

XHQ/XHX 200D ÷ 7000D

Air flow: from 200 to 7000 m³/h



The needs to reduce to the minimum the costs of heating and cooling systems with external air is increasing.

The heat recovery ventilator perfectly merges with the needs for comfort and energy-saving.

These units allow to extract certain amount of exhaust air from the room and supply an equivalent quantity of fresh air. A cross flow air to air plate exchanger assures an efficient heat recovery between exhaust and fresh air, therefore the fresh air is pre-heated or pre-cooled according to the seasons in order to recover over more than 50% of the energy that would normally be lost with the exhaust air expulsion.

The supply air is filtered before entering the heat recovery exchanger that is protected with a plate filter also at the exhaust air side.

The heat recovery ventilators can be used to integrate traditional systems made up of fan coils, air conditioning units or radiators. They can operate both in summer and winter.

FEATURES

CASING

Panels and frame are made of galvanized steel, protected with polyester powder painting to ensure total resistance to atmospheric agents. Panel thermal and acoustic insulation by means of polyethylene panels with a thickness of 10 mm.

RECOVERY

High efficiency cross flow air to air paper plate type total heat recuperators or aluminum plate type sensible heat recuperators.

FILTER

G3 efficiency air filters, which may be easily removed from the sides for periodic cleaning.

FAN DECK

Fan bodies mounted on rubber anti-vibrators.
External rotor type double suction centrifugal fans which may be removed from the sides for periodic maintenance.
Three speed fans for mod. 200D÷1300D.

CONDENSATION DRAIN TRAY

Galvanized steel condensation collection tray, with condensation drainage towards the lower part.

OPTIONAL

- **CW:** Separate module with 4-row water cooling coil.
- **CPW:** Separate module with 4-row water cooling coil and 1-row water post-heating coil.
- **CPE:** Separate module with 4-row water cooling coil and electric post-heating coil.
- **CL:** Connection line for controller in customized length.

NOMENCLATURE

XH X 200 D
 ① ② ③ ④

① Heat recovery ventilator

② Heat recovery type
 Q: total heat recovery
 X: sensible heat recovery

③ Size

④ Ceiling mounted type

TECHNICAL DATA

MODEL XHQ(X)		200D	300D	500D	800D	1000D	1300D
Air flow rate [m ³ /h]	H	200	300	500	800	1000	1300
	M	150	170	400	600	750	1000
	L	100	150	200	500	500	700
External static pressure [Pa]	H	70	70	80	110	110	110
	M	55	55	65	90	90	90
	L	45	45	50	70	70	70
Recuperator efficiency *							
Total heat recovery	%	74	74	75	75	75	75
Sensible heat recovery	%	67	67	68	68	68	68
Fan deck							
N° of fan motors	Nr.	2	2	2	2	2	2
Motor power	kW	0.055x2	0.06x2	0.08x2	0.25x2	0.25x2	0.25x2
Power supply	/	220V/1Ph/50Hz					
Sound pressure level **	dB(A)	38	39	44	48	48	48
Net weight (XHQ/XHX)	kg	30/31	30/31	36/37	94/95	94/95	94/95

MODEL XHQ(X)		1500D	1800D	2000D	2500D	3000D	3500D
Air flow rate	m ³ /h	1500	1800	2000	2500	3000	3500
External static pressure	Pa	130	130	200	200	200	220
Recuperator efficiency *							
Total heat recovery	%	79	79	79	79	79	78
Sensible heat recovery	%	72	72	72	72	72	71
Fan deck							
N° of fan motors	Nr.	2	2	2	2	2	2
Motor power	kW	0.84x2	0.84x2	1.45x2	1.45x2	2.1x2	2.1x2
Power supply	/	380V/3N/50Hz					
Sound pressure level **	dB(A)	49	49	58	58	59	60
Net weight (XHQ/XHX)	kg	113/116	113/116	169/173	169/173	191/197	217/225

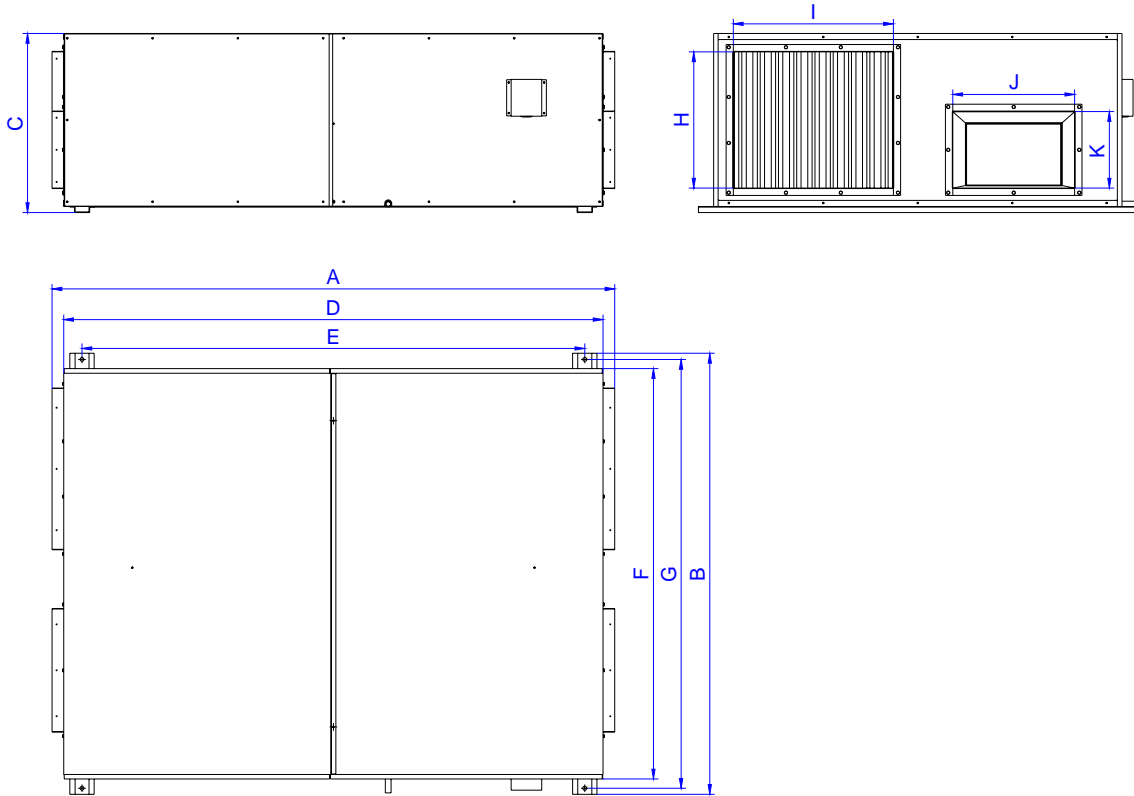
MODEL XHQ(X)		4000D	4500D	5000D	5500D	6000D	6500D	7000D
Air flow rate	m ³ /h	4000	4500	5000	5500	6000	6500	7000
External static pressure	Pa	260	300	300	300	300	300	300
Recuperator efficiency *								
Total heat recovery	%	77	77	77	77	76	76	76
Sensible heat recovery	%	70	70	70	70	69	69	69
Fan deck								
N° of fan motors	Nr.	2	2	2	2	2	2	2
Motor power	kW	0.8x2	1.1x2	1.5x2	1.5x2	3.0x2	3.0x2	3.0x2
Power supply	/	380V/3N/50Hz						
Sound pressure level **	dB(A)	61	61	62	62	63	63	63
Net weight (XHQ/XHX)	kg	223/232	239/248	269/280	274/285	335/347	335/347	335/347

* Performance values refer to the following conditions:

- Fresh air volume equal to discharge air volume
- Room air temperature 22 °C 50% RH, ambient air temperature -4 °C 45% RH.

** Noise level measured by adopting average value in the noise lab with background noise of 25 dB(A), at a distance of 1.5m high fan speed.

OVERALL DIMENSIONS



MODEL	A	B	C	D	E	F	G	H	I	J	K
XHQ(X)200D	717	730	263	660	560	630	690	145	235	100	71
XHQ(X)300D	717	730	263	660	560	630	690	145	235	100	91
XHQ(X)500D	787	870	273	730	630	770	830	160	300	180	100
XHQ(X)800D	1207	1130	433	1130	1010	1030	1090	300	340	350	200
XHQ(X)1000D	1207	1130	433	1130	1010	1030	1090	300	340	350	200
XHQ(X)1300D	1207	1130	433	1130	1010	1030	1090	300	340	350	200
XHQ(X)1500D	1337	1130	473	1260	1140	1030	1090	340	340	350	200
XHQ(X)1800D	1337	1130	473	1260	1140	1030	1090	340	340	350	200
XHQ(X)2000D	1577	1390	505	1500	1380	1290	1350	365	525	350	200
XHQ(X)2500D	1577	1390	505	1500	1380	1290	1350	365	525	350	200
XHQ(X)3000D	1657	1440	555	1580	1460	1340	1400	415	525	400	200
XHQ(X)3500D	1847	1440	585	1770	1650	1340	1400	445	525	400	250
XHQ(X)4000D	1907	1440	585	1830	1710	1340	1400	445	525	400	250
XHQ(X)4500D	1907	1440	585	1830	1710	1340	1400	445	525	450	250
XHQ(X)5000D	2077	1560	585	2000	1880	1460	1520	445	580	450	250
XHQ(X)5500D	2077	1650	585	2000	1880	1550	1610	445	580	450	250
XHQ(X)6000D	2123	1650	615	2046	1926	1550	1610	475	580	450	300
XHQ(X)6500D	2123	1650	615	2046	1926	1550	1610	475	580	450	300
XHQ(X)7000D	2123	1650	615	2046	1926	1550	1610	475	580	450	300

The technical data in this document are not binding. Bright A/C reserves the right to make whatever modifications it deems necessary to improve the product at any time.

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