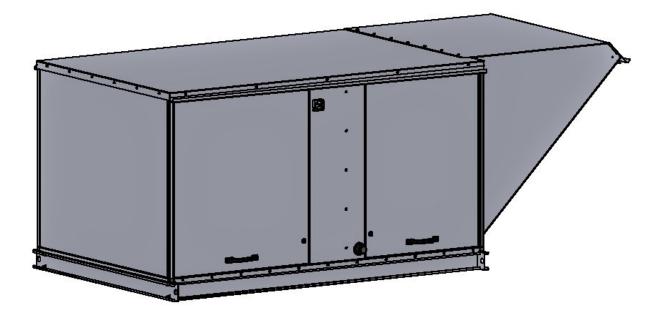


Gas-Fired Tempered Make-Up Air Unit / EVAP

Model:

T4-EVN-7800-460-3 3-Phase, 460V, 5.00 HP, Belt driven with Motorized Damper and 18" Blower. MAX 7,800 CFM







NAKS Inc 172 Reaser Ct Elyria, OH 44035



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

Supply Motor:

Model GT0013A, 5.00 HP, 460-3-60, 6.30 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: 7000 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: 9.48 Amps MCA, 15 Amps MOP, 460V, 14 AWG Wire Min. Supply Unit Voltage: 460v-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 ball bearings. 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.

	- BOTTOM			Ţ	164	•	
" WC ESP (1.83" WC TSP) @ (
G18 CANARM/DELHI				96	30 30	38	
MOTOR HORSEPOWER: 5.00 HP (IMP)				. 20 7/8			
MCA / MOP.	MPS						
873 MBH (≈ 100.0° F		_		12 1/16			
GAS PRESSURE - MIN: 14 WC MAX.:	I PSI	—					
				> _			
FEATURES & ACCESSORIES	WEIGHT][]					
* Unit Mounting By Others	1][GAS & ELEC. BUX H - *****		
* EVN4 OA Filtered Inlet Hood (shipped knocked down) with:	120 LBS.						
– 2" Aluminum Cleanable Filters (MERV 6)	I						
* Base Unit	715 LBS.						
* Motorized Inlet Damper	1			ACCESS DOORS		MUTURIZED INLET DAMPER	
+ 1 brop-out Access boors + 1 hit Insulation (1" fail face)		Т					
* Internal Fan /Mator Vibration Isolators (rubber)	1	Т					
* Maxon NP-1-1F Cast Alum Direct Fired Burner					PLAN VIEW		
w/Stainless Steel Mixing Plates	1						
* Maxitrol 14 DTC (55-90F) w/TD @ Unit	1						
* Direct Spark Ign. w/Flame Rod Burner Supervision	T						
* Non-Fused Disconnect Switch	T						
* Mild Weather Stat	I	_					
* ELS Circuit - No Kemote Control Panel, Fan Enable	1			DISCONNECT		SECTION EVN4 OA FILTERED INLET HOOD	
* Main Control Panel					P ROUGH-IN P W/6" CELDE	W/6" CELDEK MEDIA & //2" ALUMINUM FILTERS	
(meets NEMA 1.2.3.3R.3S.4.5 & 12 requirements)	I					_	
* Auto-Profiler System	1					-	
* EVN4 Evaporative Cooler w/6" CELdek Media	350 LBS.						
* Fill & Drain Valves (shipped loose)	T			(
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1	Т				DRAIN	SÚPPLY	
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TOTAL APPROXIMATE WEIGHT:	1,185 LBS.	الصار		CO	CONTROLS SIDE VIEW		
	REV	V. DATE	E BY	DESCRIPTION OF REVISION	PROJECT NAME:	1	
NORTH AMFRICAN						MODEL IN HOVEVAL	
いて				1			
			I	1	DRAWN BY: BMA	08-2020	
	1	1	I	1	CERTIFIED BY:	DRAWING NO.: T4-EVN-7800-460-3	

	SUBMITTAL	Date: 06-2020	
Project No:		Submitted by:	
Project Name:			
Location:			
Engineer:			
Architect:			
Reference:			
Equipment Tag		Contractor:	

Model Informat	tion										
Model:	G18				Part Nu	umber:	900549	93			
CFM:	7800			Sh	naft Dia	meter:	1 Unit Weight:				87
SP:	1.83			Wh	eel Dia	meter:	18.5 Ship Weight:			ip Weight:	99
RPM:	758				Tip S	Speed:	3671 FPM				
BHP:	4.2			Sta	tic Effic	ciency:	53			Elevation:	0
			Outlet Velocity:			elocity:	2720 FPM Temperature:			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 <u>or</u> ducted outlet dBA @5 ft. 71 Ducted inlet <u>and</u> ducted outlet dBA @5 ft.								d outlet dBA @5 ft. 51			

Performance Curve

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

