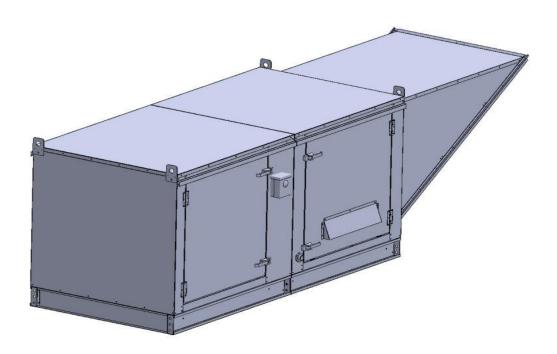


Gas-Fired Tempered Make-Up Air Unit

Model:

TK3-1PH-FF

1-Phase, 230V, 3.00 HP, Belt driven with Motorized Damper and 18" Blower. MAX 6200 CFM's



Tel: (440) 365-4567

Fax: (440) 365-2100

www.naksinc.com







TK3-750 Direct Fired (1019 lbs.)

Supply Motor:

Model 00318OT3E56Z-48PP, 3.000 HP, 3 Phase, 230 V, 60Hz, 14.9 FLA, ODP, Premium (E-Plus3) Eff.

Supply Motor Pulleys:

Part Type	<u>Qty</u>	Browning #	Turns Out
Belt	2	BX56	
Blower Pulley	1	2BK80H	
Bushing	1	H-1 3/16	
Motor Pulley	1	2VP42 x 7/8	4.0

Burner:

Min Output BTU: 27,500 BTU/Hr Max Output BTU: 825,000 BTU/Hr

Size: 18" long Gas Type: Natural

Supply Performance:

Volume: 6200 cfm Volume Range: 3500-6200 cfm

RPM: 750 TS: 3534 ft/min SP: 0.639" w.g.

0.500" Ext. + 0.109" Int. + 0.030" Opt.

BHP: 2.745

Heating Schedule:

Altitude: 0'

Winter Entering Air Dry Bulb Temp: 0°F

Temp Rise: 100°F Output BTU: 669600 Input BTU: 727826

BTUs BASED OFF STANDARD AIR DENSITY

Supply Installation Information:

Gas Inlet Pressure: 7 in. w.c. - 14 in. w.c. Insurance: No Insurance Requirement (ANSI)

Unit Main Input: 22.5 Amps MCA, 35 Amps MOP, 208 V, 10 AWG

Wire Min.

Supply Unit Voltage: 1 phs 230 V 60Hz via VFD

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:

18" forward curved, centrifugal blower. Pillow Block ball bearings. Galvanized finish. 4000-12000 CFM. 1-3/16" x 34" Shaft. 1450 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:

Sloped Filtered Intake for Size #3 Modular Heater. 37.25" Wide X 51.625" Long X 35.188" High. Includes 2" MV EZ Kleen Metal Mesh Filter.

Filters:

6x MV EZ Kleen Metal Mesh Filter. 16"x 20"x 2" Used for heater and supply fan intakes. (3412)

Selected Options:

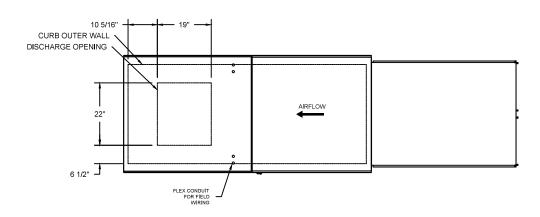
- Motorized Back Draft Damper 30" X 30" for Size 3 Standard & Modular Heater Units w/Extended Shaft, Standard Galvanized Construction, 3/4" Rear Flange, Low Leakage, NFBUP-S Actuator Included
- Low Fire Start. Allows the burner circuit to energize when the modulation control is in a low fire position.
- 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
- VAV (Variable-Air-Volume) Wiring Package for Commercial Fans.
 Manual Speed Control Variable Frequency Drive Included
- Supply Variable Frequency Drive 3 HP Max., 200/240 V, Single or Three Phase Input, 9.6 A Max., NEMA 1 Enclosure, (Default is Shipped Loose for Field Installation) PART NEEDS PROGRAMMING
- VFD factory mounted and wired on unit control panel.

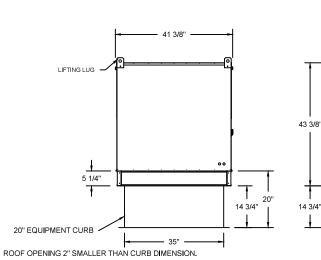
TK3 DIRECT FIRED HEATER

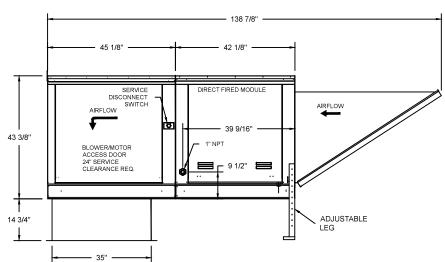
- 1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 18" BLOWER AND 18" BURNER.
- 2. INTAKE HOOD WITH EZ FILTERS
- 3. DOWN DISCHARGE AIR FLOW RIGHT -> LEFT
- 4. MOTORIZED BACK DRAFT DAMPER W/STANDARD GALVANIZED CONSTRUCTION, LOW LEAKAGE, NFBUP-S ACTUATOR
- 5. LOW FIRE START. ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
- 6. GAS PRESSURE GAUGE, 0-35"
- 7. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC.

NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE UNLESS OTHERWISE SPECIFIED. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT.









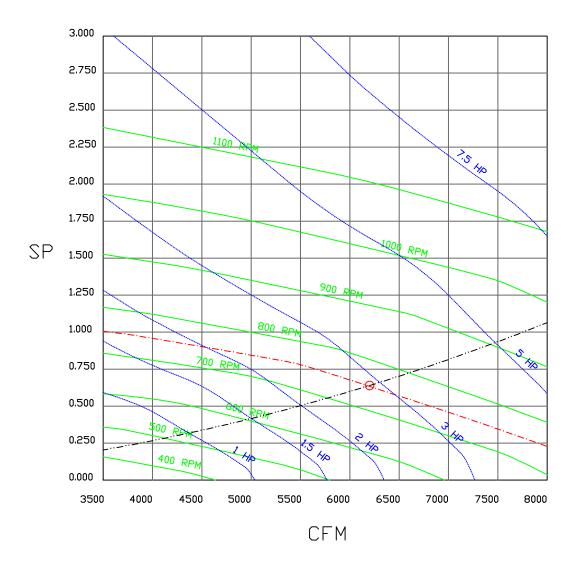






JOB			
LOCATI	ON		
DATE	08/01/2018	JOB #	
DWG #	TK3	DRAWN BY	
REV.		SCALE	

6200 CFM, 0.639 SP @ 750 RPM and 2.745 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"	

