

Engineering Data

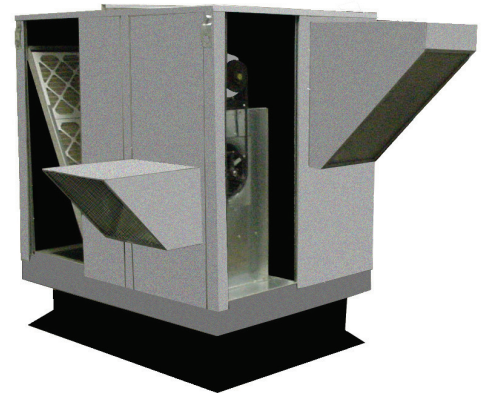


Energy recovery COMPONENT certified to the AHRI Air-to-Air Energy Recovery Ventilation Equipment Certification Program in accordance with AHRI Standard 1060-2000. Actual performance in packaged equipment may vary.

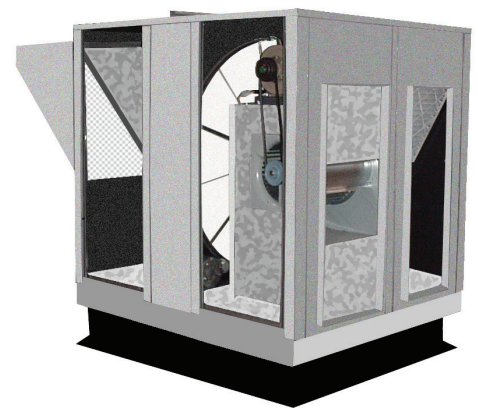
Stand Alone ERV Catalog
June 3, 2023
Supersedes: 11-21-22

- ❖ Reduces cooling load at design temperatures up to 4 tons per 1000 cfm of outside air.
- ❖ Reduces heating load up to 12,000 Btuh per 400 cfm of outside air.
- ❖ Dry energy transfer. Moisture in supply (intake) air stream is transferred to exhaust air stream in a vapor state, eliminating condensate plumbing in the ventilator.
- ❖ Units can be used in a rooftop application, a mechanical room application, or ground application.
- ❖ Separate fused power supply.
- ❖ Filters / mist eliminators are provided on the entering air openings of the outdoor units. Indoor units have pre-filters for both the supply and exhaust air.
- ❖ Centrifugal blowers (both intake and exhaust) for high static capability and low sound levels.
- ❖ Heavy gauge galvanized steel cabinets corrosion protected with powder paint process.
- ❖ Fully insulated cabinet.
- ❖ **ARI rated internal enthalpy wheel is provided.**
- ❖ Internal enthalpy wheel made of polymeric material with silica gel impregnated into the material. The enthalpy wheel has a five year limited warranty.
- ❖ Internal enthalpy wheels are easily cleanable. All wheels 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. Kit includes temperature sensor to shutoff power to UERV before frost build up can occur on recovery wheel.

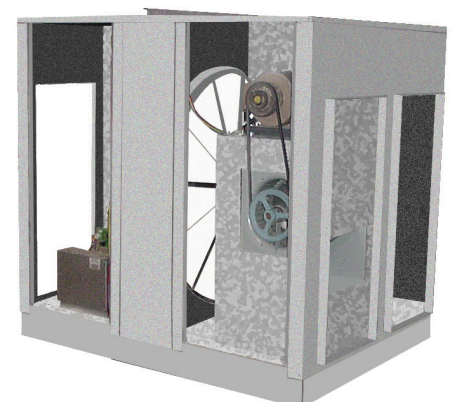
Typical Applications



Rooftop Downflow ERV Unit



ERV for Rooftop or Ground Installation



Mechanical Room ERV Unit



ETL Certified per UL 1995 and CSA 22.2

Intertek

Applications

Energy Recovery Ventilators (ERV) are used to recover exhaust air energy and reintroduce it into the conditioned space. The recovery wheel provides sensible and latent energy exchange between the entering and exhaust air streams of a building. This allows a substantial amount of the energy which is normally lost in the exhaust air stream to be returned into the entering air. Ideal applications are areas that have cold or hot temperatures with high occupancy loads or high ventilation requirements. Areas that have high humidity or very low humidity (recover exhaust air humidity from buildings that have humidifiers) are good applications. ERV's also reduce the design loads due to outside air, which can mean downsizing the air conditioning equipment. Application software is available to calculate the load reductions and provide the energy and dollar savings for all areas of the United States and Canada.

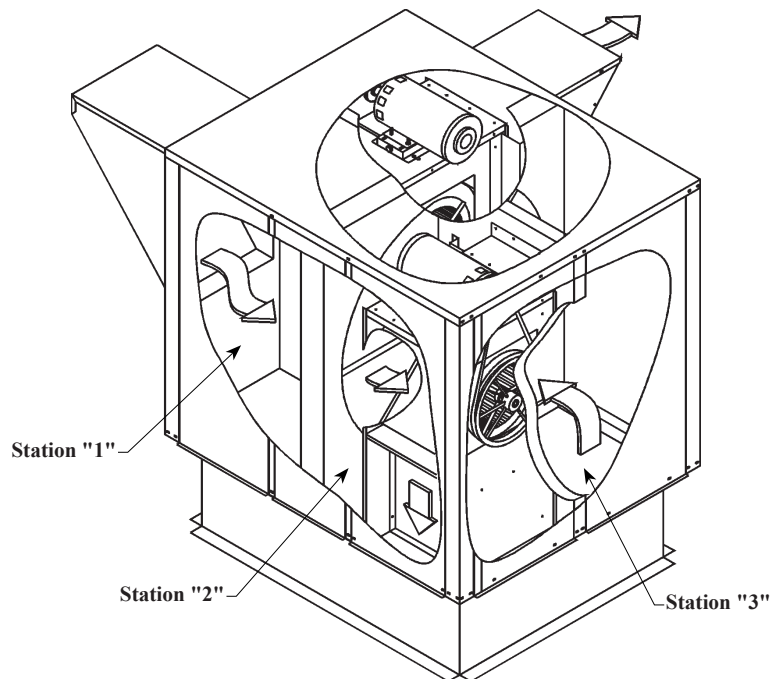
Principle of Operation

The ERV enthalpy wheel contains parallel layers of a polymeric material that are impregnated with silica gel (desiccant). The wheel is located in the entering (intake) air and exhaust air streams of the ventilation equipment. As the wheel rotates through each air stream, the wheel surface captures sensible and latent energy. In the heating mode, the wheel rotates to provide a constant transfer of heat from the exhaust air stream to the colder intake air stream. During the cooling season, the process is reversed. For applications that do not need to recover energy during mild outside weather conditions, an option is provided to stop the wheel from rotating, thereby providing cooling with energy recovery.

Enthalpy Wheels and AHRI

ARI Standard 1060-2000 for Air-to-Air Energy Recovery Ventilation Equipment

The Air-Conditioning, Heating, and Refrigeration Institute (AHRI) issued Standard 1060-2000 to certify air-to-air energy recovery ventilators. This standard deals specifically with the ratings of the Energy Recovery Wheel that is incorporated into the ERV. All of the RRS energy recovery units have an AHRI certified wheel. The data shown in the specification charts are the AHRI certified data for the wheel. Actual performances may vary.

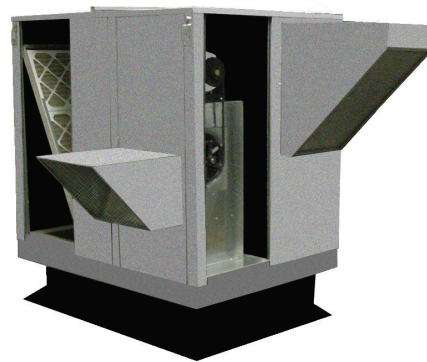


Critical Terms for Standard 1060 are as follows:

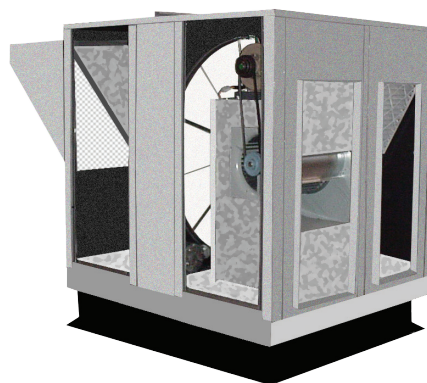
- 1. Effectiveness.** The measured energy recovery effectiveness not adjusted to account for that portion of the psychometric change in the leaving supply air (Station 2) that is the result of leakage of entering exhaust air (Station 3) rather than exchange of heat or moisture between the air streams.
- 2. Net Effectiveness.** The measured recovery effectiveness adjusted to account for that portion of the psychometric change in the leaving supply air (Station 2) that is the result of leakage of the entering exhaust air (Station 3) rather than exchange of heat or moisture between the air streams.
- 3. Exhaust Air Transfer Ratio (EATR).** The tracer gas concentration difference between the leaving supply air (Station 2) and entering supply (outdoor) air stream (Station 1) divided by the tracer gas concentration in the entering exhaust (return) air (Station 3) at the 100% rated air-flow, expressed as a percentage.
- 4. Outdoor Air Correction Factor (OACF).** The entering supply (outdoor) airflow (Station 1) divided by the measured (gross) leaving supply airflow (Station 2).

Product Applications

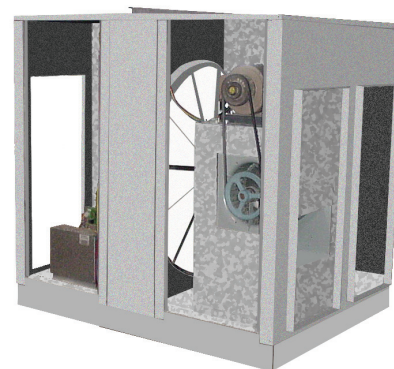
"D" Series energy recovery ventilators are utilized in applications that require a rooftop installation. These units may be installed as a stand-alone unit with a separate and distinct duct system from other air conditioning equipment. In many applications the supply (intake) air duct is connected to 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).



"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 utilized to help control the air volumes.



"M" Series energy recovery ventilators are designed for 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 systems to an outside source. The return air and supply air also are ducted. Field provided balancing dampers should be utilized to help control the air volumes.



"O" Series energy recovery ventilators are designed for outside use in rooftop or "pad" installations where the application requires a "over and 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" applications. The horizontal return duct connection can be converted to bottom return in the field. Field supplied balancing dampers should be utilized to help control the air volumes.

"N" Series energy recovery ventilators are designed for use inside a building for applications that require "over and under" 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 systems to an outside source. The return air and supply air also are ducted. The horizontal return duct connection can be converted to bottom return in the field. Field provided balancing dampers should be utilized to help control the air volumes.



ERV Standard Features

RRS Energy Recovery Ventilators are supplied with filters before the Energy Recovery Wheel. The type(s) of filters are determined by the style of the ERV.

"D" series has an aluminum mist eliminator filter for the intake air and a 2" pleated filter for the exhaust air.

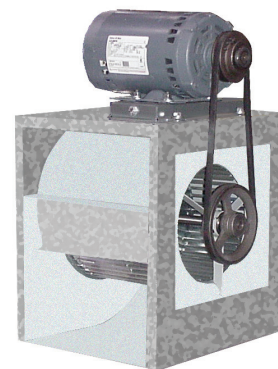
"O" & "S" series have an aluminum mist eliminator filter for the intake air and a 2" pleated filter for the exhaust air.

"M" & "N" series have a 2" pleated filter for both the exhaust air and the intake air.



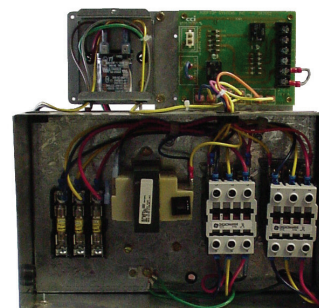
RRS Energy Recovery Ventilators are supplied with fully tested blower assemblies. Some of the features are as follows:

1. The blowers are housed within a sheet metal frame to insure reliable performance.
2. The blower motor is mounted on an adjustable motor mount that provides an easy method of adjusting the belts.
3. All blowers are equipped with adjustable sheave pulleys.
4. The blower pulley and the motor pulley are aligned by a state of the art "laser" alignment system.



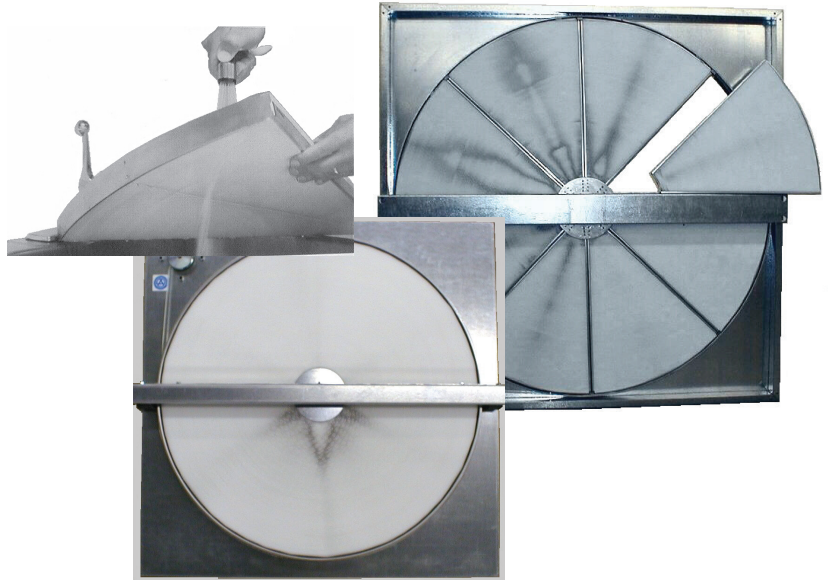
RRS Energy Recovery Ventilators are supplied with fully tested control systems. Some of the features are as follows:

1. Electronic control board.
2. Fully wired.
3. Independently fused.
4. Color coded wires.
5. Provides own 24 volt circuit.
6. All options are "plug-in" modules.



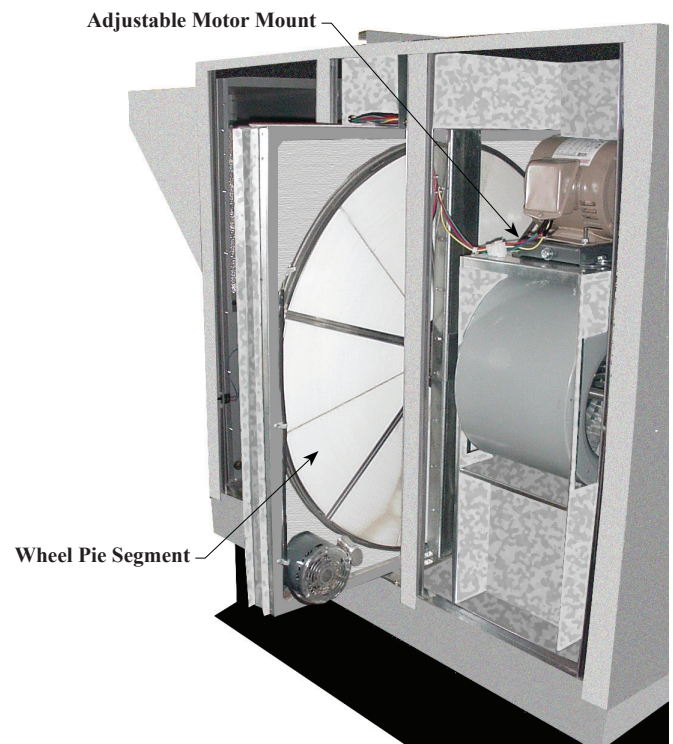
Energy Recovery Wheel

The heart of the Energy Recovery Ventilator is the Energy Recovery Wheel (defined by AHRI as a rotary heat exchanger). The wheel has a patented design of parallel layers of wrapped polymeric material that is impregnated with a silica gel (desiccant). This unique design makes it the only truly cleanable wheel on the market today. The small wheels (19 inch diameter) are slide out cassettes, and the larger wheels have pie segments that are removable for cleaning.



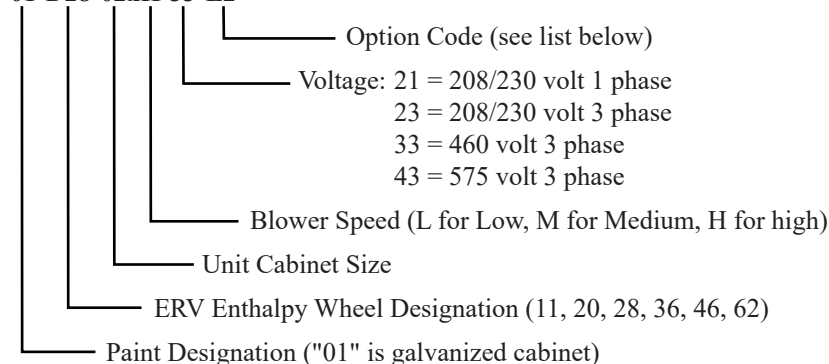
RRS Stand Alone Energy Recovery Ventilators are designed for ease of maintenance.

- ❖ All of the enthalpy wheels are designed to "slide" in and out of the ERV. This allows easy access to all parts of the wheel.
- ❖ Wheel "Pie" segments can be removed for easy cleaning.
- ❖ All wiring is color coded to match the wiring diagram.
- ❖ Control boxes provided with internal fuses.
- ❖ Blower motors are mounted on "adjustable" bases that allow easy tensioning of the belts.
- ❖ All filters are standard sizes.
- ❖ All options are easily installed by simply plugging them into the appropriate plug.
- ❖ Roof curbs have duct supports



Product Applications

01-D28-02xH-33-L2



Optional Accessories

Roof Mounting Frame – A 14 or 24 inch (356 or 610 mm) roof curb is required to match supply and exhaust openings of the ERV with the rooftop units. RRS provides a full line of roof curbs to match the specified unit.

Low Ambient Control 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.

Pressure Sensor – Measurement device on the UERV to determine airflow across the Enthalpy Wheel.

Motorized Intake Air Damper – Damper mounts in the outdoor air intake hood. It opens when the UERV is energized and closes when de-energized. **Not available on "M" and "N" Series.**

Stop-Start-Jog – Function that rotates the Enthalpy on a preset timer to prevent contamination of the wheel during economizer operation.

ERV Option Codes (ex.: xx-S28-02xH-L3 would be an S28 series high speed ERV with a Low Ambient Kit, Motorized Outside Air, and Stop-Start-Jog kit.)

- L1 – Low Ambient Kit (LAK)
- L2 – LAK & Motorized. Outside Air (MOA)
- L3 – LAK, MOA, & Stop-Start-Jog (SSJ)
- L4 – LAK, MOA, SSJ, & Pressure Sensor (PS)
- L5 – LAK and SSJ
- L6 – LAK, SSJ, and PS
- L7 – LAK and PS
- L8 – LAK, MOA, and PS
- M1 – Motorized Outside Air (MOA)
- M2 – MOA and Stop-Start-Jog (SSJ)
- M3 – MOA, SSJ, and Pressure Sensor (PS)
- M4 – MOA and PS
- S1 – Stop-Start-Jog (SSJ)
- S2 – SSJ and Pressure Sensor (PS)
- P1 – Pressure Sensor (PS)

Other options (ordered separately) – Rotation Sensor, Motorized Exhaust Air Damper and Disconnects.

Cross Leakage in UERV's (Purge Sectors)

The issue of cross leakage in rotary wheel based UERV's used in space conditioning applications is often misunderstood. As a result, many systems are installed with purge sectors and the additional fan capacity required to allow these sectors to function when in fact they are unnecessary. A better understanding of the rationale for the purge sector, and its history, allows us to dispense with the purge sector, its added first cost and continuing cost of operation.

A purge sector minimizes the carry over cross leakage from the exhaust into the supply (outside air) air stream by shunting a portion of the supply air back into the exhaust air stream across the seal separating the exhaust and supply. This is required in industrial applications where the exhaust carries contaminants. This typically results in air volume being 15% to 20% higher to get the desired air intake, and the cost associated with it.

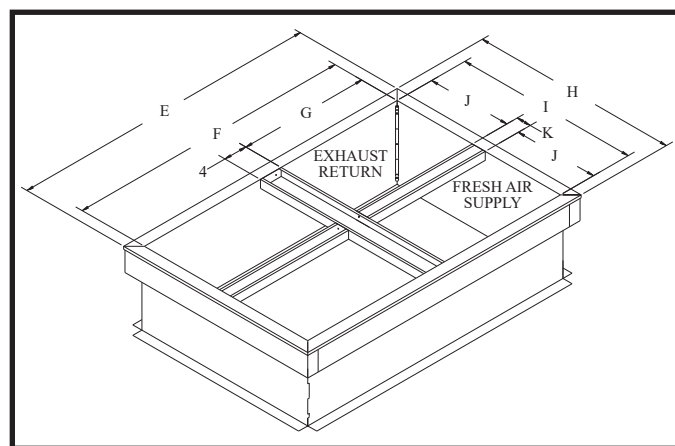
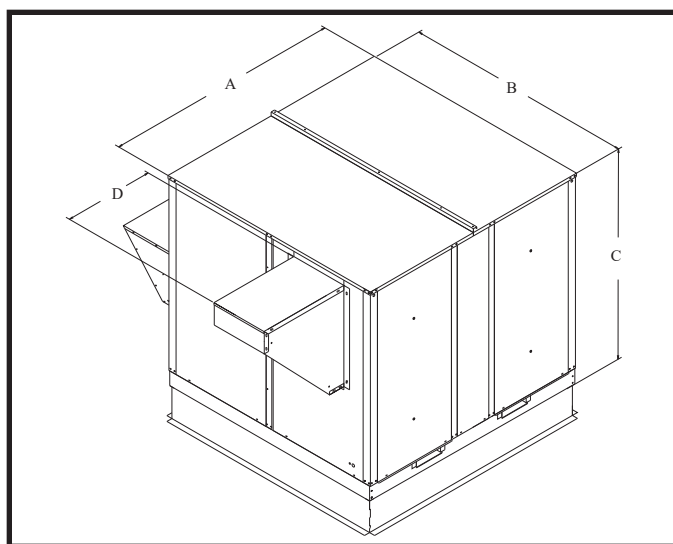
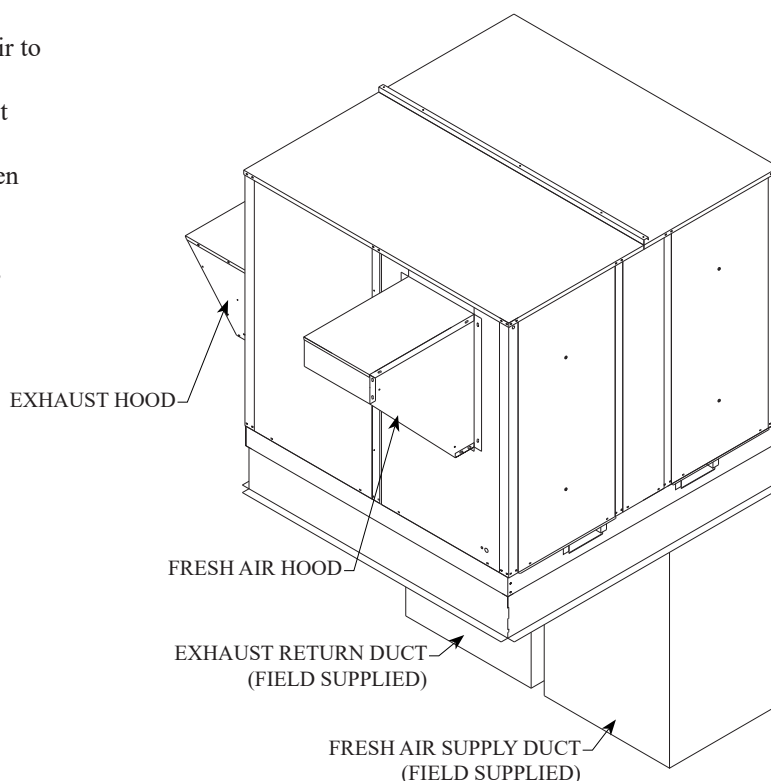
In space conditioning applications, where the ventilation is operating to maintain acceptable indoor air quality, there are no contaminants in concentrations of concern. Cross leakage in the UERV system results in a small amount of the exhaust air, typically less than 5% in balanced airflow, returning to the space. This is not contaminated air, as some would suggest. It is however air that effectively never left the space. The operation cost of moving this air is far less than that required for a purge sector. Do not use the RRS UERV's in applications that have concentrations of contaminants.

D-02 Series Stand Alone ERV'S For Down Discharge Duct Arrangements

Features and Notes

1. Stand alone design allows higher levels of outdoor air to be introduced into the a/c space.
2. Static test ports provided to verify intake and exhaust CFM.
3. Balancing damper(s) field supplied in duct work when connected to ERV.
4. Roof curbs are available for the ERV's.
5. See blower performance charts for airflow at various E.S.P..
6. Filter rack with 2" pleated filters included.

| ERV Roof Curbs | |
|----------------|-------------|
| Series | Model No |
| D11 | 01-2D1-2514 |
| D20 | 01-2D1-3014 |
| D28 | 01-2D1-3614 |
| D36 | 01-2D1-4114 |
| D46 | 01-2D1-4614 |
| D62 | 01-2D1-5214 |



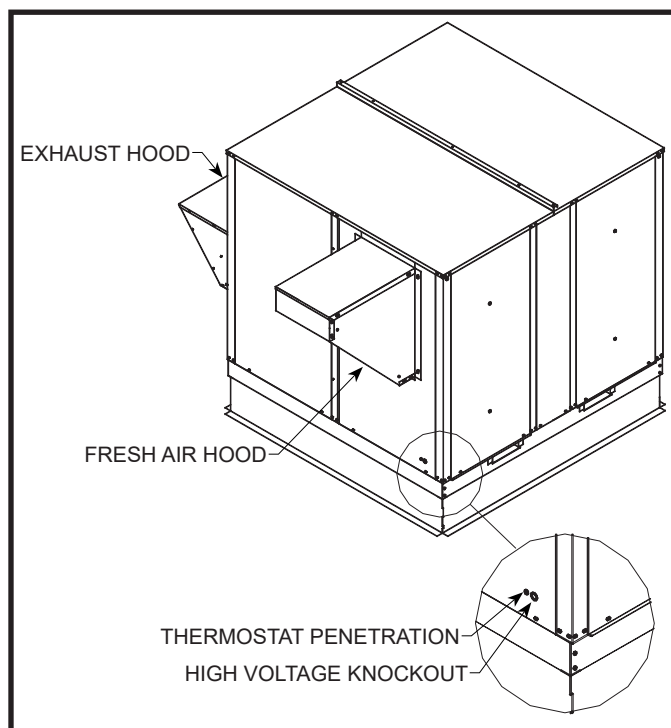
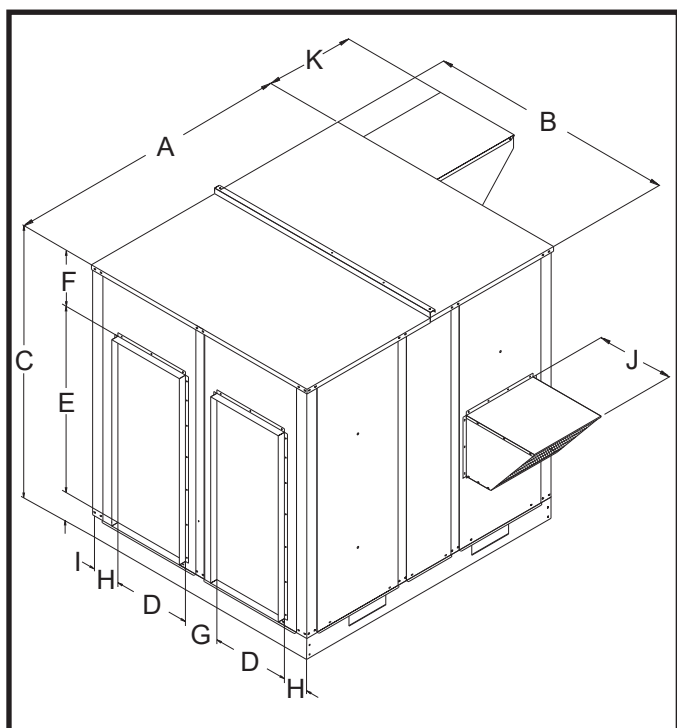
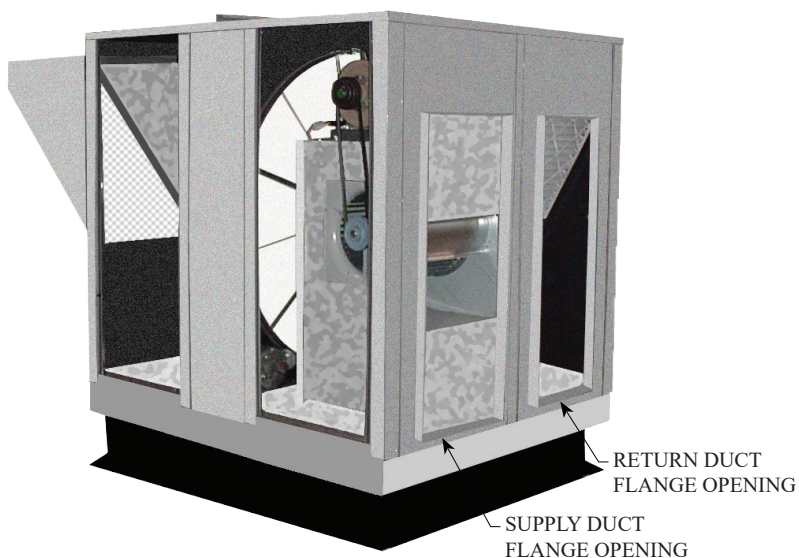
| ERV Data | | | Dimensional Data | | | | | | | | | | |
|------------|-----------|-------------------|------------------|-------|-------|-------|-----------|-------|-------|-------|-------|-------|------|
| ERV Series | CFM Range | Duct Size (G x J) | ERV | | | | Roof Curb | | | | | | |
| | | | A | B | C | D | E | F | G | H | I | J | K |
| D11-02 | 300-1100 | 17.00 x 11.38 | 44.75 | 32.13 | 33.50 | 14.38 | 43.00 | 39.00 | 17.50 | 30.25 | 26.25 | 11.88 | 2.50 |
| D20-02 | 1200-2000 | 21.88 x 14.00 | 54.38 | 37.25 | 37.50 | 17.50 | 52.75 | 48.75 | 22.38 | 35.50 | 31.50 | 14.50 | 2.50 |
| D28-02 | 1200-2800 | 20.25 x 17.00 | 52.25 | 42.63 | 43.56 | 25.50 | 49.50 | 45.50 | 20.75 | 41.00 | 37.00 | 17.50 | 2.00 |
| D36-02 | 2000-3600 | 23.38 x 17.38 | 60.00 | 46.69 | 57.37 | 25.50 | 55.75 | 51.75 | 23.88 | 41.81 | 37.81 | 17.91 | 2.00 |
| D46-02 | 3000-4600 | 23.38 x 20.38 | 60.00 | 52.69 | 57.37 | 28.06 | 55.75 | 51.75 | 23.88 | 47.81 | 43.81 | 20.91 | 2.00 |
| D62-02 | 4600-6200 | 29.38 x 30.00 | 72.00 | 70.88 | 63.63 | 37.75 | 67.75 | 63.75 | 29.88 | 66.00 | 62.00 | 30.00 | 2.00 |

S-02 Series Stand Alone ERV'S For Side by Side Duct Arrangements

Features and Notes

1. Stand alone design allows higher levels of outdoor air to be introduced into the a/c space.
2. Static test ports provided to verify intake and exhaust CFM.
3. Balancing damper(s) is field provided when connected to ductwork. System will not operate properly without balancing damper.
4. Roof curbs are available for the ERV's.
5. See blower performance charts for airflow at various E.S.P..
6. Filter rack with 2" pleated filters included.

| ERV Roof Curbs | |
|----------------|-------------|
| Series | Model No |
| S11 | 01-2D1-2514 |
| S20 | 01-2D1-3014 |
| S28 | 01-2D1-3614 |
| S36 | 01-2D1-4114 |
| S46 | 01-2D1-4614 |
| S62 | 01-2D1-5214 |

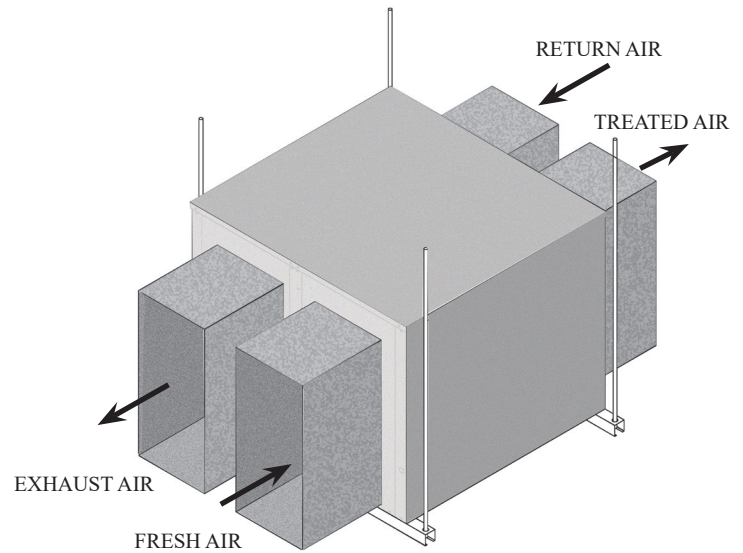


| ERV Data | | Dimensional Data | | | | | | | | | | |
|------------|-----------|------------------|-------|-------|-------|-------|-------|-------|------|------|-------|-------|
| ERV Series | CFM Range | A | B | C | D | E | F | G | H | I | J | K |
| S11-02 | 300-1100 | 44.75 | 32.13 | 33.50 | 11.00 | 27.00 | 4.00 | 4.25 | 2.88 | 2.50 | 20.75 | 14.38 |
| S20-02 | 1200-2000 | 54.38 | 37.25 | 37.50 | 12.00 | 30.00 | 5.87 | 5.13 | 4.06 | 1.63 | 20.75 | 17.50 |
| S28-02 | 1200-2800 | 52.25 | 42.63 | 43.56 | 14.00 | 32.00 | 8.69 | 5.25 | 4.25 | 2.88 | 20.75 | 25.50 |
| S36-02 | 2000-3600 | 60.00 | 46.69 | 57.37 | 16.50 | 39.50 | 12.00 | 5.50 | 4.05 | 5.88 | 20.75 | 25.50 |
| S46-02 | 3000-4600 | 60.00 | 52.69 | 57.37 | 16.50 | 39.50 | 12.00 | 8.69 | 5.50 | 5.88 | 20.75 | 28.06 |
| S62-02 | 4600-6200 | 72.00 | 70.88 | 63.63 | 19.50 | 39.50 | 17.53 | 14.50 | 8.70 | 6.60 | 20.75 | 37.75 |

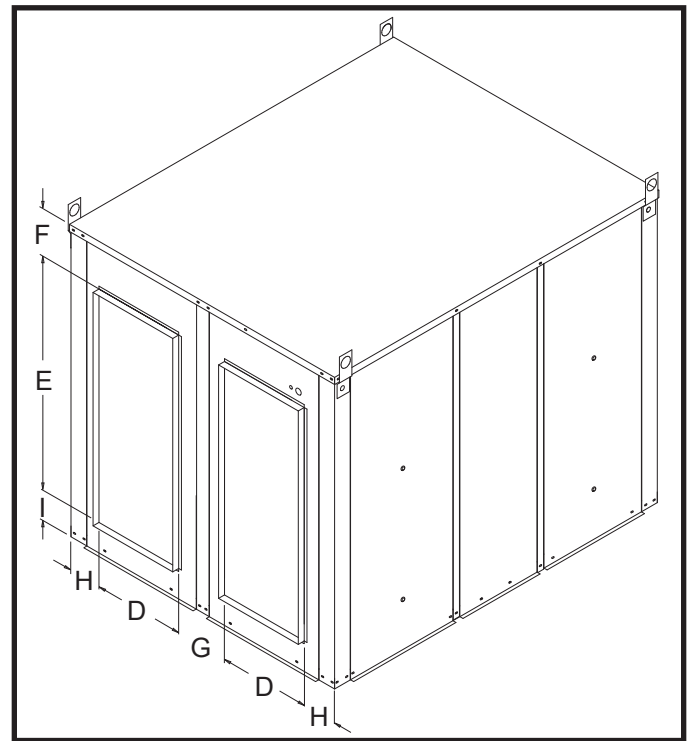
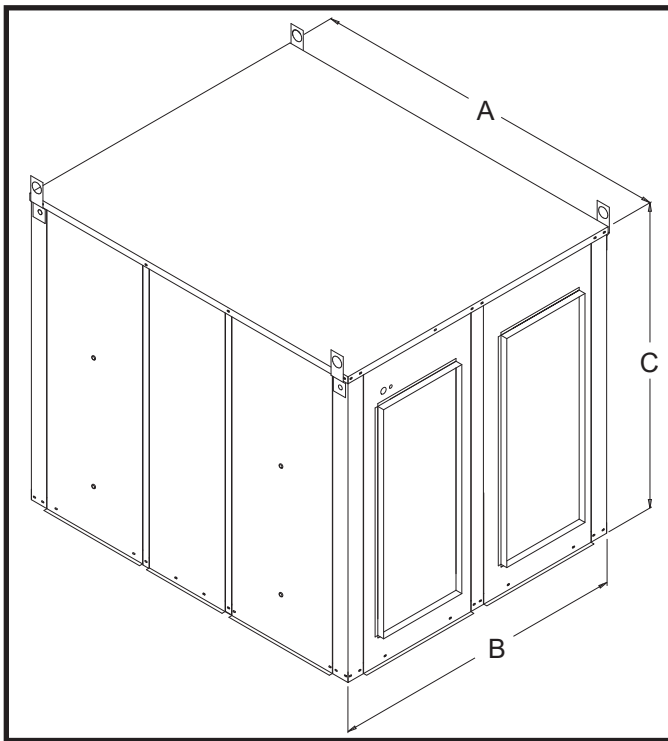
M-02 Series Stand Alone ERV'S For Side by Side Indoor Application

Features and Notes

1. Stand alone design allows higher levels of outdoor air to be introduced into the a/c space.
2. Static test ports provided to verify intake and exhaust CFM.
3. Balancing damper(s) is field provided when connected to ductwork. System will not operate properly without balancing damper.
4. See blower performance charts for airflow at various E.S.P..
5. Filter rack with 2" pleated filters included.



**ERV with Horizontal Ductwork
(balancing damper(s) field supplied)**



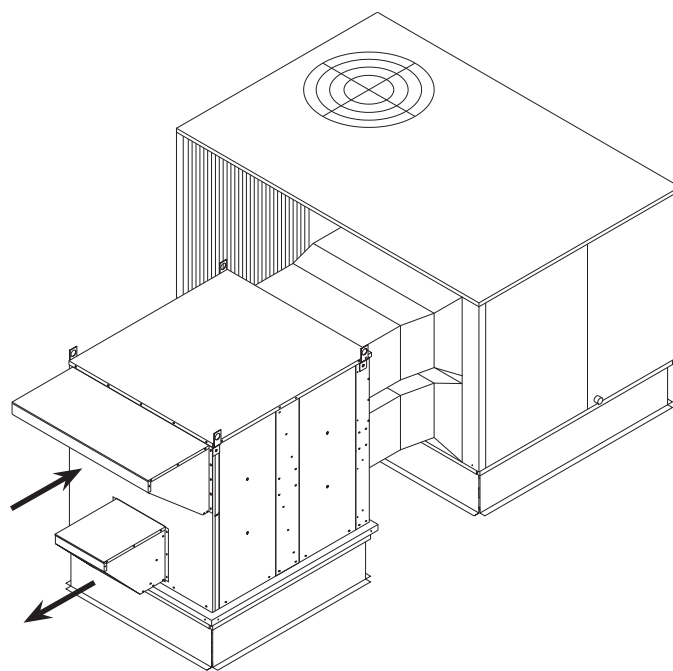
| ERV Data | | Dimensional Data | | | | | | | | |
|------------|-----------|------------------|-------|-------|-------|-------|-------|-------|------|------|
| ERV Series | CFM Range | A | B | C | D | E | F | G | H | I |
| M11-02 | 300-1100 | 44.75 | 32.13 | 33.50 | 11.00 | 27.00 | 4.00 | 4.25 | 2.88 | 2.50 |
| M20-02 | 1200-2000 | 54.38 | 37.25 | 37.50 | 12.00 | 30.00 | 5.87 | 5.13 | 4.06 | 1.63 |
| M28-02 | 1200-2800 | 52.25 | 42.63 | 43.56 | 14.00 | 32.00 | 8.69 | 5.25 | 4.25 | 2.88 |
| M36-02 | 2000-3600 | 60.00 | 46.69 | 57.37 | 16.50 | 39.50 | 12.00 | 5.50 | 4.05 | 5.88 |
| M46-02 | 3000-4600 | 60.00 | 52.69 | 57.37 | 16.50 | 39.50 | 12.00 | 8.69 | 5.50 | 5.88 |
| M62-02 | 4600-6200 | 72.00 | 70.88 | 63.63 | 19.50 | 39.50 | 17.53 | 14.50 | 8.70 | 6.60 |

O-02 Series Stand Alone ERV'S For Over and Under Duct Arrangements

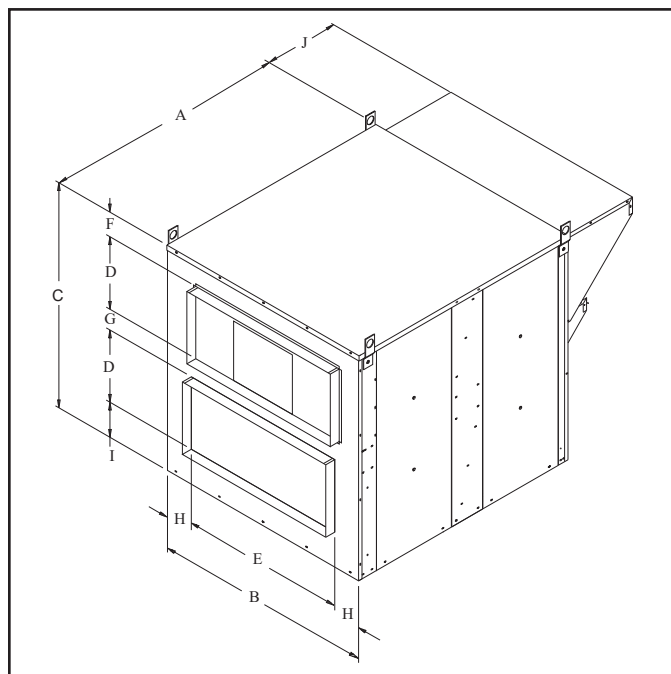
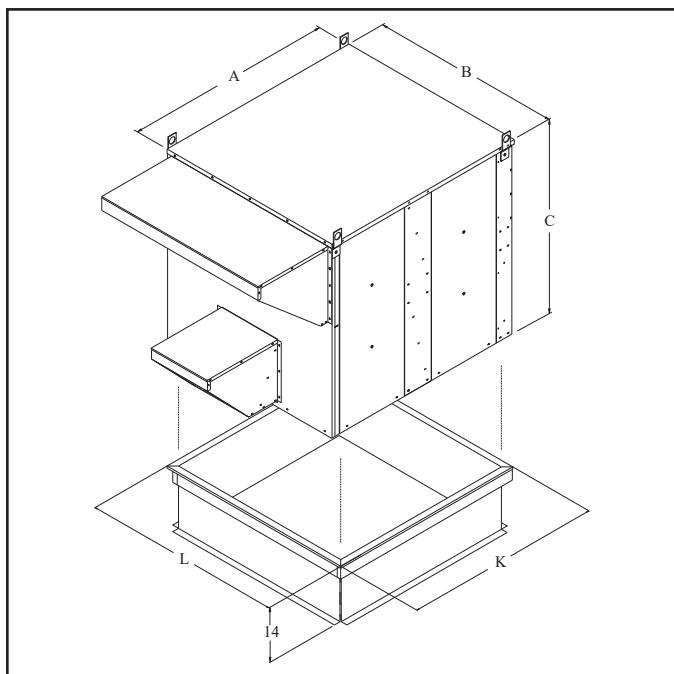
Features and Notes

1. Stand alone design allows higher levels of outdoor air to be introduced into the a/c space.
2. Static test ports provided to verify intake and exhaust CFM.
3. Balancing damper(s) is field provided when connected to ductwork. System may not operate properly without balancing damper.
4. Roof curbs are available for the ERV's.
5. See blower performance charts for airflow at various E.S.P..
6. Filter rack with 2" pleated filters included.

| ERV Roof Curbs | |
|----------------|-------------|
| Series | Model No |
| O11 | 01-201-2514 |
| O20 | 01-2D1-3014 |
| O28 | 01-201-3614 |
| O36 | 01-2D1-4114 |
| O46 | 01-2D1-4614 |
| O62 | 01-201-5214 |



**ERV with Horizontal Ductwork
(balancing damper(s) field supplied)**

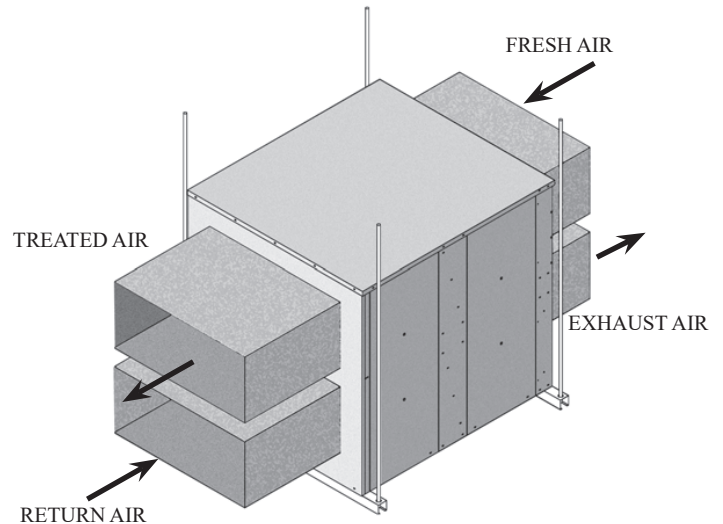


| ERV Data | | Dimensional Data | | | | | | | | | | | |
|------------|-----------|------------------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|
| ERV Series | CFM Range | A | B | C | D | E | F | G | H | I | J | K | L |
| O11-02 | 300-1100 | 56.75 | 32.13 | 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 |

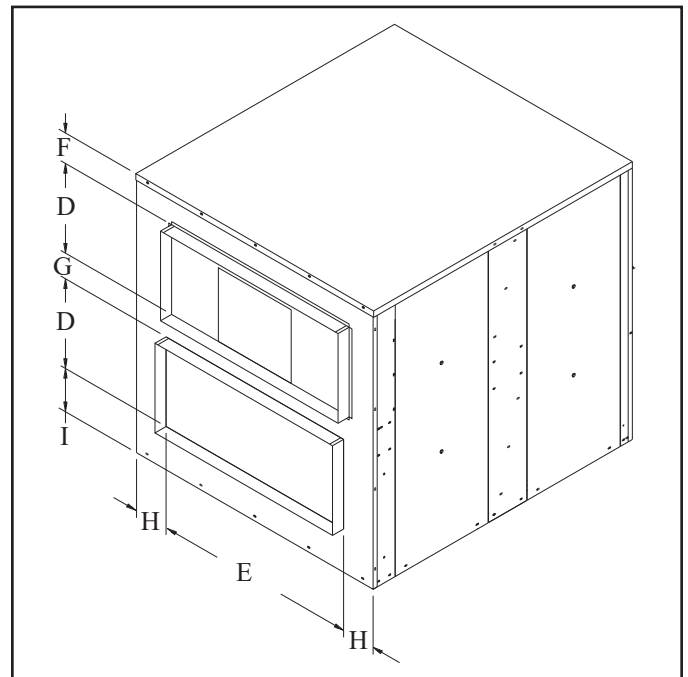
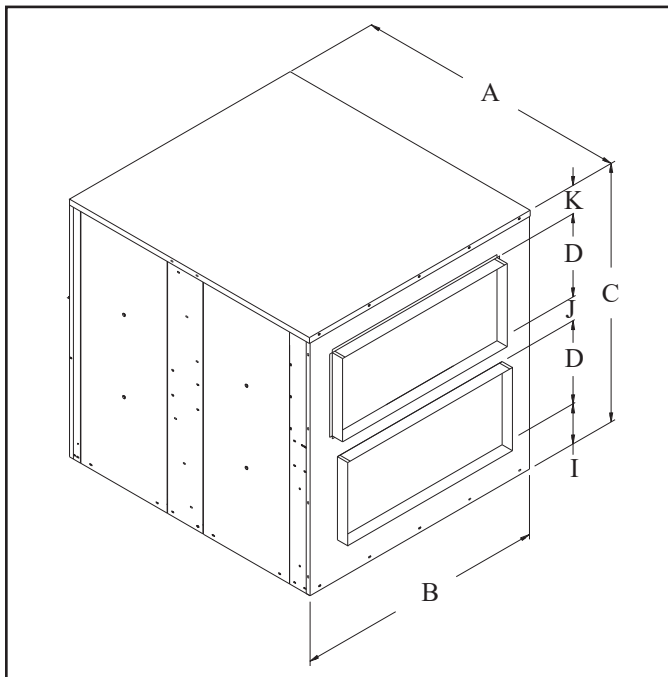
N-02 Series Stand Alone ERV'S For Over and Under Indoor Application

Features and Notes

1. Stand alone design allows higher levels of outdoor air to be introduced into the a/c space.
2. Static test ports provided to verify intake and exhaust CFM.
3. Balancing damper(s) is field provided when connected to ductwork. System will not operate properly without balancing damper.
4. See blower performance charts for airflow at various E.S.P..
5. Filter rack with 2" pleated filters included.

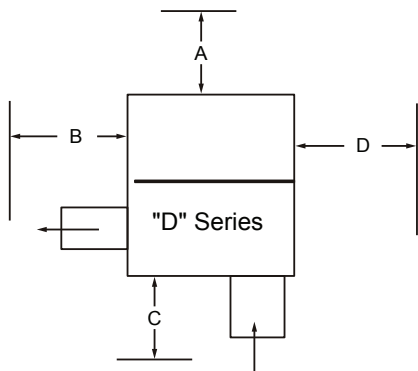


**ERV with Horizontal Ductwork
(balancing damper(s) field supplied)**



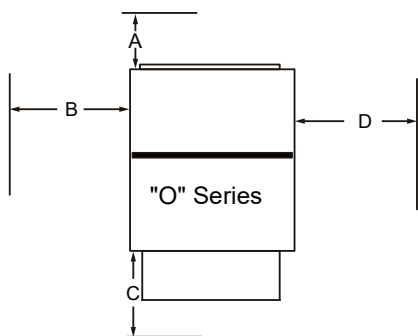
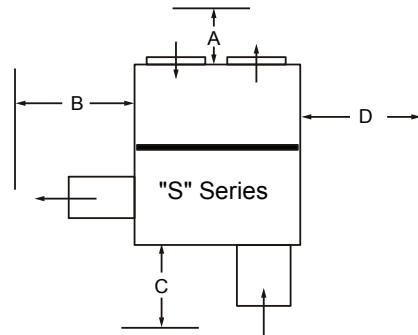
| ERV Data | | Dimensional Data | | | | | | | | | | |
|------------|-----------|------------------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|
| ERV Series | CFM Range | A | B | C | D | E | F | G | H | I | J | K |
| N11-02 | 300-1100 | 56.75 | 32.13 | 39.50 | 11.00 | 27.00 | 6.50 | 10.00 | 2.56 | 1.00 | 10.00 | 6.50 |
| N20-02 | 1200-2000 | 54.38 | 37.25 | 37.50 | 12.00 | 30.00 | 8.00 | 4.00 | 3.63 | 1.50 | 7.00 | 5.00 |
| N28-02 | 1200-2800 | 60.00 | 42.63 | 43.56 | 14.00 | 32.00 | 9.56 | 4.50 | 5.31 | 1.50 | 8.81 | 5.25 |
| N36-02 | 2000-3600 | 60.00 | 46.69 | 57.37 | 16.50 | 39.50 | 12.13 | 6.38 | 3.59 | 5.88 | 11.75 | 6.75 |
| N46-02 | 3000-4600 | 60.00 | 52.69 | 57.37 | 16.50 | 39.50 | 12.13 | 6.38 | 6.59 | 5.88 | 11.75 | 6.75 |
| N62-02 | 4600-6200 | 72.00 | 70.88 | 63.63 | 19.50 | 39.50 | 12.13 | 6.50 | 15.69 | 5.88 | 12.00 | 6.75 |

Service Clearances - Stand Alone "02" Series ERVs



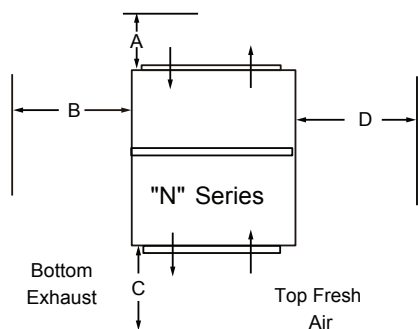
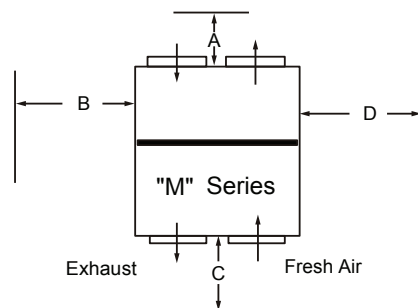
| Dimension (inches) | "D" Series | | | | | |
|--------------------|------------|----|----|----|----|----|
| | 11 | 20 | 28 | 36 | 46 | 62 |
| A | 36 | 36 | 36 | 36 | 36 | 36 |
| B | 60 | 60 | 60 | 60 | 60 | 60 |
| C | 48 | 60 | 60 | 60 | 72 | 72 |
| D | 36 | 36 | 48 | 48 | 60 | 60 |

| Dimension (inches) | "S" Series | | | | | |
|--------------------|------------|----|----|----|----|----|
| | 11 | 20 | 28 | 36 | 46 | 62 |
| 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) | "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 | 48 | 48 | 60 | 60 |

| Dimension (inches) | "M" Series | | | | | |
|--------------------|------------|----|----|----|----|----|
| | 11 | 20 | 28 | 36 | 46 | 62 |
| A | 12 | 12 | 12 | 12 | 12 | 12 |
| B | 36 | 36 | 36 | 36 | 36 | 36 |
| C | 12 | 12 | 12 | 12 | 12 | 12 |
| D | 36 | 36 | 48 | 48 | 60 | 60 |



| Dimension (inches) | "N" Series | | | | | |
|--------------------|------------|----|----|----|----|----|
| | 11 | 20 | 28 | 36 | 46 | 62 |
| A | 12 | 12 | 12 | 12 | 12 | 12 |
| B | 36 | 36 | 36 | 36 | 36 | 36 |
| C | 12 | 12 | 12 | 12 | 12 | 12 |
| D | 36 | 36 | 48 | 48 | 60 | 60 |

Performance - "02" Series

Use this table to determine ventilation and size requirements. Table shows ERV Air Flow Range. AHRI certified performance rating provided in specifications and electrical data Effectiveness. "xL", "xM" and "xH" signify low, medium and high speed.

| ERV CFM Range | RRS ERV Series |
|-----------------------------|----------------------------------------------------------------------------------------------------------|
| 300-1100 | D11, M11, N11, O11, S11 |
| 1200-2000 | D20, M20, N20, O20, S20 |
| 1200-2800 | D28, M28, N28, O28, S28 |
| 2000-3600 | D36, M36, N36, O36, S36 |
| 3000-4600 | D46, M46, N46, O46, S46 |
| 4600-5400 | N62, O62 |
| 4600-6200 | D62, M62, S62 |
| RRS ERV Series Descriptions | |
| Series | Description |
| O | Stand alone outdoor application that attaches to horizontal return air duct in an over and under design. |
| S | Stand alone outdoor application that attaches to horizontal return air duct in an side by side design. |
| N | Over/Under Indoor Application |
| M | Side/Side Indoor Application |
| D | Down Discharge Outdoor Application |

| Filter Sizes - Stand Alone "02" Series | | | | | | | | | |
|----------------------------------------|------|---------------|---------|--------|--------|---------------|---------|-----------|--------|
| Series | Size | Return Filter | | | | Intake Filter | | | |
| | | Qty | Width | Height | Type | Qty | Width | Height | Type |
| D | 11 | 1 | 14 | 20 | 2" PLT | 1 | 16.25 | 10.375 | 1" ME |
| | 20 | 2 | 16 | 20 | | 1 | 12.5 | 20 | |
| | 28 | 2 | 20 | 20 | | 1 | 14.75 | 32.25 | |
| | 36 | 3 | 16 | 20 | | 1 | 16.5 | 32.25 | |
| | 46 | 2 | 24 | 24 | | 1 | 20 | 36 | |
| | 62 | 5 | 14 | 20 | | 1/1 | 20 / 20 | 36 / 12.5 | |
| M | 11 | 1 | 14 | 20 | 2" PLT | 1 | 14 | 20 | 2" PLT |
| | 20 | 2 | 16 | 16 | | 2 | 16 | 16 | |
| | 28 | 2 | 20 | 20 | | 2 | 20 | 20 | |
| | 36 | 3 | 16 | 20 | | 3 | 16 | 20 | |
| | 46 | 2 | 24 | 24 | | 2 | 24 | 24 | |
| | 62 | 5 | 14 | 20 | | 5 | 14 | 20 | |
| N | 11 | 1 | 18 | 25 | 2" PLT | 1 | 18 | 25 | 2" PLT |
| | 20 | 2 | 16 | 16 | | 2 | 16 | 16 | |
| | 28 | 2 | 20 | 20 | | 2 | 20 | 20 | |
| | 36 | 2 / 1 | 16 / 14 | 20 | | 2 / 1 | 16 / 14 | 20 | |
| | 46 | 2 | 24 | 24 | | 2 | 24 | 24 | |
| | 62 | 5 | 14 | 20 | | 5 | 14 | 20 | |
| 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 | |
| S | 11 | 1 | 14 | 20 | 2" PLT | 1 | 16.25 | 10.375 | 1" ME |
| | 20 | 2 | 16 | 20 | | 1 | 12.5 | 20 | |
| | 28 | 2 | 20 | 20 | | 1 | 14.75 | 32.25 | |
| | 36 | 3 | 16 | 20 | | 1 | 16.5 | 32.25 | |
| | 46 | 2 | 24 | 24 | | 1 | 20 | 36 | |
| | 62 | 5 | 14 | 20 | | 1 / 1 | 20 / 20 | 36 / 12.5 | |

Specifications and Electrical Data - 300 through 1100 CFM ERV's

| Model Numbers | | O11-02 - Stand Alone Over/Under N11-02 - Over/Under Indoor Application | | | |
|-----------------------|------------------------------|---------------------------------------------------------------------------|----------------|------------|------------|
| Line Voltage - 60hz | | 208/230v - 1ph | 208/230v - 3ph | 460v - 3ph | 575v - 3ph |
| Fresh Air Blower | Motor - hp | 1.5 / Belt | | | |
| | Wheel Size (dia x width) -in | 9 x 4 | | | |
| | Motor Speed -rpm | 1725 | | | |
| | Motor Speed(s) | Adjustable Sheave | | | |
| | Bearing Type | Ball | | | |
| | Full Load Amps | 9.1 | 5.6 | 2.8 | 2.0 |
| | Service Factor | 1.15 | | | |
| Exhaust Air Blower | Motor - hp Stationary | 1.5 / Belt | | | |
| | Wheel Size (dia x width) -in | 9 x 4 | | | |
| | Motor Speed -rpm | 1725 | | | |
| | Motor Speed(s) | Adjustable Sheave | | | |
| | Bearing Type | Ball | | | |
| | Full Load Amps-Stationary | 9.1 | 5.6 | 2.8 | 2.0 |
| | Service Factor | 1.15 | | | |
| Wheel Electrical Data | Potential Volts | 208 - 230 | | | |
| | Motor Speed -rpm | 1050 | | | |
| | Full Load Amps | 0.3 | | | |
| Total Electrical | MCA - Stationary | 20.8 | 12.9 | 6.6 | 4.8 |
| | OCPD - Stationary | 30 | 15 | 9 | 7 |
| Wheel Data | Wheel Depth - in | 3 | | | |
| | Wheel Diameter - in | 25.3 | | | |
| | Construction / Media | Segmented Pies/Polymeric | | | |
| Curb | Curb Height - in | 14 | | | |
| Weights | Shipping Weight - lbs. (kg) | 389 | | | |
| | Net Weight - lbs. (kg) | 314 | | | |

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 Airflow Data

| | |
|-------------------------------|------------|
| Nominal Airflow CFM | 900 @ 1.0Δ |
| EATR - -1.00 H ₂ O | 9.30% |
| EATR - 0.00 H ₂ O | 0.70% |
| EATR - +1.00 H ₂ O | 0.00% |
| OACF - -1.00 H ₂ O | 0.97 |
| OACF - 0.00 H ₂ O | 1.19 |
| OACF - +1.00 H ₂ O | 1.34 |

Specifications and Electrical Data - 300 through 1100 CFM ERV's

| Model Numbers | | D11-02 - Down Discharge | | | | S11-02 - Stand Alone S/S M11-02 - S/S Indoor Application | | | |
|--------------------------|------------------------------|--------------------------|-----------------|-------------|-------------|-------------------------------------------------------------|-----------------|-------------|-------------|
| Line Voltage - 60hz | | 208/230v 1ph | 208/230v 3ph | 460v 3ph | 575v 3ph | 208/230v 1ph | 208/230v 3ph | 460v 3ph | 575v 3ph |
| Fresh Air Blower | Motor - hp | 1.5 / Belt | | | | 1.5 / Belt | | | |
| | Wheel Size (dia x width) -in | 9 x 4 | | | | 9 x 4 | | | |
| | 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 | 9.1 | 5.6 | 2.8 | 2.0 |
| | Service Factor | 1.15 | | | | 1.15 | | | |
| Exhaust Air Blower | Motor - hp Stationary | 1.5 / Belt | | | | 1.5 / Belt | | | |
| | Wheel Size (dia x width) -in | 9 x 4 | | | | 9 x 4 | | | |
| | Motor Speed -rpm | 1725 | | | | 1725 | | | |
| | Motor Speed(s) | Adjustable Sheave | | | | Adjustable Sheave | | | |
| | Bearing Type | Ball | | | | Ball | | | |
| | Full Load Amps-Stationary | 9.1 | 5.6 | 2.8 | 2.0 | 9.1 | 5.6 | 2.8 | 2.0 |
| | 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 | 20.8 | 12.9 | 6.6 | 4.8 |
| | OCPD - Stationary | 30 | 15 | 9 | 7 | 30 | 15 | 9 | 7 |
| Wheel Data | Wheel Depth - in | 3 | | | | 3 | | | |
| | Wheel Diameter - in | 25.3 | | | | 25.3 | | | |
| | Construction / Media | Segmented Pies/Polymeric | | | | Segmented Pies/Polymeric | | | |
| Curb | Curb Height - in | 14 | | | | 14 | | | |
| Weights | Shipping Weight - lbs. (kg) | 389 | | | | 389 | | | |
| | Net Weight - lbs. (kg) | 314 | | | | 314 | | | |

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 Airflow Data | | | | |
| Nominal Airflow CFM | | 900 @ 1.0Δ | | |
| EATR - -1.00 H ₂ O | | 9.30% | | |
| EATR - 0.00 H ₂ O | | 0.70% | | |
| EATR - +1.00 H ₂ O | | 0.00% | | |
| OACF - -1.00 H ₂ O | | 0.97 | | |
| OACF - 0.00 H ₂ O | | 1.19 | | |
| OACF - +1.00 H ₂ O | | 1.34 | | |

Specifications and Electrical Data - 1200 through 2000 CFM ERV's

| Model Numbers | | O20-02 - Stand Alone O/U N20-02 - O/U Indoor | | | D20-02 Down Discharge | | | S20-02 - Stand Alone S/S M20-02 - S/S Indoor | | |
|--------------------------|------------------------------|-------------------------------------------------|-------------|-------------|--------------------------|-------------|-------------|-------------------------------------------------|-------------|-------------|
| Line Voltage - 60hz | | 208/230v 3ph | 460v 3ph | 575v 3ph | 208/230v 3ph | 460v 3ph | 575v 3ph | 208/230v 3ph | 460v 3ph | 575v 3ph |
| Fresh Air Blower | Motor - hp | 2 / Belt | | | 2 / Belt | | | 2 / Belt | | |
| | Wheel Size (dia x width) -in | 9 x 9 | | | 9 x 9 | | | 9 x 9 | | |
| | Motor Speed -rpm | 1725 | | | 1725 | | | 1725 | | |
| | Motor Speed(s) | Adjustable Sheave | | | Adjustable Sheave | | | Adjustable Sheave | | |
| | Bearing Type | Ball | | | Ball | | | Ball | | |
| | Full Load Amps | 6.0 | 2.6 | 2.4 | 6.0 | 2.6 | 2.4 | 6.0 | 2.6 | 2.4 |
| | Service Factor | 1.15 | | | 1.15 | | | 1.15 | | |
| Exhaust Air Blower | Motor - hp Stationary | 2 / Belt | | | 2 / Belt | | | 2 / Belt | | |
| | Wheel Size (dia x width) -in | 9 x 9 | | | 9 x 9 | | | 9 x 9 | | |
| | Motor Speed -rpm | 1725 | | | 1725 | | | 1725 | | |
| | Motor Speed(s) | Adjustable Sheave | | | Adjustable Sheave | | | Adjustable Sheave | | |
| | Bearing Type | Ball | | | Ball | | | Ball | | |
| | Full Load Amps-Stationary | 6.0 | 2.6 | 2.4 | 6.0 | 2.6 | 2.4 | 6.0 | 2.6 | 2.4 |
| | Service Factor | 1.15 | | | 1.15 | | | 1.15 | | |
| Wheel Electrical Data | Potential Volts | 208 - 230 | | | 208 - 230 | | | 208 - 230 | | |
| | Motor Speed -rpm | 1050 | | | 1050 | | | 1050 | | |
| | Full Load Amps | 0.3 | | | 0.3 | | | 0.3 | | |
| Total Electrical | MCA - Stationary | 13.8 | 6.2 | 5.7 | 13.8 | 6.2 | 5.7 | 13.8 | 6.2 | 5.7 |
| | OC PD - Stationary | 20 | 9 | 8 | 20 | 9 | 8 | 20 | 9 | 8 |
| Wheel Data | Wheel Depth - in | 3 | | | 3 | | | 3 | | |
| | Wheel Diameter - in | 30.346 | | | 30.346 | | | 30.346 | | |
| | Construction / Media | Segmented Pies/Polymeric | | | Segmented Pies/Polymeric | | | Segmented Pies/Polymeric | | |
| Curb | Curb Height - in | 14 | | | 14 | | | 14 | | |
| Weights | Shipping Weight - lbs. (kg) | 650 | | | 650 | | | 650 | | |
| | Net Weight - lbs. (kg) | 570 | | | 570 | | | 570 | | |

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 Airflow Data | | | | |
| Nominal Airflow CFM | | 1600 @ .95Δ | | |
| EATR - -1.00 H ₂ O | | 7.80% | | |
| EATR - 0.00 H ₂ O | | 0.40% | | |
| EATR - +1.00 H ₂ O | | 0.00% | | |
| OACF - -1.00 H ₂ O | | 0.97 | | |
| OACF - 0.00 H ₂ O | | 1.16 | | |
| OACF - +1.00 H ₂ O | | 1.29 | | |

Specifications and Electrical Data - 1200 through 2800 CFM ERV's

| Model Numbers | | O28-02 - Stand Alone O/U N28-02 - O/U Indoor | | | D28-02 Down Discharge | | | S28-02 - Stand Alone S/S M28-02 - S/S Indoor | | |
|--------------------------|------------------------------|-------------------------------------------------|-------------|-------------|--------------------------|-------------|-------------|-------------------------------------------------|-------------|-------------|
| Line Voltage - 60hz | | 208/230v 3ph | 460v 3ph | 575v 3ph | 208/230v 3ph | 460v 3ph | 575v 3ph | 208/230v 3ph | 460v 3ph | 575v 3ph |
| Fresh Air Blower | Motor - hp | 3 / Belt | | | 3 / Belt | | | 3 / Belt | | |
| | Wheel Size (dia x width) -in | 10 x 10 | | | 10 x 10 | | | 10 x 10 | | |
| | Motor Speed -rpm | 1725 | | | 1725 | | | 1725 | | |
| | Motor Speed(s) | Adjustable Sheave | | | Adjustable Sheave | | | Adjustable Sheave | | |
| | Bearing Type | Ball | | | Ball | | | Ball | | |
| | Full Load Amps | 9.4 | 4.3 | 3.2 | 9.4 | 4.3 | 3.2 | 9.4 | 4.3 | 3.2 |
| | Service Factor | 1.15 | | | 1.15 | | | 1.15 | | |
| Exhaust Air Blower | Motor - hp Stationary | 3 / Belt | | | 3 / Belt | | | 3 / Belt | | |
| | Wheel Size (dia x width) -in | 10 x 10 | | | 10 x 10 | | | 10 x 10 | | |
| | Motor Speed -rpm | 1725 | | | 1725 | | | 1725 | | |
| | Motor Speed(s) | Adjustable Sheave | | | Adjustable Sheave | | | Adjustable Sheave | | |
| | Bearing Type | Ball | | | Ball | | | Ball | | |
| | Full Load Amps-Stationary | 9.4 | 4.3 | 3.2 | 9.4 | 4.3 | 3.2 | 9.4 | 4.3 | 3.2 |
| | Service Factor | 1.15 | | | 1.15 | | | 1.15 | | |
| Wheel Electrical Data | Motor - hp (1 phase) | 0.05 | | | 0.05 | | | 0.05 | | |
| | Potential Volts | 200 / 208 - 230 | | | 200 / 208 - 230 | | | 200 / 208 - 230 | | |
| | Motor Speed -rpm | 825 | | | 825 | | | 825 | | |
| | Full Load Amps | 0.6 | | | 0.6 | | | 0.6 | | |
| Total Electrical | MCA - Stationary | 21.8 | 10.3 | 7.8 | 21.8 | 10.3 | 7.8 | 21.8 | 10.3 | 7.8 |
| | OCPD - Stationary | 30 | 12 | 10 | 30 | 12 | 10 | 30 | 12 | 10 |
| Wheel Data | Wheel Depth x Dia - in | 3 x 37.759 | | | 3 x 37.759 | | | 3 x 37.759 | | |
| | Construction / Media | Segmented Pies/Polymeric | | | Segmented Pies/Polymeric | | | Segmented Pies/Polymeric | | |
| Curb | Curb Height - in | 14 | | | 14 | | | 14 | | |
| Weights | Shipping Weight - lbs. (kg) | 876 | | | 876 | | | 876 | | |
| | Net Weight - lbs. (kg) | 801 | | | 801 | | | 801 | | |

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 Airflow Data | | | | |
| Nominal Airflow CFM | | 2600 @ .95Δ | | |
| EATR - -1.00 H ₂ O | | 6.10% | | |
| EATR - 0.00 H ₂ O | | 0.40% | | |
| EATR - +1.00 H ₂ O | | 0.00% | | |
| OACF - -1.00 H ₂ O | | 0.99 | | |
| OACF - 0.00 H ₂ O | | 1.13 | | |
| OACF - +1.00 H ₂ O | | 1.23 | | |

Specifications and Electrical Data - 2000 through 3600 CFM ERV's

| Model Numbers | | O36-02 - Stand Alone O/U N36-02 - O/U Indoor | | | D36-02 Down Discharge | | | S36-02 - Stand Alone S/S M36-02 - S/S Indoor | | |
|--------------------------|------------------------------|-------------------------------------------------|-------------|-------------|--------------------------|-------------|-------------|-------------------------------------------------|-------------|-------------|
| Line Voltage - 60hz | | 208/230v 3ph | 460v 3ph | 575v 3ph | 208/230v 3ph | 460v 3ph | 575v 3ph | 208/230v 3ph | 460v 3ph | 575v 3ph |
| Fresh Air Blower | Motor - hp | 3 / Belt | | | 3 / Belt | | | 3 / Belt | | |
| | Wheel Size (dia x width) -in | 12 x 9 | | | 12 x 9 | | | 12 x 9 | | |
| | Motor Speed -rpm | 1725 | | | 1725 | | | 1725 | | |
| | Motor Speed(s) | Adjustable Sheave | | | Adjustable Sheave | | | Adjustable Sheave | | |
| | Bearing Type | Ball | | | Ball | | | Ball | | |
| | Full Load Amps | 9.4 | 4.3 | 3.2 | 9.4 | 4.3 | 3.2 | 9.4 | 4.3 | 3.2 |
| | Service Factor | 1.15 | | | 1.15 | | | 1.15 | | |
| Exhaust Air Blower | Motor - hp Stationary | 3 / Belt | | | 3 / Belt | | | 3 / Belt | | |
| | Wheel Size (dia x width) -in | 12 x 9 | | | 12 x 9 | | | 12 x 9 | | |
| | Motor Speed -rpm | 1725 | | | 1725 | | | 1725 | | |
| | Motor Speed(s) | Adjustable Sheave | | | Adjustable Sheave | | | Adjustable Sheave | | |
| | Bearing Type | Ball | | | Ball | | | Ball | | |
| | Full Load Amps-Stationary | 9.4 | 4.3 | 3.2 | 9.4 | 4.3 | 3.2 | 9.4 | 4.3 | 3.2 |
| | Service Factor | 1.15 | | | 1.15 | | | 1.15 | | |
| Wheel Electrical Data | Motor - hp (1 phase) | 0.17 | | | 0.17 | | | 0.17 | | |
| | Potential Volts | 200 / 208 - 230 | | | 200 / 208 - 230 | | | 200 / 208 - 230 | | |
| | Motor Speed -rpm | 1075 | | | 1075 | | | 1075 | | |
| | Full Load Amps | 1.2 | | | 1.2 | | | 1.2 | | |
| Total Electrical | MCA - Stationary | 22.4 | 10.9 | 8.4 | 22.4 | 10.9 | 8.4 | 22.4 | 10.9 | 8.4 |
| | OC PD - Stationary | 30 | 15 | 10 | 30 | 15 | 10 | 30 | 15 | 10 |
| Wheel Data | Wheel Depth x Dia - in | 3 x 41.825 | | | 3 x 41.825 | | | 3 x 41.825 | | |
| | Construction / Media | Segmented Pies/Polymeric | | | Segmented Pies/Polymeric | | | Segmented Pies/Polymeric | | |
| Curb | Curb Height - in | 14 | | | 14 | | | 14 | | |
| Weights | Shipping Weight - lbs. (kg) | 950 | | | 950 | | | 950 | | |
| | Net Weight - lbs. (kg) | 854 | | | 854 | | | 854 | | |

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 Airflow Data | | | | |
| Nominal Airflow CFM | | 3100 @ .95Δ | | |
| EATR - -1.00 H ₂ O | | 4.90% | | |
| EATR - 0.00 H ₂ O | | 1.30% | | |
| EATR - +1.00 H ₂ O | | 0.30% | | |
| OACF - -1.00 H ₂ O | | 0.99 | | |
| OACF - 0.00 H ₂ O | | 1.07 | | |
| OACF - +1.00 H ₂ O | | 1.12 | | |

Specifications and Electrical Data - 3000 through 4600 CFM ERV's

| Model Numbers | | O46-02 - Stand Alone O/U N46-02 - O/U Indoor | | | D46-02 Down Discharge | | | S46-02 - Stand Alone S/S M46-02 - S/S Indoor | | |
|--------------------------|------------------------------|-------------------------------------------------|-------------|-------------|--------------------------|-------------|-------------|-------------------------------------------------|-------------|-------------|
| Line Voltage - 60hz | | 208/230v 3ph | 460v 3ph | 575v 3ph | 208/230v 3ph | 460v 3ph | 575v 3ph | 208/230v 3ph | 460v 3ph | 575v 3ph |
| Fresh Air Blower | Motor - hp | 5 / Belt | | | 5 / Belt | | | 5 / Belt | | |
| | Wheel Size (dia x width) -in | 12 x 12 | | | 12 x 12 | | | 12 x 12 | | |
| | Motor Speed -rpm | 1725 | | | 1725 | | | 1725 | | |
| | Motor Speed(s) | Adjustable Sheave | | | Adjustable Sheave | | | Adjustable Sheave | | |
| | Bearing Type | Ball | | | Ball | | | Ball | | |
| | Full Load Amps | 14.8 | 7.0 | 5.1 | 14.8 | 7.0 | 5.1 | 14.8 | 7.0 | 5.1 |
| | Service Factor | 1.15 | | | 1.15 | | | 1.15 | | |
| Exhaust Air Blower | Motor - hp Stationary | 5 / Belt | | | 5 / Belt | | | 5 / Belt | | |
| | Wheel Size (dia x width) -in | 12 x 12 | | | 12 x 12 | | | 12 x 12 | | |
| | Motor Speed -rpm | 1725 | | | 1725 | | | 1725 | | |
| | Motor Speed(s) | Adjustable Sheave | | | Adjustable Sheave | | | Adjustable Sheave | | |
| | Bearing Type | Ball | | | Ball | | | Ball | | |
| | Full Load Amps-Stationary | 14.8 | 7.0 | 5.1 | 14.8 | 7.0 | 5.1 | 14.8 | 7.0 | 5.1 |
| | Service Factor | 1.15 | | | 1.15 | | | 1.15 | | |
| Wheel Electrical Data | Motor - hp (1 phase) | 0.17 | | | 0.17 | | | 0.17 | | |
| | Potential Volts | 200 / 208 - 230 | | | 200 / 208 - 230 | | | 200 / 208 - 230 | | |
| | Motor Speed -rpm | 1075 | | | 1075 | | | 1075 | | |
| | Full Load Amps | 1.2 | | | 1.2 | | | 1.2 | | |
| Total Electrical | MCA - Stationary | 34.5 | 17.0 | 12.7 | 34.5 | 17.0 | 12.7 | 34.5 | 17.0 | 12.7 |
| | OCPD - Stationary | 40 | 25 | 15 | 40 | 25 | 15 | 40 | 25 | 15 |
| Wheel Data | Wheel Depth x Dia - in | 3 x 46.776 | | | 3 x 46.776 | | | 3 x 46.776 | | |
| | Construction / Media | Segmented Pies/Polymeric | | | Segmented Pies/Polymeric | | | Segmented Pies/Polymeric | | |
| Curb | Curb Height - in | 14 | | | 14 | | | 14 | | |
| Weights | Shipping Weight - lbs. (kg) | 1228 | | | 1228 | | | 1228 | | |
| | Net Weight - lbs. (kg) | 1113 | | | 1113 | | | 1113 | | |

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 Airflow Data | | | | |
| Nominal Airflow CFM | | 3900 @ .95Δ | | |
| EATR - -1.00 H ₂ O | | 4.40% | | |
| EATR - 0.00 H ₂ O | | 1.10% | | |
| EATR - +1.00 H ₂ O | | 0.20% | | |
| OACF - -1.00 H ₂ O | | 0.99 | | |
| OACF - 0.00 H ₂ O | | 1.06 | | |
| OACF - +1.00 H ₂ O | | 1.11 | | |

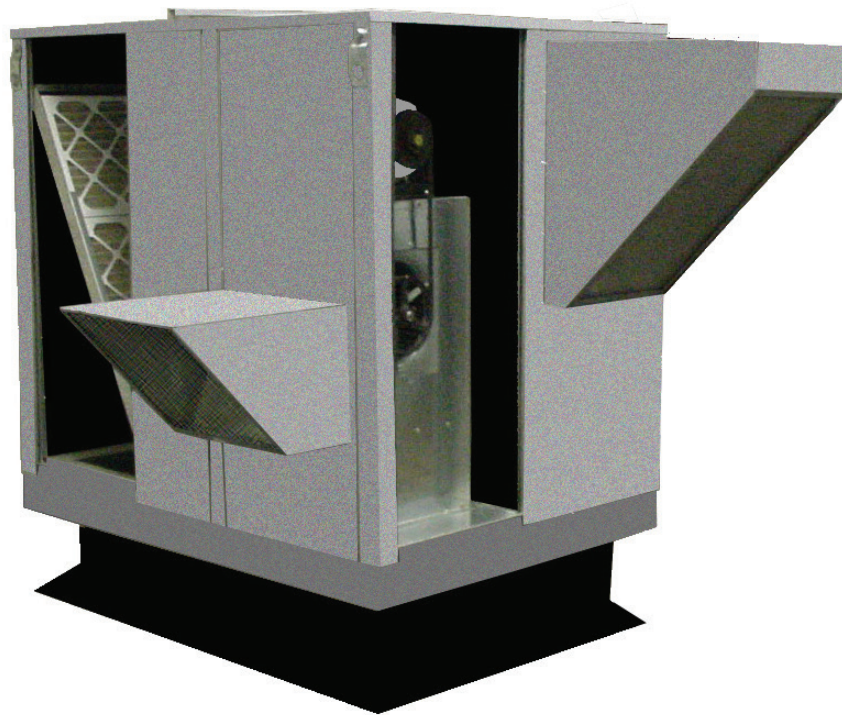
Specifications and Electrical Data - 4600 through 6200 CFM ERV's

| Model Numbers | | O62-02 - Stand Alone O/U N62-02 - O/U Indoor | | | D62-02 Down Discharge | | | S62-02 - Stand Alone S/S M62-02 - S/S Indoor | | |
|--------------------------|------------------------------|-------------------------------------------------|-------------|-------------|--------------------------|-------------|-------------|-------------------------------------------------|-------------|-------------|
| Line Voltage - 60hz | | 208/230v 3ph | 460v 3ph | 575v 3ph | 208/230v 3ph | 460v 3ph | 575v 3ph | 208/230v 3ph | 460v 3ph | 575v 3ph |
| Fresh Air Blower | Motor - hp | 5 / belt | | | 5 / belt | | | 5 / belt | | |
| | Wheel Size (dia x width) -in | 15 x 15 | | | 15 x 15 | | | 15 x 15 | | |
| | Motor Speed -rpm | 1725 | | | 1725 | | | 1725 | | |
| | Motor Speed(s) | Adjustable Sheave | | | Adjustable Sheave | | | Adjustable Sheave | | |
| | Bearing Type | Ball | | | Ball | | | Ball | | |
| | Full Load Amps | 14.8 | 7.0 | 5.1 | 14.8 | 7.0 | 5.1 | 14.8 | 7.0 | 5.1 |
| | Service Factor | 1.15 | | | 1.15 | | | 1.15 | | |
| Exhaust Air Blower | Motor - hp Stationary | 5 / Belt | | | 5 / Belt | | | 5 / Belt | | |
| | Wheel Size (dia x width) -in | 15 x 15 | | | 15 x 15 | | | 15 x 15 | | |
| | Motor Speed -rpm | 1725 | | | 1725 | | | 1725 | | |
| | Motor Speed(s) | Adjustable Sheave | | | Adjustable Sheave | | | Adjustable Sheave | | |
| | Bearing Type | Ball | | | Ball | | | Ball | | |
| | Full Load Amps-Stationary | 14.8 | 7.0 | 5.1 | 14.8 | 7.0 | 5.1 | 14.8 | 7.0 | 5.1 |
| | Service Factor | 1.15 | | | 1.15 | | | 1.15 | | |
| Wheel Electrical Data | Motor - hp (1 phase) | 0.17 | | | 0.17 | | | 0.17 | | |
| | Potential Volts | 200 / 208 - 230 | | | 200 / 208 - 230 | | | 200 / 208 - 230 | | |
| | Motor Speed -rpm | 1075 | | | 1075 | | | 1075 | | |
| | Full Load Amps | 1.2 | | | 1.2 | | | 1.2 | | |
| Total Electrical | MCA - Stationary | 34.5 | 17.0 | 12.7 | 34.5 | 17.0 | 12.7 | 34.5 | 17.0 | 12.7 |
| | OC PD - Stationary | 40 | 25 | 15 | 40 | 25 | 15 | 40 | 25 | 15 |
| Wheel Data | Wheel Depth x Dia - in | 3 x 52.026 | | | 3 x 52.026 | | | 3 x 52.026 | | |
| | Construction / Media | Segmented Pies/Polymeric | | | Segmented Pies/Polymeric | | | Segmented Pies/Polymeric | | |
| Curb | Curb Height - in | 14 | | | 14 | | | 14 | | |
| Weights | Shipping Weight - lbs. (kg) | 1380 | | | 1380 | | | 1380 | | |
| | Net Weight - lbs. (kg) | 1205 | | | 1205 | | | 1205 | | |

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 Airflow Data | | | | |
| Nominal Airflow CFM | | 5500 @ .95Δ | | |
| EATR - -1.00 H ₂ O | | 4.00% | | |
| EATR - 0.00 H ₂ O | | 1.00% | | |
| EATR - +1.00 H ₂ O | | 0.20% | | |
| OACF - -1.00 H ₂ O | | 0.99 | | |
| OACF - 0.00 H ₂ O | | 1.06 | | |
| OACF - +1.00 H ₂ O | | 1.10 | | |

Down Discharge Energy Recovery Ventilators Preliminary Airflow Charts



"D-02" Series
Outdoor Units

Airflow Performance - Downflow Configuration for D11 & D20

Blower RPM for D11

SUPPLY

| Mist Eliminator Filter in Intake Hood (1.5HP) | | | | | | | | |
|-----------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 300 | N/A | N/A | 1175 | 1350 | 1450 | 1605 | 1730 |
| | 500 | N/A | 1170 | 1340 | 1540 | 1655 | 1725 | 1840 |
| | 700 | 1295 | 1425 | 1600 | 1625 | 1795 | 1960 | 2035 |
| | 900 | 1540 | 1660 | 1720 | 1790 | 2030 | 2110 | 2195 |
| | 1100 | 1785 | 1915 | 2025 | 2185 | N/A | N/A | N/A |

EXHAUST

| Barometric Hood, 2" Pleated Filters (1.5HP) | | | | | | | | |
|---------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 300 | N/A | N/A | 1030 | 1225 | N/A | N/A | N/A |
| | 500 | N/A | 1025 | 1180 | 1265 | 1425 | 1535 | N/A |
| | 700 | 1120 | 1190 | 1340 | 1445 | 1540 | 1645 | 1720 |
| | 900 | 1285 | 1525 | 1500 | 1575 | 1670 | 1785 | 1865 |
| | 1100 | 1570 | 1665 | 1670 | 1775 | 1860 | 1920 | N/A |

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 Kit |
| | High | 1750-2200 | Optional Kit |

Blower RPM for D20

SUPPLY

| Mist Eliminator Filter in Intake Hood (2HP) | | | | | | | | |
|---------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 1200 | 1055 | 1135 | 1295 | 1420 | 1540 | 1650 | 1725 |
| | 1400 | 1140 | 1240 | 1340 | 1490 | 1600 | 1690 | 1795 |
| | 1600 | 1200 | 1330 | 1460 | 1565 | 1645 | 1740 | 1830 |
| | 1800 | 1320 | 1405 | 1525 | 1615 | 1705 | 1785 | 1885 |
| | 2000 | 1415 | 1515 | 1605 | 1690 | 1775 | 1875 | 1960 |

EXHAUST

| Barometric Hood, 2" Pleated Filters (2HP) | | | | | | | | |
|-------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 1200 | 1010 | 1195 | 1350 | 1445 | 1580 | 1685 | 1735 |
| | 1400 | 1125 | 1315 | 1435 | 1545 | 1620 | 1730 | 1800 |
| | 1600 | 1185 | 1370 | 1500 | 1610 | 1695 | 1790 | 1965 |
| | 1800 | 1305 | 1485 | 1600 | 1685 | 1781 | 1955 | 2030 |
| | 2000 | 1410 | 1550 | 1670 | 1765 | 1855 | N/A | N/A |

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 Kit |
| | High | 1700-2080 | Optional Kit |

Airflow Performance - Downflow Configuration for D28 & D36

Blower RPM for D28

SUPPLY

| Mist Eliminator Filter in Intake Hood (3HP) | | | | | | | | |
|---------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 1200 | N/A | 790 | 960 | 1110 | 1210 | 1315 | 1380 |
| | 1600 | 750 | 900 | 1005 | 1145 | 1230 | 1365 | 1410 |
| | 2000 | 900 | 1005 | 1105 | 1210 | 1275 | 1400 | 1450 |
| | 2400 | 1005 | 1125 | 1210 | 1275 | 1365 | 1450 | 1500 |
| | 2800 | 1125 | 1230 | 1315 | 1380 | 1450 | 1535 | 1600 |

EXHAUST

| Barometric Hood, 2" Pleated Filters (3HP) | | | | | | | | |
|-------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 1200 | 750 | 885 | 1015 | 1145 | 1260 | 1350 | 1485 |
| | 1600 | 870 | 1015 | 1125 | 1215 | 1325 | 1410 | 1500 |
| | 2000 | 1015 | 1145 | 1240 | 1345 | 1410 | 1485 | 1560 |
| | 2400 | 1125 | 1250 | 1345 | 1430 | 1500 | 1575 | 1630 |
| | 2800 | 1250 | 1410 | 1485 | 1520 | 1630 | 1650 | 1675 |

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 Kit |
| | High | 1311-1708 | Optional Kit |

Blower RPM for D36

SUPPLY

| Mist Eliminator Filter in Intake Hood (3HP) | | | | | | | | |
|---------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 2000 | 725 | 825 | 900 | 1000 | 1070 | 1180 | 1250 |
| | 2400 | 800 | 900 | 1000 | 1070 | 1160 | 1250 | 1275 |
| | 2800 | 900 | 1000 | 1070 | 1160 | 1250 | 1275 | 1340 |
| | 3200 | 1000 | 1070 | 1160 | 1250 | 1275 | 1340 | 1400 |
| | 3600 | 1055 | 1180 | 1250 | 1300 | 1360 | N/A | N/A |

EXHAUST

| Barometric Hood, 2" Pleated Filters (3HP) | | | | | | | | |
|-------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 2000 | 750 | 865 | 950 | 1030 | 1100 | 1200 | 1265 |
| | 2400 | 820 | 950 | 1035 | 1100 | 1200 | 1265 | 1300 |
| | 2800 | 925 | 1035 | 1150 | 1200 | 1265 | 1315 | 1350 |
| | 3200 | 1035 | 1160 | 1215 | 1265 | 1325 | 1350 | 1390 |
| | 3600 | 1100 | 1215 | 1300 | 1350 | 1390 | N/A | N/A |

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 Kit |
| | High | 1215-1425 | Optional Kit |

Airflow Performance - Downflow Configuration for D46 & D62

Blower RPM for D46

SUPPLY

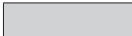


| Mist Eliminator Filter in Intake Hood (5HP) | | | | | | | | |
|---------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 3000 | 900 | 1030 | 1100 | 1165 | 1240 | 1285 | 1350 |
| | 3400 | 975 | 1085 | 1175 | 1240 | 1290 | 1350 | 1400 |
| | 3800 | 1070 | 1175 | 1240 | 1290 | 1350 | 1400 | 1465 |
| | 4200 | 1165 | 1240 | 1320 | 1350 | 1430 | 1465 | 1515 |
| | 4600 | 1240 | 1320 | 1375 | 1430 | 1500 | 1515 | 1580 |

EXHAUST

| Barometric Hood, 2" Pleated Filters (5HP) | | | | | | | | |
|-------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 3000 | 955 | 1100 | 1160 | 1245 | 1280 | 1360 | 1425 |
| | 3400 | 1055 | 1185 | 1245 | 1300 | 1375 | 1425 | 1480 |
| | 3800 | 1160 | 1300 | 1360 | 1400 | 1425 | 1530 | 1585 |
| | 4200 | 1245 | 1375 | 1450 | 1480 | 1500 | 1585 | 1650 |
| | 4600 | 1360 | 1450 | 1500 | 1585 | 1600 | 1650 | 1700 |

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 Kit |
|  | High 1315-1700 | Optional Kit |

Blower RPM for D62

SUPPLY




| Mist Eliminator Filter in Intake Hood (5HP) | | | | | | | | |
|---------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 4600 | 815 | 900 | 975 | 1045 | 1085 | 1125 | 1175 |
| | 5000 | 880 | 940 | 1015 | 1060 | 1135 | 1175 | 1215 |
| | 5400 | 915 | 975 | 1045 | 1125 | 1150 | 1195 | 1250 |
| | 5800 | 975 | 1045 | 1085 | 1175 | 1250 | 1260 | N/A |
| | 6200 | 1000 | 1075 | 1165 | 1200 | N/A | N/A | N/A |

EXHAUST

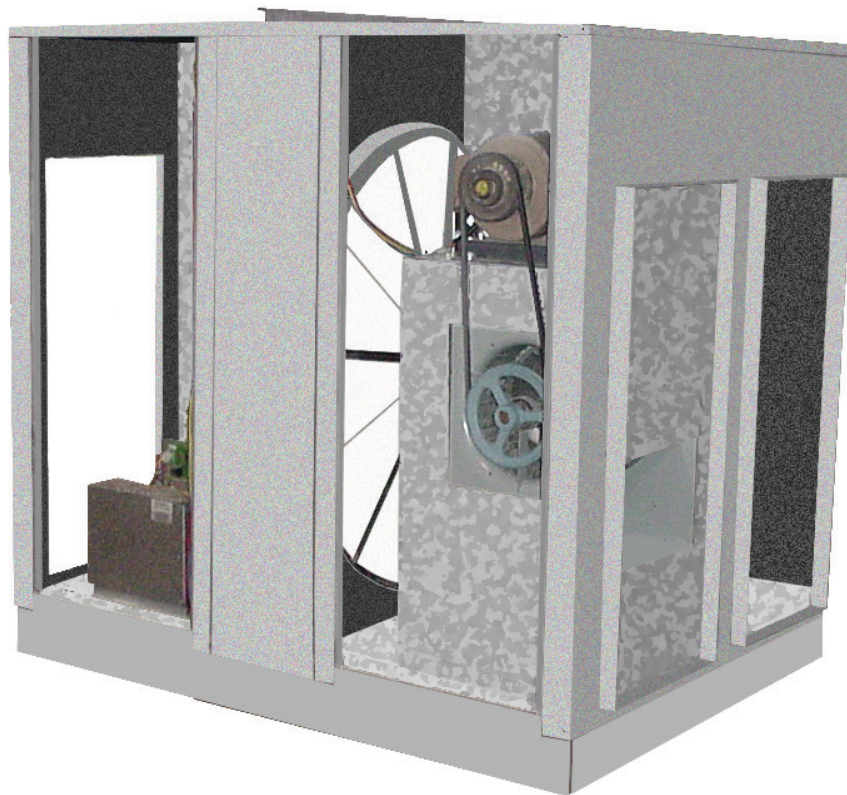
| Barometric Hood, 2" Pleated Filters (5HP) | | | | | | | | |
|-------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 4600 | 825 | 915 | 1000 | 1025 | 1100 | 1140 | 1170 |
| | 5000 | 890 | 975 | 1025 | 1100 | 1140 | 1170 | 1240 |
| | 5400 | 925 | 1000 | 1085 | 1140 | 1170 | 1240 | 1280 |
| | 5800 | 975 | 1025 | 1140 | 1170 | 1240 | N/A | N/A |
| | 6200 | 1025 | 1120 | 1170 | N/A | N/A | N/A | N/A |

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 Kit |
|  | High 1175-1375 | Optional Kit |

Side by Side Discharge Indoor Unit Energy Recovery Ventilators Preliminary Airflow Charts



"M-02" Series
Indoor Units

Airflow Performance - Side by Side Duct Configuration for M11 & M20

Blower RPM for M11

SUPPLY

| Mist Eliminator Filter in Intake Hood (1.5HP) | | | | | | | | |
|-----------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 300 | N/A | N/A | 1075 | 1280 | 1390 | 1535 | 1635 |
| | 500 | N/A | 1065 | 1275 | 1355 | 1505 | 1615 | 1670 |
| | 700 | 1060 | 1270 | 1370 | 1525 | 1610 | 1660 | 1790 |
| | 900 | 1310 | 1455 | 1520 | 1605 | 1655 | 1820 | 1960 |
| | 1100 | 1445 | 1515 | 1625 | 1725 | 1815 | 1955 | 2035 |

EXHAUST

| Barometric Hood, 2" Pleated Filters (1.5HP) | | | | | | | | |
|---------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 300 | N/A | 1075 | 1180 | 1290 | 1445 | 1565 | 1645 |
| | 500 | N/A | 1170 | 1285 | 1375 | 1470 | 1605 | 1725 |
| | 700 | 1065 | 1280 | 1370 | 1465 | 1600 | 1680 | 1800 |
| | 900 | 1255 | 1360 | 1460 | 1590 | 1675 | 1755 | 1865 |
| | 1100 | 1445 | 1455 | 1585 | 1670 | 1750 | 1860 | 1935 |

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 | 1300-1750 | Optional Kit |
| | High | 1750-2200 | Optional Kit |

Blower RPM for M20

SUPPLY

| Mist Eliminator Filter in Intake Hood (2HP) | | | | | | | | |
|---------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 1200 | 1100 | 1225 | 1315 | 1405 | 1440 | 1695 | 1725 |
| | 1400 | 1220 | 1275 | 1400 | 1480 | 1620 | 1730 | 1790 |
| | 1600 | 1225 | 1345 | 1475 | 1615 | 1715 | 1775 | 1890 |
| | 1800 | 1335 | 1465 | 1610 | 1710 | 1765 | 1880 | 1930 |
| | 2000 | 1380 | 1585 | 1680 | 1755 | 1815 | 1920 | N/A |

EXHAUST

| Barometric Hood, 2" Pleated Filters (2HP) | | | | | | | | |
|-------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 1200 | 1045 | 1170 | 1380 | 1475 | 1635 | 1720 | 1805 |
| | 1400 | 1115 | 1330 | 1470 | 1570 | 1725 | 1745 | 1850 |
| | 1600 | 1320 | 1460 | 1565 | 1680 | 1790 | 1840 | 1940 |
| | 1800 | 1415 | 1560 | 1725 | 1780 | 1885 | 1930 | 2045 |
| | 2000 | 1490 | 1660 | 1770 | 1875 | 1920 | 1985 | N/A |

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 Kit |
| | High | 1700-2080 | Optional Kit |

Airflow Performance - Side by Side Duct Configuration for M28 & M36

Blower RPM for M28

SUPPLY

| Mist Eliminator Filter in Intake Hood (3HP) | | | | | | | | |
|---------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 1200 | N/A | N/A | 985 | 1115 | 1255 | 1390 | 1445 |
| | 1600 | N/A | 975 | 1090 | 1190 | 1320 | 1320 | 1525 |
| | 2000 | 960 | 1085 | 1185 | 1315 | 1410 | 1410 | 1550 |
| | 2400 | 1080 | 1240 | 1310 | 1405 | 1485 | 1485 | 1650 |
| | 2800 | 1230 | 1395 | 1505 | 1535 | 1595 | 1595 | 1775 |

EXHAUST

| Barometric Hood, 2" Pleated Filters (3HP) | | | | | | | | |
|-------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 1200 | N/A | N/A | 1050 | 1210 | 1315 | 1375 | 1465 |
| | 1600 | N/A | 1020 | 1200 | 1285 | 1365 | 1465 | 1545 |
| | 2000 | 1010 | 1190 | 1320 | 1355 | 1540 | 1580 | 1660 |
| | 2400 | 1155 | 1315 | 1425 | 1545 | 1660 | 1735 | 1785 |
| | 2800 | 1290 | 1450 | 1600 | 1725 | 1755 | 1825 | 1880 |

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 | 950-1320 | Standard Unit |
| | Medium | 1325-1565 | Optional Kit |
| | High | 1570-1880 | Optional Kit |

Blower RPM for M36

SUPPLY

| Mist Eliminator Filter in Intake Hood (3HP) | | | | | | | | |
|---------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 2000 | 820 | 930 | 1015 | 1095 | 1160 | 1245 | 1315 |
| | 2400 | 920 | 1010 | 1090 | 1155 | 1240 | 1305 | 1405 |
| | 2800 | 1000 | 1085 | 1150 | 1235 | 1295 | 1410 | 1500 |
| | 3200 | 1130 | 1200 | 1260 | 1395 | 1430 | 1495 | 1565 |
| | 3600 | 1190 | 1385 | 1420 | 1455 | 1510 | N/A | N/A |

EXHAUST

| Barometric Hood, 2" Pleated Filters (3HP) | | | | | | | | |
|-------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 2000 | 780 | 890 | 970 | 1065 | 1130 | 1235 | 1275 |
| | 2400 | 885 | 965 | 1060 | 1125 | 1230 | 1270 | 1340 |
| | 2800 | 945 | 1055 | 1120 | 1225 | 1265 | 1355 | 1405 |
| | 3200 | 1050 | 1135 | 1255 | 1325 | 1350 | 1415 | 1460 |
| | 3600 | 1125 | 1250 | 1305 | 1340 | 1415 | N/A | N/A |

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 | 700-1025 | Standard Unit |
| | Medium | 1030-1305 | Optional Kit |
| | High | 1325-1575 | Optional Kit |

Airflow Performance - Side by Side Duct Configuration for M46 & M62

Blower RPM for M46

SUPPLY

| Mist Eliminator Filter in Intake Hood (5HP) | | | | | | | | |
|---------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 3000 | 925 | 1035 | 1110 | 1140 | 1235 | 1315 | 1350 |
| | 3400 | 1030 | 1120 | 1185 | 1225 | 1310 | 1345 | 1385 |
| | 3800 | 1100 | 1150 | 1240 | 1335 | 1385 | 1420 | 1455 |
| | 4200 | 1165 | 1245 | 1375 | 1435 | 1460 | 1505 | 1550 |
| | 4600 | 1230 | 1315 | 1335 | 1470 | 1525 | 1585 | 1655 |

EXHAUST

| Barometric Hood, 2" Pleated Filters (5HP) | | | | | | | | |
|-------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 3000 | 985 | 1085 | 1155 | 1280 | 1325 | 1370 | 1440 |
| | 3400 | 1060 | 1150 | 1270 | 1320 | 1365 | 1430 | 1480 |
| | 3800 | 1145 | 1265 | 1335 | 1400 | 1450 | 1475 | 1505 |
| | 4200 | 1240 | 1330 | 1375 | 1460 | 1470 | 1515 | 1560 |
| | 4600 | 1305 | 1400 | 1420 | 1485 | 1525 | 1550 | 1650 |

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 Kit |
| | High | 1315-1700 | Optional Kit |

Blower RPM for M62

SUPPLY

| Mist Eliminator Filter in Intake Hood (5HP) | | | | | | | | |
|---------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 4600 | 820 | 910 | 990 | 1020 | 1135 | 1165 | 1225 |
| | 5000 | 885 | 965 | 1040 | 1100 | 1160 | 1225 | 1280 |
| | 5400 | 910 | 1000 | 1095 | 1155 | 1215 | 1275 | N/A |
| | 5800 | 960 | 1060 | 1145 | 1205 | 1265 | 1290 | N/A |
| | 6200 | 1020 | 1110 | 1195 | 1255 | 1275 | N/A | N/A |

EXHAUST

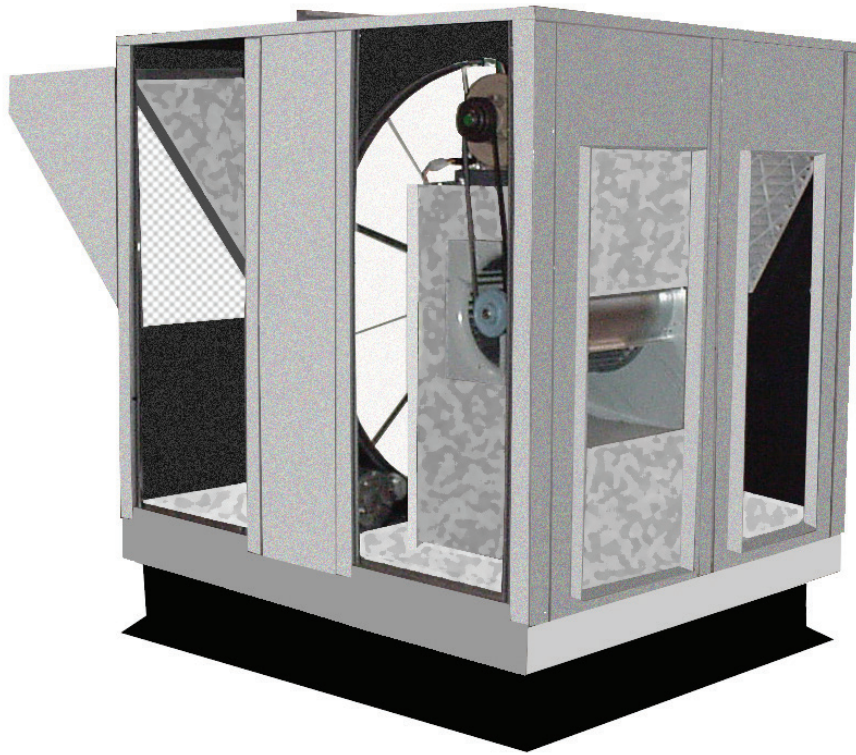
| Barometric Hood, 2" Pleated Filters (5HP) | | | | | | | | |
|-------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 4600 | 875 | 935 | 1000 | 1025 | 1140 | 1175 | 1190 |
| | 5000 | 910 | 975 | 1040 | 1130 | 1190 | 1200 | 1280 |
| | 5400 | 945 | 1015 | 1095 | 1150 | 1230 | 1275 | N/A |
| | 5800 | 990 | 1060 | 1125 | 1175 | 1265 | N/A | N/A |
| | 6200 | 1010 | 1110 | 1195 | 1200 | N/A | N/A | N/A |

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 Kit |
| | High | 1175-1375 | Optional Kit |

Side by Side Discharge Outdoor Units Energy Recovery Ventilators Preliminary Airflow Charts



"S-02" Series
Outdoor Units

Airflow Performance - Side by Side Duct Configuration for S11 & S20

Blower RPM for S11

SUPPLY

| Mist Eliminator Filter in Intake Hood (1.5HP) | | | | | | | | |
|-----------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 300 | N/A | N/A | 1020 | 1205 | 1365 | 1480 | 1590 |
| | 500 | N/A | 1015 | 1200 | 1320 | 1460 | 1565 | 1670 |
| | 700 | 990 | 1190 | 1315 | 1455 | 1560 | 1665 | 1715 |
| | 900 | 1150 | 1310 | 1450 | 1555 | 1660 | 1680 | 1795 |
| | 1100 | 1305 | 1440 | 1550 | 1655 | 1740 | 1815 | 1895 |

EXHAUST

| Barometric Hood, 2" Pleated Filters (1.5HP) | | | | | | | | |
|---------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 300 | N/A | N/A | 1150 | 1285 | 1415 | 1515 | 1640 |
| | 500 | N/A | 1145 | 1275 | 1410 | 1510 | 1545 | 1720 |
| | 700 | 1140 | 1270 | 1405 | 1505 | 1590 | 1715 | 1815 |
| | 900 | 1320 | 1435 | 1585 | 1665 | 1705 | 1810 | 1930 |
| | 1100 | 1495 | 1580 | 1660 | 1755 | 1880 | N/A | N/A |

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 Kit |
| | High | 1750-2200 | Optional Kit |

Blower RPM for S20

SUPPLY

| Mist Eliminator Filter in Intake Hood (2HP) | | | | | | | | |
|---------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 1200 | 1065 | 1285 | 1375 | 1415 | 1495 | 1580 | 1685 |
| | 1400 | 1140 | 1330 | 1410 | 1440 | 1555 | 1660 | 1760 |
| | 1600 | 1290 | 1400 | 1480 | 1545 | 1670 | 1745 | 1835 |
| | 1800 | 1395 | 1470 | 1540 | 1665 | 1735 | 1800 | 1880 |
| | 2000 | 1460 | 1530 | 1650 | 1725 | 1795 | 1870 | 1960 |

EXHAUST

| Barometric Hood, 2" Pleated Filters (2HP) | | | | | | | | |
|-------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 1200 | 1175 | 1290 | 1430 | 1520 | 1680 | 1765 | 1850 |
| | 1400 | 1245 | 1425 | 1515 | 1675 | 1755 | 1830 | 1920 |
| | 1600 | 1400 | 1505 | 1670 | 1750 | 1825 | 1910 | 1980 |
| | 1800 | 1495 | 1660 | 1740 | 1820 | 1900 | 1975 | 2090 |
| | 2000 | 1645 | 1730 | 1815 | 1895 | 1965 | 2080 | 2170 |

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 | 1300-1750 | Optional Kit |
| | High | 1750-2080 | Optional Kit |

Airflow Performance - Side by Side Duct Configuration for S28 & S36

Blower RPM for S28

SUPPLY

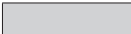


| Mist Eliminator Filter in Intake Hood (3HP) | | | | | | | | |
|---------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 1200 | N/A | 955 | 1070 | 1210 | 1370 | 1465 | 1550 |
| | 1600 | N/A | 1065 | 1205 | 1305 | 1460 | 1540 | 1595 |
| | 2000 | 1060 | 1200 | 1290 | 1445 | 1530 | 1585 | 1680 |
| | 2400 | 1190 | 1335 | 1440 | 1490 | 1575 | 1670 | 1755 |
| | 2800 | 1300 | 1460 | 1550 | 1645 | 1705 | 1750 | 1800 |

EXHAUST

| Barometric Hood, 2" Pleated Filters (3HP) | | | | | | | | |
|-------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 1200 | N/A | N/A | 1025 | 1170 | 1270 | 1355 | 1400 |
| | 1600 | N/A | 1020 | 1155 | 1240 | 1330 | 1390 | 1490 |
| | 2000 | 1015 | 1150 | 1235 | 1325 | 1380 | 1475 | 1590 |
| | 2400 | 1140 | 1285 | 1365 | 1420 | 1510 | 1595 | 1640 |
| | 2800 | 1280 | 1345 | 1455 | 1540 | 1575 | 1670 | 1745 |

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 | 950-1320 | Standard Unit |
|  | Medium | 1325-1565 | Optional Kit |
|  | High | 1570-1880 | Optional Kit |

Blower RPM for S36

SUPPLY




| Mist Eliminator Filter in Intake Hood (3HP) | | | | | | | | |
|---------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 2000 | 815 | 925 | 1020 | 1105 | 1155 | 1255 | 1325 |
| | 2400 | 920 | 1060 | 1130 | 1215 | 1250 | 1355 | 1385 |
| | 2800 | 1010 | 1140 | 1240 | 1285 | 1370 | 1425 | 1470 |
| | 3200 | 1125 | 1235 | 1340 | 1385 | 1455 | 1465 | N/A |
| | 3600 | 1225 | 1375 | 1440 | 1460 | 1500 | N/A | N/A |

EXHAUST

| Barometric Hood, 2" Pleated Filters (3HP) | | | | | | | | |
|-------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 2000 | 755 | 890 | 970 | 1060 | 1125 | 1215 | 1280 |
| | 2400 | 985 | 1035 | 1085 | 1140 | 1240 | 1275 | 1325 |
| | 2800 | 1020 | 1115 | 1175 | 1230 | 1270 | 1335 | 1370 |
| | 3200 | 1105 | 1200 | 1225 | 1285 | 1300 | 1390 | 1430 |
| | 3600 | 1155 | 1265 | 1295 | 1335 | 1385 | N/A | N/A |

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 | 700-1025 | Standard Unit |
|  | Medium | 1030-1305 | Optional Kit |
|  | High | 1325-1575 | Optional Kit |

Airflow Performance - Side by Side Duct Configuration for S46 & S62

Blower RPM for S46

SUPPLY

| Mist Eliminator Filter in Intake Hood (5HP) | | | | | | | | |
|---------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 3000 | 965 | 1085 | 1150 | 1230 | 1295 | 1345 | 1420 |
| | 3400 | 1035 | 1145 | 1250 | 1290 | 1335 | 1415 | 1475 |
| | 3800 | 1120 | 1245 | 1285 | 1315 | 1440 | 1470 | 1535 |
| | 4200 | 1215 | 1305 | 1355 | 1430 | 1465 | 1530 | 1595 |
| | 4600 | 1300 | 1375 | 1450 | 1460 | 1540 | 1590 | 1650 |

EXHAUST

| Barometric Hood, 2" Pleated Filters (5HP) | | | | | | | | |
|-------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 3000 | 1010 | 1105 | 1195 | 1255 | 1300 | 1375 | 1415 |
| | 3400 | 1100 | 1190 | 1250 | 1320 | 1370 | 1410 | 1480 |
| | 3800 | 1185 | 1245 | 1360 | 1410 | 1440 | 1475 | 1540 |
| | 4200 | 1240 | 1355 | 1425 | 1465 | 1530 | 1590 | 1630 |
| | 4600 | 1345 | 1410 | 1485 | 1520 | 1585 | 1650 | 1700 |

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 Kit |
| | High | 1315-1700 | Optional Kit |

Blower RPM for S62

SUPPLY

| Mist Eliminator Filter in Intake Hood (5HP) | | | | | | | | |
|---------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 4600 | 795 | 900 | 1030 | 1075 | 1160 | 1220 | 1255 |
| | 5000 | 855 | 920 | 1070 | 1130 | 1190 | 1250 | 1275 |
| | 5400 | 880 | 950 | 1095 | 1155 | 1245 | 1270 | 1290 |
| | 5800 | 915 | 1035 | 1115 | 1175 | 1255 | 1280 | N/A |
| | 6200 | 985 | 1080 | 1135 | 1225 | 1265 | N/A | N/A |

EXHAUST

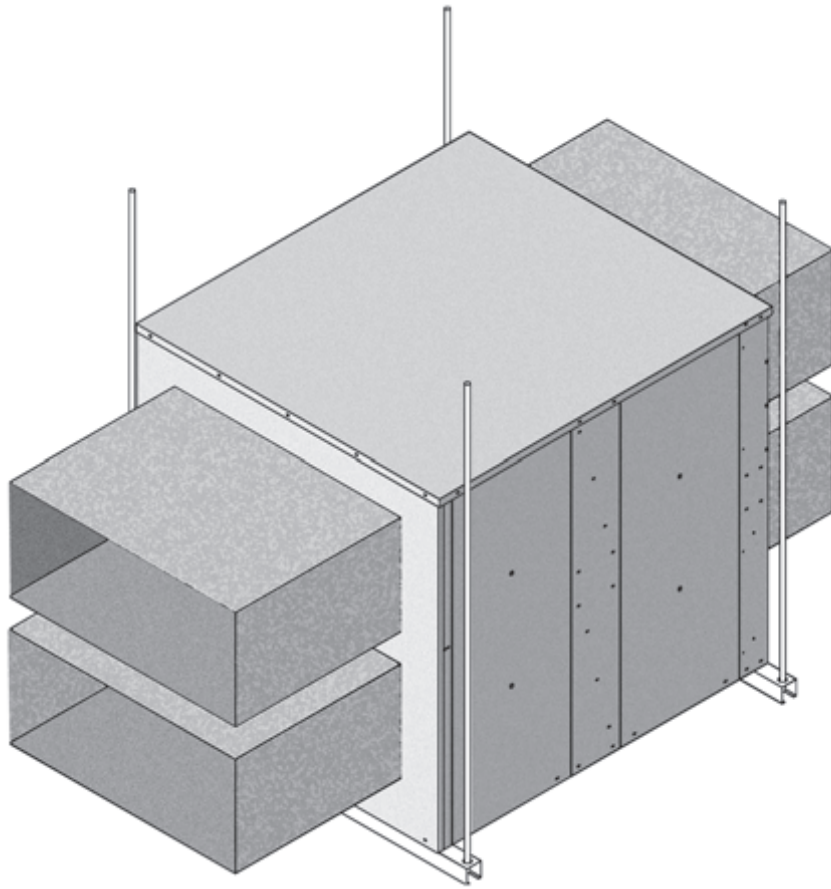
| Barometric Hood, 2" Pleated Filters (5HP) | | | | | | | | |
|-------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 4600 | 705 | 885 | 985 | 1045 | 1100 | 1155 | 1215 |
| | 5000 | 825 | 950 | 1025 | 1095 | 1150 | 1210 | 1245 |
| | 5400 | 875 | 980 | 1080 | 1140 | 1190 | 1240 | 1275 |
| | 5800 | 935 | 995 | 1130 | 1180 | 1230 | N/A | N/A |
| | 6200 | 985 | 1095 | 1165 | N/A | N/A | N/A | N/A |

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 | 700-900 | Standard Unit |
| | Medium | 900-1100 | Optional Kit |
| | High | 1100-1300 | Optional Kit |

Over & Under Discharge Indoor Units Energy Recovery Ventilators Preliminary Airflow Charts



"N-02" Series
Indoor Units

Airflow Performance - Downflow Configuration for N11 & N20

Blower RPM for N11

SUPPLY

| Mist Eliminator Filter in Intake Hood (1.5HP) | | | | | | | | |
|-----------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 300 | N/A | N/A | 980 | 1065 | 1320 | 1400 | 1520 |
| | 500 | N/A | 905 | 1050 | 1215 | 1360 | 1495 | 1595 |
| | 700 | 865 | 1035 | 1210 | 1330 | 1440 | 1535 | 1620 |
| | 900 | 1030 | 1205 | 1325 | 1435 | 1530 | 1615 | 1725 |
| | 1100 | 1200 | 1320 | 1430 | 1525 | 1605 | 1720 | 1800 |

EXHAUST

| Barometric Hood, 2" Pleated Filters (1.5HP) | | | | | | | | |
|---------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 300 | N/A | 815 | 1030 | 1185 | 1305 | 1450 | 1535 |
| | 500 | N/A | 950 | 1075 | 1220 | 1375 | 1490 | 1610 |
| | 700 | 810 | 1070 | 1195 | 1295 | 1445 | 1510 | 1645 |
| | 900 | 995 | 1125 | 1290 | 1405 | 1500 | 1600 | 1690 |
| | 1100 | 1120 | 1280 | 1400 | 1495 | 1595 | 1685 | 1770 |

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 | 1300-1750 | Optional Kit |
| | High | 1750-2200 | Optional Kit |

Blower RPM for N20

SUPPLY

| Mist Eliminator Filter in Intake Hood (2HP) | | | | | | | | |
|---------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 1200 | 990 | 1075 | 1220 | 1380 | 1480 | 1605 | 1720 |
| | 1400 | 1030 | 1165 | 1280 | 1410 | 1520 | 1620 | 1740 |
| | 1600 | 1135 | 1250 | 1340 | 1445 | 1570 | 1665 | 1760 |
| | 1800 | 1240 | 1330 | 1425 | 1550 | 1625 | 1720 | 1785 |
| | 2000 | 1295 | 1405 | 1540 | 1615 | 1705 | 1760 | 1830 |

EXHAUST

| Barometric Hood, 2" Pleated Filters (2HP) | | | | | | | | |
|-------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 1200 | 900 | 1085 | 1235 | 1380 | 1495 | 1585 | 1680 |
| | 1400 | 1050 | 1220 | 1345 | 1490 | 1535 | 1630 | 1715 |
| | 1600 | 1205 | 1335 | 1430 | 1520 | 1625 | 1705 | 1790 |
| | 1800 | 1315 | 1425 | 1510 | 1580 | 1655 | 1775 | 1850 |
| | 2000 | 1390 | 1490 | 1570 | 1650 | 1735 | 1750 | N/A |

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 Kit |
| | High | 1700-2080 | Optional Kit |

Airflow Performance - Downflow Configuration for N28 & N36

Blower RPM for N28

SUPPLY

| Mist Eliminator Filter in Intake Hood (3HP) | | | | | | | | |
|---------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 1200 | N/A | 900 | 1045 | 1135 | 1255 | 1395 | 1410 |
| | 1600 | 880 | 1035 | 1130 | 1245 | 1385 | 1405 | 1450 |
| | 2000 | 1045 | 1145 | 1235 | 1325 | 1400 | 1440 | 1555 |
| | 2400 | 1135 | 1300 | 1375 | 1435 | 1505 | 1550 | 1590 |
| | 2800 | 1295 | 1365 | 1435 | 1515 | 1580 | 1625 | 1695 |

EXHAUST

| Barometric Hood, 2" Pleated Filters (3HP) | | | | | | | | |
|-------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 1200 | N/A | 955 | 1075 | 1185 | 1285 | 1355 | 1495 |
| | 1600 | 945 | 1055 | 1175 | 1265 | 1335 | 1445 | 1635 |
| | 2000 | 1045 | 1170 | 1330 | 1395 | 1440 | 1570 | 1695 |
| | 2400 | 1210 | 1325 | 1435 | 1510 | 1580 | 1620 | 1675 |
| | 2800 | 1315 | 1475 | 1500 | 1595 | 1710 | 1755 | 1790 |

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 | 950-1320 | Standard Unit |
| | Medium | 1325-1565 | Optional Kit |
| | High | 1570-1880 | Optional Kit |

Blower RPM for N36

SUPPLY

| Mist Eliminator Filter in Intake Hood (3HP) | | | | | | | | |
|---------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 2000 | 735 | 860 | 920 | 1005 | 1075 | 1150 | 1220 |
| | 2400 | 850 | 945 | 1030 | 1090 | 1110 | 1215 | 1265 |
| | 2800 | 935 | 1020 | 1080 | 1145 | 1200 | 1255 | 1335 |
| | 3200 | 1015 | 1075 | 1105 | 1195 | 1285 | 1325 | 1380 |
| | 3600 | 1065 | 1125 | 1220 | 1305 | N/A | N/A | N/A |

EXHAUST

| Barometric Hood, 2" Pleated Filters (3HP) | | | | | | | | |
|-------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 2000 | 740 | 855 | 930 | 970 | 1080 | 1155 | 1240 |
| | 2400 | 800 | 925 | 1015 | 1075 | 1145 | 1225 | 1280 |
| | 2800 | 885 | 1010 | 1070 | 1140 | 1235 | 1255 | 1330 |
| | 3200 | 950 | 1065 | 1135 | 1230 | 1290 | 1325 | N/A |
| | 3600 | 1055 | 1130 | 1235 | 1280 | 1310 | N/A | N/A |

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 | 700-1025 | Standard Unit |
| | Medium | 1030-1305 | Optional Kit |
| | High | 1325-1575 | Optional Kit |

Airflow Performance - Downflow Configuration for N46 & N62

Blower RPM for N46

SUPPLY

| Mist Eliminator Filter in Intake Hood (5HP) | | | | | | | | |
|---------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 3000 | 840 | 990 | 1065 | 1135 | 1215 | 1265 | 1335 |
| | 3400 | 875 | 1060 | 1130 | 1205 | 1255 | 1320 | 1385 |
| | 3800 | 1015 | 1120 | 1200 | 1245 | 1315 | 1365 | 1450 |
| | 4200 | 1080 | 1195 | 1240 | 1350 | 1395 | 1445 | 1510 |
| | 4600 | 1120 | 1200 | 1315 | 1380 | 1460 | 1515 | 1560 |

EXHAUST

| Barometric Hood, 2" Pleated Filters (5HP) | | | | | | | | |
|-------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 3000 | 850 | 995 | 1065 | 1135 | 1220 | 1270 | 1335 |
| | 3400 | 925 | 1060 | 1130 | 1225 | 1265 | 1330 | 1375 |
| | 3800 | 1020 | 1120 | 1220 | 1285 | 1325 | 1370 | 1430 |
| | 4200 | 1100 | 1215 | 1280 | 1345 | 1400 | 1435 | 1480 |
| | 4600 | 1150 | 1275 | 1340 | 1415 | 1475 | 1520 | 1565 |

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 Kit |
| | High | 1315-1700 | Optional Kit |

Blower RPM for N62

SUPPLY

| Mist Eliminator Filter in Intake Hood (5HP) | | | | | | | | |
|---------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 4600 | 795 | 900 | 960 | 1010 | 1090 | 1135 | 1165 |
| | 5000 | 835 | 945 | 1000 | 1060 | 1135 | 1155 | 1230 |
| | 5400 | 895 | 985 | 1040 | 1130 | 1155 | 1220 | 1265 |
| | 5800 | 940 | 1025 | 1085 | 1145 | 1225 | 1250 | 1300 |
| | 6200 | 990 | 1070 | 1105 | 1210 | 1245 | 1290 | N/A |

EXHAUST

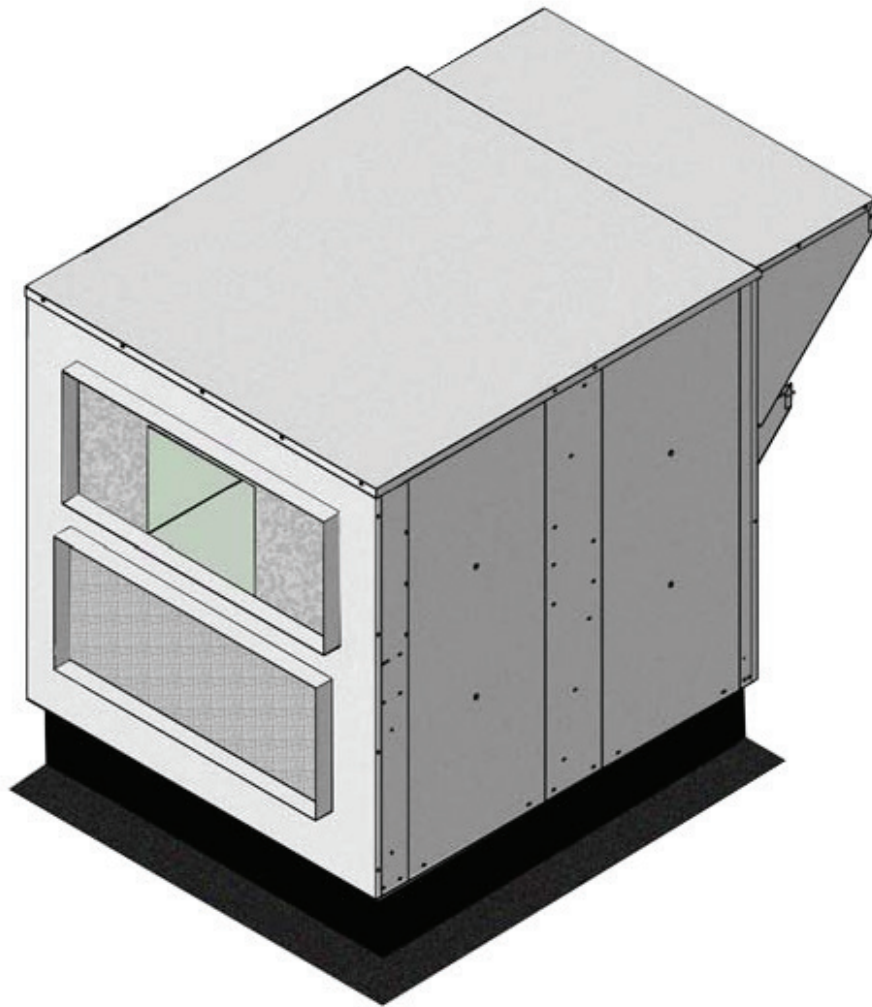
| Barometric Hood, 2" Pleated Filters (5HP) | | | | | | | | |
|-------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 4600 | 780 | 910 | 900 | 1045 | 1085 | 1135 | 1185 |
| | 5000 | 825 | 945 | 1015 | 1075 | 1125 | 1180 | 1230 |
| | 5400 | 890 | 990 | 1065 | 1105 | 1170 | 1220 | 1270 |
| | 5800 | 940 | 1025 | 1085 | 1165 | 1215 | 1250 | 1310 |
| | 6200 | 980 | 1060 | 1150 | 1205 | 1235 | 1305 | N/A |

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 | 700-900 | Standard Unit |
| | Medium | 900-1100 | Optional Kit |
| | High | 1100-1300 | Optional Kit |

Over & Under Discharge For Outdoor Units Energy Recovery Ventilators Preliminary Airflow Charts



"O-02" Series
Outdoor Units

Airflow Performance - Downflow Configuration for O11 & O20

Blower RPM for O11

SUPPLY

| Mist Eliminator Filter in Intake Hood (1.5HP) | | | | | | | | |
|-----------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 300 | N/A | N/A | 1175 | 1350 | 1450 | 1605 | 1730 |
| | 500 | N/A | 1170 | 1340 | 1540 | 1655 | 1725 | 1840 |
| | 700 | 1295 | 1425 | 1600 | 1625 | 1795 | 1960 | 2035 |
| | 900 | 1540 | 1660 | 1720 | 1790 | 2030 | 2110 | 2195 |
| | 1100 | 1785 | 1915 | 2025 | 2185 | N/A | N/A | N/A |

EXHAUST

| Barometric Hood, 2" Pleated Filters (1.5HP) | | | | | | | | |
|---------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 300 | N/A | N/A | 1030 | 1225 | N/A | N/A | N/A |
| | 500 | N/A | 1025 | 1180 | 1265 | 1425 | 1535 | N/A |
| | 700 | 1120 | 1190 | 1340 | 1445 | 1540 | 1645 | 1720 |
| | 900 | 1285 | 1525 | 1500 | 1575 | 1670 | 1785 | 1865 |
| | 1100 | 1570 | 1665 | 1670 | 1775 | 1860 | 1920 | N/A |

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 Kit |
| | High | 1750-2200 | Optional Kit |

Blower RPM for O20

SUPPLY

| Mist Eliminator Filter in Intake Hood (2HP) | | | | | | | | |
|---------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 1200 | 1055 | 1135 | 1295 | 1420 | 1540 | 1650 | 1725 |
| | 1400 | 1140 | 1240 | 1340 | 1490 | 1600 | 1690 | 1795 |
| | 1600 | 1200 | 1330 | 1460 | 1565 | 1645 | 1740 | 1830 |
| | 1800 | 1320 | 1405 | 1525 | 1615 | 1705 | 1785 | 1885 |
| | 2000 | 1415 | 1515 | 1605 | 1690 | 1775 | 1875 | 1960 |

EXHAUST

| Barometric Hood, 2" Pleated Filters (2HP) | | | | | | | | |
|-------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 1200 | 1010 | 1195 | 1350 | 1445 | 1580 | 1685 | 1735 |
| | 1400 | 1125 | 1315 | 1435 | 1545 | 1620 | 1730 | 1800 |
| | 1600 | 1185 | 1370 | 1500 | 1610 | 1695 | 1790 | 1965 |
| | 1800 | 1305 | 1485 | 1600 | 1685 | 1781 | 1955 | 2030 |
| | 2000 | 1410 | 1550 | 1670 | 1765 | 1855 | N/A | N/A |

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 Kit |
| | High | 1700-2080 | Optional Kit |

Airflow Performance - Downflow Configuration for O28 & O36

Blower RPM for O28

SUPPLY

| Mist Eliminator Filter in Intake Hood (3HP) | | | | | | | | |
|---------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 1200 | N/A | 790 | 960 | 1110 | 1210 | 1315 | 1380 |
| | 1600 | 750 | 900 | 1005 | 1145 | 1230 | 1365 | 1410 |
| | 2000 | 900 | 1005 | 1105 | 1210 | 1275 | 1400 | 1450 |
| | 2400 | 1005 | 1125 | 1210 | 1275 | 1365 | 1450 | 1500 |
| | 2800 | 1125 | 1230 | 1315 | 1380 | 1450 | 1535 | 1600 |

EXHAUST

| Barometric Hood, 2" Pleated Filters (3HP) | | | | | | | | |
|-------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 1200 | 750 | 885 | 1015 | 1145 | 1260 | 1350 | 1485 |
| | 1600 | 870 | 1015 | 1125 | 1215 | 1325 | 1410 | 1500 |
| | 2000 | 1015 | 1145 | 1240 | 1345 | 1410 | 1485 | 1560 |
| | 2400 | 1125 | 1250 | 1345 | 1430 | 1500 | 1575 | 1630 |
| | 2800 | 1250 | 1410 | 1485 | 1520 | 1630 | 1650 | 1675 |

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 Kit |
| | High | 1311-1708 | Optional Kit |

Blower RPM for O36

SUPPLY

| Mist Eliminator Filter in Intake Hood (3HP) | | | | | | | | |
|---------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 2000 | 725 | 825 | 900 | 1000 | 1070 | 1180 | 1250 |
| | 2400 | 800 | 900 | 1000 | 1070 | 1160 | 1250 | 1275 |
| | 2800 | 900 | 1000 | 1070 | 1160 | 1250 | 1275 | 1340 |
| | 3200 | 1000 | 1070 | 1160 | 1250 | 1275 | 1340 | 1400 |
| | 3600 | 1055 | 1180 | 1250 | 1300 | 1360 | N/A | N/A |

EXHAUST

| Barometric Hood, 2" Pleated Filters (3HP) | | | | | | | | |
|-------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 2000 | 750 | 865 | 950 | 1030 | 1100 | 1200 | 1265 |
| | 2400 | 820 | 950 | 1035 | 1100 | 1200 | 1265 | 1300 |
| | 2800 | 925 | 1035 | 1150 | 1200 | 1265 | 1315 | 1350 |
| | 3200 | 1035 | 1160 | 1215 | 1265 | 1325 | 1350 | 1390 |
| | 3600 | 1100 | 1215 | 1300 | 1350 | 1390 | N/A | N/A |

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 Kit |
| | High | 1215-1425 | Optional Kit |

Airflow Performance - Downflow Configuration for O46 & O62

Blower RPM for O46

SUPPLY

| Mist Eliminator Filter in Intake Hood (5HP) | | | | | | | | |
|---------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 3000 | 900 | 1030 | 1100 | 1165 | 1240 | 1285 | 1350 |
| | 3400 | 975 | 1085 | 1175 | 1240 | 1290 | 1350 | 1400 |
| | 3800 | 1070 | 1175 | 1240 | 1290 | 1350 | 1400 | 1465 |
| | 4200 | 1165 | 1240 | 1320 | 1350 | 1430 | 1465 | 1515 |
| | 4600 | 1240 | 1320 | 1375 | 1430 | 1500 | 1515 | 1580 |

EXHAUST

| Barometric Hood, 2" Pleated Filters (5HP) | | | | | | | | |
|-------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 3000 | 955 | 1100 | 1160 | 1245 | 1280 | 1360 | 1425 |
| | 3400 | 1055 | 1185 | 1245 | 1300 | 1375 | 1425 | 1480 |
| | 3800 | 1160 | 1300 | 1360 | 1400 | 1425 | 1530 | 1585 |
| | 4200 | 1245 | 1375 | 1450 | 1480 | 1500 | 1585 | 1650 |
| | 4600 | 1360 | 1450 | 1500 | 1585 | 1600 | 1650 | 1700 |

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 Kit |
| | High | 1315-1700 | Optional Kit |

Blower RPM for O62

SUPPLY

| Mist Eliminator Filter in Intake Hood (5HP) | | | | | | | | |
|---------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 4600 | 815 | 900 | 975 | 1045 | 1085 | 1125 | 1175 |
| | 5000 | 880 | 940 | 1015 | 1060 | 1135 | 1175 | 1215 |
| | 5400 | 915 | 975 | 1045 | 1125 | 1150 | 1195 | 1250 |
| | 5800 | 975 | 1045 | 1085 | 1175 | 1250 | 1260 | N/A |
| | 6200 | 1000 | 1075 | 1165 | 1200 | N/A | N/A | N/A |

EXHAUST

| Barometric Hood, 2" Pleated Filters (5HP) | | | | | | | | |
|-------------------------------------------|------|-------------------------------------|------|------|------|------|------|------|
| | | External Static Pressure (in water) | | | | | | |
| | | 0 | 0.25 | 0.5 | 0.75 | 1 | 1.25 | 1.5 |
| CFM | 4600 | 825 | 915 | 1000 | 1025 | 1100 | 1140 | 1170 |
| | 5000 | 890 | 975 | 1025 | 1100 | 1140 | 1170 | 1240 |
| | 5400 | 925 | 1000 | 1085 | 1140 | 1170 | 1240 | 1280 |
| | 5800 | 975 | 1025 | 1140 | 1170 | 1240 | N/A | N/A |
| | 6200 | 1025 | 1120 | 1170 | N/A | N/A | N/A | N/A |

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 Kit |
| | High | 1175-1375 | Optional Kit |

This Page Intentionally Left Blank

This Page Intentionally Left Blank

This Page Intentionally Left Blank

Prepared for the guidance of architects, consulting engineers, and mechanical contractors.

General – Furnish and install _____ mechanical cooling system, complete with a Stand Alone Energy Recovery Ventilator (ERV).

Approvals – The Stand Alone Energy Recovery Ventilator will contain an energy recovery component rated in accordance with AHRI Standard 1030-2000 with ratings certified by AHRI.

Cabinet – ERV shall be designed to attach directly to the air conditioning (rooftop, upflow, horizontal) unit. It shall be galvanized material with a powdered enamel paint finish electrostatically bonded to the metal. Cabinet panels where conditioned air is handled shall be fully insulated to prevent sweating and minimize sound. Openings shall be provided for power connections. Lifting devices will be provided for rigging. Test ports shall be provided so airflow can be measured across the energy recovery wheel.

Intake Air Blower (belt drive) – ERV shall contain a centrifugal blower. It shall have ball bearings and adjustable belt drive. Motor mount base shall permit ease of motor changeover and belt tension adjustment.

Exhaust Air Blower (belt drive) – ERV shall contain a centrifugal blower. It shall have ball bearings and adjustable belt drive. Motor mount base shall permit ease of motor changeover and belt tension adjustment.

Energy Recovery Wheel – The energy recovery device shall be a rotary heat exchanger per AHRI 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 standard coil cleaning solution. On ERV's the wheel will be provided with removable segments for cleaning and maintenance. All diameter and perimeter seals shall be provided. The energy recovery cassette shall be Underwriters Laboratories Recognized Component for electrical and fire safety.

Balancing Dampers – These dampers will be mounted inside the rooftop air conditioning unit to adjust for the amount of exhaust air on packaged units (ordered separately) and field provide and installed in duct work for units that stand alone.

Barometric Relief Dampers – Barometric relief dampers will be provided in the outdoor units within exhaust air hood to prevent air infiltration when the ERV is de-energized.

ERV Support – All outdoor ERV's will be provided with support legs attached to the cabinet to support for the intake and exhaust end of the rooftop unit. Horizontal ERV's will be provided with support brackets for hanging.

Filters – All outdoor ERV's shall be provided with mist eliminator type filters in the intake air hood.

Power Connection – The ERV shall be provided with a single point power connection for high voltage.

Options:

Optional ERV Equipment Support – Furnish and install the optional equipment support for the intake and exhaust end of the outdoor unit.

Optional Roof Mounting Frame – Furnish and install the optional roof mounting frame to maintain proper height above the roof.

Optional Low Ambient Kit – Furnish and install the optional low ambient kit to prevent frost formation on the energy recovery wheel.

Optional Motorized Intake Air Damper – Furnish and install the optional motorized intake air damper.

Optional Stop-Start-Jog – On units wanting economizer type control, it is recommended to install the optional stop-start-jog controls.