



Order # 3727311 - NAKS Belt Drive TK-USBI Utility Sets

Fan #3 TK-USBI-13BD-RM (256 lbs.)  
Tag: 2000 1.5hp/1ph-208V

Belt Drive Exhaust Only Unit With 13.750" Utility Set Exhaust Fan w/  
2" Grease Drain. Clockwise Rotation When Looking At Inlet.

**Exhaust Motor:**

Model CK56HB02C01-60HZ, 1.500 HP, 1 Phs, 208 V, 60Hz, 6.7 FLA,  
ODP (Open Drip Proof)

**Exhaust Motor Pulleys:**

<u>Part Type</u>	<u>Qty</u>	<u>Browning #</u>	<u>Turns Out</u>
Belt	1	AX37	
Blower Pulley	1	AK32H	
Bushing	1	H-1	
Motor Pulley	1	1VL40 x 5/8	1.0

**Exhaust Performance:**

Volume: 2000 cfm  
RPM: 1842  
TS: 6631 ft/min  
SP: 1.300" w.g.  
BHP: 1.048  
Discharge Velocity: 1751 FPM  
Altitude: 0'  
Ambient Temp: 70°F

**Exhaust Installation Information:**

Unit Main Input: 8.4 Amps MCA, 15 Amps MOP, 208 V, 14 AWG Wire  
Min.  
Exhaust Unit Voltage: 1 phs 208 V 60Hz



**Construction Features**

Use with General Ventilation (UL705) and for Restaurant Duty (UL762) • Vented Motor Cover and Continuously Sealed Housing for added weather protection • Scroll and Motor Compartment Connected for added Structure • Easily Accessible Clean Out Door and Motor Access from 3 Sides • Standard 2" Grease Drain • Standard Emergency Disconnect Switch • Standard Heat Slinger and Heavy Duty Pillow Block Bearings for Belt Drive option • Standard Shaft Seal for Belt Drive option • Standard Pivot Plates for easy Belt Adjustment • Double Groove Pulleys standard for 2 HP and Above Motors • Discharge Outlet Flanges Available on All Sizes • Temperature Ratings - Aluminum Wheel, 350 degrees F •

**Selected Options:**

- BI13 - 24" High Discharge Extension Assembly.
- BI - Discharge Orientation - Vertical Upper Left - CW Looking At Inlet.
- BI13 - 14" Flanged Grease Duct Connection.
- Grease Cup for Utility Sets. Option for Utility Sets.

***EXHAUST FAN INFORMATION***

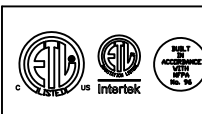
FAN UNIT NO.	TAG	FAN UNIT MODEL #	CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS.)	SONES
1	2000 1.5hp/1ph-208V	TK-USBI-13BD-RM	2000	1.300	1842	1.500	1.0480	1	208	6.7	1751 FPM	256	18

***FAN OPTIONS***

FAN UNIT NO.	TAG	OPTION (Qty. - Descr.)
1	2000 1.5hp/1ph-208V	1 - BI13 - 24' Discharge Extension.
		1 - BI - Discharge Orientation Vertical Upper Left - CW Inlet Side.
		1 - BI13 - Inlet Connection Standard 14' Flanged Grease Duct.
		1 - Utility Set Grease Cup

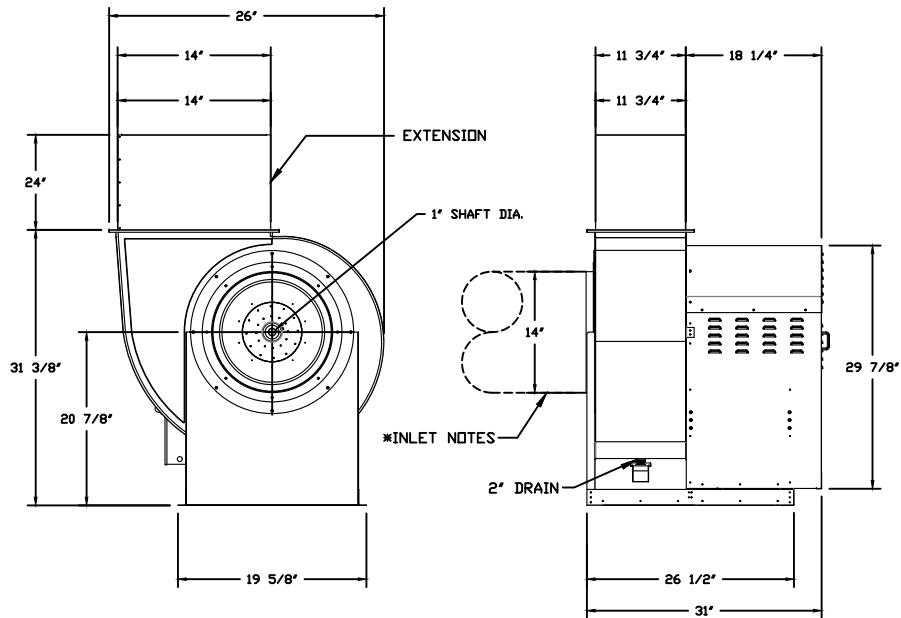
***FAN ACCESSORIES***

FAN UNIT NO.	TAG	EXHAUST		
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT
1	2000 1.5hp/1ph-208V	YES		



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

(2000 1.5HP/1PH-208V) - TK-USBI-13BD-RM EXHAUST FAN



**FEATURES:**

- ROOF MOUNTED FANS
- UL705
- UL762 AND ULC-S645 (RESTAURANT MODEL)
- HIGH HEAT OPERATION DIRECT DRIVE 350°F (176°C)
- HIGH HEAT OPERATION BELT DRIVE 350°F (176°C)
- HEAT SLINGER
- WEATHERPROOF DISCONNECT
- GREASE CLASSIFICATION TESTING
- 2" DRAIN
- MOTOR WEATHER COVER
- FULLY SEALED SCROLL HOUSING
- SCROLL ACCESS DOOR
- FLANGE 1 1/4" - 11 THRU 20.
- FLANGE 2" - 24 THRU 36.

**OPTIONS**

- BI13 - 24" DISCHARGE EXTENSION.
- BI - DISCHARGE ORIENTATION VERTICAL UPPER LEFT - CW INLET SIDE.
- BI13 - INLET CONNECTION STANDARD 14" FLANGED GREASE DUCT.
- UTILITY SET GREASE CUP.

**NORMAL TEMPERATURE TEST BELT DRIVE**  
 EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 350°F (176°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

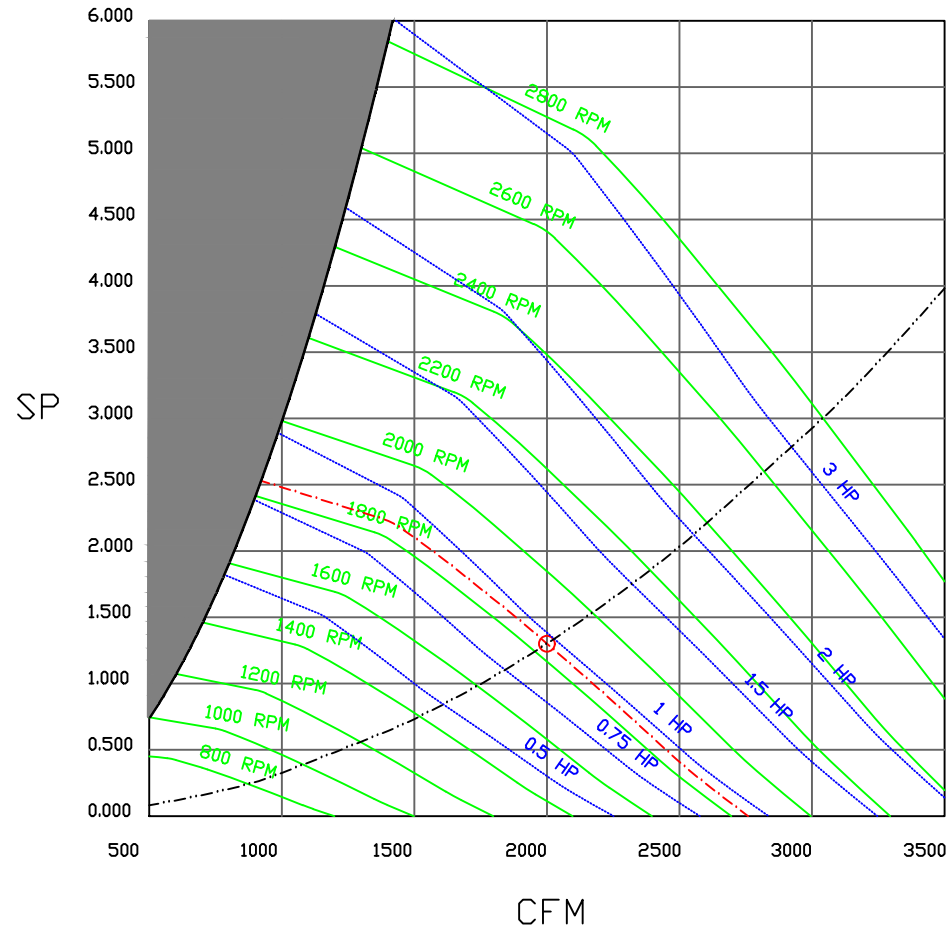
\* INLET NOTES:  
 LENGTH OF THE STRAIGHT DUCT ON THE INLET TO BE 3 TIMES THE EQUIVALENT DUCT DIAMETER BEFORE CONNECTING TO ANY FITTINGS SUCH AS ELBOWS TO AVOID SYSTEM EFFECT.



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

(2000 1.5hp/1ph-208V) - EXHAUST PERFORMANCE CURVES.

2000 CFM, 1.3 SP @ 1842 RPM and 1.048 BHP at 0 feet and 70 deg F  
 \* Please note that these curves were adjusted for job specific temperature and altitude.



JOB	
LOCATION	
DATE	JOB #
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# Exhaust Fan Wiring

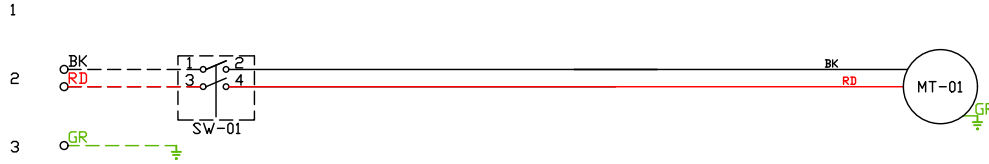
JOB *NAKS Belt Drive TK-USBI Utility Sets*

DRAWING NUMBER

SHIP DATE

MODEL **TK-USBI-13BD-RM**

## Installed Options



Component Identification		
Label	Description	Location
MT-01	Fan Motor	[2]
MT-02	Damper Motor	[2]
SW-01	Main disconnect switch	[2]

**MOTOR INFO**  
EXHAUST 1.5HP-208V-1P-6.7FLA

**ELECTRICAL INFORMATION**  
MOTOR/CTRL MCA: 8.4A  
MOTOR/CTRL MCB: 15A

**NOTES**  
- - - - DENOTES FIELD WIRING  
———— DENOTES INTERNAL WIRING

**WIRE COLOR**

BK - BLACK	YW - YELLOW
BL - BLUE	GR - GREEN
BR - BROWN	GY - GRAY
OR - ORANGE	PR - PURPLE
RD - RED	PK - PINK
WH - WHITE	