



LEGACY EQUIPMENT | DISCONTINUED | EXISTING INSTALLATIONS ONLY

Enviro-Clean Air Scrubber

Legacy Technical Reference for Existing Installations

Historical specifications, connections, and operating relationships

This reference is for owners and qualified service or project parties working with Enviro-Clean Air Scrubber equipment that is already installed. Enviro-Clean has been discontinued and is not offered for new projects.

Use this reference to identify documented legacy equipment, understand its general arrangement, review selected historical source values, and organize unit-specific information before inspection, service, alteration, or replacement planning.

This is not a current specification sheet, product-selection guide, installation manual, wiring diagram, fan-selection procedure, rigging plan, structural design, plumbing design, fire-suppression drawing, maintenance procedure, or substitute for the installed unit's nameplate, markings, instructions, project documents, qualified work, permits, or authority having jurisdiction review.

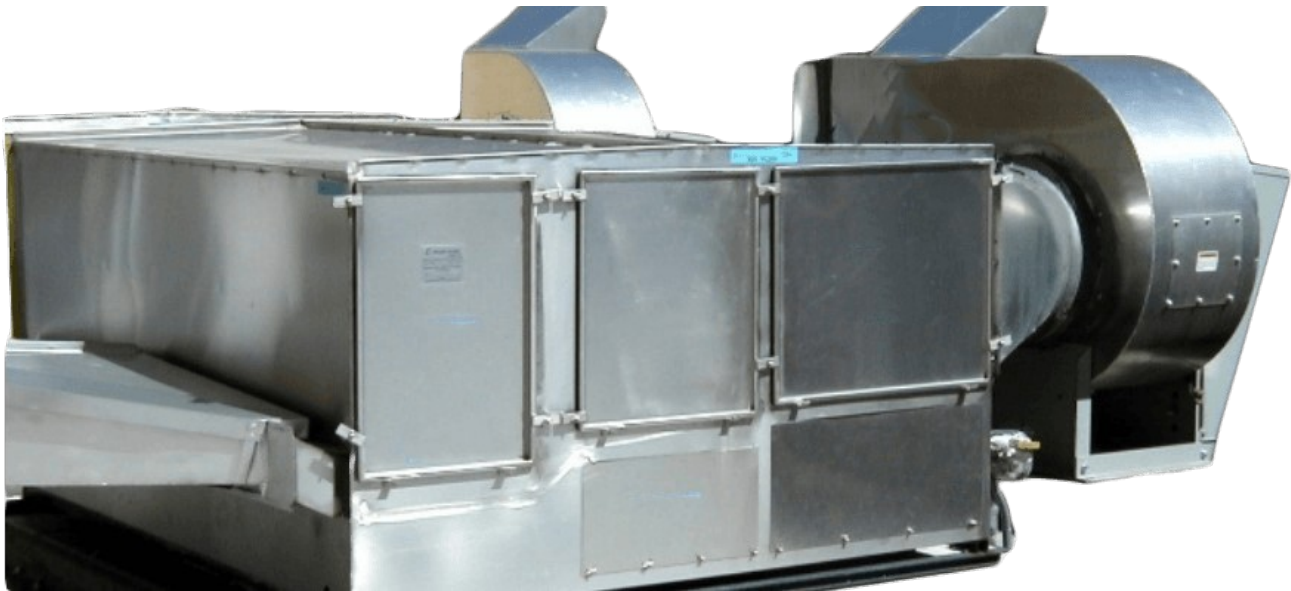


Figure 1. Legacy Enviro-Clean equipment. Photograph supplied by Molitrone for equipment recognition only; do not use for measurement or configuration assumptions.

Start with the installed unit

- Clear photographs of the entire unit and surrounding installation.
- Equipment nameplate, complete model, serial or job information, and applicable equipment mark.
- Access side, controls, duct connections, field utilities, and support condition.
- Heater, freeze-protection, or fire-suppression provisions when equipped.
- Available installation, project, permit, inspection, service, and modification records.

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01 | IDENTIFY

Identify the installed equipment

Molित्रon's controlled legacy record describes Enviro-Clean Air Scrubber equipment using the AFSW model designation followed by a width suffix. The suffix identifies the nominal unit width in inches. Confirm the complete model designation and physical nameplate before relying on family-level information.

- AFSW-24 | AFSW-36 | AFSW-48 | AFSW-60 | AFSW-72 | AFSW-84
- AFSW-96 | AFSW-108 | AFSW-120 | AFSW-132 | AFSW-144

Controlled legacy family facts

Relationship	Controlled legacy description
Enclosure length	78 inches
Enclosure height	45 inches
Enclosure width	Varies by model suffix
Enclosure material	18-gauge 300-series stainless steel
Front access	Five access panels in the controlled family description
Larger-unit access	Some larger units may have access panels on both sides

FAMILY DATA - VERIFY THE ACTUAL UNIT
These facts are not a verified as-built record for a particular unit. Inspect and measure the installed equipment before planning access, removal, rigging, repair, replacement, or alteration. This reference provides no operating weight, support load, lifting point rating, attachment design, or rigging value.

UL Listing record

CONTROLLED LISTING STATEMENT
Molित्रon's UL Listed equipment record under File MH45752 includes legacy AFSW Enviro-Clean models 24 through 144. The models were investigated to the UL 8782 Outline of Investigation for Pollution Control Units for Commercial Cooking Operations.

MARKED EQUIPMENT ONLY
Only equipment bearing the applicable UL Mark is covered by the Listing record. Verify the model and marking on the installed equipment.

The Listing does not establish current product availability, accessory coverage, acceptance of a field modification, project approval, code compliance, suitability for a particular installation, or acceptance by an authority having jurisdiction. This reference uses the Listing as an equipment-identification and records reference. It does not reproduce a certificate, report page, or UL Mark.

Source: original Molित्रon Enviro-Clean documentation and Molित्रon-controlled File MH45752 record. Verify the installed unit.

02 | ARRANGEMENT

How the documented assembly is arranged

Molित्रon's controlled legacy record describes the AFSW Enviro-Clean assembly as an inline grease-duct system with a water-spray baffle section followed by a coarse filter section and a bag filter section.

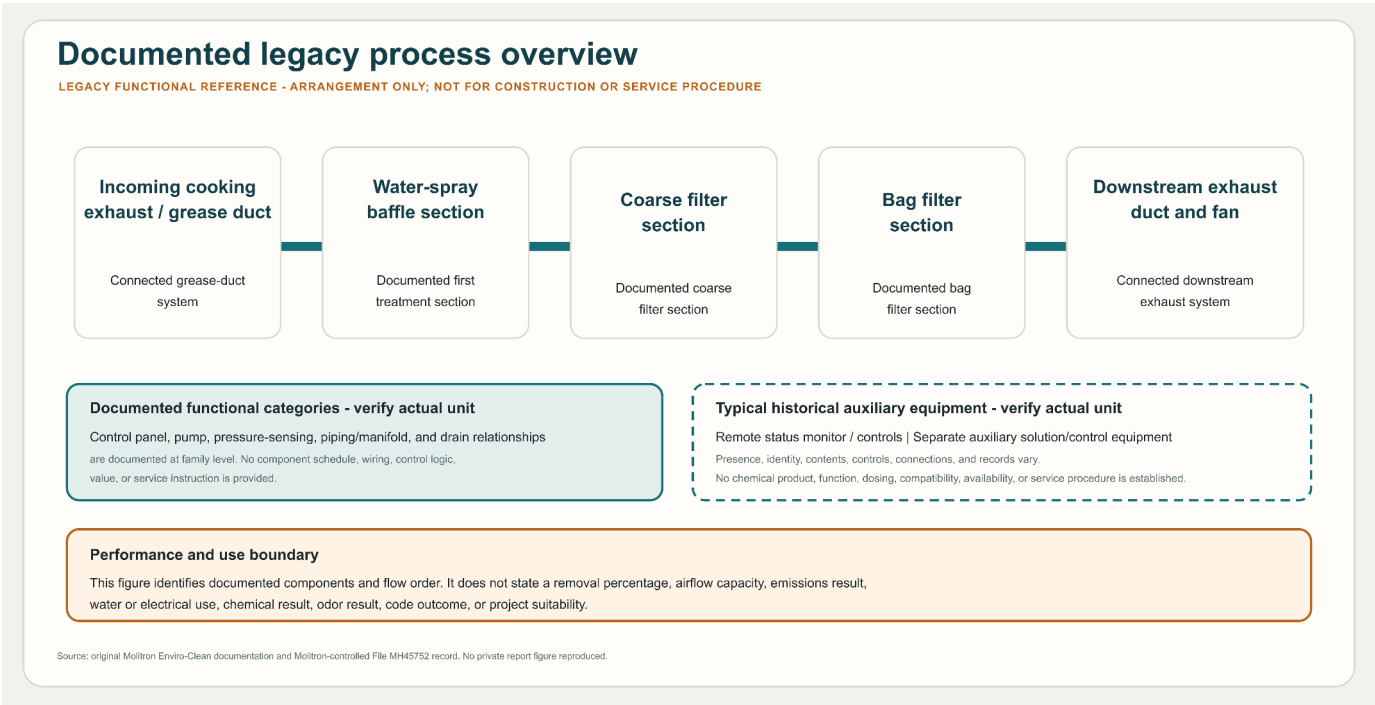


Figure 2. Documented legacy process overview - arrangement only; not for construction or service procedure.

Stage	Documented relationship
1. Incoming cooking exhaust / grease duct	Exhaust enters from the connected grease-duct system.
2. Water-spray baffle section	The documented first section uses water spray and baffles.
3. Coarse filter section	Exhaust then passes through the documented coarse filter section.
4. Bag filter section	Exhaust next passes through the documented bag filter section.
5. Downstream exhaust duct and fan	The connected exhaust system continues beyond the unit toward the downstream fan.

ARRANGEMENT ONLY

This sequence identifies documented components and flow order. It does not state a removal percentage, airflow capacity, emissions result, water or electrical use, chemical result, odor result, code outcome, or project suitability.

The controlled family record also describes an internal control panel, one or more pumps, pressure-sensing components, fluid piping and manifold relationships, and drainage from the wash and filter sections. These are identification categories only; no internal component schedule, wiring, control logic, piping detail, value, or service instruction is provided.

The original documentation depicts a remote status monitor and separate solution or auxiliary control equipment. Verify presence, location, contents, controls, and connections. No chemical product, function, dosing, compatibility, availability, replacement procedure, or service method is established.

Source: original Molित्रon Enviro-Clean documentation and Molित्रon-controlled File MH45752 record. Legacy functional reference; not for construction or service procedure.

03 | OPERATING RELATIONSHIP

Historical operating relationship - verify actual controls

The original document describes an automatic operating relationship tied to exhaust airflow. The sequence below preserves only that high-level historical relationship.

- 1. **Airflow detected.** The original describes the scrubber starting after the serving exhaust fan operates and airflow is verified by a differential pressure switch.
- 2. **Reservoir fill and recirculation.** The original describes filling the reservoir with hot water and recirculating water through a manifold above the scrubbing area.
- 3. **Counterflow contact.** Exhaust moves upward through the scrubbing area while recirculated water moves downward.
- 4. **Documented filtration path.** Exhaust continues through the documented coarse and bag filter sections before entering the downstream exhaust system.
- 5. **Shutdown drain and final flush.** After the exhaust fan is shut off, the original describes draining collected water and material before a final hot-water flush of the reservoir and drain line.

Verify the installed sequence

The available records do not establish the controller, sensing, timing, water level, pump count, valve arrangement, interlocks, chemistry, flush duration, or shutdown behavior for every installed unit. Use the actual unit, its labels, and available unit-specific records.

NOT AN OPERATING OR SERVICE PROCEDURE

This page is not a startup, operating, commissioning, troubleshooting, cleaning, maintenance, or service procedure. Work must be performed by qualified personnel using appropriate safe-work practices and the information that applies to the installed equipment.

What this page preserves and omits

Preserved historical relationship	Deliberately omitted
Airflow-initiated operation	Controller brand, program, terminals, and wiring
Reservoir fill and water recirculation	Exact wash, rack, or water-contact counts
Opposing air and water movement	Chemistry, dosing, chemical identity, and availability
Coarse and bag filter sequence	Filter percentage, particle-size result, and fire-class marketing language
Shutdown drain and final flush	Timing, setpoints, service steps, performance, capacity, compliance, and outcome claims

Source: original Molitron Enviro-Clean technical document. Historical relationship; verify the installed unit and records.

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04 | HISTORICAL DATA

Historical model and sizing data

HISTORICAL SOURCE VALUES - VERIFY INSTALLED UNIT AND PROJECT RECORDS
The table transcribes values printed in the original Enviro-Clean technical document. Except for the controlled relationship between model suffix and nominal width, these values have not been independently confirmed as current for an installed unit.

Original source row	24	36	48	60	72	84	96	108	120	132	144
Maximum air volume per scrubber width (CFM)	1,800	2,700	3,600	4,500	5,400	6,300	7,200	8,100	9,000	9,900	10,800
Width (inches)	24	36	48	60	72	84	96	108	120	132	144
Inlet collar: 6 in. x	20	32	44	56	68	80	92	104	116	128	140
Outlet collar: 24 in. x	20	32	44	56	68	80	92	104	116	128	140
Quantity of 24 x 24 in. filters	1	1	2	2	3	3	4	4	5	5	6
Quantity of 24 x 12 in. filters		1		1		1		1		1	
Reservoir quantity (gal)	6.30	9.50	12.60	15.80	18.90	22.20	25.30	28.50	31.60	32.80	37.90
Water weight (lb)	53	79	106	132	158	185	211	237	264	290	317
Shipping weight (lb)	400	600	800	1,000	1,200	1,400	1,600	1,800	2,000	2,200	2,400

Blank cells reproduce blank cells in the original source. They do not mean zero, none, or not applicable.

USE LIMITATION
This historical transcription is not a current rating, equipment-selection table, availability statement, fan-selection input, structural design, support/load value, shipping commitment, lifting value, or rigging instruction. Do not calculate, interpolate, or infer a missing or unit-specific value from this table.

Historical pressure and fan note

HISTORICAL SOURCE VALUES - DO NOT USE FOR FAN SELECTION OR MODIFICATION WITHOUT QUALIFIED PROJECT REVIEW. The original source states a scrubber static pressure of 3.0 inches water gauge with clean filters and an additional 0.5 inch water gauge allowance for filter loading. It then gives a 3.5-inch WGSP fan-sizing basis plus hood and duct static loss.

These values are preserved only as a record of the original document. Confirm the installed unit, filter condition, actual system resistance, hood and duct losses, fan data, and current project requirements with a qualified professional before evaluating, selecting, replacing, balancing, or modifying a fan.

Source: original Molitron Enviro-Clean technical document, Page 4. Historical source values; verify the installed unit and project records.

05 | INSTALLED RELATIONSHIPS

Figure 3. Legacy typical installed relationships

Use this figure to locate relationships that may be present around existing Enviro-Clean equipment. Do not use it to select, install, wire, pipe, support, relocate, or modify a unit.

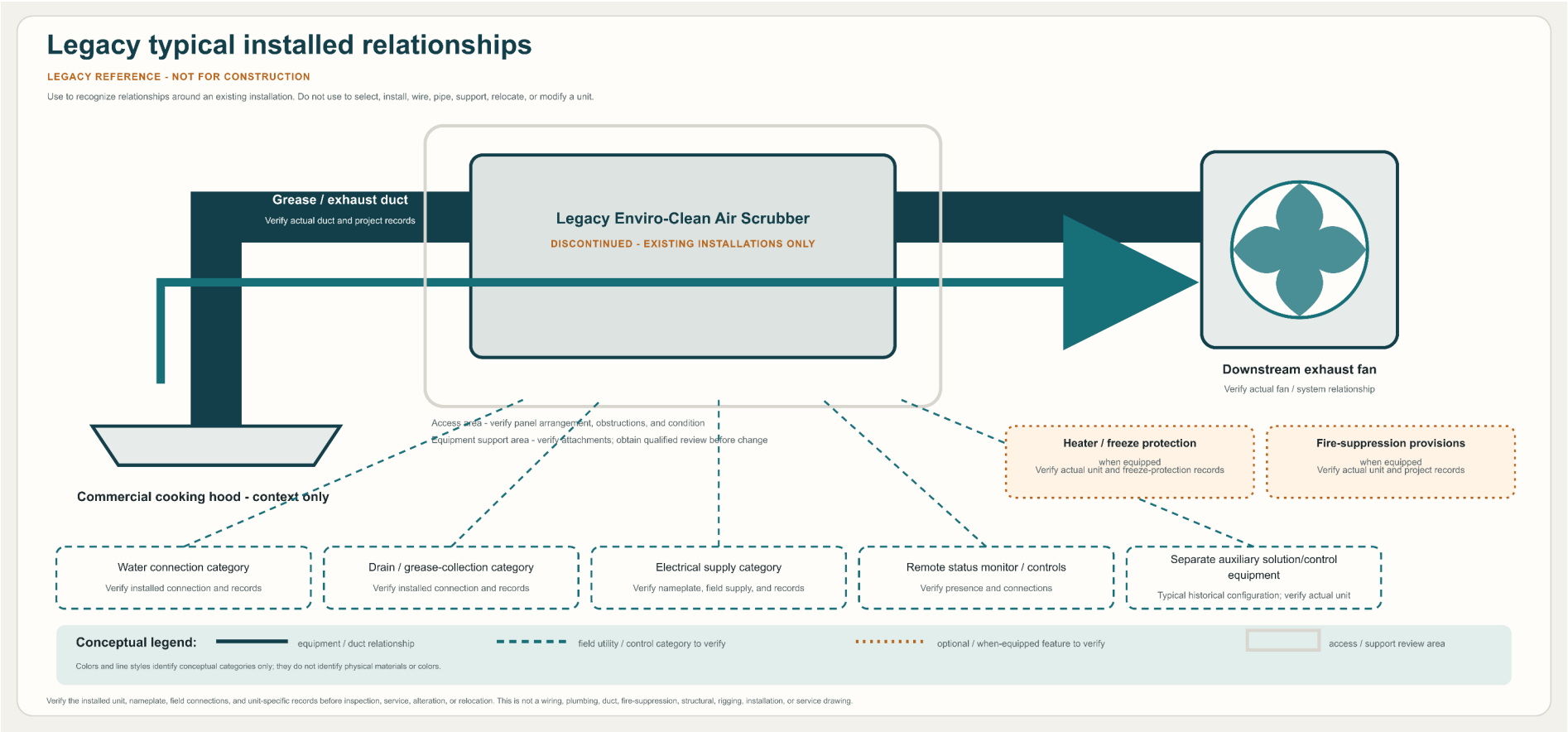


Figure 3. Legacy typical installed relationships - legacy reference; not for construction.

TEXT EQUIVALENT

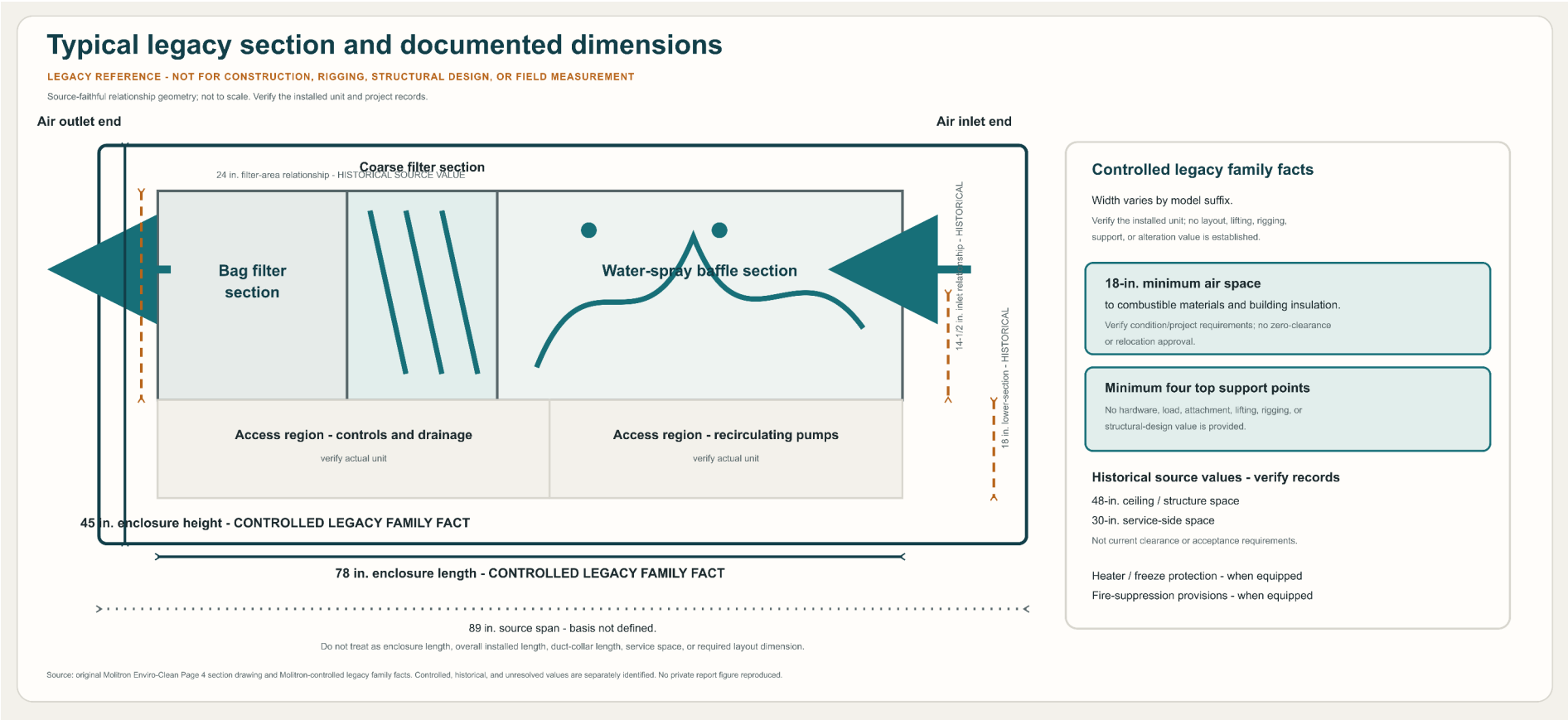
The legacy relationship begins at the commercial cooking hood and connected grease/exhaust duct. The duct passes through the Enviro-Clean unit and continues toward a downstream exhaust fan. Field relationships may include water, drain/grease collection, electrical supply, remote monitoring and controls, and separate auxiliary solution/control equipment. Heater or freeze-protection equipment and fire-suppression provisions may be present when equipped. Access, support, utilities, controls, optional equipment, and every field connection must be verified on the installed unit and against unit-specific records.

Diagram line styles and colors identify conceptual categories only. They do not identify physical duct, wire, tube, pipe, liquid, or material colors. The figure is not to scale and provides no connection size, temperature, amperage, conductor, terminal, tube, conduit, clearance, support load, or field-work instruction.

Source: relationship-level redraw of original Molitron Enviro-Clean documentation, qualified by the Molitron-controlled legacy record. Verify the installed unit. No private report figure reproduced.

06 | SECTION & DIMENSIONS

Figure 4. Typical legacy section and documented dimensions



07 | CONNECTION CATEGORIES

Figure 5. Inlet/outlet elevations and original A-E connection categories

The original Page 5 drawing locates five lettered connection categories at the outlet end of the scrubber. The letters and source positions are preserved for existing-unit record review. The drawing is not to scale and does not provide field-work instructions.

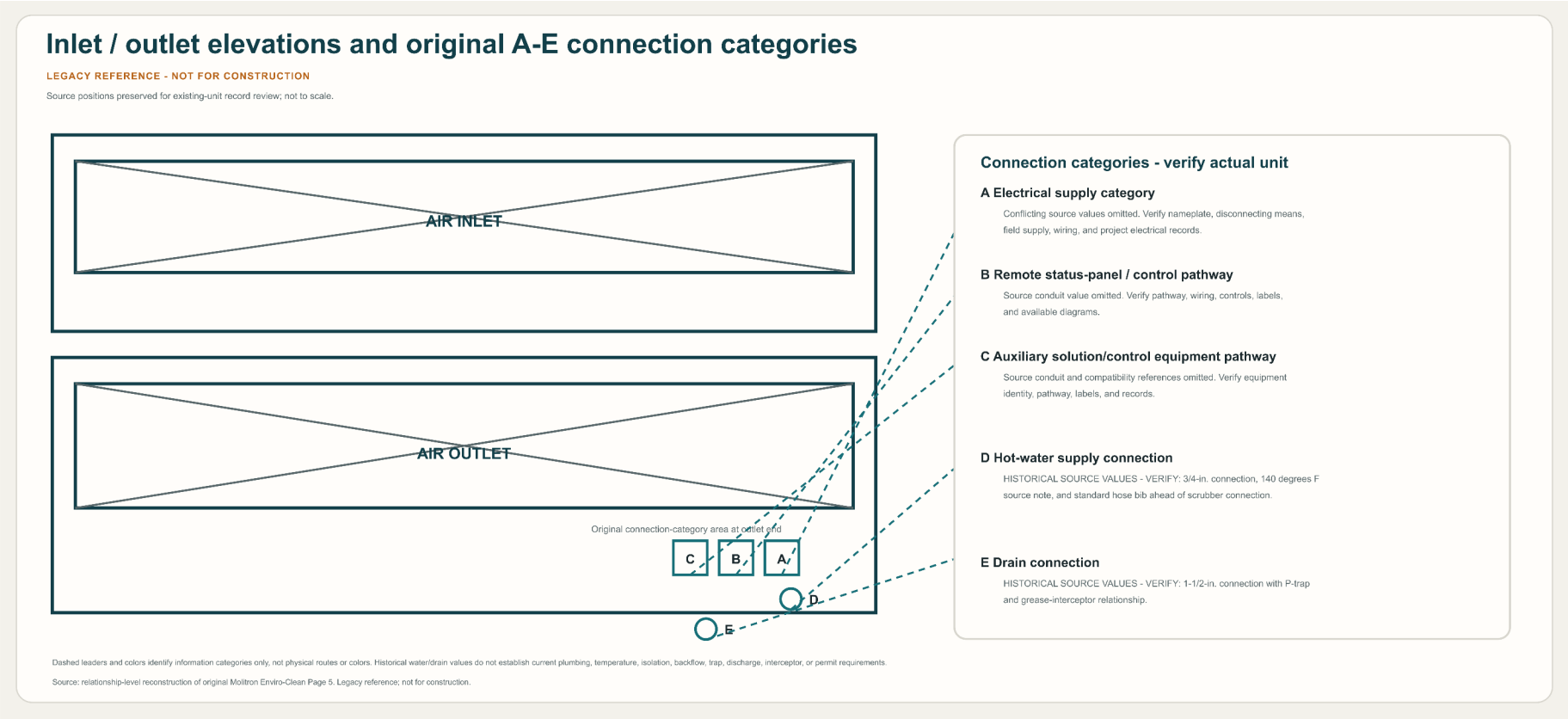


Figure 5. Relationship-level reconstruction of original Page 5 - legacy reference; not for construction.

Letter	Connection category	Evidence status and required verification
A	Electrical supply category	Conflicting source voltage/amperage omitted. Verify nameplate, disconnecting means, field supply, wiring, and project records.
B	Remote status-panel / control pathway	Source conduit value omitted. Verify pathway, wiring, controls, labels, and available diagrams.
C	Auxiliary solution/control equipment pathway	Source conduit and compatibility references omitted. Verify equipment identity, pathway, labels, and records.
D	Hot-water supply connection	Historical source values - verify: 3/4-in. connection, 140 degrees F source note, and standard hose bib ahead of scrubber connection.
E	Drain connection	Historical source values - verify: 1-1/2-in. connection with P-trap and grease-interceptor relationship.

Historical water and drain values do not establish current plumbing, temperature, isolation, backflow, trap, discharge, interceptor, or permit requirements. The figure intentionally omits inlet/outlet subdivision dimensions, sprinkler details, electrical values, conductor and tube information, conduit sizes, inferred routes, and physical-color meanings.

Source: relationship-level reconstruction of original Molitron Enviro-Clean Page 5. Legacy reference; not for construction.

08 | VERIFY BEFORE WORK

Verify before inspection, service, alteration, or replacement planning

ELECTRICAL SHOCK HAZARD

Disconnect power before servicing. Qualified personnel must use the installed unit's nameplate, markings, available instructions, project documents, and appropriate safe-work procedures.

Verify on this unit

Item	What the existing owner or qualified reviewer should locate
Equipment identity	Complete model, serial/job information, nameplate, applicable equipment mark, overall photographs, and evidence of modification
Enclosure and access	Access-panel arrangement, obstructions, surrounding materials, corrosion, damage, and current service access
Electrical	Installed supply, disconnecting means, controls, status equipment, wiring, sensing, labels, and available diagrams
Water	Installed supply, isolation, temperature, connection, hose bib, and any backflow device or project record
Drain / grease collection	Installed drain, trap, discharge, grease-interceptor or sump relationship, and available plumbing records
Internal functional sections	Water-spray/baffle area, coarse and bag filter sections, pumps, piping/manifold, drainage, and condition as accessible to qualified personnel
Duct and fan	Upstream/downstream duct relationship, fan information, supports, and evidence of prior duct or fan changes
Equipment support	Existing support points, attachments, structure, corrosion, damage, and available structural records
Heater / freeze protection	Presence, condition, labels, and records when equipped
Fire suppression	Installed provisions, project drawings, permits, inspection/service records, and responsible party when equipped
Auxiliary equipment	Status monitor, control or solution enclosure, installed equipment labels, and available product or SDS records
Project record	Installation drawings, permits, inspection records, service history, alteration records, and prior owner information

Responsibility for an existing installation

- Owner or facility manager: preserve records, control access, document observed conditions, and engage qualified help.
- Qualified service personnel and trades: inspect the actual unit and perform discipline-specific work within their scope using applicable records and safe-work practices.
- Engineer or project team: evaluate loads, fan and duct effects, utility changes, clearances, support, alteration, relocation, or replacement when design review is required.
- Authority having jurisdiction: determines applicable permits, inspections, and project acceptance.
- Molitron: may identify what legacy records or information are available for the identified unit.

Contact Molitron about legacy information

Provide the model, serial or job information, clear nameplate and unit photographs, available project/service records, installation context, and a concise description of the question or observed condition. Availability depends on the specific equipment, surviving records, and request. This reference does not promise parts, chemicals, troubleshooting, response time, field service, retrofit approval, warranty coverage, or continued support.

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Document	Revision	Date	Status
EC-TECH-2026	Rev A	July 2026	FINAL

Legacy equipment reference for existing installations only. Project-specific work requires the installed unit, applicable records, qualified parties, and authority having jurisdiction review as required.