

## O-SERIES ENERGY RECOVERY VENTILATOR OUTDOOR OVER AND UNDER DUCT ARRANGEMENTS

### STANDARD CONSTRUCTION

#### CABINET

20 (1.0) gage galvanized steel.

#### PANELS

18 (1.3) gage galvanized steel.

#### FINISH

Polyester Resin based powder coat.  
Off White color.

#### WHEEL

ARI rated Internal Enthalpy Wheel.

#### FILTERS

Intake: Aluminum Mist Eliminator  
Exhaust: 2" Pleated

#### TEMPERATURE LIMITS

+10°F (-12°C) to. +115°F (+46°C).

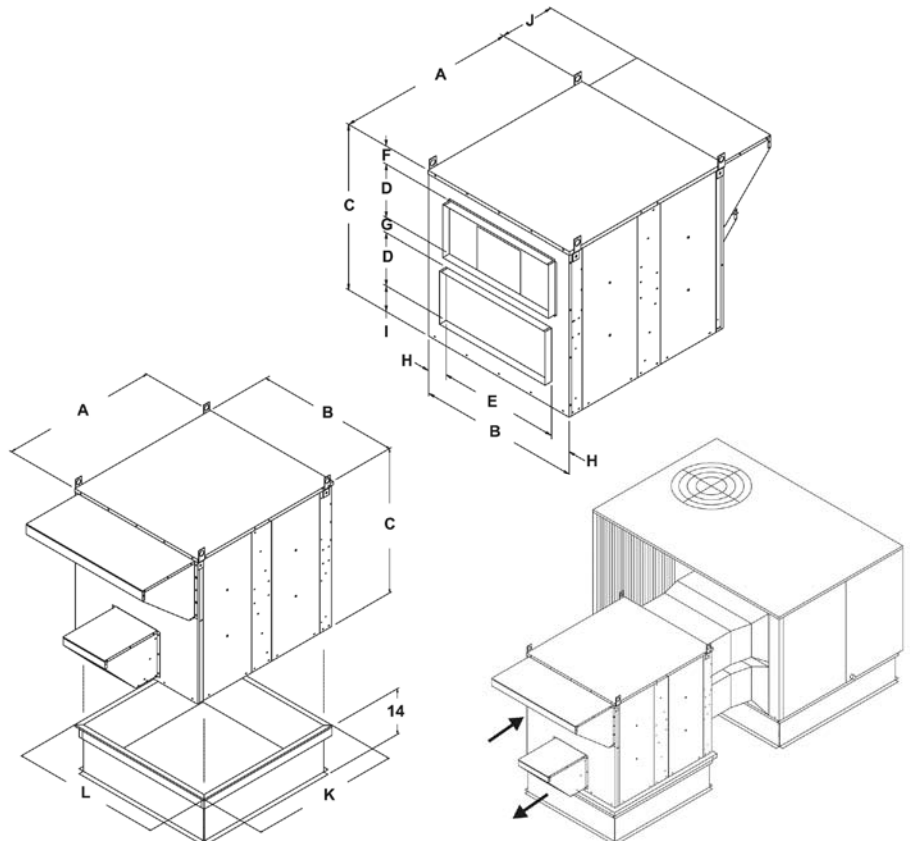
### OPTIONS

- Roof Curb
- Low Ambient Kit (LAK)
- Motorized Outside Air Damper (MOAD)
- Motorized Exhaust Air Damper (MEAD)
- Start-Stop-Jog (SSJ)
- Disconnect for Field Installation (Disc)
- Rotation Sensor (RS)
- Pressure Sensor (PS)
- Medium and High Pulley Kits (M or H)
- Dirty Filter Switch (DFS)
- Variable Frequency Drives (VFD)

Dimensions shown in parentheses ( ) indicate millimeters.

### FEATURES

"O" series energy recovery ventilators are designed for outside use in rooftop or "pad" installations where the application required a side-by-side 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" applications. The horizontal return duct connection can be converted to bottom return in the field. Balancing dampers should be utilized to help control the air volumes.



ERV with Horizontal Ductwork

ERV Model	CFM Range	Dimensions (in inches)											
		A	B	C	D	E	F	G	H	I	J	K	L
O11-02	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
O20-02	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
O28-02	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
O36-02	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
O46-02	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
O62-02	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

Qty.	Model	Motor Data			Options											TAG	
		Voltage	Phase	Cycle	Curb		LAK	MEAD	MOAD	SSJ	Disc.	RS	PS	DFS	VFD		
					14"	24"											

SPECIFICATIONS AND ELECTRICAL DATA								
Model Numbers		O11-02 Stand Alone O/U 300 - 1100 CFM ERV				O20-02 Stand Alone O/U 1200 - 2000 CFM ERV		
Line Voltage – 60hz		208/230v 1ph	208/230v 3ph	460v 3ph	575v 3ph	208/230v 3ph	460v 3ph	575v 3ph
Fresh Air Blower	Motor – hp	1.5 / Belt				2 / Belt		
	Wheel Size (dia x width) – in	9 x 4				9 x 9		
	Motor Speed – rpm	1725				1725		
	Motor Speed(s)	Adjustable Sheave				Adjustable Sheave		
	Bearing Type	Ball				Ball		
	Full Load Amps	9.1	5.6	2.8	2.0	6.0	2.6	2.4
	Service Factor	1.15				1.15		
Exhaust Air Blower	Motor – hp Stationary	1.5 / Belt				2 / Belt		
	Wheel Size (dia x width) – in	9 x 4				9 x 9		
	Motor Speed – rpm	1725				1725		
	Motor Speed(s)	Adjustable Sheave				Adjustable Sheave		
	Bearing Type	Ball				Ball		
	Full Load Amps	9.1	5.6	2.8	2.0	6.0	2.6	2.4
	Service Factor	1.15				1.15		
Wheel Electrical Data	Potential Volts	208 - 230				208 - 230		
	Motor Speed – rpm	1050				1050		
	Full Load Amps	0.3				0.3		
Total Electrical	MCA – Stationary	20.8	12.9	6.6	4.8	13.8	6.2	5.7
	OCPD – Stationary	30	15	9	7	20	9	8
Wheel Data	Wheel Depth – in	3				3		
	Wheel Diameter – in	25.3				30.346		
	Construction / Media Type	One Piece / Polymeric				One Piece / Polymeric		
Curb	Curb Height – in	14				14		
Weights	Shipping Weight – lbs. (kg)	389				650		
	Net Weight – lbs. (kg)	314				570		

O11 ARI CERTIFIED RATINGS					
Thermal Ratings @ 0" Pressure Diff.			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%
Enthalpy Wheel ARI Rating Data					
Nominal Airflow CFM	900 @ 1.0Δ	Nominal Airflow CFM	900 @ 1.0Δ		
EATR – -1.00 H <sub>2</sub> O	9.30%	OACF – -1.00 H <sub>2</sub> O	0.97		
EATR – 0.00 H <sub>2</sub> O	0.70%	OACF – 0.00 H <sub>2</sub> O	1.19		
EATR – +1.00 H <sub>2</sub> O	0.00%	OACF – +1.00 H <sub>2</sub> O	1.34		

O20 ARI CERTIFIED RATINGS					
Thermal Ratings @ 0" Pressure Diff.			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
Enthalpy Wheel ARI Rating Data					
Nominal Airflow CFM	1600 @ .95Δ	Nominal Airflow CFM	1600 @ .95Δ		
EATR – -1.00 H <sub>2</sub> O	7.80%	OACF – -1.00 H <sub>2</sub> O	0.97		
EATR – 0.00 H <sub>2</sub> O	0.40%	OACF – 0.00 H <sub>2</sub> O	1.16		
EATR – +1.00 H <sub>2</sub> O	0.00%	OACF – +1.00 H <sub>2</sub> O	1.29		

**SPECIFICATIONS AND ELECTRICAL DATA**

Model Numbers		O28-02 – Stand Alone O/U 1200 - 2800 CFM ERV			O36-02 – Stand Alone O/U 2000 - 3600 CFM ERV		
		208/230v 3ph	460v 3ph	575v 3ph	208/230v 3ph	460v 3ph	575v 3ph
Line Voltage – 60hz							
Fresh Air Blower	Motor – hp / type	3 / Belt			3 / Belt		
	Wheel Size (dia x width) – in	10 x 10			12 x 9		
	Motor Speed – rpm	1725			1725		
	Motor Speed(s)	Adjustable Sheave			Adjustable Sheave		
	Bearing Type	Ball			Ball		
	Full Load Amps	9.4	4.3	3.2	9.4	4.3	3.2
	Service Factor	1.15			1.15		
Exhaust Air Blower	Motor – hp Stationary	3 / Belt			3 / Belt		
	Wheel Size (dia x width) – in	10 x 10			12 x 9		
	Motor Speed – rpm	1725			1725		
	Motor Speed(s)	Adjustable Sheave			Adjustable Sheave		
	Bearing Type	Ball			Ball		
	Full Load Amps	9.4	4.3	3.2	9.4	4.3	3.2
	Service Factor	1.15			1.15		
Wheel Electrical Data	Motor – hp (1 phase)	0.005			0.17		
	Potential Volts	200 / 208 - 230			200 / 208 - 230		
	Motor Speed – rpm	825			1075		
	Full Load Amps	0.6			1.2		
Total Electrical	MCA – Stationary	21.8	10.3	7.8	22.4	10.9	8.4
	OCPD – Stationary	30	12	10	30	15	10
Wheel Data	Wheel Depth x Diameter – in	3 x 37.759			3 x 41.825		
	Construction / Media Type	Segmented Pies / Polymeric			Segmented Pies / Polymeric		
Curb	Curb Height – in	14			14		
Weights	Shipping Weight – lbs. (kg)	876			950		
	Net Weight – lbs. (kg)	801			854		

**O28 ARI CERTIFIED RATINGS**

Thermal Ratings @ 0" Pressure Diff.		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%

**Enthalpy Wheel ARI Rating Data**

Nominal Airflow CFM	2600 @ .95Δ	Nominal Airflow CFM	2600 @ .95Δ
EATR – -1.00 H <sub>2</sub> O	6.10%	OACF – -1.00 H <sub>2</sub> O	0.99
EATR – 0.00 H <sub>2</sub> O	0.40%	OACF – 0.00 H <sub>2</sub> O	1.13
EATR – +1.00 H <sub>2</sub> O	0.00%	OACF – +1.00 H <sub>2</sub> O	1.23

**O36 ARI CERTIFIED RATINGS**

Thermal Ratings @ 0" Pressure Diff.		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

**Enthalpy Wheel ARI Rating Data**

Nominal Airflow CFM	3100 @ .9Δ	Nominal Airflow CFM	3100 @ .9Δ
EATR – -1.00 H <sub>2</sub> O	4.90%	OACF – -1.00 H <sub>2</sub> O	0.99
EATR – 0.00 H <sub>2</sub> O	1.30%	OACF – 0.00 H <sub>2</sub> O	1.07
EATR – +1.00 H <sub>2</sub> O	0.30%	OACF – +1.00 H <sub>2</sub> O	1.12

SPECIFICATIONS AND ELECTRICAL DATA							
Model Numbers		O46-02 – Stand Alone O/U 3000 - 4600 CFM ERV			O62-02 – Stand Alone O/U 4600 - 6200 CFM ERV		
Line Voltage – 60hz		208/230v 3ph	460v 3ph	575v 3ph	208/230v 3ph	460v 3ph	575v 3ph
Fresh Air Blower	Motor – hp / type	5 / Belt			5 / belt		
	Wheel Size (dia x width) – in	12 x 12			15 x 15		
	Motor Speed – rpm	1725			1725		
	Motor Speed(s)	Adjustable Sheave			Adjustable Sheave		
	Bearing Type	Ball			Ball		
	Full Load Amps	14.0	7.0	5.1	14.0	7.0	5.1
	Service Factor	1.15			1.15		
Exhaust Air Blower	Motor – hp Stationary	5 / Belt			5 / belt		
	Wheel Size (dia x width) – in	12 x 12			15 x 15		
	Motor Speed – rpm	1725			1725		
	Motor Speed(s)	Adjustable Sheave			Adjustable Sheave		
	Bearing Type	Ball			Ball		
	Full Load Amps	14.0	7.0	5.1	14.0	7.0	5.1
	Service Factor	1.15			1.15		
Enthalpy Wheel Electrical Data	Motor – hp (1 phase)	0.17			.17		
	Potential Volts	200 / 208 - 230			200 / 208 – 230		
	Motor Speed – rpm	1075			1075		
	Full Load Amps	1.2			1.2		
Total Electrical	MCA – Stationary	32.7	17.0	12.7	32.7	17.0	12.7
	OCPD – Stationary	40	25	15	40	25	15
Wheel Data	Wheel Depth x Diameter – in	3 x 46.776			3 x 52.026		
	Construction / Media Type	Segmented Pies / Polymeric			Segmented Pies / Polymeric		
Curb	Curb Height – in	14			14		
Weights	Shipping Weight – lbs. (kg)	1228			1380		
	Net Weight – lbs. (kg)	1113			1205		

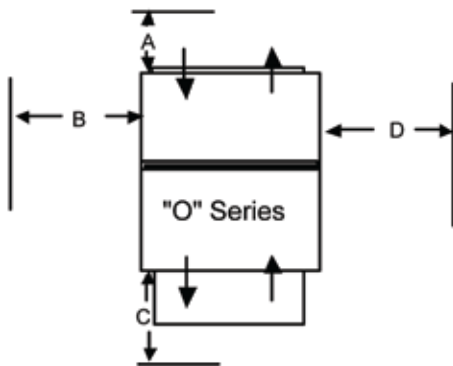
O46 ARI CERTIFIED RATINGS					
Thermal Ratings @ 0" Pressure Diff.			Sensible	Latent	Total
Total Effectiveness	100% Airflow Heating		68%	60%	65%
	75% Airflow Heating		73%	67%	71%
	100% Airflow Cooling		68%	60%	63%
	75% Airflow Cooling		73%	67%	70%
Net Effectiveness	100% Airflow Heating		68%	60%	65%
	75% Airflow Heating		73%	67%	71%
	100% Airflow Cooling		68%	60%	63%
	75% Airflow Cooling		73%	67%	70%
Enthalpy Wheel ARI Rating Data					
Nominal Airflow CFM	3900 @ .9Δ	Nominal Airflow CFM	3900 @ .9Δ		
EATR – -1.00 H <sub>2</sub> O	4.40%	OACF – -1.00 H <sub>2</sub> O	0.99		
EATR – 0.00 H <sub>2</sub> O	1.10%	OACF – 0.00 H <sub>2</sub> O	1.06		
EATR – +1.00 H <sub>2</sub> O	0.20%	OACF – +1.00 H <sub>2</sub> O	1.11		

O62 ARI CERTIFIED RATINGS					
Thermal Ratings @ 0" Pressure Diff.			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
Enthalpy Wheel ARI Rating Data					
Nominal Airflow CFM	5500 @ .95Δ	Nominal Airflow CFM	5500 @ .95Δ		
EATR – -1.00 H <sub>2</sub> O	4.00%	OACF – -1.00 H <sub>2</sub> O	0.99		
EATR – 0.00 H <sub>2</sub> O	1.00%	OACF – 0.00 H <sub>2</sub> O	1.06		
EATR – +1.00 H <sub>2</sub> O	0.20%	OACF – +1.00 H <sub>2</sub> O	1.10		

## FILTER SIZES

Series	Size	Return Filter				Intake Filter			
		Qty	Width	Height	Type	Qty	Width	Height	Type
O	11	1	18	25	2" PLT	1	27.5	10	1" ME
	20	2	16	16		1	32.25	18.5	
	28	2	20	20		1	40.25	21.5	
	36	2/1	16 / 14	20		1	40.25	21.5	
	46	2	24	24		1	40.25	21.5	
	62	5	14	20		1	40.25	25.5	

## SERVICE CLEARANCES



Dimension (inches)	"O" SERIES					
	11	20	28	36	46	62
A	12	12	12	12	12	12
B	36	36	36	36	36	36
C	48	60	60	60	60	60
D	36	36	36	36	36	36

<b>“O11-02” OUTDOOR ERV AIRFLOW PERFORMANCE</b>								
<b>SUPPLY</b>								
Blower RPM for O11, 1.5HP, Mist Eliminator Filter in Intake Hood								
		External Static Pressure (in water)						
		0	.25	.5	.75	1	1.25	1.5
CFM	300	n/a	n/a	975	1045	1300	1440	1525
	500	n/a	930	1030	1210	1385	1480	1605
	700	n/a	1025	1205	13350	1435	1560	1635
	900	945	1200	1325	1430	1555	1625	1720
	1100	1195	1320	1420	1550	1620	1715	1795
<b>EXHAUST</b>								
Blower RPM for O11, 1.5HP, Barometric Hood, 2” Pleated Filters								
		External Static Pressure (in water)						
		0	.25	.5	.75	1	1.25	1.5
CFM	300	n/a	915	1070	1275	1385	1500	1625
	500	n/a	1065	1155	1330	1475	1565	1685
	700	940	1165	1325	1470	1520	1675	1730
	900	1160	1320	1465	1555	1665	1720	1855
	1100	1305	1460	1580	1660	1715	1810	1955

<b>“O20-02” OUTDOOR ERV AIRFLOW PERFORMANCE</b>								
<b>SUPPLY</b>								
Blower RPM for O20, 2HP, Mist Eliminator Filter in Intake Hood								
		External Static Pressure (in water)						
		0	.25	.5	.75	1	1.25	1.5
CFM	1200	840	1020	1190	1260	1465	1565	1685
	1400	945	1135	1265	1360	1485	1595	1720
	1600	1040	1210	1310	1420	1535	1625	1745
	1800	1145	1290	1395	1465	1570	1690	1765
	2000	1250	1385	1450	1525	1630	1760	1820
<b>EXHAUST</b>								
Blower RPM for O20, 2HP, Barometric Hood, 2” Pleated Filters								
		External Static Pressure (in water)						
		0	.25	.5	.75	1	1.25	1.5
CFM	1200	935	1125	1275	1410	1525	1640	1760
	1400	1015	1220	1320	1460	1570	1690	1795
	1600	1120	1270	1405	1565	1655	1745	1830
	1800	1250	1400	1535	1650	1745	1820	1880
	2000	1305	1530	1645	1735	1815	1870	1930

**Notes:**

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

**RPM Range**

	Not available from pulley kits
	Low Speed (Factory Standard)
	Medium Speed
	High Speed

<b>“O28-02” OUTDOOR ERV AIRFLOW PERFORMANCE</b>								
<b>SUPPLY</b>								
Blower RPM for O28, 3HP, Mist Eliminator Filter in Intake Hood								
		External Static Pressure (in water)						
		0	.25	.5	.75	1	1.25	1.5
CFM	1200	n/a	905	975	1075	1185	1345	1430
	1600	n/a	950	1070	1170	1325	1420	1485
	2000	945	1095	1145	1260	1385	1435	1525
	2400	1065	1175	1280	1380	1460	1515	1610
	2800	1195	1300	1400	1455	1520	1605	1665
<b>EXHAUST</b>								
Blower RPM for O28, 3HP, Barometric Hood, 2" Pleated Filters								
		External Static Pressure (in water)						
		0	.25	.5	.75	1	1.25	1.5
CFM	1200	850	975	1115	1225	1310	1395	1475
	1600	945	1105	1205	1300	1385	1460	1560
	2000	1150	1285	1315	1395	1490	1575	1620
	2400	1275	1425	1485	1515	1605	1685	1765
	2800	1415	1520	1595	1640	1720	1825	1935

<b>“O36-02” OUTDOOR ERV AIRFLOW PERFORMANCE</b>								
<b>SUPPLY</b>								
Blower RPM for O36, 3HP, Mist Eliminator Filter in Intake Hood								
		External Static Pressure (in water)						
		0	.25	.5	.75	1	1.25	1.5
CFM	2000	680	805	890	975	1065	1125	1220
	2400	780	885	1000	1060	1120	1190	1260
	2800	880	995	1080	1110	1200	1250	1300
	3200	990	1075	1145	1190	1255	1290	1360
	3600	1070	1155	1220	1305	n/a	n/a	n/a
<b>EXHAUST</b>								
Blower RPM for O36, 3HP, Barometric Hood, 2" Pleated Filters								
		External Static Pressure (in water)						
		0	.25	.5	.75	1	1.25	1.5
CFM	2000	805	930	1020	1080	1150	1290	1330
	2400	925	1015	1100	1145	1280	1325	1415
	2800	1010	1125	1255	1300	1350	1395	1435
	3200	1135	1250	1295	1345	1430	1475	1545
	3600	1245	1340	1420	1445	1500	1575	n/a

**Notes:**

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

**RPM Range**

	Not available from pulley kits
	Low Speed (Factory Standard)
	Medium Speed
	High Speed

<b>“O46-02” OUTDOOR ERV AIRFLOW PERFORMANCE</b>								
<b>SUPPLY</b>								
Blower RPM for O46, 5HP, Mist Eliminator Filter in Intake Hood								
		External Static Pressure (in water)						
		0	.25	.5	.75	1	1.25	1.5
<b>CFM</b>	<b>3000</b>	750	965	1045	1115	1185	1270	1325
	<b>3400</b>	900	1035	1105	1190	1260	1315	1385
	<b>3800</b>	975	1095	1195	1255	1305	1380	1440
	<b>4200</b>	1080	1185	1250	1315	1385	1445	1500
	<b>4600</b>	1105	1245	1330	1395	1450	1480	1560
<b>EXHAUST</b>								
Blower RPM for O46, 5HP, Barometric Hood, 2” Pleated Filters								
		External Static Pressure (in water)						
		0	.25	.5	.75	1	1.25	1.5
<b>CFM</b>	<b>3000</b>	920	1035	1125	1230	1270	1320	1400
	<b>3400</b>	995	1120	1225	1295	1360	1425	1460
	<b>3800</b>	1060	1220	1320	1385	1455	1485	1555
	<b>4200</b>	1175	1295	1385	1450	1500	1545	1615
	<b>4600</b>	1240	1370	1470	1525	1600	1630	1675

<b>“O62-02” OUTDOOR ERV AIRFLOW PERFORMANCE</b>								
<b>SUPPLY</b>								
Blower RPM for O62, 5HP, Mist Eliminator Filter in Intake Hood								
		External Static Pressure (in water)						
		0	.25	.5	.75	1	1.25	1.5
<b>CFM</b>	<b>4600</b>	735	835	935	980	1050	1110	1140
	<b>5000</b>	775	890	975	1015	1075	1135	1170
	<b>5400</b>	830	930	1010	1070	1130	1160	1220
	<b>5800</b>	880	970	1040	1100	1155	1215	1250
	<b>6200</b>	920	1000	1095	1150	1210	1240	1275
<b>EXHAUST</b>								
Blower RPM for O62, 5HP, Barometric Hood, 2” Pleated Filters								
		External Static Pressure (in water)						
		0	.25	.5	.75	1	1.25	1.5
<b>CFM</b>	<b>4600</b>	825	935	1020	1075	1125	1170	1225
	<b>5000</b>	885	995	1070	1100	1165	1220	1235
	<b>5400</b>	925	1015	1090	1150	1200	1275	1315
	<b>5800</b>	985	1065	1135	1175	1265	1305	n/a
	<b>6200</b>	1025	1100	1150	1250	n/a	n/a	n/a

**Notes:**

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

**RPM Range**

	Not available from pulley kits
	Low Speed (Factory Standard)
	Medium Speed
	High Speed



## O SERIES ERV SUGGESTED SPECIFICATION

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Furnish and install, at locations shown on plans or in accordance with schedule, mechanical cooling and/or heating system complete with a stand alone Energy Recovery Ventilator (ERV). The Energy Recovery Ventilator will contain an energy recovery component rated in accordance with ARI Standard 1060 with ratings certified by ARI. ERV shall be designed for ducting to the A/C (rooftop, upflow, horizontal) unit into the duct system of an air conditioning unit or as a stand alone unit with its own duct system. The cabinet shall be galvanized material with a powder coated paint finish electrostatically bonded to the metal. Cabinet panels where conditioned air is handled shall be fully insulated to prevent condensation and minimize sound. Openings shall be provided for duct connections. Lifting devices shall be provided for rigging. Test ports shall be provided so airflow can be measured across the energy recovery wheel. The intake and exhaust air blowers of the ERV shall contain a centrifugal forward curved blower. They shall have ball bearings with adjustable belt drive and motor mount base shall permit ease of motor change-over and belt tension adjustment.

The energy recovery device shall be a rotary heat exchanger per ARI Standard 1060 description. The device will be an enthalpy wheel coated with a silica gel desiccant by a patented process without the use of binders or adhesives which may plug the desiccant aperture. The substrate shall be a lightweight polymer. Desiccant shall not dissolve or deliquesce in the presence of water or high humidity. The wheel shall be easily cleanable with water and/or alkaline based coil cleaning solution. In all size units the wheel shall be provided with removable segments for cleaning and maintenance. All diameter and perimeter seals shall be provided. The energy recovery cassette shall be an Underwriters Laboratories Recognized Component for electrical and fire safety.

Barometric relief dampers will be provided in the exhaust air hood to prevent air infiltration if the ERV is de-energized. ERV unit to have mist eliminator filter in the intake air hood and 2" pleated filter on the return air side. ERV shall be provided with a single point power connection for high voltage. Energy Recovery Ventilator shall be Ruskin "O" Series for outdoor use in an over and under configuration.

### **OPTIONS (specifier select as required)**

**Roof Curb** - Furnish and install the manufacturers' roof mounting curb to maintain the proper height above the roof.

**Low Ambient Kit** - Furnish and install a low ambient kit to prevent frost formation on the energy recovery wheel.

**Motorized Intake Air Damper** - Furnish and install motorized intake air damper.

**Stop-Start-Jog** - Furnish and install stop-start-jog controls to stop wheel rotation during economizer cycle operation.

**Motorized Exhaust Air Damper** - Furnish and install motorized exhaust air damper.

**Disconnect** - Furnish disconnect box for field installation.

**Dirty Filter Switch** - Furnish and install dirty filter switch.

**Rotation Sensor** - Furnish and install rotation sensor to verify wheel rotation.

**Pressure Sensor** - Furnish and install pressure sensor to confirm airflow performance.

*Ruskin continually strives to improve our products, and reserves the right to change product design and specification without notice.*

**RUSKIN**<sup>®</sup>

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