

Automated Air Distribution Manifold

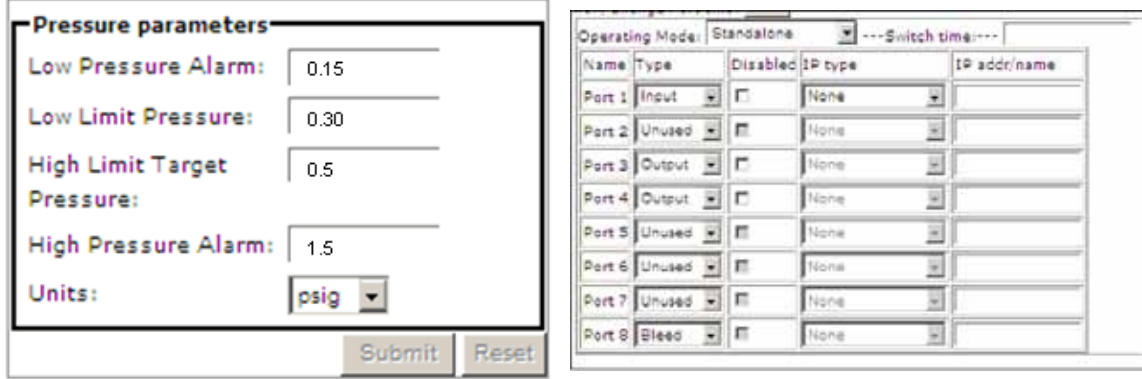
ASM-1 SMART MANIFOLD with AC Power Supply

Packing List

| Qty | ETI P/N | Description |
|-----|---------|---|
| 1 | 23658 | ASM-1 Smart Manifold, AC Power Supply |
| 1 | 24303 | Documentation CD ROM, ADH NETCOM and ASM-1 Smart Manifold |
| 1 | 23681 | ASM-1 Smart Manifold Installation Sheet (this document) |
| 1 | 23678 | ASM-1 Accessory Kit |
| 2 | 18198 | 1/8" NPT to 1/4" Barbed Brass Fitting |
| 2 | 23428 | 1/8" NPT to 3/8" Barbed Brass Fitting |
| 4 | 23245 | Mounting Bracket |
| 1 | 17618 | Power Cord |
| 8 | 11040 | Rack-mounting screw (#8-32) |
| 8 | 10641 | #8 Split Washer |

Connections

- Ports are factory configured as: Port 1 – Input; Ports 3 and 4 – Outputs; Port 8 – Bleed Valve. Ports 2, 5, 6, and 7 are factory configured as Unused. Settings may be changed, but use these initially.
- For the dehydrator, connect a 1/8" NPT to 3/8" fitting to Input Port 1 using Teflon thread tape.
 - For the equipment lines, connect fittings as needed to Output Ports 3 and 4 using Teflon thread tape. Refer to Instruction Manual for more information.
 - Connect required data and alarm relay ports. RS-422 and RS-232 ports may require configuration changes via the web interface. See Instruction Manual for more information.
 - Connect AC power cord. System can be connected to 100 VAC – 240 VAC power without requiring any configuration change.
 - Configure Smart Manifold as described on this Installation Sheet, then shut off Manifold power.
 - Configure system dehydrator(s) as needed. Turn Smart Manifold power back on.

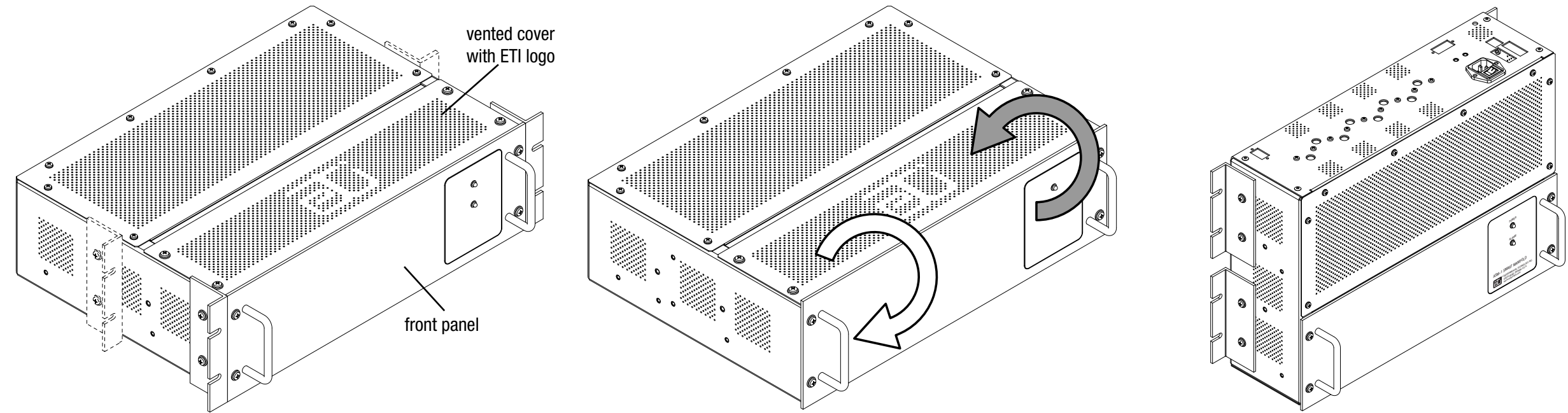
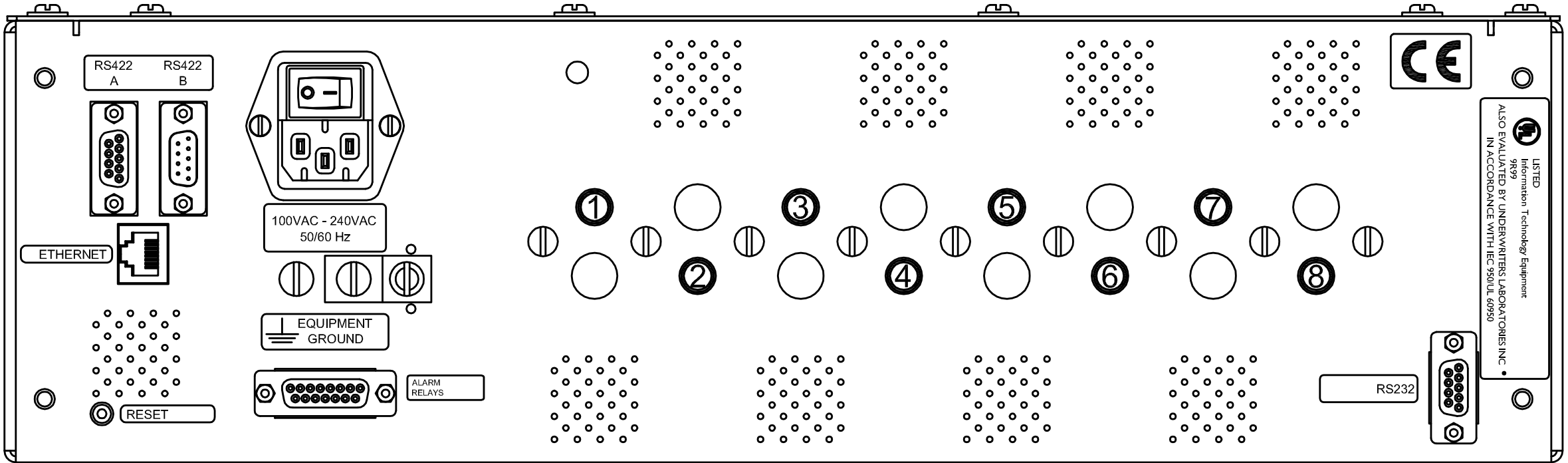


The first screenshot shows the 'Pressure parameters' page with fields for Low Pressure Alarm (0.15), Low Limit Pressure (0.30), High Limit Target (0.5), High Pressure Alarm (1.5), and Units (psig). The second screenshot shows the 'Operating Mode' dropdown set to 'Standalone' and a table for port configuration.

| Name | Type | Disabled | IP type | IP address |
|--------|--------|--------------------------|---------|------------|
| Port 1 | Input | <input type="checkbox"/> | None | |
| Port 2 | Unused | <input type="checkbox"/> | None | |
| Port 3 | Output | <input type="checkbox"/> | None | |
| Port 4 | Output | <input type="checkbox"/> | None | |
| Port 5 | Unused | <input type="checkbox"/> | None | |
| Port 6 | Unused | <input type="checkbox"/> | None | |
| Port 7 | Unused | <input type="checkbox"/> | None | |
| Port 8 | Bleed | <input type="checkbox"/> | None | |

Configuring the Smart Manifold System

- Consult your System Administrator or IT Department for information regarding connecting to or communicating with the Smart Manifold. The ASM-1 Smart Manifold Ethernet communications run at 10Base-T data rate and half duplex. It is recommended that the network interface to the ASM-1 Smart Manifold is manually set to these parameters and NOT to an autoconfigure mode.
- Connect the ADH NETCOM dehydrator(s) and equipment lines after configuration so the system does not go on and off while configuring. Refer to the help screens.
- Factory settings reflect most installations and might not be the best settings for your needs. Use the default settings initially, then change settings as desired for your own requirements.
- Using an Ethernet cable, connect to the Smart Manifold from a PC. A cross-over cable or switch is recommended. With a web browser, call up Smart Manifold using the IP address 192.168.52.9.
 - From the Main Page, select Configuration.
 - Select Show/Change Port Info, then confirm settings. See Instruction Manual for details.
 - Select Redundant, Parallel, or Standalone based on screen prompts. With ADH NETCOM dehydrator(s), use Redundant or Parallel. Press Submit to enter the settings.
 - From the Configuration Page, select Pressure Limits and confirm settings with your System Administrator. Change settings if desired, then press Submit.
 - On the IP/Serial Information page, set IP address or network name. Obtain Mask and Gateway settings from System Administrator. Note settings, then shut off Smart Manifold.



Rack Mounting

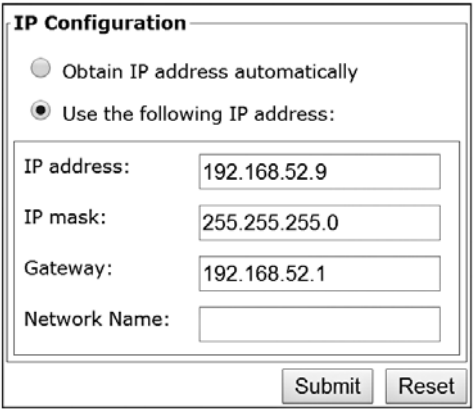
The Smart Manifold provides positions for flush-mounting (for dual-post racks and enclosures) or center-mounting (for single-post racks). If using mounting rails (not supplied), do not install the mounting brackets.

Wall Mounting Configuration

To configure the Smart Manifold for wall mount installation, remove the front panel and the portion of the vented cover with the ETI logo. Reinstall the front panel so that it will be in the new front position once the dehydrator is oriented for wall mounting. Reinstall the small vented panel so that it will be in the new bottom position.

Wall Mounting

Ensure the mounting surface and hardware are suitable to support a static load of approximately four times the weight of the unit, or 44 pounds (20 kg). Use four appropriate 5/16" mounting hardware to fasten the unit and ensure stable mounting. The Smart Manifold is equipped with four brackets for wall mounting.



The screenshot shows the 'IP Configuration' page. It has two radio buttons: 'Obtain IP address automatically' (selected) and 'Use the following IP address:'. Below the radio buttons are input fields for IP address (192.168.52.9), IP mask (255.255.255.0), Gateway (192.168.52.1), and Network Name. There are 'Submit' and 'Reset' buttons at the bottom.

System Set-Up

- Connect equipment lines to Smart Manifold, then dehydrator(s). See Connections section. Leave power switches OFF and plug each device into surge-protecting power strips.
- Connect to the dehydrator(s) and change dehydrator IP address(es) as needed. Perform Re-set Procedure as described in Instruction Manual if needed and change dehydrator IP address to 192.168.52.9, then complete configuration. Configure each dehydrator as entered on Smart Manifold Port Info page.
- Following configuration of each dehydrator, turn Smart Manifold power back on and begin system operation.

Questions & Comments

For technical help, questions or comments concerning this product or any Environmental Technology, Inc. product contact Customer Service 8:00 a.m. – 5:00 p.m. EST.

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