

| PHYSICAL DIMENSIONS | | | | |
|---------------------|-----------------|-----------------|-----------------|-----------------|
| DIM | AV-12A | AV-16A | AV-20A | AV-24A |
| A | 15-13/16 401 | 19-13/16 503 | 23-13/16 605 | 27-7/8 707 |
| B | 19-7/16 494 | 23-1/2 596 | 27-1/2 698 | 31-1/2 800 |
| C | 4-3/16 107 | 4-3/16 107 | 4-3/16 107 | 4-3/16 107 |
| D | 7-15/16 201 | 7-9/16 192 | 7-3/16 183 | 6-7/8 174 |
| E | 23-5/8 600 | 23-5/8 600 | 23-5/8 600 | 23-5/8 600 |
| F | 18-3/16 462 | 22-3/16 564 | 26-3/16 665 | 30-3/16 766 |
| G | 9/16 14.3 | 9/16 14.3 | 9/16 14.3 | 9/16 14.3 |
| H | 23-7/8 606.5 | 27-7/8 708.5 | 31-7/8 809.5 | 35-7/8 911.5 |
| I | 1-9/16 39 | 1-9/16 39 | 1-9/16 39 | 1-9/16 39 |
| J | 5/8 16 | 5/8 16 | 5/8 16 | 5/8 16 |
| K | 11-13/16 300 | 11-13/16 300 | 15-11/16 398 | 15-11/16 398 |

VERTICAL THROW MODEL SPECS.

| BASE MODEL | AIR DELIVERY CFM (Ft ³ /Min.) | APPROX. AIR VELOCITY (Ft/Min.) | MAX. MOUNTING HEIGHT (Ft) | SPREAD (Ft) | NET WEIGHT (Lbs) | SHIPPING WEIGHT (Lbs) |
|------------|--|--------------------------------|---------------------------|-------------|------------------|-----------------------|
| AV-12A-A_ | 1150 | 1441 | 12 | 10 | 121 | 165 |
| AV-12A-B_ | 1160 | 1454 | 12 | 10 | 128 | 172 |
| AV-12A-C1 | 1030 | 1291 | 12 | 10 | 133 | 177 |
| AV-16A-A_ | 1840 | 1301 | 16 | 14 | 151 | 195 |
| AV-16A-B_ | 1780 | 1259 | 16 | 14 | 158 | 202 |
| AV-16A-C1 | 1840 | 1301 | 16 | 14 | 170 | 214 |
| AV-20A-A_ | 2930 | 1499 | 18 | 16 | 180 | 224 |
| AV-20A-B_ | 2700 | 1382 | 18 | 16 | 190 | 234 |
| AV-20A-C1 | 3000 | 1535 | 18 | 16 | 215 | 259 |
| AV-24A-A_ | 3890 | 1288 | 20 | 18 | 209 | 269 |
| AV-24A-B_ | 3640 | 1205 | 20 | 18 | 232 | 292 |
| AV-24A-C1 | 3490 | 1115 | 20 | 18 | 278 | 338 |

AV MODEL CODING

AV - 12 A - A 1 A 1 - A 1 - 1 A

| FAN | |
|-----|-----|
| 12" | 12A |
| 16" | 16A |
| 20" | 20A |
| 24" | 24A |

| FINNED TUBING | | | | | |
|---------------|----------------|------|----------|-------|------|
| TUBING | WALL THICKNESS | ROWS | FIN/INCH | MAT'L | TYPE |
| 5/8" | 0.065" | 3 | 10 | AL | TW A |
| 1" | 0.083" | 2 | 9 | AL | EX B |
| 1" | 0.135" | 2 | 5 | AL | EX C |

| TUBE SIDE PASSES | |
|------------------|---|
| 1-PASS | 1 |
| 3-PASS | 3 |
| 5-PASS | 5 |
| 7-PASS | 7 |

| CONNECTIONS | |
|-------------------------|---|
| 1 1/2" NPT MALE SCH. 40 | A |
| 1 1/2" 300# RF FLANGE | B |
| 2" NPT MALE SCH. 80 | C |
| 2" 300# RF FLANGE | D |

| EXCHANGER COATINGS | |
|-------------------------------|---|
| HEAT RESISTANT ALUMINUM PAINT | 1 |
| HERESITE® PHENOLIC COATING | 2 |

| MOTOR ELECTRICAL SPECS. | | | |
|-------------------------|-------|-------|-------|
| | VOLTS | PHASE | HERTZ |
| A | 115 | 1 | 60 |
| B | 208 | 1 | 60 |
| C | 208 | 3 | 60 |
| D | 230 | 1 | 60 |
| E | 230 | 3 | 60 |
| F | 460 | 1 | 60 |
| G | 460 | 3 | 60 |
| H | 575 | 3 | 60 |
| I | 220 | 1 | 50 |
| J | 380 | 3 | 50 |
| K | 440 | 3 | 50 |

| MOTOR ENCLOSURE | |
|-----------------|----------------------------|
| 1 | TOTALLY ENCLOSED |
| 2 | X-PROOF, GROUPS C,D, E,F&G |

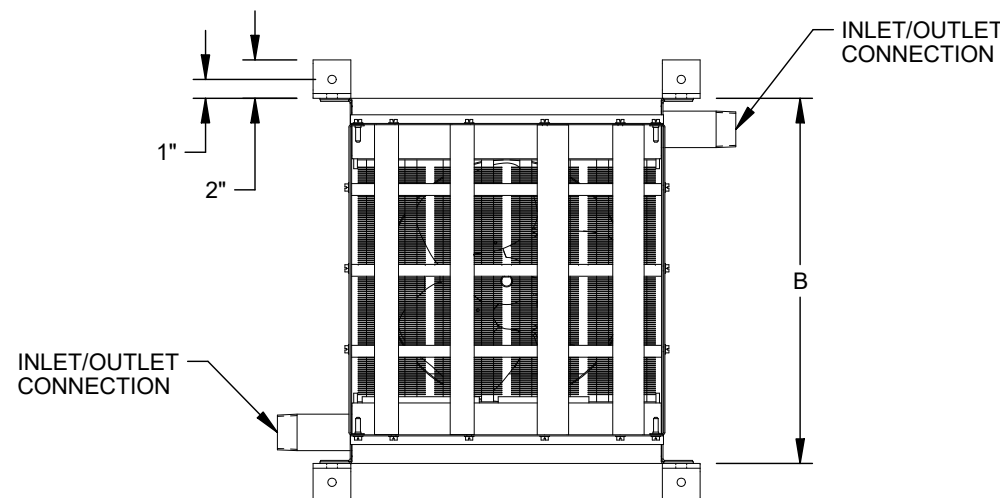
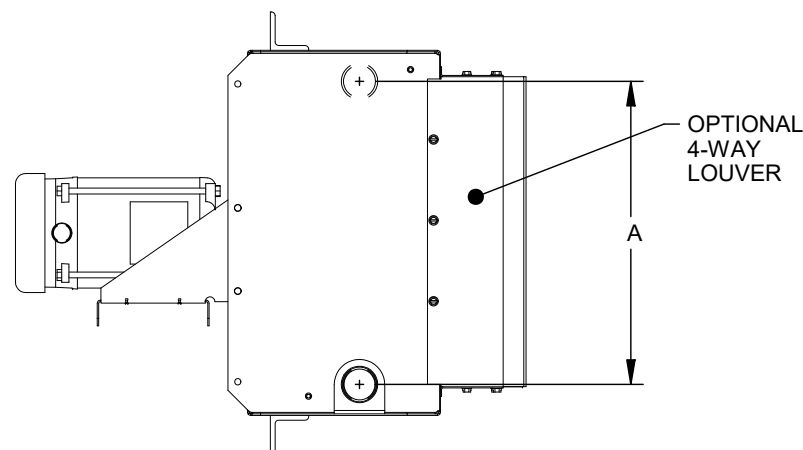
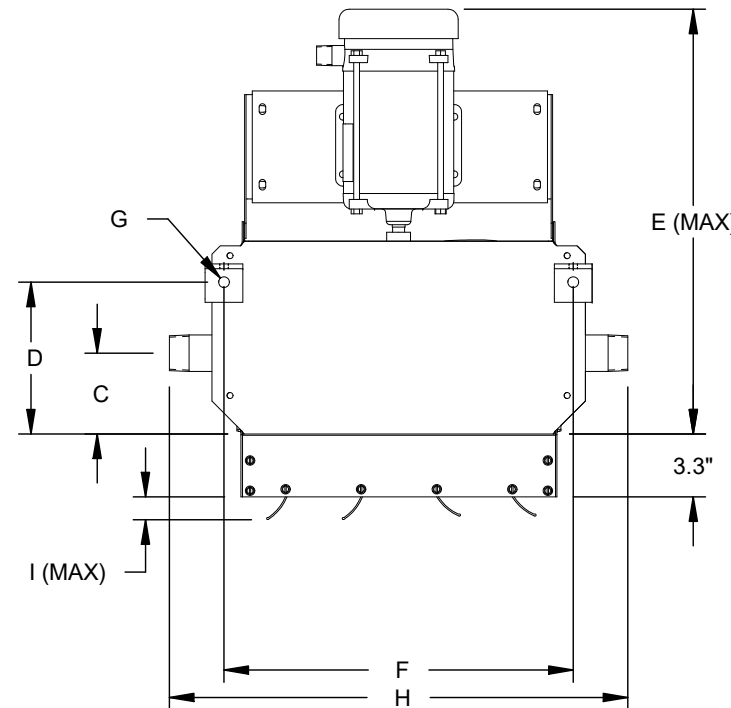
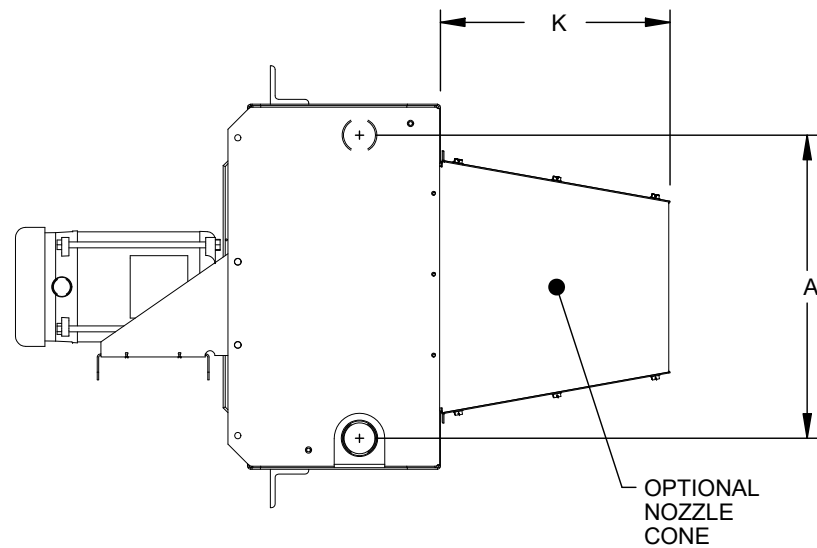
| DISCHARGE TYPE | |
|----------------|---------------|
| 1 | 2-WAY LOUVERS |
| 2 | NOZZLE |
| 3 | 4-WAY LOUVERS |

| CABINET MATERIAL | |
|------------------|--|
| A | EPOXY POWDER COATED CARBON STEEL |
| B | HERESITE® PHENOLIC COATED CARBON STEEL |

- NOTES:
- HERESITE® COATED EXCHANGERS & CABINETS REQUIRE 6 TO 10 WEEKS TO SHIP.
 - LOUVERS AND FAN BLADES ARE ALSO HERESITE® COATED.
 - CONTACT FACTORY FOR LEAD TIMES
 - MOTOR DESIGNED TO BE USED AT RATED VOLTAGE WITH TOLERANCES OF ±5%
 - MOTOR MAY BE MARKED 230 VOLTS, BUT IS SUITABLE FOR 208V OPERATION.
 - ONLY AVAILABLE IN SINGLE PASS.
 - SUITABLE FOR CLASS I & II, DIVISIONS 1 & 2

NOTES:

- MAX. OPERATING PRESS.: 450 PSI
- MAX. OPERATING TEMP.: 650°F
- FLUID CONNECTIONS: 1 1/2" NPT MALE SCH. 40, 1 1/2" 300# RF FLANGES, 2" NPT MALE SCH. 80, OR 2" 300# RF FLANGES
- MATERIALS:
 - CABINET: 14 GA EPOXY POWDER COATED RUFFNECK GREEN
 - CORE:
 - Ø5/8" O.D. x 0.065" W.T. STEEL TUBE w/ TENSION WOUND ALUMINUM FINES @ 10 FINES PER INCH.
 - Ø1" O.D. x 0.083" W.T. STEEL TUBE w/ EXTRUDED ALUMINUM FINES @ 9 FINES PER INCH.
 - Ø1" O.D. x 0.135" W.T. STEEL TUBE w/ EXTRUDED ALUMINUM FINES @ 5 FINES PER INCH.
- MOUNTING: USE 3/8" THREADED ROD FOR MOUNTING. (THREADED ROD NOT SUPPLIED) LEAVE AT LEAST 20" CLEARANCE BETWEEN THE REAR OF THE MOTOR TO THE NEAREST OBSTRUCTION.



| | | | |
|--|---------------------------------------|----------------------------------|------------------|
| 1 | REVISED WEIGHTS, ADDED 2" CONNECTIONS | 20 DEC 2010 | JH |
| REV. | REVISION DESCRIPTION | DATE | BY |
| TITLE: APPROVAL DATA SHEET ADVANCED VERTICAL HEATER | | | |
| DWG NO.: 50963 | SHEET: | TOLERANCE UNLESS NOTED OTHERWISE | |
| SYTLINE NO.: N/A | | ± 1/2" ANGULAR | ± 0.005" DECIMAL |
| SCALE: NTS | | ± 1/16" FRACTIONAL | ± 1 mm METRIC |
| DRN BY: nsanchez | 11 Jan 2007 | | |
| CHK'D BY: | | | |
| APPD. BY: | | | |

