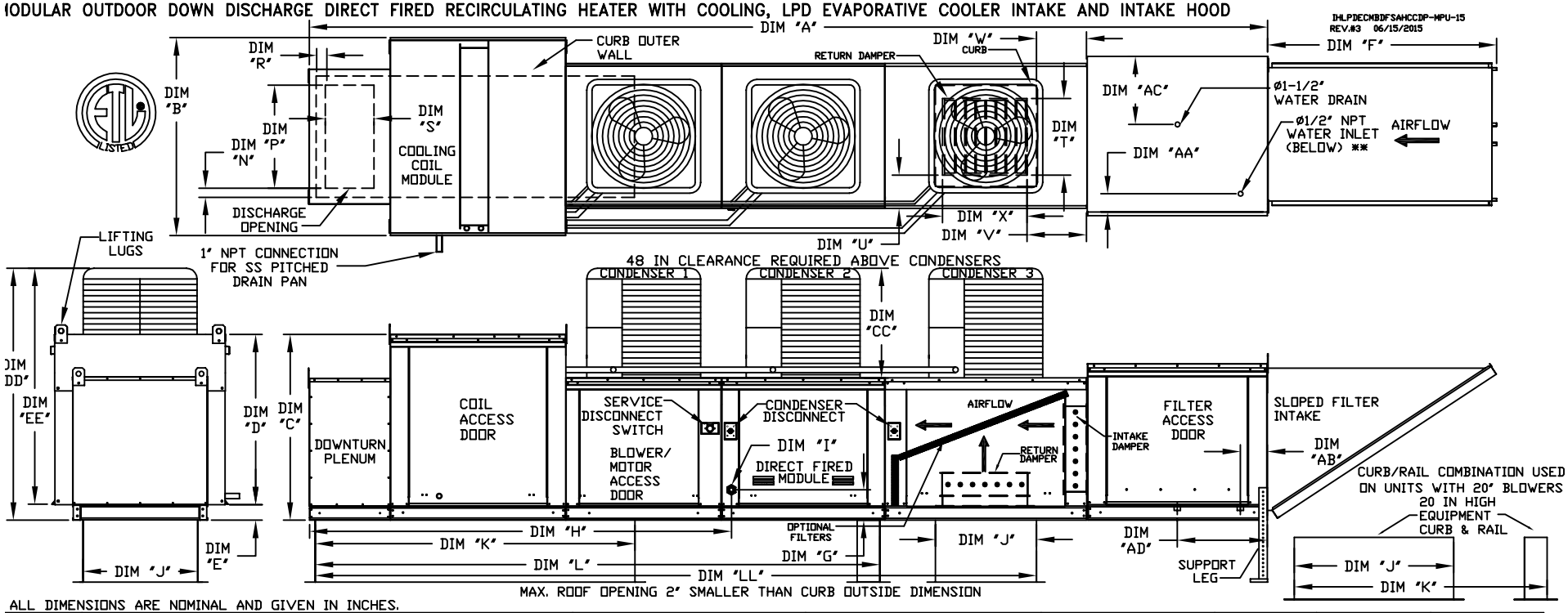
# MODULAR OUTDOOR DOWN DISCHARGE DIRECT FIRED RECIRCULATING HEATER WITH COOLING, LPD EVAPORATIVE COOLER INTAKE AND INTAKE HOOD

IHLPDECMBDFSAHCCDP-MPU-15
REV.#3 06/15/2015




ALL DIMENSIONS ARE NOMINAL AND GIVEN IN INCHES.

| | UNIT DIMENSIONS | | | | | | | | CURB/RAIL | | | | DISCHARGE OPENING | | | | RETURN DAMPER OPENING | | | | | WATER INLET | | DRAIN OPENING | | FILTER SIZE & QTY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODEL | A | B | C | D | E | F | G | H | J | K | L | LL | N | P | R | S | T | U | V | W | X | AA | AB | AC | AD | |
| D.500-G18 | 231-5/8 | 54-3/8 | 56-3/8 | 51-1/8 | 5-1/4 | 76-3/8 | 9-1/2 | 114-7/16 | 35 | 84 | 150-5/8 | 190-1/16 | 6-5/16 | 22-3/8 | 1-1/2 | 18 | 28 | 8 | 7 | 4-1/2 | 30 | 4-1/2 | 5-3/4 | 23-1/2 | 17-1/2 | 16"x20"x2" (10) |
| D.750-G18 | 231-5/8 | 54-3/8 | 56-3/8 | 51-1/8 | 5-1/4 | 76-3/8 | 9-1/2 | 114-7/16 | 35 | 84 | 150-5/8 | 190-1/16 | 6-5/16 | 22-3/8 | 1-1/2 | 18 | 28 | 8 | 7 | 4-1/2 | 30 | 4-1/2 | 5-3/4 | 23-1/2 | 17-1/2 | 16"x20"x2" (10) |
| D.1000-G18 | 231-5/8 | 54-3/8 | 56-3/8 | 51-1/8 | 5-1/4 | 76-3/8 | 9-1/2 | 114-7/16 | 35 | 84 | 150-5/8 | 190-1/16 | 6-5/16 | 22-3/8 | 1-1/2 | 18 | 28 | 8 | 7 | 4-1/2 | 30 | 4-1/2 | 5-3/4 | 23-1/2 | 17-1/2 | 16"x20"x2" (10) |
| D.1000-920 | 292-7/8 | 60-7/16 | 64-3/8 | 59-1/8 | 5-1/4 | 71-3/8 | 13-9/16 | 151 | 42 | 115-3/16 | 199-7/8 | 247-7/8 | 5-1/4 | 31-1/2 | 1-13/16 | 23-1/2 | 33 | 10 | 11 | 8 | 36 | 4-1/2 | 5-3/4 | 28-7/8 | 17-1/2 | 20"x25"x2" (8) |
| D.1500-920 | 292-7/8 | 60-7/16 | 64-3/8 | 59-1/8 | 5-1/4 | 71-3/8 | 13-9/16 | 151 | 42 | 115-3/16 | 199-7/8 | 247-7/8 | 5-1/4 | 31-1/2 | 1-13/16 | 23-1/2 | 33 | 10 | 11 | 8 | 36 | 4-1/2 | 5-3/4 | 28-7/8 | 17-1/2 | 20"x25"x2" (8) |

UNIT INFORMATION

| MODEL | BURNER LENGTH | BTU RANGE (MBH) | | GAS PRESSURE | | GAS CONNECTION | TONNAGE RANGE | |
|---|---|---|---|---|---|---|---|---|
| | | BTU LOW | BTU HIGH | MIN | MAX | "I" (NPT) | MIN | MAX |
| D.500-G18 | 12" | 18 | 550 | 7" WC | 14" WC | 1 | 15 Ton | 15 Ton |
| D.750-G18 | 18" | 27.5 | 825 | 7" WC | 14" WC | 1 | 15 Ton | 15 Ton |
| D.1000-G18 | 24" | 36.6 | 1100 | 7" WC | 14" WC | 1 | 15 Ton | 15 Ton |
| D.1000-920 | 24" | 36.6 | 1100 | 7" WC | 5 PSI | 1-1/4 | 15 Ton | 15 Ton |
| D.1500-920 | 30" | 45.8 | 1375 | 7" WC | 5 PSI | 1-1/4 | 15 Ton | 15 Ton |

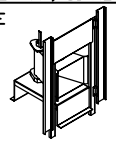
| CELDEK EVAPORATIVE COOLING UNIT | | | |
|---|---|---|---|
| TOT. WEIGHT | MEDIA SIZE & QTY | NOZZLES | MAX. FLOW RATE |
| 2315 LBS | 38"x43"x12" | 35 | 10.15 GPH |
| 2320 LBS | 38"x43"x12" | 35 | 10.15 GPH |
| 2325 LBS | 38"x43"x12" | 35 | 10.15 GPH |
| 3460 LBS | 45"x54"x12" | 42 | 12.6 GPH |
| 3475 LBS | 45"x54"x12" | 42 | 12.6 GPH |

| OPTIONAL MIXING BOX FILTERS |
|---|
| FILTER SIZE & QTY |
| 15"x20"x2" (4), 15"x15"x2" (2) |
| 15"x20"x2" (4), 15"x15"x2" (2) |
| 15"x20"x2" (4), 15"x15"x2" (2) |
| 18"x25"x2" (4), 16"x20"x2" (2) |
| 18"x25"x2" (4), 16"x20"x2" (2) |

*ADD CONDENSING UNIT WEIGHT TO WEIGHT IN TABLE ABOVE
**MAX. EVAP WATER PRESSURE = 50 PSI @ 70 DEG. F

| CONDENSER INFORMATION | | | | | | | |
|---|---|---|---|---|---|---|---|
| MODEL | WEIGHT* | TONNAGE | | | CC | DD | EE |
| | | #1 | #2 | #3 | | | |
| 15 TON-G18 | 591 LBS | 5 TON | 5 TON | 5 TON | 32-13/16 | 76-3/16 | 70-7/8 |
| 15 TON-920 | 591 LBS | 5 TON | 5 TON | 5 TON | 32-13/16 | 97-3/16 | 91-15/16 |

R410A REFRIGERANT



Direct Fired (DF) Profile Plate Assembly

**Direct Fired Profile Plate Specifications:**

**Description:**
Direct fired burners shall have patented (US Patent No: US6629523B2), self-adjusting profile plates designed to ensure proper air velocity and pressure drop across the burner. Profile plates shall allow burners to achieve clean combustion by limiting by-product levels to a maximum of 5ppm of carbon monoxide (CO), and 0.5ppm of nitrogen dioxide (NO2).

**Application:**
Spring-loaded burner profile plates are engineered to automatically react to the momentum of a fresh air stream, without the need for any motors or actuators to mechanically adjust the. With this feature, all DF units are designed for demand control ventilation (DCV) requirements.

**Certifications:**
All profile plate assemblies shall be included in the DF unit's ETL listing and comply with combine safety standards ANSI Z83.4 and CSA 3.7 (non-recirculating DF heaters) and ANSI Z83.18 (recirculating DF heaters).

**General Construction:**
-Profile plates shall be formed from G90 galvanized steel.
-Profile plates shall vary in size per unit.
-Profile plates shall be mounted along the same plane as the discharge of the burner.
-Design shall incorporate properly torqued, permanently mounted spring hinges.
-Spring hinges shall be made from plated steel.