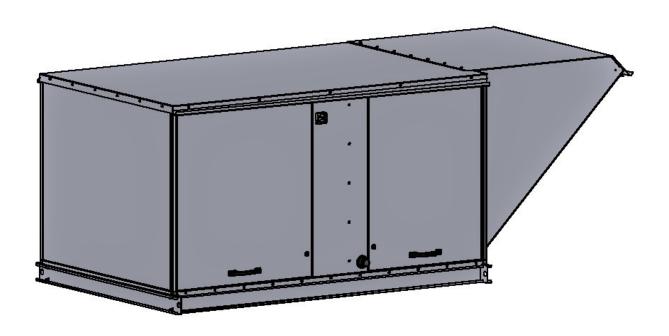


# **Gas-Fired Tempered Make-Up Air Unit / EVAP**

## Model:

T4-EVN-7800-230-3

3-Phase, 230V, 5.00 HP, Belt driven with Motorized Damper and 18" Blower. MAX 7,800 CFM



Tel: (440) 365-4567

Fax: (440) 365-2100

www.naksinc.com







T4-HOXEVN Direct Fired EVAP (1,185 lbs.)

### **Supply Motor:**

Model GT0013A, 5.00 HP, 230-3-60, 12.6 FLA, ODP (Open Drip Proof)

## **Supply Motor Pulleys:**

Part Type	<u>Qty</u>	Browning #	Turns Out	
Blower Pulley	1	MB103 x 1		
Motor Pulley	1	1VP50 x 1-1/8	3.0	

### Burner:

Min Output BTU: 43,000 BTU/Hr Max Output BTU: 1,125,000 BTU/Hr

Size: 18" long Gas Type: Natural

## **Supply Performance:**

Volume: 7800 cfm Volume Range: 3700-7800 cfm

RPM: 758 TS: 3671 ft/min SP: 1.83" w.g.

0.50" Ext. + 0.80" Int. + 0.53" Opt.

BHP: 4.20

## **Heating Schedule:**

Altitude: 0'

Winter Entering Air Dry Bulb Temp: 0°F

Temp Rise: 100°F Output BTU: 803,000 Input BTU: 873,000

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: 76°F Intake Leaving Wet Bulb Temperature: 70°F

Temperature drop calculations are based on tested data.

## Supply Installation Information:

Gas Inlet Pressure: 14 in. w.c. - 1 p.s.i.

Insurance: FM/ETL

Unit Main Input: 18.75 Amps MCA, 30 Amps MOP, 230V,

12 AWG Wire Min.

Supply Unit Voltage: 230v-3ph-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 L10 rated for 100,000 hours of operation • Static resistant belts • Service doors on both sides • Horizontal & down discharge • Large intake area ensures low pressure drop across unit • Electronic Burner Profiler System automatically adjusts 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. Permanently lubricated ballbearings. Galvanized finish. 1" Shaft. 1,450 max. RPM. Used in heated and non-heated supply fans.

### Temp Control:

Maxitrol Series 14 • 40-90°F Discharge Temp Control • Field Wired On/Off Start Command; Temperature set point dial at main panel.

#### Intake

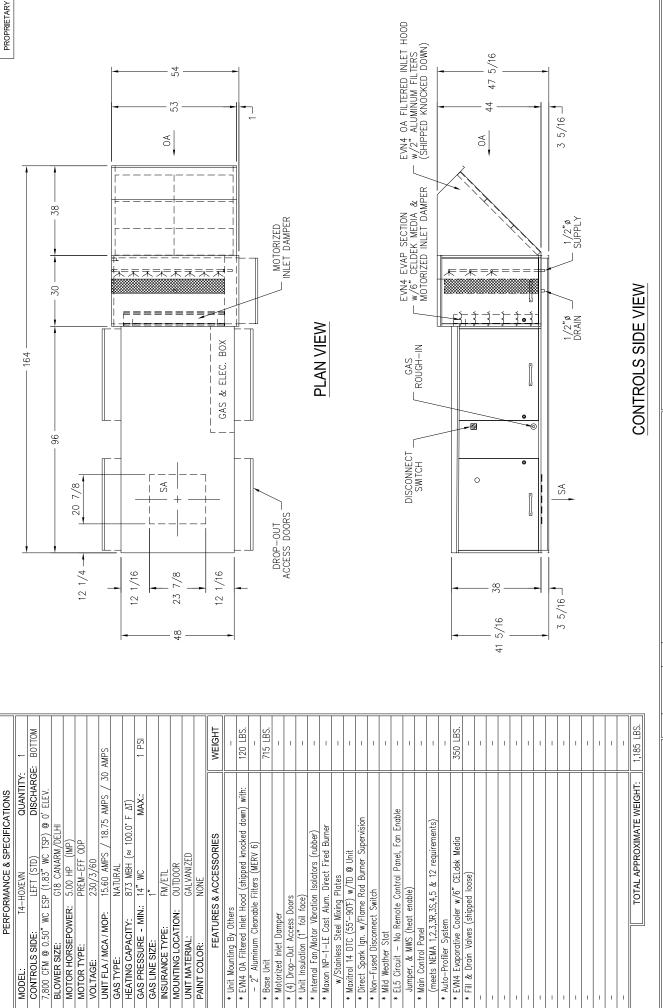
Size EVN4 CELdek Evaporative Cooler for T4 Modular Make-Up Air Heater. 54" Wide x 68" Long x 44" High. Includes intake hood with filters. For outdoor installation. Use with water softener recommended.

### Filters:

6x MV EZ Kleen Metal Mesh Filter. 16"x 25"x 2" Used for heater and supply fan intakes.

### Selected Options:

- \* Motorized Inlet Damper 43"W x 36"H for EVN4/T4 Modular Heating Units w/Extended Shaft, Standard Galvanized Construction, 3/4" Rear Flange, LMX24-3-S Actuator Included (with end switch).
- \* Low Fire Start. Allows the burner circuit to energize when the modulation control is in a low fire position.
- \* Freeze Protection Drain Control Kit for Evaporative Coolers. Includes (2) 2-Way water solenoid valves ZONE215N-10+ZONE24 (NO & NC; shipped loose), Drain Stat, Overflow Water Sensor, and Liquid Level Controller installed upstream of 2-Way solenoid in unit, 1/2" PVC piping & fittings, and Outdoor Air Stat T6031A1136. Field wiring required by others for (2) 2-way valves. Includes 6"D CELdek evaporative media.

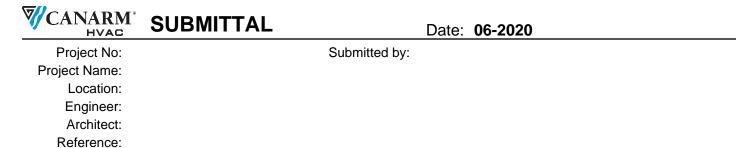


REV



DATE	BY DESCRIPTION OF REVISION	PROJECT NAME:		1		
	1	REF. NO./JOB NO.:	MODEL:	T4-H0XEVN	TAG:	1
	1	DRAWN BY: BMA	DATE:	08-2020	SCALE:	NON.
	1	CERTIFIED BY:	DRAWING NO.:	T4-EWN-	T4-EVN-7800-230-3	-3

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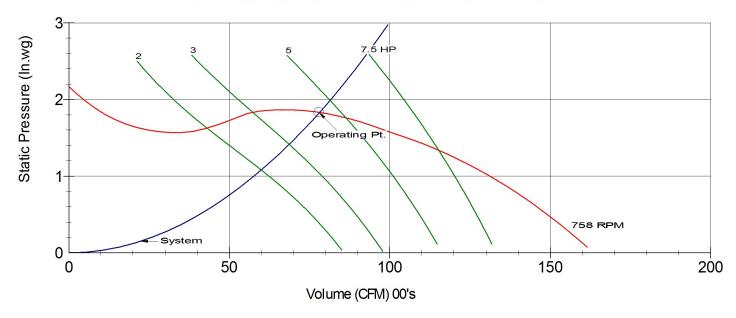
Equipment Tag

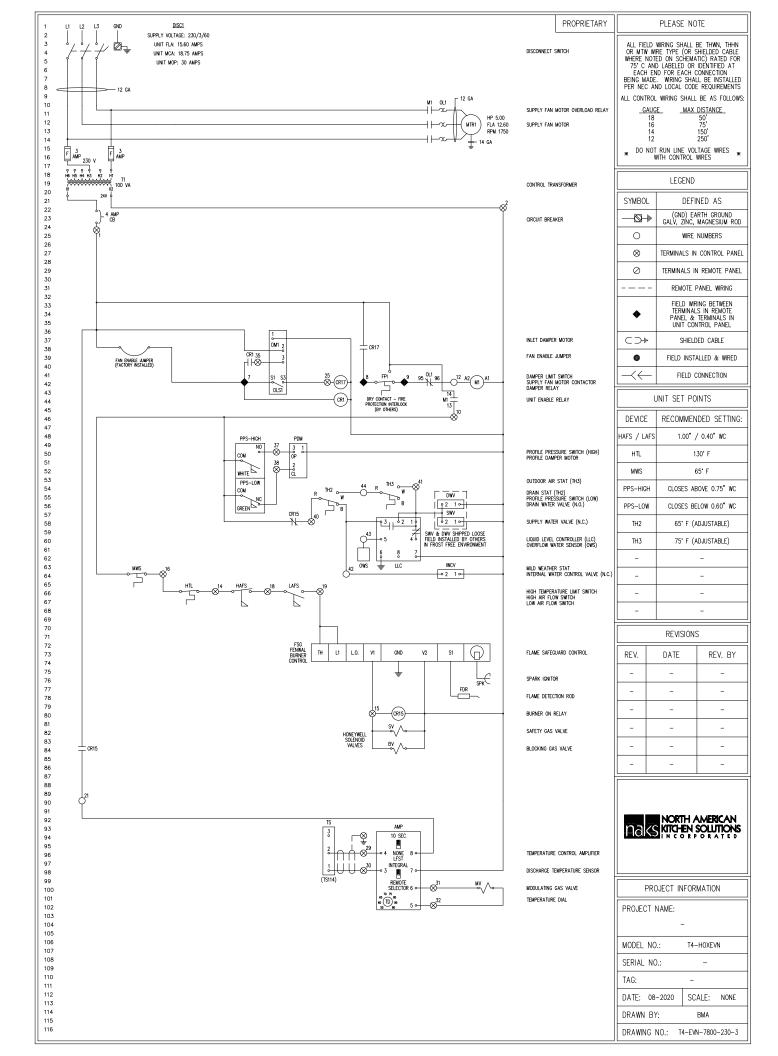
Contractor:

Model Informa	tion											
Model: G18				Part Number:			9005493					
CFM:	7800	Shaft Diameter:				1 Unit Weight:			87			
SP: 1.83		Wheel Diameter:				18.5 Ship Weight:			99			
RPM: 758		Tip Speed:				3671 FPM						
BHP: 4.2		Static Efficiency:			53 Elevation:			0				
				0	utlet Ve	elocity:	2720 F	PM	Ten	nperature:	70	
Sound Data	63	125	250	500	1000	2000	4000	8000	(Hz)	LwA:	82	
Sound Power Level @ Frequency, re: 10^-12 Watts	87	86	82	79	76	72	68	66	(dB)	SONES:	19.1	
Ducted inlet or ducted outlet dBA @5 ft. 71								Ducted inlet and ducted outlet dBA @5 ft. 51				

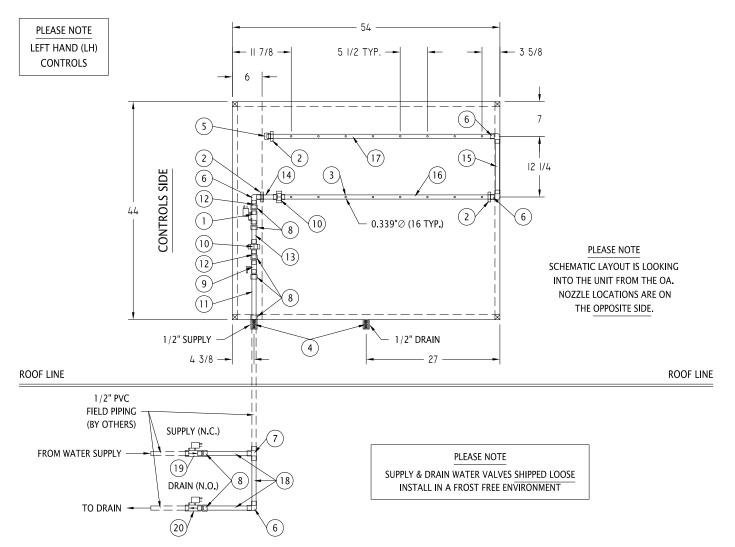
## **Performance Curve**

## DELHI Model G18 CFM=7800 SP=1.83 BHP=4.2 S. Eff=53% RPM=758





## EVN4 w/F&D VALVES (LH) - EVAP. PIPING SCHEMATIC



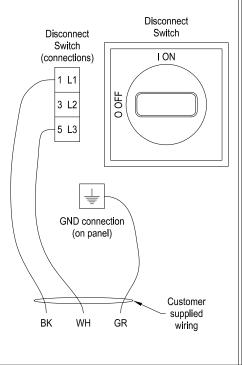
ITEM	QTY.	DESCRIPTION OF PART
1	1	INTERNAL WATER CONTROL VALVE (N.C.)
2	3	1/2" PIPE GROMMET
3	16	WATER NOZZLE 115° w/FILTER
4	2	1/2" 304SS COUPLING ( welded on)
5	1	1/2" PVC CAP
6	4	1/2" PVC ELBOW
7	1	1/2" PVC TEE
8	7	1/2" PVC MALE ADAPTER
9	1	1/2" PVC SHUT OFF COCK
10	2	1/2" PVC UNION - SCH 40
11	1	1/2" PVC PIPE x 9"
12	2	1/2" PVC PIPE x 1-1/2"
13	1	1/2" PVC PIPE x 3-1/2"
14	1	1/2" PVC PIPE x 4-1/4"
15	1	1/2" PVC PIPE x 11"
16	1	1/2" PVC PIPE x 43" (with holes)
17	1	1/2" PVC PIPE x 45–7/8" (with holes)
18	3	1/2" PVC PIPE x 10"
19	1	SUPPLY WATER VALVE (N.C.) – SHIPPED LOOSE & INSTALLED BY OTHERS
20	1	DRAIN WATER VALVE (N.O.) – SHIPPED LOOSE & INSTALLED BY OTHERS

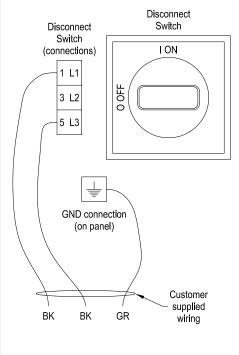


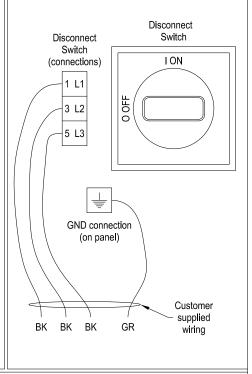
## 115-1-60

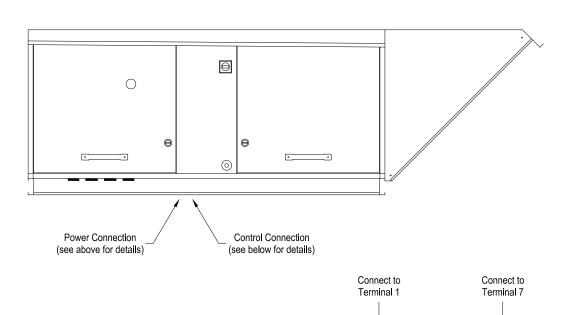
## 208/230-1-60

## 208/230/460/575-3-60











PROJECT NAME:	NAKS T1-T5 DIRECT	FIRED M	IUA INSTALLAT	TON WIRING		
REF. NO./JOB NO.:	_	MODEL:	T1-T5	TAG:	_	
DRAWN BY:	_	DATE:	06-2020	SCALE:	NONE	
CERTIFIED BY:		DRAWING	NO.:	T1-T5_INSTALL		

Fan Switch / Interlock Field provided BY OTHERS