



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

Fan #9 TK-USBI-24BD-RM (678 lbs.)

Tag: 4200 2hp/1ph-208V

Belt Drive Exhaust Only Unit With 24.750" Steel Wheel. Utility Set Exhaust Fan w/ 2" Grease Drain. Clockwise Rotation When Looking At Inlet.

Exhaust Motor:

Model CK56HB02B01-60HZ, 2.000 HP, 1 Phs, 208 V, 60Hz, 9.5 FLA, ODP (Open Drip Proof)

Exhaust Performance:

Volume: 4200 cfm

RPM: 876

TS: 5676 ft/min

SP: 1.200" w.g.

BHP: 1.893

Discharge Velocity: 1392 FPM

Altitude: 0'

Ambient Temp: 70°F

Exhaust Installation Information:

Unit Main Input: 11.9 Amps MCA, 20 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 •

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Selected Options:

- BI24 - 24" High Discharge Extension Assembly.
- BI - Discharge Orientation - Vertical Upper Left - CW Looking At Inlet.
- BI24 - 24" Flanged Grease Duct Connection.
- Grease Cup for Utility Sets. Option for Utility Sets.

EXHAUST FAN INFORMATION

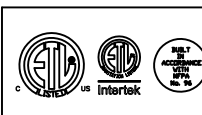
FAN UNIT NO.	TAG	FAN UNIT MODEL #	CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS.)	SONES
1	4200 2hp/1ph-208V	TK-USBI-24BD-RM	4200	1.200	876	2.000	1.8930	1	208	9.5	1392 FPM	678	15.9

FAN OPTIONS

FAN UNIT NO.	TAG	OPTION (Qty. - Descr.)
1	4200 2hp/1ph-208V	1 - BI24 - 24' Discharge Extension.
		1 - BI - Discharge Orientation Vertical Upper Left - CW Inlet Side.
		1 - BI24 - Inlet Connection Standard 24' Flanged Grease Duct.
		1 - Utility Set Grease Cup

FAN ACCESSORIES

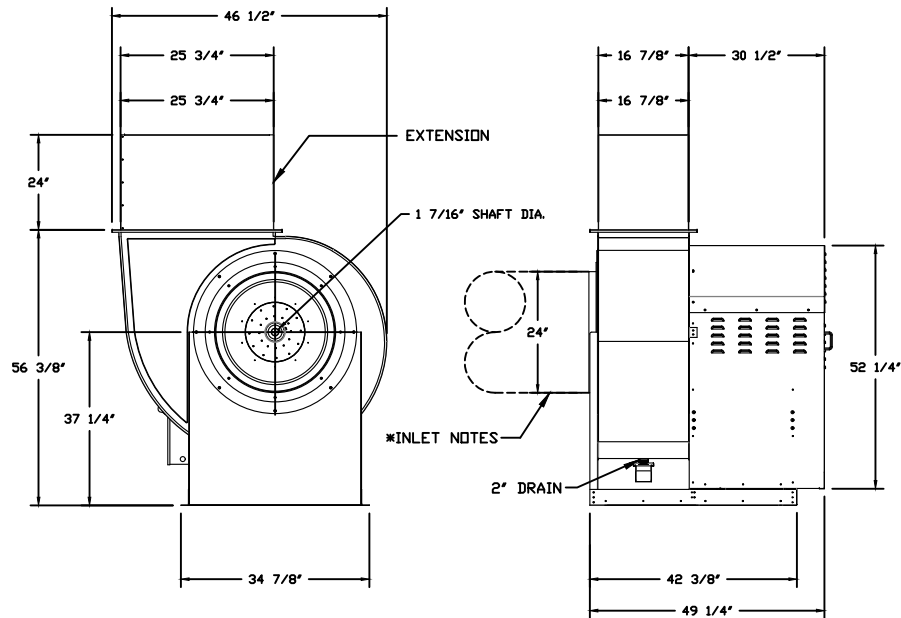
FAN UNIT NO.	TAG	EXHAUST		
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT
1	4200 2hp/1ph-208V	YES		



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

(4200 2HP/1PH-208V) - TK-USBI-24BD-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

BI24 - 24" DISCHARGE
EXTENSION.
BI - DISCHARGE ORIENTATION
VERTICAL UPPER LEFT - CW
INLET SIDE.
BI24 - INLET CONNECTION
STANDARD 24" 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.



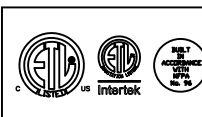
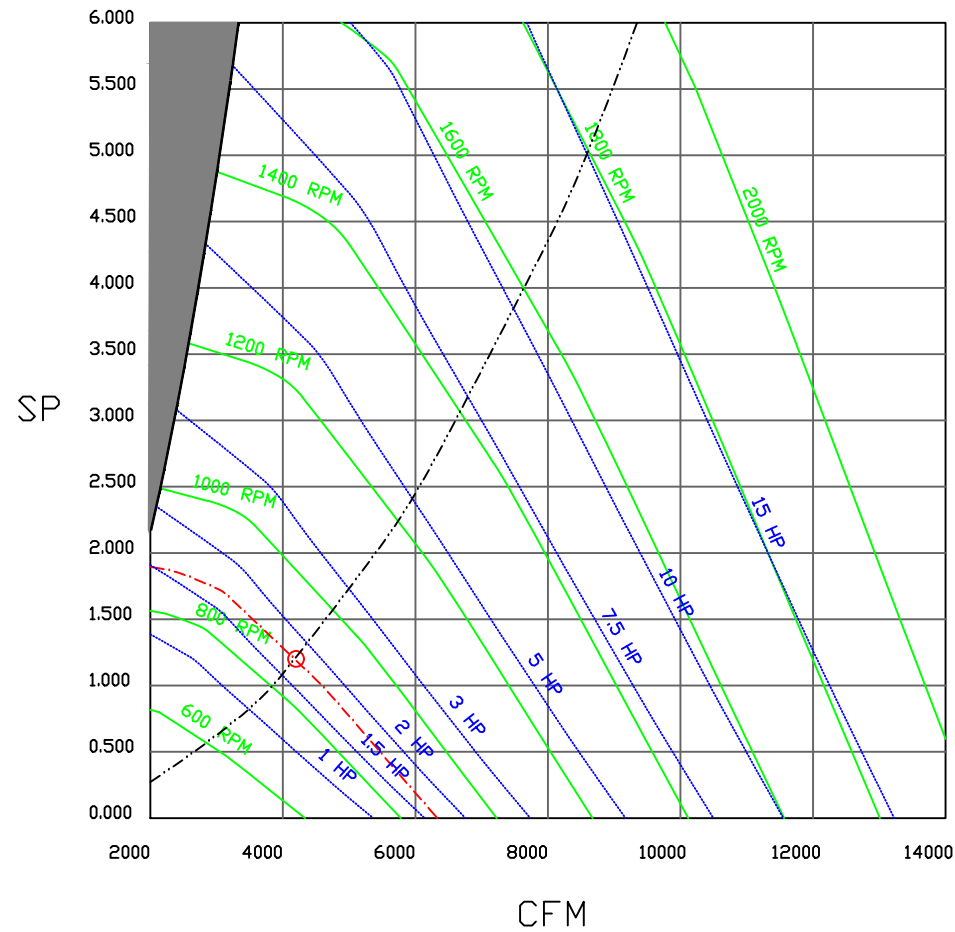
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(4200 2hp/1ph-208V) - EXHAUST PERFORMANCE CURVES.

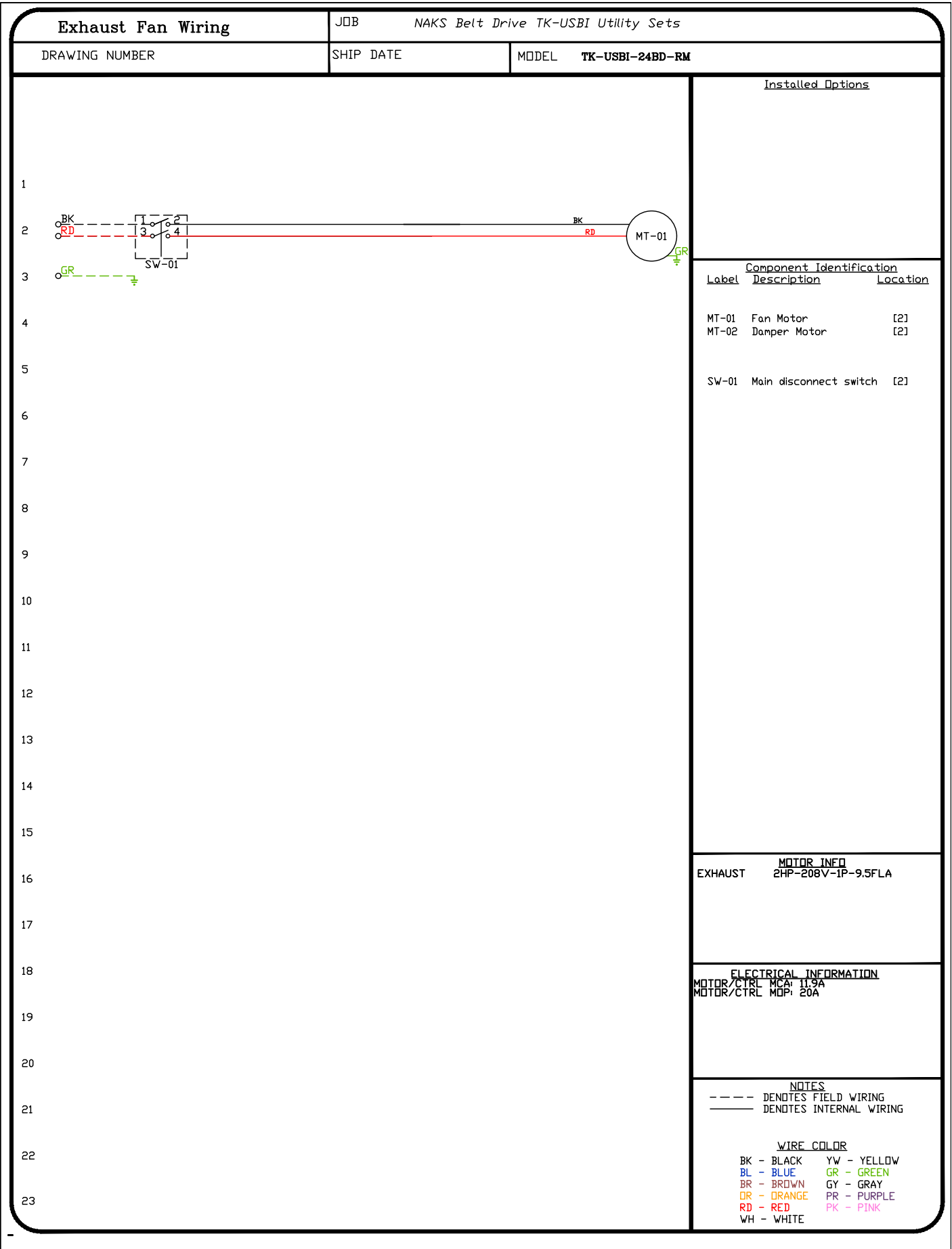
4200 CFM, 1.2 SP @ 876 RPM and 1.893 BHP at 0 feet and 70 deg F

* Please note that these curves were adjusted for job specific temperature and altitude.



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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	2HP-208V-1P-9.5FLA

ELECTRICAL INFORMATION	
MOTOR/CTRL	MCA: 11.9A
MOTOR/CTRL	MOP: 20A

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	