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## PRODUCT SPECIFICATION

### A 1) ER-142 - ER-142-400 or ER-142-310 Air Rotation Units

- FAN - (1) 42"  $\frac{3}{4}$  hp, 115/1 - 14 amps
- Rated at 16,500 cfm
- Noise level not to exceed 12 sones – 64 dba
- Fan blade galvanized G90 steel minimum 16 gauge – epoxy coated
- hub - keyed to fan shaft

### Unit's Construction Consists Of:

- A fully assembled wall housing constructed of 20 gauge
- pre-painted Sierra Color-Klad metal with PVC protective coating
- to prevent scratching during installation
- Vibration isolators mounted between fan and fan wall housing
- Primed and painted 3/16" welded angle iron frame - vibration isolators mounted
- between fan wall housing and welded angle iron mounting frame
- OSHA approved front guard located between the fan and the discharge blades
- OSHA approved back guard located between the fan and the inlet of the fan
- 4-way 20 gauge 360 degree discharge blades
- (11) 42" x 5" front up and down individually pipe locked to reduce blade raw edges
- discharge air blades
- (22) 19" x 5" side up and down individually pipe locked to reduce blade raw edges
- discharge air blades
- (10) 46" x 5" internal left and right individually pipe locked to reduce blade raw edges
- discharge air blades located on the inside of the fan wall assemble
- Fan blades anchored with  $\frac{1}{4}$ " nylon inset nut and bolts to eliminate loosening
- of the blades during operation

### Unit Mounted Control Panel:

- Constructed out of Pre-painted color-Klad metal
- 10" x 16" bolted to wall housing
- 120/1 service switch mounted on wall housing
- Fan's  $\frac{3}{4}$  hp motor wired from motor to unit mounted service switch
- 120/1 to 24 volt transformer
- 15 amp motor fuse for motor over-load protection

### Remote Control Panel:

- 10" x 8" x 4" electrical enclosure
- 24 volt on/off fan toggle switch with operating with 24 volt operating
- light
- Toggle switch energizes unit heater – unit heater cannot run with out
- Distribution fan running
- 7 day 24 hour 24 volt programmable thermostat

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ER-142-400 With (1) 400,000 Btu/hr 80% Unit Heater:

ER-142-310 With (1) 310,000 Btu/hr 93% Unit Heater:

- Primed and painted 3/16" welded angle iron frame - vibration isolators mounted
- between unit heater and welded angle iron mounting frame
- (6) 1/2 " pre-punched holes for mounting – unit's hung with 3/8" all-thread rod
- Unit heater's welded mounting frame shipped loose (attached to main unit) –
- Both the ER-142 and unit heater frame will have (3) 1/2" holes punched in frame
- Frames bolted together in the field
- Bolts supplied by ER mfg

Note - Btu/hr and size of unit may vary depending on the unit heater mfg

ER-142 Cooling Unit:

- A fully assembled wall housing constructed of 20 gauge
- pre-painted Sierra Color-Klad metal with PVC protective coating
- to prevent scratching during installation
- Unit Top inlet for supply roof top unit consisting 48" x 20" opening located on the
- top of the unit
- (1) 48" x 22" back panel to isolate discharge air from roof top unit housing
- constructed of 20 gauge pre-painted Sierra Color-Klad metal with PVC protective
- coating to prevent scratching during installation
- (1) 48" x 14" deflector panel to deflect roof top supply air into ER-142 unit constructed
- of 20 gauge pre-painted Sierra Color-Klad metal with PVC protective coating to
- prevent scratching during installation