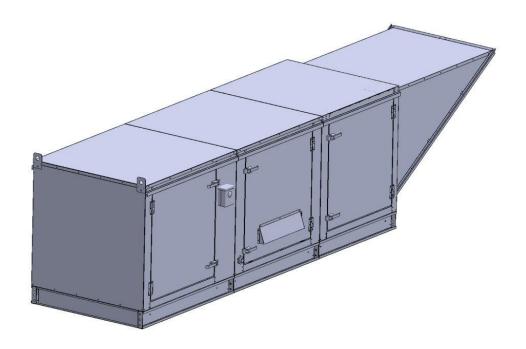


# **Gas-Fired Tempered Make-Up Air Unit / EVAP**

# Model:

# TK2-EVAP-3PH-FF

3-Phase, 460V, 2.00 HP, Belt driven with Motorized Damper and 15" Blower. MAX 3400 CFM's



Tel: (440) 365-4567

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www.naksinc.com







TK2-500 Direct Fired EVAP (1066 lbs.)

#### **Supply Motor:**

Model 00218OT3E56Z-S48PP, 2.000 HP, 3 Phase, 460 V, 60Hz, 2.6 FLA, ODP (Open Drip Proof)

#### **Supply Motor Pulleys:**

Part Type	<u>Qty</u>	Browning #	Turns Out
Blower Pulley	1	AK54 x 1	
Motor Pulley	1	1VL40 x 7/8	3.5

#### Burner:

Min Output BTU: 18,000 BTU/Hr Max Output BTU: 550,000 BTU/Hr

Size: 12" long Gas Type: Natural

## **Supply Performance:**

Volume: 3400 cfm Volume Range: 2500-3400 cfm

RPM 957 TS: 3758 ft/min SP: 0.873" w.g.

0.500" Ext. + 0.348" Int. + 0.025" Opt.

BHP: 1.926

## **Heating Schedule:**

Altitude: 0'

Winter Entering Air Dry Bulb Temp: 0°F

Temp Rise: 100°F Output BTU: 367200 Input BTU: 399130

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: 3.8 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:

15" forward curved, centrifugal blower. Pillow Block ball bearings. Galvanized finish. 1" x 27-1/8" Shaft. 2000-7500 CFM. 1800 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 # 3 Celdek Evaporative Cooler for Size # 2 Modular Make-Up Air Heater. 40.75" Wide x 83.75" Long x 43.375" High. Includes intake hood with filters. For outdoor installation. Use with water softener recommended.

#### Filters:

6x 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 22.75" X 24" for Size 2 Standard & Modular Heater Units w/Extended Shaft, Standard Galvanized Construction, 3/4" Rear Flange, Low Leakage, LF120S 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.

TK2 DIRECT FIRED HEATER WITH EVAP

- 1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 15" BLOWER
- 2. EVAP COOLER (LPD CELDEK) W/INTAKE HOOD W/EZ FILTERS
- 3. DOWN DISCHARGE AIR FLOW RIGHT -> LEFT
- 4. MOTORIZED BACK DRAFT DAMPER 22.75" X 24" FOR SIZE 2 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED

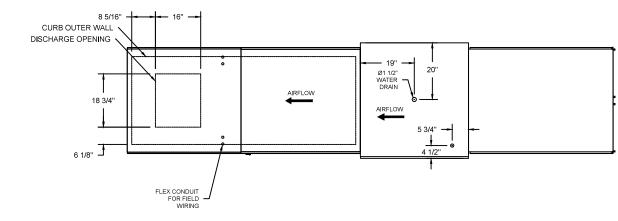
CONSTRUCTION, 3/4" REAR FLANGE, LF120S ACTUATOR INCLUDED

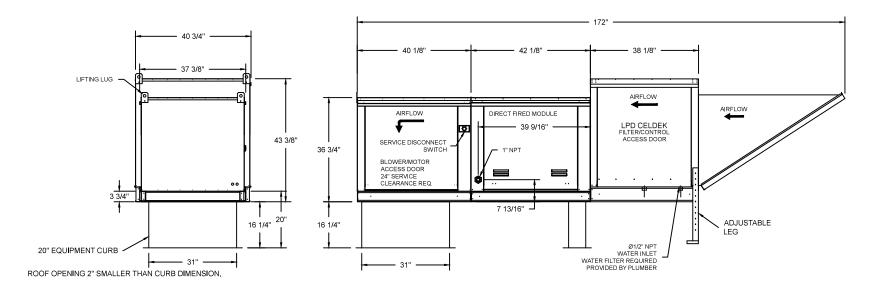
- 5. LOW FIRE START. ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
- 6, GAS PRESSURE GAUGE, 0-35", 2,5" DIAMETER, 1/4" THREAD SIZE
- 7. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC., 2.5" DIAMETER, 1/4" THREAD SIZE

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.



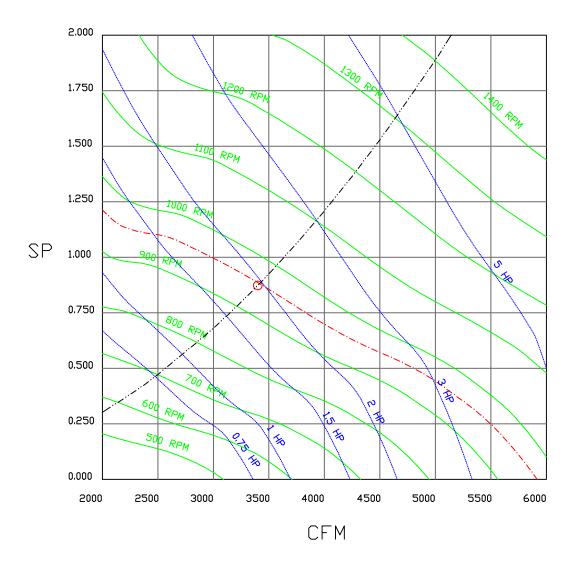






JOB			
LOCATION			
<b>DATE</b> 08/01/2018	JOB #		
DWG #	DRAWN BY		
REV.	SCALE		

3400 CFM, 0.873 SP @ 957 RPM and 1.926 BHP at 0 feet and 100 deg F \*\* Please note that these curves were adjusted for job specific temperature and altitude.







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

