

Molitron Odor Abatement System (MOAS)

Engineering & Installation Planning Guide

Plan the equipment location, utilities, remote nozzles, tubing, exhaust-fan interlock, access, and project responsibilities before installation work begins.

PROJECT PLANNING AND COORDINATION — NOT FOR CONSTRUCTION

This guide helps owners and facility managers organize a MOAS project and gives engineers, architects, contractors, service personnel, and authorities having jurisdiction (AHJs) a common planning reference. It is not a construction drawing, wiring diagram, startup procedure, calibration procedure, service manual, or project approval.

Listing and electrical values

MOAS is ETL Listed for the U.S. and Canada under Intertek Report 101453585DEN-002. The report identifies UL 197 and CSA C22.2 No. 109 as the applicable standards.

The product listing does not establish project approval or AHJ acceptance. Confirm project-specific requirements with the design professional and authority having jurisdiction.

Value	Controlled description
Listed equipment rating	120 V, 3.5 A, 60 Hz
Project electrical requirement	120 VAC, 15 A dedicated circuit

These values describe different electrical concepts and must not be substituted for one another.

MOLITRON COMPANY INC

MOAS-INS-001 | REV A | JULY 2026

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01 | PROJECT INPUTS

Start with the project inputs

A useful MOAS review begins with the complete commercial-kitchen exhaust path—not only the cabinet location. Assemble the following information before the project team selects locations or coordinates utilities.

Cooking and exhaust information

- Cooking equipment under the hood, including fuel type.
- Menu and cooking processes that affect the exhaust load.
- Hood arrangement and exhaust airflow.
- Duct route, fan arrangement, and discharge location.
- Available path between the proposed nozzle location and atmospheric discharge.
- Nearby outdoor-air intakes, occupied areas, property lines, or other sensitive receptors that may affect the project review.

Site and project information

- Project name, address, and jurisdiction.
- New construction, remodel, or existing-system modification; current status and anticipated schedule.
- Project design professional, installing contractors, startup/service contact, and AHJ contacts when known.
- Proposed cabinet and optional solution-container locations; available electrical and cold-water utilities.
- Access for installation, inspection, refilling, startup, and future service.

Who coordinates what

Participant	Planning responsibility
Owner or operator	Provide current cooking, operating, site, access, and schedule information.
Engineer or designer	Coordinate exhaust path, structural support, utilities, controls, access, project requirements, and AHJ review.
Qualified installer	Use current controlled project and installation information for the authorized work.
Qualified electrical personnel	Coordinate the dedicated supply, fan-status relationship, and electrical work using current controlled information.
Authorized startup/service personnel	Perform startup, dilution adjustment, calibration, alarm checks, and service using current controlled instructions.
Authority having jurisdiction	Determine project acceptance under requirements applicable to the project location.
Molित्रon	Provide product information and project-specific application review.

Safety boundary

MOAS is permanently connected electrical equipment. Installation, electrical work, startup, calibration, and service are for qualified or authorized personnel using current controlled information. The cabinet contains no user-serviceable parts. Electrical-shock and hot-surface hazards may remain inside the equipment.

This planning guide does not provide de-energization, lockout/tagout, wiring, energization, startup, alarm-test, calibration, or service procedures.

GENERAL SAFETY CONTEXT — NOT A MOAS PROCEDURE [1][2]

OSHA's electrical work-practice rule generally requires exposed live parts to be deenergized before employees work on or near them unless specified exceptions apply. OSHA's hazardous-energy rule addresses servicing and maintenance where unexpected energization, startup, or stored-energy release could cause injury. Employer programs, qualified personnel, and current controlled instructions govern the work.

02 | SYSTEM COORDINATION

Coordinate the complete MOAS system

The wall-mounted MOAS cabinet supplies separate air and solution lines to two remote misting nozzles in the commercial-kitchen exhaust path. The project also coordinates the optional Odor Neutralizer Solution container, cold water, electrical supply, and exhaust-fan operating relationship.

MOAS may be planned as a stand-alone odor-abatement system or alongside EPFA filtration. The products are not automatically required together, and this planning relationship does not create a combined-performance promise.

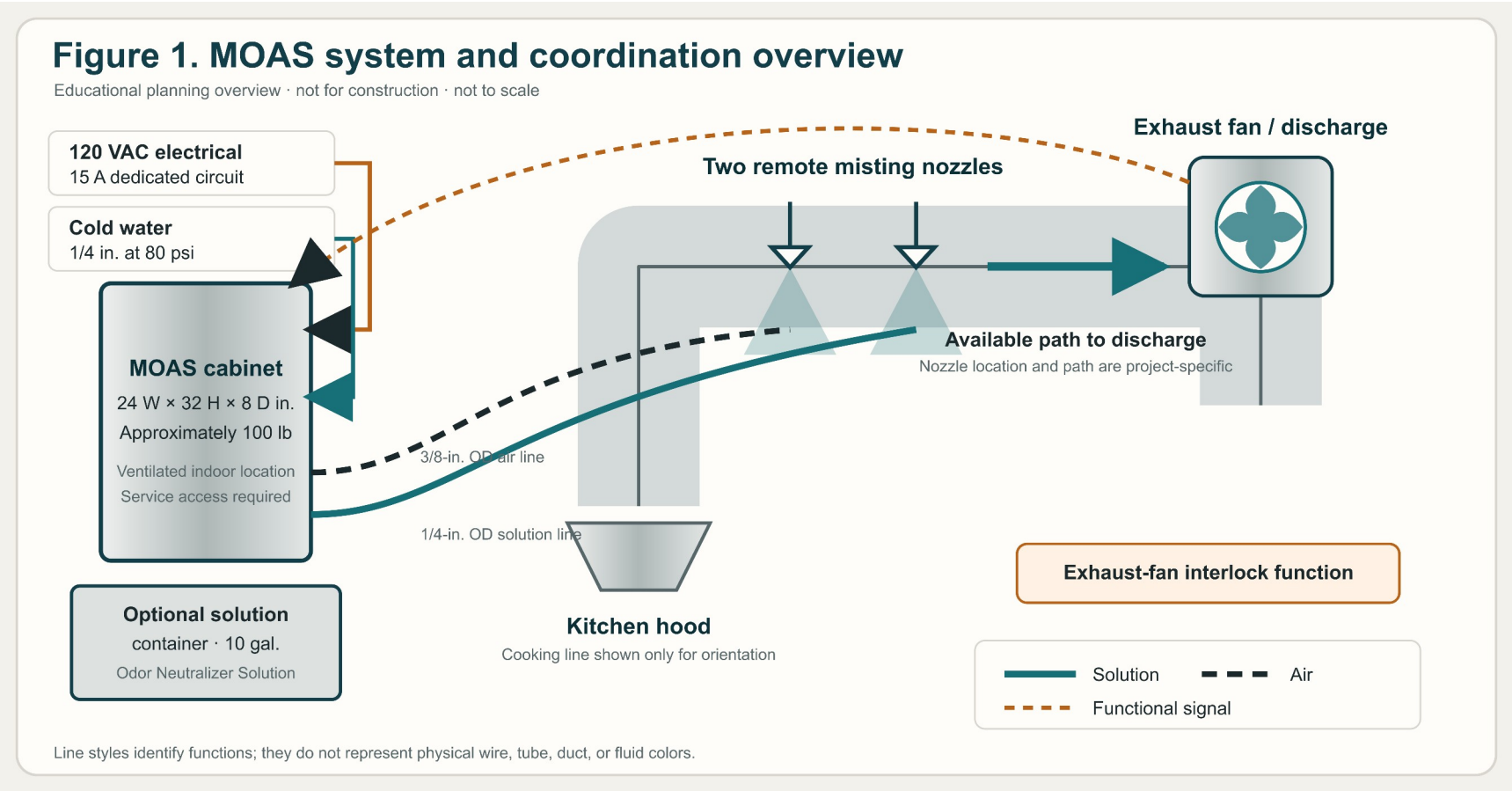


Figure 1. Planning-level relationship among the exhaust path, two nozzles, MOAS cabinet, optional container, utilities, tubing, and fan interlock. Not for construction; not to scale.

CAPACITY PLANNING VALUE

Up to 6,000 CFM per two-nozzle system. This is an upper-limit documentation value, not a guaranteed result for every installation. Final configuration, nozzle location, available path, tubing routing, startup, and calibration are project-specific.

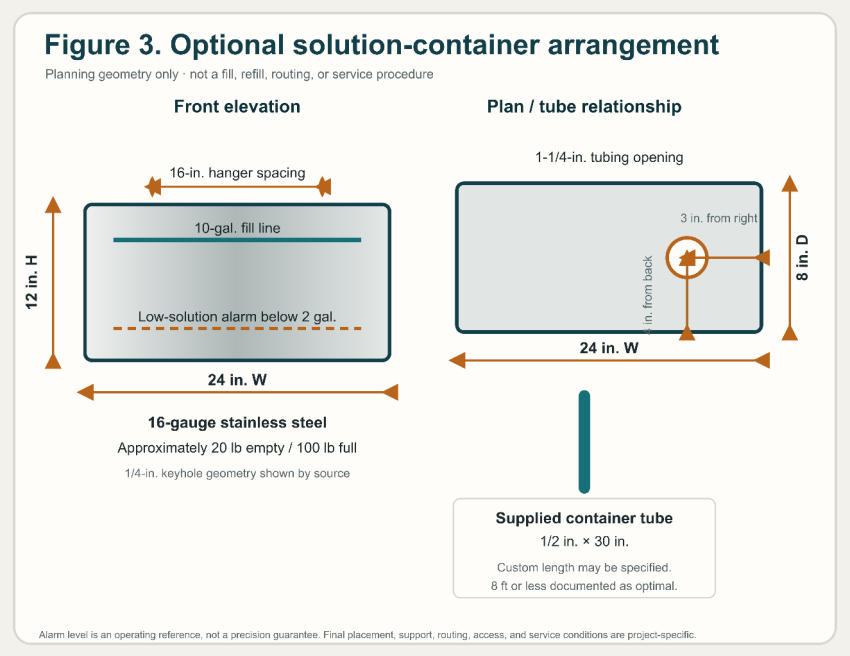
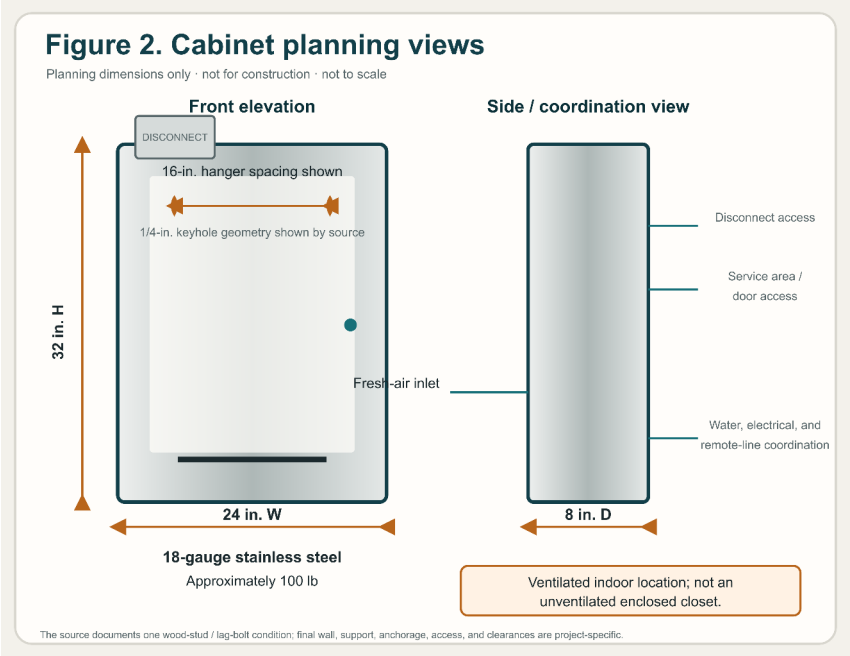
Operating relationship: The exhaust-fan interlock is intended to prevent MOAS operation when the exhaust fan is off. Page 6 explains this functional intent without providing construction wiring.

Figure source: selected original MOAS installation diagram, current owner decisions, and private controlled-record review. No controlled report artwork is reproduced. Line styles identify functions and do not represent physical colors.

03 | EQUIPMENT PLANNING

Plan the cabinet and optional solution container

Coordinate equipment envelopes, approximate weights, documented mounting geometry, ventilation, service access, utilities, solution handling, and project-specific support before installation.



Figures 2–3. Planning dimensions and geometry only. Not for construction; not to scale. Container figure is not a fill, refill, routing, or service procedure.

Planning item	MOAS cabinet	Optional solution container
Construction / envelope	18-ga stainless; 24 W × 32 H × 8 D in.	16-ga stainless; 10 gal.; 24 W × 12 H × 8 D in.
Approximate weight	100 lb	20 lb empty / 100 lb full
Source mounting geometry	16-in. hanger; 1/4-in. keyholes	16-in. hanger; 1/4-in. keyholes
Tubing opening	Not specified here	1-1/4 in.; 4 in. from back / 3 in. from right
Operating reference	Ventilated indoor location; service access	Low-solution alarm below 2 gal.; not a precision guarantee
Supplied container tube	Not applicable	1/2 in. × 30 in.; custom lengths; 8 ft or less documented as optimal

The cabinet is commercial, indoor-use, permanently connected equipment. Plan a ventilated location; do not use an unventilated enclosed closet. Preserve access to the disconnect, service areas, fresh-air inlet, water and electrical connections, and remote tubing route. The controlled source documents one wood-stud and lag-bolt mounting condition; it does not establish a universal wall, anchor, support, clearance, or load design. Final support, anchorage, access, placement, and routing are project-specific.

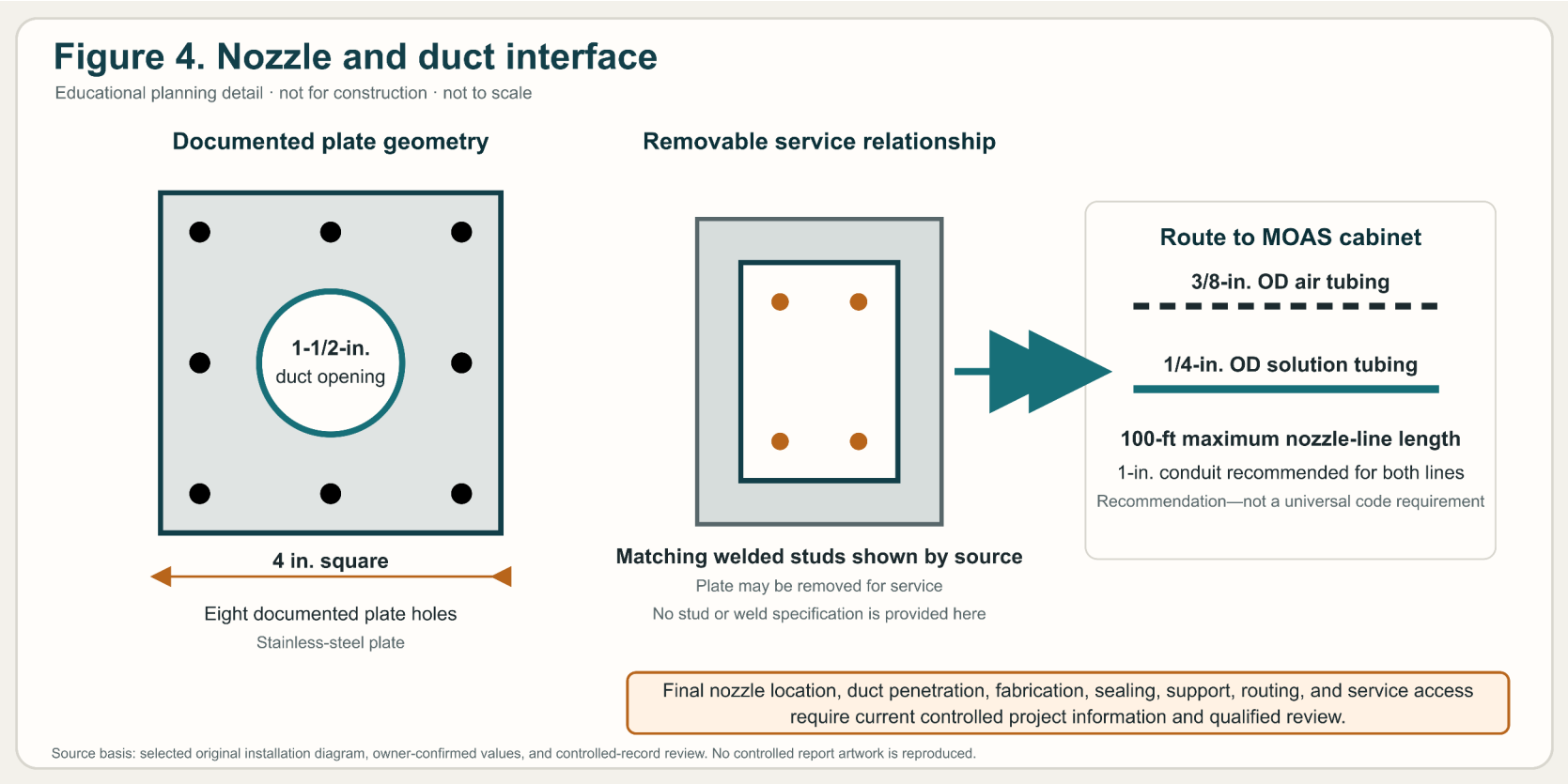
GENERAL WATER-SYSTEM CONTEXT — NOT A MOAS SPECIFICATION [3]
EPA describes a plumbing cross-connection as an actual or potential connection between potable and non-potable water supplies. The project design team should determine whether backflow protection or other cross-connection controls are required by the jurisdiction. This guide does not select a device or define a plumbing arrangement.

Figure sources: selected original installation diagram, current owner decisions, and private controlled-record review. No controlled report artwork is reproduced.

04 | NOZZLE AND TUBING PLANNING

Plan the nozzle interface and tubing route

MOAS uses two remote misting nozzles connected to the cabinet by separate air and solution lines. Final nozzle location, duct penetration, fabrication, sealing, support, routing, and service access require current controlled project information and qualified review.



05 | CONTROLS AND HANDOFF

Coordinate the exhaust-fan interlock and project handoff

The interlock is a functional relationship: MOAS is intended not to operate when the exhaust fan is off. The project's qualified electrical personnel must coordinate the actual fan-status signal, control/relay function, dedicated supply, and authorized installation information.

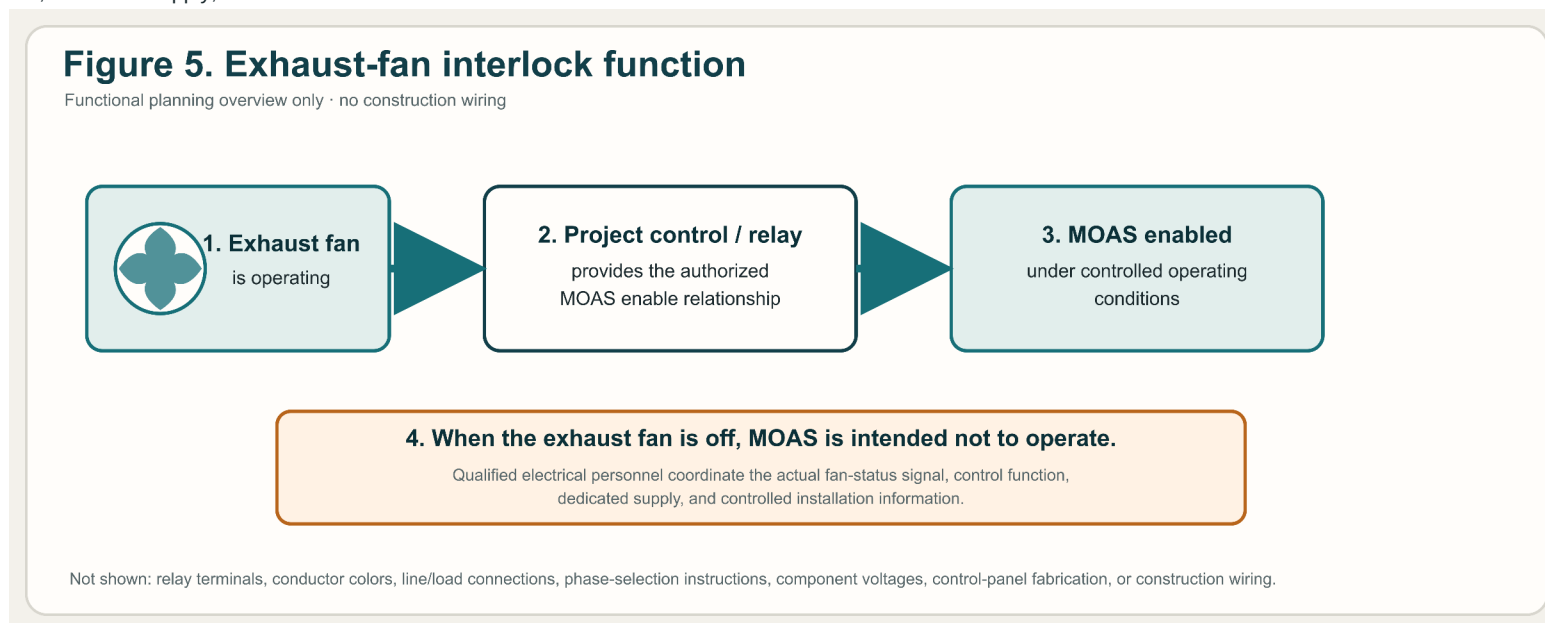


Figure 5. Functional planning overview only. No relay terminals, conductor colors, line/load connections, phase-selection instructions, component voltages, control-panel fabrication, or construction wiring are shown.

Functional sequence

1. **The exhaust fan is operating.** The operating condition begins with fan status.
2. **The authorized control relationship is provided.** The project control/relay function supplies the MOAS enable relationship.
3. **MOAS is enabled.** Operation remains subject to current controlled conditions.
4. **The exhaust fan is off.** MOAS is intended not to operate.

Before installation and startup are handed off

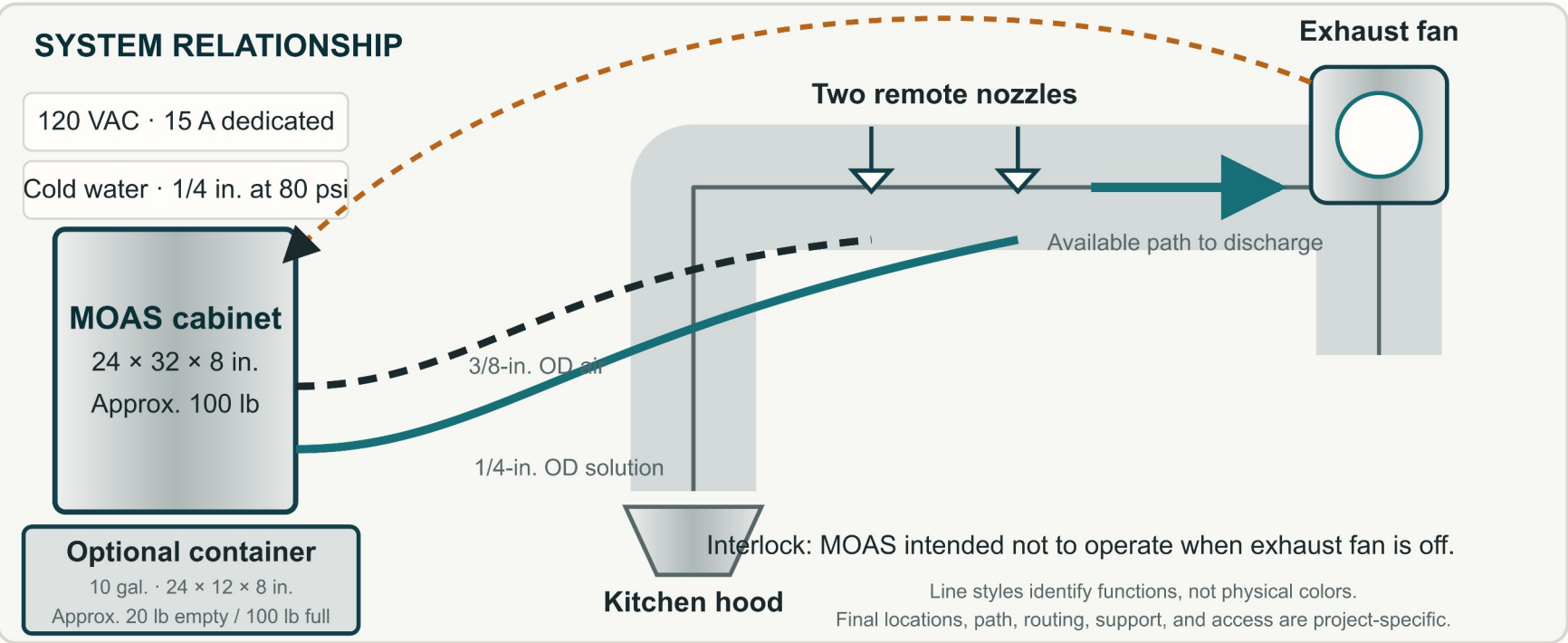
- Confirm current controlled installation information and identify qualified electrical, mechanical, installation, and startup responsibilities.
- Verify the dedicated electrical supply, cold-water supply, and exhaust-fan interlock coordination.
- Verify cabinet and optional-container location, support, ventilation, access, and service space.
- Verify the two-nozzle location concept, separate tubing route, maximum line length, and service access.
- Confirm who performs authorized startup, dilution adjustment, calibration, low-solution alarm checks, and owner/operator handoff.
- Record project-specific approvals, inspections, and AHJ acceptance as required.

Checklist limitation: This checklist coordinates responsibilities. It is not a wiring, energization, startup, dilution, alarm-test, calibration, or service procedure.

MOAS Field-Planning Reference

Project planning and coordination · not for construction · educational overview · not to scale

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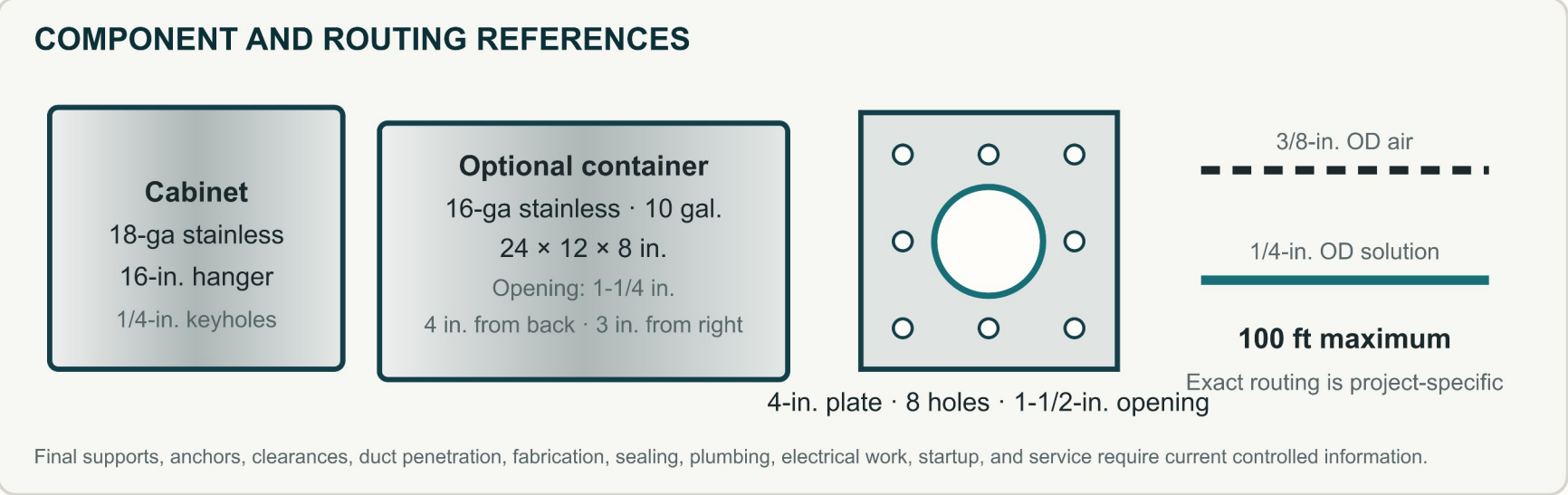
CONTROLLED PLANNING VALUES

Listed equipment rating	120 V, 3.5 A, 60 Hz
Project electrical	120 VAC, 15 A dedicated circuit
Cold water	1/4 in. at 80 psi
Two-nozzle capacity	Up to 6,000 CFM*
Nozzle lines	1/4-in. solution; 3/8-in. air
Maximum line length	100 ft*
Line conduit	1 in. recommended†
Container tube	1/2 in. × 30 in.; ≤8 ft optimal
Low-solution alarm	Below 2 gal.‡

* Final configuration, location, path, routing, startup, and calibration are project-specific.

† Product recommendation, not a universal code requirement.

‡ Operating reference, not a precision guarantee.



PROJECT REMINDERS

- Use a ventilated indoor cabinet location; not an unventilated enclosed closet.
- Qualified or authorized personnel use current controlled information.
- Coordinate cabinet, container, utilities, nozzles, tubing, access, and interlock.
- Retain project-specific design, inspection, and AHJ acceptance records.

LISTING

MOAS is ETL Listed for the U.S. and Canada under Intertek Report 101453585DEN-002. The report identifies UL 197 and CSA C22.2 No. 109. Listing does not establish project or AHJ approval.

06 | CONTROLLED REFERENCE

Technical data and document limitations

Controlled technical-data summary

Item	Current planning value
Product	Molitron Odor Abatement System (MOAS)
Product scope	Commercial, indoor-use, permanently connected equipment
Listing	ETL Listed for the U.S. and Canada under Intertek Report 101453585DEN-002; report identifies UL 197 and CSA C22.2 No. 109
Listed equipment rating	120 V, 3.5 A, 60 Hz
Project electrical requirement	120 VAC, 15 A dedicated circuit
Cold-water supply	1/4 in. at 80 psi
Remote solution / air tubing	1/4-in. OD solution; 3/8-in. OD air
Maximum nozzle-line length	100 ft; final routing and installation are project-specific
Nozzle-line conduit	1 in. recommended; not a universal code requirement
Two-nozzle capacity	Up to 6,000 CFM; final configuration, location, path, routing, startup, and calibration are project-specific
Cabinet	18-ga stainless; 24 W × 32 H × 8 D in.; approximately 100 lb
Optional solution container	16-ga stainless; 10 gal.; 24 W × 12 H × 8 D in.; approximately 20 lb empty / 100 lb full
Supplied container tube	1/2 in. × 30 in.; custom lengths may be specified; 8 ft or less documented as optimal
Low-solution alarm point	Below 2 gal.; operating reference, not a precision guarantee

Use this guide within its limits

- This is a project-planning and coordination guide—not a construction, wiring, startup, calibration, service, certification, or project-approval record.
- Diagrams are educational and not to scale unless a scale is expressly shown.
- Final support, anchorage, clearances, access, nozzle location, duct penetration, fabrication, sealing, plumbing, controls, electrical work, startup, and service require current controlled project information.
- Product listing does not establish project approval, code approval, suitability, or AHJ acceptance. The up-to capacity value is not a guarantee.
- No step-by-step wiring, energization, startup, dilution, alarm-test, calibration, or service procedure is provided.

Discuss the project with Molitron

Send the cooking equipment, airflow, hood and duct arrangement, discharge location, project address, available utilities, proposed equipment locations, and project status to cleanair@molitron.com, or call 303-969-8888.

General-context references

These official references support only the visibly labeled general safety and water-system notes. They do not establish MOAS compliance or provide a MOAS procedure.

1. [OSHA, 29 CFR 1910.333 — Selection and use of work practices](#), accessed July 13, 2026.
2. [OSHA, 29 CFR 1910.147 — The control of hazardous energy](#), accessed July 13, 2026.
3. [U.S. EPA, Cross-Connection Control Manual](#), technical corrections 2003; accessed July 13, 2026.

Document control

Field	Value
Title	MOAS Engineering & Installation Planning Guide
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