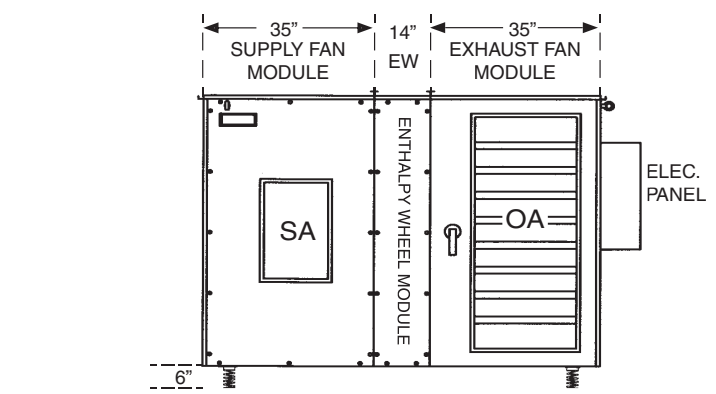
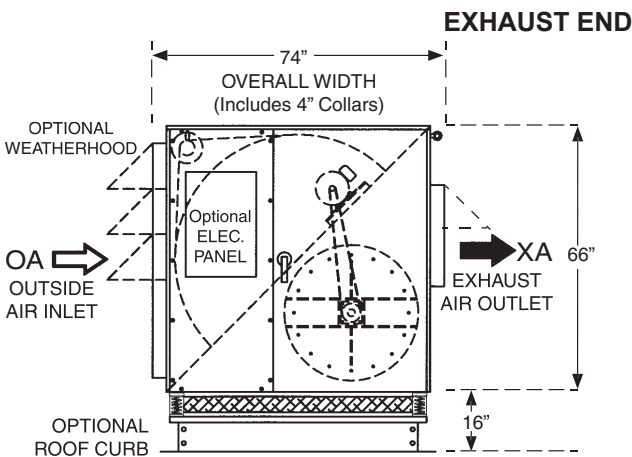


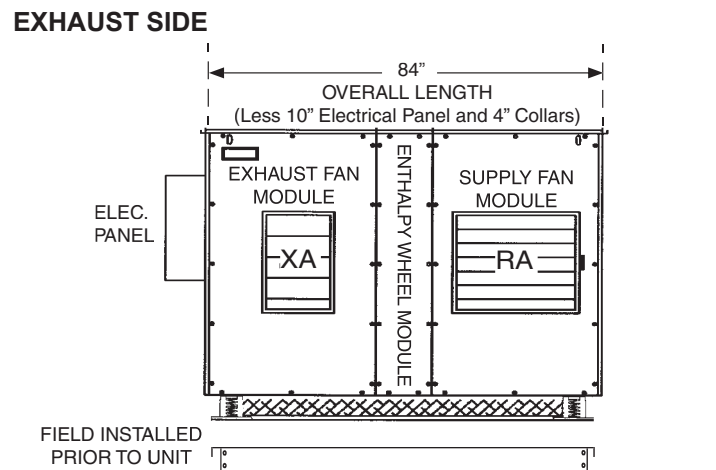
SUPPLY END



SUPPLY SIDE



EXHAUST END



EXHAUST SIDE

5855-ERV

4,750 to 6,000 CFM

March, 2003

SUPPLY FAN PERFORMANCE AND MOTOR SELECTION GUIDE

(Intersect CFM with external static pressure to determine fan h.p.)

| CFM | OUTLET VEL. FPM | | 0.5 ESP | 1.0 ESP | 1.5 ESP | 2.0 ESP | 2.5 ESP | 3.0 ESP | 3.5 ESP |
|------|-----------------|-----|---------|---------|---------|---------|---------|---------|---------|
| 4750 | 2066 | RPM | 1341 | 1434 | 1523 | 1611 | 1695 | 1778 | 1859 |
| | | BHP | 2.1 | 2.53 | 2.96 | 3.42 | 3.89 | 4.39 | 4.91 |
| | | hp | 3 | 3 | 5 | 5 | 5 | 7.5 | 7.5 |
| 5000 | 2175 | RPM | 1385 | 1473 | 1560 | 1644 | 1726 | 1806 | 1884 |
| | | BHP | 2.32 | 2.76 | 3.22 | 3.69 | 4.18 | 4.69 | 5.21 |
| | | hp | 3 | 5 | 5 | 5 | 5 | 7.5 | 7.5 |
| 5500 | 2392 | RPM | 1494 | 1575 | 1655 | 1733 | 1809 | 1884 | N/A |
| | | BHP | 2.92 | 3.4 | 3.89 | 4.39 | 4.91 | 5.45 | |
| | | hp | 5 | 5 | 5 | 7.5 | 7.5 | 7.5 | |
| 5750 | 2501 | RPM | 1542 | 1620 | 1697 | 1772 | 1846 | 1918 | N/A |
| | | BHP | 3.22 | 3.71 | 4.21 | 4.73 | 5.27 | 5.82 | |
| | | hp | 5 | 5 | 5 | 7.5 | 7.5 | 7.5 | |
| 6000 | 2610 | RPM | 1592 | 1667 | 1742 | 1814 | 1885 | N/A | N/A |
| | | BHP | 3.54 | 4.05 | 4.58 | 5.11 | 5.66 | | |
| | | hp | 5 | 5 | 7.5 | 7.5 | 7.5 | | |

EXHAUST FAN PERFORMANCE AND MOTOR SELECTION GUIDE

(Intersect CFM with external static pressure to determine fan h.p.)

| CFM | OUTLET VEL. FPM | | 0.5 ESP | 1.0 ESP | 1.5 ESP | 2.0 ESP | 2.5 ESP | 3.0 ESP | 3.5 ESP |
|------|-----------------|-----|---------|---------|---------|---------|---------|---------|---------|
| 4750 | 2066 | RPM | 1309 | 1403 | 1493 | 1581 | 1667 | 1750 | 1831 |
| | | BHP | 1.96 | 2.38 | 2.81 | 3.26 | 3.73 | 4.22 | 4.73 |
| | | hp | 3 | 3 | 5 | 5 | 5 | 5 | 7.5 |
| 5000 | 2175 | RPM | 1356 | 1445 | 1533 | 1617 | 1700 | 1780 | 1859 |
| | | BHP | 2.19 | 2.62 | 3.06 | 3.53 | 4.02 | 4.52 | 5.04 |
| | | hp | 3 | 5 | 5 | 5 | 5 | 7.5 | 7.5 |
| 5500 | 2392 | RPM | 1466 | 1548 | 1628 | 1707 | 1783 | 1859 | 1932 |
| | | BHP | 2.76 | 3.24 | 3.72 | 4.22 | 4.73 | 5.27 | 5.81 |
| | | hp | 5 | 5 | 5 | 5 | 7.5 | 7.5 | 7.5 |
| 5750 | 2501 | RPM | 1514 | 1592 | 1670 | 1745 | 1820 | 1892 | N/A |
| | | BHP | 3.04 | 3.53 | 4.03 | 4.54 | 5.08 | 5.62 | |
| | | hp | 5 | 5 | 5 | 7.5 | 7.5 | 7.5 | |
| 6000 | 2610 | RPM | 1562 | 1637 | 1712 | 1785 | 1857 | 1928 | N/A |
| | | BHP | 3.34 | 3.84 | 4.36 | 4.89 | 5.44 | 6 | |
| | | hp | 5 | 5 | 5 | 7.5 | 7.5 | 7.5 | |

FAN MOTOR AMP DRAW CHART

| hp | 208 | 240 | 480 |
|-------|------|------|-----|
| 3 | 8.6 | 8.4 | 4.2 |
| 5 | 14.0 | 12.7 | 6.4 |
| 7-1/2 | 21.0 | 19.0 | 9.5 |

WHEEL MOTOR AMP DRAW CHART

| | 208 | 240 | 480 |
|--------|-----|-----|-----|
| 1/4 hp | 1.0 | 1.0 | 0.5 |

ACCESSORIES AMP DRAW CHART

| | 208 | 240 | 480 |
|--|-------|-------|------|
| Enthalpy Wheel Rotation Detection | 0.20 | 0.20 | 0.10 |
| Damper Motor (ea.) | 0.75 | 0.75 | 0.50 |
| Radiant Defrost Heater Pkg. (ea.) | 4.57 | 3.95 | 1.97 |
| Temperature Sensor (ea.) | 0.50 | 0.50 | 0.25 |
| Lights and Receptical | 12.00 | 12.00 | 6.00 |
| Variable Frequency Drive for Fan (ea.) | 0.50 | 0.50 | 0.25 |

Performance numbers are based on optimum conditions. Consult factory for precise performance.

Berner Energy Recovery Incorporated

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