



# Delta

Ceiling Mount

Energy Recovery Ventilator (ERV)

Fresh Air Supply Fan With HEPA Filter

Perfectly Green, Perfectly Quiet

[www.deltaelectronicsindia.com](http://www.deltaelectronicsindia.com)



# DC Motor Energy Recovery Ventilator with HEPA filter



## VEB150ATH

Suitable Room Size:  $\leq 55$  sq. m

## VEB350ATH

Suitable Room Size:  $\leq 130$  sq. m

## VEB500ATH

Suitable Room Size:  $\leq 185$  sq. m

## VEB250ATH

Suitable Room Size:  $\leq 95$  sq. m

High Efficiency DC Motor

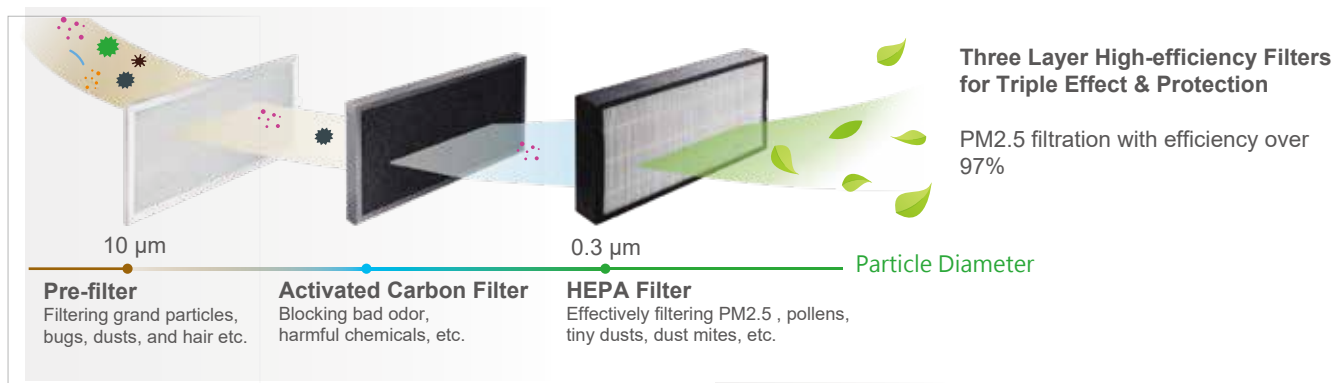
Multiple High Efficiency Filters

Thinning Case for Easy Installation

Constant Airflow Technology

Energy-saving and Quiet

Three Years Warranty



### High Efficiency DC Brushless Motor

Adopting brushless DC motor enormously decreases power consumption and maintains a longer life, compared with AC motor. Energy can be saved up to 60% - all day operation without wasting energy.



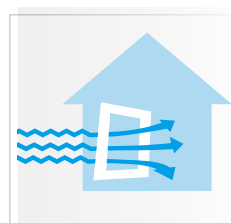
### Energy recovery core

Adjust humidity & temperature, to save more energy while working with HVAC system.



### Thinning case Two-sided installation

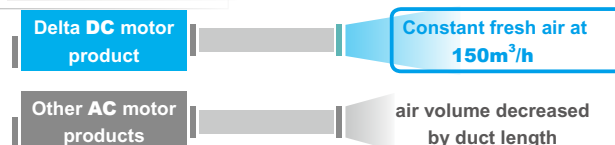
- ▲ Saving more space to decorate.
- ▲ Installing at both sides, adapting to different configuration.
- ▲ A access door with quick hinge is easy to maintenance.



### Constant Fresh Air Intake

Even through the filters and accumulated dusts, constant air volume can be provided in the air outlet within our designed duct length

\*Applicable models:  
VEB150ATH/VEB250ATH/VEB350ATH



\*compared with AC motor models at 150m<sup>3</sup>/h



### Selection of Control Panels Easy to Monitor

- ▲ Sensing indoor PM2.5, CO<sub>2</sub>, temperature and humidity.
- ▲ Smart control auto sensing and control good indoor air quality.
- ▲ Schedule setting: 7 days and 4 periods a day.



### RS485 interface

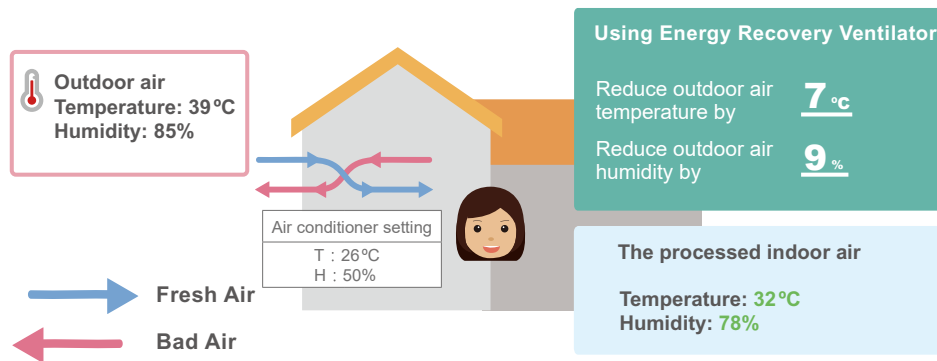
- ▲ MODBUS RTU protocol
- ▲ System integration & control
- ▲ Multiple ERVs control

# High-quality fresh air for your home

## Whole-house Fresh Air

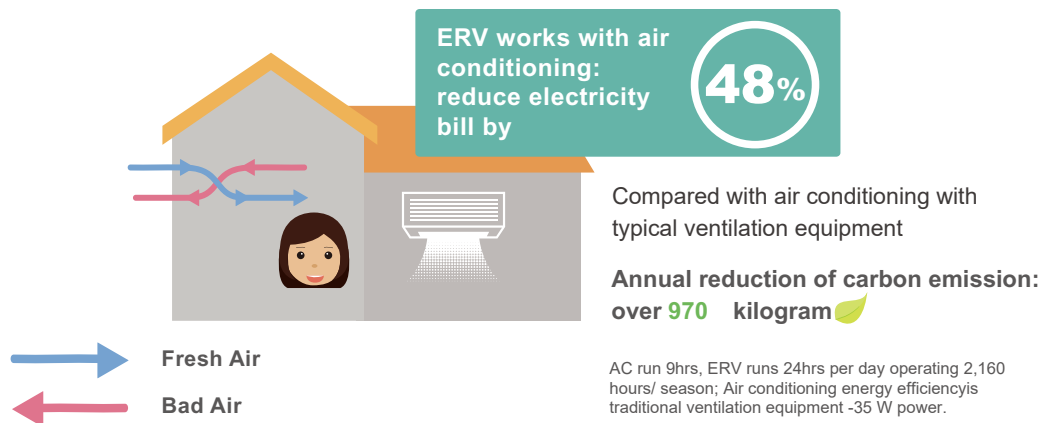
Delta energy recovery ventilator (ERV) intakes the outdoor fresh air, filters and purifies the air efficiently before delivering air into the indoor space. Besides that, the system can exhaust the indoor stale air to the outdoor environment at the same time, achieving the whole house ventilation. Users can obtain high-quality fresh air, even when the whole room is enclosed and airtight.

By case: VEB250ATH model at 250m<sup>3</sup>/h air flow



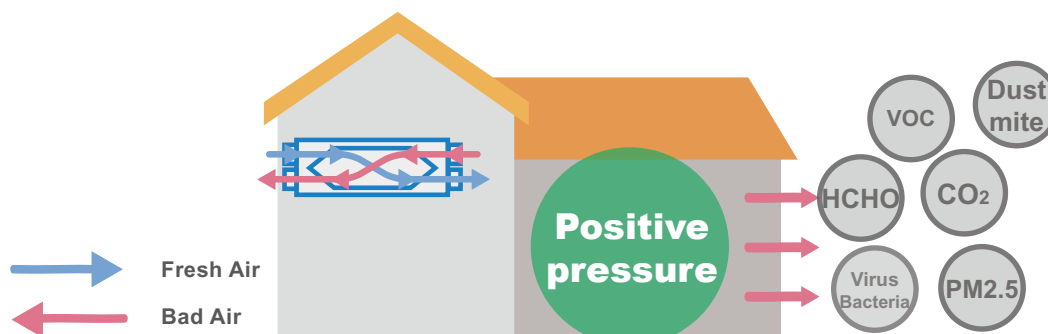
## Energy Savings with 24 hours Non-stop Operation

ERV can exchange heat & moisture of the indoor and outdoor air to reduce the loading of air conditioning, achieving comfy living environment and more energy savings.



## Positive Pressure Design - Exhaust Indoor Polluted Air

The design can enable indoor positive-pressure environment and squeeze indoor polluted air to the outdoor, preventing outdoor unfiltered polluted air from entering indoor space.



# Total home ventilation with air exchange unit

## Specifications

Model	Mounting Size	Weight	Power Rating	Power Consumption	Work Speed	Air Flow	External Static Pressure	Noise	Enthalpy Recovery Efficiency		Note
									Cooling	Heating	
Part No.	mm	kg	Vac/Hz	Watt	rpm	m³/h	Pa	dB-A	%		
VEB150ATH	564 x 1022	28	220/50	17	1075	80	25	22	68	76	Low
				27	1330	110	40	27	67	75	Middle
				40	1630	150	70	36	64	74	High
VEB250ATH	564 x 1022	28		30	1360	95	60	26	67	75	Low
				50	1800	145	95	35	66	74	Middle
				98	2270	250	125	37	62	73	High
VEB350ATH	743 x 1114	42		93	1680	250	108	37	65	72	Low
				142	1950	300	150	38	63	72	Middle
				168	2050	350	150	39	60	71	High
VEB500ATH	1055 x 1005	51		60	1090	260	55	33	59	63	Low
				120	1440	390	75	36	57	63	Middle
				180	1680	500	90	39	55	61	High

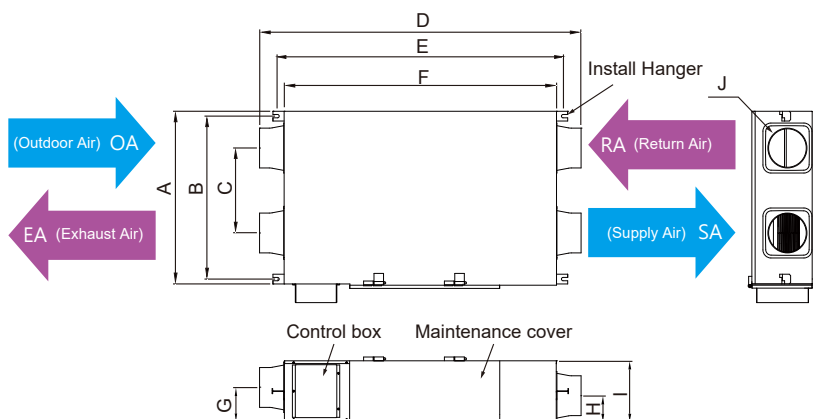
- Noise is measured with air duct in semi-anechoic chamber, 1.5 meter distance from the housing.
- The test result of the air flow is central value with tolerance range of  $\pm 10\%$ .

- All readings are typical value at rate voltage.
- Specifications are subject to change without notice.

## Dimension

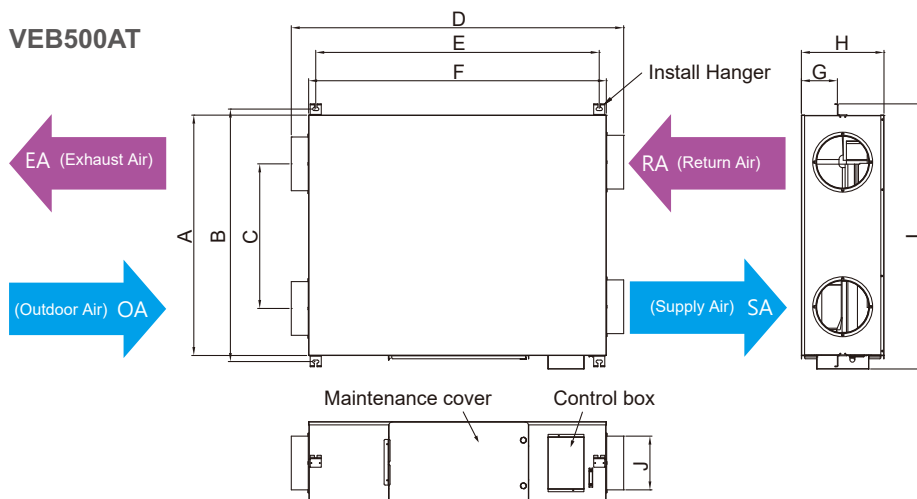
### VEB150AT/VEB250AT /VEB350AT

Unit:mm



Item	VEB150ATH VEB250ATH	VEB350ATH
A	620	800
B	564	743
C	280	360
D	1088	1230
E	1022	1114
F	980	1055
G	122	150
H	106	103
I	218	253
J	Ø145	Ø145

### VEB500AT

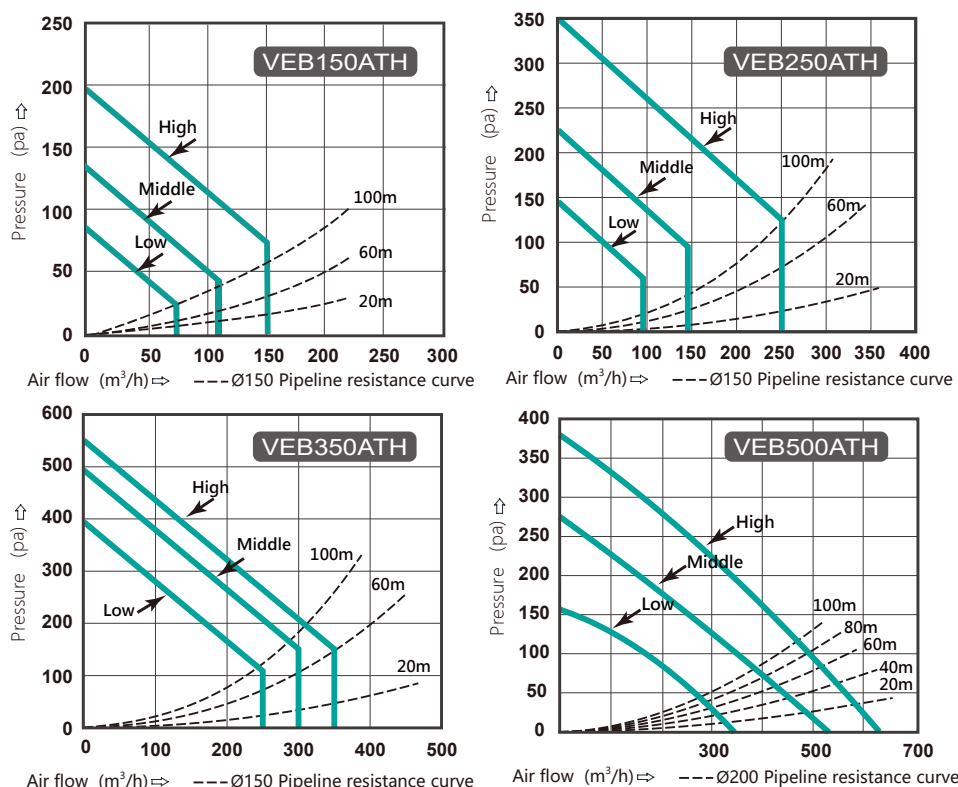


Item	VEB500ATH
A	998
B	1055
C	728
D	1235
E	1005
F	1065
G	30
H	312
I	1122
J	Ø197



# Delta Fresh Air Systems Bring Nature to Your Home

## Performance Curve

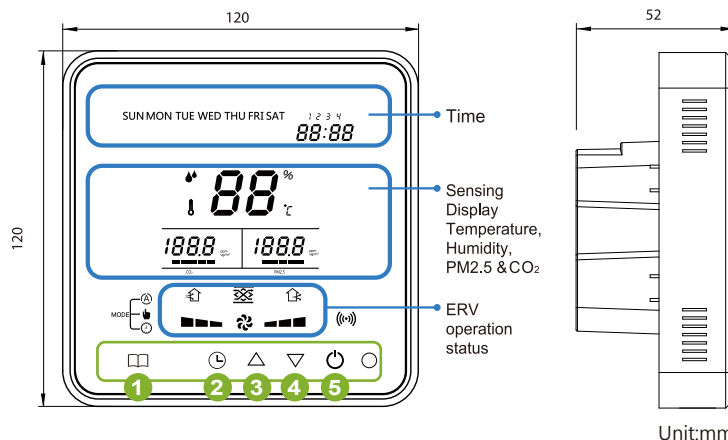


## Controller

### VFRU-ERVT-02SS (Optional)



- 1 switch working mode
- 2 set clock and timing parameters
- 3 parameter reduce
- 4 parameter increase
- 5 power on/off



## Accessory List

Model	Item	Part No.
VEB150ATH VEB250ATH	Pre-filter	VFRU-ERV-01PF
	Activated Carbon	VFRU-ERV-02AF
	HEPA	VFRU-ERV-03HF
	Exchanger core	VFRU-ERV-01EX
VEB350ATH	Pre-filter	VFRU-ERV-04PF
	Activated Carbon	VFRU-ERV-05AF
	HEPA	VFRU-ERV-06HF
	Exchanger core	VFRU-ERV-02EX
VEB500ATH	Pre-filter	VFRU-ERV-07PF
	Activated Carbon	VFRU-ERV-08AF
	HEPA	VFRU-ERV-09HF
	Exchanger core	VFRU-ERV-03EX

# Fresh Air Supply Fan With HEPA Filter



High Efficiency DC Motor

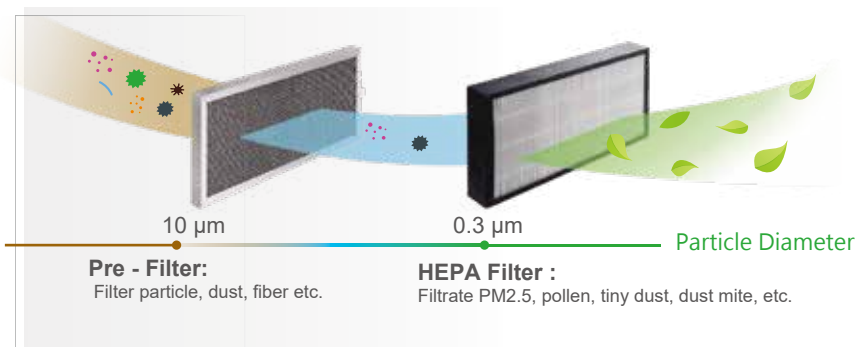
Double High Efficiency Filters

Easy Installation

Constant Airflow Technology

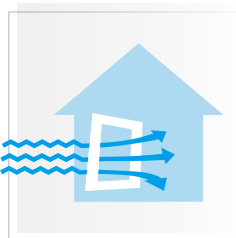
Energy-saving and Quiet

Three Years Warranty



**Two-layer High-efficiency Filters, Double Protection**

PM2.5 filtration with efficiency over 99.6%



## Constant Fresh Air Intake

Even through the filters and accumulated dusts, constant air flow can be provided in the vent outlet within our designed duct length

Delta DC motor product

Constant fresh air at 150m<sup>3</sup>/h

Other AC motor products

air volume decreased by duct length

\*compared with AC motor models at 150m<sup>3</sup>/h



## High Efficiency DC Brushless Motor

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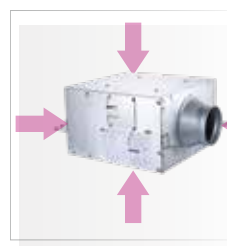
## Good for interior design

It only needs small air grilles, and keeps your home clean.



## Perfectly Quiet for a Better Living

Low noise design at high ventilation rate for whole-house fresh air.



## Slim Size - Save You More Space

Low-profile installation – blend in with interior design.

# Delta Fresh Air Systems Bring Nature to Your Home

## Specifications

Model	Mounting Size	Duct Size	Weight	Power Rating	Power Consumption	Work Speed	Maximum Air Flow	Maximum Air Pressure	Noise	PM2.5 Filtration Efficiency	Note
Part No.	mm	mm	kg	Vac/Hz	Watt	rpm	m³ /h	Pa	dB-A	%	
VDB150CXTH-F	401 x 316	100	8	220/50	Max. 40	1754	Max. 250	Max. 180	Max. 30	>=97	RS485
					8	995	120	110	21		Low
					14	1250	150	180	23		High
VDB400GXTH-F	446 x 316	150	10		Max. 62	Max. 1360	Max. 450	Max. 300	Max. 45		RS485
					12	723	200	150	23		ECO mode_Low
					25	996	300	300	28		Low
					55	1280	400		32		High

\* The max. air flow is measured in free air; max air pressure is measured at zero air flow.

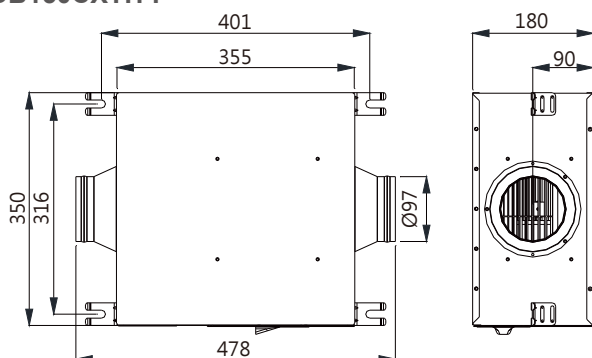
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\* All readings are typical values at rated voltage.

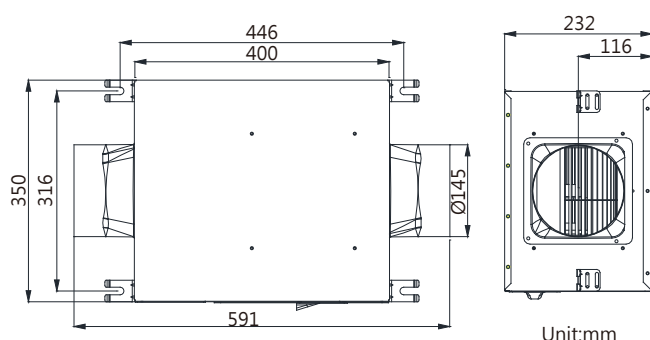
\* Specifications are subject to change without notice.

## Dimension

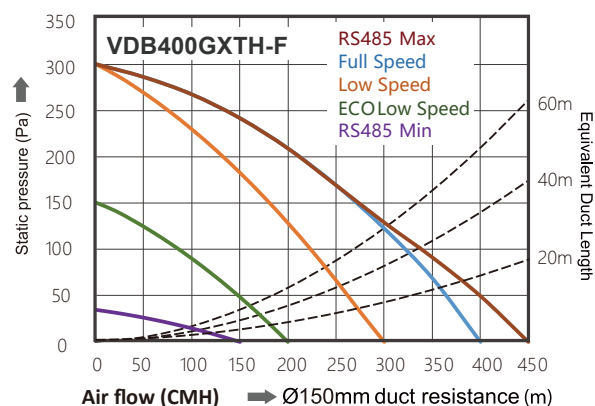
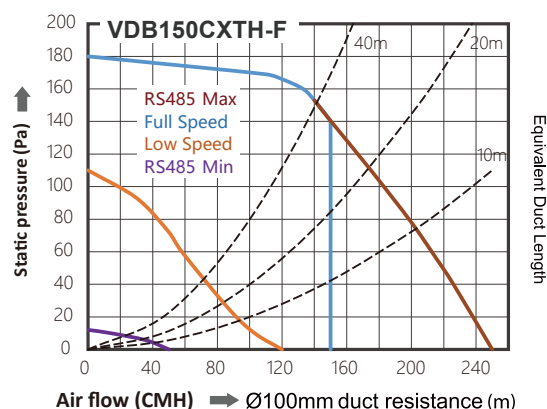
### VDB150CXTH-F



### VDB400GXTH-F



## Performance Curve



## Accessory List

MODEL	Name	Part No.	Qty
VDB150CXTH-F	Pre-filter	VFRU-36-01PF	1
	HEPA Filter	VFRU-36-02HF	1

MODEL	Name	Part No.	Qty
VDB400GXTH-F	Pre-filter	VFRU-40-01PF	1
	HEPA Filter	VFRU-40-02HF	1



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