

PROPRIETARY INFORMATION

THIS DRAWING IS THE PROPERTY OF AJA INTERNATIONAL, INC. AND MAY NOT BE REPRODUCED OR DISCLOSED TO THIRD PARTIES WITHOUT WRITTEN AUTHORIZATION OF AJA INTERNATIONAL, INC. VIOLATIONS WILL BE SUBJECT TO PROSECUTION.

MATERIAL:

FINISH: 32 ✓ OR BETTER

NOTES:

1. BREAK ALL SHARP EDGES
2. NO SULPHUR BASED CUTTING FLUIDS
3. NO SCRATCHED, DINGS, OR BURRS, APPEARANCE IS IMPORTANT

REV DATE

#

REVISION DESCRIPTON

BY

DRAWN BY: W.PRYOR

DIMENSIONS: INCHES

AJA INTERNATIONAL, INC.
 PO BOX 246 / 809 COUNTRY WAY
 NORTH SCITUATE, MA 02060
 781-545-7365/ FAX: 781-545-4105
 E-MAIL: TOPGUN@AJAINT.COM

DRAWING #: SYSTEM FOOTPRINT

REV#: 0

CHECKED BY:

TOLERANCE DEFAULT VALUES

TITLE: ATC2000 FOOTPRINT - 4989

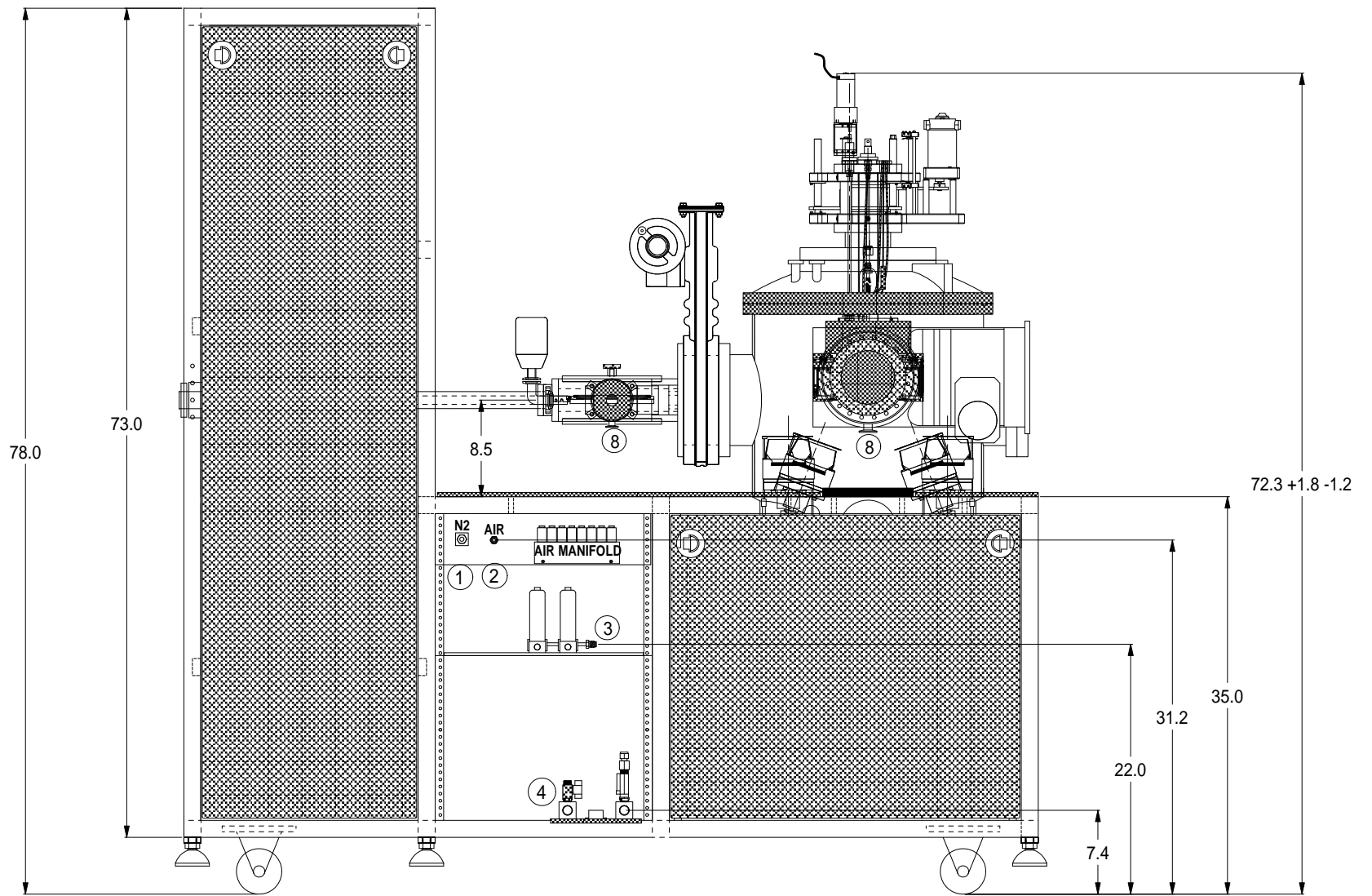
SCALE: - - - -

DATE: 02/25/08

0.0 ±0.05 0.000 ±0.005
 0.00 ±0.01 ANGLES ±0.5°

FILE: UNIVERSITY OF ROCHESTER. FCW

SHEET: 1/2



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SYSTEM UTILITIES CHECKLIST

 AJA INTERNATIONAL, Inc., P.O. BOX 246, 809 COUNTRY WAY, NORTH SCITUATE, MA 02060 USA TEL: 781-545-7365 / FAX: 781-545-4105 / e-mail: topgun@ajaint.com / web: www.ajaint.com		Checklist reviewed by: Chris Butler
Date:	10/16/07	
Contact Personnel:	Dr. Chris C. Striemer	
Company/Univ.:	University of Rochester	
Address:	Dept. of Electrical and Computer Engineering	
City/ST/ZIP/Country:	Rochester, NY 14627	
TEL/FAX/e-mail:	Tel: 585-748-5980 E-mail: striemer@ece.rochester.edu	
QUOTE FILE NAME:	ATC-2000-Rochester-Striemer-10-16-07	

PURPOSE OF THIS DOCUMENT: To provide our deposition system customers with a complete list of utility requirements, to define the connections / terminations on the AJA tool, and to define the required fitting / tubing / connector required by the end user to properly hook up to the AJA tool. When the customer has completed his requirements he / she should check all appropriate boxes on this form and fax to AJA at 1-781-545-4105. At this point and not before, a service technician will be dispatched for system commissioning.

UTILITY REQUIREMENT	WHAT IS PROVIDED ON THE AJA TOOL	WHAT CUSTOMER MUST PROVIDE	COMPLETED
1. Vent Gas - Dry N2, 2 -7 PSI	(1) 3/8" brass swagelok fitting.	3/8" OD plastic(nylon or poly), brass or S/S tubing. A pressure gauge/regulator with low range 0-15psi is recommended.	
2. Compressed Dry Air, 80 - 100 PSI	(1) 1/4" quick-disconnect fitting.	1/4" OD plastic tubing(nylon or poly) rated for pressure required. A pressure regulator with moisture and particle filtration is recommended.	
3. Process Gas, 5 - 10 PSI	(2) 1/4" S/S swagelok fittings.	1/4" OD S/S tubing recommended or PTFE. A 2-stage pressure regulator is required if using high pressure gas bottle.	
4. Cooling Water, 8 - 12 LPM, 10 - 25 C, 45-70 PSI, 45psi minimum differential is required. Water must be clean and filtered < 150 micron.	(2) 1/2" female NPT fittings. (IN, OUT)	1/2" male NPT fittings. 1/2" ID reinforced pvc or poly -tubing is recommended. A recirculating chiller is recommended. This allows the user to control the water quality, pressure and flow rate.	
(Recirculating Chiller Option) Contact AJA for chiller ordering information.	A chiller installation packed can be ordered. Consists of reinforced tubing, hose fittings, clamps and electrical cable.	208-230 VAC, 15 Amp, single phase outlet. Or: 208-230 VAC 20 Amp single phase outlet. Contact AJA for chiller sizing information.	
5. Main Mechanical Pump Exhaust	(1) NW (KF) -25 is located on the pump. An NW 25 to 1" ID tube adapter is also provided.	1" ID flexible tubing can be used. Proper ventilation must be installed.	
6. Load-Lock Mechanical Pump Exhaust	(1) NW (KF) -25 is located on the pump. An NW 25 to 1" ID tube adapter is also provided.	1" ID flexible tubing can be used. Proper ventilation must be installed.	
7. Input Power: EMOC 360, 208 V, 60Amp, 3-phase with ground	(1) Special removable 60 amp 4-pin connector. Pin 1,2,3,4 = L1,L2,L3, pin 4 not used. A 11/4" female NPT is located on the connector for attaching a strainrelief.	60 amp rated, SO type cable or cable run in flexible conduit. Connection to the special connector is the responsibility of the customer.	
8. Main chamber and Load-Lock turbo foreline connections.	The Main chamber NW 25 and Load-Lock NW 25 connectors and S/S flexible forelines are provided by AJA.	Note: if the mechanical pumps will be located away from the system then extended forelines must be provided by the customer.	
NOTE: PHONE LINE.		A phone line that can receive in-coming calls should be near the system during installation.	
NOTE: He Leak Check Instrument.		A helium leak check instrument should be available at the time of installation (if needed).	
UNLOADING CAPABILITY AND EQUIPMENT	System is shipped in wooden crate. One end of the crate can be assembled as a ramp. This can be used to facilitate removal of the system from the crate.	You must have the capability and equipment to accept and off-load the crated system, then be able to remove it from the crate and transport it to your lab/room. Contact AJA with this information.	

CUSTOMER SIGN OFF

I hereby confirm that the system has been uncrated and is in place, that all customer utility requirements have been completed and that our facility is ready for system commissioning by an AJA Service Manager / Technician.

Authorized Signature:	Telephone Number:	E-Mail Address: