



Refresh Unit-System



Airpass, a landmark of the ventilator industry,
pledges to provide a masterpiece in living space achieved
with the most truly unique technology in the world.

2002.	01.	Shinwoo Industries established
	09.	Converted into a corporation at 4th Floor Samwon Bldg, 788-4 Gwangcheon-dong, Seo-gu, Gwangju Metro City
	12.	2000 Revenue reached 1,7 billion KRW
2001.	12.	2001 Revenue reached 2,54 billion KRW
2002.	12.	Revenue reached 4,34 billion KRW
2003.	12.	2003 Revenue reached 5,0 billion KRW
2004.	10.	Office moved to 892-10 Chipyeong-dong, Seo-gu, Gwangju Metro City
		2004 Revenue reached 3,5 billion KRW
2005.	02.	Capital increased to 310 million KRW
	12.	2005 Revenue reached 4,0 billion KRW
2006.	07.	Patent registered (Ventilating unit)
	12.	2006 Revenue reached 6,4 billion KRW
2007.	02.	Company name changed to Airpass Co., Inc.
	05.	Elected as a MAINBIZ company Seoul Division opened
	06.	Built and moved to a new building for headquarters located at 893-15 Chipyeong-dong Seo-gu, Gwangju Metro City
	10.	Busan Branch Office opened
	12.	2007 Revenue reached 11,4 billion KRW
2008.	01.	Acquired ISO 9001 certification
	04.	Selected as an INNOBIZ company
	05.	Capital increased to 410 million KRW
	08.	Patent registered (Ventilation cap and ventilating apparatus thereof)
	12.	2008 Revenue reached 14,1 billion KRW
2009.	12.	2009 Revenue reached 16,4 billion KRW
2010.	03.	Received a citation for faithful taxpayer (Head of Seogwangju NTS Office). Received a citation for excellent construction company (Gwangju superintendent of education) .
	12.	2010 Revenue reached 17,4 billion KRW
2011.	10.	Patent registered (Integrated ventilation system for household use)
	12.	2011 Revenue reached 17,6 billion KRW
2012.	03.	Design patent registered (A cap for vent)
	04.	Seoul Division moved
	12.	2012 Revenue reached 25,4 billion KRW
2013.	04.	Daejeon Division opened
	12.	2013 Revenue reached 27,5 billion KRW
2014.	09.	Established APENG Co., Ltd.
	12.	Acquired KC Certification
		2014 Revenue reached 31,0 billion KRW
2015.	06.	Acquired KS Certification
	07.	Built an extension on and move to the headquarters building located at 45 Pyeongdong-ro 803 beon-gil (Ok-dong), Gwangsan-gu, Gwangju Metro City
	12.	2015 Revenue reached 32,7 billion KRW
2016.	02.	Selected as a small hidden champion
	03.	Acquired high-efficiency energy equipment certification (additional three models)

Based on accumulated knowhow and the development of innovative technologies for advancement all the while, Airpass will grow as a specialty company that creates the best values by converting information into knowledge and carrying out knowledge-based management.

CEO **Jeong Hong Sig**




Since its establishment, Airpass has been trying its best to enhance its competence in the advancement of ventilation systems by incessantly pursuing changes and innovation with an indomitable will for challenge and a creative spirit. We pledge to make the best efforts to become an excellent company that opens up a more affluent future through the development of innovative technologies, knowledge-based management, and the advancement of its business structure based on our experiences and accumulated technologies. In the future, we will position ourselves as a global leader in the ventilator industry as an eco-friendly company by converting into a more trustworthy company creating values with our orientation of providing the best service, securing core competences, and through offering the best quality.



Refresh Unit Airpass BEST STYLE

Superiorities of Airpass ventilation system

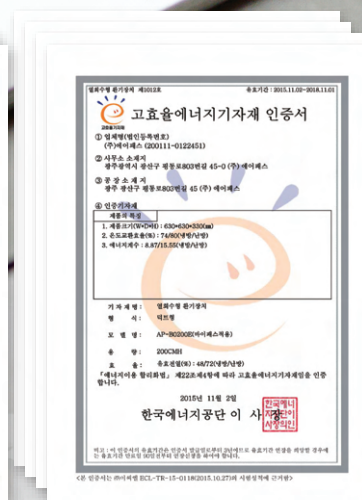
Airpass ventilation system is certified as high-efficiency energy equipment and acknowledged for its various cutting-edge technologies. We take the lead in providing comfortable air atmosphere.



No. 10-0607211
Ventilating unit



No. 10-0852765
Ventilation cap and ventilating
apparatus thereof



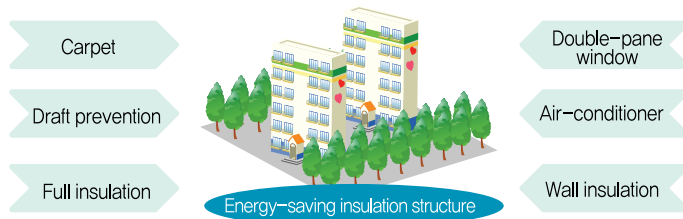
High-efficiency energy
equipment certificate
AP-B0200E and many others



Why is ventilation required

Structural change of the modern architecture

Today, as the cost of energy is increasing, the architectural design is enabled in the form of actively pursuing energy reduction and decrease in heat loss. As a result, the humidity and polluted air that are generated indoors are not emitted properly, and air circulation with the outdoor air is not enabled appropriately. Thus, various dusts, bacteria, harmful gas and smell are causing serious harm to the human body and the architectural structures.



Pollutant generation status in the indoor air quality

Indoor Air Quality (IAQ) showed to be over 2~10 times more harmful than the outdoor air due to the influence of the human body and activities, and also from various harmful architectural materials, and synthetic chemical substances in the indoor interior materials.



Ventilation amount standard according to the pollution source of AIVC

In the 1989 report, AIVC (Air Infiltration & Ventilation Center) indicated the required ventilation amount for removing pollutants such as smoke, dust and organic compound, etc.

Minimum ventilation amount required for controlling and removing indoor pollutants

Indoor air pollutant	Effect	Indoor concentration limit	Control method	Minimum ventilation amount	Measures
Smoke	Discomfort, stimulation, harm to the human body	As for a healthy person, 1~2ppm of CO concentration will cause discomfort and stimulation	Non-smoking policy and installation of smoke area	50~120m ³ , 8~20ml/s per 1 cigarette	Separate or restrict smoke space as possible, if permitted, appropriate ventilation is required
Dust	Discomfort, stimulation, harm to the human body	75g/m ³	Non-smoking policy and installation of smoke area	17.5ml/s per 1 person	Smoking is the main cause, therefore, it is same as shown above
Body odor and bad odor	Discomfort	0.10% CO ₂ (0.15% CO ₂)	—	8.0ml/s per 1 person (3~4ml/s per 1 person)	If the number of occupants are predictable, variable ventilation according to the number of occupants
Humidity	Damage to the building structure	Less than 70% of relative humidity must be maintained (Not sufficient condition)	Kitchen and bathroom ventilation	Approximately 0.5~1.0 ach	Local ventilation of the occurrence site within the minimum ventilation amount range
Radioactive substance (Radon)	Harm to the human body	ALARA regulation or 200~400/m ³	Indoor negative pressure (—) prevention, ground floor structure sealing	Optimum ventilation amount is not set	Prevent radon inflow from the soil, indoor negative pressure (—) prevention, proper mechanical ventilation
Substance generated on combustion	Discomfort, stimulation, harm to the human body	WHO Guideline	Combustion instrument, exhaust system, local ventilation system	Optimum ventilation amount is not set	Removal of combustion unit, local ventilation proper outdoor air inflow
Volatile organic compound	Discomfort, stimulation, harm to the human body	Limit setting on some substances	Restriction of carcinogen and ejection rate	Optimum ventilation amount is not set	Limit release amount / air supply / control construction material or equipment



Laws and Regulations Related to Ventilation

Indoor Air Quality (IAQ) certification system and related laws and regulations

Division	Ministry of Environment	Ministry of Land, Transport and Maritime Affairs	Ministry of Knowledge Economy
Relevant statutory provisions	Air Quality Management Act on Multi-use Facilities	Regulation on the facility standard of the building	Enforcement Regulation of the School Health Act Energy Use Utilization Act
Subject of application	Multi-use facility (17 facility groups) Apartment houses (Over 100 households)	Multi-use facility apartment house (Including multi-purpose building, remodeling building)	Energy-saving on school buildings (Elementary, middle, high schools)
Progression status	<ul style="list-style-type: none"> Enforced in May 30, 2004 1st revision in May, 2005 2nd revision in Dec., 2005 	<ul style="list-style-type: none"> Ventilation system installation obligation (Housing Act) Housing performance rating system performed <ul style="list-style-type: none"> ~2,000 households or more until 2007 ~1,000 households or more until 2008 ~500 households or more from 2013 Applied from the construction approval on February 13, 2006 	Revised in November 14, 2005 Revision on the High-efficiency energy equipment supply promotion regulation is in progress
Main contents	<ul style="list-style-type: none"> 'Ventilation system installation standard' on multi-use facility provided In the 1st revision, 'dormitory' and 'underground neighborhood living facility - affiliated to the ground' included in the facility group In the 2nd revision, recommended indoor air quality standard of the newly constructing apartment houses confirmed 	<ul style="list-style-type: none"> Apartment house ventilation system installation standard set Ventilation installed multi-use facility and required ventilation amount set Housing performance rating acknowledged and management standard established <ul style="list-style-type: none"> ~4 ratings in the apartment houses High-performance filter and heat exchange efficiency standard provided 	<ul style="list-style-type: none"> Ventilation amount per 1 person: 21.6 CMH CO₂ concentration standard in the class changed <ul style="list-style-type: none"> Mechanical ventilation: 1,500ppm Natural ventilation: 1,000ppm Noise in the classroom: 5.5dB or less Air quality maintenance level in the classroom is set Currently pending in the Korea Energy Management Corporation <ul style="list-style-type: none"> Civil complaint filed by existing certified companies Planned to be included on high-efficiency certified item revision <ul style="list-style-type: none"> The existing certification is different from the KS Standard to require revision
Remark	Compulsory performance order on not fulfilling the multi-use facility standard On non-fulfillment, fine less than 10 million won and imprisonment.	<ul style="list-style-type: none"> Over 0.5 times/hour of natural or mechanical ventilation system The performance rating efficiency is applied with the high-efficiency equipment certification standard revised in 2010 	From Jan., 2006, ventilation system must be installed on new schools



Criteria for construction facilities in housing

Regulation for Facility in Building

→ Revised in December 2013 by the Ministry of Land and Transportation

- Indoor air ventilation for more than 0.5 times per hour for collective housing of over 100 households
- Ventilation functionality grading system for housing (4 grades) enforced
- Sets forth criteria for the installation and designed ventilation rate of the ventilation system in collective housing

Criteria for construction of health-friendly housing

→ Notification of the Ministry of Land and Transportation, Enforced on May 7, 2014.



Indoor Air Quality Control in Public Use Facility, Etc. Act for public use facilities

Indoor Air Quality Control in Public Use Facility, Etc. Act

→ Ministry of Environment, Enforced in May 2004.

- Compulsory measurement and report of indoor air quality
- Compulsory installation of ventilation equipment
- Sets forth the criteria for indoor air quality for collective housing



Enforcement Decree of the School Health Act for educational facilities

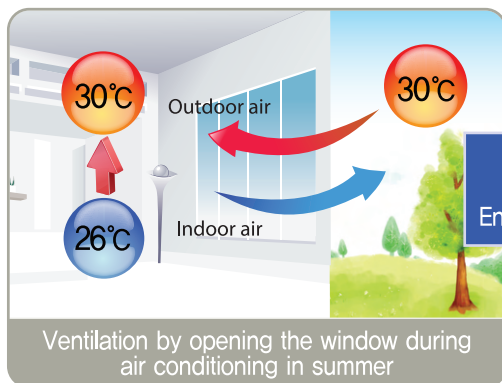
Revised Enforcement Decree of the School Health Act

→ Ministry of Education, Enforced in November 2005.

- Compulsory installation of ventilation equipment in new schools
- Required ventilation rate per person: 21.6CMH
- Maximum CO₂ concentration after installing a ventilation equipment → 1,500ppm

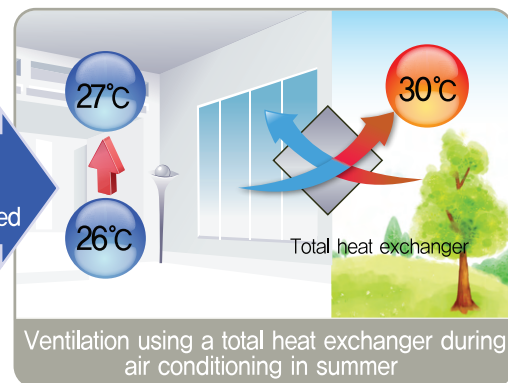
Energy Recovery and Cost Reduction

Energy recovery by total heat exchange method



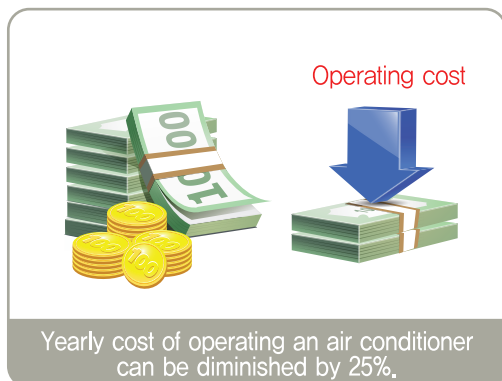
The simplest way to ventilate indoor air is to open the window. Cooled indoor air flows out, nevertheless, which forces cooling indoor air again.

25%
Energy reduced

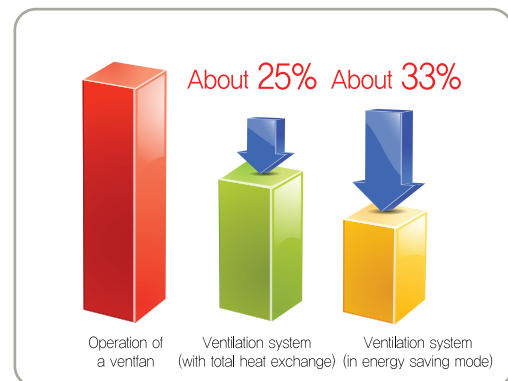


A total heat exchanger allows users to exchange indoor air with fresh outdoor air while maintaining the indoor temperature and humidity.

Energy recovery by total heat exchange method

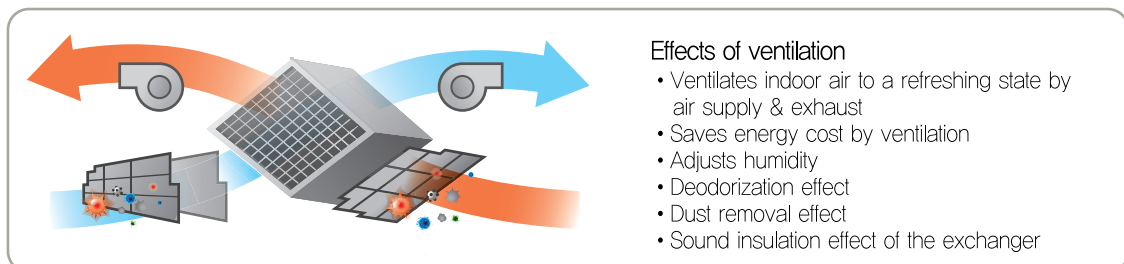


By using a total heat exchanger, the yearly air conditioning cost can be diminished by about 25% (compared to simple ventilation by opening the window).



A maximum of 30% of the power saving can be achieved as compared with running a simple ventilating fan since the system automatically senses indoor and outdoor temperatures and applies a power-saving algorithm that optimizes the operation of indoor and outdoor fans and dampers.

Total (sensible & latent) heat exchanger



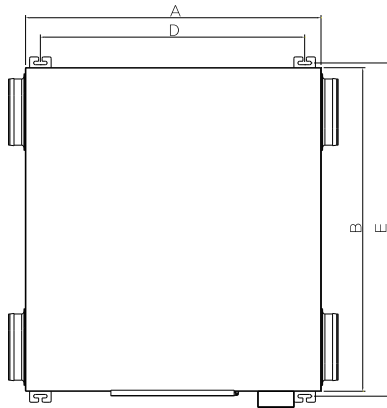


Clean Well-being System
REFRESH UNIT AIRPASS

S-SERIES

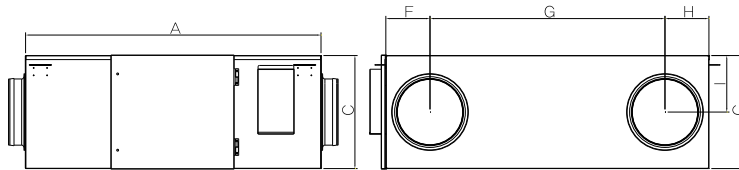
High Efficiency Ventilation Unit





Dimension

Item	Exterior dimension			Hanger dimension		Flange dimension			
	A	B	C	D	E	F	G	H	I
AP-015OS	545	740	250	578	670	153	389	198	115
AP-020OS	545	740	250	578	670	153	389	198	115
AP-025OS	545	740	250	578	670	153	389	198	115
AP-035OS	545	740	250	578	670	153	370	217	115
AP-050OS	900	700	400	800	736	131	439	130	200
AP-080OS	1100	1200	420	980	1238	164	872	164	210
AP-100OS	1100	1200	420	980	1238	164	872	164	210
AP-150OS	1200	1300	545	993	1350	287	580	253	253
AP-200OS	1400	1400	490	1230	1450	287	580	253	293



Item	Material used	Q'ty
CASING	GI Steel	1
ACCESS COVER	GI Steel	1
FAN & MOTOR ASSY	—	2
HEAT EXCHANGER ELEMENT	Specially treated paper	1~2
PRE-FILTER	Polyester	2~4
DUCT FLANGE	ABS	4
CONTROL BOX	GI Steel	1
INSULATION	PU foam, PE foam 5.0~10.0T	1

Specification

Item	Air volume(CMH)			Power consumption(W)			Constant pressure	Noise	Duct diameter	Heat exchange efficiency(%)		Energy coefficient	
	High	Medium	Low	High	Medium	Low	Pa	dB	(ø)	Cooling	Heating	Cooling	Heating
AP-015OS	180	150	105	48	40	35	100 No less than	40 No more than	125/150	75	77	13.54	25.56
AP-020OS	240	200	145	84	70	39	100 No less than	40 No more than	125/150	75	81	12.05	21.01
AP-025OS	300	250	210	120	102	74	100 No less than	40 No more than	125/150	74	80	9.37	17.42
AP-035OS	375	350	300	172	154	104	100 No less than	40 No more than	150	65	73	8.12	15.51
AP-050OS	500	380	290	164	125	96	150 No less than	45 No more than	200	78	73	10.72	20.79
AP-080OS	800	680	480	251	194	160	150 No less than	45 No more than	250	87	74	12.30	22.87
AP-100OS	1000	850	600	375	265	178	150 No less than	45 No more than	250	79	70	9.37	18.13
AP-150OS	1500	1300	1100	681	590	500	150 No less than	45 No more than	300	61	82	8.66	15.17
AP-200OS	2000	1500	1000	1200	1000	700	150 No less than	45 No more than	350	—	—	—	—
Common specification	<ul style="list-style-type: none"> • Power : 220V,50 / 60Hz • heat exchanger : Plate-type • Air volume control : High/middle/low — three levels • Filters: Pre-filter, Medium-filter(Optional) • Casing material : GI Steel • Additional options : M.D. / B.D.D. • Warranty period : 2 years 												

*The above specifications are subject to change for the improvement of product functions.

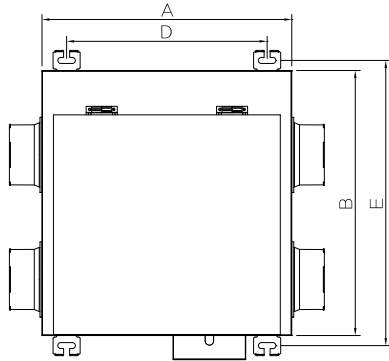


Clean Well-being System
REFRESH UNIT AIRPASS

C-SERIES

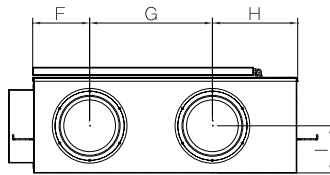
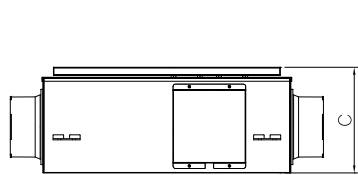
High Efficiency Apartment Ventilation Unit





Dimension

Item	Exterior dimension			Hanger dimension		Flange dimension				
	A	B	C	D	E	F	G	H	I	
AP-0100C	432	432	210	475	360	86	190	156	105	
AP-0150C	495	525	210	402	568	110	249	166	94	
AP-0200C	550	550	250	400	593	132	240	178	115	
AP-0250C	600	600	250	450	643	133	282	185	115	



Item	Material used	Q'ty
CASING	GI Steel	1
ACCESS COVER	GI Steel	1
FAN & MOTOR ASSY	—	2
HEAT EXCHANGER ELEMENT	Specially treated paper	1
PRE-FILTER	Polyester	2
DUCT FLANGE	ABS	4
CONTROL BOX	GI Steel	1
INSULATION	PU foam, PE foam 5,0~10,0T	1

Specification

Item	Air volume(CMH)			Power consumption(W)			Constant pressure	Noise	Duct diameter	Heat exchange efficiency(%)		Energy coefficient	
	High	Medium	Low	High	Medium	Low	Pa	dB	(ø)	Cooling	Heating	Cooling	Heating
AP-0100C	115	100	90	43	38	33	100 No less than	40 No more than	100/125	72	76	8,87	16,70
AP-0150C	185	150	120	74	62	49	100 No less than	40 No more than	125	69	76	8,54	16,39
AP-0200C	240	200	145	98	71	60	100 No less than	40 No more than	125	71	76	10,95	19,00
AP-0250C	280	250	180	116	103	78	100 No less than	40 No more than	125	74	79	8,64	16,19

Common specification

- Power : 220V, 50Hz / 60Hz
- heat exchanger : Plate-type
- Air volume control : High / middle / low – three levels
- Filters: Pre-filter, Medium-filter(Optional)
- Casing material : GI Steel
- Additional options : M.D. / B,D,D.
- Warranty period : 2 years

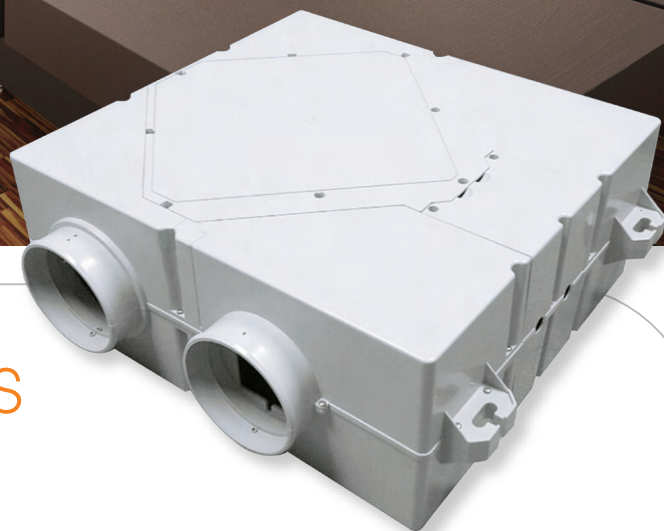
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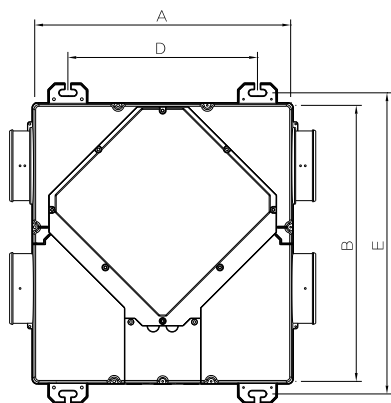


Clean Well-being System
REFRESH UNIT AIRPASS

PS-SERIES

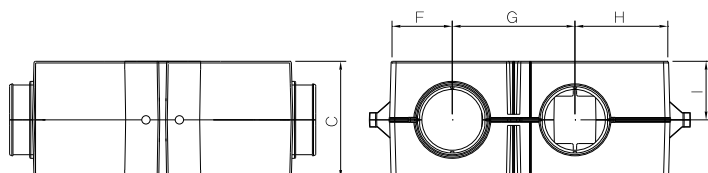
High Efficiency Ventilation Unit





Dimension

Item	Exterior dimension			Hanger dimension		Flange dimension			
	A	B	C	D	E	F	G	H	I
AP-080PS	460	495	210	340	540	108	220	167	105
AP-0100PS	460	495	210	340	540	108	220	167	105
AP-0150PS	460	495	210	340	540	108	220	167	105



Item	Material used	Q'ty
CASING	ABS	1
ACCESS COVER	ABS	1
FAN & MOTOR ASSY	—	2
HEAT EXCHANGER ELEMENT	Specially treated paper	1
PRE-FILTER	Polyester	2
DUCT FLANGE	ABS	4
CONTROL BOX	ABS	1
INSULATION	PUfoam, PEfoam5,0~10,0T	1

Specification

Item	Air volume(CMH)			Power consumption(W)			Constant pressure	Noise	Duct diameter	Heat exchange efficiency(%)		Energy coefficient	
	High	Medium	Low	High	Medium	Low	Pa	dB	(ø)	Cooling	Heating	Cooling	Heating
AP-080PS	95	80	50	—	—	—	100 No less than	40 No more than	125	—	—	—	—
AP-0100PS	120	100	70	55	46	32	100 No less than	40 No more than	125	71	81	9,02	15,08
AP-0150PS	180	150	105	66	62	48	100 No less than	40 No more than	125	70	78	8,84	15,90

Common specification

- Power : 220V, 50Hz / 60Hz
- heat exchanger : Plate-type
- Air volume control : High / middle / low — three levels
- Filters: Pre-filter, Medium-filter(Optional)
- Casing material : ABS
- Additional options : M.D. / B.D.D
- Warranty period : 2 years

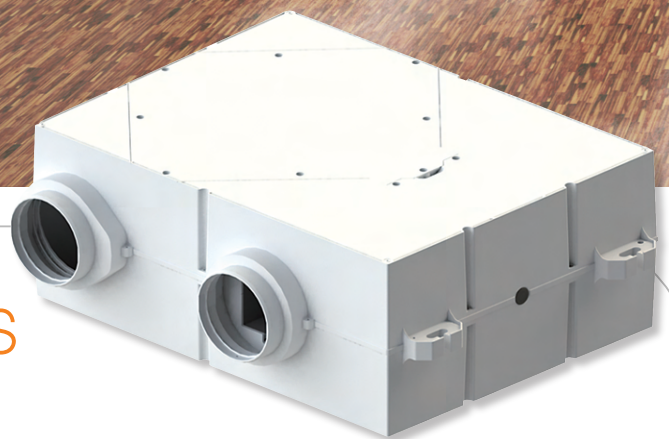
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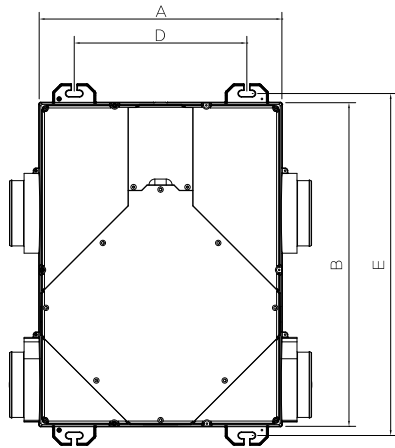


Clean Well-bing System
REFRESH UNIT AIRPASS

PM-SERIES

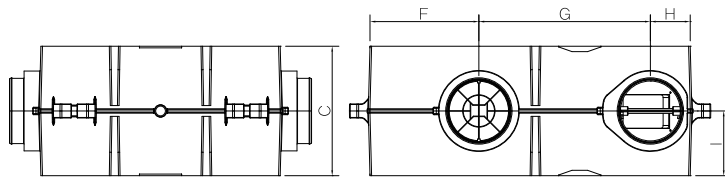
High Efficiency Ventilation Unit





Dimension

Item	Exterior dimension			Hanger dimension		Flange dimension			
	A	B	C	D	E	F	G	H	I
AP-0100PM	450	600	240	320	634	205	318	77	120
AP-0150PM	450	600	240	320	634	205	318	77	120
AP-0200PM	450	600	240	320	634	205	318	77	120



Item	Material used	Q'ty
CASING	ABS	1
ACCESS COVER	ABS	1
FAN & MOTOR ASSY	—	2
HEAT EXCHANGER ELEMENT	Specially treated paper	1
PRE-FILTER	Polyester	2
DUCT FLANGE	ABS	4
CONTROL BOX	ABS	1
INSULATION	PU foam, PE foam, 0~10,0T	2

Specification

Item	Air volume(CMH)			Power consumption(W)			Constant pressure	Noise	Duct diameter	Heat exchange efficiency(%)		Energy coefficient	
	High	Medium	Low	High	Medium	Low	Pa	dB	(ø)	Cooling	Heating	Cooling	Heating
AP-0100PM	120	100	70	41	34	24	100 No less than	40 No more than	125	78	81	11.17	19.34
AP-0150PM	180	150	105	65	54	38	100 No less than	40 No more than	125	76	81	13.68	19.20
AP-0200PM	240	200	150	89	74	56	100 No less than	40 No more than	125	69	78	12.47	17.98

Common specification

- Power : 220V, 50Hz / 60Hz
- heat exchanger : Plate-type
- Air volume control : High / middle / low — three levels
- Filters: Pre-filter, Medium-filter(Optional)
- Casing material : ABS
- Additional options : M.D. / B.D.D. / heater / CO₂
- Warranty period : 2 years

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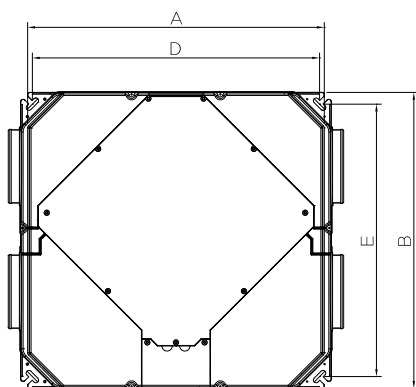


Clean Well-being System
REFRESH UNIT AIRPASS

P-SERIES

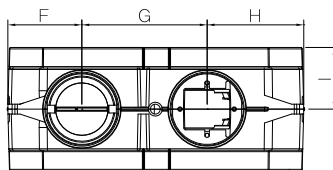
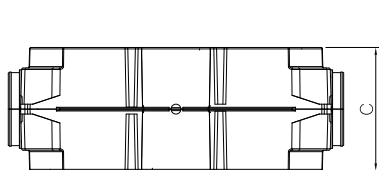
High Efficiency Ventilation Unit





Dimension

Item	Exterior dimension			Hanger dimension		Flange dimension			
	A	B	C	D	E	F	G	H	I
AP-0150P	600	600	250	582	552	150	254	196	125
AP-0200P	600	600	250	582	552	150	254	196	125
AP-0250P	600	600	250	582	552	150	254	196	125
AP-0300P	600	600	250	582	552	150	254	196	125
AP-0350P	600	600	250	582	552	150	254	196	125



Item	Material used	Q'ty
CASING	ABS	1
ACCESS COVER	ABS	1
FAN & MOTOR ASSY	—	2
HEAT EXCHANGER ELEMENT	Specialty treated paper	1
PRE-FILTER	Polyester	2
DUCT FLANGE	ABS	4
CONTROL BOX	ABS	1
INSULATION	PU foam, PE foam 5.0~10.0T	1

Specification

Item	Air volume(CMH)			Power consumption(W)			Constant pressure	Noise	Duct diameter	Heat exchange efficiency(%)		Energy coefficient	
	High	Medium	Low	High	Medium	Low	Pa	dB	(ø)	Cooling	Heating	Cooling	Heating
AP-0150P	180	150	105	55	45	41	100 No less than	40 No more than	125	87	74	14,89	24,67
AP-0200P	240	200	150	85	65	46	100 No less than	40 No more than	125	82	71	13,01	22,00
AP-0250P	280	250	210	117	90	71	100 No less than	40 No more than	125	77	70	10,73	19,04
AP-0300P	335	300	255	140	127	107	100 No less than	40 No more than	150	67	77	9,00	16,20
AP-0350P	375	350	300	164	145	124	100 No less than	40 No more than	150	64	75	8,20	15,40

Common specification

- Power : 220V, 50Hz / 60Hz
- heat exchanger : Plate-type
- Air volume control : High / middle / low – three levels
- Filters : Pre-filter, Medium-filter(Optional)
- Casing material : ABS
- Additional options : M.D. / B.D.D. / heater / CO₂
- Warranty period : 2 years

*The above specifications are subject to change for the improvement of product functions.

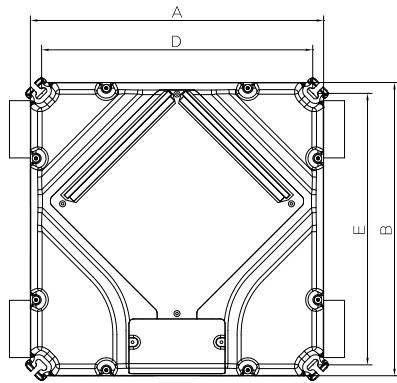


Clean Well-being System
REFRESH UNIT AIRPASS

E-SERIES

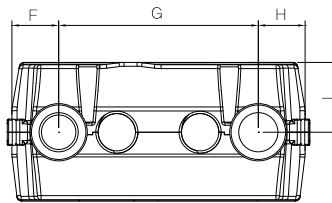
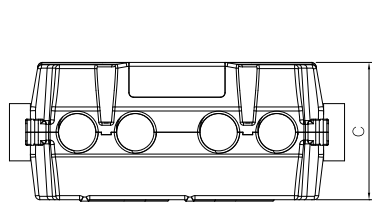
High Efficiency Ventilation Unit





Dimension

Item	Exterior dimension			Hanger dimension		Flange dimension			
	A	B	C	D	E	F	G	H	I
AP-0150E	630	630	298	583	583	100	430	100	150
AP-0200E	630	630	298	583	583	100	430	100	150
AP-0250E	630	630	298	583	583	100	430	100	150



Item	Material used	Q'ty
CASING	EPP	1
ACCESS COVER	ABS	1
FAN & MOTOR ASSY	—	2
HEAT EXCHANGER ELEMENT	Specially treated paper	1
PRE-FILTER	Polyester	2
DUCT FLANGE	ABS	4
CONTROL BOX	ABS	1
INSULATION	—	—

Specification

Item	Air volume(CMH)			Power consumption(W)			Constant pressure	Noise	Duct diameter	Heat exchange efficiency(%)		Energy coefficient	
	High	Medium	Low	High	Medium	Low	Pa	dB	(ø)	Cooling	Heating	Cooling	Heating
AP-0150E	180	150	105	68	57	40	100 No less than	40 No more than	125	73	87	13,35	19,63
AP-0200E	240	200	150	100	80	56	100 No less than	40 No more than	125	71	85	11,95	17,73
AP-0250E	280	250	210	123	110	82	100 No less than	40 No more than	125	66	82	9,8	15,37

Common specification

- Power : 220V, 50Hz / 60Hz
- heat exchanger : Plate-type
- Air volume control : High / middle / low — three levels
- Filters: Pre-filter, Medium-filter(Optional)
- Casing material : EPP(Expanded Poly-Propylene)
- Additional options : M.D. / B.D.D.
- Warranty period : 2 years

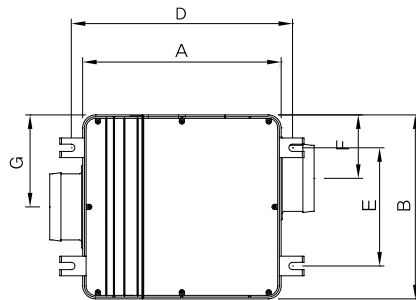
*The above specifications are subject to change for the improvement of product functions.



Clean Well-being System
REFRESH UNIT AIRPASS

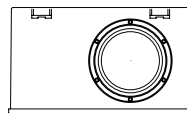
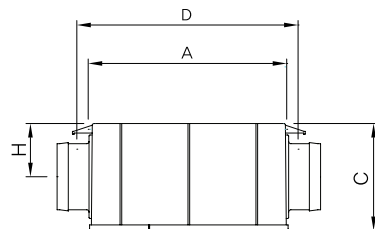
Supply Air(Exhaust Air) Unit





Dimension

Item	Exterior dimension			Hanger dimension		Flange dimension		
	A	B	C	D	E	F	G	H
AP-0150B	350	320	195	396	266	112	160	120
AP-0200B	350	320	195	396	266	112	160	120
AP-0250B	350	320	195	396	266	112	160	120
AP-0300B	350	320	195	396	266	112	160	120
AP-0350B	350	320	195	396	266	112	160	120



Item	Material used	Q'ty
CASING	ABS / GI Steel	1
ACCESS COVER	ABS / GI Steel	1
FAN & MOTOR ASS'Y	—	1
PRE-FILTER	Polyester	1
DUCT FLANGE	ABS	2
CONTROL BOX	ABS	1
INSULATION	PU foam, PFC foam 5.0~10.0T	1

Specification

Item	Air volume(CMH)			Power consumption(W)			Constant pressure	Noise	Duct diameter
	High	Medium	Low	High	Medium	Low	Pa	dB	(ϕ)
AP-0150B	180	150	105	30	27	24	100	40 No more than	125
AP-0200B	240	200	145	43	30	26	100	40 No more than	125
AP-0250B	300	250	180	53	44	30	100	40 No more than	125
AP-0300B	350	300	210	63	53	37	100	40 No more than	125
AP-0350B	400	350	240	70	63	39	100	40 No more than	125

Common specification

- Power : 220V, 50/60Hz
- Air volume control : High / middle / low — three levels
- Filters: Pre-filter , Medium-filter(Optional)
- Casing material : ABS, GI steel
- Supply Air Unit : PTC Heater(Optional)
- Exhaust Air Unit : Exc. Insulator
- Warranty period : 2 years

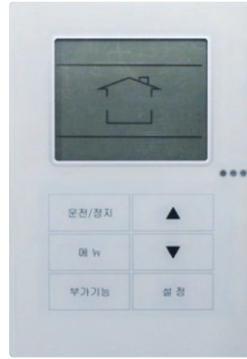
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Control System

Remote Controller



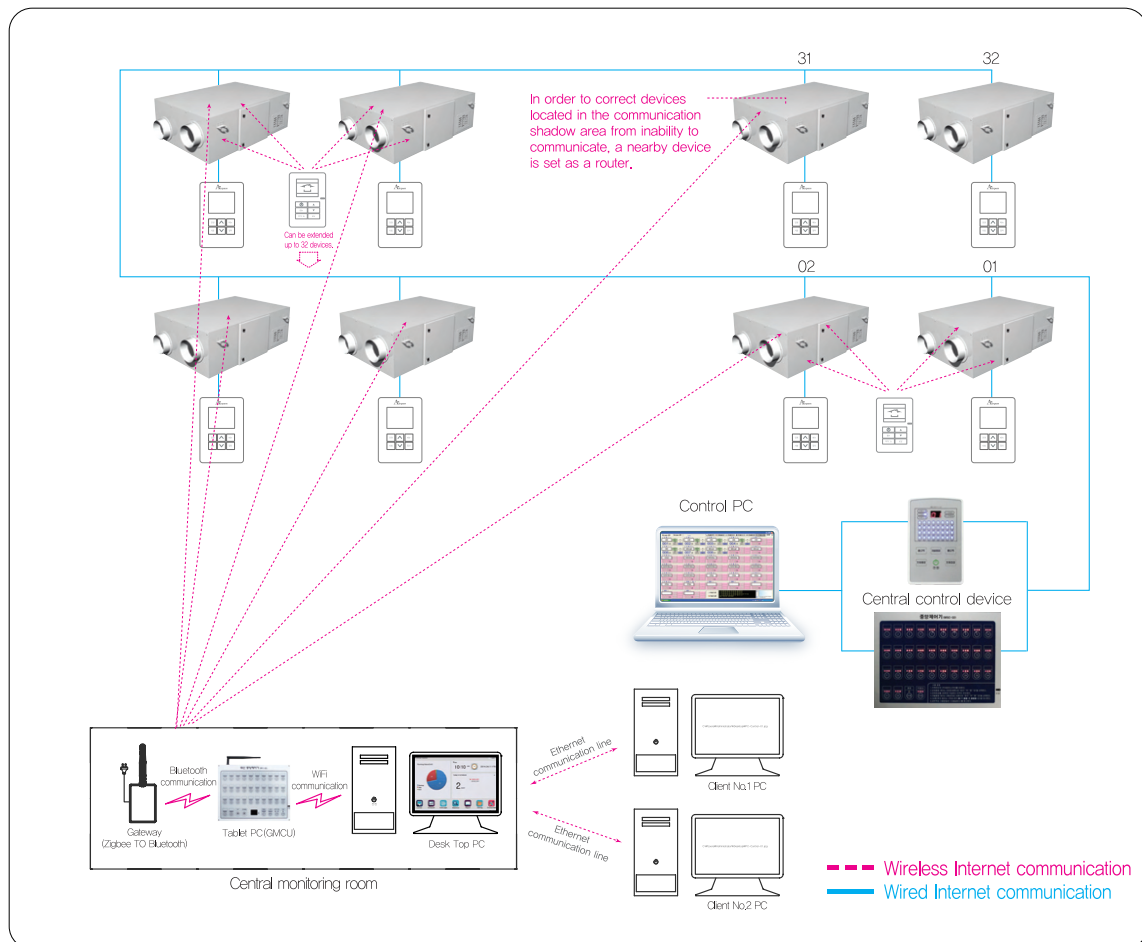
APR-500



MSC-100

PC Central control device

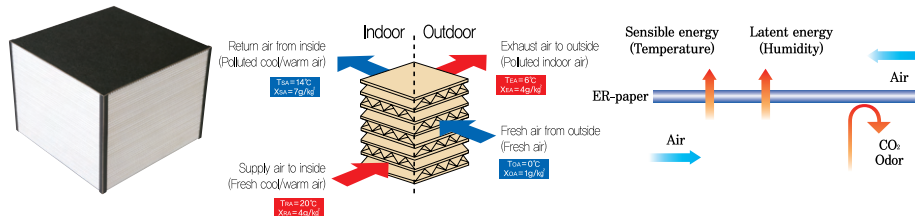
Allows users to operate or stop the operation of a single or all ventilatorson a central control device in an area where several ventilators are installed.



Subsidiary materials for installation

Heat exchanger

This system offers very high heat exchange efficiency by using a highest quality heat exchanger.



Blower

A constant pressure/low noise blower with guaranteed durability is used.



Filter

Non-woven filter



Active carbon filter



Medium filter



Subsidiary materials for installation

Diffusers		 	 				
	Mini-diffuser	General type diffuser	Fan diffuser	Nozzle diffuser	Line diffuser		
Splitters							
	4-way splitter	6-way splitter		Backdraft damper	Fire damper	Motorized damper	Heater
Flexible duct hoses							
	ALflexible	ALflexible (insulated)	T/Pflexible			Sleeve	
Spiral ducts							
	Spiral duct	90°ELBOW	TEE	Y-T BRANCH	Y-B BRANCH		
PVC rectangular ducts							
	Rectangular duct	Coupling	Horizontal 90°elbow	Vertical 90°elbow	T-Piece	Rectangular reducer	Asymmetric reducer
Exterior finishing materials							
	Cap grille	Grille	Louver	Vent cap	Bilateral exterior cap	Bilateral exterior cap	



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