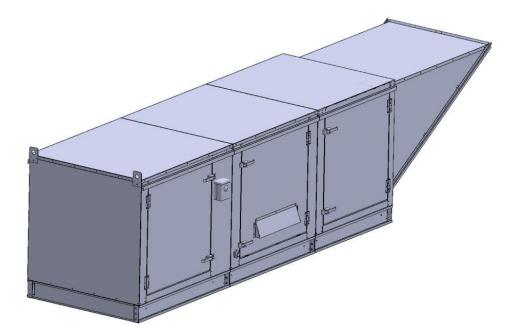


Gas-Fired Tempered Make-Up Air Unit / EVAP

Model:

TK3-EVAP-3PH-FF

3-Phase, 460V, 5.00 HP, Belt driven with Motorized Damper and 18" Blower. MAX 7000 CFM's





NAKS Inc 172 Reaser Ct Elyria, OH 44035 **Tel:** (440) 365-4567 **Fax:** (440) 365-2100 www.naksinc.com



TK3-750 Direct Fired EVAP (1491 lbs.)

Supply Motor:

Model DTP0054, 5.000 HP, 3 Phase, 460 V, 60Hz, 6.8 FLA, ODP, Premium (E-Plus3) Eff.

Supply Motor Pulleys:

<u>Part Type</u>	<u>Qt</u> y	Browning #	Turns Out
Blower Pulley	1	2BK70H	
Bushing	1	H-1 3/16	
Motor Pulley	1	2VP42 x 1 1/8	2.5

Burner:

Min Output BTU: 27,500 BTU/Hr Max Output BTU: 825,000 BTU/Hr Size: 18" long Gas Type: Natural

Supply Performance:

Volume: 7000 cfm Volume Range: 3500-7000 cfm RPM: 929 TS: 4378 ft/min SP: 1.139" w.g. 0.500" Ext. + 0.600" Int. + 0.039" Opt. BHP: 4.694

Heating Schedule:

Altitude: 0' Winter Entering Air Dry Bulb Temp: 0°F Temp Rise: 100°F Output BTU: 756000 Input BTU: 821739 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: 73°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: 9.1 Amps MCA, 15 Amps MOP, 460 V, 14 AWG Wire Min. Supply Unit Voltage: 3 phs 460 V 60Hz

Construction Features

Housing constructed of heavy duty G90 galvanized steel • Forward curved centrifugal blower wheel • Vibration isolation • Adjustable drive assemblies • Adjustable motor mount • Ball bearing motors • Heavy duty, pre-lubricated bearings rated for 200,000 hours of operation • Static resistant belts • Service doors on both sides • Horizontal & down discharge • Large intake area ensures low pressure drop across unit • Spring loaded profile plates automatically adjust for any airflow - no manual setting required! • Weatherproof safety disconnect switch • Modular design provides design flexibility • Fully insulated casing

Blower:

18" forward curved, centrifugal blower. Pillow Block ball bearings. Galvanized finish. 4000-12000 CFM. 1-3/16" x 34" Shaft. 1450 max. RPM. 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 # 4 Celdek Evaporative Cooler for Size # 3 Modular Heater. 47.813" Wide x 110.238" Long x 51.375" High. Includes intake hood with filters. For outdoor installation. Use with water softener recommended.

Filters:

10x MV EZ Kleen Metal Mesh Filter. 16"x 20"x 2" Used for heater and supply fan intakes. (3412)

Selected Options:

 Motorized Back Draft Damper 30" X 30" for Size 3 Standard & Modular Heater Units w/Extended Shaft, Standard Galvanized Construction, 3/4" Rear Flange, Low Leakage, NFBUP-S 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. TK3 DIRECT FIRED HEATER WITH EVAP

1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 18" BLOWER AND 12" BURNER.

2. EVAP COOLER (LPD CELDEK) - W/INTAKE HOOD W/EZ FILTERS

3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT

4. MOTORIZED BACK DRAFT DAMPER 30" X 30" FOR SIZE 3 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED

CONSTRUCTION, 3/4" REAR FLANGE, NFBUP-S ACTUATOR INCLUDED

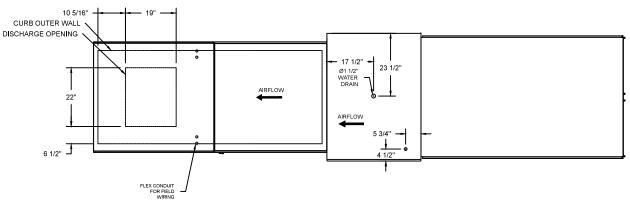
5. LOW FIRE START. ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.

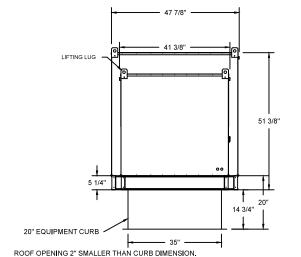
6. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE

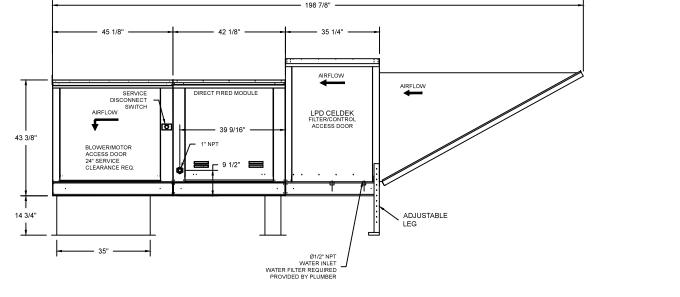
7. GAS PRESSURE GAUGE, 5 TO +15 INCHES WC., 2.5" DIAMETER, 1/4" THREAD SIZE

8. FREEZE PROTECTION DRAIN CONTROL KIT FOR EVAPORATIVE COOLERS. INCLUDES 3-WAY WATER SOLENOID VALVE 83166064 (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 EQUAL TO THREE TIMES THE SUPPLY DUCT EQUIVALENT DIAMETER MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE UNLESS OTHERWISE SPECIFIED. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY.









7000 CFM, 1.139 SP @ 929 RPM and 4.694 BHP at 0 feet and 100 deg F * Please note that these curves were adjusted for job specific temperature and altitude.

