

ERV Series

Submittal Data

Models 60Hz - HFC-410A



LC971

Rev.: September 24, 2021



ERV Series

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OPERATING PRINCIPLES

The American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE) standard 62 requires significantly higher amounts of outside air for building HVAC systems than in the past. In extremely warm, cold or humid climates these ventilation loads are significant. The HVAC system must be sized to include both the building and the ventilation air loads.

The ERV captures the energy contained in the exhaust air stream (which has been heated or cooled by the HVAC system) and returns it to the entering outdoor air stream. It can return up to 85% of the difference in total energy contained within the two air streams. The ERV enthalpy wheel contains parallel layers of a polymeric material that are impregnated with silica gel (a desiccant). As the wheel slowly rotates through each counter flowing air stream, the wheel surface captures both sensible and latent energy. The energy is transferred from the warmer to the cooler air stream. Moisture is transferred from the wetter to the drier air stream. In the heating mode, the wheel rotates to provide a constant transfer of heat from the warm moist exhaust air stream to the colder and drier intake air stream. During the cooling season, the humid and hot ventilation air is cooled and dehumidified by the drier, cooler exhaust air. Ideal applications are areas that have high occupancy loads along with high ventilation requirements.

For use in dry and/or high elevation locations the ERV wheel can be had in a sensible only version. Refer to ASHRAE recommendations.

Because the ERV can significantly reduce the outdoor air ventilation load added the HVAC system, equipment sizes can be reduced. Reductions in cooling loads of up to 4 tons per 1000 CFM of outside air are possible, which can result in significant capital savings.

During both summer and winter, the energy recovery wheel transfers moisture entirely in the vapor state. This process eliminates wet surfaces that retain dust and promote fungal growth. The need for a condensate pan and drain is also eliminated. Because it is constantly rotating, the energy recovery wheel is always being cleaned by counter-flowing air streams, first in one direction, and then the other. Because it is always dry, dust or other particles impinging on the surface during one half cycle, are automatically removed during the next half cycle. For additional time between occasional wheel cleanings, Climatemaster includes as standard MERV 8 filters on both the ODA and exhaust streams.

Climatemaster's ERV series are dedicated stand-alone

units. Five configurations are available: 3 Roof-Top units and two indoor units.

Application software is available to calculate the load reductions and provide energy and dollar savings for all areas of the United States and Canada.

ENGINEERING DATA

Energy recovery COMPONENT certified to the AHRI Air-to-Air Energy Recovery Ventilation Equipment Certification Program in accordance with AHRI Standard 1060-2000. Actual performance in packaged equipment may vary.

UNIT FEATURES

- 300 - 6,200 CFM
- AirXchange ARI 1060 certified energy recovery wheels are used and carry a 5 year limited warranty.
- The wheel desiccant material is permanently integrated into the media of the wheel. The energy recover cassette is a UL recognized component for electrical and fire safety.
- Microprocessor controls standard
- Belt-drive high efficiency motors with adjustable motor sheave.
- Hinged access doors with latches
- Merv 8 Filters are provided on the entering air and leaving airstreams before the heat wheel.
- Centrifugal blowers (both intake and exhaust) for high static capability and low sound levels
- Heavy gauge galvanized steel cabinets. Powder coat paint on exterior cabinets.
- Fully insulated cabinet
- Internal enthalpy wheels are easily cleanable. All wheels over 29" are segmented into easily removable pie segments
- All wheels are designed to easily slide in and out of the ERV for servicing.
- Continuous operation down to 10°F (-12°C) without defrost at indoor relative humidity up to 40%. For temperatures below 10°F (-12°C), Optional Low Ambient Control Kit is required.

CONTROLS

Unit Start – Standard Controls

Upon a fan signal from a unit or BMS (G or 24V) Intake Air and Exhaust Air Dampers (if option selected) will open, exhaust and intake fan will start, and wheel motor will start. Unit will operate continuously until 24V control signal is interrupted. Door switch is included.

OPTIONS

Control Options

Climate Smart® Start-Stop-Jog (Economizer Control):

Start-Stop-Jog control (for fixed wheel applications). This option stops the wheel when outside conditions exist where recovery is not desired (in the mid-temperature/humidity range), increasing “shoulder months” efficiency. The controls allows the unit to operate in economizer mode (stopped wheel rotation) at the standard air flow rate (or variable rate if equipped with VFD and controls) while jogging the wheel on at intervals to keep wheel clean. Control is either DB or enthalpy control or both (equipped with both sensors). User settable jumpers determine control method. Dry bulb temperature set points are adjustable from a maximum on at 70°F to a minimum off at 40°F, with a minimum (adjustable) differential of 10°F.

VFD: VFD's are available on both fans and or wheel, in non-PID and PID, logic configuration. VFD's are intended for manual balancing or control by an external 0-10V DC signal from a BMS. This can be based on a CO2 sensor for demand controlled ventilation, for building pressurization, or both.

Quick Step Control with PIP VFD's: This option includes the PID VFD's on both fans and a standalone Smart Controller. BACnet capable controller that integrates the function of the CO2 sensor and the VFD's to provide demand controlled ventilation. The control includes a display module that can be mounted remotely, and allows for quick and precise settings of intake and discharge air flows.

Protection Options

Low Ambient Kit: The low ambient kit prevents frost formation on energy wheel heat transfer surfaces by terminating the intake blower operation when discharge air temperature falls below a field selectable temperature setting. Intake blower operation resumes operation after temperature rises above the adjustable temperature differential. Temperature switch factory set at 20° and is adjustable from 0 to 90° with a fixed differential of 16°.

The frost threshold is the outdoor temperature at which frost will begin to form on the ERV wheel. For Energy Recovery Ventilators, the frost threshold is typically below 10°F with 40% RH exhaust air (above average winter RH levels). Frost threshold is dependent on indoor temperature and humidity. Because Energy Recovery Ventilators have a low frost threshold, frost control options are not necessary in many climates. Exhaust from high humidity areas such as locker rooms and pool rooms may require low ambient control.

FROST THRESHOLD TEMPERATURE	
INDOOR RH AT 70°F	FROST THRESHOLD TEMPERATURE
20%	0°F
30%	5°F
40%	10°F

Rotation Sensor: Proves wheel rotation by a pulse counter sensing a magnet on the wheel. A 5 second time delay is incorporated on unit startup. If rotation is not sensed for 5 second thereafter the alarm circuit will trip closing a 5 amp rated relay.

Disconnect: Factory provided, field installed.

Monitor Options

Differential Pressure Gauge: A permanently mounted air differential gauge that measures pressure drop across heat recovery wheel. Used for balancing or monitoring. Pressure drop information is printed in nameplate section for quick reference.

Dirty Filter Switches: Provides indication (red light at control) of switch closure and trips the alarm contacts for a remote signal when differential pressure across the filter bank has increase to setpoint. Pressure differential setpoint is field adjustable up to 1.5"WC. Factory setting is 0.7"WC.

CO2 Sensor: Unit mounted in return/exhaust air plenum, sends a 0-10V DC signal to the Quick Step Controller or a BMS system.

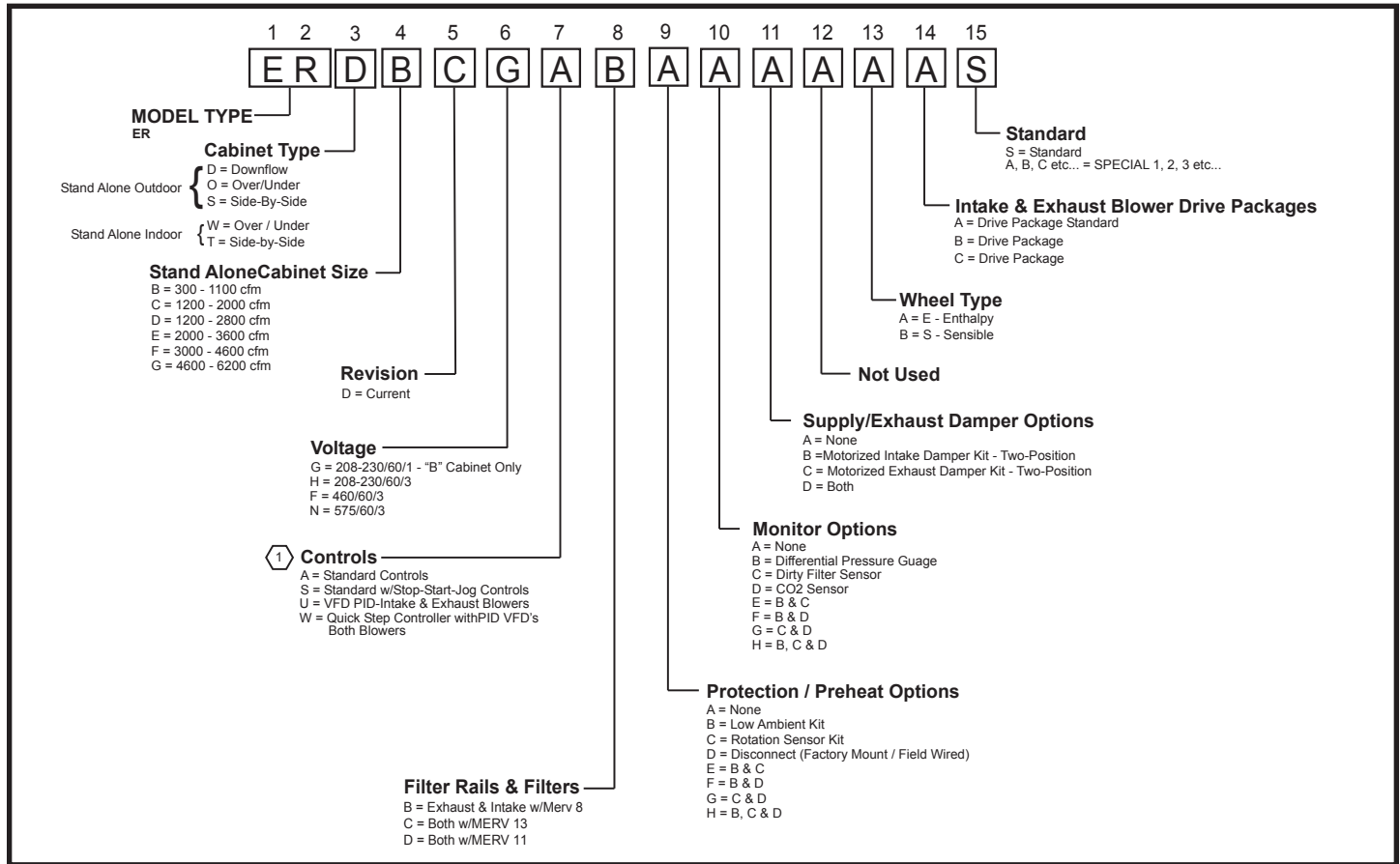
Supply/Exhaust Dampers: Low leakage (5%), two-position shut off dampers, with end switch to prove opening. Available on the intake, the exhaust or both.

MERV Filters: Upgrade the standard Merv 8 filters to MERV 11 or MERV 13.

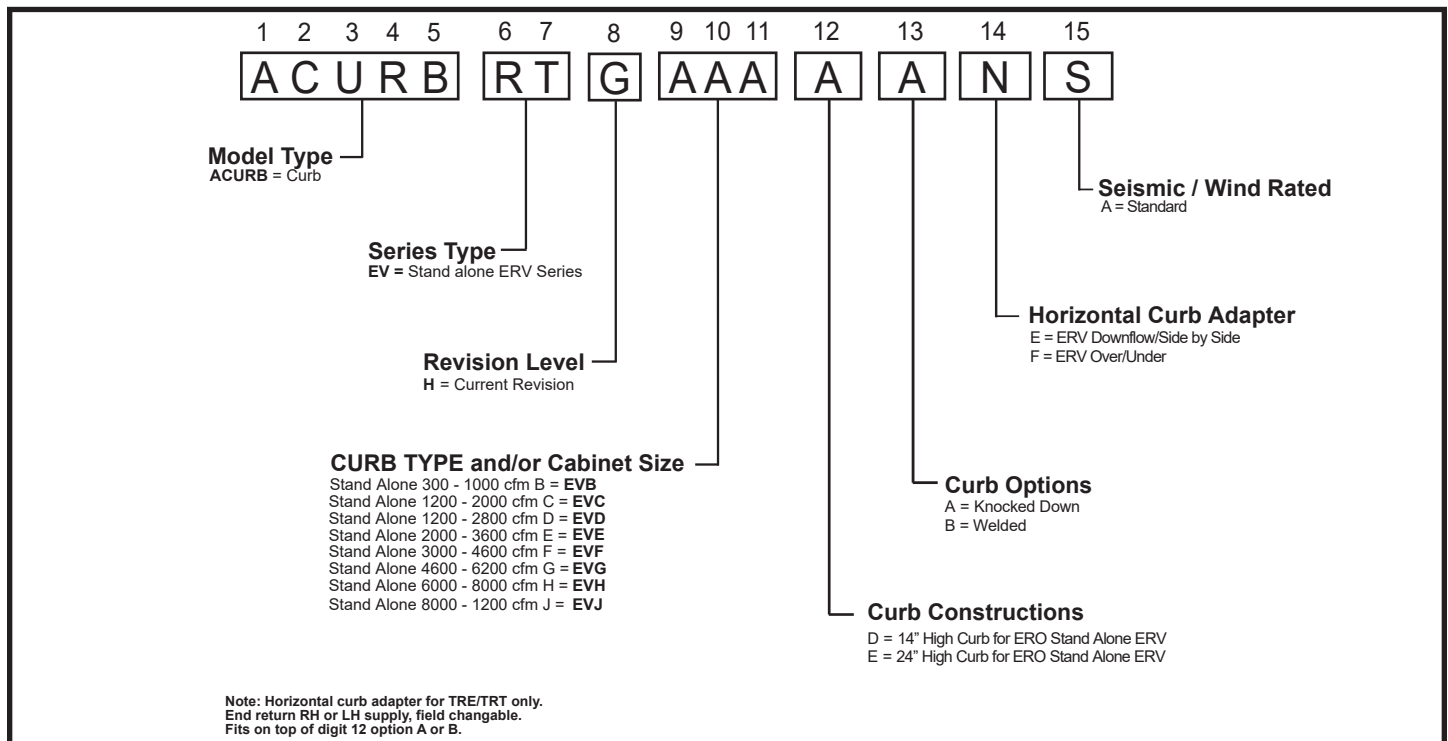
Sensible Only Wheel: For use in dry and/or high climates

ERV Series Nomenclature

ERV Unit Nomenclature



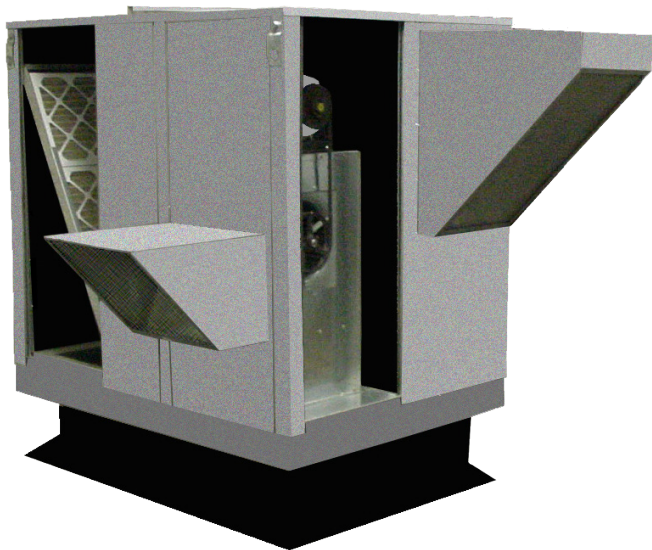
ERV Full Curb (TRE & ERV Unit Nomenclature)



Product Applications

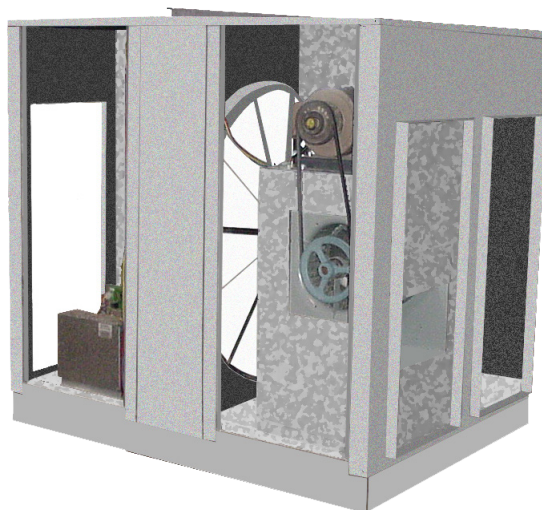
D Series

D Series energy recovery ventilators are utilized in applications that require a rooftop installation. These units may be installed as a stand-alone unit with a separate and distinct duct system from other air conditioning equipment. In many applications the supply (intake) air duct is connected to the return air duct of an air conditioning system or multiple systems. By doing this the enthalpy wheel is able to provide preconditioned outside air to the air conditioning system(s).



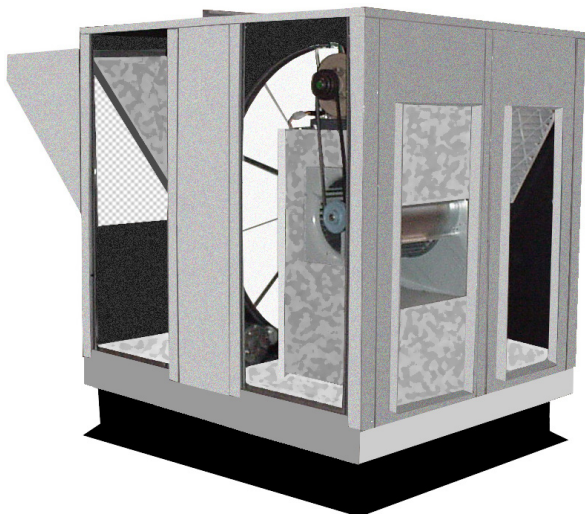
T Series

T series energy recovery ventilators are designed for the use inside a building for applications that require side-by-side duct. Typically these units are installed in a mechanical room or mounted above a ceiling. Both the outside air intake and the exhaust air have duct system to the outside. The return air and supply air also are ducted. Field supplied balancing dampers should be installed to aid in balancing.



S Series

S Series energy recovery ventilators are designed for outside use in rooftop or pad installations where the application requires a side-by-side duct system, one of the benefits of this design is the ability to easily be connected to the horizontal ductwork of an air conditioning system. Field supplied balancing dampers should be installed to aid in balancing.



Product Applications - Continued

O Series

O series energy recovery ventilators are designed for outside use in rooftop or pad installation where the application requires an over-under duct system. One of the benefits of this design is the ability to be ducted directly to the back of a rooftop air conditioning unit. Another use is for through the wall installations. The horizontal return duct connection can be converted to bottom return in the field. Field supplied balance dampers should be installed to aid in balancing.

W Series

W series energy recovery ventilators are designed for use inside a building for applications that require over-under duct. Typically the units are installed in a mechanical room or mounted above a ceiling. Both the outside air intake and the exhaust air have duct to the outside. The return and supply air are also ducted. The horizontal return duct connection can be converted to bottom return in the field. Field supplied balancing dampers should be installed to aid in balancing.



ERV Unit Effectiveness – & AHRI 1060-2001

AHRI certified energy recovery wheels ensure that published effectiveness (%) has been verified by third party testing. The following certification program ratings are included in the AHRI standard:

1. Airflow, scfm
2. Pressure drop, inches H₂O
3. Sensible and net sensible effectiveness (at 100% and 75% rated airflow for heating and cooling conditions)
4. Latent and net latent effectiveness (at 100% and 75% rated airflow for heating and cooling conditions)
5. Total and net total effectiveness (at 100% and 75% rated airflow for heating and cooling conditions)
6. Exhaust air transfer ratio, outdoor air correction factor, and purge angle or setting (if applicable) at 0.00 inches H₂O and two or more pressure differentials.

Test conditions are 95°F DB / 78°F WB outside air in cooling and 35°F DB outside air in heating with return air temperatures of 75°F DB / 63°F WB in cooling and 70°F DB in heating.

AHRI Certified Ratings

EROB, ERWB

Model Numbers EROB, ERWB				
		Sensible	Latent	Total
Total Effectiveness	100% Airflow Heating	76%	68%	73%
	75% Airflow Heating	81%	73%	78%
	100% Airflow Cooling	76%	68%	72%
	75% Airflow Cooling	81%	73%	76%
Net Effectiveness	100% Airflow Heating	76%	68%	73%
	75% Airflow Heating	81%	73%	78%
	100% Airflow Cooling	76%	68%	72%
	75% Airflow Cooling	81%	73%	76%

Thermal Ratings @ 0" Pressure Diff.

Enthalpy Wheel AHRI Rating Data	
Nominal Airflow CFM	900 @ 1.0D
EATR - -1.00 H2O	9.30%
EATR - 0.00 H2O	0.70%
EATR - +1.00 H2O	0.00%
OACF - -1.00 H2O	0.97
OACF - 0.00 H2O	1.19
OACF - +1.00 H2O	1.34

Thermal Ratings @ 0" Pressure Diff.

ERDB, ERSB, ERTB

Model Numbers ERDB, ERSB, ERTB				
		Sensible	Latent	Total
Total Effectiveness	100% Airflow Heating	76%	68%	73%
	75% Airflow Heating	81%	73%	78%
	100% Airflow Cooling	76%	68%	72%
	75% Airflow Cooling	81%	73%	76%
Net Effectiveness	100% Airflow Heating	76%	68%	73%
	75% Airflow Heating	81%	73%	78%
	100% Airflow Cooling	76%	68%	72%
	75% Airflow Cooling	81%	73%	76%

Thermal Ratings @ 0" Pressure Diff.

Enthalpy Wheel AHRI Rating Data	
Nominal Airflow CFM	900 @ 1.0D
EATR - -1.00 H2O	9.30%
EATR - 0.00 H2O	0.70%
EATR - +1.00 H2O	0.00%
OACF - -1.00 H2O	0.97
OACF - 0.00 H2O	1.19
OACF - +1.00 H2O	1.34

Thermal Ratings @ 0" Pressure Diff.

EROC, ERWC, ERTC, ERDC, ERSC

Model Numbers EROC, ERWC, ERTC, ERDC, ERSC				
		Sensible	Latent	Total
Total Effectiveness	100% Airflow Heating	68%	61%	65%
	75% Airflow Heating	72%	67%	71%
	100% Airflow Cooling	68%	61%	64%
	75% Airflow Cooling	72%	67%	70%
Net Effectiveness	100% Airflow Heating	68%	61%	65%
	75% Airflow Heating	72%	67%	71%
	100% Airflow Cooling	68%	61%	64%
	75% Airflow Cooling	72%	67%	70%

Thermal Ratings @ 0" Pressure Diff.

Enthalpy Wheel AHRI Rating Data	
Nominal Airflow CFM	1600 @ .95D
EATR - -1.00 H2O	7.80%
EATR - 0.00 H2O	0.40%
EATR - +1.00 H2O	0.00%
OACF - -1.00 H2O	0.97
OACF - 0.00 H2O	1.16
OACF - +1.00 H2O	1.29

Thermal Ratings @ 0" Pressure Diff.

EROD, ERWD, ERDD, ERSB, ERTD

Model Numbers EROD, ERWD, ERDD, ERSB, ERTD				
		Sensible	Latent	Total
Total Effectiveness	100% Airflow Heating	68%	60%	65%
	75% Airflow Heating	74%	67%	71%
	100% Airflow Cooling	68%	60%	63%
	75% Airflow Cooling	74%	67%	70%
Net Effectiveness	100% Airflow Heating	68%	60%	65%
	75% Airflow Heating	74%	67%	71%
	100% Airflow Cooling	68%	60%	63%
	75% Airflow Cooling	74%	67%	70%

Thermal Ratings @ 0" Pressure Diff.

Enthalpy Wheel AHRI Rating Data	
Nominal Airflow CFM	2600 @ .95D
EATR - -1.00 H2O	6.10%
EATR - 0.00 H2O	0.40%
EATR - +1.00 H2O	0.00%
OACF - -1.00 H2O	0.99
OACF - 0.00 H2O	1.13
OACF - +1.00 H2O	1.23

Thermal Ratings @ 0" Pressure Diff.

AHRI Certified Ratings - Continued

EROE, ERWE, ERDE, ERSE, ERTE

Model Numbers EROE, ERWE, ERDE, ERSE, ERTE				
		Sensible	Latent	Total
Total Effectiveness	100% Airflow Heating	68%	60%	65%
	75% Airflow Heating	74%	67%	71%
	100% Airflow Cooling	68%	60%	63%
	75% Airflow Cooling	74%	67%	70%
Net Effectiveness	100% Airflow Heating	68%	60%	65%
	75% Airflow Heating	74%	67%	71%
	100% Airflow Cooling	68%	60%	63%
	75% Airflow Cooling	74%	67%	70%

Thermal Ratings @ 0" Pressure Diff.

Enthalpy Wheel AHRI Rating Data	
Nominal Airflow CFM	3100 @ .9D
EATR - -1.00 H2O	4.90%
EATR - 0.00 H2O	1.30%
EATR - +1.00 H2O	0.30%
OACF - -1.00 H2O	0.99
OACF - 0.00 H2O	1.07
OACF - +1.00 H2O	1.12

Thermal Ratings @ 0" Pressure Diff.

EROF, ERWF, ERDF, ERSF, ERTF

Model Numbers EROF, ERWF, ERDF, ERSF, ERTF				
		Sensible	Latent	Total
Total Effectiveness	100% Airflow Heating	68%	60%	65%
	75% Airflow Heating	73%	67%	71%
	100% Airflow Cooling	68%	60%	63%
	75% Airflow Cooling	73%	67%	70%
Net Effectiveness	100% Airflow Heating	68%	60%	65%
	75% Airflow Heating	73%	67%	71%
	100% Airflow Cooling	68%	60%	63%
	75% Airflow Cooling	73%	67%	70%

Thermal Ratings @ 0" Pressure Diff.

Enthalpy Wheel AHRI Rating Data	
Nominal Airflow CFM	3900 @ .95D
EATR - -1.00 H2O	4.40%
EATR - 0.00 H2O	1.10%
EATR - +1.00 H2O	0.20%
OACF - -1.00 H2O	0.99
OACF - 0.00 H2O	1.06
OACF - +1.00 H2O	1.11

Thermal Ratings @ 0" Pressure Diff.

EROG, ERWG, ERDG, ERSG, ERTG

Model Numbers EROG, ERWG, ERDG, ERSG, ERTG				
		Sensible	Latent	Total
Total Effectiveness	100% Airflow Heating	68%	60%	65%
	75% Airflow Heating	73%	67%	71%
	100% Airflow Cooling	68%	60%	63%
	75% Airflow Cooling	73%	67%	70%
Net Effectiveness	100% Airflow Heating	68%	60%	65%
	75% Airflow Heating	73%	67%	71%
	100% Airflow Cooling	68%	60%	63%
	75% Airflow Cooling	73%	67%	70%

Thermal Ratings @ 0" Pressure Diff.

Enthalpy Wheel AHRI Rating Data	
Nominal Airflow CFM	5500 @ .95D
EATR - -1.00 H2O	4.00%
EATR - 0.00 H2O	1.00%
EATR - +1.00 H2O	0.20%
OACF - -1.00 H2O	0.99
OACF - 0.00 H2O	1.06
OACF - +1.00 H2O	1.1

Thermal Ratings @ 0" Pressure Diff.

ERDH, ERDJ

Model Numbers ERDH, ERDJ				
		Sensible	Latent	Total
Total Effectiveness	100% Airflow Heating	68%	60%	65%
	75% Airflow Heating	73%	67%	71%
	100% Airflow Cooling	68%	60%	63%
	75% Airflow Cooling	73%	67%	70%
Net Effectiveness	100% Airflow Heating	68%	60%	65%
	75% Airflow Heating	73%	67%	71%
	100% Airflow Cooling	68%	60%	63%
	75% Airflow Cooling	73%	67%	70%

Thermal Ratings @ 0" Pressure Diff.

Enthalpy Wheel AHRI Rating Data		
Model Number	ERDH	ERDJ
Nominal Airflow CFM	6600 @ .95D	10800 @ .95D
EATR - -1.00 H2O	4.60%	3.40%
EATR - 0.00 H2O	1.90%	1.20%
EATR - +1.00 H2O	0.90%	0.40%
OACF - -1.00 H2O	0.99	0.99
OACF - 0.00 H2O	1.05	1.04
OACF - +1.00 H2O	1.09	1.07

Thermal Ratings @ 0" Pressure Diff.

Blower Performance Data

ERDB

INTAKE BLOWER RPM								EXHAUST BLOWER RPM							
	External Static Pressure (In Water)								External Static Pressure (In Water)						
CFM	0	0.25	0.5	0.75	1	1.25	1.5	CFM	0	0.25	0.5	0.75	1	1.25	1.5
300	N/A	N/A	1175	1350	1450	1605	1730	300	N/A	N/A	1030	1225	N/A	N/A	N/A
500	N/A	1170	1340	1540	1655	1725	1840	500	N/A	1025	1180	1265	1425	1535	N/A
700	1295	1425	1600	1625	1795	1960	2035	700	1120	1190	1340	1445	1540	1645	1720
900	1540	1660	1720	1790	2030	2110	2195	900	1285	1525	1500	1575	1670	1785	1865
1100	1785	1915	2025	2185	N/A	N/A	N/A	1100	1570	1665	1670	1775	1860	1920	N/A

Mist Eliminator Filter in Intake Hood (1.5HP)

Barometric Hood, 2" Pleated Filters (1.5HP)

Notes

1. Drive losses included in the above tables
2. Performance can vary depending on ambient conditions
3. Blower RPMs are for reference only

RPM Range			
	Low	1000-1300	Standard Unit
	Medium	1300-1700	Optional Unit
	High	1750-2200	Optional Unit

ERDC

INTAKE BLOWER RPM								EXHAUST BLOWER RPM							
	External Static Pressure (In Water)								External Static Pressure (In Water)						
CFM	0	0.25	0.5	0.75	1	1.25	1.5	CFM	0	0.25	0.5	0.75	1	1.25	1.5
1200	1055	1135	1295	1420	1540	1650	1725	1200	1010	1195	1350	1445	1580	1685	1735
1400	1140	1240	1340	1490	1600	1690	1795	1400	1125	1315	1435	1545	1620	1730	1800
1600	1200	1330	1460	1565	1645	1740	1830	1600	1185	1370	1500	1610	1695	1790	1965
1800	1320	1405	1525	1615	1705	1785	1885	1800	1305	1485	1600	1685	1781	1955	2030
2000	1415	1515	1605	1690	1775	1875	1960	2000	1410	1550	1670	1765	1855	N/A	N/A

Mist Eliminator Filter in Intake Hood (2HP)

Barometric Hood, 2" Pleated Filters (2HP)

Notes

1. Drive losses included in the above tables
2. Performance can vary depending on ambient conditions
3. Blower RPMs are for reference only

RPM Range			
	Low	1000-1300	Standard Unit
	Medium	1300-1700	Optional Unit
	High	1750-2080	Optional Unit

ERDD

INTAKE BLOWER RPM								EXHAUST BLOWER RPM							
	External Static Pressure (In Water)								External Static Pressure (In Water)						
CFM	0	0.25	0.5	0.75	1	1.25	1.5	CFM	0	0.25	0.5	0.75	1	1.25	1.5
1200	N/A	790	960	1110	1210	1315	1380	1200	750	885	1015	1145	1260	1350	1485
1600	750	900	1005	1145	1230	1365	1410	1600	870	1015	1125	1215	1325	1410	1500
2000	900	1005	1105	1210	1275	1400	1450	2000	1015	1145	1240	1345	1410	1485	1560
2400	1005	1125	1210	1275	1365	1450	1500	2400	1125	1250	1345	1430	1500	1575	1630
2800	1125	1230	1315	1380	1450	1535	1600	2800	1250	1410	1485	1520	1630	1650	1675

Mist Eliminator Filter in Intake Hood (3HP)

Barometric Hood, 2" Pleated Filters (3HP)

Notes

1. Drive losses included in the above tables
2. Performance can vary depending on ambient conditions
3. Blower RPMs are for reference only

RPM Range			
	Low	750-975	Standard Unit
	Medium	1008-1314	Optional Unit
	High	1311-1708	Optional Unit

Blower Performance Data

ERDE

INTAKE BLOWER RPM								EXHAUST BLOWER RPM							
	External Static Pressure (In Water)								External Static Pressure (In Water)						
CFM	0	0.25	0.5	0.75	1	1.25	1.5	CFM	0	0.25	0.5	0.75	1	1.25	1.5
2000	725	825	900	1000	1070	1180	1250	2000	750	865	950	1030	1100	1200	1265
2400	800	900	1000	1070	1160	1250	1275	2400	820	950	1035	1100	1200	1265	1300
2800	900	1000	1070	1160	1250	1275	1340	2800	925	1035	1150	1200	1265	1315	1350
3200	1000	1070	1160	1250	1275	1340	1400	3200	1035	1160	1215	1265	1325	1350	1390
3600	1055	1180	1250	1300	1360	N/A	N/A	3600	1100	1215	1300	1350	1390	N/A	N/A

Mist Eliminator Filter in Intake Hood (3HP)

Barometric Hood, 2" Pleated Filters (3HP)

Notes

1. Drive losses included in the above tables
2. Performance can vary depending on ambient conditions
3. Blower RPMs are for reference only

RPM Range			
	Low	725-975	Standard Unit
	Medium	1000-1315	Optional Unit
	High	1215-1425	Optional Unit

ERDF

INTAKE BLOWER RPM								EXHAUST BLOWER RPM							
	External Static Pressure (In Water)								External Static Pressure (In Water)						
CFM	0	0.25	0.5	0.75	1	1.25	1.5	CFM	0	0.25	0.5	0.75	1	1.25	1.5
3000	900	1030	1100	1165	1240	1285	1350	3000	955	1100	1160	1245	1280	1360	1425
3400	975	1085	1175	1240	1290	1350	1400	3400	1055	1185	1245	1300	1375	1425	1480
3800	1070	1175	1240	1290	1350	1400	1465	3800	1160	1300	1360	1400	1425	1530	1585
4200	1165	1240	1320	1350	1430	1465	1515	4200	1245	1375	1450	1480	1500	1585	1650
4600	1240	1320	1375	1430	1500	1515	1580	4600	1360	1450	1500	1585	1600	1650	1700

Mist Eliminator Filter in Intake Hood (5HP)

Barometric Hood, 2" Pleated Filters (5HP)

Notes

1. Drive losses included in the above tables
2. Performance can vary depending on ambient conditions
3. Blower RPMs are for reference only

RPM Range			
	Low	780-1020	Standard Unit
	Medium	1000-1315	Optional Unit
	High	1315-1700	Optional Unit

ERDG

INTAKE BLOWER RPM								EXHAUST BLOWER RPM							
	External Static Pressure (In Water)								External Static Pressure (In Water)						
CFM	0	0.25	0.5	0.75	1	1.25	1.5	CFM	0	0.25	0.5	0.75	1	1.25	1.5
4600	815	900	975	1045	1085	1125	1175	4600	825	915	1000	1025	1100	1140	1170
5000	880	940	1015	1060	1135	1175	1215	5000	890	975	1025	1100	1140	1170	1240
5400	915	975	1045	1125	1150	1195	1250	5400	925	1000	1085	1140	1170	1240	1280
5800	975	1045	1085	1175	1250	1260	N/A	5800	975	1025	1140	1170	1240	N/A	N/A
6200	1000	1075	1165	1200	N/A	N/A	N/A	6200	1025	1120	1170	N/A	N/A	N/A	N/A

Mist Eliminator Filter in Intake Hood (5HP)

Barometric Hood, 2" Pleated Filters (5HP)

Notes

1. Drive losses included in the above tables
2. Performance can vary depending on ambient conditions
3. Blower RPMs are for reference only

RPM Range			
	Low	820-1000	Standard Unit
	Medium	1000-1200	Optional Unit
	High	1175-1375	Optional Unit

Blower Performance Data

ERTB

INTAKE BLOWER RPM								EXHAUST BLOWER RPM							
	External Static Pressure (In Water)								External Static Pressure (In Water)						
CFM	0	0.25	0.5	0.75	1	1.25	1.5	CFM	0	0.25	0.5	0.75	1	1.25	1.5
300	N/A	N/A	1075	1280	1390	1535	1635	300	N/A	1075	1180	1290	1445	1565	1645
500	N/A	1065	1275	1355	1505	1615	1670	500	N/A	1170	1285	1375	1470	1605	1725
700	1060	1270	1370	1525	1610	1660	1790	700	1065	1280	1370	1465	1600	1680	1800
900	1310	1455	1520	1605	1655	1820	1960	900	1255	1360	1460	1590	1675	1755	1865
1100	1445	1515	1625	1725	1815	1955	2035	1100	1445	1455	1585	1670	1750	1860	1935

Mist Eliminator Filter in Intake Hood (1.5HP)

Barometric Hood, 2" Pleated Filters (1.5HP)

Notes

1. Drive losses included in the above tables
2. Performance can vary depending on ambient conditions
3. Blower RPMs are for reference only

RPM Range			
	Low	1000-1300	Standard Unit
	Medium	1300-1700	Optional Unit
	High	1750-2200	Optional Unit

ERTC

INTAKE BLOWER RPM								EXHAUST BLOWER RPM							
	External Static Pressure (In Water)								External Static Pressure (In Water)						
CFM	0	0.25	0.5	0.75	1	1.25	1.5	CFM	0	0.25	0.5	0.75	1	1.25	1.5
1200	1100	1225	1315	1405	1440	1695	1725	1200	1045	1170	1380	1475	1635	1720	1805
1400	1220	1275	1400	1480	1620	1730	1790	1400	1115	1330	1470	1570	1725	1745	1850
1600	1225	1345	1475	1615	1715	1775	1890	1600	1320	1460	1565	1680	1790	1840	1940
1800	1335	1465	1610	1710	1765	1880	1930	1800	1415	1560	1725	1780	1885	1930	2045
2000	1380	1585	1680	1755	1815	1920	N/A	2000	1490	1660	1770	1875	1920	1985	N/A

Mist Eliminator Filter in Intake Hood (2HP)

Barometric Hood, 2" Pleated Filters (2HP)

Notes

1. Drive losses included in the above tables
2. Performance can vary depending on ambient conditions
3. Blower RPMs are for reference only

RPM Range			
	Low	1000-1300	Standard Unit
	Medium	1300-1700	Optional Unit
	High	1700-2080	Optional Unit

ERTD

INTAKE BLOWER RPM								EXHAUST BLOWER RPM							
	External Static Pressure (In Water)								External Static Pressure (In Water)						
CFM	0	0.25	0.5	0.75	1	1.25	1.5	CFM	0	0.25	0.5	0.75	1	1.25	1.5
1200	N/A	N/A	985	1115	1255	1390	1445	1200	N/A	N/A	1050	1210	1315	1375	1465
1600	N/A	975	1090	1190	1320	1320	1525	1600	N/A	1020	1200	1285	1365	1465	1545
2000	960	1085	1185	1315	1410	1410	1550	2000	1010	1190	1320	1355	1540	1580	1660
2400	1080	1240	1310	1405	1485	1485	1650	2400	1155	1315	1425	1545	1660	1735	1785
2800	1230	1395	1505	1535	1595	1595	1775	2800	1290	1450	1600	1725	1755	1825	1880

Mist Eliminator Filter in Intake Hood (3HP)

Barometric Hood, 2" Pleated Filters (3HP)

Notes

1. Drive losses included in the above tables
2. Performance can vary depending on ambient conditions
3. Blower RPMs are for reference only

RPM Range			
	Low	750-975	Standard Unit
	Medium	1008-1314	Optional Unit
	High	1311-1708	Optional Unit

Blower Performance Data

ERTE

INTAKE BLOWER RPM								EXHAUST BLOWER RPM							
	External Static Pressure (In Water)								External Static Pressure (In Water)						
CFM	0	0.25	0.5	0.75	1	1.25	1.5	CFM	0	0.25	0.5	0.75	1	1.25	1.5
2000	820	930	1015	1095	1160	1245	1315	2000	780	890	970	1065	1130	1235	1275
2400	920	1010	1090	1155	1240	1305	1405	2400	885	965	1060	1125	1230	1270	1340
2800	1000	1085	1150	1235	1295	1410	1500	2800	945	1055	1120	1225	1265	1355	1405
3200	1130	1200	1260	1395	1430	1495	1565	3200	1050	1135	1255	1325	1350	1415	1460
3600	1190	1385	1420	1455	1510	N/A	N/A	3600	1125	1250	1305	1340	1415	N/A	N/A

Mist Eliminator Filter in Intake Hood (3HP)

Barometric Hood, 2" Pleated Filters (3HP)

Notes

1. Drive losses included in the above tables
2. Performance can vary depending on ambient conditions
3. Blower RPMs are for reference only

RPM Range			
	Low	725-975	Standard Unit
	Medium	1000-1315	Optional Unit
	High	1215-1425	Optional Unit

ERTF

INTAKE BLOWER RPM								EXHAUST BLOWER RPM							
	External Static Pressure (In Water)								External Static Pressure (In Water)						
CFM	0	0.25	0.5	0.75	1	1.25	1.5	CFM	0	0.25	0.5	0.75	1	1.25	1.5
3000	925	1035	1110	1140	1235	1315	1350	3000	985	1085	1155	1280	1325	1370	1440
3400	1030	1120	1185	1225	1310	1345	1385	3400	1060	1150	1270	1320	1365	1430	1480
3800	1100	1150	1240	1335	1385	1420	1455	3800	1145	1265	1335	1400	1450	1475	1505
4200	1165	1245	1375	1435	1460	1505	1550	4200	1240	1330	1375	1460	1470	1515	1560
4600	1230	1315	1335	1470	1525	1585	1655	4600	1305	1400	1420	1485	1525	1550	1650

Mist Eliminator Filter in Intake Hood (5HP)

Barometric Hood, 2" Pleated Filters (5HP)

Notes

1. Drive losses included in the above tables
2. Performance can vary depending on ambient conditions
3. Blower RPMs are for reference only

RPM Range			
	Low	780-1020	Standard Unit
	Medium	1000-1315	Optional Unit
	High	1315-1700	Optional Unit

ERTG

INTAKE BLOWER RPM								EXHAUST BLOWER RPM							
	External Static Pressure (In Water)								External Static Pressure (In Water)						
CFM	0	0.25	0.5	0.75	1	1.25	1.5	CFM	0	0.25	0.5	0.75	1	1.25	1.5
4600	820	910	990	1020	1135	1165	1225	4600	875	935	1000	1025	1140	1175	1190
5000	885	965	1040	1100	1160	1225	1280	5000	910	975	1040	1130	1190	1200	1280
5400	910	1000	1095	1155	1215	1275	N/A	5400	945	1015	1095	1150	1230	1275	N/A
5800	960	1060	1145	1205	1265	1290	N/A	5800	990	1060	1125	1175	1265	N/A	N/A
6200	1020	1110	1195	1255	1275	N/A	N/A	6200	1010	1110	1195	1200	N/A	N/A	N/A

Mist Eliminator Filter in Intake Hood (5HP)

Barometric Hood, 2" Pleated Filters (5HP)

Notes

1. Drive losses included in the above tables
2. Performance can vary depending on ambient conditions
3. Blower RPMs are for reference only

RPM Range			
	Low	820-1000	Standard Unit
	Medium	1000-1200	Optional Unit
	High	1175-1375	Optional Unit

Blower Performance Data

ERSB

INTAKE BLOWER RPM								EXHAUST BLOWER RPM							
	External Static Pressure (In Water)								External Static Pressure (In Water)						
CFM	0	0.25	0.5	0.75	1	1.25	1.5	CFM	0	0.25	0.5	0.75	1	1.25	1.5
300	N/A	N/A	1020	1205	1365	1480	1590	300	N/A	N/A	1150	1285	1415	1515	1640
500	N/A	1015	1200	1320	1460	1565	1670	500	N/A	1145	1275	1410	1510	1545	1720
700	990	1190	1315	1455	1560	1665	1715	700	1140	1270	1405	1505	1590	1715	1815
900	1150	1310	1450	1555	1660	1680	1795	900	1320	1435	1585	1665	1705	1810	1930
1100	1305	1440	1550	1655	1740	1815	1895	1100	1495	1580	1660	1755	1880	N/A	N/A

Mist Eliminator Filter in Intake Hood (1.5HP)

Barometric Hood, 2" Pleated Filters (1.5HP)

Notes

1. Drive losses included in the above tables
2. Performance can vary depending on ambient conditions
3. Blower RPMs are for reference only

RPM Range			
	Low	1000-1300	Standard Unit
	Medium	1300-1700	Optional Unit
	High	1750-2200	Optional Unit

ERSC

INTAKE BLOWER RPM								EXHAUST BLOWER RPM							
	External Static Pressure (In Water)								External Static Pressure (In Water)						
CFM	0	0.25	0.5	0.75	1	1.25	1.5	CFM	0	0.25	0.5	0.75	1	1.25	1.5
1200	1065	1285	1375	1415	1495	1580	1685	1200	1175	1290	1430	1520	1680	1765	1850
1400	1140	1330	1410	1440	1555	1660	1760	1400	1245	1425	1515	1675	1755	1830	1920
1600	1290	1400	1480	1545	1670	1745	1835	1600	1400	1505	1670	1750	1825	1910	1980
1800	1395	1470	1540	1665	1735	1800	1880	1800	1495	1660	1740	1820	1900	1975	2090
2000	1460	1530	1650	1725	1795	1870	1960	2000	1645	1730	1815	1895	1965	2080	2170

Mist Eliminator Filter in Intake Hood (2HP)

Barometric Hood, 2" Pleated Filters (2HP)

Notes

1. Drive losses included in the above tables
2. Performance can vary depending on ambient conditions
3. Blower RPMs are for reference only

RPM Range			
	Low	1000-1300	Standard Unit
	Medium	1300-1700	Optional Unit
	High	1700-2080	Optional Unit

ERSD

INTAKE BLOWER RPM								EXHAUST BLOWER RPM							
	External Static Pressure (In Water)								External Static Pressure (In Water)						
CFM	0	0.25	0.5	0.75	1	1.25	1.5	CFM	0	0.25	0.5	0.75	1	1.25	1.5
1200	N/A	955	1070	1210	1370	1465	1550	1200	N/A	N/A	1025	1170	1270	1355	1400
1600	N/A	1065	1205	1305	1460	1540	1595	1600	N/A	1020	1155	1240	1330	1390	1490
2000	1060	1200	1290	1445	1530	1585	1680	2000	1015	1150	1235	1325	1380	1475	1590
2400	1190	1335	1440	1490	1575	1670	1755	2400	1140	1285	1365	1420	1510	1595	1640
2800	1300	1460	1550	1645	1705	1750	1800	2800	1280	1345	1455	1540	1575	1670	1745

Mist Eliminator Filter in Intake Hood (3HP)

Barometric Hood, 2" Pleated Filters (3HP)

Notes

1. Drive losses included in the above tables
2. Performance can vary depending on ambient conditions
3. Blower RPMs are for reference only

RPM Range			
	Low	750-975	Standard Unit
	Medium	1008-1314	Optional Unit
	High	1311-1708	Optional Unit

Blower Performance Data

ERSE

INTAKE BLOWER RPM								EXHAUST BLOWER RPM							
	External Static Pressure (In Water)								External Static Pressure (In Water)						
CFM	0	0.25	0.5	0.75	1	1.25	1.5	CFM	0	0.25	0.5	0.75	1	1.25	1.5
2000	815	925	1020	1105	1155	1255	1325	2000	755	890	970	1060	1125	1215	1280
2400	920	1060	1130	1215	1250	1355	1385	2400	985	1035	1085	1140	1240	1275	1325
2800	1010	1140	1240	1285	1370	1425	1470	2800	1020	1115	1175	1230	1270	1335	1370
3200	1125	1235	1340	1385	1455	1465	N/A	3200	1105	1200	1225	1285	1300	1390	1430
3600	1225	1375	1440	1460	1500	N/A	N/A	3600	1155	1265	1295	1335	1385	N/A	N/A

Mist Eliminator Filter in Intake Hood (3HP)

Barometric Hood, 2" Pleated Filters (3HP)

Notes

1. Drive losses included in the above tables
2. Performance can vary depending on ambient conditions
3. Blower RPMs are for reference only

RPM Range			
	Low	725-975	Standard Unit
	Medium	1000-1315	Optional Unit
	High	1215-1425	Optional Unit

ERSF

INTAKE BLOWER RPM								EXHAUST BLOWER RPM							
	External Static Pressure (In Water)								External Static Pressure (In Water)						
CFM	0	0.25	0.5	0.75	1	1.25	1.5	CFM	0	0.25	0.5	0.75	1	1.25	1.5
3000	965	1085	1150	1230	1295	1345	1420	3000	1010	1105	1195	1255	1300	1375	1415
3400	1035	1145	1250	1290	1335	1415	1475	3400	1100	1190	1250	1320	1370	1410	1480
3800	1120	1245	1285	1315	1440	1470	1535	3800	1185	1245	1360	1410	1440	1475	1540
4200	1215	1305	1355	1430	1465	1530	1595	4200	1240	1355	1425	1465	1530	1590	1630
4600	1300	1345	1450	1460	1540	1590	1650	4600	1345	1410	1485	1520	1585	1650	1700

Mist Eliminator Filter in Intake Hood (5HP)

Barometric Hood, 2" Pleated Filters (5HP)

Notes

1. Drive losses included in the above tables
2. Performance can vary depending on ambient conditions
3. Blower RPMs are for reference only

RPM Range			
	Low	780-1020	Standard Unit
	Medium	1000-1315	Optional Unit
	High	1315-1700	Optional Unit

ERSG

INTAKE BLOWER RPM								EXHAUST BLOWER RPM							
	External Static Pressure (In Water)								External Static Pressure (In Water)						
CFM	0	0.25	0.5	0.75	1	1.25	1.5	CFM	0	0.25	0.5	0.75	1	1.25	1.5
4600	795	900	1030	1075	1160	1220	1255	4600	705	885	985	1045	1100	1155	1215
5000	855	920	1070	1130	1190	1250	1275	5000	825	950	1025	1095	1150	1210	1245
5400	880	950	1095	1155	1245	1270	1290	5400	875	980	1080	1140	1190	1240	1275
5800	915	1035	1115	1175	1255	1280	N/A	5800	935	995	1130	1180	1230	N/A	N/A
6200	985	1080	1135	1225	1265	N/A	N/A	6200	985	1095	1165	N/A	N/A	N/A	N/A

Mist Eliminator Filter in Intake Hood (5HP)

Barometric Hood, 2" Pleated Filters (5HP)

Notes

1. Drive losses included in the above tables
2. Performance can vary depending on ambient conditions
3. Blower RPMs are for reference only

RPM Range			
	Low	820-1000	Standard Unit
	Medium	1000-1200	Optional Unit
	High	1175-1375	Optional Unit

Blower Performance Data

ERWB

INTAKE BLOWER RPM								EXHAUST BLOWER RPM							
	External Static Pressure (In Water)								External Static Pressure (In Water)						
CFM	0	0.25	0.5	0.75	1	1.25	1.5	CFM	0	0.25	0.5	0.75	1	1.25	1.5
300	N/A	N/A	980	1065	1320	1400	1520	300	N/A	815	1030	1185	1305	1450	1535
500	N/A	905	1050	1215	1360	1495	1595	500	N/A	950	1075	1220	1375	1490	1610
700	865	1035	1210	1330	1440	1535	1620	700	810	1070	1195	1295	1445	1510	1645
900	1030	1205	1325	1435	1530	1615	1725	900	995	1125	1290	1405	1500	1600	1690
1100	1200	1320	1430	1525	1605	1720	1800	1100	1120	1280	1400	1495	1595	1685	1770

Mist Eliminator Filter in Intake Hood (1.5HP)

Barometric Hood, 2" Pleated Filters (1.5HP)

Notes

1. Drive losses included in the above tables
2. Performance can vary depending on ambient conditions
3. Blower RPMs are for reference only

RPM Range			
	Low	1000-1300	Standard Unit
	Medium	1300-1700	Optional Unit
	High	1750-2200	Optional Unit

ERWC

INTAKE BLOWER RPM								EXHAUST BLOWER RPM							
	External Static Pressure (In Water)								External Static Pressure (In Water)						
CFM	0	0.25	0.5	0.75	1	1.25	1.5	CFM	0	0.25	0.5	0.75	1	1.25	1.5
1200	990	1075	1220	1380	1480	1605	1720	1200	900	1085	1235	1380	1495	1585	1680
1400	1030	1165	1280	1410	1520	1620	1740	1400	1050	1220	1345	1490	1535	1630	1715
1600	1135	1250	1340	1445	1570	1665	1760	1600	1205	1335	1430	1520	1625	1705	1790
1800	1240	1330	1425	1550	1625	1720	1785	1800	1315	1425	1510	1580	1655	1775	1850
2000	1295	1405	1540	1615	1705	1760	1830	2000	1390	1490	1570	1650	1735	1750	N/A

Mist Eliminator Filter in Intake Hood (2HP)

Barometric Hood, 2" Pleated Filters (2HP)

Notes

1. Drive losses included in the above tables
2. Performance can vary depending on ambient conditions
3. Blower RPMs are for reference only

RPM Range			
	Low	1000-1300	Standard Unit
	Medium	1300-1700	Optional Unit
	High	1700-2080	Optional Unit

ERWD

INTAKE BLOWER RPM								EXHAUST BLOWER RPM							
	External Static Pressure (In Water)								External Static Pressure (In Water)						
CFM	0	0.25	0.5	0.75	1	1.25	1.5	CFM	0	0.25	0.5	0.75	1	1.25	1.5
1200	N/A	900	1045	1135	1255	1395	1410	1200	N/A	955	1075	1185	1285	1355	1495
1600	880	1035	1130	1245	1385	1405	1450	1600	945	1055	1175	1265	1335	1445	1635
2000	1045	1145	1235	1325	1400	1440	1555	2000	1045	1170	1330	1395	1440	1570	1695
2400	1135	1300	1375	1435	1505	1550	1590	2400	1210	1325	1435	1510	1580	1620	1675
2800	1295	1365	1435	1515	1580	1625	1695	2800	1315	1475	1500	1595	1710	1755	1790

Mist Eliminator Filter in Intake Hood (3HP)

Barometric Hood, 2" Pleated Filters (3HP)

Notes

1. Drive losses included in the above tables
2. Performance can vary depending on ambient conditions
3. Blower RPMs are for reference only

RPM Range			
	Low	750-975	Standard Unit
	Medium	1008-1314	Optional Unit
	High	1311-1708	Optional Unit

Blower Performance Data

ERWE

INTAKE BLOWER RPM								EXHAUST BLOWER RPM							
	External Static Pressure (In Water)								External Static Pressure (In Water)						
CFM	0	0.25	0.5	0.75	1	1.25	1.5	CFM	0	0.25	0.5	0.75	1	1.25	1.5
2000	735	860	920	1005	1075	1150	1220	2000	740	855	930	970	1080	1155	1240
2400	850	945	1030	1090	1110	1215	1265	2400	800	925	1015	1075	1145	1225	1280
2800	935	1020	1080	1145	1200	1255	1335	2800	885	1010	1070	1140	1235	1255	1330
3200	1015	1075	1105	1195	1285	1325	1380	3200	950	1065	1135	1230	1290	1325	N/A
3600	1065	1125	1220	1305	N/A	N/A	N/A	3600	1055	1130	1235	1280	1310	N/A	N/A

Mist Eliminator Filter in Intake Hood (3HP)

Barometric Hood, 2" Pleated Filters (3HP)

Notes

1. Drive losses included in the above tables
2. Performance can vary depending on ambient conditions
3. Blower RPMs are for reference only

RPM Range			
	Low	725-975	Standard Unit
	Medium	1000-1315	Optional Unit
	High	1215-1425	Optional Unit

ERWF

INTAKE BLOWER RPM								EXHAUST BLOWER RPM							
	External Static Pressure (In Water)								External Static Pressure (In Water)						
CFM	0	0.25	0.5	0.75	1	1.25	1.5	CFM	0	0.25	0.5	0.75	1	1.25	1.5
3000	840	990	1065	1135	1215	1265	1335	3000	850	995	1065	1135	1220	1270	1335
3400	875	1060	1130	1205	1255	1320	1385	3400	925	1060	1130	1225	1265	1330	1375
3800	1015	1120	1200	1245	1315	1365	1450	3800	1020	1120	1220	1285	1325	1370	1430
4200	1080	1195	1240	1350	1395	1445	1510	4200	1100	1215	1280	1345	1400	1435	1480
4600	1120	1200	1315	1380	1460	1515	1560	4600	1150	1275	1340	1415	1475	1520	1565

Mist Eliminator Filter in Intake Hood (5HP)

Barometric Hood, 2" Pleated Filters (5HP)

Notes

1. Drive losses included in the above tables
2. Performance can vary depending on ambient conditions
3. Blower RPMs are for reference only

RPM Range			
	Low	780-1020	Standard Unit
	Medium	1000-1315	Optional Unit
	High	1315-1700	Optional Unit

ERWG

INTAKE BLOWER RPM								EXHAUST BLOWER RPM							
	External Static Pressure (In Water)								External Static Pressure (In Water)						
CFM	0	0.25	0.5	0.75	1	1.25	1.5	CFM	0	0.25	0.5	0.75	1	1.25	1.5
4600	795	900	960	1010	1090	1135	1165	4600	780	910	900	1045	1085	1135	1185
5000	835	945	1000	1060	1135	1155	1230	5000	825	945	1015	1075	1125	1180	1230
5400	895	985	1040	1130	1155	1220	1265	5400	890	990	1065	1105	1170	1220	1270
5800	940	1025	1085	1145	1225	1250	1300	5800	940	1025	1085	1165	1215	1250	1310
6200	990	1070	1105	1210	1245	1290	N/A	6200	980	1060	1150	1205	1235	1305	N/A

Mist Eliminator Filter in Intake Hood (5HP)

Barometric Hood, 2" Pleated Filters (5HP)

Notes

1. Drive losses included in the above tables
2. Performance can vary depending on ambient conditions
3. Blower RPMs are for reference only

RPM Range			
	Low	820-1000	Standard Unit
	Medium	1000-1200	Optional Unit
	High	1175-1375	Optional Unit

Blower Performance Data

EROB

INTAKE BLOWER RPM								EXHAUST BLOWER RPM							
	External Static Pressure (In Water)								External Static Pressure (In Water)						
CFM	0	0.25	0.5	0.75	1	1.25	1.5	CFM	0	0.25	0.5	0.75	1	1.25	1.5
300	N/A	N/A	1175	1350	1450	1605	1730	300	N/A	N/A	1030	1225	N/A	N/A	N/A
500	N/A	1170	1340	1540	1655	1725	1840	500	N/A	1025	1180	1265	1425	1535	N/A
700	1295	1425	1600	1625	1795	1960	2035	700	1120	1190	1340	1445	1540	1645	1720
900	1540	1660	1720	1790	2030	2110	2195	900	1285	1525	1500	1575	1670	1785	1865
1100	1785	1915	2025	2185	N/A	N/A	N/A	1100	1570	1665	1670	1775	1860	1920	N/A

Mist Eliminator Filter in Intake Hood (1.5HP)

Barometric Hood, 2" Pleated Filters (1.5HP)

Notes

1. Drive losses included in the above tables
2. Performance can vary depending on ambient conditions
3. Blower RPMs are for reference only

RPM Range			
	Low	1000-1300	Standard Unit
	Medium	1300-1700	Optional Unit
	High	1750-2200	Optional Unit

EROC

INTAKE BLOWER RPM								EXHAUST BLOWER RPM							
	External Static Pressure (In Water)								External Static Pressure (In Water)						
CFM	0	0.25	0.5	0.75	1	1.25	1.5	CFM	0	0.25	0.5	0.75	1	1.25	1.5
1200	1055	1135	1295	1420	1540	1650	1725	1200	1010	1195	1350	1445	1580	1685	1735
1400	1140	1240	1340	1490	1600	1690	1795	1400	1125	1315	1435	1545	1620	1730	1800
1600	1200	1330	1460	1565	1645	1740	1830	1600	1185	1370	1500	1610	1695	1790	1965
1800	1320	1405	1525	1615	1705	1785	1885	1800	1305	1485	1600	1685	1781	1955	2030
2000	1415	1515	1605	1690	1775	1875	1960	2000	1410	1550	1670	1765	1855	N/A	N/A

Mist Eliminator Filter in Intake Hood (2HP)

Barometric Hood, 2" Pleated Filters (2HP)

Notes

1. Drive losses included in the above tables
2. Performance can vary depending on ambient conditions
3. Blower RPMs are for reference only

RPM Range			
	Low	1000-1300	Standard Unit
	Medium	1300-1700	Optional Unit
	High	1700-2080	Optional Unit

EROD

INTAKE BLOWER RPM								EXHAUST BLOWER RPM							
	External Static Pressure (In Water)								External Static Pressure (In Water)						
CFM	0	0.25	0.5	0.75	1	1.25	1.5	CFM	0	0.25	0.5	0.75	1	1.25	1.5
1200	N/A	790	960	1110	1210	1315	1380	1200	750	885	1015	1145	1260	1350	1485
1600	750	900	1005	1145	1230	1365	1410	1600	870	1015	1125	1215	1325	1410	1500
2000	900	1005	1105	1210	1275	1400	1450	2000	1015	1145	1240	1345	1410	1485	1560
2400	1005	1125	1210	1275	1365	1450	1500	2400	1125	1250	1345	1430	1500	1575	1630
2800	1125	1230	1315	1380	1450	1535	1600	2800	1250	1410	1485	1520	1630	1650	1675

Mist Eliminator Filter in Intake Hood (3HP)

Barometric Hood, 2" Pleated Filters (3HP)

Notes

1. Drive losses included in the above tables
2. Performance can vary depending on ambient conditions
3. Blower RPMs are for reference only

RPM Range			
	Low	750-975	Standard Unit
	Medium	1008-1314	Optional Unit
	High	1311-1708	Optional Unit

Blower Performance Data

EROE

INTAKE BLOWER RPM								EXHAUST BLOWER RPM							
	External Static Pressure (In Water)								External Static Pressure (In Water)						
CFM	0	0.25	0.5	0.75	1	1.25	1.5	CFM	0	0.25	0.5	0.75	1	1.25	1.5
2000	725	825	900	1000	1070	1180	1250	2000	750	865	950	1030	1100	1200	1265
2400	800	900	1000	1070	1160	1250	1275	2400	820	950	1035	1100	1200	1265	1300
2800	900	1000	1070	1160	1250	1275	1340	2800	925	1035	1150	1200	1265	1315	1350
3200	1000	1070	1160	1250	1275	1340	1400	3200	1035	1160	1215	1265	1325	1350	1390
3600	1055	1180	1250	1300	1360	N/A	N/A	3600	1100	1215	1300	1350	1390	N/A	N/A

Mist Eliminator Filter in Intake Hood (3HP)

Barometric Hood, 2" Pleated Filters (3HP)

Notes

1. Drive losses included in the above tables
2. Performance can vary depending on ambient conditions
3. Blower RPMs are for reference only

RPM Range			
	Low	725-975	Standard Unit
	Medium	1000-1315	Optional Unit
	High	1215-1425	Optional Unit

EROF

INTAKE BLOWER RPM								EXHAUST BLOWER RPM							
	External Static Pressure (In Water)								External Static Pressure (In Water)						
CFM	0	0.25	0.5	0.75	1	1.25	1.5	CFM	0	0.25	0.5	0.75	1	1.25	1.5
3000	900	1030	1100	1165	1240	1285	1350	3000	955	1100	1160	1245	1280	1360	1425
3400	975	1085	1175	1240	1290	1350	1400	3400	1055	1185	1245	1300	1375	1425	1480
3800	1070	1175	1240	1290	1350	1400	1465	3800	1160	1300	1360	1400	1425	1530	1585
4200	1165	1240	1320	1350	1430	1465	1515	4200	1245	1375	1450	1480	1500	1585	1650
4600	1240	1320	1375	1430	1500	1515	1580	4600	1360	1450	1500	1585	1600	1650	1700

Mist Eliminator Filter in Intake Hood (5HP)

Barometric Hood, 2" Pleated Filters (5HP)

Notes

1. Drive losses included in the above tables
2. Performance can vary depending on ambient conditions
3. Blower RPMs are for reference only

RPM Range			
	Low	780-1020	Standard Unit
	Medium	1000-1315	Optional Unit
	High	1315-1700	Optional Unit

EROG

INTAKE BLOWER RPM								EXHAUST BLOWER RPM							
	External Static Pressure (In Water)								External Static Pressure (In Water)						
CFM	0	0.25	0.5	0.75	1	1.25	1.5	CFM	0	0.25	0.5	0.75	1	1.25	1.5
4600	815	900	975	1045	1085	1125	1175	4600	825	915	1000	1025	1100	1140	1170
5000	880	940	1015	1060	1135	1175	1215	5000	890	975	1025	1100	1140	1170	1240
5400	915	975	1045	1125	1150	1195	1250	5400	925	1000	1085	1140	1170	1240	1280
5800	975	1045	1085	1175	1250	1260	N/A	5800	975	1025	1140	1170	1240	N/A	N/A
6200	1000	1075	1165	1200	N/A	N/A	N/A	6200	1025	1120	1170	N/A	N/A	N/A	N/A

Mist Eliminator Filter in Intake Hood (5HP)

Barometric Hood, 2" Pleated Filters (5HP)

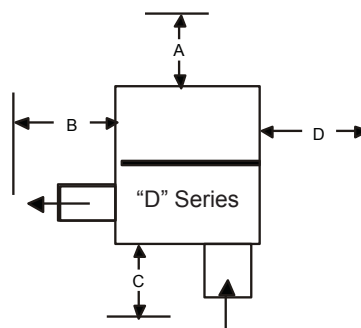
Notes

1. Drive losses included in the above tables
2. Performance can vary depending on ambient conditions
3. Blower RPMs are for reference only

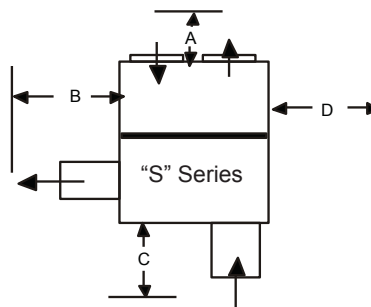
RPM Range			
	Low	820-1000	Standard Unit
	Medium	1000-1200	Optional Unit
	High	1175-1375	Optional Unit

Service Clearances

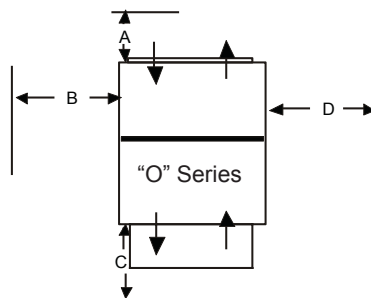
Dimension (Inches)	ERD Series							
	ERDB	ERDC	ERDD	ERDE	ERDF	ERDG	ERDH	ERDJ
A	36	36	36	36	36	36	36	36
B	60	60	60	60	60	60	72	84
C	48	60	60	60	72	72	72	72
D	36	36	48	48	60	60	72	84



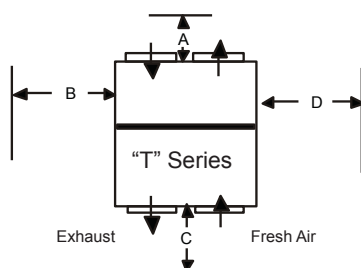
Dimension (Inches)	ERS Series					
	ERSB	ERSC	ERSD	ERSE	ERSF	ERSG
A	12	12	12	12	12	12
B	60	60	60	60	60	60
C	48	60	60	60	72	72
D	36	36	48	48	60	60



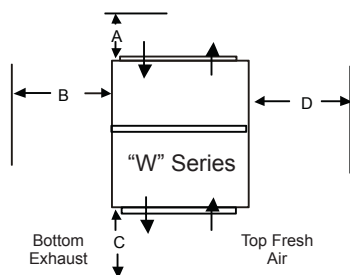
Dimension (Inches)	ERO Series					
	EROB	EROC	EROD	EROE	EROF	EROG
A	12	12	12	12	12	12
B	36	36	36	36	36	36
C	48	60	60	60	60	60
D	36	36	48	48	60	60



Dimension (Inches)	ERT Series					
	ERTB	ERTC	ERTD	ERTE	ERTF	ERTG
A	12	12	12	12	12	12
B	36	36	36	36	36	36
C	36	36	36	36	36	36
D	36	36	48	48	60	60



Dimension (Inches)	ERW Series					
	ERWB	ERWC	ERWD	ERWE	ERWF	ERWG
A	12	12	12	12	12	12
B	36	36	36	36	36	36
C	36	36	36	36	36	36
D	36	36	48	48	60	60



Physical Data

Model	EROB, ERWB	ERDB, ERSB, ERTB	EROC, ERWC, ERDC, ERSC, ERTC	EROD, ERWD, ERDD, ERSD, ERTD	EROE, ERWE, ERDE, ERSE, ERTE	EROF, ERWF, ERDF, ERSF, ERTF	EROG, ERWG, ERDG, ERSG, ERTG	ERDH	ERDJ
Fresh Air Blower									
(hp) [kw]	1.5 [1.12]	1.5 [1.12]	2 [1.49]	3 [2.24]	3 [2.24]	5 [3.73]	5 [3.73]	10 [7.46]	15 [11.19]
Motor Speed -rpm	1725								
Blower Size (in) [cm]	9 x 4 [22.9 x 10.2]	9 x 4 [22.9 x 10.2]	9 x 9 [22.9 x 22.9]	10 x 10 [25.4 x 25.4]	12 x 9 [30.5 x 22.9]	12 x 12 [30.5 x 30.5]	15 x 15 [38.1 x 38.1]	15 x 15 [38.1 x 38.1]	22 x 15 [55.9 x 38.1]
Blower Speed	Adj Sheave								
Type Drive	Belt								
Exhaust Air Blower									
(hp) [kw]	1.5 [1.12]	1.5 [1.12]	2 [1.49]	3 [2.24]	3 [2.24]	5 [3.73]	5 [3.73]	7.5 [5.59]	10 [7.46]
Motor Speed -rpm	1725								
Blower Size (in) [cm]	9 x 4 [22.9 x 10.2]	9 x 4 [22.9 x 10.2]	9 x 9 [22.9 x 22.9]	10 x 10 [25.4 x 25.4]	12 x 9 [30.5 x 22.9]	12 x 12 [30.5 x 30.5]	12 x 12 [30.5 x 30.5]	18 x 18 [45.7 x 45.7]	22 x 22 [55.9 x 55.9]
Blower Speed	Adj Sheave								
Type Drive	Belt								
Wheel Data									
Wheel Depth (in) [cm]	3 [7.62]								
Wheel Diameter (in) [cm]	25.3 [64.3]	25.3 [64.3]	30.3 [77.0]	37.8 [96.0]	41.8 [106.2]	46.8 [118.9]	52.0 [132.1]	58.0 [147.3]	74.0 188.0]
Construction	Segmented								
Media	Polymeric								
Wheel Motor Speed	1050	1050	1050	825	1075	1075	1075	1725	1725
HP	Frac.	Frac.	Frac.	0.05	0.17	0.17	0.17	0.25	0.25
Weights									
Shipping Weights (lb)	389	389	650	876	950	1228	1380	2800	3000
Net Weight (lb)	314	314	570	801	854	1113	1205	2600	2800
Curb Height (in) [cm]	14 [35.6]								

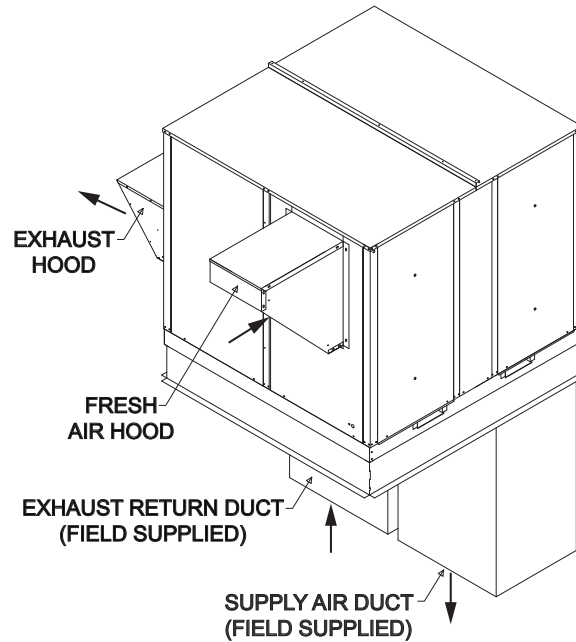
Filter Sizes

Series	Size	Return Filter				Intake Filter			
		Qty	Width	Height	Type	Qty	Width	Height	Type
ERD	ERDB	1	14	20	2" MERV 8	1	16.25	10.375	1" MERV 8
	ERDC	2	16	20		1	12.5	20	
	ERDD	2	20	20		1	14.75	32.25	
	ERDE	3	16	20		1	16.5	32.25	
	ERDF	2	24	24		1	20	36	
	ERDG	5	14	20		1/1	20 / 20	36 / 12.5	
	ERDH	6	18	20		2	32.25	21.5	
	ERDJ	8	20	20		3	32.25	20.25	
ERT	ERTB	1	14	20	2" MERV 8	1	14	20	2" MERV 8
	ERTC	2	16	16		2	16	16	
	ERTD	2	20	20		2	20	20	
	ERTE	3	16	20		3	16	20	
	ERTF	2	24	24		2	24	24	
	ERTG	5	14	20		5	14	20	
ERW	ERWB	1	18	25	2" MERV 8	1	18	25	2" MERV 8
	ERWC	2	16	16		2	16	16	
	ERWD	2	20	20		2	20	20	
	ERWE	2/1	16 / 14	20		2/1	16 / 14	20	
	ERWF	2	24	24		2	24	24	
	ERWG	5	14	20		5	14	20	
ERO	EROB	1	18	25	2" MERV 8	1	27.5	10	1" MERV 8
	EROC	2	16	16		1	32.25	18.5	
	EROD	2	20	20		1	40.25	21.5	
	EROE	2/1	16 / 14	20		1	40.25	21.5	
	EROF	2	24	24		1	40.25	21.5	
	EROG	5	14	20		1	40.25	25.5	
ERS	ERSB	1	14	20	2" MERV 8	1	16.25	10.375	1" MERV 8
	ERSC	2	16	20		1	12.5	20	
	ERSD	2	20	20		1	14.75	32.25	
	ERSE	3	16	20		1	16.5	32.25	
	ERSF	2	24	24		1	20	36	
	ERSG	5	14	20		1/1	20 / 20	36 / 12.5	

ERV Electrical Data

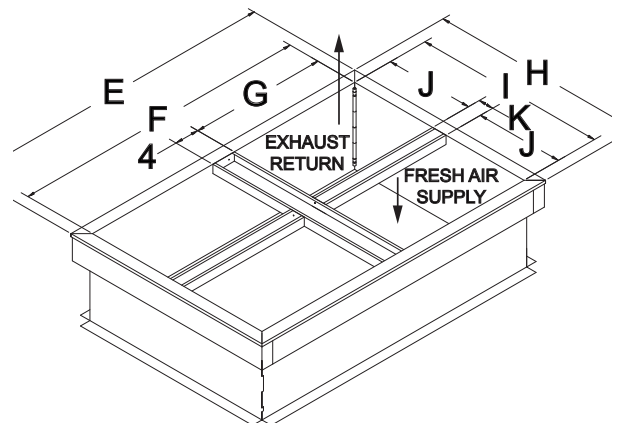
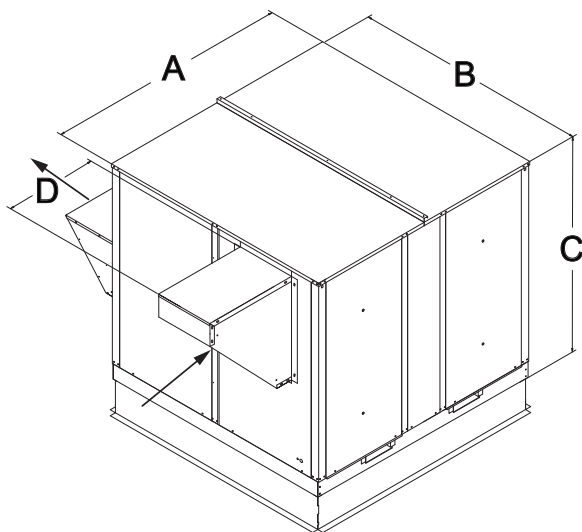
Model #	Voltage	Min/Max Voltage	Supply Air Blower			Exhaust Air Blower			Wheel FLA	Total Unit FLA	Min Circuit Amp	Max Fuse/ HACR
			HP	FLA	SF	HP	FLA	SF				
ERDB EROB ERWB ERSB ERTB	208/230/1	197/254	1.5	9.1	1.15	1.5	9.1	1.15	0.3	18.5	20.8	40
	208/230/3	197/255	1.5	5.6	1.15	1.5	5.6	1.15	0.3	11.5	12.9	25
	460/3	414/506	1.5	2.8	1.15	1.5	2.8	1.15	0.3	5.9	6.6	15
	575/3	518/633	1.5	2.0	1.15	1.5	2.0	1.15	0.3	4.3	4.8	15
ERDC EROC ERWC ERSC ERTC	208/230/3	197/255	2	6.0	1.15	2	6.0	1.15	0.3	12.3	13.8	25
	460/3	414/506	2	2.6	1.15	2	2.6	1.15	0.3	5.5	6.2	15
	575/3	518/633	2	2.4	1.15	2	2.4	1.15	0.3	5.1	5.7	15
ERDD EROD ERWD ERSD ERTD	208/230/3	197/255	3	9.4	1.15	3	9.4	1.15	0.6	19.4	21.8	40
	460/3	414/506	3	4.3	1.15	3	4.3	1.15	0.6	9.2	10.3	20
	575/3	518/633	3	3.2	1.15	3	3.2	1.15	0.6	7.0	7.8	15
ERDE EROE ERWE ERSE ERTE	208/230/3	197/255	3	9.4	1.15	3	9.4	1.15	1.2	20.0	22.4	40
	460/3	414/506	3	4.3	1.15	3	4.3	1.15	1.2	9.8	10.9	20
	575/3	518/633	3	3.2	1.15	3	3.2	1.15	1.2	7.6	8.4	15
ERDF EROF ERWF ERSF ERTF	208/230/3	197/255	5	14.8	1.15	5	14.8	1.15	1.2	30.8	34.5	70
	460/3	414/506	5	7.0	1.15	5	7.0	1.15	1.2	15.2	17.0	30
	575/3	518/633	5	5.1	1.15	5	5.1	1.15	1.2	11.4	15.0	25
ERDG EROG ERSG ERTG	208/230/3	197/255	5	14.8	1.15	5	14.8	1.15	1.2	30.8	34.5	70
	460/3	414/506	5	7.0	1.15	5	7.0	1.15	1.2	15.2	17.0	30
	575/3	518/633	5	5.1	1.15	5	5.1	1.15	1.2	11.4	15.0	25
ERDH	208/230/3	197/255	10	26.8	1.15	7.5	22.4	1.15	2.5	51.7	63.2	100
	460/3	414/506	10	13.4	1.15	7.5	9.7	1.15	1.2	24.3	27.7	50
	575/3	518/633	10	10.3	1.15	7.5	7.8	1.15	1.4	19.5	22.1	40
ERDJ	208/230/3	197/255	15	41.0	1.15	10	32.6	1.15	2.5	76.1	86.2	150
	460/3	414/506	15	18.5	1.15	10	13.4	1.15	1.2	33.1	37.7	70
	575/3	518/633	15	15.4	1.15	10	10.3	1.15	1.4	27.1	31.0	50

ERV D Series Dimensional Data

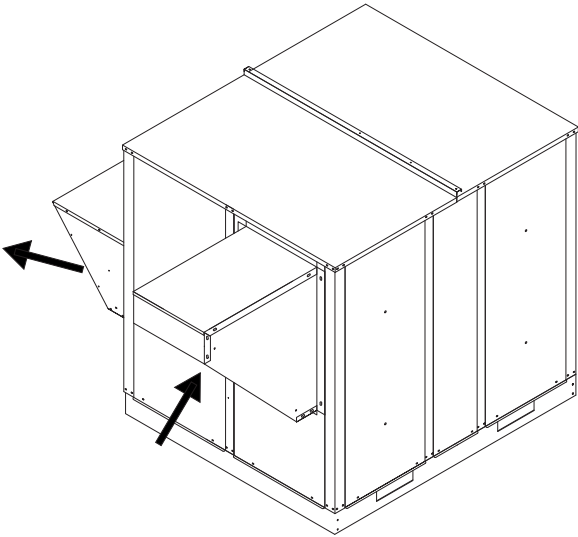


ERV Roof Curbs	
Series	Model No
ERDB	ACURB EV G EVBAANS
ERDC	ACURB EV G EVCAANS
ERDD	ACURB EV G EVDAANS
ERDE	ACURB EV G EVEAANS
ERDF	ACURB EV G EVFAANS
ERDG	ACURB EV G EVGAANS

ERV Data		Dimensional Data											
Series	CFM Range	Duct Size Gx J	ERV				Roof Curb						
			A	B	C	D	E	F	G	H	I	J	K
ERDB	300-1100	17.00 x 11.38	44.75	32.13	33.5	14.38	43	39	17.5	30.25	26.25	11.88	2.5
ERDC	1200-2000	21.88 x 14.00	54.38	37.25	37.5	17.5	52.75	48.75	22.38	35.5	31.5	14.5	2.5
ERDD	1200-2800	20.25 x 17.00	52.25	42.63	43.56	25.5	49.5	45.5	20.75	41	37	17.5	2
ERDE	2000-3600	23.38 x 17.38	60	46.69	57.37	25.5	55.75	51.75	23.88	41.81	37.81	17.91	2
ERDF	3000-4600	23.38 x 20.38	60	52.69	57.37	28.06	55.75	51.75	23.88	47.81	43.81	20.91	2
ERDG	4600-6200	29.38 x 30.00	72	70.88	63.63	37.75	67.75	63.75	29.88	66	62	30.5	2

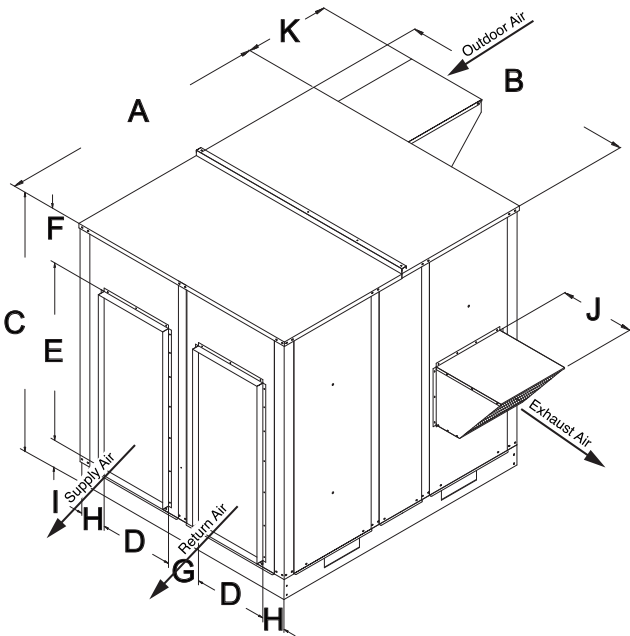


ERV S Series Dimensional Data



ERV Roof Curbs	
Series	Model No
ERSB	ACURB EV G EVBAANS
ERSC	ACURB EV G EVCAANS
ERSD	ACURB EV G EVDAANS
ERSE	ACURB EV G EVEAANS
ERSF	ACURB EV G EVFAANS
ERSG	ACURB EV G EVGAANS

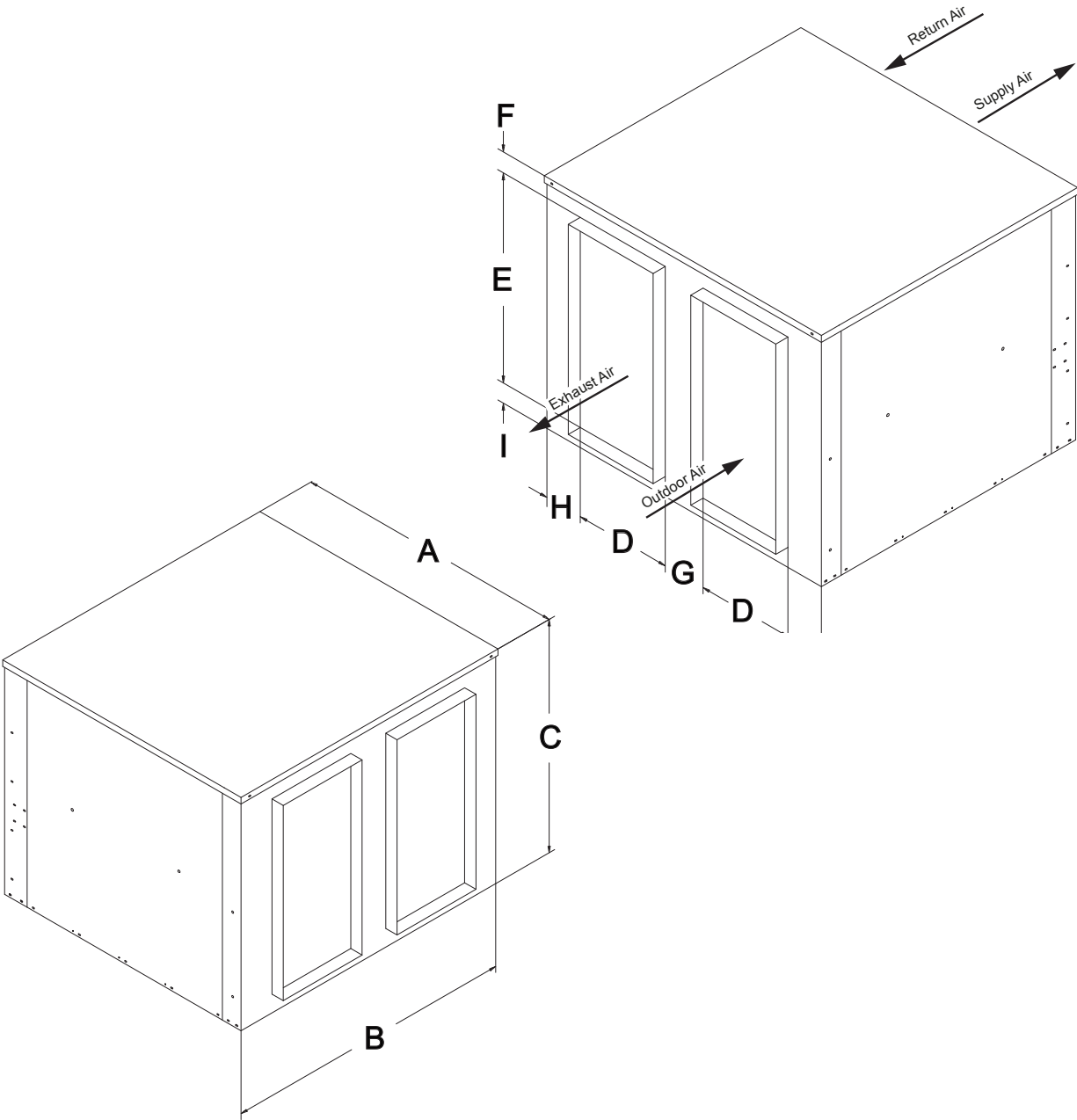
ERV Data		Dimensional Data										
Series	CFM Range	A	B	C	D	E	F	G	H	I	J	K
ERSB	300-1100	44.75	32.13	33.5	11	27	4	4.25	2.88	2.5	20.75	14.38
ERSC	1200-2000	54.38	37.25	37.5	12	30	5.87	5.13	4.06	1.63	20.75	17.5
ERSD	1200-2800	52.25	42.63	43.56	14	32	8.69	5.25	4.25	2.88	20.75	25.5
ERSE	2000-3600	60	46.69	57.37	16.5	39.5	12	5.5	4.05	5.88	20.75	25.5
ERSF	3000-4600	60	52.69	57.37	16.5	39.5	12	8.69	5.5	5.88	20.75	28.06
ERSG	4600-6200	72	70.88	63.63	19.5	39.5	17.53	14.5	8.7	6.6	20.75	37.75



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ERV T Series Dimensional Data

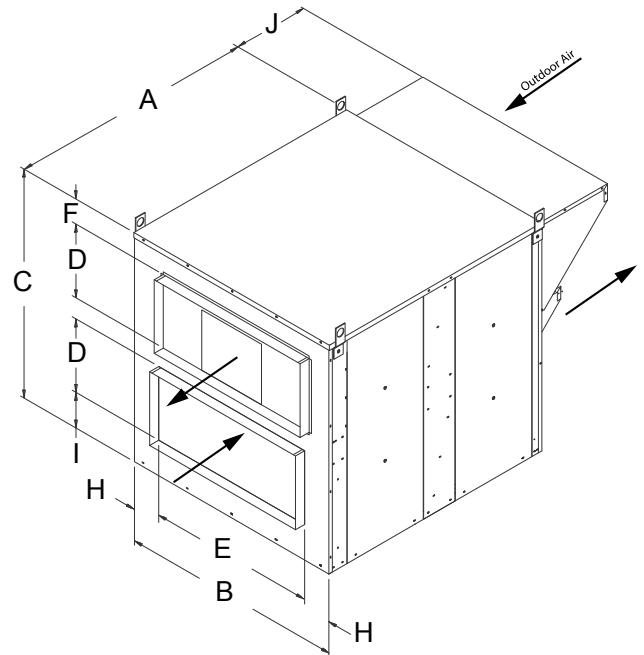
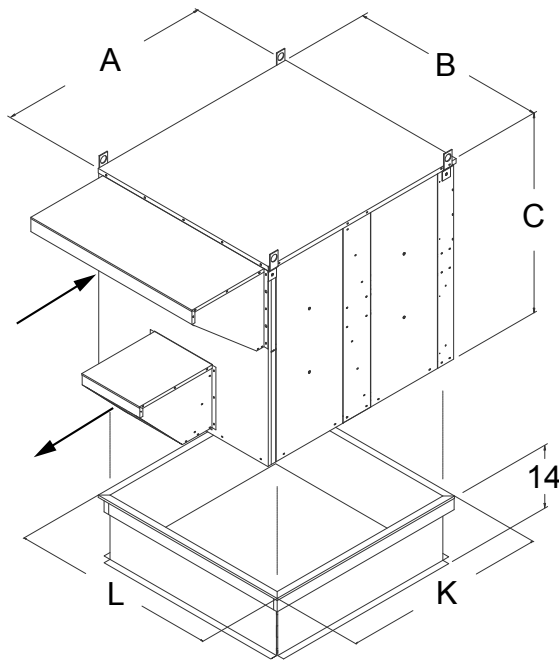
ERV Data		Dimensional Data								
Series	CFM Range	ERV				Roof Curb				
		A	B	C	D	E	F	G	H	I
ERTB	300-1100	44.75	32.13	33.50	11.00	27.00	4.00	4.25	2.88	2.50
ERTC	1200-2000	54.38	37.25	37.50	12.00	30.00	5.87	5.13	4.06	1.63
ERTD	1200-2800	52.25	42.63	43.56	14.00	32.00	8.69	5.25	4.25	2.88
ERTE	2000-3600	60.00	46.69	57.37	16.50	39.50	12.00	5.50	4.05	5.88
ERTF	3000-4600	60.00	52.69	57.37	16.50	39.50	12.00	8.69	5.50	5.88
ERTG	4600-6200	72.00	70.88	63.63	19.50	39.50	17.53	14.50	8.70	6.60



ERV O Series Dimensional Data

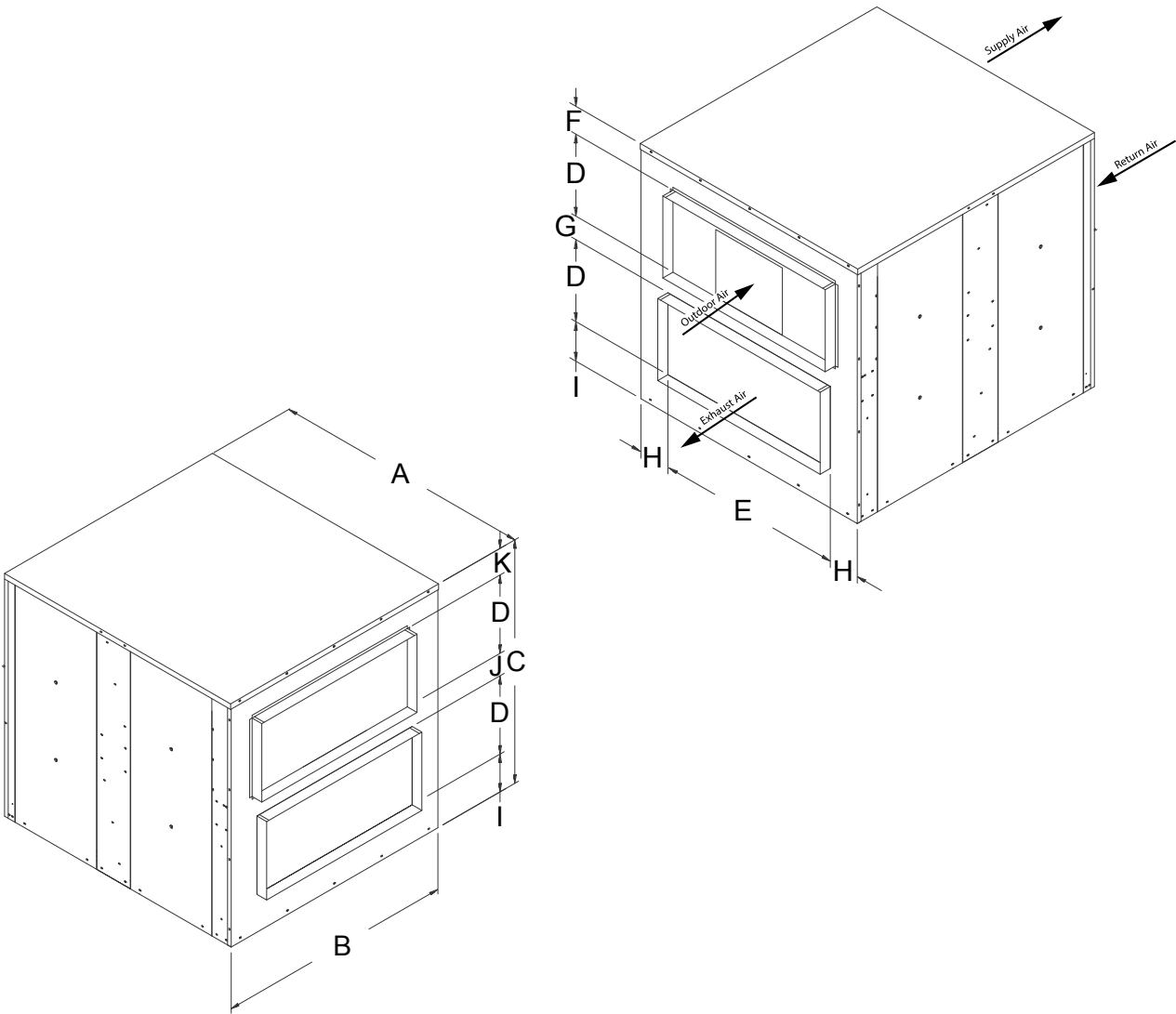
ERV Roof Curbs	
Series	Model No
EROB	ACURB EV G EVBAANS
EROC	ACURB EV G EVCAANS
EROD	ACURB EV G EVDAANS
EROE	ACURB EV G EVEAANS
EROF	ACURB EV G EVFAANS
EROG	ACURB EV G EVGAANS

ERV Data		Dimensional Data											
Series	CFM Range	A	B	C	D	E	F	G	H	I	J	K	L
EROB	300-1100	56.75	32.13	39.50	11.00	27.00	6.50	10.00	2.56	1.00	11.00	55.00	30.25
EROC	1200-2000	54.38	37.25	37.50	12.00	30.00	8.00	4.00	3.63	1.50	20.32	52.75	35.50
EROD	1200-2800	60.00	42.63	43.56	14.00	32.00	9.56	4.50	5.31	1.50	18.32	49.50	41.00
EROE	2000-3600	60.00	46.69	57.37	16.50	39.50	12.13	6.38	3.59	5.88	18.32	55.75	41.81
EROF	3000-4600	60.00	52.69	57.37	16.50	39.50	12.13	6.38	6.59	5.88	18.32	55.75	47.81
EROG	4600-6200	72.00	70.88	63.63	19.50	39.50	12.13	6.50	15.69	5.88	18.32	67.75	66.00



ERV W Series Dimensional Data

ERV Data		Dimensional Data										
Series	CFM Range	A	B	C	D	E	F	G	H	I	J	K
ERWB	300-1100	56.75	32.13	39.50	11.00	27.00	6.50	10.00	2.56	1.00	10.00	6.50
ERWC	1200-2000	54.38	37.25	37.50	12.00	30.00	8.00	4.00	3.63	1.50	7.00	5.00
ERWD	1200-2800	60	42.63	43.56	14.00	32.00	9.56	4.50	5.31	1.50	8.81	5.25
ERWE	2000-3600	60	46.69	57.37	16.50	39.50	12.13	6.38	3.59	5.88	11.75	6.75
ERWF	3000-4600	60	52.69	57.37	16.50	39.50	12.13	6.38	6.59	5.88	11.75	6.75
ERWG	4600-6200	72	70.88	63.63	19.50	39.50	12.13	6.50	15.69	5.88	12.00	6.75



ERV Series 60Hz

Engineering Specifications – Page 1

Revised: May 8, 2014

General

The ClimateMaster ERV unit is an outdoor rooftop mounted, electrically controlled outdoor air pre-conditioner utilizing an AirExchange Energy Recovery Cassette used to reduce the heating and cooling load placed on the space HVAC unit by untreated outside air.

Unit shall be ETL Agency tested and certified. Roof curb(s) shall be designed to conform to NRCA Standards. Insulations and adhesives shall meet NFPA 90A requirements for flame spread and smoke generation. Unit casing shall be designed to withstand Federal Test Method Standard No. 141 (Method 6061) 500-hour salt spray test.

Products

The ERV unit shall be a factory assembled, single piece unit. Contained within the unit cabinet shall be all factory wiring with a single, pre-determined point of power input and a single point connection for 24 volt control wiring.

Unit Cabinet

Unit cabinet shall be constructed of galvanized steel coated with a pre-painted baked enamel finish. The cabinet interior shall be insulated with 1-inch, 2 lb. density foil or Kraft faced insulation. Insulation contained within a double wall construction with an equivalent R-value may be substituted. Cabinet access panels shall utilize quarter turn compression latches. Supply air streams shall have back draft dampers to prevent air infiltration during OFF cycles. Cabinet construction shall be such to allow entire wheel assembly to slide out to facilitate maintenance. Holes shall be provided in the base rails to facilitate overhead rigging.

Blowers

Blowers shall be belt driven. Motor shall include an adjustable pitch sheave for CFM adjustment. Blower wheel shall be made from steel with a corrosion resistant finish. Wheel shall be dynamically balanced, double inlet type with forward curved blades. Motor shall be mounted on an easily accessible slide base for ease of belt replacement and adjustment.

Filter Section

Standard filter section shall consist of commercially available filters. Filters shall be provided for the outside air entering and the return air entering sides of the Energy Recovery Cassette.

Controls and Safeties

ERV units shall capable of operation as a stand-alone unit.

Option: A Frost Protection mode shall be provided to prevent supply motor overload.

Option: Motorized dampers for the supply and/or exhaust dampers shall be provided.

Option: An Economizer mode shall be provided to allow "free cooling" when outside air conditions permit.

Option: A Stop-Jog timer shall be provided for the economizer mode to prevent dirt accumulation on one segment of the wheel.

Electrical Requirements

All unit power shall enter the unit cabinet at a single location. Single point power connection shall be standard. A single point connection shall be provided for start/stop control from a time clock or BMS contact for stand-alone ERV operation.

Energy Recovery Cassette

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ERV Series 60Hz

Engineering Specifications – Page 2

The Energy Recovery Cassette media shall be nominal 70% effective. Efficiency ratings shall be ARI 1060 Certified. The wheel must have desiccant permanently integrated into the media of the wheel. The Energy Recovery Cassette shall be a UL Recognized component for electrical and fire safety. The Energy Recovery wheel shall be segmented to facilitate maintenance.

Special Features

Roof Curb Options

- a. Roof curb shall be formed of heavy gauge galvanized steel with full perimeter wood nailer strip and shall be capable of supporting entire weight of unit(s).
- b. Several curb configurations shall be available

Option: Curb shall be 14" or 24" high knockdown type suitable for stand-alone ERV applications.

Option: Curb shall be wind rated and shall include certification letter and attachment straps.

Option: Curb shall be seismic rated and shall include certification letter and attachment straps.

Option: Curb shall be suitable for horizontal air return and discharge applications.

Option: Vibration isolation shall be available for all curb types.

Non-Fused disconnect option

- a. A unit mounted non-fused disconnect switch shall be provided.

Frost Protection option

- a. Frost protection module shall sense ambient temperature.
- b. Supply blower must be stopped when the ambient temperature drops below predetermined setpoint. The supply blower will resume operation when the pressure differential drops below the setpoint minus the differential.
- c. Exhaust blower and wheel motor shall remain in operation during the Frost Protection cycle to remove frost build-up from the cassette.

Filter Maintenance Indicator – A pressure differential switch is provided to indicate the pressure drop across the filters have reached a point the filters require replacement.

Low Temperature lockout – A lockout thermostat is provided for use in extreme conditions to de-energize the ERV unit to prevent outside air from entering the space that is too cold.

Motorized Supply and/or Exhaust Damper(s) – A 24 VAC, 2-position actuator shall be provided for the outdoor air supply and/or exhaust air damper(s).

Performance Sheet

SUBMITTAL DATA - S-I UNITS

Unit Designation: _____

Job Name: _____

Architect: _____

Engineer: _____

Contractor: _____

PERFORMANCE DATA

Cooling Capacity: _____ kW

EER: _____

Heating Capacity: _____ kW

COP: _____

Ambient Air Temp: _____ °C

Entering Water Temp (Clg): _____ °C

Entering Air Temp (Clg): _____ °C

Entering Water Temp (Htg): _____ °C

Entering Air Temp (Htg): _____ °C

Airflow: _____ l/s

Fan Speed or Motor/RPM/Turns: _____

Operating Weight: _____ (kg)

ELECTRICAL DATA

Power Supply: _____ Volts

_____ Phase _____ Hz

Minimum Circuit Ampacity: _____

Maximum Overcurrent Protection: _____

SUBMITTAL DATA - I-P UNITS

Unit Designation: _____

Job Name: _____

Architect: _____

Engineer: _____

Contractor: _____

PERFORMANCE DATA

Cooling Capacity: _____ Btuh

EER: _____

Heating Capacity: _____ Btuh

COP: _____

Ambient Air Temp: _____ °F

Entering Water Temp (Clg): _____ °F

Entering Air Temp (Clg): _____ °F

Entering Water Temp (Htg): _____ °F

Entering Air Temp (Htg): _____ °F

Airflow: _____ CFM

Fan Speed or Motor/RPM/Turns: _____

Operating Weight: _____ (lb)

ELECTRICAL DATA

Power Supply: _____ Volts

_____ Phase _____ Hz

Minimum Circuit Ampacity: _____

Maximum Overcurrent Protection: _____

Revision History

Date:	Item:	Action:
09/24/21	Decoder	Updated Curb decoder pg 5
11/15/16	Document Design Update	Updated
01/26/16	Edits - pages 6, 27, 28, 30	Updated
10/12/15	D, S, O, T, and W Series Service Clearances Tables & Drawings	Added
05/18/15	Decoders; Model Number Change	ERV Decoder to Rev. C; Curb Decoder to Rev. G, Stand Alone Indoor Unit Model Number Change ERU to ERW
05/01/15	Decoder; Stand Alone Indoor Model Number	Change to Rev. B; Update Model Number
11/03/14	Misc. Edits	Updated
04/04/14	ERV photos - page 1 & 2	Updated
02/27/14	Decoders - page 6	Updated
11/21/13	Edits - pages 4, 25, 26	Updated
07/16/13	All	Updated
04/09/12	ERV Match up Guide	Added note
04/07/11	Engineering Specifications NOTICE	Updated
01/03/11	Format-All Pages	Updated
09/15/10	Drawings, Electrical Data, Fan Curves, Engineering Specifications	Updated
04/28/10	Specs, Electrical Data	Added
07/24/08	ERV Narrative on Page 3	Added
11/16/06	Roofcurb Data	Added missing dimensional information
11/30/05	Various	Formatting changes
08/18/05	Unit Effectiveness	Changed "Efficiencies" to "Effectiveness:
08/18/05	Cabinet Physical Size (All Cabinets)	Removed "(horizontal units)"
08/18/05	Added Change Log	