CLEAN AIR AUSTRALIA

HEAT & ENERGY RECOVERY VENTILATOR

Energy Recovery Ventilation Specialist

COMPANY

BRIEF INTRODUCTION TO COMPANY

Energy Recovery Ventilation Specialist

Clean Air Australia is dedicated to the research and technology development in the filed of indoor air quality. It is the leading company in the world who professionally produces heat recovery ventilation system.

Covering a land of 20000 square meters, Clean Air Australia was created in May, 2002 furnished with first-class plants and equipments. Through innovation, it developed its own key components like plate and rotary heat exchangers for various heat & energy recovery systems. It provides now full lines of products covering 5 series and 98 specifications which can basically satisfy the needs of various airflows and installations worldwidely.

Clean Air Australia is trusted by the users for its advanced technology, superb product quality and all-around services. By the end of year 2006, Clean Air Australia has supplied successfully to over 3000 customers in the domestic market and exported its products to Japan, Korea, Russia, Italy, Belgium, Cyprus, New Zealand, etc.

Let's join together to contribute to our commitment of energy saving and pollution reduction.

CONTENTS

BENEFITS

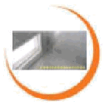
OF HEAT&ENERGY RECOVERY VENTILATION SYSTEM

Effective Ventilation

Introduces outdoor fresh air into indoors, meanwhile expels the indoor stale air to outdoor, which makes you feel the comfort of nature.

High efficient energy recovery

The built-in high efficient heat exchanger can recover the energy from outgoing indoor air to coming fresh air while ventilating. It can recover over 70% energy.



Perfect silence design

It is designed with the worldwide fashionable structure and manufactured by the accurate moldings. According to the principle of hydrokinetics, it achieves the perfect silent effect by using the micro-punch anechoic technology.

Air filtration and purification

The inner air filters are professionally designed to remove the pollutants of the incoming air, providing you the fresh and clean air.

By-pass function

By-pass function enables the unit to make natural ventilation in suitable climates, which can prolong the service life of the heat exchanger.

High airproof feature and easy maintenance

The heat exchanger is connected with the equipment by the in-mold rail, and embedded with the special soft and dense sealing materials. It can be drew out by hand and is easy to maintain. At the same time, it can ensure that the fresh air and exhaust air are completely separated, avoiding the cross pollution.

SELECTION GUIDE

1. Choose the proper installation types based on the building structure
2. Determine the fresh airflow required according to the use, size and number of persons
3. Select the right specifications and quantity according to the determined fresh airflow

Airflow required in residential buildings

Rooms type	Non-smoking					Slight smoking		Heavy Smoking
	Ordinary ward	Gym	Theater & mall	Office	Computer room	Dining room	VIP room	Meeting room
Personal fresh air consumption(m3/h) (Q)	17-42	8-20	8.5-21	25-62	40-100	20-50	30-75	50-125
Air changes per hour (P)	1.06-2.65	0.50-1.25	1.06-2.66	1.56-3.90	2.50-6.25	1.25-3.13	1.88-4.69	3.13-7.81

Example

The area of a computer room is 60 sq. meters (S=60), the net height is 3 meters (H=3), and there are 10 persons (N=10) in it.

If it is calculated according to "Personal fresh air consumption", and assume that: Q=70, the result is

Q1 =N*Q=10*70=700(m3/h)

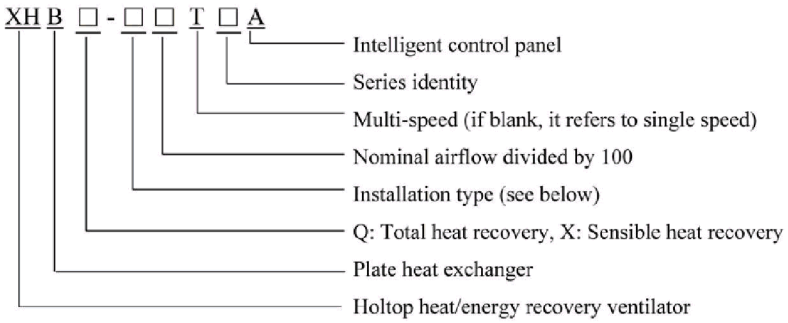
If it is calculated according to "Air changes per hour", and assume that: P=5, the result is

Q2 =P*S*H=5*60*3=900(m3)

Since Q2 > Q1 , Q2 is better for selecting the unit.

As to special industry such as hospitals (surgery and the special nursing rooms), labs, workshops, airflow required should be determined in conformity with regulations concerned.

Model description



Installation type

D-Suspended type, L-Floor type, W-Wall type (external or balcony), G-Wall type (internal or balcony)

Example

XHBQ-D10TP refers to suspended type ERV with total heat exchanger, TP series, airflow of 1000m^3/h, 3 speeds.

TP SERIES, SUSPENDED TYPE

XHBQ-D1.5P~D10TP

XHBQ-D15P~D20TP

Features

Airflow from 115-2000m3/h

Energy recovery

High efficient counter flow heat exchanger

3 speeds

Quiet operation

Double filters

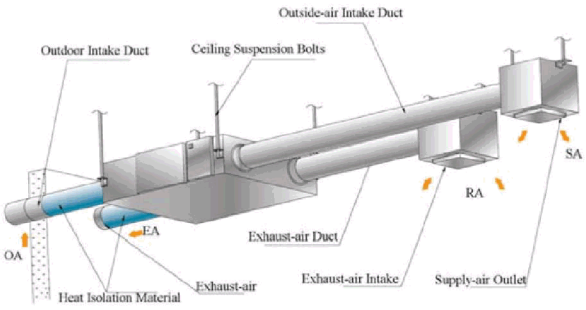
Easy installation to ceiling

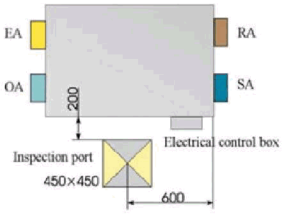
By-pass function

Application

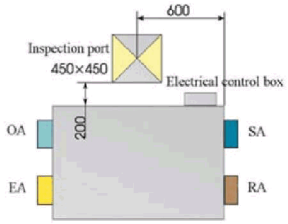
Suitable for household, meeting room, laboratory, office, computer room, dining and gym places etc.

Installation





Normal installation



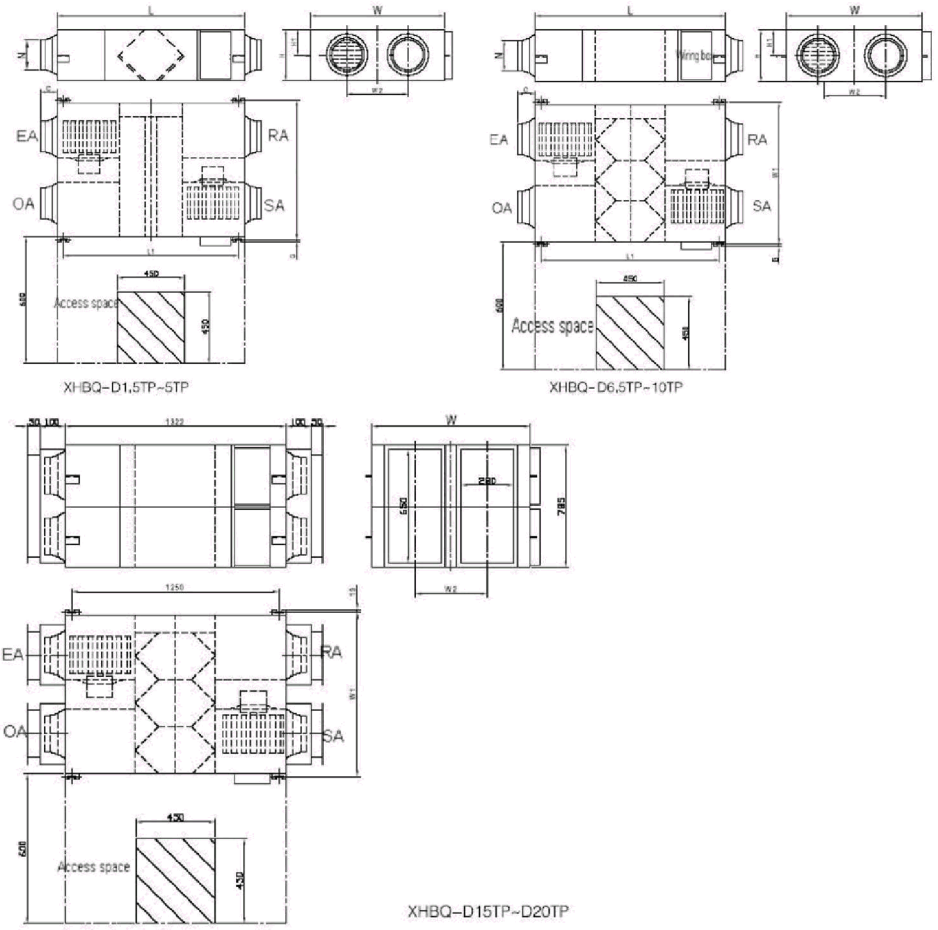
Inverted installation

Specifications

Model	Airflow（m3/h）			External pressure (Pa)			Enthalpy Efficiency (%)						Temp. Eff.(%)			Noise dB(A)			Volt. (V)	Cur-rent (A)	Rated power (W)	N. W. (Kg)
							Summer			Winter												
	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H				
XHBQ-D1.5TP	115	150	150	34	58	75	67	63	63	74	70	70	77	75	75	22	24	26	220	0.5	20	25
XHBQ-D2.5TP	165	250	250	30	70	85	67	63	63	73	70	70	77	75	75	22	26	27	220	0.56	40	29
XHBQ-D3.5TP	270	350	350	36	60	90	67	66	66	72	69	69	77	75	75	25	29	31	220	0.72	80	37
XHBQ-D5TP	360	500	500	30	60	100	68	62	62	72	67	67	78	75	75	25	31	33	220	0.96	120	43
XHBQ-D6.5TP	515	650	650	25	40	70	68	65	65	70	68	68	77	75	75	30	34	35	220	1.4	360	64
XHBQ-D8TP	625	800	800	60	98	120	68	65	65	74	71	71	77	75	75	32	36	38	220	1.7	360	71
XHBQ-D10TP	780	1000	1000	25	35	85	68	65	65	74	71	71	77	75	75	31	36	38	220	2.1	360	83
XHBQ-D15TP	1250	1500	1500	20	45	75	68	65	65	74	71	71	77	75	75	31	39	41	220	3.4	720	165
XHBQ-D20TP	1700	2000	2000	20	25	60	68	65	65	74	71	71	77	75	75	34	39	41	220	4.2	720	189

TP SERIES, SUSPENDED TYPE

Dimensions



Model	L	L1	W	W1	W2	H	H1	C	G	N
XHBQ-D1.5TP	808	867	580	510	290	264	20	100	19	Φ144
XHBQ-D2.5TP	882	810	599	657	315	270	111	100	19	Φ144
XHBQ-D3.5TP	882	810	804	860	480	270	111	100	19	Φ144
XHBQ-D5TP	962	890	904	960	500	270	111	107	19	Φ194
XHBQ-D6.5TP	1222	1150	884	940	480	340	146	107	19	Φ194
XHBQ-D8TP	1322	1250	884	940	428	388	170	85	19	Φ242
XHBQ-D10TP	1322	1250	1134	1190	678	388	170	85	19	Φ242
XHBQ-D15TP	1322	1250	884	940	428	785				
XHBQ-D20TP	1322	1250	1134	1190	678	785				

TH SERIES, SUSPENDED TYPE

XHBQ-D2TH~D13TH, XHBX-D2TH~D13TH

Features

Airflow from 150-1300m3/h

Heat or energy recovery

Quiet operation

Double filters

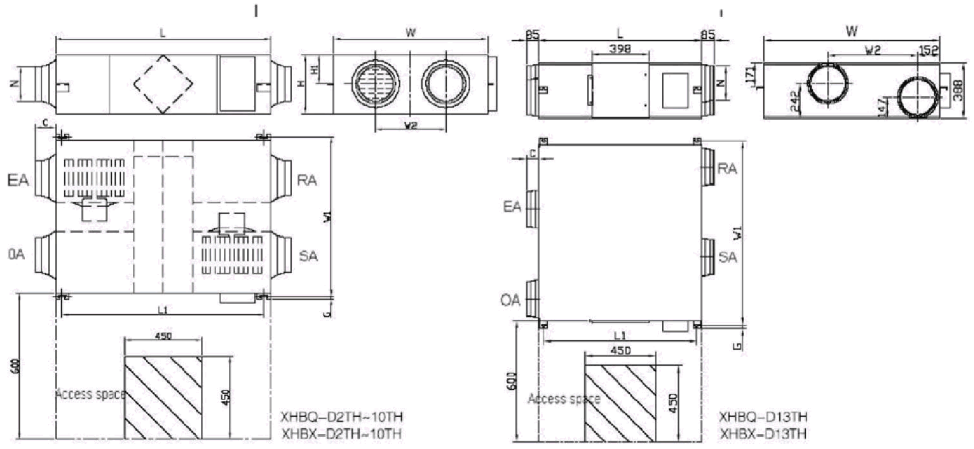
Easy installation to ceiling

By-pass function

Specifications

Model	Airflow（m3/h）			External pressure (Pa)			Enthalpy Efficiency (%)						Temp. Eff.(%)			Noise			Volt. (V)	Cur-rent (A)	Rated power (W)	N. W. (Kg)
							Summer			Winter												
	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H				
XHBQ-D2TH	150	200	200	60	70	75	60	55	55	63	59	59	75	70	70	22	25	27	220	0.5	20	23
XHBX-D2TH													77	72	72							24
XHBQ-D3TH	250	300	300	75	82	85	62	57	57	65	61	61	73	68	68	23	27	30	220	0.56	40	25
XHBX-D3TH													74	71	71							27
XHBQ-D4TH	350	400	400	80	85	88	62	57	57	65	60	60	74	69	69	25	29	32	220	0.72	80	31
XHBX-D4TH													76	70	70							33
XHBQ-D6TH	500	600	600	89	92	97	63	59	59	67	61	61	76	70	70	25	31	35	220	0.96	120	36
XHBX-D6TH													75	72	72							38
XHBQ-D8TH	700	800	800	92	96	100	57	55	55	63	57	57	74	68	68	32	37	39	220	1.7	360	60
XHBX-D8TH													77	70	70							62
XHBQ-D10TH	800	1000	1000	80	85	86	60	58	58	64	62	62	76	70	70	32	36	40	220	2.1	360	70
XHBX-D10TH													78	72	72							72
XHBQ-D13TH	1000	1300	1300	75	85	90	58	56	56	62	59	59	76	70	70	37	40	42	220	3.4	400	79
XHBX-D13TH													74	70	70							81

Dimensions



Model	L	L1	W	W1	W2	H	H1	C	G	N
XHBQ-D2TH, XHBX-D2TH	666	725	580	510	290	264	20	100	19	Φ144
XHBQ-D3TH, XHBX-D3TH	744	675	599	657	315	270	111	100	19	Φ144
XHBQ-D4TH, XHBX-D4TH	744	675	804	860	480	270	111	100	19	Φ144
XHBQ-D6TH, XHBX-D6TH	824	754	904	960	500	270	111	107	19	Φ194
XHBQ-D8TH, XHBX-D8TH	1116	1045	884	940	428	388	170	85	19	Φ242
XHBQ-D10TH, XHBX-D10TH	1116	1045	1134	1190	678	388	170	85	19	Φ242
XHBQ-D13TH, XHBX-D13TH	1129	1059	1216	1273	621	388		85	19	Φ242

TZ SERIES, SUSPENDED TYPE

XHBQ-D1.5TZ~D10TZ, XHBX-D1.5TZ~D10TZ

Features

Airflow from 100-1000m3/h

Heat and energy recovery

High ESP construction

Quiet operation

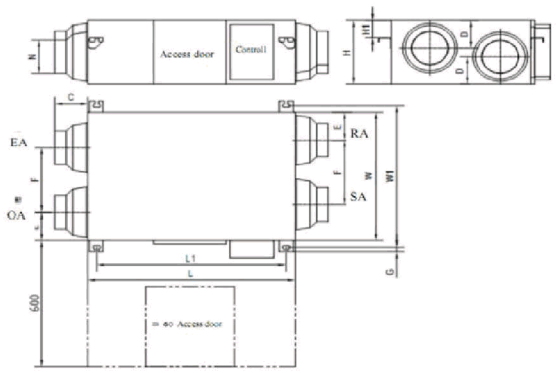
Double filters

Easy installation to ceiling

By-pass function

Specifications

Model	Airflow（m3/h）			External pressure (Pa)			Enthalpy Efficiency (%)						Temp. Eff.(%)			Noise			Volt. (V)	Cur-rent (A)	Rated power (W)	N. W. (Kg)
							Summer			Winter												
	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H				
XHBQ-D1.5TZ	100	150	150	49	69	80	64	60	60	65	62	62	75	72	72	21	25	27	220	0.52	60	28
XHBX-D1.5TZ													77	73	73							30
XHBQ-D2.5TZ	160	250	250	30	48	60	60	56	56	62	60	60	72	69	69	23	26	29	220	0.55	60	28
XHBX-D2.5TZ													73	70	70							30
XHBQ-D3.5TZ	230	350	350	90	100	120	65	61	61	66	63	63	76	73	73	24	29	32	220	0.85	180	40
XHBX-D3.5TZ													77	74	74							42
XHBQ-D5TZ	330	500	500	30	72	95	62	60	60	63	61	61	74	71	71	25	31	34	220	0.95	180	40
XHBX-D5TZ													74	72	72							42
XHBQ-D8TZ	680	800	800	120	125	170	58	55	55	64	57	57	75	68	68	31	37	39	220	2.8	400	60
XHBX-D8TZ													77	70	70							62
XHBQ-D10TZ	840	1000	1000	105	120	175	60	57	57	63	61	61	75	69	69	33	38	40	220	3.3	400	79
XHBX-D10TZ													76	71	71							81



Model	L	L1	W	W1	H	H1	N	C	D	E	F	G
XHBX(Q)-D1.5TZ	816	745	554	611	278	75	Φ96	145	120	122	278	21
XHBX(Q)-D2.5TZ	816	745	554	611	278	75	Φ146	130	120	122	278	21
XHBX(Q)-D3.5TZ	900	830	800	857	307	128	Φ146	130	126	140	415	21
XHBX(Q)-D5TZ	900	830	800	857	307	128	Φ196	85	126	140	415	21
XHBX(Q)-D8TZ	1126	1056	834	891	388	169	Φ242	86	157	152	436	21
XHBX(Q)-D10TZ	1129	1060	1216	1273	388	171	Φ242	86	147	152	621	21

MEDIUM AIRFLOW SERIES

XHBQ-D16TC~D20TC, XHBQ-D26C~D30C
XHBX-D16TC~D20TC, XHBX-D26C~D30C

XHBQ-D40C~D60C
XHBX-D40C~D60C

XHBQ-L16TC~L20TC, XHBQ-L26C~L60C
XHBX-L16TC~L20TC, XHBX-L26C~L60C

Features

Airflow from 1600-6000m3/h

Heat or energy recovery

Both suspended installation and floor installation available

Quiet operation

Double filters

Application

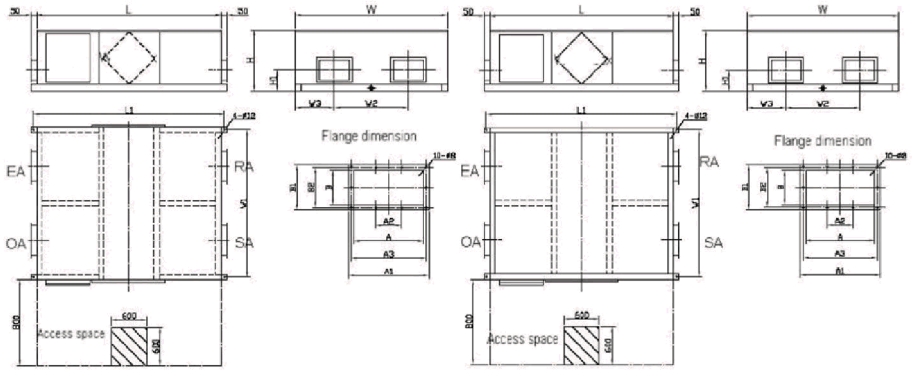
Suitable for meeting room, laboratory, office, computer room, dining room, indoor swimming pool, shop and gym places etc.

Specifications

Model	Airflow (m3/h)			External pressure (Pa)			Enthalpy Efficiency (%)						Temp. Eff. (%)			Noise			Volt. (V)	Current (A)	Rated power (W)	N. W. (Kg)
							Summer			Winter												
	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H				
XHBQ-D16TC	1000	1600	1600	84	135	163	69	66	66	74	70	70	74	71	71	40	42	45	220	6.6	640	115
XHBX-D16TC													76	74	74							120
XHBQ-L16TC	1000	1600	1600	84	135	163	69	66	66	74	70	70	74	71	71	40	42	45	220	6.6	640	128
XHBX-L16TC													76	74	74							133
XHBQ-D20TC	1200	2000	2000	110	132	176	65	62	62	69	63	63	74	71	71	44	46	49	220	7.4	750	120
XHBX-D20TC													74	72	72							125
XHBQ-L20TC	1200	2000	2000	110	132	176	65	62	62	69	63	63	74	71	71	44	46	49	220	7.4	750	136
XHBX-L20TC													74	72	72							141
XHBQ-D26C	2600			200			62			67			72			53			380	3.2	1100	200
XHBQ-L26C																						160
XHBX-D26C													74									207
XHBX-L26C																						167
XHBQ-D30C	3000			210			61			65			70			54			380	3.4	1100	240
XHBQ-L30C																						190
XHBX-D30C													73									250
XHBX-L30C																						200
XHBQ-D40C	4000			260			62			69			70			59			380	7.6	3000	330
XHBQ-L40C																						260
XHBX-D40C																						345
XHBX-L40C																						275
XHBQ-D50C	5000			260			61			64			70			68			380	11	4400	430
XHBQ-L50C																						340
XHBX-D50C													72									450
XHBX-L50C																						360
XHBQ-D60C	6000			300			60			62			68			70			380	14	6000	440
XHBQ-L60C																						350
XHBX-D60C													69									460
XHBX-L60C																						370

MEDIUM AIRFLOW SERIES

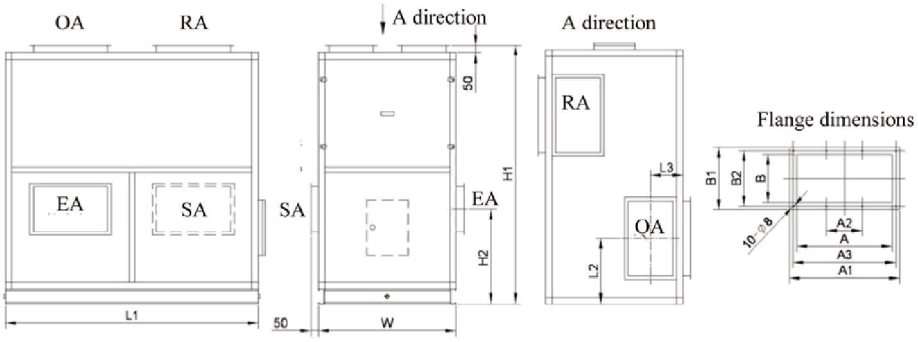
Dimensions



XHBQ-D16TC~D20TC XHBQ-D26C~D30C
XHBX-D16TC~D20TC XHBX-D26C~D30C

XHBQ-D40C~D60C
XHBX-D40C~D60C

Model	L	L1	W	W1	W2	W3	H	H1	A	A1	A2	A3	B	B1	B2
XHBQ-D16TC, XHBX-D16TC XHBQ-D20TC, XHBX-D20TC	1428	1476	1202	1170	600	270	476	282	320	370	120	345	250	300	275
XHBQ-D26C, XHBX-D26C	1550	1600	1400	1370	700		540	225	320	370	120	345	250	300	275
XHBQ-D30C, XHBX-D30C	1700	1750	1400	1370	700		610	225	320	370	120	345	250	300	275
XHBQ-D40C, XHBX-D40C	2000	2050	1400	1360	700		720	260	320	370	120	345	250	300	275
XHBQ-D50C, XHBX-D50C XHBQ-D60C, XHBX-D60C	2400	2450	1700	1660	830		860	305	500	550	175	525	300	350	325



XHBQ-L16TC~L20TC
XHBX-L16TC~L20TC

XHBQ-L26C~L60C
XHBX-L26C~L60C

Model	L1	L2	L3	W	H1	H2	A	A1	A2	A3	B	B1	B2
XHBQ-L16TC, XHBX-L16TC XHBQ-L20TC, XHBX-L20TC	1250	322.5	190	616	1220	427.5	320	370	120	345	250	300	275
XHBQ-L26C, XHBX-L26C	1450	373	190	616	1220	513	320	370	120	345	250	300	275
XHBQ-L30C, XHBX-L30C	1450	373	190	700	1305	473	320	370	120	345	250	300	275
XHBQ-L40C, XHBX-L40C	1400	360	190	785	1500	575	320	370	120	345	250	300	275
XHBQ-L50C, XHBX-L50C XHBQ-L60C, XHBX-L60C	1700	435	215	927	1730	633	500	550	175	525	300	350	325

LARGE AIRFLOW SERIES

XHBQ-L75C~L200C
XHBX-L75C~L200C

XHBQ-L300C
XHBX-L300C

Features

Airflow from 7500-30000m3/h

Installed on the floor or in machine room

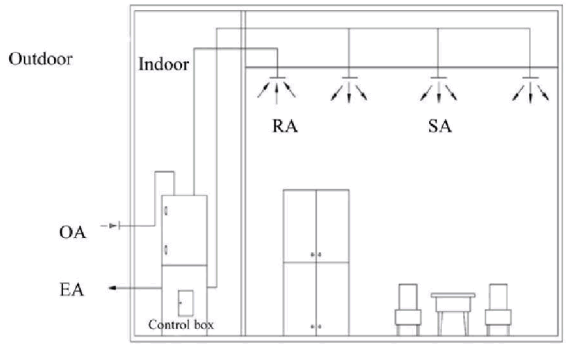
Double filters

Flexible and remote setting of control box

Application

Suitable for lab, classroom, computer room, conference room, open office, commercial building, hotel lobby, dining places etc.

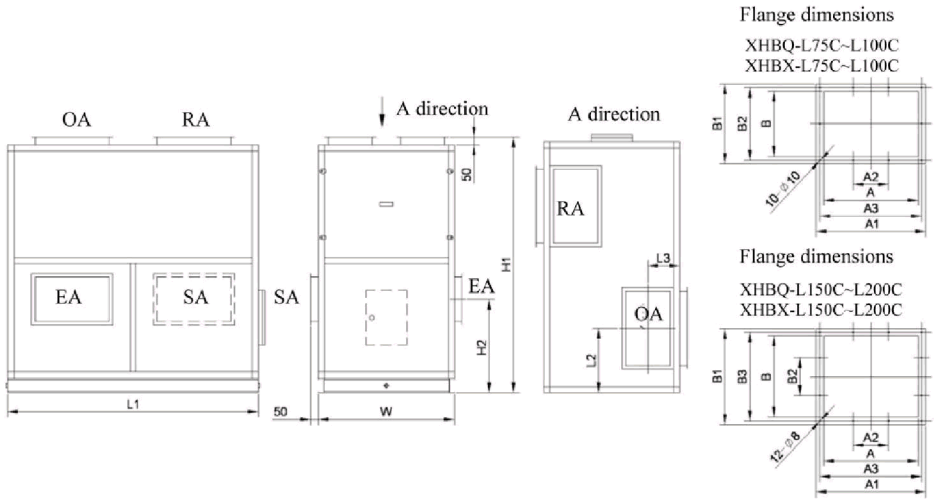
Installation demonstration



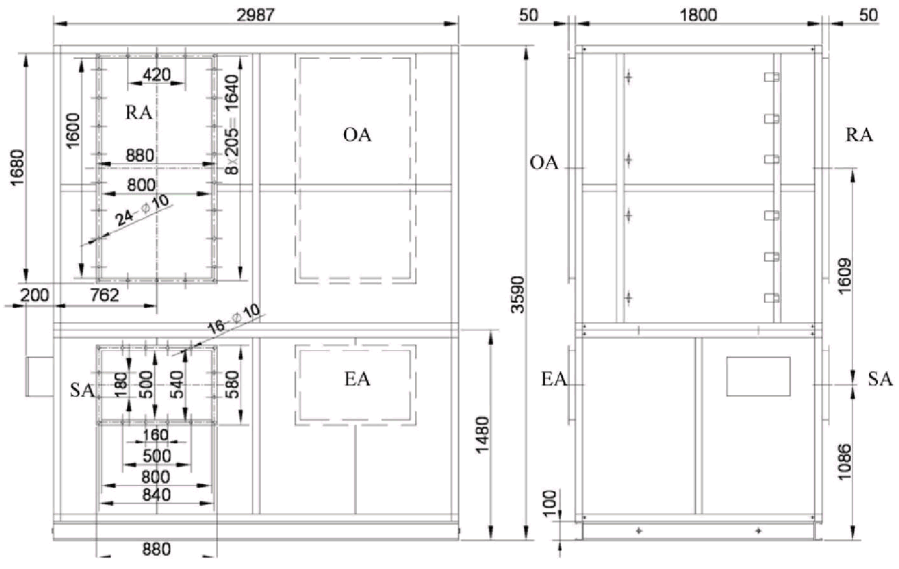
Specifications

Model	Airflow (m3/h)	External pressure (Pa)	Enthalpy Efficiency (%)		Temp. Eff. (%)	Noise dB(A)	Volt. (V)	Current (A)	Rated power (W)	N. W. (Kg)
			Summer	Winter						
XHBQ-L75C	7500	290	64	69	72	76	380	14	6000	470
XHBX-L75C					74					500
XHBQ-L100C	10000	340	63	69	72	80	380	24	11000	755
XHBX-L100C					73					800
XHBQ-L150C	15000	450	64	67	72	85	380	30.4	15000	1075
XHBX-L150C					75					1130
XHBQ-L200C	20000	600	62	68	72	88	380	45	22000	1310
XHBX-L200C					74					1380
XHBQ-L300C	30000	800	63	67	72	89	380	60	30000	2100
XHBX-L300C					74					2200

Dimensions



Model	L1	L2	L3	W	H1	H2	A	A1	A2	A3	B	B1	B2	B3
XHBQ-L75C, XHBX-L75C	1710	438	280	1181	2030	657	500	580	180	540	400	480	440	
XHBQ-L100C, XHBX-L100C	2125	541	280	1181	2150	653	630	710	220	670	400	480	440	
XHBQ-L150C, XHBX-L150C	2056	524	330	1394	2500	818	630	710	220	670	500	580	540	180
XHBQ-L200C, XHBX-L200C	2456	624	330	1500	2580	935	630	710	220	670	500	580	540	180



XHBQ-L300C, XHBX-L300C

WALL TYPE

XHBQ-W3TC~W10TC
XHBX-W3TC~W10TC

XHBQ-G3T
XHBX-G3T

Features

Airflow from 250-1000m3/h

Heat or energy recovery

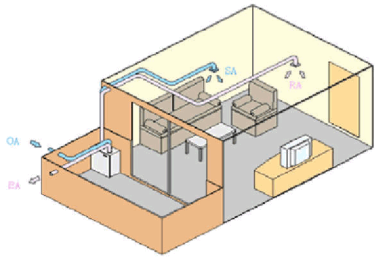
Easy installation to wall or balcony

Remote-controlled operation

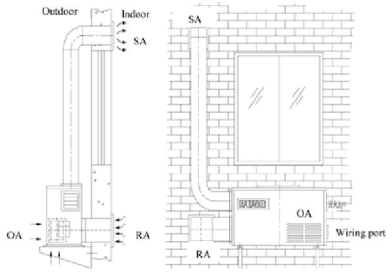
Application

Suitable for classroom, office, meeting room, computer room, dining places or lab etc.

Installation demonstration



XHBQ-G3T，XBHX-G3T



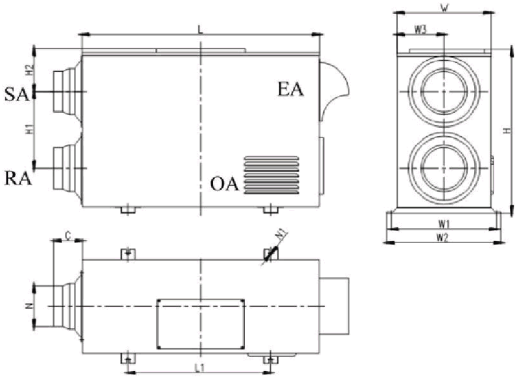
XHBQ-W3TC~W10TC，XHBX-W3TC~W10TC

Specifications

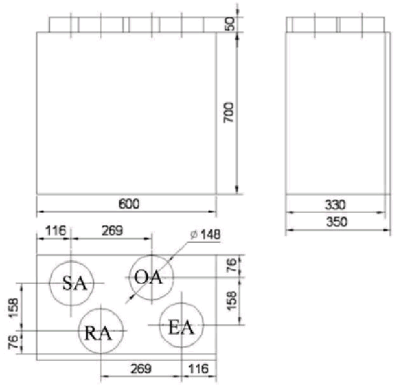
Model	Airflow（m3/h）			External pressure (Pa)			Enthalpy Efficiency (%)						Temp. Eff. (%)			Noise dB(A)			Volt. (V)	Current (A)	Rated power (W)	N. W. (Kg)
							Summer			Winter												
	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H				
XHBQ-W3TC	250	300	300	75	82	85	62	57	57	65	61	61	73	68	68	23	27	30	220	0.56	40	30
XHBX-W3TC													74	71	71							32
XHBQ-W4TC	350	400	400	80	85	88	62	57	57	65	60	60	74	69	69	25	29	32	220	0.72	80	38
XHBX-W4TC													76	70	70							40
XHBQ-W6TC	450	600	600	90	102	115	66	63	63	71	68	68	73	66	66	45	50	56	220	2.6	400	66
XHBX-W6TC													75	70	70							70
XHBQ-W8TC	500	800	800	71	85	90	67	64	64	73	69	69	72	70	70	45	49	54	220	3	400	71
XHBX-W8TC													75	72	72							75
XHBQ-W10TC	750	1000	1000	80	93	102	66	63	63	73	70	70	70	68	68	44	49	55	220	3.2	500	81
XHBX-W10TC													73	70	70							85
XHBQ-G3T	160	300	300	60	80	100	70	64	64	72	66	66	70	65	65	33	38	40	220	0.56	40	33
XHBX-G3T													72	68	68							35

WALL TYPE

Dimensions



XHBQ-W3TC~W10TC, XHBX-W3TC~W10TC



XHBQ-G3T, XHBX-G3T

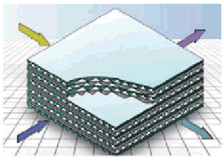
Model	L	L1	W	W1	W2	W3	H	H1	H2	N	N1	C
XHBQ-W3TC	835	500	330	355	395	143	575	255	259	144	10	100
XHBX-W3TC												
XHBQ-W4TC	835	500	350	385	415	163	711	325	159	144	10	100
XHBX-W4TC												
XHBQ-W6TC	955	630	450	485	515	202	630	300	157	194	10	106
XHBX-W6TC												
XHBQ-W8TC	1179	700	520	555	585	230	800	372	208	242	10	86
XHBX-W8TC												
XHBQ-W10TC	1179	700	520	555	585	230	800	372	208	242	10	86
XHBX-W10TC												

BRIEF INTRODUCTION TO HEAT EXCHANGER

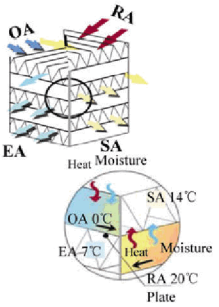
The plate heat exchanger is one of the air-to-air heat exchangers. The outdoor air and exhaust air are separated by the plates to ensure the air tightness while transferring the heat. It has no movement parts, so it's more reliable and has longer service life.

According to the airflow directions of the heat exchanger, it is categorized into crossflow type, counterflow type, and cross-counter flow type. According to heat recovery function of the heat exchanger, it is categorized into sensible heat and total heat type.

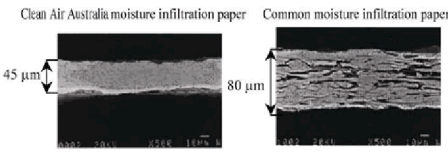
Clean Air Australia heat recovery ventilator is made of aluminum foil specially designed for air-to-air heat exchanger. The thickness of the aluminum foil is 0.05mm, while the thickness of other aluminum foils is 0.15mm, so it can conduct heat more efficiently. The separators and the corrugated fins are sealed by the special materials to maintain good thermal conductivity and air tightness.

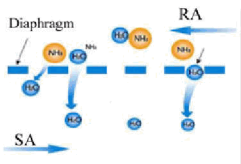


Total heat exchanger is made of ER paper which is featured by high moisture permeability, good air tightness, excellent tear resistance, and aging resistance. The clearance between the fibers is very small, so only the moisture molecules of small diameter can go through, the odor molecules of larger diameter are unable to pass through it. By this means, the temperature and humidity can be recovered smoothly, and prevent the pollutants infiltrating to the fresh air.

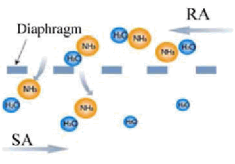


High-efficient counterflow plate total heat exchanger is also an energy recovery for direct air-to-air total heat exchange. Since the two airstreams flow counter and increase the heat exchanging area, it is more efficient than the crossflow heat exchanger and applied to the Clean Air Australia ventilators of high efficient series (TP series).





High efficient heat exchange materials



Conventional heat exchange materials

Gas molecules type	Carbon dioxide (CO_2)	Ammonia (NH_3)	Methane (CH_4)	Vapor (H_2O)	The clearance of fiber
Diameters (nm)	0.324	0.308	0.324	0.288	0.3 (for reference)

CONTROL SYSTEM

Standard control panel

◆ **HDK-08**

3 Speeds
Switch of normal ventilation and energy recovery
Indoor temperature measurement
Temperature value revision

Suitable models: XHBQ-D1.5TP~D20TP, XHBQ-D2TH~D13TH, XHBX-D2TH~D13TH, XHBQ-D1.5TZ~D10TZ, XHBX-D1.5TZ~D10TZ, XHBQ-W3TC~W10TC, XHBQ-G3T, XHBX-W3TC~W10TC, XHBX-G3T

◆ **HDK-09D**

Independent ON/OFF of supply and exhaust fan
Indoor temperature measurement
Temperature value revision

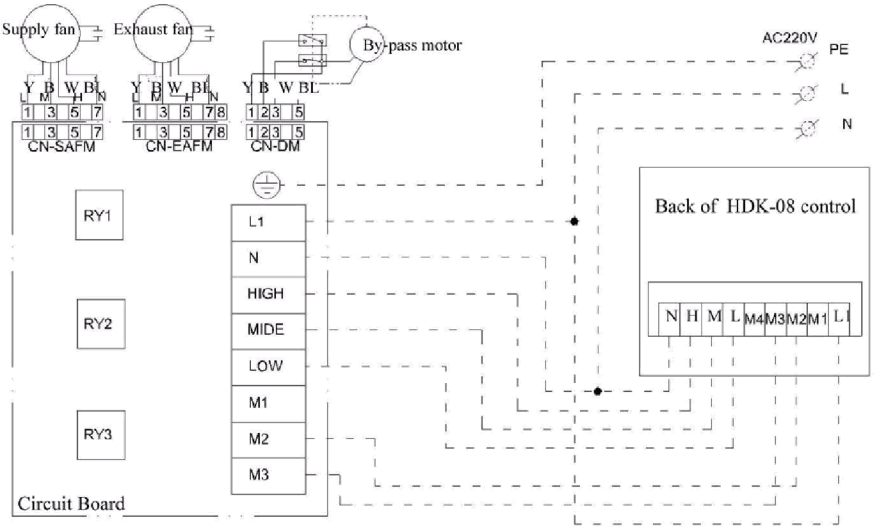
Suitable models: XHBQ-D26C~D60C, XHBX-D26C~D60C, XHBQ-L26C~L60C, XHBX-L26C~L60C

◆ **HDK-09S**

3 Speeds
Independent ON/OFF of supply and exhaust fan
Indoor temperature measurement
Temperature value revision

Suitable models: XHBQ-D16TC~D20TC, XHBQ-L16TC~L20TC, XHBX-D16TC~D20TC, XHBX-L16TC~L20TC

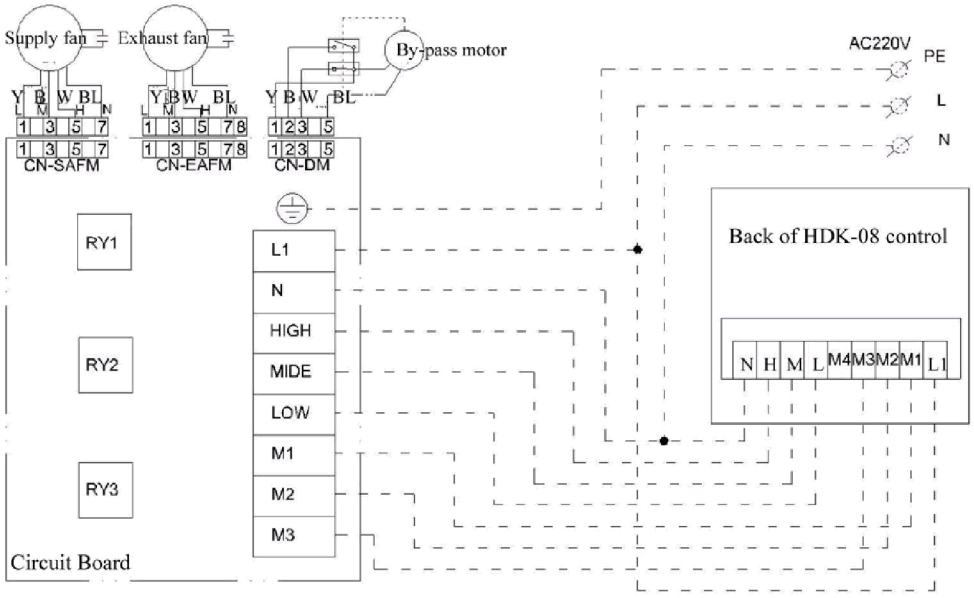
Control Circuit



The wiring of the broken lines should be operated by the constructor in installation

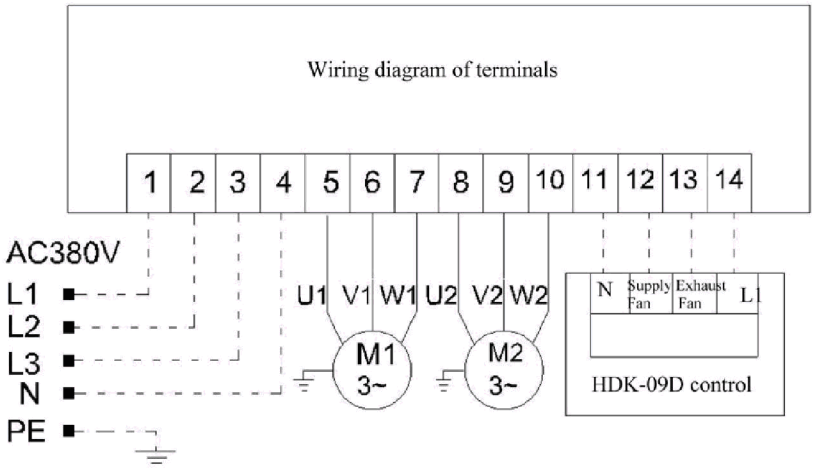
Suitable models:
XHBQ-D1.5TP~D5TP, XHBQ-D2TH~D6TH, XHBX-D2TH~D6TH, XHBQ-D1.5TZ~D5TZ, XHBX-D1.5TZ~D5TZ

CONTROL SYSTEM



The wiring of the broken lines should be operated by the constructor in installation

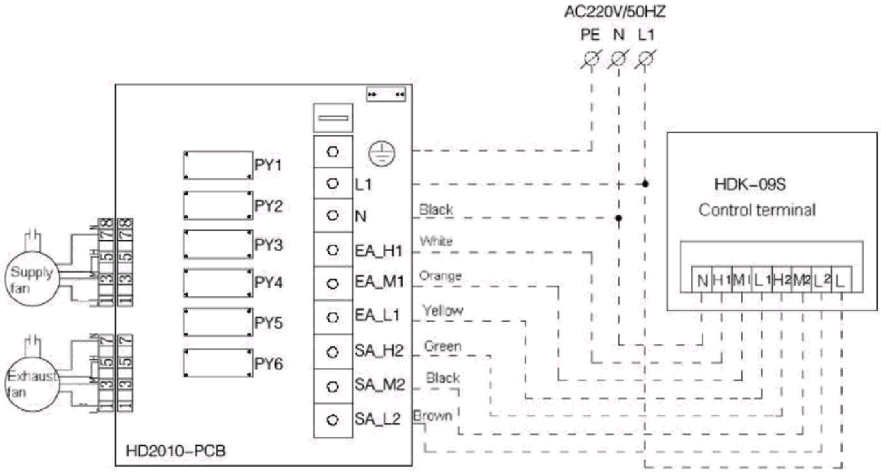
Suitable model:
XHBQ-D6.5TP~D10TP, XHBQ-D8TH~D13TH, XHBX-D8TH~D13TH



The wiring of the broken lines should be operated by the constructor in installation

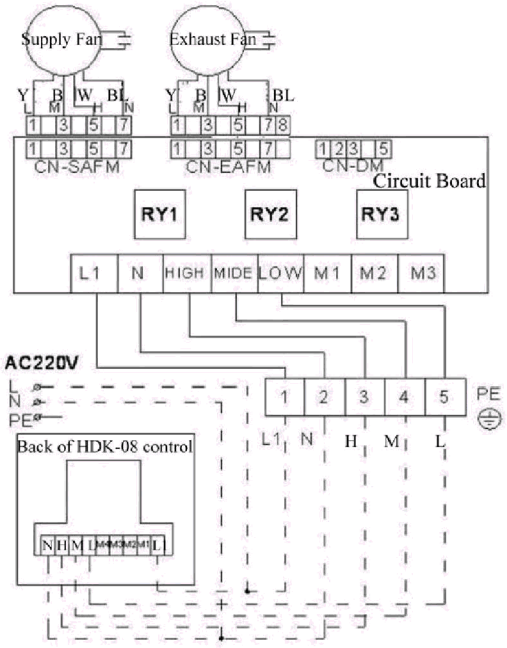
Suitable model:
XHBQ-D26C~D60C, XHBX-D26C~D60C
XHBQ-L26C~L60C, XHBX-L26C~L60C

CONTROL SYSTEM



The wiring of the broken lines should be operated by the constructor in installation

Suitable model:
XHBQ-D16TC~D20TC, XHBQ-L16TC~L20TC
XHBX-D16TC~D20TC, XHBX-L16TC~L20TC

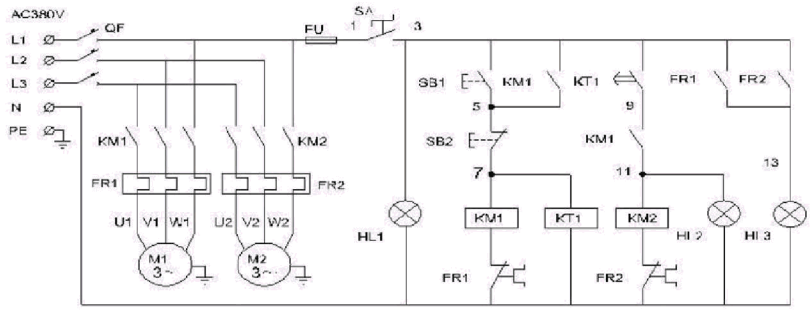


The wiring of the broken lines should be operated by the constructor in installation

Suitable model:
XHBQ-W3TC~W10TC, XHBQ-G3T
XHBX-W3TC~W10TC, XHBX-G3T

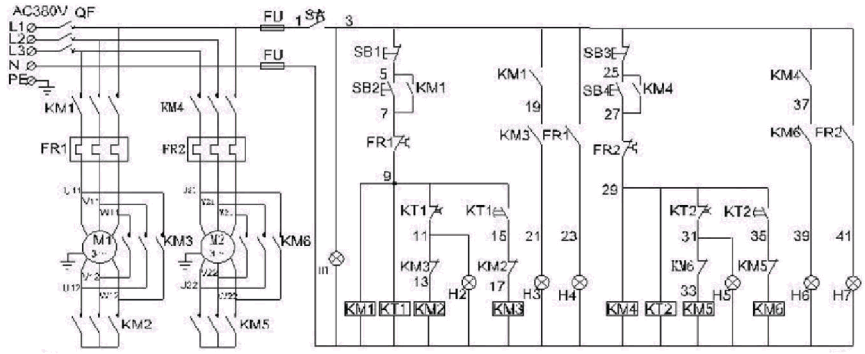
CONTROL SYSTEM

Connect to power	Air switch	Supply fan primary loop	Exhaust fan primary loop	Fuse	Switch	Power indicator	Control loop - start/stop				Fault alarm
							Supply air start	Time-lapse	Exhaust air start	Running indicator	



Suitable model:
XHBQ-L75C~L200C XHBX-L75C~L200C

Connect to power	Air Switch	Supply fan primary loop	Exhaust fan primary loop	Fuse	Switch	Power indicator	Supply fan control circuit					Exhaust fan control circuit				
							Man-ual	Star-type	Trian-gle-type	Run-ning	Fault alarm	Man-ual	Star-type	Trian-gle-type	Running	Fault alarm



Suitable model: XHBQ-L300C, XHBX-L300C

CONTROL SYSTEM

Intelligent control panel

Functions

- **Temperature display**

Selected display for room air, outdoor air, exhaust air and supply air temperature

- **Airflow adjustment**

Threes speeds
Fan can stop individually

- **Weekly timer**

From Monday to Sunday
Two periods per day
Override setting

- **Data memory**

Restart when power resume, running status memory.

- **Smart alarm**

Defrost (flickering alarm)
Frost (flickering alarm)
Filter jam (flickering alarm)

- **Automatic bypass**

Bypass opens automatically when the outdoor air temperature stays in the setting temperature range, the opening temperature can be set.

- **Electrical heater**

Reserved port for connect external electrical heating box, temperature can be set with this function

- **Defrosting**

Automatically defrosting, the defrosting temperature and defrosting interval can be set.

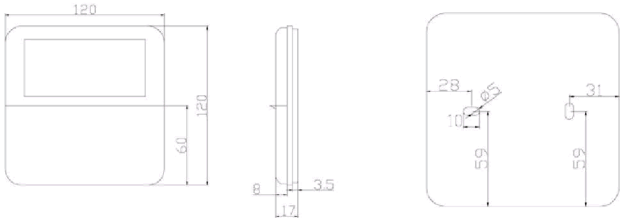
- **External ON/OFF**

Reserved port to connect to the central controlling system

- **CO2 concentration control***

Reserved port for connect CO2 concentration detecting device, the unit runs at high speed when receiving signal

Dimensions



LCD display screen

CLEAN AIR AUSTRALIA

HEAT & ENERGY RECOVERY VENTILATOR

Energy Recovery Ventilation Specialist

Coolair Australia (Cyprus) Ltd Giannou Kranidioti 200 Latsia Industrial area, zip 2235
Energy Recovery Ventilation Specialist
Tel. 357 22 488731-2, Sales Engineer 96 589249
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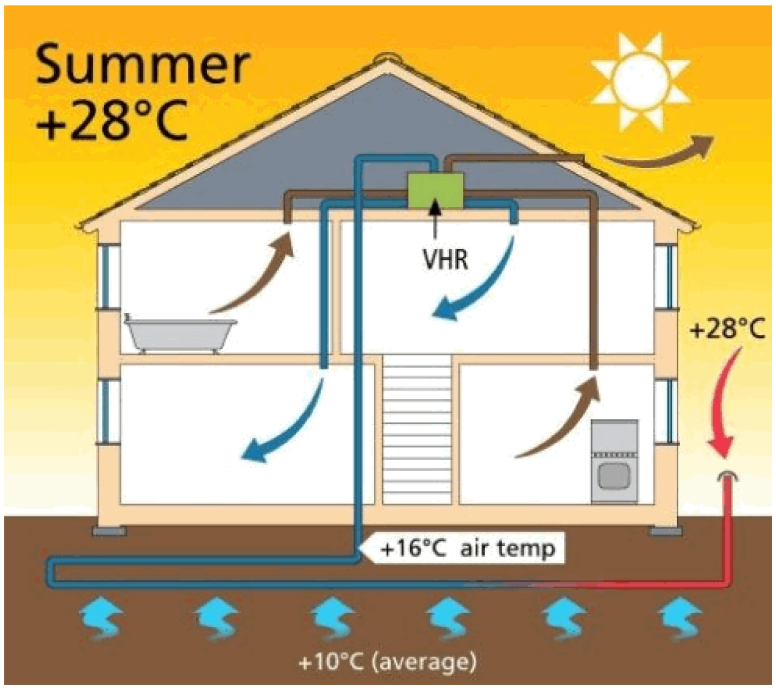
New innovative solution for precooling the fresh air stream of the HRV ventilation system and really make the most of your natural surroundings to **SAVE YOU ENERGY & MONEY on your air-condition bill**.



A ground to air heat exchanger significantly reduces your heating and cooling bills as well as providing long-term environmental benefits.
It does this by exploiting the natural temperature of the ground to provide a cost effective source of renewable energy. At a depth of 1.5 to 2m, the earth's temperature is a constant 8-12˚C throughout the year.

By drawing air through an underground network of pipes, it is either pre-heated by the ground in winter or pre-cooled in summer. In combination with our VHR unit this significantly reduces the heating and cooling costs of a building. The underground connecting pipe is made of polypropylene and comes complete with a unique integrated antimicrobial layer, made of silver particles. This prevents microbial growth on the inside of the pipe, which would otherwise cause musty smells. The air inlet also has a dust and pollen filter, further benefiting allergy sufferers.
There is no mixing of air streams. During winter, the system is able to capture over 90% of the energy from the outgoing stale air before delivering it as warm filtered, preconditioned air into the living areas of the property through the ducting.

For more info or design services for your ventilation system you can conduct our sales engineers at info@coolairaustralia.com for your free consultation.