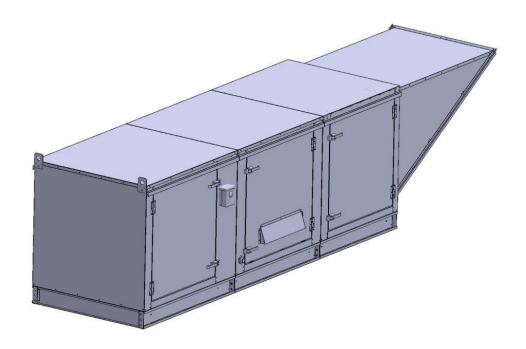


Gas-Fired Tempered Make-Up Air Unit / EVAP

Model:

TK1-EVAP-3PH-FF

3-Phase, 208V, 1.50 HP, Belt driven with Motorized Damper and 10" Blower. MAX 2400 CFM's



Tel: (440) 365-4567

Fax: (440) 365-2100

www.naksinc.com







TK1-250 Direct Fired EVAP (828 lbs.)

Supply Motor:

Model 00158OT3E56-S48PP, 1.500 HP, 3 Phase, 208 V, 60Hz, 4.6 FLA, ODP (Open Drip Proof)

Supply Motor Pulleys:

Part Type	<u>Qt</u> y	Browning #	Turns Out
Belt	1	AX39	
Blower Pulley	1	AK46 x 3/4	
Motor Pulley	1	1VL40 x 5/8	1.0

Burner:

Min Output BTU: 18,000 BTU/Hr Max Output BTU: 275,000 BTU/Hr

Size: 6" long Gas Type: Natural

Supply Performance:

Volume: 2400 cfm Volume Range: 1000-2400 cfm

RPM: 1317 TS: 3448 ft/min SP: 0.871" w.g.

0.500" Ext. + 0.326" Int. + 0.045" Opt.

BHP: 1.455

Heating Schedule:

Altitude: 0'

Winter Entering Air Dry Bulb Temp: 0°F

Temp Rise: 100°F Output BTU: 259200 Input BTU: 281739

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: 7.0 Amps MCA, 15 Amps MOP, 208 V, 14 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:

10" forward curved, centrifugal blower. Permanently lubricated ball bearings. Galvanized finish. 3/4" x 19" Shaft. 0-4000 CFM. 2500 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 #2 Celdek Evaporative Cooler for Size # 1 Modular Heater. 36.75" Wide X 85.813" Long X 36.688" High. Includes intake hood with filters. For outdoor installation. Use with water softener recommended

Filters:

3x 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 16" X 18" for Size 1 Standard & Modular Heater Units w/Extended Shaft, Standard Galvanized Construction, 3/4" Rear Flange, Low Leakage, TFB120S 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.

TK1 DIRECT FIRED HEATER WITH EVAP

- 1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 10" BLOWER
- 2. EVAP COOLER (LPD CELDEK) W/INTAKE HOOD W/EZ FILTERS
- 3. DOWN DISCHARGE AIR FLOW RIGHT -> LEFT
- 4. LOW FIRE START. ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
- 5. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE
- 6. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC., 2.5" DIAMETER, 1/4" THREAD SIZE
- 7. FREEZE PROTECTION DRAIN CONTROL KIT FOR EVAPORATIVE COOLERS. INCLUDES 3-WAY WATER SOLENOID VALVE 8316G064 (SHIPPED LOOSE),

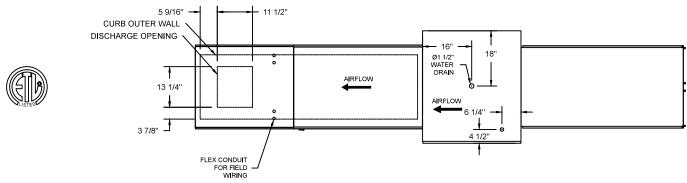
PRESSURE SWITCH INSTALLED UPSTREAM OF 2WAY SOLENOID IN UNIT, BRASS TEE, 2 NPT HALF INCH NIPPLES, AND TWO STAGE THERMOSTAT T678A1361.

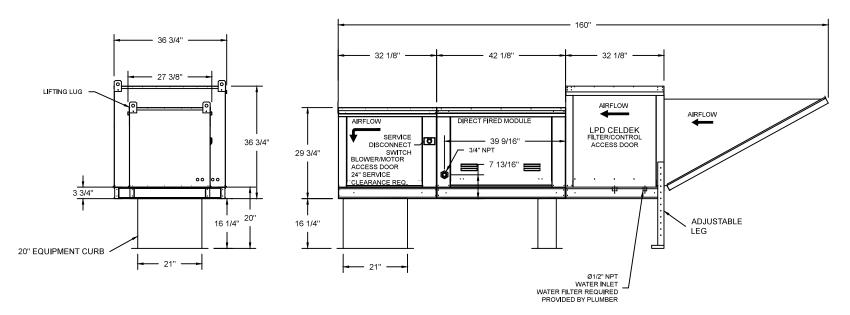
FIELD WIRING REQUIRED BY OTHERS FOR 3-WAY VALVE. FOR BOTH CELDEK AND STANDARD V-BANK TYPE CONFIGURATIONS.

8. MOTORIZED BACK DRAFT DAMPER 16" X 18" FOR SIZE 1 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED

CONSTRUCTION, 3/4" REAR FLANGE, TFB120S ACTUATOR INCLUDED

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.



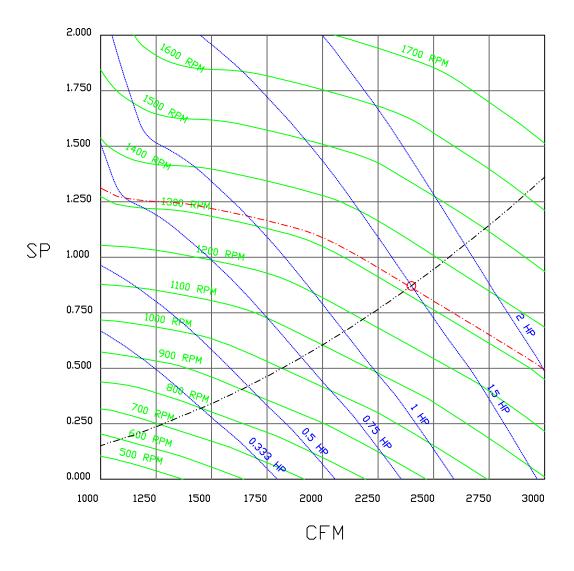






JOB	
LOCATION	
<i>DATE</i> 08/01/2018	JOB #
DWG #	DRAWN BY
REV.	SCALE

2400 CFM, 0.871 SP @ 1317 RPM and 1.455 BHP at 0 feet and 100 deg F \ast 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"

