

AIR-AIR ENERGY CONSERVATION MODULE

BC-ECW SERIES

**INDOOR/OUTDOOR
INSTALLATION**



SPECIFICATIONS MANUAL



MANUFACTURED BY

BOUSQUET

TECHNOLOGIES inc.

TABLE OF CONTENTS

BC-ECW - Description	3
Components and fabrication details	3-4
Frost prevention & selection data	4
Capacities (CFM)	5
Capacities (Litres/sec.)	6
Dimension drawing.....	7
Dimensions	8
Roof curbs	9
Typical wiring diagram	10
Standard & optional components.....	11
Typical specification.....	12-13

BC-ECW - AIR-AIR ENERGY CONSERVATION MODULE

DESCRIPTION

The BC-ECW manufactured by Bousquet is an air to air energy conservation module, CSA certified, and designed to transfer both sensible and latent heat from exhaust air to fresh air, using a rotating heat exchanger. Compact and easy to maintain, these modules include a heat transfer wheel, exhaust and supply fans, filters for both air flow, shut off dampers as well as intake and exhaust hoods. Capacity ranges between 1,500 and 30,000 CFM (700 and 14,000 litres/sec.), with a recovery efficiency between 60 to 80%.

Here are some of the advantages resulting from the installation of a ventilation system using a heat recovery wheel:

- Improved air quality providing higher level of comfort to occupants which contributes to a higher competitiveness and less absenteeism
- Capital cost reduction due to smaller boilers and chillers
- Reduced energy consumption and operating cost
- Protection of the environment
- Sensible and latent energy recuperation for both heating and cooling seasons

COMPONENTS & FABRICATION DETAILS

The **energy exchangers** are a rotating wheel certified ARI 1060, constructed of synthetic fibre-based media impregnated with a non-migrating water selective molecular sieve desiccant uniformly and permanently dispersed throughout the matrix structure in contrast of being coated, bonded or synthesized onto the matrix, and thus not susceptible to delamination or erosion of the desiccant material, and completely water washable. The wheel is mounted in a cassette made of heavy gauge galvanized steel, with removable access panels, rotor bearings, tangential belt entrainment, adjustable purge sector, full contact brush seals in periphery and at air flow separation, and VFD speed control to prevent frost formation.

Each module is equipped with 2 **centrifugal fans**, one for the air exhaust and one for the air supply, with forward curved wheel (FC), dynamically & statically balanced, ODP electric motors, belts and pulleys entrainment and rubber pads vibration isolators. When this module is installed upstream of a make-up air heater equipped with a fan having sufficient capacity, the module may be supplied without the supply fan.

Two **filter** banks are located upstream of the heat recovery wheel in both airstreams. The filters medias are large surface, 2 inches thick, pleated throw away type, having a filtration efficiency of 30%. Filter banks are sized for velocity less than 500 FPM.

The **air intake** includes a horizontal hood with bird screen and a motorized on-off damper with electric actuator and switch.

The **air exhaust** includes a back draft damper, an exhaust hood oriented to throw the exhausted air away from the fresh air intake, and a bird screen.

The base structure of the module is made of welded structural U-shaped channel and protected against corrosion. The walls and roof are made of 18 gauge satin finish steel panels, maximum 20" wide, with double folded edges for superior structural rigidity, 2 inches thick fiber glass insulation, and 22 gauge G90 galvanized steel liner. The outer surfaces are treated with a phosphate cleaner-conditioner and covered with an anticorrosive epoxy primer exceeding the Canadian (type 1-GP-40) and American (type TT-P-636 D) standards for salt mist and humidity. The finish is ensured with first quality high performance alkyd resin enamel.

All electrical components and controls required for the operation of the energy conservation module are factory pre-wired and include a main circuit breaker, fans magnetic contactors, control transformer and frost protection control.

FROST PREVENTION

During extremely cold winter time conditions, frost formation becomes a possibility in the exhaust air stream. Frost formation on wheel will basically act to plug or reduce air flow but will not hurt the wheel itself.

In practice, there are several ways to prevent frost formation. The standard Bousquet Energy Conservation modules are equipped with variable frequency drive (VFD) and adjustable temperature controller located in the exhaust air stream. During very cold periods, wheel rotation will be reduced to maintain exhaust air temperature above its dew point and thus avoid frosting. Caution ! During these periods, heat recovery is reduced.

SELECTION DATA

To size the recuperator, the following data are required for both air flow:

* Air flow :	CFM (l/sec.)
* Wheel entering air temperature :	°F (°C)
* ESP - External static pressure :	Inches of water (mm)
* Desired recovery efficiency :	%
* Humidity	% RH

The heat recovery wheel is the AIR-AIR energy recuperator having the highest efficiency. BC-ECW modules are designed for an efficiency of 70%, during periods where the weather conditions are not favorable to frost formation. For better efficiency, consult the manufacturer.

CAPACITIES - CFM

Model No	Fan size	Air flow CFM	Efficiency %	Internal P.D. (inch)	External Static Pressure (ESP)* Motors (HP)**						
					0"	1/4"	1/2"	3/4"	1"	1 1/4"	1 1/2"
BC-ECW-25-324	9-9	1500	73%	1.4	1	1	1	1.5	1.5	1.5	1.5
BC-ECW-25-364	10-10	2000	72%	1.4	1.5	1.5	1.5	2	2	2	3
BC-ECW-25-424	10-10	3000	70%	1.5	2	3	3	3	3	3	5
BC-ECW-50-424	12-12	3000	70%	1.5	1.5	2	2	3	3	3	3
BC-ECW-50-486	12-12	4000	77%	1.8	3	3	5	5	5	5	5
BC-ECW-50-544	12-12	5000	70%	1.5	5	5	5	5	5	5	7.5
BC-ECW-75-486	15-15	4000	77%	1.8	3	3	3	5	5	5	5
BC-ECW-75-544	15-15	5000	70%	1.5	3	3	5	5	5	5	5
BC-ECW-75-604	15-15	6000	71%	1.5	5	5	5	5	5	7.5	7.5
BC-ECW-75-664	15-15	7000	72%	1.4	5	7.5	7.5	7.5	7.5	7.5	7.5
BC-ECW-100-604	18-18	6000	71%	1.5	3	3	5	5	5	5	7.5
BC-ECW-100-664	18-18	7500	70%	1.5	5	5	5	5	7.5	7.5	7.5
BC-ECW-100-724	18-18	9500	69%	1.5	7.5	7.5	7.5	10	10	10	10
BC-ECW-100-784	18-18	10000	71%	1.4	7.5	7.5	10	10	10	10	10
BC-ECW-150-724	20-20	9500	69%	1.5	5	7.5	7.5	7.5	7.5	10	10
BC-ECW-150-786	20-20	11000	78%	1.8	7.5	7.5	7.5	10	10	10	15
BC-ECW-150-844	20-20	13000	68%	1.5	7.5	10	10	10	15	15	15
BC-ECW-150-846	20-20	15000	74%	1.9	15	15	15	15	15	20	20
BC-ECW-200-846	25-25	15000	74%	1.9	10	10	15	15	15	15	15
BC-ECW-200-906	25-25	17500	74%	2.0	15	15	15	15	15	20	20
BC-ECW-200-966	25-25	20000	74%	2.0	15	15	20	20	20	20	20
BC-ECW-200-1026	25-25	22500	74%	2.0	20	20	20	20	25	25	25
BC-ECW-200-1086	25-25	25000	74%	1.9	20	25	2	25	25	30	30
BC-ECW-300-966	28-28	20000	74%	2.0	15	15	15	20	20	20	20
BC-ECW-300-1026	28-28	22500	74%	2.0	15	20	20	20	25	25	25
BC-ECW-300-1086	28-28	25000	74%	1.9	20	25	25	25	25	30	30
BC-ECW-300-1206	28-28	30000	75%	1.9	25	25	25	30	30	30	40

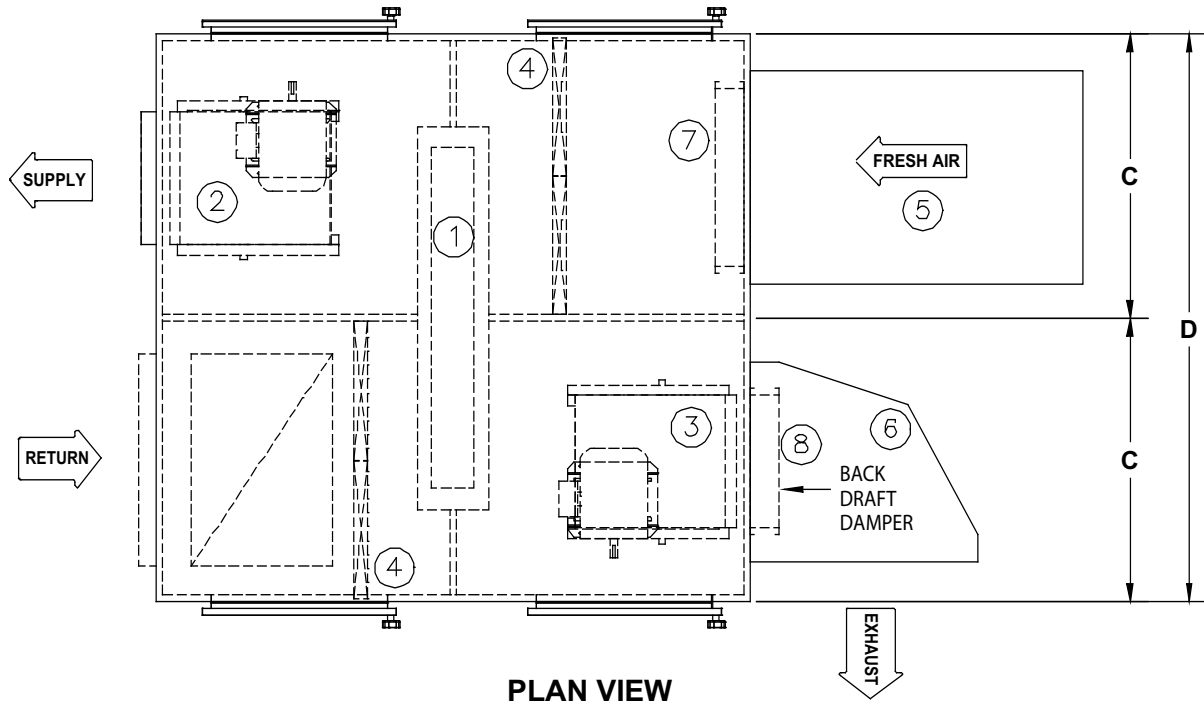
1. *ESP: System pressure drop external to the recovery module.
2. **HP: Fan HP is for modules with standard components only. For optional components consult the manufacturer.
3. The internal static pressure shown is the sum of all the module's internal components, which are:
intake hood, bird screen, damper, filters, and the recuperator.
4. For higher capacities, please consult the manufacturer.

CAPACITIES - LITRES/SEC.

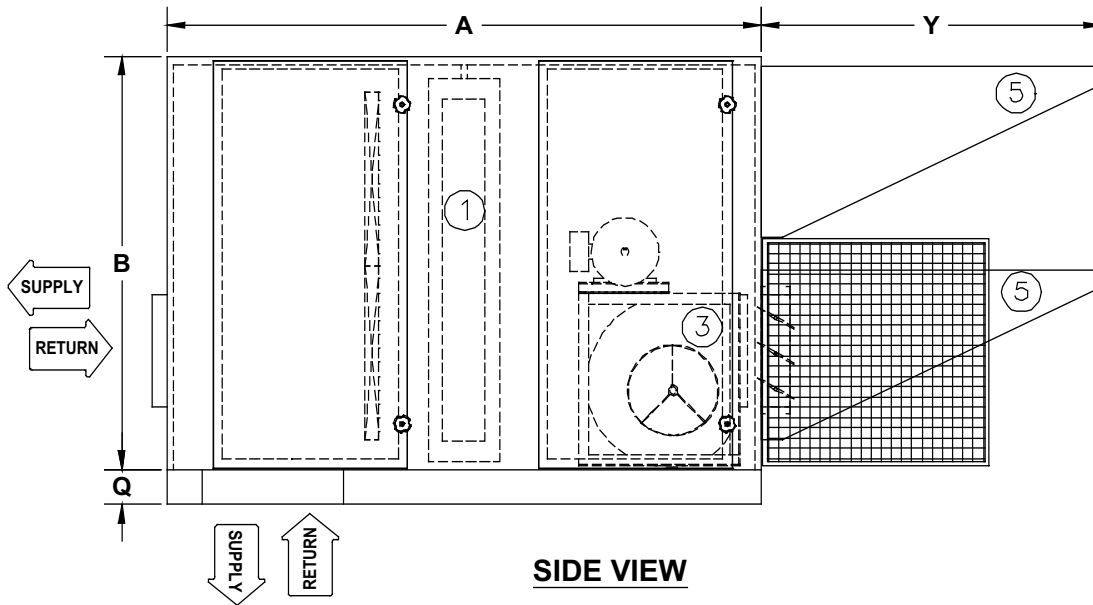
Model No	Fan size	Air flow Litres/sec.	Efficiency %	P.S. Internal (Pa)	External Static Pressure (ESP)* Motors (KW)**						
					0	62	125	187	250	300	375
BC-ECW-25-324	9-9	708	73%	339	0,7	0,7	0,7	1,1	1,1	1,1	1,1
BC-ECW-25-364	10-10	944	72%	349	1,1	1,1	1,1	1,5	1,5	1,5	2,2
BC-ECW-25-424	10-10	1416	70%	366	1,5	2,2	2,2	2,2	2,2	2,2	3,7
BC-ECW-50-424	12-12	1416	70%	366	1,1	1,5	1,5	2,2	2,2	2,2	2,2
BC-ECW-50-486	12-12	1888	77%	441	2,2	2,2	3,7	3,7	3,7	3,7	3,7
BC-ECW-50-544	12-12	2360	70%	366	3,7	3,7	3,7	3,7	3,7	3,7	5,6
BC-ECW-75-486	15-15	1888	77%	441	2,2	2,2	2,2	3,7	3,7	3,7	3,7
BC-ECW-75-544	15-15	2360	70%	366	2,2	2,2	3,7	3,7	3,7	3,7	3,7
BC-ECW-75-604	15-15	2832	71%	361	3,7	3,7	3,7	3,7	3,7	5,6	5,6
BC-ECW-75-664	15-15	3304	72%	354	3,7	5,6	5,6	5,6	5,6	5,6	5,6
BC-ECW-100-604	18-18	2832	71%	361	2,2	2,2	3,7	3,7	3,7	3,7	5,6
BC-ECW-100-664	18-18	3540	70%	366	3,7	3,7	3,7	3,7	5,6	5,6	5,6
BC-ECW-100-724	18-18	4484	69%	383	5,6	5,6	5,6	7,5	7,5	7,5	7,5
BC-ECW-100-784	18-18	4720	71%	356	5,6	5,6	7,5	7,5	7,5	7,5	7,5
BC-ECW-150-724	20-20	4484	69%	383	3,7	5,6	5,6	5,6	5,6	7,5	7,5
BC-ECW-150-786	20-20	5192	78%	436	5,6	5,6	5,6	7,5	7,5	7,5	11,2
BC-ECW-150-844	20-20	6136	68%	381	5,6	7,5	7,5	7,5	11,2	11,2	11,2
BC-ECW-150-846	20-20	7080	74%	483	11,2	11,2	11,2	11,2	11,2	14,9	14,9
BC-ECW-200-846	25-25	7080	74%	483	7,5	7,5	11,2	11,2	11,2	11,2	11,2
BC-ECW-200-906	25-25	8260	74%	488	11,2	11,2	11,2	11,2	11,2	14,9	14,9
BC-ECW-200-966	25-25	9440	74%	488	11,2	11,2	14,9	14,9	14,9	14,9	14,9
BC-ECW-200-1026	25-25	10620	74%	486	14,9	14,9	14,9	14,9	18,7	18,7	18,7
BC-ECW-200-1086	25-25	11800	74%	483	14,9	18,7	18,7	18,7	18,7	22,4	22,4
BC-ECW-300-966	28-28	9440	74%	488	11,2	11,2	11,2	14,9	14,9	14,9	14,9
BC-ECW-300-1026	28-28	10620	74%	486	11,2	14,9	14,9	14,9	18,7	18,7	18,7
BC-ECW-300-1086	28-28	11800	74%	483	14,9	18,7	18,7	18,7	18,7	22,4	22,4
BC-ECW-300-1206	28-28	14160	75%	473	18,7	18,7	18,7	22,4	22,4	22,4	29,8

1. *ESP: System pressure drop external to the recovery module.
2. **Fan KW is for modules with standard components only. For optional components consult the manufacturer.
3. The internal static pressure shown is the sum of all the module's internal components, which are:
intake hood, bird screen, damper, filters, and the recuperator.
4. For higher capacities, please consult the manufacturer.

DIMENSION DRAWING



PLAN VIEW



SIDE VIEW

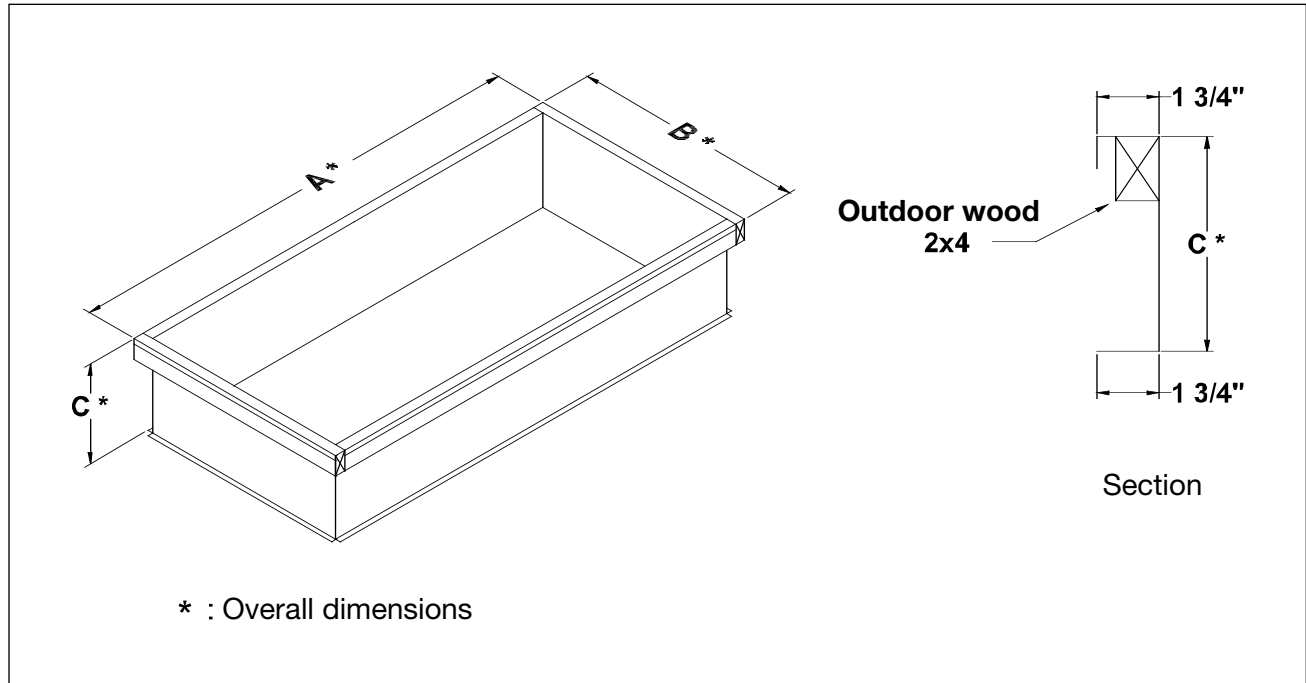
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|---------------|------------------------------|
| ① Heat Wheel | ⑤ Fresh air intake hood |
| ② Supply fan | ⑥ Exhaust hood |
| ③ Exhaust fan | ⑦ Fresh air motorized damper |
| ④ Filters | ⑧ Back draft exhaust damper |

DIMENSIONS

Unit Model No	Air flow CFM	Fan size	Dimensions (inches)						
			A	B	C	D	Q	X	Y
BC-ECW-25-324	1500	9-9	83	45	29	58	4	23	24
BC-ECW-25-364	2000	10-10	83	58	29	58	4	23	24
BC-ECW-25-424	3000	10-10	83	83	29	58	4	23	24
BC-ECW-50-424	3000	12-12	88	58	34	68	4	28	30
BC-ECW-50-486	4000	12-12	88	72	34	68	4	28	30
BC-ECW-50-544	5000	12-12	88	72	34	68	4	28	30
BC-ECW-75-486	4000	15-15	97	72	40	80	5	34	36
BC-ECW-75-544	5000	15-15	97	72	40	80	5	34	36
BC-ECW-75-604	6000	15-15	97	72	40	80	5	34	36
BC-ECW-75-664	7000	15-15	97	79	40	80	5	34	36
BC-ECW-100-604	6000	18-18	111	72	46	92	5	40	36
BC-ECW-100-664	7500	18-18	111	79	46	92	5	40	36
BC-ECW-100-724	9500	18-18	111	90	46	92	5	40	36
BC-ECW-100-784	10000	18-18	111	90	46	92	5	40	36
BC-ECW-150-724	9500	20-20	121	90	52	104	6	46	48
BC-ECW-150-786	11000	20-20	121	90	52	104	6	46	48
BC-ECW-150-844	13000	20-20	121	96	52	104	6	46	48
BC-ECW-150-846	15000	20-20	121	96	52	104	6	46	48
BC-ECW-200-846	15000	25-25	135	96	64	128	6	58	62
BC-ECW-200-906	17500	25-25	135	118	64	128	6	58	62
BC-ECW-200-966	20000	25-25	135	118	64	128	6	58	62
BC-ECW-200-1026	22500	25-25	135	118	64	128	6	58	62
BC-ECW-200-1086	25000	25-25	135	136	64	128	6	58	62
BC-ECW-300-966	20000	28-28	144	118	71	142	6	65	66
BC-ECW-300-1026	22500	28-28	144	118	71	142	6	65	66
BC-ECW-300-1086	25000	28-28	144	136	71	142	6	65	66
BC-ECW-300-1206	30000	28-28	144	136	71	142	6	65	66

Unit Model No	Air flow Litres/sec.	Fan size	Dimensions (mm)						
			A	B	C	D	Q	X	Y
BC-ECW-25-324	708	9-9	2108	1143	737	1473	102	584	610
BC-ECW-25-364	944	10-10	2108	1473	737	1473	102	584	610
BC-ECW-25-424	1416	10-10	2108	2108	737	1473	102	584	610
BC-ECW-50-424	1416	12-12	2235	1473	864	1727	102	711	762
BC-ECW-50-486	1888	12-12	2235	1829	864	1727	102	711	762
BC-ECW-50-544	2360	12-12	2235	1829	864	1727	102	711	762
BC-ECW-75-486	1888	15-15	2464	1829	1016	2032	127	864	914
BC-ECW-75-544	2360	15-15	2464	1829	1016	2032	127	864	914
BC-ECW-75-604	2832	15-15	2464	1829	1016	2032	127	864	914
BC-ECW-75-664	3304	15-15	2464	2007	1016	2032	127	864	914
BC-ECW-100-604	2832	18-18	2819	1829	1168	2337	127	1016	914
BC-ECW-100-664	3540	18-18	2819	2007	1168	2337	127	1016	914
BC-ECW-100-724	4484	18-18	2819	2286	1168	2337	127	1016	914
BC-ECW-100-784	4720	18-18	2819	2286	1168	2337	127	1016	914
BC-ECW-150-724	4484	20-20	3073	2286	1321	2642	152	1168	1219
BC-ECW-150-786	5192	20-20	3073	2286	1321	2642	152	1168	1219
BC-ECW-150-844	6136	20-20	3073	2438	1321	2642	152	1168	1219
BC-ECW-150-846	7080	20-20	3073	2438	1321	2642	152	1168	1219
BC-ECW-200-846	7080	25-25	3429	2438	1626	3251	152	1473	1575
BC-ECW-200-906	8260	25-25	3429	2997	1626	3251	152	1473	1575
BC-ECW-200-966	9440	25-25	3429	2997	1626	3251	152	1473	1575
BC-ECW-200-1026	10620	25-25	3429	2997	1626	3251	152	1473	1575
BC-ECW-200-1086	11800	25-25	3429	3454	1626	3251	152	1473	1575
BC-ECW-300-966	9440	28-28	3658	2997	1803	3607	152	1651	1676
BC-ECW-300-1026	10620	28-28	3658	2997	1803	3607	152	1651	1676
BC-ECW-300-1086	11800	28-28	3658	3454	1803	3607	152	1651	1676
BC-ECW-300-1206	14160	28-28	3658	3454	1803	3607	152	1651	1676

ROOF CURBS (optional)

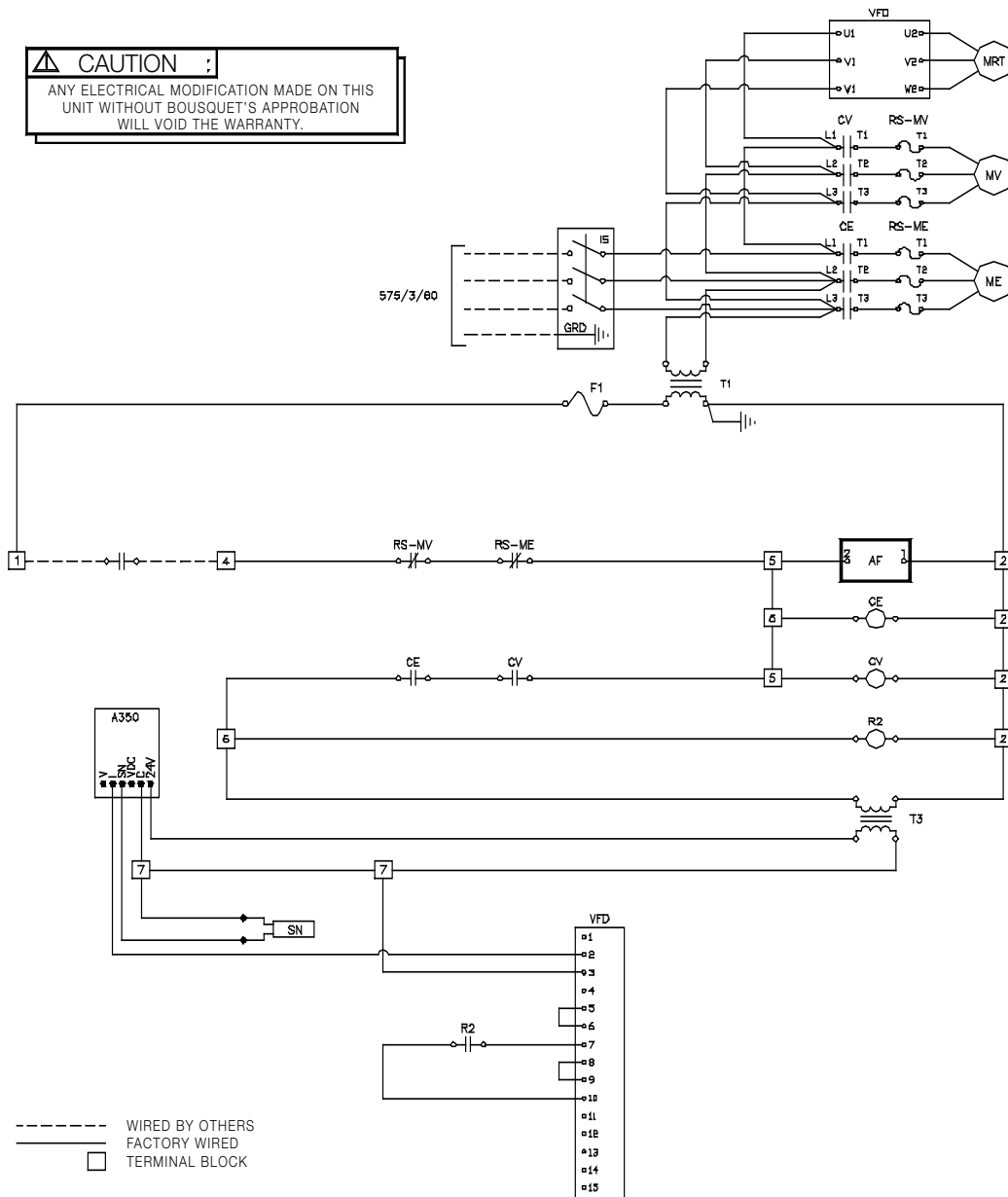


ROOF CURBS DIMENSIONS (inches)							
Models	BC-ECW-25	BC-ECW-50	BC-ECW-75	BC-ECW-100	BC-ECW-150	BC-ECW-200	BC-ECW-300
A	82-1/2	87-1/2	96-1/2	110-1/2	120-1/2	134-1/2	143-1/2
B	57-1/2	67-1/2	79-1/2	91-1/2	103-1/2	127-1/2	141-1/2
C	17	17	17	17	17	17	17

ROOF CURBS DIMENSIONS (mm)							
Models	BC-ECW-25	BC-ECW-50	BC-ECW-75	BC-ECW-100	BC-ECW-150	BC-ECW-200	BC-ECW-300
A	2096	2223	2451	2807	3061	3416	3645
B	1641	1715	2019	2324	2629	3239	3594
C	432	432	432	432	432	432	432

TYPICAL WIRING DIAGRAM

CAUTION :
ANY ELECTRICAL MODIFICATION MADE ON THIS UNIT WITHOUT BOUSQUET'S APPROBATION WILL VOID THE WARRANTY.



----- WIRED BY OTHERS
 _____ FACTORY WIRED
 □ TERMINAL BLOCK

LEGEND

A350	HEAT WHEEL SET POINT	R2	HEAT WHEEL CONTROL RELAY
AF	FRESH AIR DAMPER MOTOR	RS-ME	EXHAUST MOTOR OVERLOAD RELAY
CE	EXHAUST MOTOR STARTER CONTACTS AND COIL	RS-MV	FAN MOTOR OVERLOAD RELAY
CV	FAN STARTER CONTACTS AND COILS	SN	HEAT WHEEL MODULATION SENSOR
F1	120 VCA (3 AMP) FUSE	T1	575/120 VCA 350VA. TRANSFO.
ME	EXHAUST FAN MOTOR	T3	120/24 VCA 40VA TRANSFO. (HEAT WHEEL MODUL.)
MRT	HEAT WHEEL MOTOR	VFD	HEAT WHEEL MOTOR ADJUSTABLE GEAR
MV	SUPPLY FAN MOTOR		

DANGER :
HIGH VOLTAGE / SHOCK HAZARD
 INSTALLATION AND MAINTENANCE MUST BE PERFORMED BY A QUALIFIED TECHNICIAN.
 IMPROPER INSTALLATION MAY RESULT IN DAMAGE, INJURY OR EVEN DEATH.

COMPONENTS

STANDARD

- * CSA Certified
- * Sensible and latent rotary recuperator with adjustable purge sector
- * Frost control with VFD and exhaust temperature control
- * Return air horizontal or vertical
- * Air supply - horizontal or vertical
- * 3 phases electrical supply
- * ODP fan motor - 1800 RPM
- * Adjustable motor base
- * Main electrical supply: Terminal block
- * Foreword curved centrifugal fan with ball bearings
- * Belts and pulleys entrainment
- * Rubber pads vibration isolators
- * Double wall construction with 2" insulation
- * 18 gauge painted exterior panels made of 18 gauge satin finish steel
- * 22 gauge galvanized steel liner
- * Welded channel structural base frame
- * Pleated 2"-30% disposable filters in both airstreams, upstream of the recuperator
- * Motorised damper in fresh air intake
- * Air intake hood with bird screen
- * Back draft damper in exhaust air outlet
- * Air exhaust hood with bird screen
- * Lifting lugs

OPTIONAL

- * Sensible recuperator only
- * Frost control by preheating or bypassing outside air*
- * Single phase electrical supply
- * TEFC motor
- * Electrical disconnect
- * Remote control panel
- * Other types of fans*
- * Spring vibration isolators
- * Roof curb
- * Dirty filters indication
- * Reheat equipment (gas, electric or others)*
- * Without a supply fan
- * Other type of recuperator (heat pipe, run around glycol loop, ...)*

(*) Dimensions will be different
For other options, refer to manufacturer

TYPICAL SPECIFICATION

GENERAL

Supply and install a **Bousquet** model BC-ECW-_____ - _____ AIR-AIR heat conservation module capable of transferring both sensible and latent heat, and suitable for indoor or outdoor installation. The manufacturer must be accredited by the CWB in compliance with standard CSA W47.1. and meet the minimum standard applicable to all types of welds, including the welds on a stainless steel heat exchanger.

PERFORMANCE

	Exhaust side	Fresh air side
Air flow (CFM):	_____	_____
Upstream temperature (°F) :	_____	_____
Relative humidity (%)	_____	_____
ΔP - ESP (in. w.c.) :	_____	_____
Fan HP:	_____	_____
Recovery wheel (HP) :	_____	_____
Recovery effectiveness (%) :	_____	_____

RECUPERATOR

The energy exchanger will be a rotating wheel certified ARI 1060, constructed of synthetic fibre-based media impregnated with a non-migrating water selective molecular sieve desiccant uniformly and permanently disperse throughout the matrix structure in contrast of being coated, bonded or synthesized onto the matrix, and thus not susceptible to delaminating or erosion of the desiccant material, and completely water washable. The wheel is to be mounted in a cassette made of heavy gauge galvanized steel, with removable access panels, rotor bearings, tangential belt entrainment, adjustable purge sector, full contact brush seals in periphery and at air flow separation, and VFD speed control to prevent frost formation.

FANS

The module will be equipped with 2 fans, supply and exhaust, centrifugal type with a foreword curved (FC) wheel, double width double inlet (DWDI), statically and dynamically balanced. Motors will be open drip proof (ODP) type and mounted on an adjustable base allowing for belts tension and adjustment. All fan and motors will be mounted on rubber pads vibration isolators. Fan casing dimensions shall be in conformity with the Air Movement and Control Association (AMCA).

FILTERS

The BC-ECW module will be equipped with two filters banks located upstream of the recuperator in both supply and exhaust air flow. The filters media will be 2 inches thick, 30% efficient, pleated extended surface disposable type having a good resistance to humidity, and sized for 500 FPM maximum. They will be mounted in galvanized steel slides and accessible trough an access door located on the side of the unit. Filter edges in contact with the access door will be gasketed to minimize air bypass.

TYPICAL SPECIFICATION

FRESH AIR INTAKE

The fresh air intake will have two horizontal inlet hoods, one above the other, sized for 500 FPM maximum, built and finished to match the casing. Each hood will be equipped with bird screen, parallel blades damper made of galvanized steel and equipped with an electric on-off actuator and an end switch.

EXHAUST AIR OUTLET

The exhaust air outlet will have a hood oriented to push the exhaust air away from the air intake and avoid short circuiting. It will be equipped with a back draft damper, and a bird screen.

CONSTRUCTION

The casing will be mounted on a welded structural steel frame made of « U » shaped channel, protected against corrosion. The exterior panels will be made of 18 gauge satin finish steel, double folded 90° at both edges, to form a 2 inches thick wall, and having a width of 20 inches maximum in order to provide an excellent structural rigidity for walls and roofs. Insulation will be 2 inches fibreglass which will be covered by a solid 22 gauge galvanized steel liner. The outer surfaces of the unit will be treated with a phosphate cleaner-conditioner and covered with a coat of anticorrosive epoxy based primer exceeding the Canadian (type 1-GP-40) and American (type TT-P-636 D) standards for salt mist and humidity. The finish will be ensured with first quality high performance alkyd resin enamel applied at the plant. Each unit section will have hinged doors with gaskets and screwed knobs handles for easy access to every components.

ELECTRICITY & CONTROLS

All electrical and control components will be installed in a NEMA 3X enclosure, and will include terminal block for power connection for operation at ___volts/___phases/60cycles, magnetic contactors with thermal overloads, control transformer, VFD and temperature controller for frost prevention of the recuperator, and all other components required for the operation of the unit.

CERTIFICATION - TESTING - START UP

The energy conservation module shall be CSA certified, and be factory tested prior to shipment. The start up shall be performed by an authorized technician.



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