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AERZEN Reference Number: E02-43709
 Re: Lincoln, RI

26-Sep-19

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<p>To: Michael Andrus Firm - BETA Group email - mandrus@beta-inc.com phone - (401) 333-2382</p>
<p>AERZEN Representative Info: Name - Jim DeLuca of Aqua Solutions e-mail - jdeluca@aquasolutionsinc.net phone - (508) 947-5777</p>

<p>AERZEN Proposal Prepared By: Name - Eric Bennett email - eric.bennett@aerzen.com phone - (484) 288-6366</p>
<p>AERZEN Regional Manager: Name - Eric Bennett e-mail - eric.bennett@aerzen.com phone - (484) 288-6366</p>

This scope of supply does NOT include the following items: External Controls, Isolation Valves and Installation Hardware.

Grit Blowers

Model: GM 3S.

Performance Data:

		Design	Min
Intake volume, handled at intake condition	icfm	100	17
Volume handled at normal condition	scfm	90	15
Relative humidity	Φ	80%	80%
Intake pressure (abs.)	psia	14.67	14.67
Pressure difference	psig	5.63	5.63
Intake temperature	°F	100	100
Discharge temperature	°F	181	274
Main rotor speed	rpm	3,693	1,352
Motor Speed	rpm	3,500	1,281
Power consumption at coupling	bHp	3.9	1.3
Motor Rating	HP	5	
Tolerance on flow & power	± 5 %		
Sound pressure level w/o enclosure	dB(A)	91	
Sound pressure level w/ enclosure measured in free field at 3ft. distance from the outline of the unit (tol. ± 2 dB(A)).	dB(A)	64	

Weights & Dimensions:

Discharge connection	CS ANSI	2"
Blower pkg weight	lbs.	503
Envelope dim.*	LxWxH in.	32 x 32 x 42
Cooling Fan	shaft driven	shaft driven

* non binding dimensions includes, inlet filter silencer, relief valve, check valve, and flex connector



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Grit Blowers

GM 3S.

Aerzen Generation 5 Delta Blower Package consists of the following components, assembled in our factory.

- Aerzen Rotary Lobe Blower GM Series
- base frame with integrated reactive type silencer
- hinged motor support as automatic belt tensioning device
- set of vibration isolating mounts
- intake filter-silencer
- narrow V-belt drive with guard
- spring loaded pressure relief valve
- discharge manifold with externally accessible integrated check valve
- flexible connector with clamps for schedule 40 pipe, discharge

Scope of Supply

- 2 compact blower package as listed above
- 2 electric motor per NEMA, TEFC, 460v / 60Hz, premium efficiency, T-Stat
- 2 sound enclosure with integral shaft driven cooling fan
- 2 set of instrumentation (2.5" gauges: P1, P2, T2 with High Temp Switch), terminal strip

Factory Services

- 2 ISO-1217 test report(s)
- 2 factory set PRV to 10.9 psig

Onsite Manufacturer Services

- 1 trip(s), 1 day(s) total installation inspection, startup & testing

Spare Parts

- 2 air filter, 2 belt set, 1 Delta Lube 1-Gal,

Freight & Packaging

- 1 freight to jobsite
- 2 domestic packaging

TOTAL for 2 unit(s) c/o: Jim DeLuca of Aqua Solutions

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Pricing: DAP Jobsite

Terms: This offer is subject to Aerzen Standard Terms and Conditions (A2-001-USA January 2009)

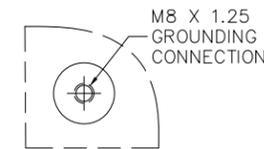
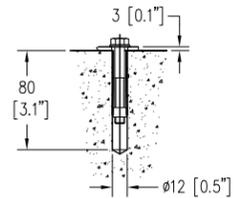
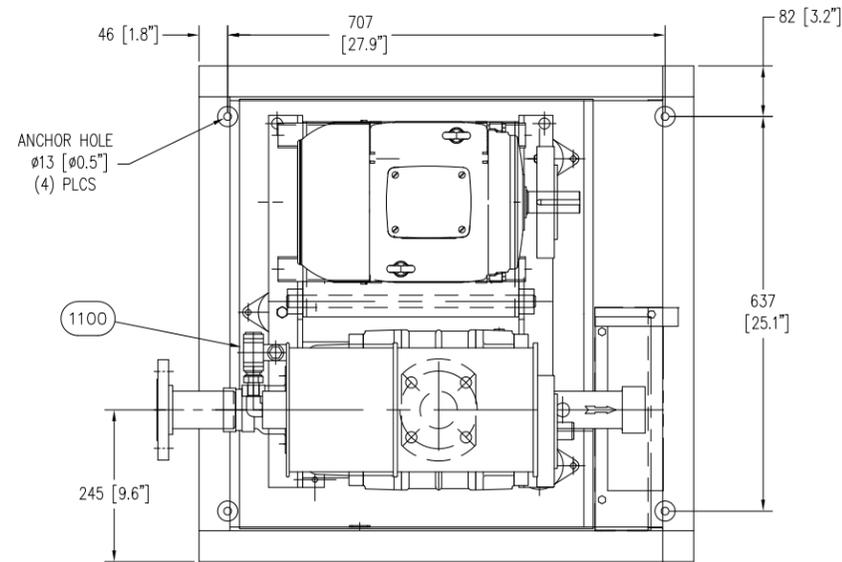
Warranty: 24 months after start up or 30 months after delivery, which ever comes first on Aerzen package*

*Maintenance must be performed per the Instruction Manual using Aerzen spare parts.

*Equipment not manufactured by Aerzen will carry the manufacturer's standard warranty.

ITEM	QTY	DESCRIPTION	DESCRIPTION 2
100	1	BLOWER TORSO	GM3S, DN50
110	1	PRESSURE RELIEF VALVE	
200	1	SOUND ENCLOSURE	
300	1	ELECTRIC MOTOR	SHOWN WITH A 180 NEMA MOTOR
310	1	MOTOR MOUNTING	
320	1	BELT DRIVE	
400	1	BELT GUARD	
500	1	COOLING FAN	
600	1	DISCHARGE CONNECTION	2"-150# ANSI FLANGE
800	1	INSTRUMENTATION	
1100	1	UNLOADING VALVE	(OPTIONAL)

PLAN VIEW



SOUND ENCLOSURE ANCHOR
RECOMMENDATION
SHOW WITH OPTIONAL ANCHOR
AERZEN PART NO. 120813000 (LIEBIG AB12/15)
2X SCALE

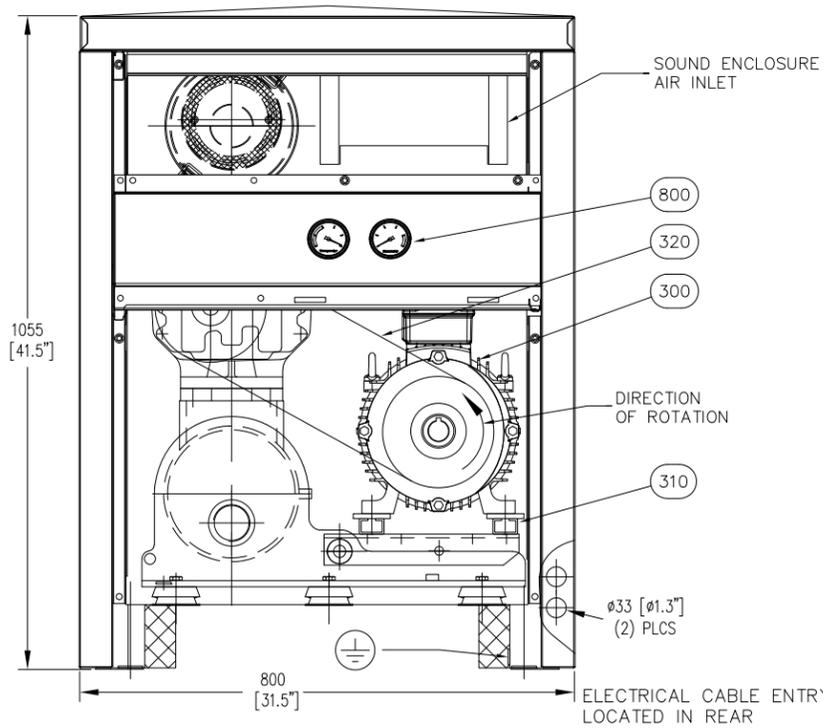
EARTH GROUND
MATL: 304 SS
4X SCALE

ROOF REMOVABLE BY
SLIDING FORWARD
& LIFTING UP

REPLACEABLE
AIR FILTER

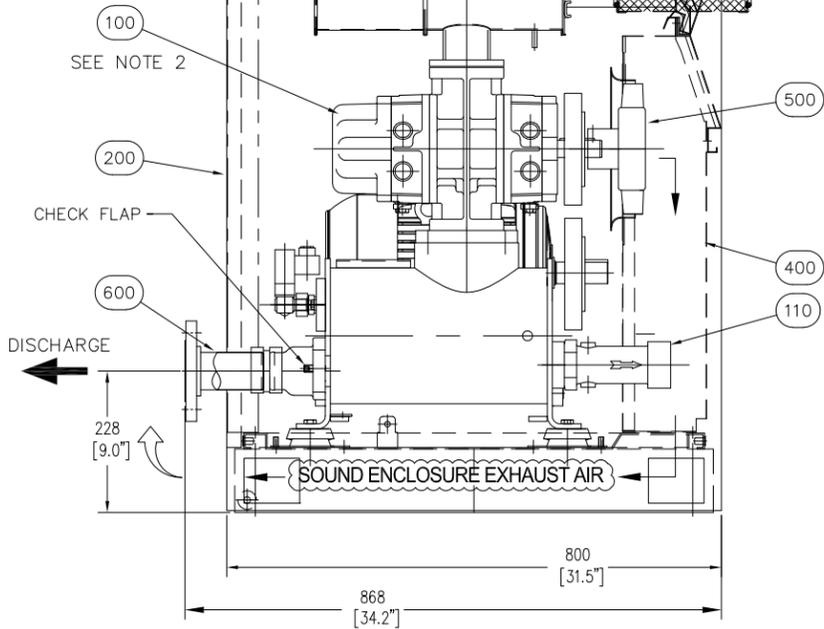
REMOVABLE PANEL

REMOVABLE PANEL



FRONT VIEW

REMOVABLE PANEL



NOTES:

- TOLERANCE ON DIMENSIONS = $\pm 12\text{mm}$ [0.5"]
- ITEM 100 (BLOWER TORSO) INCLUDES BLOWER STAGE, INLET SILENCER, BASE FRAME/DISCHARGE SILENCER, VIBRATION ISOLATORS, & CONNECTION HOUSING WITH CHECK FLAP
- CUSTOMER PIPING TO BE INDEPENDENTLY SUPPORTED
- LIFT PACKAGE FROM BLOWER SIDE THROUGH FORK LIFT POCKETS IN BASE OR LIFTING HOLES IN CORNER OF BASE USING SPREADER BAR
- SEE JOB DATA SHEETS FOR PERFORMANCE DATA, PART NUMBERS, TOTAL PACKAGE WEIGHT, INSTRUMENTATION, ANY OTHER OPTIONAL EQUIPMENT & OWNERS MANUAL

WEIGHT

BLOWER PACKAGE (LESS MOTOR)	187 kg.	411 lbs
ELECTRIC MOTOR (ITEM 300)	-	-
TOTAL (WET WEIGHT)		

	AERZEN USA CORPORATION 108 INDEPENDENCE WAY, COATESVILLE, PA. PH: (610) 380-0244 FX: (610) 380-0278 WWW.AERZENUSA.COM	CLASS 1 	
		SCALE:-	SHEET: 1 / 1
DRAWN BY: JRH CHECKED BY: RJP APPROVED BY: - DRAWING NO.: GB-006945-P4031000 NAVISION PRL.	TITLE: GA DRAWING GM3S, DN50, G5 F3 SOUND ENCL. 2"-150# ANSI (OUT) PRESSURE	REV. NAME DATE - - - - - - - - - - - - - - - - - -	REV. NAME DATE - - - - - - - - - - - - - - - - - -
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