

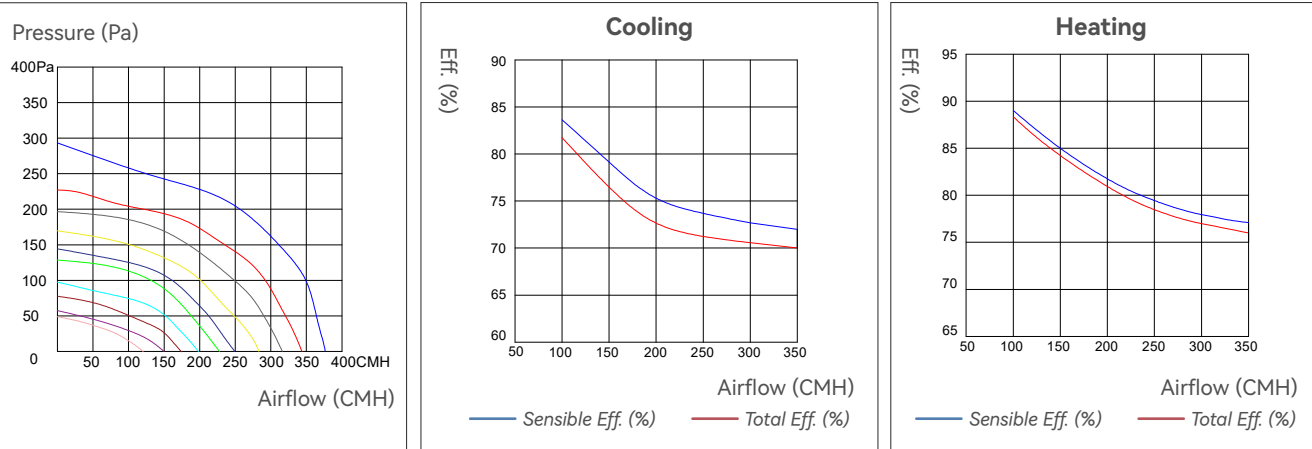
TECHNICAL PARAMETERS

* The parameters are tested according to EN 308 standards.

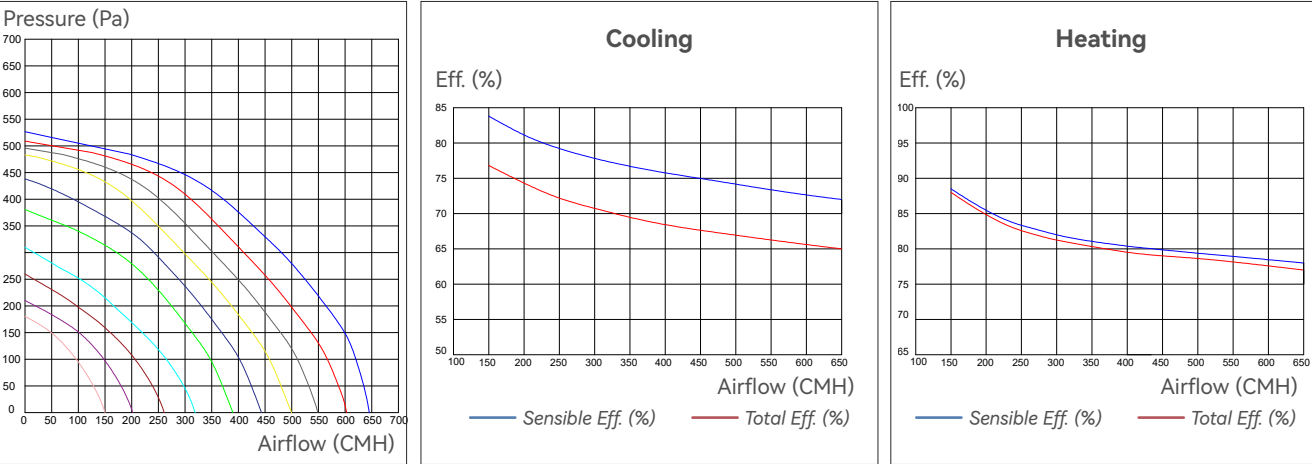
Model		Unit	AV-HTPF35	AV-HTPF60	AV-HTPF90
Rated airflow		CMH	350	620	950
Exhaust airflow (ventilation mode)		CMH	350	620	950
Exhaust airflow (heating/cooling mode)		CMH	350	620	950
External static pressure		Pa	100	100	100
Ventilation mode	Temperature Effi. (heating)	%	77	78	77
	Temperature Effi. (cooling)	%	72	72	73
	Enthalpy Effi. (heating)	%	76	77	70
	Enthalpy Effi. (cooling)	%	70	65	66
	Input power	W	185	451	788
	Input current	A	1.67	3.77	3.93
Cooling/Heating	Normal cooling capacity	W	3798	6394	8293
	Max cooling capacity	W	4173	6946	8801
	Input power (cooling)	W	847	1243	1487
	Operation current (cooling)	A	4.43	6.55	6.95
	Normal heating capacity	W	4631	6287	8870
	Max heating capacity	W	4981	6921	9110
	Input power (heating)	W	790	1033	1427
	Operation current (heating)	A	3.91	5.74	6.76
Noise		dB(A)	37 / 42	40/44.6	41/46
Power		/	220V 1Ph 50/60Hz		
Dimension (W*L*H)		mm	600*760*1100	740*1050*990	740*1090*1130
Weight		Kg	135	165	190
Air Inlet/Outlet Diameter		mm	195	245	245
Air Inlet/Outlet Height		mm	40		
Machine Base Height		mm	40		
Drainage pipe		/	G1/2 21mm		
Refrigerant		/	R32		
Refrigerant charge		g	370	500	660

PERFORMANCE CHART

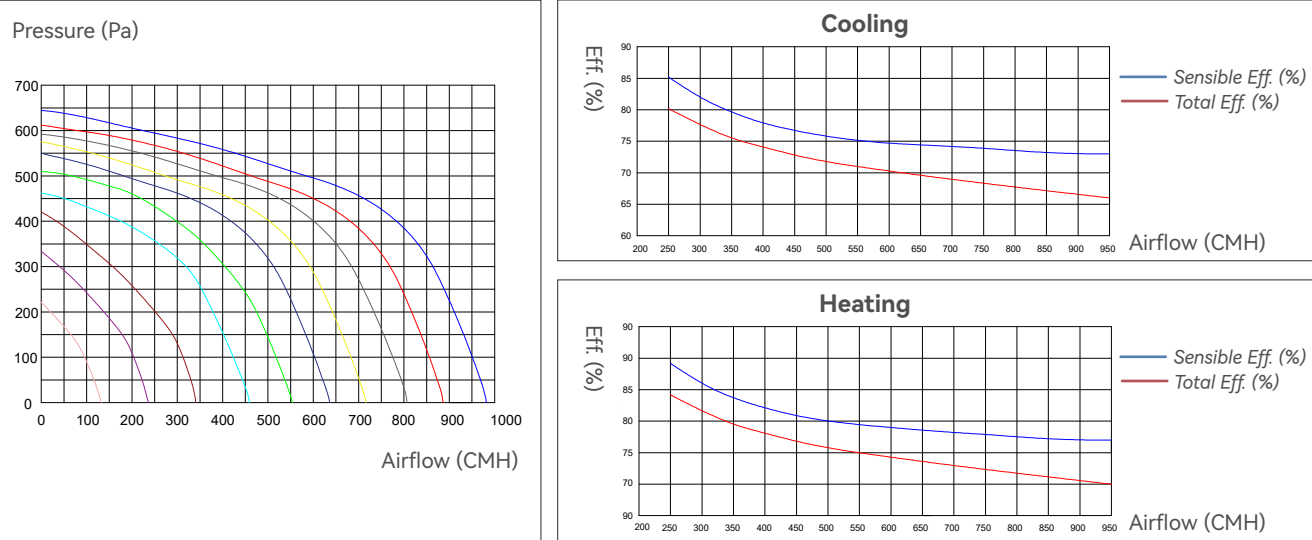
AV-HTPF35



AV-HTPF60



AV-HTPF90

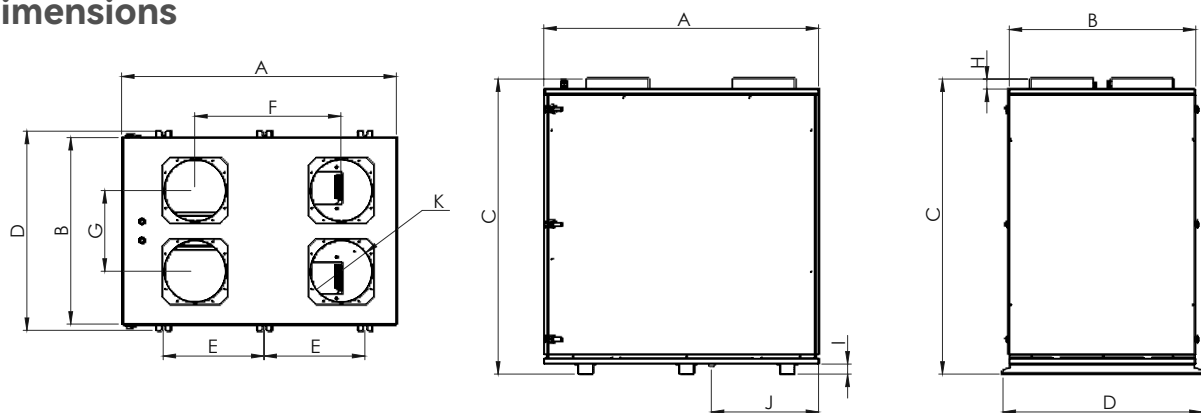


ECODESIGN INFORMATION

According to Commission Regulation (EU) No 1254/2014.

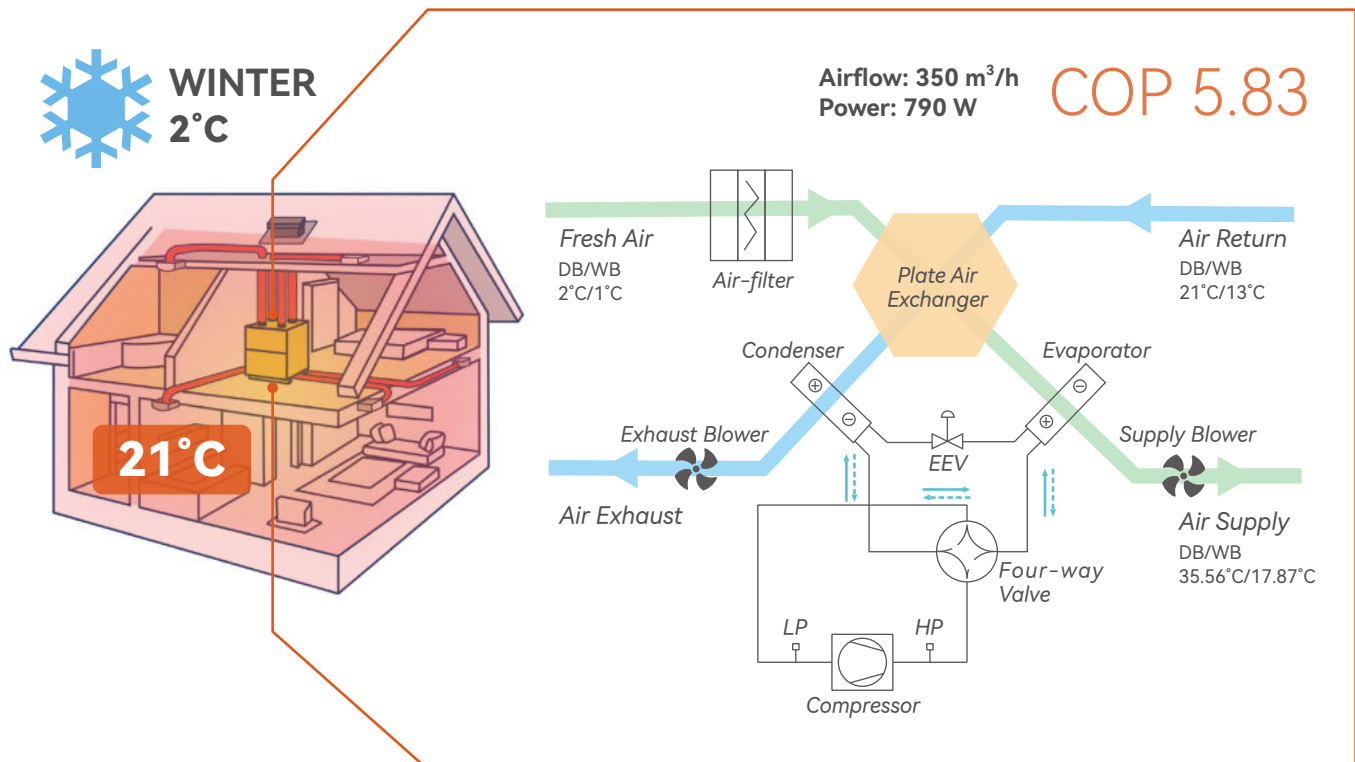
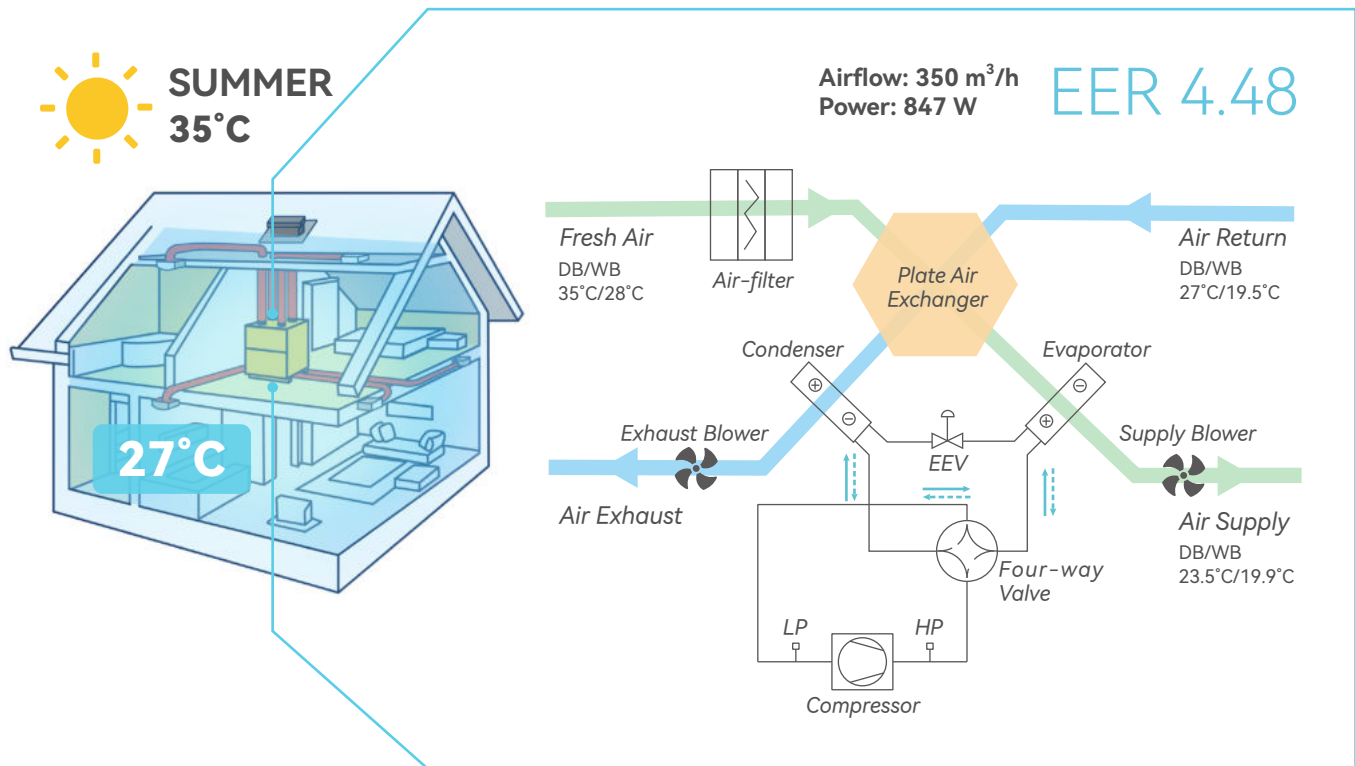
Model	AV-HTPF35	AV-HTPF60	AV-HTPF90
Energy class-Average	A	A	A
Specific energy consumption-Average (KWh/m2.a)	-38.07	-37.87	-37.14
Specific energy consumption-Cold (KWh/m2.a)	-75.21	-75.20	-74.48
Specific energy consumption-Warm (KWh/m2.a)	-14.17	-13.85	-13.13
Type of airflow	DF	DF	DF
Declared type	RVU	RVU	RVU
Type of motor	Variable speed drive	Variable speed drive	Variable speed drive
Type of heat recovery system	Recuperative	Recuperative	Recuperative
Thermal efficiency of heat recovery(%)	78%	79%	79%
Maximum flow rate(m3/h)	350	620	950
Electric power input of the fan drive at maximum flow rate(W)	185	451	788
Sound power level dB(A)	45	48	49
Reference flow rate(m3/s)	0.07	0.12	0.18
Reference pressure difference(Pa)	50	50	50
Specific power input(SPI)(W/(m3/h))	0.45	0.48	0.53
Control factor	0.65	0.65	0.65
Type control system	Local demand control	Local demand control	Local demand control
Maximum internal and external leakage rates(%)	< 5% Internal, < 5% External		
Visual filter warning	Timer	Timer	Timer
The annual electricity consumption (AEC) (kWh electricity/a)	2.82	2.99	3.28
The annual heating saved-Average(KWh primary energy/a)	44.45	44.66	44.66
The annual heating saved-Cold (KWh primary energy/a)	86.95	87.36	87.36
The annual heating saved-Warm (KWh primary energy/a)	20.10	20.19	20.19

Dimensions



Model	A	B	C	D	E	F	G	H	I	J	K
AV-HTPF35	760	600	1100	650	280	335	370	40	40	305	ø195
AV-HTPF60	1050	740	990	790	400	540	320	40	40	415	ø245
AV-HTPF90	1090	740	1130	790	400	580	320	40	40	425	ø245

WORKING PRINCIPLE



FEATURES



Double energy recovery, **COP over 6***.



Fresh air preconditioning, save your electricity bill on heating system and AC system greatly.



Work as an independent air conditioner in suitable seasons and places.



Low noise level of 37/42 dB(A).



Equipped with EC fans & DC inverter compressor to minimize energy consumption.



Wide working ambient conditions from -15°C ~ 50°C.



Indoor air quality monitoring like CO₂, humidity, TVOC and PM2.5.

* Test conditions: Indoor 21°C DB / 13°C WB; Outdoor -7°C DB / -9°C WB.



Advantages Compared with Standard ERV

SUMMER CONDITIONS			
No	Description	Temperature	Relative Humidity
1	Outside Temperature OA	35°C	59.10%
2	Inside Temperature RA	27°C	49.80%
3	Fresh Air (Standard Heat Recovery Units) SA	29.24°C	55.48%
4	Fresh Air (Heat Pump Heat Recovery Units) SA	23.5°C	72.11%

WINTER CONDITIONS			
No	Description	Temperature	Relative Humidity
1	Outside Temperature OA	2°C	83.84%
2	Inside Temperature RA	21°C	39.16%
3	Fresh Air (Standard Heat Recovery Units) SA	15.68°C	73.57%
4	Fresh Air (Heat Pump Heat Recovery Units) SA	35.56°C	17.87%