

MOAS Operation and Maintenance Manual

Installation • Startup • Everyday care

A practical guide for owners, operators, installers and service personnel. Keep this manual with the equipment and record all maintenance.



Figure 1 MOAS cabinet and external solution container

MODEL 32248 / SEPTEMBER 2026 / OWNER REVIEW EDITION

This edition carries the confirmed current settings and installation requirements. Technical questions retained for review are collected on the final page.

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Read this first

MOAS treats cooking-exhaust odors and smoke by delivering a fine mist of diluted Molitron solution into the exhaust duct. Correct installation, cooking-period settings and regular maintenance are all needed for the system to perform as intended.

Who does what

Reader	Responsibility
Owner or operator	Check solution use each day; perform and record the monthly tasks; use authorized products; keep this manual with the equipment.
Qualified installer	Install the cabinet, container, utilities, interlock, tubing and nozzles; complete the contractor checklist before factory startup.
Qualified service personnel	Work on electrical components, controls, pump internals and faults requiring repair or replacement.

Before installation or maintenance

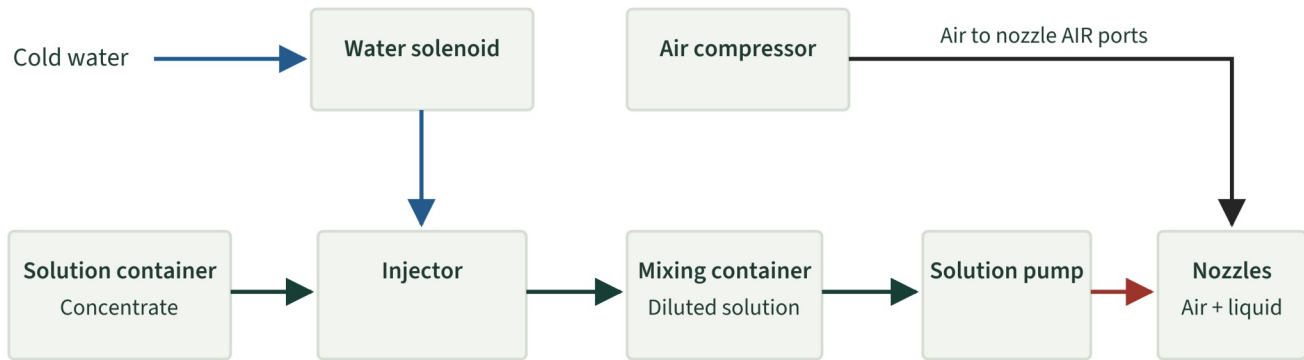
- Read the entire manual before installation. Installation must be performed by a qualified professional and follow applicable federal, state and local codes.
- Inspect the inside and outside of the shipment immediately. Report carrier damage to the carrier and check the supplied accessories.
- Keep the cabinet ventilated. Do not install it in an enclosed, unventilated closet. Protect finished space below against leaks from plumbing or equipment.
- The compressor carries a hot-surface warning. Avoid contact with hot surfaces.
- Always unplug the chemical pump before pump maintenance. Do not apply grease, oil or lubricant to the pump tube or housing.

Maintenance procedure review. The original task-specific precautions are retained in this edition. A complete MOAS shutdown, water/pressure-isolation and restart sequence remains an item on the final review page. No additional isolation sequence has been assumed.

See [Technical points for review](#) on page 30.

Understand the system

The two-nozzle arrangement serves exhaust volumes up to 6,000 CFM. MOAS may operate independently or with a Molitron EPFA filtration system. Place the misting nozzles near the hood and as far from the discharge as practical so the mist has time to act in the moving exhaust air.



A separate sensing tube operates the low-solution alarm.

The float inside the mixing container controls refill through a relay and timer.

Figure 2 How water, concentrate and air reach the nozzles

Two containers with different jobs

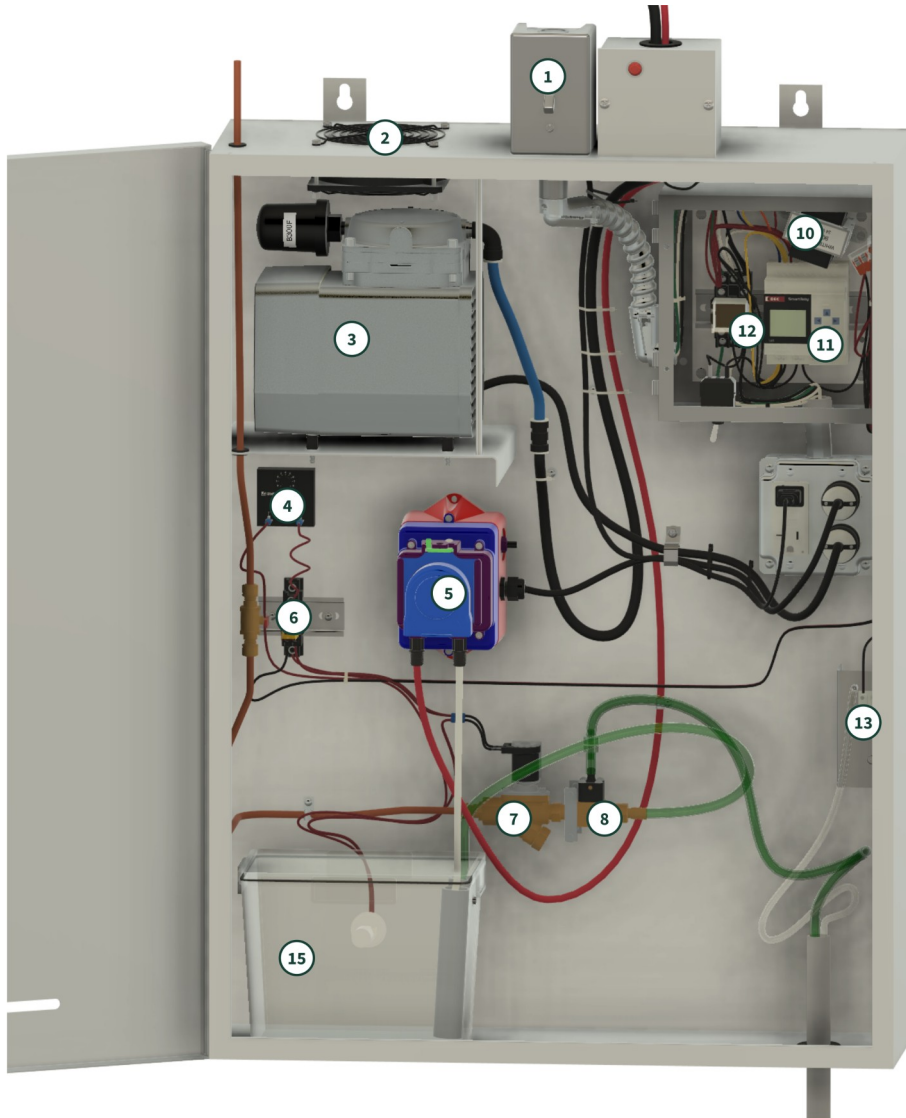
The external solution container holds the odor-neutralizing concentrate. It is part of every complete current MOAS setup and holds up to 10 gallons at its fill line. Its separate sensing tube operates the low-solution alarm.

The small mixing container inside the cabinet receives water and concentrate through the injector. Its float, relay, timer and solenoid control refill. The chemical pump draws the diluted solution from this container and sends it to the nozzles.

Two controls with different jobs

The cabinet-top power switch controls MOAS power. The manual/automatic toggle is on the control enclosure: automatic uses the SmartRelay cooking schedule; manual bypasses that schedule. The external exhaust interlock still governs operation in either mode.

Find the components



Numbers match the component guide. Item 9 is the wiring diagram.
Item 14, the check valve above the injector, is not separately marked in this model view.

Figure 3 Current cabinet component locations

Educational model view, not a construction wiring diagram. Wire routing and some small fittings are reconstructed from photographs. Match actual equipment labels when servicing.

Component guide

No.	Component	What it does
1	Power switch	Cabinet-top switch for MOAS power.
2	Cooling fan	Removes heat from the cabinet.
3	Air compressor and intake filter	Supply filtered air to the nozzle AIR ports.
4	Refill-delay timer	Delays water refill. Current range: 30 seconds–8 minutes; setting: 8 minutes.
5	Chemical solution pump	Moves diluted solution from the internal mixing container to the nozzles.
6	SPDT relay	Refill relay on the left cabinet wall; works with the mixing-container float and timer.
7	Water solenoid valve	Admits water when the refill control calls for it.
8	Injector	Draws concentrate into the incoming water. Its screw controls concentrate draw.
9	Wiring diagram	Reference drawing, not a physical part.
10	Transformer	Supplies 24 VAC control power from the 120 VAC supply.
11	IDEC SmartRelay	Maintains time and scheduled cooking periods.
12	3PDT relay	Control-enclosure relay used with the SmartRelay and system power circuit.
13	Low-solution pressure switch	Operates the external-container alarm circuit.
14	Check valve	Backflow-prevention component in the concentrate line above the injector.
15	Mixing container	Holds diluted solution; its float signals when to refill.

See [Parts and electrical reference](#) on page 22.

Plan and install

Check the shipment

Supplied item	Quantity or description
Exhaust interlock relay	1
Red polyethylene solution tubing	100 ft roll; ¼ in outside diameter
Black polyethylene air tubing	100 ft roll; ⅜ in outside diameter
Misting nozzles	2, with fittings and two stainless-steel mounting plates
Accessory bag	Manual, replacement pump-tube kit, welded-stud/nut/washer kit and two ¼ in cabinet lag bolts

Plan the location and services

Requirement	Current specification
Electrical branch circuit	120 VAC, 20 A, dedicated to MOAS; hardwired at the cabinet-top power switch.
Cold water	¼ in copper line to the top inlet; 80 PSI maximum.
Cabinet location	Wall mounted near the hood, with adequate ventilation and access.
External solution container	Standard equipment below the cabinet; up to 10 gallons at the fill line.
Nozzles	Two duct-mounted nozzles, near the hood for maximum dwell time.
Tubing route	100 ft maximum along each complete cabinet → tee → nozzle path.
Protective routing	Factory recommendation: 1 in protective conduit for the air and solution lines.

The interlock relay is mounted in an accessible location selected by the installing electrician. A separate building-water shutoff is recommended; the cabinet also has an internal shutoff.

Mount the cabinet and container

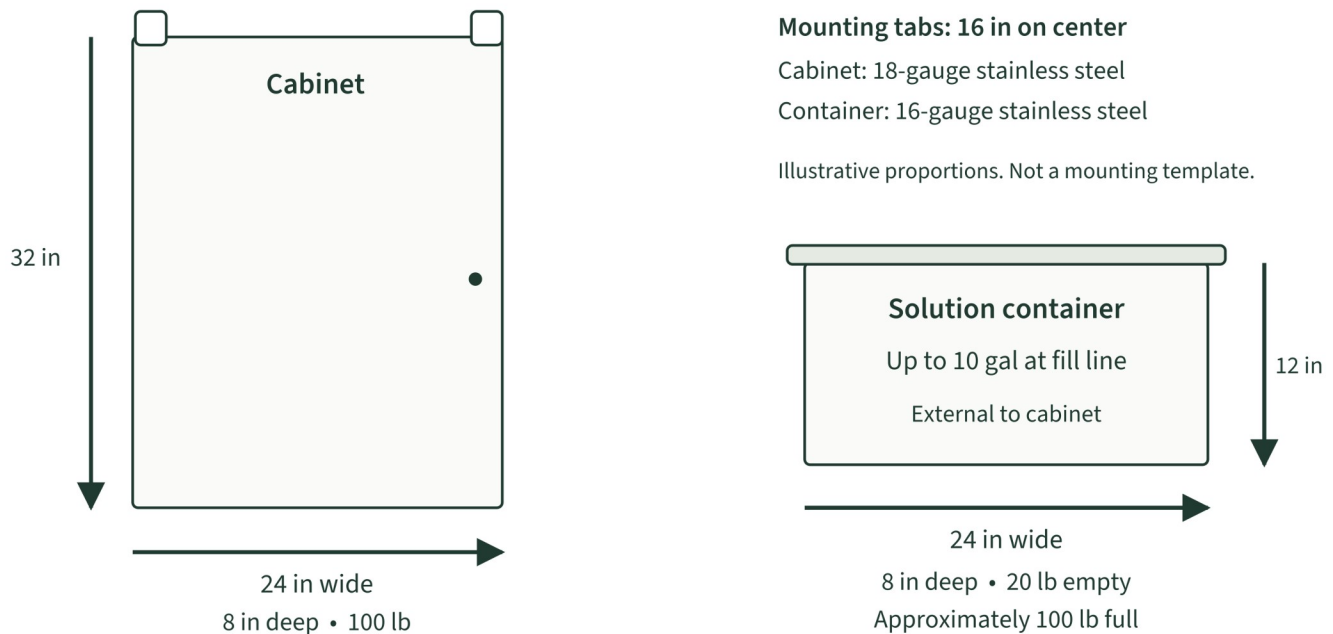


Figure 4 Cabinet and container dimensions

Secure the cabinet through its upper hanging tabs to wood studs using the two supplied $\frac{1}{4}$ in lag bolts. The hanging tabs are 16 in on center and have $\frac{1}{4}$ in keyholes. The external container also uses 16 in mounting centers.

The source arrangement shows $12\frac{1}{2}$ in between the cabinet bottom and the top of the container body, and $3\frac{1}{2}$ in between the container bottom and floor. These are shown arrangement dimensions, not newly specified minimum service clearances.

The cabinet bottom and container top each use a $1\frac{1}{4}$ in tube opening located 4 in from the back and 3 in from the right side. The supplied protective sleeve for the pickup and sensing tubes is $\frac{1}{2}$ in diameter and 30 in long. Specify a custom length when ordering if needed; the source recommends a length of 8 ft or less for best operation.

Keep the sliding container lid and its angled grip accessible for checking and refilling. Allow access to the cabinet door and cam latch. The top air inlet and cooling-fan opening must remain clear.

Connect water and electrical service

The installing plumber connects the ¼ in copper cold-water line at the top of the cabinet. The supply must not exceed 80 PSI. Inadequate water pressure may keep the injector from drawing concentrate; the source does not establish a minimum operating pressure.

The installing electrician hardwires the 120 VAC, 20 A dedicated MOAS circuit through the supplied exhaust interlock and cabinet-top power switch. The cabinet’s internal wiring is factory installed. Connect the interlock according to the label on the actual supplied relay.

How the interlock works

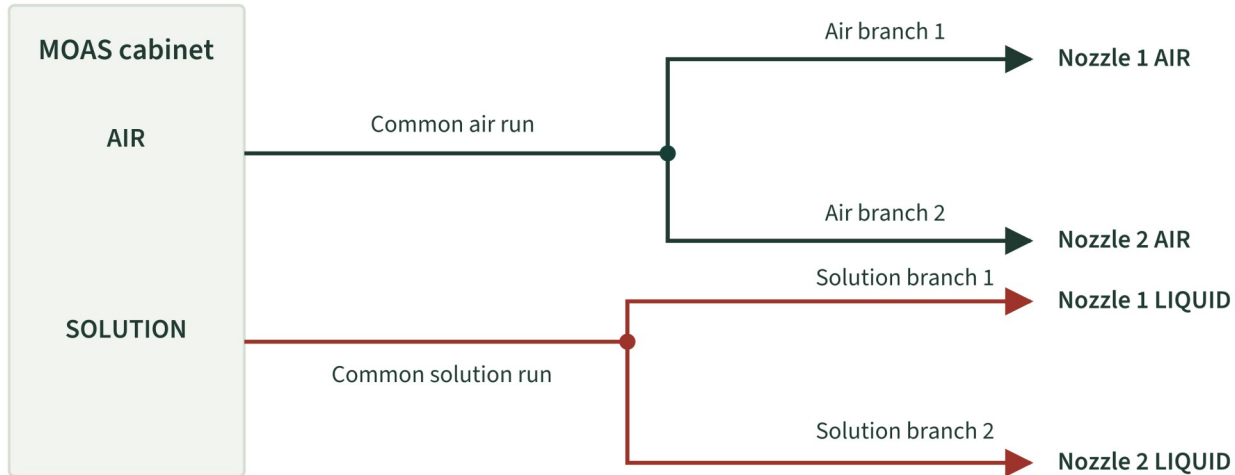
The exhaust-fan control energizes the interlock relay. The relay then closes the MOAS power path. This allows MOAS to operate with the exhaust fan and prevents MOAS operation when the fan is off. Manual mode bypasses the cooking schedule only.

Interlock label reference	Function shown in the supplied drawing
White / black	120 VAC coil input
White / brown	208–277 VAC coil input
White / blue	24 VAC or DC coil input
White / yellow	Coil common
Yellow	Contact common: line from the dedicated MOAS circuit
Orange	Normally open contact: switched line to MOAS
Blue	Normally closed contact: not used
White neutral	Direct neutral path to MOAS

The source prefers the 120 V control supply/common associated with the hood switch and exhaust starter coil. It also shows a higher-voltage coil alternative. Verify the actual relay model, rated coil leads and fan control before field wiring; the label reference above does not select the site circuit. Interlock enclosure: 4 in wide × 7 in high × 2½ in deep.

Route the air and solution tubing

Connect black $\frac{3}{8}$ in outside-diameter tubing to each nozzle port marked AIR. Connect red $\frac{1}{4}$ in outside-diameter tubing to each port marked LIQUID. Route the opposite ends through the top cabinet tubing opening to the corresponding cabinet air and solution lines.

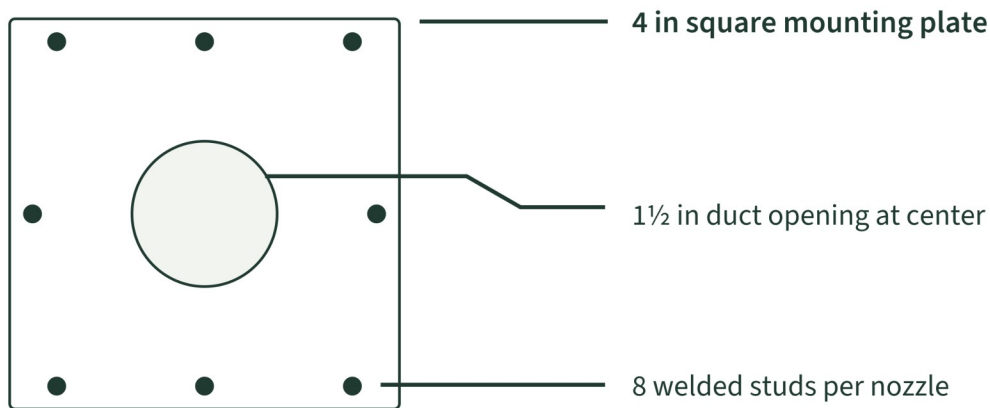


Each cabinet → tee → nozzle path: 100 ft maximum. Pair branches within each circuit.

Figure 5 Measure complete routes and compare corresponding branches

- Measure along the actual routed path from cabinet, through tee, to nozzle. Each complete path is limited to 100 ft.
- Keep the two tee-to-nozzle air branches relatively close in length. Apply the same comparison separately to the two solution branches. Exact equality is not required.
- Air and solution branches do not have to match one another. No numeric branch-length tolerance is specified.
- Protect the tubing in the factory-recommended 1 in conduit. Check all tubing connections for leaks.

Install the misting nozzles



Layout is explanatory. Use the supplied plate to locate the mounting points.

Figure 6 Nozzle mounting-plate preparation

- 1.** Select positions near the hood so the mist has the greatest practical travel distance before exhaust discharge. The source arrangement places two nozzles on opposite sides of the duct, spraying inward.
- 2.** Position a supplied 4 in square plate and mark its center and eight mounting locations.
- 3.** Remove the plate. Make the 1½ in duct opening at the marked center and weld the eight mounting studs for that plate.
- 4.** Attach the nozzle to the plate. Mount the assembly over the duct opening using the supplied nuts and washers.
- 5.** Connect the black air tube to AIR and the red solution tube to LIQUID. Check all fittings. Keep the outside mounting plate removable for service.

The diagram explains the preparation sequence. It is not a fabrication template or a site-specific duct detail.

Commission the system

Before startup, finish every electrical connection, the cold-water connection, all air/solution tubing and the nozzle installation. Complete the contractor checklist before startup by a factory representative.

1. Open the building water-supply valve, then the water ball valve inside the left side of the cabinet.
2. Unplug the three component cords from the 4 × 4 in receptacle box inside the cabinet: the solution pump, air compressor and cooling fan.
3. Open the internal control-enclosure cover. Locate the IDEC SmartRelay display, arrow buttons, Esc and OK.
4. Turn the cabinet-top power switch ON. With the exhaust interlock supplying power, the display shows time and date. Press Esc. The menu includes Stop, Program, Setup, Network and Diagnostics. If Start is displayed, select it and press OK.
5. Set the clock and run periods as described on the next page. Leave Pulse set to off.
6. During a scheduled run period, the refill controls open the water solenoid after the configured delay. The mixing container fills and the float closes the water solenoid when full.
7. Plug in the solution pump, air compressor and cooling-fan cords. Full operation begins when solution and air reach the duct nozzles.

Automatic startup. Setting the clock during an active run period can start the refill sequence. The confirmed refill delay is 8 minutes.

See [Commissioning checklist](#) on page 28.

Set the clock and cooking periods

Set time and date

1. Press Esc. Use the down arrow to select Setup, then press OK.
2. Select Clock. Use the arrow buttons to set the time in 24-hour format and set the date.
3. Press OK four times to return to the time-and-date display.

After a power interruption, verify the clock. The source describes several days of reserve time and requires resetting time/date after more than 20 days without relay power.

Set run periods

Press Esc → Program → Set Parameter → RUN PERIODS. Toggle days with the arrow buttons and set the on/off times to the actual cooking periods. The source presets are retained below; both D1 and D2 are shown as 10:00 –14:00.

Period	Days shown	On	Off
D1	MTWTFSS	10:00	14:00
D2	MTWTFSS	10:00	14:00
D3	MTWTFSS	00:00	00:00

D3 at 00:00–00:00 is off / not set. On and off times are adjustable. Pulse must remain off; do not change it.

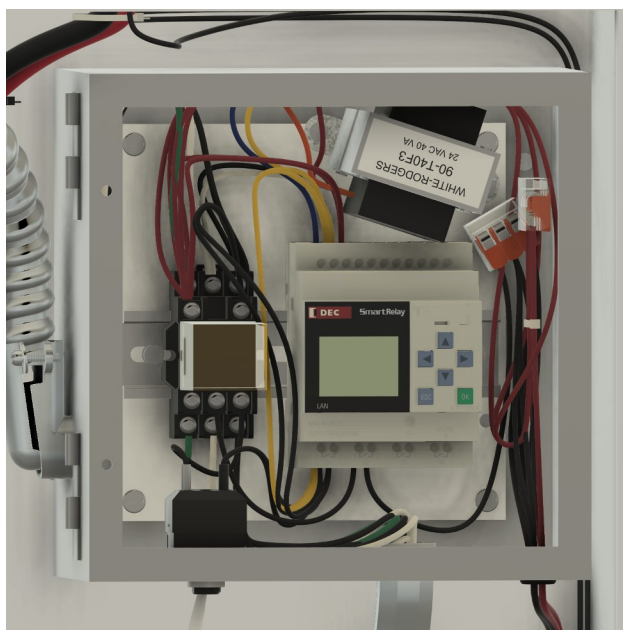


Figure 7 IDEC SmartRelay and control enclosure

Operate and adjust

Control	Use
Cabinet-top power switch	Turn ON for MOAS operation or OFF to stop MOAS power. This is separate from the manual/automatic toggle.
Automatic mode	The SmartRelay controls MOAS during the programmed cooking periods, subject to the exhaust interlock.
Manual mode	Provides continuous operation for troubleshooting or maintenance while the exhaust interlock permits it. It bypasses the SmartRelay schedule.
External exhaust interlock	Prevents MOAS operation when the exhaust fan is off. It remains applicable in both modes.

Injector adjustment

When the water solenoid opens, the injector draws a small amount of concentrate from the external container into the incoming water. The front volume-adjustment screw controls concentrate draw.

The factory screw position is normally ½ turn counterclockwise from fully closed. At this setting, the source gives approximate hourly use of 40 fluid ounces of water and 1 fluid ounce of concentrate. These are approximate usage values, not a guaranteed delivery rate.

Refill delay

The current timer range is 30 seconds to 8 minutes. Set it to 8 minutes. The timer is the approximately 2 in square black unit on the cabinet’s left side, above the refill relay. The delay reduces refill frequency and supports mixing. The source permits a shorter delay when more frequent refill is needed; the current reference setting remains 8 minutes.

Pump output control

The pump’s side control is a potentiometer. Fully counterclockwise turns the pump off; turning clockwise increases speed to 100% at the clockwise end. Scale graduations are approximate. Do not set the control within the gray area shown on the pump’s scale. The source does not specify a single factory percentage for MOAS.

Refill and low-solution alarm

Function	Trigger	What happens
Internal mixing-container refill	Float down / solution low	Refill relay de-energizes; timer runs; water solenoid opens after the delay.
Internal mixing-container refill	Float rises / container full	Refill relay energizes and the solenoid closes.
External concentrate alarm	Adequate sensed pressure	The used alarm contact path is open.
External concentrate alarm	Low sensed pressure	The alarm path closes and operates the buzzer/red light when control power is available.

The external container’s alarm indicates a low solution supply, described in the source as below approximately 2 gallons. Refill the container with authorized Molitron MOAS solution; do not exceed its 10-gallon fill line. The alarm continues until the low-level condition is corrected while control power is available.

If the alarm remains on after refilling

1. Disconnect the top of the ¼ in sensing tube from the black pressure-switch nipple.
2. Gently lift the PVC sensing assembly above the solution level. Clear or shake residual liquid from the bottom of the sensing tube.
3. Reconnect the top of the ¼ in tube to the pressure-switch nipple before placing the PVC assembly back into the solution.
4. Reinsert the assembly and check the alarm.

Optional remote alarm

An optional 24 V remote low-solution alarm can be placed where staff can see it. The installing electrician connects it with 18/2 shielded security cable to the existing low-solution light circuit as shown in the supplied drawing. Its enclosure is 3 in wide × 5 in high × 3 in deep. The remote unit is optional; the external solution container is standard.

Maintain the system

The owner is responsible for maintenance and the maintenance log. The warranty requires monthly maintenance and factory-authorized products, including Molitron MOAS solution purchased from a Molitron representative.

When	Task	What to look for
Daily	Inspect external solution level	The level should decrease each day the system is used.
Monthly	Cycle nozzle cleaning buttons	Several presses toward the duct clear the small misting orifice. Keep MOAS and exhaust fan running.
Monthly	Inspect tubing and plumbing	Check nozzle fittings, air/solution tubing and the copper inlet-water line for leaks.
Monthly	Test low-solution alarm	Raise the separate ¼ in sensing tube above the solution level momentarily.
Monthly	Inspect compressor intake filter	Clean or replace as needed; washed fabric must be thoroughly dry before refitting.
Monthly	Check clock	Verify time of day and correct it when needed.
As indicated	Inspect or replace pump tube	If solution use does not decrease, check that the tube is pumping. Replace a worn or failed tube.

Clean the nozzle buttons

1. Keep MOAS and the exhaust fan running.
2. At each duct nozzle, press the exposed rear cleaning button toward the duct several times. This clears the small orifice where air and liquid form the mist.
3. Inspect the tubing fittings at each nozzle for leaks. Record the work and any corrective action.

This running condition applies to button cycling. It is not an instruction to disassemble a nozzle or perform electrical repairs while energized.

Check the filter and alarm

Compressor intake filter

1. Locate the intake filter at the top left of the air compressor.
2. Turn its cover ¼ turn and gently pull outward.
3. The source describes two fabric filter elements. Replace them, or wash them and dry them thoroughly before reuse.
4. Refit both elements and the cover in their proper positions.

The filter element arrangement on the current fitted compressor requires confirmation against the source instructions; see the final review page. The original does not state the operating/isolation condition for this task.

Monthly low-solution alarm test

Momentarily raise the separate ¼ in sensing tube above the liquid level in the external solution container. With control power available, confirm that the buzzer and red light respond, then return the sensing tube to position. Keep the sensing tube distinct from the concentrate pickup.

See [Refill and low-solution alarm](#) on page 15.

When solution use stops decreasing

Check that the pump tube is moving solution. Replace the tube if it is not pumping. Also inspect tubing/plumbing connections for leaks, the concentrate path for blockage and the injector settings before returning the system to normal operation.

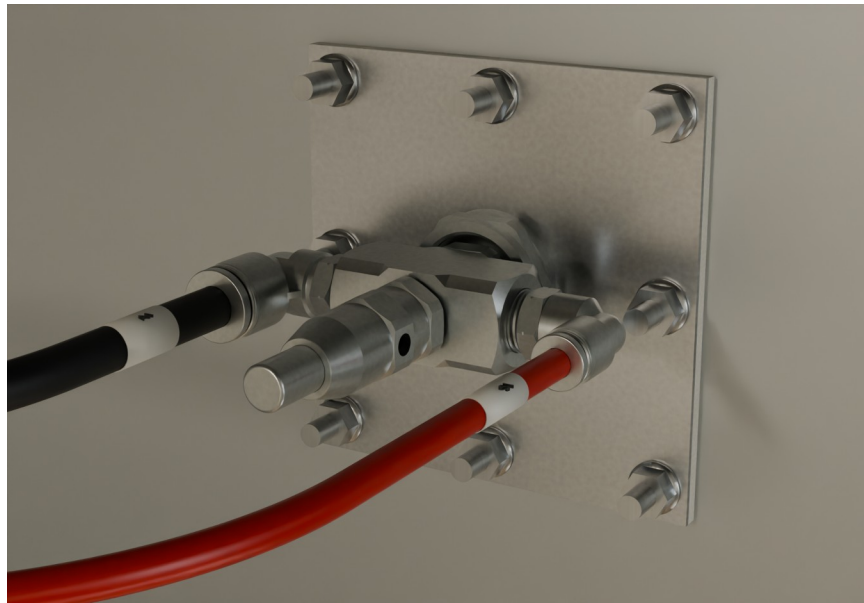


Figure 8 Duct nozzle and external fittings

Service the pump tube

Always unplug the chemical pump before maintenance. The following removal and inspection procedure preserves the source manual. Its missing installation continuation is identified on the following page and in the final review list.

- Do not apply grease, oil or lubricant to the tube or housing.
- Inspect the entire pump head for cracks or damaged parts. Rollers must turn freely.
- Rinse away residual fluid and clean fluid/debris from the pump-head components.
- Avoid excessive pulling, kinks or damage when handling tubing.
- After a tube rupture, inspect suction tubing, discharge tubing, the injection point and associated fitting for blockage; clear or replace as needed.

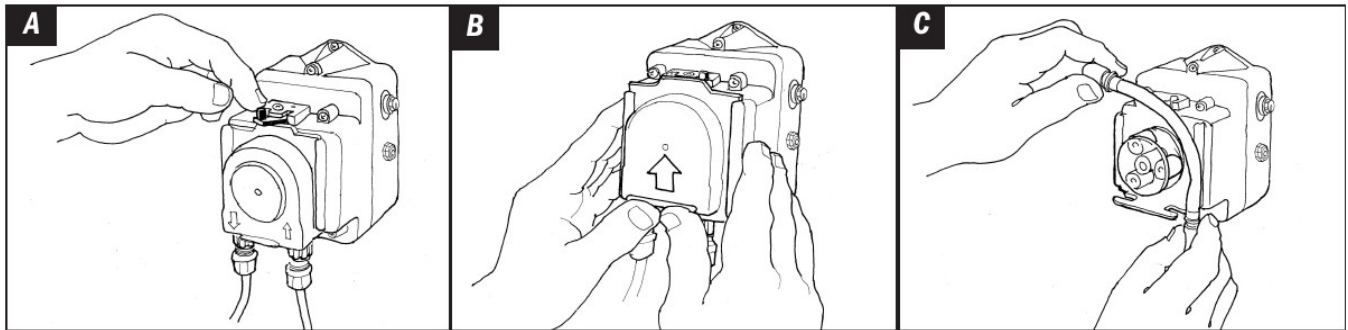


Figure 9 Unlock the cover, slide it up and release the tube fittings

1. Unplug the pump.
2. Move the cover-latch tab 180° from left to right to unlock it (A).
3. Push upward on the raised edge and slide the cover off (B).
4. Release the tube fittings from their slots and remove the tube (C).
5. Remove the roller assembly.
6. Clean residue from the housing, roller assembly and cover with a non-citrus all-purpose cleaner.
7. Check the cover for cracks and replace it if cracked.
8. Check that every roller spins freely.
9. Replace the roller assembly if it is seized, visibly worn, or has excessive side play from bore wear.
10. Reinstall the roller assembly.

Complete pump service

Review required before releasing this procedure

The supplied MOAS manual ends its tube procedure after reinstalling the roller assembly. It does not provide the new-tube seating, cover-locking, run-in, reconnection or priming sequence. That omission is retained as an explicit technical review item rather than filled with an assumed MOAS procedure.

The Stenner Econ FX/VX manufacturer manual contains a continuation on pages 21–24. Confirm the fitted pump series and replacement-tube kit before incorporating that sequence into this MOAS manual.

[Stenner Econ FX and VX manufacturer manual](#)

Preserved output-control instructions

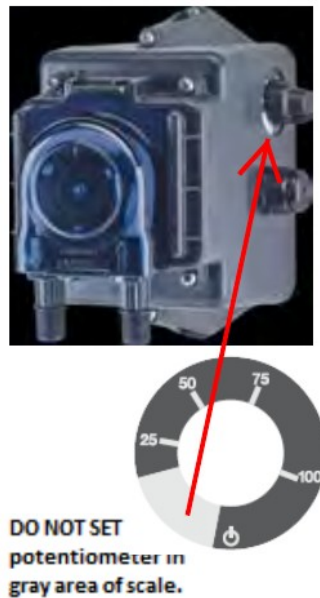


Figure 10 Pump speed control and prohibited gray scale area

Fully counterclockwise is off. Clockwise increases speed, reaching 100% at the end of travel. Graduations are approximate. Do not use the gray region of the scale. Record any approved operating setting in the equipment record.

See [Technical points for review](#) on page 30.

Find and correct faults

Start with the symptom and the visible checks. Electrical testing and component replacement belong to qualified service personnel. The source checks below retain the original maintenance precautions; complete isolation instructions remain under review.

Low-solution alarm stays on

Refill the external concentrate container. If the alarm remains on, reset the sensing tube in the stated sequence: disconnect at the black pressure nipple, lift the PVC assembly clear, remove trapped fluid, reconnect the top of the tube, then immerse the assembly again.

See [Refill and low-solution alarm](#) on page 15.

Mixing container does not fill

Check that the building water valve and the internal MOAS water valve are open. Check for inadequate water pressure. Allow for the 8-minute refill delay. If the supply and control call are correct but the solenoid fails, have the solenoid serviced or replaced.

Injector draws little or no concentrate

- Verify the refill-delay setting: 8 minutes is the current reference.
- Check the injector volume screw; the normal factory position is ½ turn counterclockwise from fully closed.
- Check/clear the inline ¾ in backflow-prevention check valve above the injector.
- Check the solution-pump speed control and that the pump tube is moving liquid.
- Check whether the water supply provides enough pressure for suction. If the injector is faulty, replace it.

MOAS operates with the exhaust fan off

Have the exhaust interlock and its wiring checked. Manual mode bypasses the cooking schedule, not the exhaust interlock; operating with the fan off is not expected current-system behavior.

Power and misting faults

MOAS does not run with the fan on

Check the SmartRelay time and cooking schedule. Check the cabinet-top power switch and MOAS supply. Check the GFI receptacle and the component plugs.

No power at the GFI receptacle

The source procedure is to unplug the connected components and press the red reset button on the GFI. A failed receptacle requires qualified replacement. Do not treat a reset as proof that the underlying fault has been corrected.

Mixing container overflows

Inspect the float switch for sticking. Check that the bottom lever moves freely. Replace a defective float switch. The original does not state the immediate shutdown/water-isolation sequence for an overflow; this remains a final-page review item.

No mist at the nozzles

- Confirm the compressor and solution pump are running and powered through the GFI.
- Confirm the cooling fan runs and its air path is not obstructed.
- Inspect and clean the compressor intake filter.
- Check for a worn or failed pump tube and replace it as needed.
- Clear the nozzle orifices using their buttons; inspect the fittings for leaks.

Record the finding

Record the date, symptom, checks, parts replaced and result in the maintenance log. Provide the model and serial number when requesting service.

See [Maintenance log](#) on page 25.

Parts and electrical reference

Use factory-authorized replacement parts and the equipment identification. The source numbers below match the component map. A modeled shape does not independently establish an electrical rating or replacement catalog number.

No.	Source identification	Rating or reference
1	Bryant rotary controller	Main power switch; 120 VAC
2	Dayton axial fan	120 VAC
3	Gast compressor and filter	⅓ HP; source system parts list: 120 VAC
4	Solid-state refill timer	24 V; 30 seconds–8 minutes; set to 8 minutes. Current catalog model requires confirmation.
5	Stenner chemical metering pump	120 VAC; use the fitted pump label to select its tube kit.
6	IDEC SPDT relay with LED	24 VAC coil
7	Dema 442P.3 NC diaphragm solenoid	¼ in valve; 24 VAC control circuit
8	Dema 202C brass injector	¼ in; fluid injector, not a separately powered 24 V component
9	Wiring schematic	See the following electrical-reference page
10	White Rodgers Class 2 transformer	120 VAC, 60 Hz input; 24 VAC output
11	IDEC FL1F-H12RCA SmartRelay	24 VAC system control
12	IDEC 3PDT relay	10 A contacts; 24 VAC coil
13	Low-solution pressure switch	¼ in sensing connection; used in 24 VAC alarm circuit
14	Check valve	¾ in concentrate-line backflow prevention
15	Mixing container	Internal container with float switch

Component nameplate ratings remain distinct from the branch-circuit requirement: 120 VAC, 20 A, dedicated to MOAS. The old timer model/ranges do not establish the current replacement part.

Electrical circuit reference

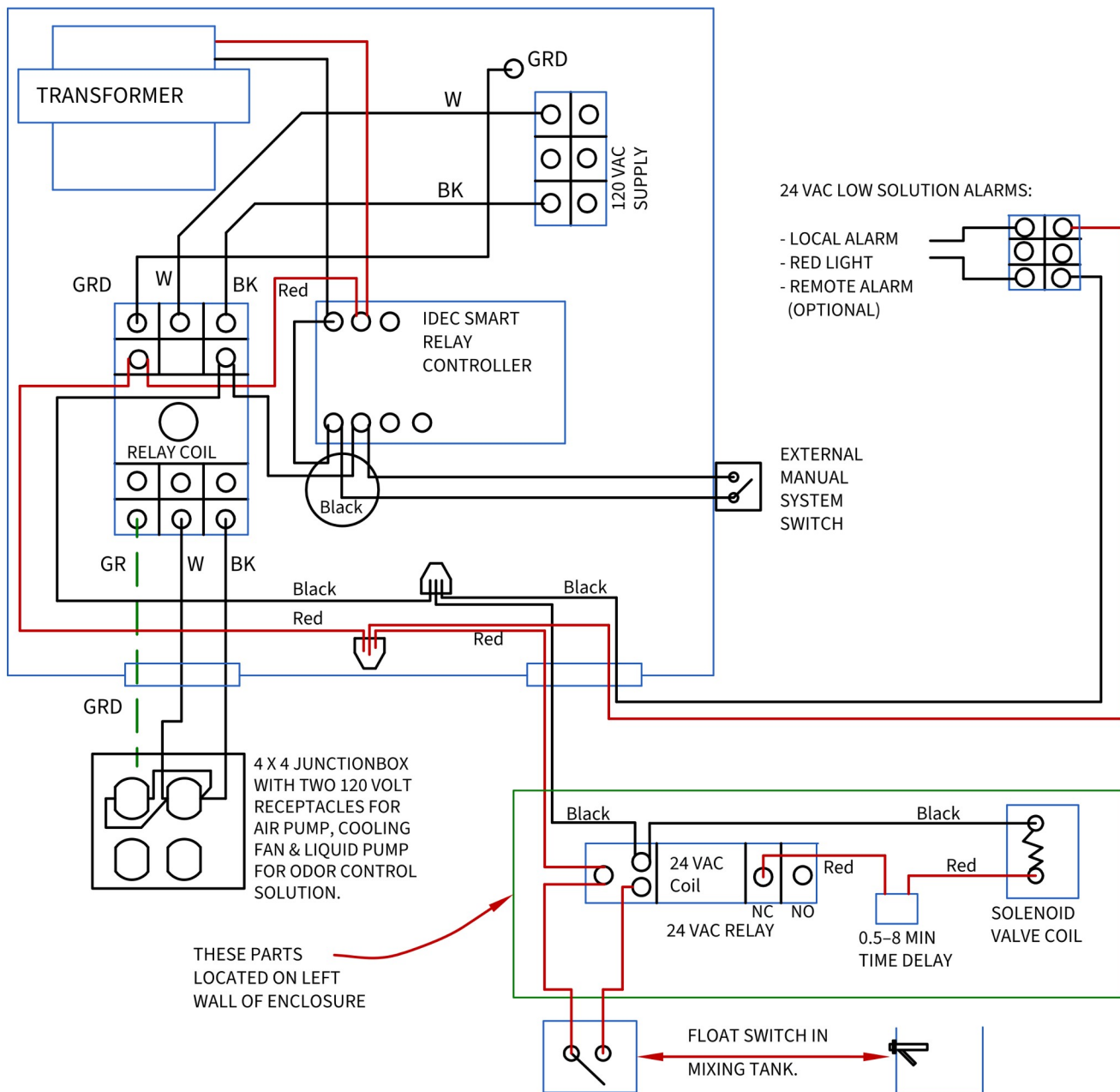


Figure 11 Source circuit geometry with confirmed voltage and timer wording

Refill sequence: float down → refill relay de-energized → delay expires → solenoid opens. Float up at full level → relay energized → solenoid closes. Current delay: 8 minutes; range: 30 seconds–8 minutes.

The source line paths, crossings and terminals have been retained; unverified junctions have not been added. Use the fitted equipment drawing for field service. Educational model views elsewhere are not substitutes for this circuit reference.

Alarm circuit reference

The external solution-level alarm is separate from the mixing-container float circuit. A pressure-sensing tube runs from the external container to the low-pressure switch.

Condition	Used switch path	Alarm with control power
Adequate solution pressure	Open	Buzzer and red light off
Low solution pressure	Closed	Buzzer and red light on

The inspected switch used COM and NC2; NO3 was unused. The discussion’s upper/middle/lower descriptions were orientation-specific, and no numeric COM pin was established. Match the switch markings and controlled wiring before service.

Keep the alarm-switch COM terminal distinct from other return references. The current approved equipment drawing and actual terminal markings govern service wiring.

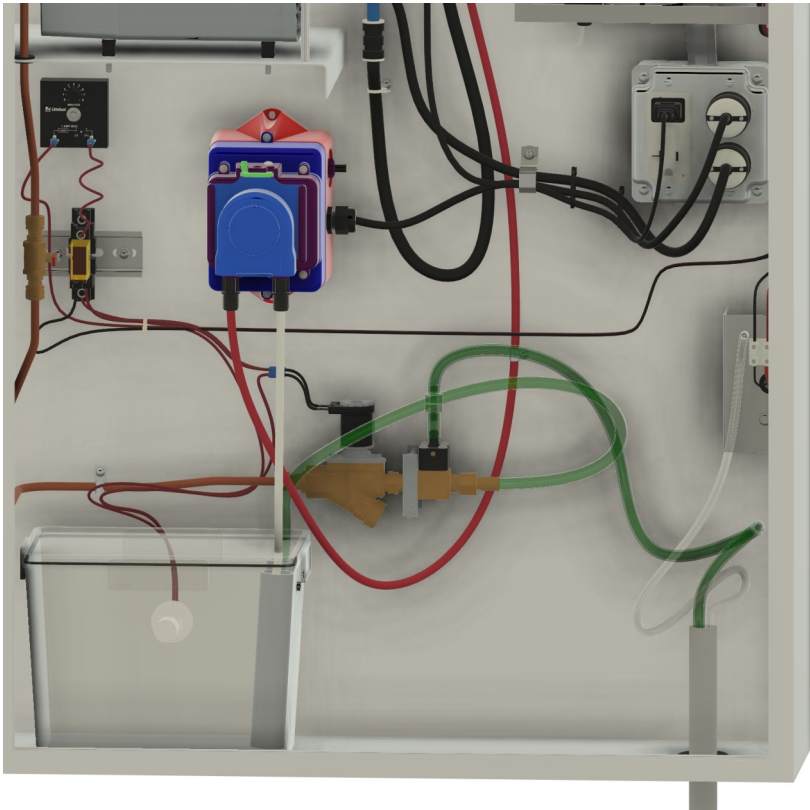


Figure 12 Lower cabinet and separate fluid/sensing paths

Maintenance log

Keep this record with the equipment. Complete the monthly tasks and record faults, repairs and replacement parts. Copy this page when more space is needed.

Establishment _____ Serial number _____

Date	Work performed and result	By

Monthly record: nozzle buttons • nozzle/tubing/plumbing leaks • alarm test • compressor filter • clock • pump tube if indicated.

Limited product warranty

The MOAS and its component parts are warranted to be free from defects in material and workmanship for twelve (12) months from the date of shipment. The component parts are:

- Electrical control panel
- Air compressor
- Chemical solution pump
- Liquid level switch
- Miscellaneous electrical components

This warranty does not cover parts damaged by the freight carrier from the factory to the ultimate destination, or parts damaged by the installing contractor.

This warranty does not apply if:

- The MOAS is not installed by a qualified installer according to the factory installation instructions shipped with the product.
- The MOAS is not installed in accordance with federal, state and local codes and regulations.
- The MOAS is misused or neglected.
- Factory-authorized parts and Molitron MOAS solution are not used.
- The MOAS is not operated within its published capacity.
- The invoice is not paid within the terms of the sales agreement.

The factory is not liable for incidental and consequential losses and damages potentially attributable to malfunctioning equipment. If a part proves defective in material or workmanship within the 12-month warranty period, the factory will examine it and repair or replace it at no charge for parts only. Labor costs incurred in connection with repair or replacement are not included. The factory does not accept returns of Molitron products.

The warranty is activated once the owner's acknowledgment is signed and returned to the factory.

The warranty terms above retain the meaning of the supplied warranty. Typography, sentence case and organization have been updated.

Owner acknowledgment

Required maintenance to maintain the MOAS one-year limited warranty

- ☐ I have read the required maintenance instructions. I understand that monthly maintenance is required to maintain the one-year MOAS warranty, including use only of MOAS solution purchased from a Molitron representative.
- ☐ I accept full responsibility for maintaining the equipment, keeping a maintenance log, and using only factory-authorized products in accordance with this operation and maintenance manual.
- ☐ I understand that if the equipment is not adequately and properly maintained using factory-authorized products, it will not satisfactorily perform its intended purpose and the warranty will be void.

Owner’s signature _____

Printed name _____

Establishment _____

Address _____

City, state and ZIP _____

Telephone _____

Email _____

Ship date _____

Startup date _____

Model number 32248

Serial number _____

Sign and return this acknowledgment to the factory. Keep a copy with the equipment records.

Commissioning checklist

Installing contractor — complete before startup by a factory representative.

- ☐ Cabinet mounted near the hood in a location with adequate ventilation.
- ☐ Standard external solution container installed below the cabinet.
- ☐ Exhaust interlock connected to the correct fan-control circuit and MOAS power path.
- ☐ 120 VAC, 20 A circuit dedicated to MOAS connected to the cabinet-top power switch.
- ☐ ¼ in copper cold-water line connected; supply does not exceed 80 PSI.
- ☐ Two misting nozzles mounted with the supplied plates and fittings.
- ☐ Black air tubing connected to AIR and red solution tubing to LIQUID.
- ☐ Tees installed correctly; corresponding branches relatively close in length.
- ☐ Every cabinet-through-tee-to-nozzle routed path is 100 ft or less.
- ☐ Owner informed of monthly preventive maintenance and authorized MOAS solution requirements for the first-year warranty.

Contractor’s signature _____

Printed name _____

Establishment _____

Model number 32248

Serial number _____

Maintain the monthly preventive-maintenance program and use factory-authorized solution.

Equipment record and revision

Record the installed equipment and approved operating settings. These fields do not establish new factory settings.

Site / establishment _____

Model and serial number _____

Installation / startup date _____

Installer / service contact _____

Fitted pump model and tube kit _____

Fitted refill timer model _____

Setting	Current reference	Site record
Electrical service	120 VAC / 20 A / dedicated to MOAS	
Refill-delay range	30 seconds–8 minutes	
Refill-delay setting	8 minutes	
Injector screw	Normally ½ turn CCW from fully closed	
Pump output	No fixed MOAS percentage stated in source	
Cooking periods	Set for actual cooking schedule	
Pulse	Off — do not change	

This edition

September 2026, Review 01. Reorganized from the supplied August 2024 MOAS installation, startup and maintenance manual. Current owner decisions update electrical service, the standard external container, refill timing, maximum water pressure, routed tubing limits, branch-length guidance and running conditions for nozzle-button cleaning.

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Technical points for review

This final page collects the open technical points requested for owner review. The original maintenance instructions remain in place; the items below must be resolved before this edition is issued as a complete field-service procedure.

1 Shutdown, isolation and restart

Confirm the full sequence for pump service, compressor-filter cleaning, nozzle disassembly and mixing-container overflow: power, exhaust fan, water shutoffs, pressure relief and restart. The source specifies unplugging the chemical pump, but does not give the complete system sequence.

2 Finish the pump-tube procedure

Confirm the fitted Stenner pump series and replacement-tube kit. The source procedure stops at roller reinstallation. Approve the new-tube seating, cover locking, run-in, reconnection and priming steps; the Econ FX/VX manufacturer manual is linked in the pump-service section.

3 Identify the current timer

The owner-confirmed adjustment range is 30 seconds–8 minutes, with an 8-minute setting. Confirm the manufacturer/catalog model to order. The original TAC 1223 identification does not substantiate this current range.

4 Confirm the fitted filter arrangement

The source calls for two washable fabric intake-filter elements under a quarter-turn cover. Verify that description against the compressor/filter actually supplied with current MOAS equipment.

5 Confirm release wiring references

Match the supplied interlock model/coil leads and current cabinet service drawing to the fitted equipment. Source wire paths were retained without inventing unclear junctions; photo-modeled wires and orientation-only terminal descriptions do not settle unverified endpoints.

6 Confirm the schedule presets

The source shows both D1 and D2 at 10:00–14:00 on all days, with D3 off. Confirm whether these duplicate presets should remain in future releases. Actual cooking periods are adjustable; Pulse stays off.

7 Confirm listing artwork

The original manual carries an ETL Listed mark. Confirm the current listing reference and approved reproduction before adding the mark to this edition.

Resolved for this edition

120 VAC / 20 A dedicated supply; standard external container; 80 PSI maximum water pressure; 100 ft per complete routed path; corresponding tee branches relatively close, not necessarily identical; monthly nozzle-button cycling with MOAS and exhaust fan running; refill delay 30 seconds–8 minutes, set to 8 minutes.