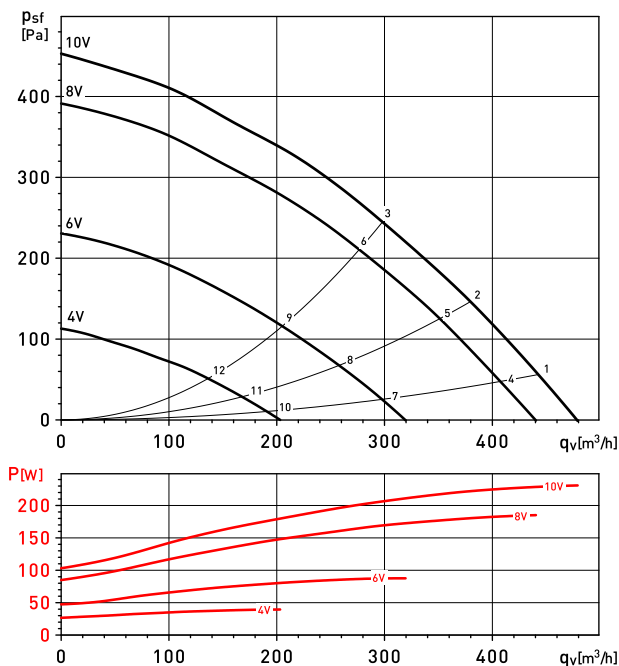
THERMAL EFFICIENCY



CHARACTERISTIC CURVE

- q_v : Air volume in m^3/h .
- p_{sf} : Static pressure in Pa.
- P : Input power in W.
- SFP: Specific fan power in $W/m^3/s$.
- Performance data in accordance with ISO 5801:1997.

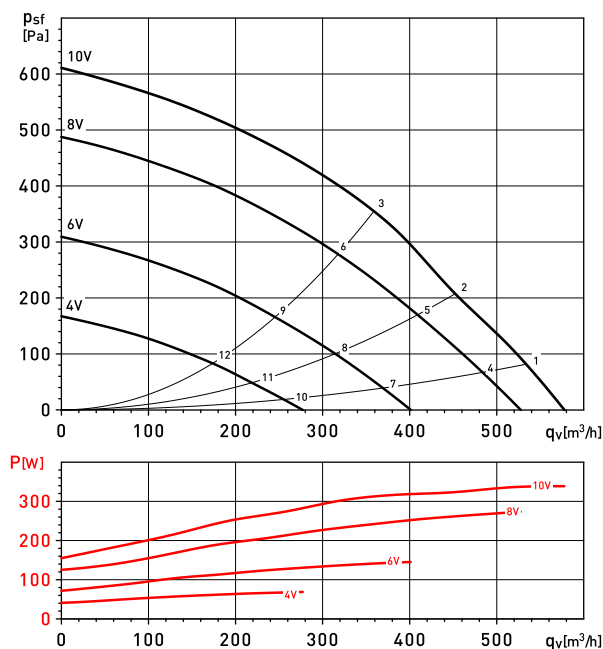
CAD HE 325 EC V BASIC/ CAD HE 325 EC V BASIC PH



CAD HE 325 EC V BASIC		63	125	250	500	1000	2000	4000	8000	LwA	LpA*
1	Radiated	44	40	57	57	57	60	50	36	64	43
	Inlet	42	44	57	63	61	64	52	36	69	49
	Outlet	45	45	56	46	43	43	38	31	58	37
2	Radiated	49	51	57	65	65	65	53	48	71	50
	Inlet	43	50	59	68	65	67	56	49	73	53
	Outlet	48	53	56	53	49	48	43	43	63	42
3	Radiated	48	50	55	61	62	61	52	41	67	46
	Inlet	37	44	52	60	61	63	54	40	67	47
	Outlet	42	48	52	47	45	43	40	34	58	38
4	Radiated	42	39	56	55	55	58	48	34	62	42
	Inlet	40	42	55	61	59	62	50	34	66	45
	Outlet	43	43	54	44	41	41	36	29	56	35
5	Radiated	47	49	55	63	63	63	51	46	68	48
	Inlet	41	48	57	66	63	65	54	47	70	50
	Outlet	45	51	54	50	47	46	40	41	58	37
6	Radiated	45	47	52	59	59	59	50	39	64	44
	Inlet	35	42	50	58	59	61	52	38	65	44
	Outlet	40	46	50	44	43	41	38	32	53	33
7	Radiated	37	34	51	50	50	53	43	29	57	37
	Inlet	35	37	50	56	54	57	45	30	61	41
	Outlet	38	38	49	39	36	36	31	24	51	30
8	Radiated	42	44	50	58	58	58	46	40	63	43
	Inlet	36	43	52	61	59	60	49	42	65	45
	Outlet	41	46	49	46	42	41	36	36	53	33
9	Radiated	40	42	47	54	54	54	45	34	60	39
	Inlet	30	36	45	53	53	55	46	33	59	39
	Outlet	35	41	45	39	37	36	33	27	48	28
10	Radiated	30	27	44	43	44	46	36	23	51	30
	Inlet	28	30	43	50	47	50	38	23	54	34
	Outlet	32	32	43	32	29	29	24	17	44	23
11	Radiated	36	37	43	52	51	51	39	34	56	36
	Inlet	29	36	46	55	52	54	43	35	59	39
	Outlet	34	39	42	39	35	34	29	29	46	26
12	Radiated	34	36	41	47	48	47	38	27	53	32
	Inlet	23	30	38	47	47	49	40	27	53	33
	Outlet	29	34	38	33	31	30	26	21	42	21

* Free field conditions.

CAD HE 450 EC V BASIC/ CAD HE 450 EC V BASIC PH



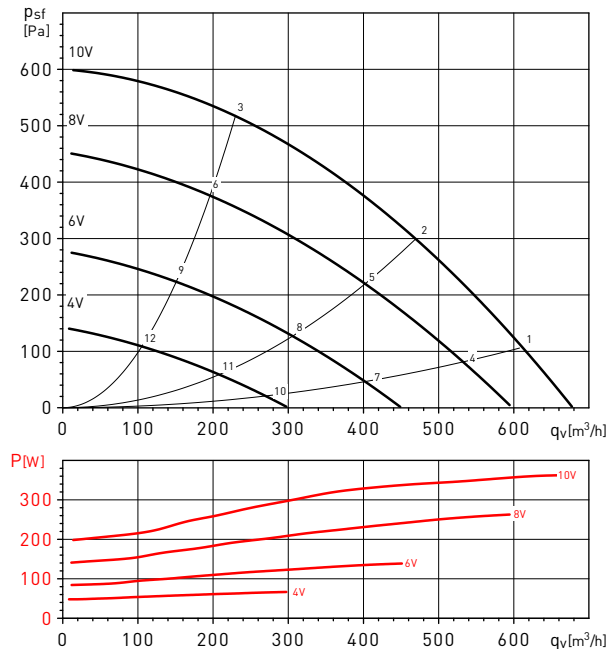
CAD HE 450 EC V BASIC		63	125	250	500	1000	2000	4000	8000	LwA	LpA*
1	Radiated	42	49	54	52	53	49	37	31	59	38
	Inlet	40	44	54	57	57	55	46	35	62	42
	Outlet	37	45	55	63	61	60	48	34	67	46
2	Radiated	42	48	53	46	43	40	34	29	55	35
	Inlet	44	47	55	59	58	56	46	35	64	43
	Outlet	37	45	55	62	60	59	47	34	66	45
3	Radiated	41	48	54	46	43	39	34	29	56	35
	Inlet	45	49	56	59	58	56	46	36	64	43
	Outlet	36	44	55	62	59	59	47	35	66	45
4	Radiated	40	48	54	49	51	47	35	29	58	37
	Inlet	37	42	52	55	55	53	44	32	60	40
	Outlet	35	43	55	61	59	58	46	32	65	44
5	Radiated	41	47	51	44	41	39	33	27	54	33
	Inlet	42	45	54	56	56	54	44	32	61	41
	Outlet	34	43	55	60	58	57	45	32	64	43
6	Radiated	39	47	52	43	40	37	32	26	54	34
	Inlet	41	45	54	55	55	53	44	32	61	40
	Outlet	34	42	55	59	57	56	45	32	63	43
7	Radiated	35	45	49	43	45	41	31	24	53	32
	Inlet	30	38	47	48	49	47	39	26	54	34
	Outlet	31	39	47	55	52	51	40	26	58	38
8	Radiated	34	44	48	37	35	32	29	24	50	30
	Inlet	35	41	48	48	50	48	38	26	55	34
	Outlet	28	38	46	53	51	50	40	26	57	36
9	Radiated	31	44	47	35	34	31	28	23	49	29
	Inlet	35	41	47	48	49	47	38	27	54	34
	Outlet	28	38	46	52	51	50	40	27	56	36
10	Radiated	28	40	41	34	37	34	26	23	45	25
	Inlet	25	34	40	41	42	41	32	23	47	27
	Outlet	27	34	41	45	43	43	34	23	50	29
11	Radiated	26	39	40	29	28	26	25	22	43	23
	Inlet	30	35	39	40	42	40	32	23	47	26
	Outlet	22	34	40	44	43	42	34	23	49	28
12	Radiated	27	39	38	29	28	26	25	22	42	22
	Inlet	27	36	39	40	41	40	32	23	47	26
	Outlet	23	34	39	43	42	42	34	23	48	28

* Free field conditions.

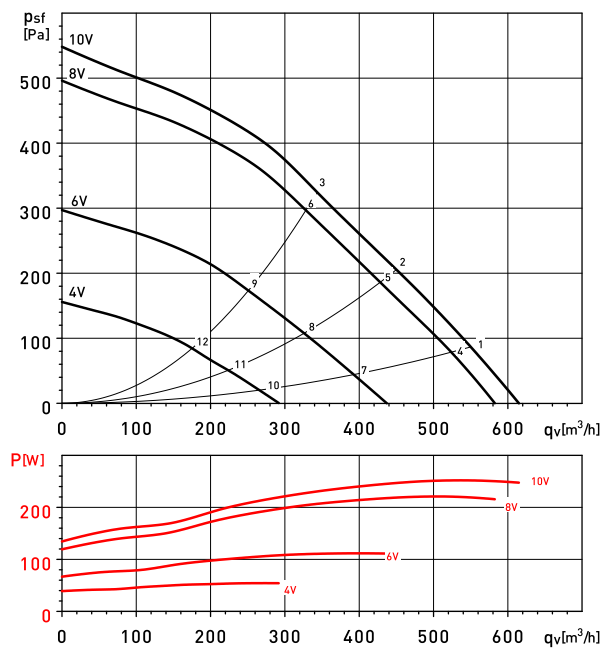
CHARACTERISTIC CURVE

- q_v : Air volume in m^3/h .
- p_{sf} : Static pressure in Pa.
- P: Input power in W.
- SFP: Specific fan power in $W/m^3/s$.
- Performance data in accordance with ISO 5801:1997.

CAD HE 575 EC V BASIC/ CAD HE 575 EC V BASIC PH



CAD HE 450 EC H BASIC/CAD HE 450 EC H BASIC PH



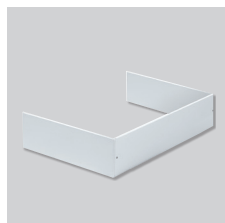
CAD HE 575 EC V BASIC		63	125	250	500	1000	2000	4000	8000	LwA	LpA*
1	Radiated	43	48	51	48	47	44	40	30	56	35
	Inlet	37	49	58	63	64	62	46	28	69	48
	Outlet	35	50	57	62	64	59	47	32	67	47
2	Radiated	42	49	53	48	48	44	39	30	56	36
	Inlet	35	48	58	62	63	60	44	27	67	47
	Outlet	35	50	58	62	63	59	46	32	67	47
3	Radiated	44	50	54	49	51	47	43	35	58	38
	Inlet	37	49	58	63	63	59	45	28	68	47
	Outlet	38	51	60	63	64	59	47	33	68	48
4	Radiated	41	47	50	45	45	42	38	28	54	34
	Inlet	35	47	56	61	62	59	43	26	66	46
	Outlet	33	49	57	61	62	57	45	30	66	45
5	Radiated	40	47	50	44	45	40	36	27	54	33
	Inlet	34	46	55	59	61	57	42	25	65	44
	Outlet	38	49	58	60	62	57	44	30	66	45
6	Radiated	41	48	51	45	47	42	39	31	55	34
	Inlet	35	47	55	60	60	56	42	25	64	44
	Outlet	35	49	58	61	62	57	44	30	66	46
7	Radiated	36	43	46	39	39	35	30	24	49	29
	Inlet	32	43	51	54	55	51	35	23	59	39
	Outlet	29	44	51	54	55	50	36	24	59	39
8	Radiated	36	44	45	38	39	34	29	23	49	29
	Inlet	29	42	50	53	54	49	34	23	58	37
	Outlet	33	44	51	54	55	49	36	24	59	39
9	Radiated	37	45	44	39	40	35	32	26	50	29
	Inlet	30	42	49	53	53	48	34	23	57	37
	Outlet	30	45	52	54	55	50	36	24	59	39
10	Radiated	30	38	36	31	30	26	24	23	42	21
	Inlet	27	39	43	45	45	40	26	23	50	30
	Outlet	26	39	43	45	45	39	26	23	50	30
11	Radiated	31	40	35	31	30	25	24	23	42	22
	Inlet	25	39	41	44	43	38	25	23	49	28
	Outlet	23	39	43	45	45	39	26	23	50	29
12	Radiated	32	40	35	31	31	27	25	23	43	22
	Inlet	24	39	40	44	43	38	26	23	48	28
	Outlet	25	39	43	45	45	39	26	23	50	30

* Free field conditions.

CAD HE 450 EC H BASIC		63	125	250	500	1000	2000	4000	8000	LwA	LpA*
1	Radiated	31	40	38	44	45	41	32	22	49	29
	Inlet	36	49	49	48	53	47	35	26	57	36
	Outlet	40	51	68	68	69	68	61	52	75	54
2	Radiated	28	34	37	43	43	39	30	21	48	27
	Inlet	33	43	48	48	51	45	33	25	55	34
	Outlet	40	51	68	68	69	68	61	52	75	54
3	Radiated	27	31	37	44	43	39	29	19	48	27
	Inlet	32	40	49	48	51	45	33	24	55	35
	Outlet	39	50	69	69	70	70	63	55	76	55
4	Radiated	31	40	38	43	44	40	32	25	49	28
	Inlet	37	49	49	48	52	46	35	28	56	36
	Outlet	42	52	68	67	68	67	59	49	74	53
5	Radiated	28	35	36	43	42	37	30	23	47	26
	Inlet	34	44	47	47	50	44	34	27	54	34
	Outlet	41	52	68	67	68	67	59	50	74	53
6	Radiated	27	32	37	43	42	37	29	21	47	27
	Inlet	32	41	48	48	50	43	33	25	54	34
	Outlet	41	51	68	68	69	68	61	52	75	54
7	Radiated	28	36	34	40	40	36	28	22	45	24
	Inlet	34	45	44	44	47	42	31	25	52	31
	Outlet	39	49	63	63	63	63	54	44	69	49
8	Radiated	26	32	32	39	38	33	27	22	43	23
	Inlet	31	40	43	43	46	39	30	24	50	29
	Outlet	38	48	63	63	63	62	54	44	69	48
9	Radiated	24	30	32	39	37	32	27	22	43	22
	Inlet	30	38	43	43	45	38	29	24	49	29
	Outlet	38	48	64	63	63	62	54	44	69	48
10	Radiated	26	31	28	35	34	30	24	23	40	19
	Inlet	31	39	38	38	41	35	26	24	46	25
	Outlet	37	46	58	56	57	56	46	35	63	42
11	Radiated	23	29	27	34	32	27	24	23	38	17
	Inlet	29	37	36	37	39	32	25	23	44	23
	Outlet	36	45	58	55	55	54	45	34	62	42
12	Radiated	21	27	26	33	30	25	23	23	37	16
	Inlet	26	35	35	37	37	31	25	23	57	36
	Outlet	36	45	58	55	55	54	44	33	75	54

* Free field conditions.

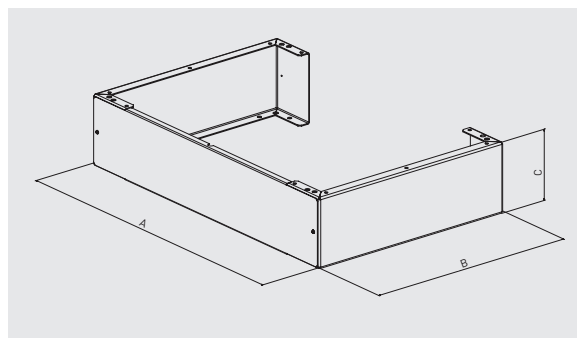
MOUNTING ACCESSORIES - VERTICAL VERSION



SUPPORT BASE

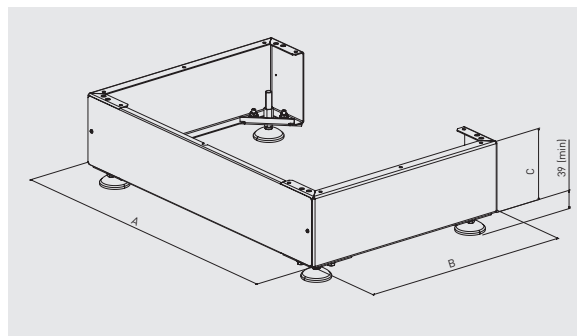
Support base designed for floor installation.

		A (mm)	B (mm)	C (mm)
CAD HE 325 EC V	SUP 450/150	700	465	150
CAD HE 450 EC V				
CAD HE 575 EC V	SUP 575/150	700	615	150



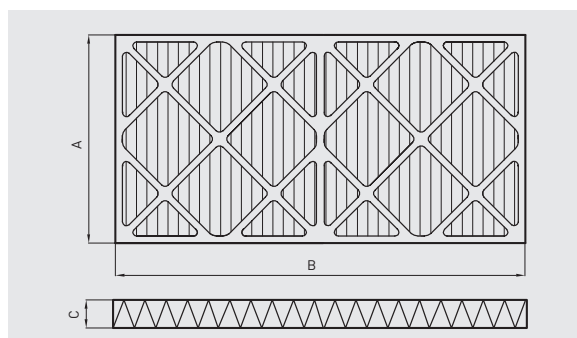
KIT 4 AF

Adjustable feet. Accessory designed for the support base that allows the leveling of the unit.



FILTERS ePM10 50% (M5) and ePM1 65% (F7)

		A (mm)	B (mm)	C (mm)
CAD HE 325 EC V	AFR-325/450V-ePM10 50% (M5)	150	410	48
	AFR-325/450V-ePM1 65% (F7)			
CAD HE 450 EC V	AFR-325/450V-ePM10 50% (M5)	150	410	48
	AFR-325/450V-ePM1 65% (F7)			
CAD HE 575 EC V	AFR-575V-ePM10 50% (M5)	150	560	48
	AFR-575V-ePM1 65% (F7)			

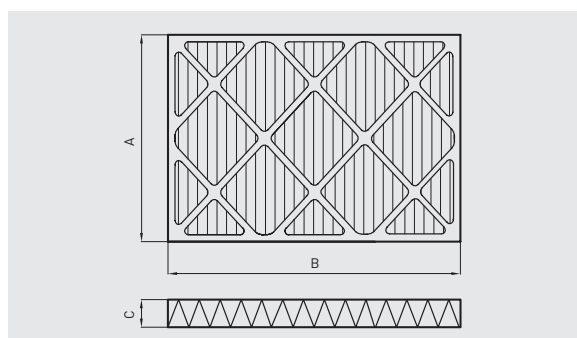


MOUNTING ACCESSORIES - HORIZONTAL VERSION



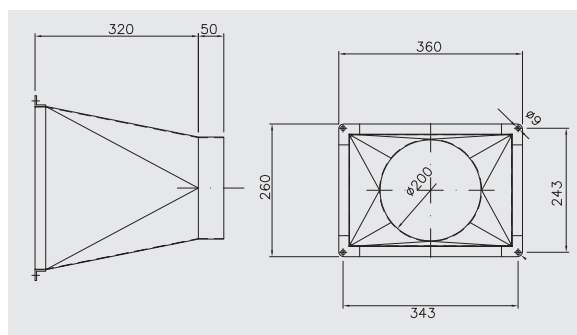
FILTERS ePM10 50% (M5) and ePM1 65% (F7)

		A (mm)	B (mm)	C (mm)
CAD HE 450 EC H	AFR-450H-ePM10 50% (M5)	260	350	48
	AFR-450H-ePM1 65% (F7)			



STRT W316xH216/D200mm

Square to round duct transition



ACCESSORIES- VERTICAL AND HORIZONTAL VERSIONS



TOUCH REMOTE CONTROL TSP-A

Remote control functions:

- Standby
- **Time scheduler**
- Speed selection
- Manual bypass
- Filter alarm
- Remote control via cable