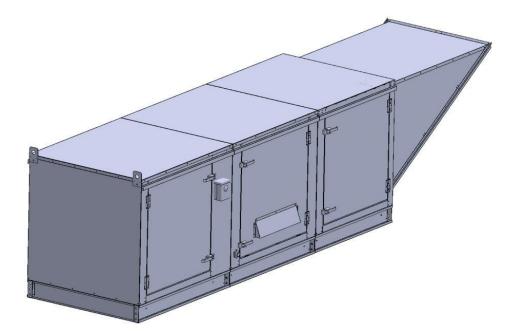


Gas-Fired Tempered Make-Up Air Unit / EVAP

Model:

TK4-EVAP-3PH-FF

3-Phase, 460V, 5.00 HP, Belt driven with Motorized Damper and 20" Blower. MAX 9600 CFM's





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



TK4-1000 Direct Fired EVAP (2064 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
Belt	2	BX80	
Blower Pulley	1	2BK90H	
Motor Pulley	1	2VP42 x 1 1/8	3.5

Burner:

Min Output BTU: 36,667 BTU/Hr Max Output BTU: 1,100,001 BTU/Hr Size: 24" long Gas Type: Natural

Supply Performance:

Volume: 9600 cfm Volume Range: 6000-9600 cfm RPM: 684 TS: 3581 ft/min SP: 1.060" w.g. 0.500" Ext. + 0.520" Int. + 0.040" Opt. BHP: 4.695

Heating Schedule:

Altitude: 0' Winter Entering Air Dry Bulb Temp: 0°F Temp Rise: 100°F Output BTU: 1036800 Input BTU: 1126957 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:

20" forward curved, centrifugal blower. Permanently lubricated pillow-block ball bearings. Enamel finish. 5000-18000 CFM. 1-7/16" x 37.25" Shaft. 1100 max. RPM. Heavy duty angle iron frame. Used in heated and non-heated supply fans.

Temp Control:

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

Intake:

Size # 5 Celdek Evaporative Cooler for Size # 4 Modular Heater. 59.563" 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 34" X 36" for Size 4 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. TK4 DIRECT FIRED HEATER WITH EVAP

1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 20" BLOWER AND 24" BURNER.

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

3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT

4. MOTORIZED BACK DRAFT DAMPER 34" X 36" FOR SIZE 4 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED

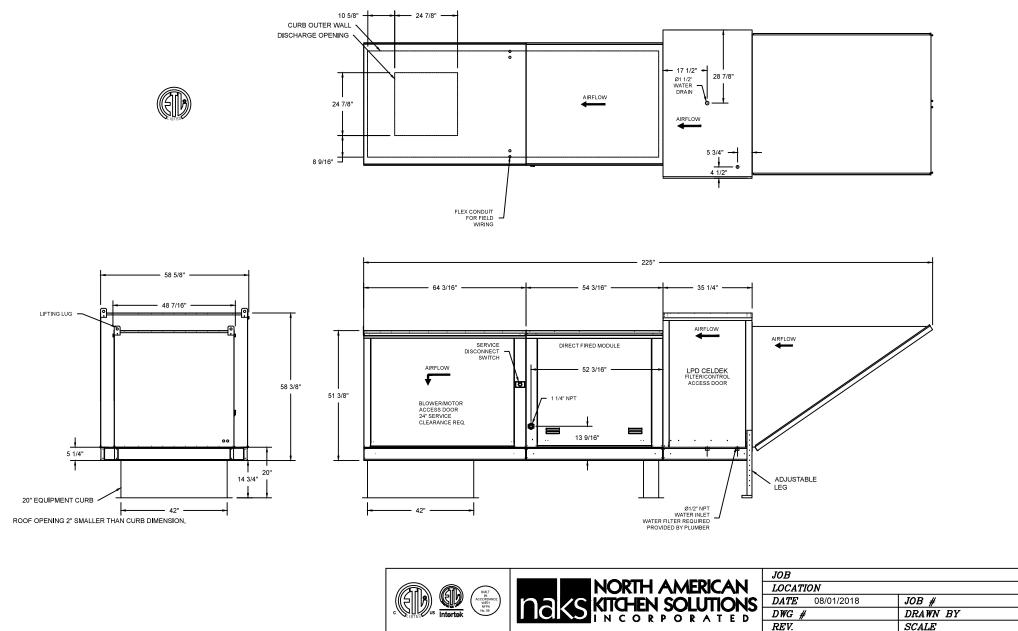
CONSTRUCTION, 3/4" REAR FLANGE, NFBUP-S ACTUATOR INCLUDED 5. LOW FIRE START. ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.

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

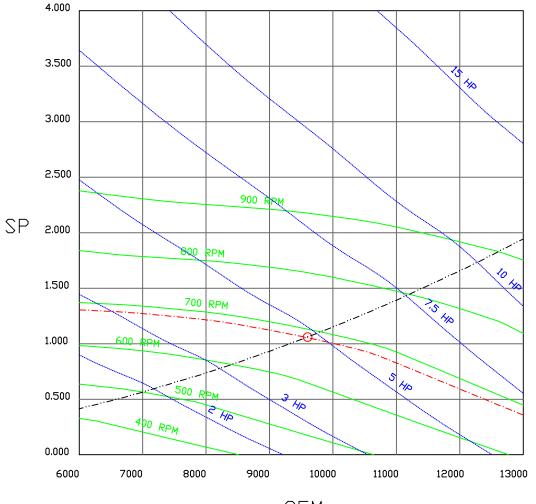
7. GAS PRESSURE GAUGE, 5 TO +15 INCHES WC., 2.5" DIAMETER, 1/4" THREAD SIZE

8: FREEZE PROTECTION DRAIN CONTROL KIT FOR EVAPORATIVE COOLERS. INCLUDES 3-WAY WATER SOLENOID VALVE 8316064 (SHIPPED LOOSE), PRESSURE SWITCH INSTALLED UPSTREAM OF 2WAY SOLENOID IN UNIT. BRASS TEE, 2 NPT HALF INCH NIPPLES, AND TWO STAGE THERMOSTAT T676A1361. 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.



9600 CFM, 1.06 SP @ 684 RPM and 4.695 BHP at 0 feet and 100 deg F \ast Please note that these curves were adjusted for job specific temperature and altitude.



CFM



