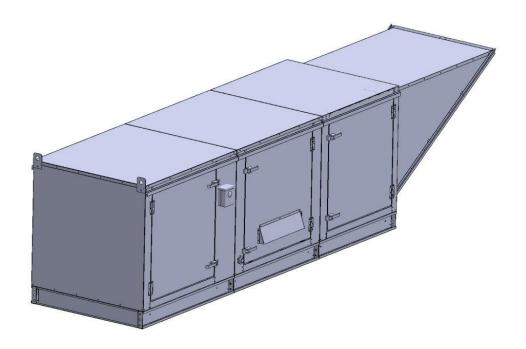


Gas-Fired Tempered Make-Up Air Unit / EVAP

Model:

TK4-EVAP-3PH-FF

3-Phase, 208V, 5.00 HP, Belt driven with Motorized Damper and 20" Blower. MAX 9600 CFM's



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, 208 V, 60Hz, 15.0 FLA, ODP, Premium (E-Plus3) Eff.

Supply Motor Pulleys:

 Part Type
 Qty
 Browning #
 Turns Out

 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: 20.0 Amps MCA, 30 Amps MOP, 208 V, 12 AWG

Wire Min.

Supply Unit Voltage: 3 phs 208 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 • 40-90°F Discharge Temp Control • 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.

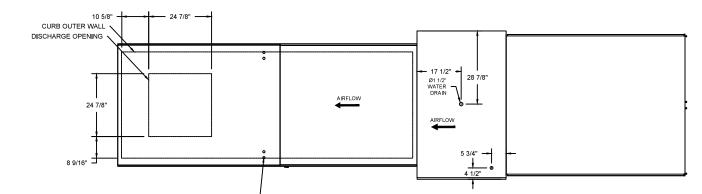
6. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE

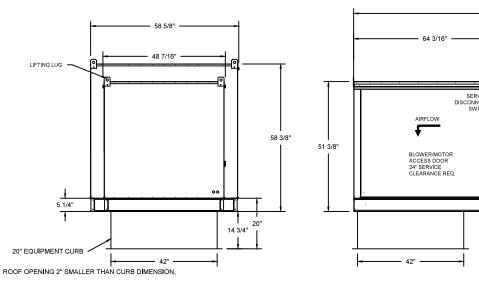
7. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC., 2.5" DIAMETER, 1/4" THREAD SIZE

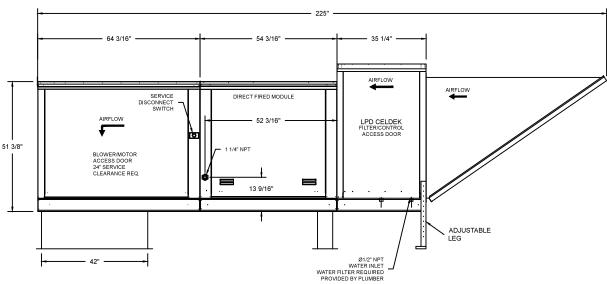
8. FREEZE PROTECTION DRAIN CONTROL KIT FOR EVAPORATIVE COOLERS. INCLUDES 3-WAY WATER SOLENOID VALVE 8316G064 (SHIPPED LOOSE),

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 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.









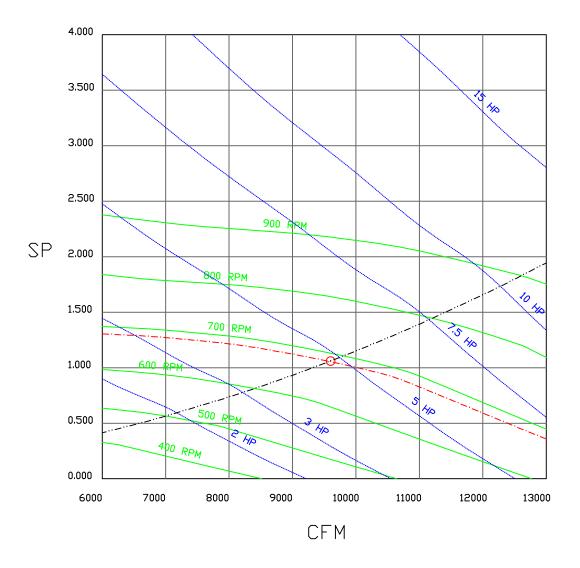


FLEX CONDUIT FOR FIELD



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

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







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

