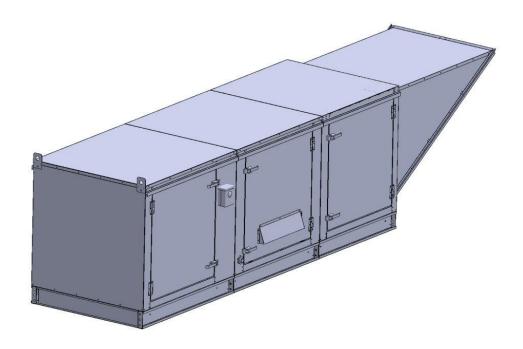


Gas-Fired Tempered Make-Up Air Unit / EVAP

Model:

TK5-EVAP-1PH-FF

1-Phase, 208V, 10.00 HP, Belt driven with Motorized Damper and 25" Blower. MAX 14000 CFM's



Tel: (440) 365-4567

Fax: (440) 365-2100

www.naksinc.com







TK5-2000 Direct Fired EVAP (2695 lbs.)

Supply Motor:

Model DTP0104, 10.000 HP, 3 Phase, 208 V, 60Hz, 46.7 FLA, ODP, Premium (E-Plus3) Eff.

Supply Motor Pulleys:

Part Type	<u>Qty</u>	Browning #	Turns Out
Belt	2	BX103	
Blower Pulley	1	2B5V136	
Bushing	1	B-2 3/16	
Motor Pulley	1	2VP60 x 1-3/8	2.5

Burner:

Min Output BTU: 73,333 BTU/Hr Max Output BTU: 2,200,000 BTU/Hr

Size: 48" long Gas Type: Natural

Supply Performance:

Volume: 14000 cfm Volume Range: 10000-14000 cfm

RPM: 682 TS: 4464 ft/min SP: 1.133" w.g.

0.500" Ext. + 0.597" Int. + 0.036" Opt.

BHP: 9.258

Heating Schedule:

Altitude: 0'

Winter Entering Air Dry Bulb Temp: 0°F

Temp Rise: 100°F Output BTU: 1512000 Input BTU: 1643478

BTUs BASED OFF STANDARD AIR DENSITY

Cooling Schedule:

Intake Entering Dry Bulb Temperature: 90°F Intake Entering Wet Bulb Temperature: 70°F Intake Entering Relative Humidity: 37% Intake Leaving Dry Bulb Temperature: 74°F Intake Leaving Wet Bulb Temperature: 70°F

Temperature drop calculations are based on tested data.

Supply Installation Information:

Gas Inlet Pressure: 7 in. w.c. - 14 in. w.c. Insurance: No Insurance Requirement (ANSI)

Unit Main Input: 75.0 Amps MCA, 125 Amps MOP, 208 V, 4 AWG

Wire Min.

Supply Unit Voltage: 1 phs 208 V 60Hz via VFD

Blower:

25" forward curved, centrifugal blower. Permanently lubricated pillow block ball bearings. Enamel finish. 10000-25000 CFM. 2 3/16" x 54-1/2" Shaft. 1000 maximum RPM. Heavy duty angle iron frame. Used in heated and non-heated supply fans.

Temp Control:

RTC Solutions • 40-90°F Discharge Temp Control • Field Wired On/Off Start Command

Intake:

Size # 6 Celdek Evaporative Cooler for Size # 5 Modular Heater. 74.822" Wide x 105.238" Long x 58.375" High. Includes intake hood with filters. For outdoor installation. Use with water softener recommended.

Filters:

8x MV EZ Kleen Metal Mesh Filter. 20"x 25"x 2" Used for heater and supply fan intakes. (3416)

Selected Options:

- Motorized Back Draft Damper 43" X 43" for Size 5 Standard & Modular Heater Units w/Extended Shaft, Standard Galvanized Construction, 3/4" Rear Flange, Low Leakage, NFBUPS Actuator Included
- Low Fire Start. Allows the burner circuit to energize when the modulation control is in a low fire position.
- Gas Pressure Gauge, 0-35", 2.5" Diameter, 1/4" Thread Size
- Gas Pressure Gauge, -5 to +15 Inches Wc., 2.5" Diameter, 1/4" Thread Size
- Freeze Protection Drain Control kit for Evaporative Coolers. Includes 3-Way water solenoid valve 8316G064 (shipped loose), Pressure switch installed upstream of 2way solenoid in unit, Brass Tee, 2 NPT half inch nipples, and two stage thermostat T678A1361. Field wiring required by others for 3-way valve. For both Celdek and Standard V-bank type Configurations.
- VAV (Variable-Air-Volume) Wiring Package for Commercial Fans.
 Manual Speed Control Variable Frequency Drive Included
- Supply Variable Frequency Drive 20 HP Max., 200/240 V, Three Phase, 54.0 A Max., NEMA 1 Enclosure, (Default is Shipped Loose for Field Installation) PART NEEDS PROGRAMMING
- · VFD factory mounted and wired on unit control panel.

TK5 DIRECT FIRED HEATER WITH EVAP

- 1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 25" BLOWER AND 48" BURNER
- 2. EVAP COOLER (LPD CELDEK) WINTAKE HOOD W/EZ FILTERS
- 3. DOWN DISCHARGE AIR FLOW RIGHT -> LEFT
- 4. MOTORIZED BACK DRAFT DAMPER 43" X 43" FOR SIZE 5 STANDARD & MODULAR HEATER UNITS WÆXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, NFBUPS ACTUATOR INCLUDED 5. LOW FIRE START. ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.

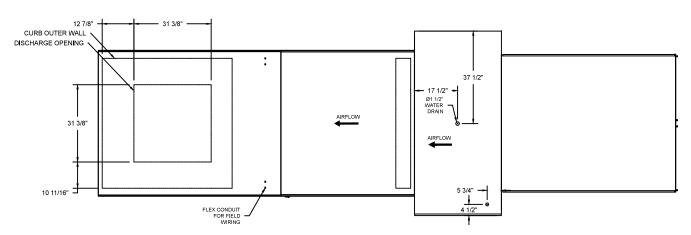
- 6. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE
- 7. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC., 2.5" DIAMETER, 1/4" THREAD SIZE
- 8. FREEZE PROTECTION DRAIN CONTROL KIT FOR EVAPORATIVE COOLERS. INCLUDES 3-WAY WATER SOLENOID VALVE 8316G064 (SHIPPED LOOSE)

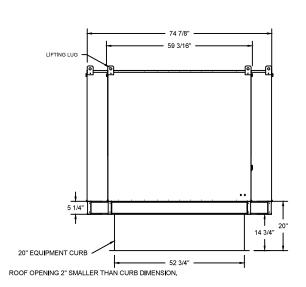
PRESSURE SWITCH INSTALLED UPSTREAM OF 2WAY SOLENOID IN UNIT, BRASS TEE, 2 NPT HALF INCH NIPPLES, AND TWO STAGE THERMOSTAT T678A1361. FIELD WIRING REQUIRED BY OTHERS FOR 3-WAY VALVE, FOR BOTH CELDEK AND STANDARD V-BANK TYPE CONFIGURATIONS.

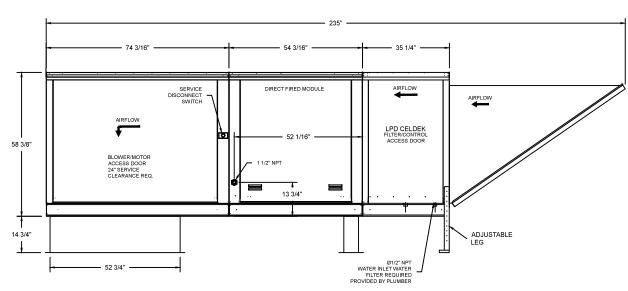
NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT

DISCHARGE UNLESS OTHERWISE SPECIFIED. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT.











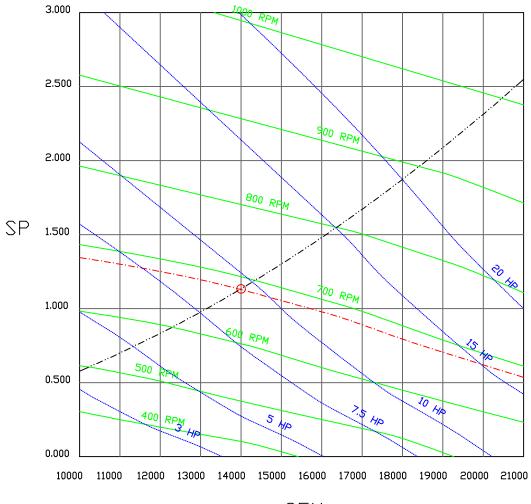






JOB	
LOCATION	
<i>DATE</i> 08/01/2018	JOB #
DWG #	DRAWN BY
REV.	SCALE

14000 CFM, 1.133 SP @ 682 RPM and 9.258 BHP at 0 feet and 100 deg F ** Please note that these curves were adjusted for job specific temperature and altitude.



CFM





JOB	
LOCATION	
DATE 8/3/2018	JOB #
DWG #	DRAWN BY
REV.	SCALE 3/8'' = 1'-0''

