

MOJAVE[®] LT

Dry Vacuum System

Mojave 2LT

Part No: H4332

Installation Instructions

Important Information

Service Personnel

All personnel servicing the MOJAVE LT system must read and understand the Operator's Manual before operating or performing any service of the unit. Only a trained technician from a qualified Air Techniques dealer should perform any service.

Power Removal

Never work on equipment connected to live power. Remove power by disconnecting mains power to the unit prior to performing any replacement procedures.

Warnings and Symbols



Note, e.g. specific instructions regarding efficient and cost-effective use of the unit.



Wear protective gloves



Wear protective goggles



Warning – risk of dangerous electric voltages



Biohazard warning



Warning – hot surfaces

Introduction. This document provides instructions for combining two MOJAVE LT Dry Vacuums by either placing them side by side or stacking them on top of one another. The process of installing two systems requires combining the Vacuum Inlet, Water Outlet and Exhaust connections necessary for operation using kit P/N H4332.

Side by Side 2LT Configuration

When installing a MOJAVE 2LT system or upgrading an older Mojave LT to a Mojave 2LT, the following installation instructions should be referred to.

Mojave LT Instructions for Side by Side

Installing two MOJAVE LT Dry Vacuum units side by side can be achieved on the ground or on an optional Utility Stack Rack XL (P/N 56600).

1. Install the units next to one another with a gap of 0.5 inches between the units. (See Figure 1)

Utility Stack Rack XL

Use proper safety measures when installing heavy equipment on elevated surfaces like the Utility Stack Rack XL.

1. Remove the feet of the MOJAVE LT unit which are screwed in on the bottom of the unit's chassis.
2. Place each unit on the Utility Stack Rack XL by aligning the rails on top of the stack with the threaded feet holes on the bottom of each unit's chassis.
3. Screw the threaded feet in from the underside of the rail and into the threaded holes on the chassis so the unit is secured in place.
4. Repeat for both units with a gap of 0.5 inches between each mounted unit.

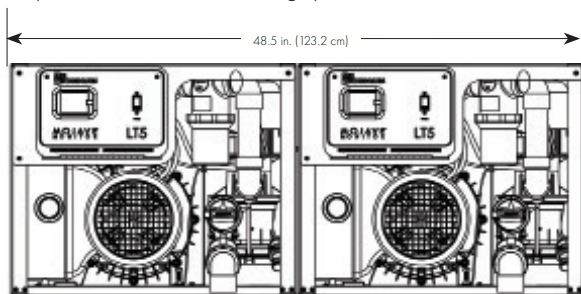


Figure 1. Side by Side 2LT

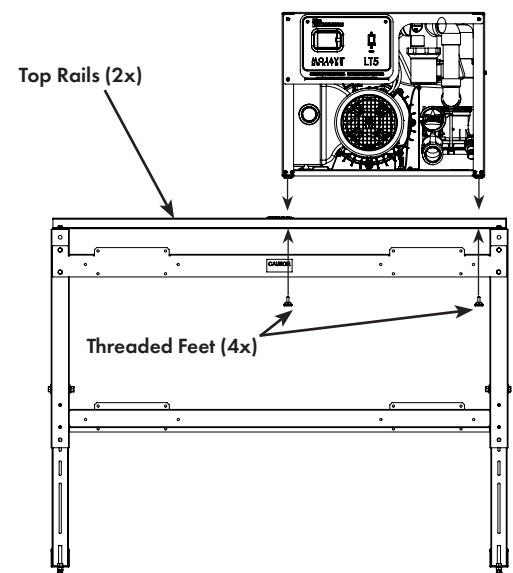


Figure 2. Installing on Utility Stack Rack XL

Stacked 2LT Configuration

Modifying the chassis of an older Mojave LT for stacking (if required)

When upgrading an older MOJAVE LT to a stacked MOJAVE LT a few modifications may be required.

- The MOJAVE LT system at the bottom may require 3 holes to be drilled into the top of its frame.
- The MOJAVE LT system installed on top may require 3 holes to be drilled into the bottom of its frame.

Tools needed:

1. Drill
2. Center Punch
3. A "H" size drill bit (.266")
4. Provided Hardware

Bottom Mojave LT Instructions:

1. Remove the chassis bottom grips on the MOJAVE LT (see figure 3) by removing the two screws securing them in place.

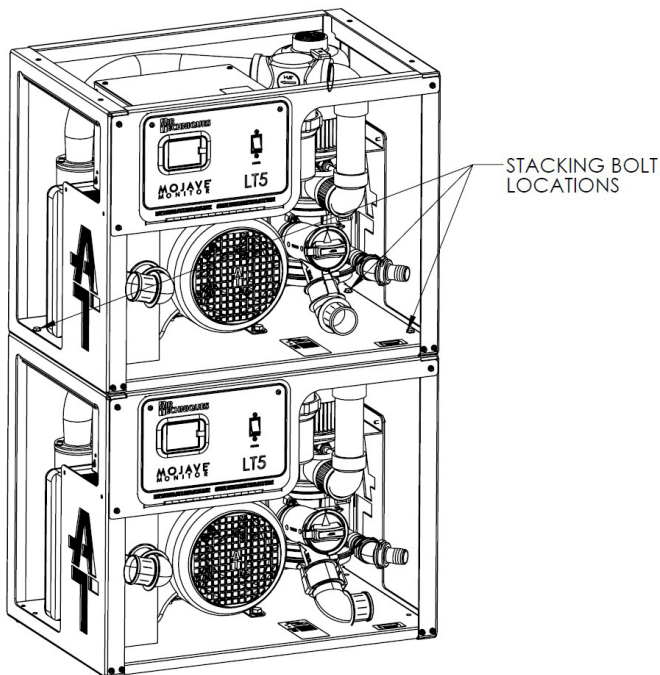


Figure 4. Drilled Hole Locations

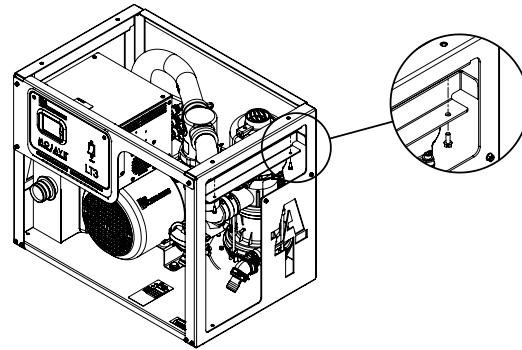


Figure 3. Chassis bottom grips

2. Measure and mark the centers of the three (3) drill holes using Figure 5 to determine hole locations.
3. Drill completely through the bracket using the "H" size drill bit.
4. Re-Install the chassis bottom grips.

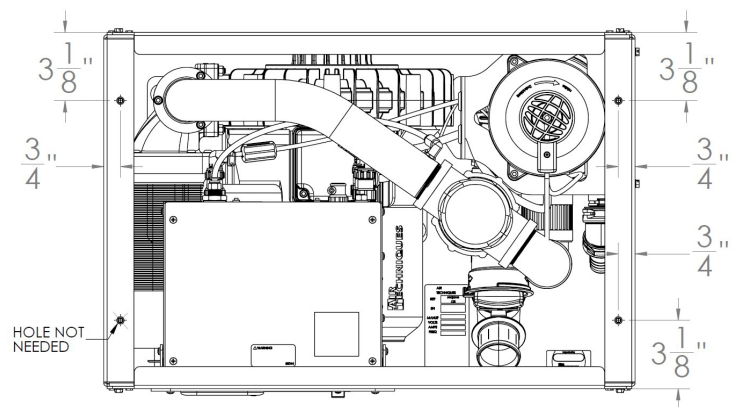


Figure 5. Drilled Hole Dimensions

Top MOJAVE LT Instructions:

1. Disconnect all hoses connected to the Air/Water separator.
2. Temporarily remove the Air/Water Separator by removing the three (3) bolts holding the Air/Water Separator to the chassis. Place Air/Water Separator aside.
3. Measure and mark the centers of the (3) drill holes using the Figure 5 to determine hole locations.
4. Drill completely through the bracket using the "H" size drill bit.
5. Re-Install the Air Water Separator removed in Step 2.

MOJAVE 2LT Installation Kit, P/N H4332

Part No.	Description	Qty	Part No.	Description	Qty
H4330	MOJAVE 2LT, INLET MANIFOLD	1	56339	PCONN; UNION TEE, 1/4PUSH	1
41656	WASHER, LOCK; M8, STEEL ZINC PLATED	3	51402	PCONN; PLUG, PLASTIC, 1/4PUSH	2
33059	SCREW; HEX TAP BOLT, 1/4-20 X 1-5/8" LONG, GRADE-5, FULLY THREADED, ZINC PLATED	3	H4340	KIT: MOJAVE 2LT STACKED CONFIGURATION; MOUNTING EQUIPMENT	1
56778	DURR CONNECT, Y-DISTRIBUTOR, "k" SERIES	1	H4063	INLET ELBOW, 45 DEGREES, MOJAVE LT	3
H4056	CLIP, SMALL	3	51453	TUBING; URETHANE, 1/4OD, TRBLUE	20FT
56776	DURR CONNECT, ADAPTER 25mm, "k" SERIES	3	H4146	KIT; MOJAVE LT FIRMWARE UPGRADE	1
H4058	O RING, 20MM DIA.	3	H4082	KIT; MOJAVE 2LT INTERFACE HARDWARE	1

Installation Procedure. Add a MOJAVE LT Dry Vacuum to an existing system by performing the following procedure.

1. Power Removal.

- Disconnect Mains power from the existing unit. Hardwired units require complete Mains power removal and a licensed electrician may be necessary.
- Place the MAIN circuit breaker on front of electrical panel to the OFF position.

2. Existing Hose Removal.

- Disconnect and remove all hose connections from existing MOJAVE.
- Set hoses aside for later use.

3a. Side by Side MOJAVE to be Installed.

- Install MOJAVE LT units side by side on ground or on Utility Stack Rack XL (See Figures 1 & 2)

3b. Stack MOJAVE to be Installed.

- Stack the new MOJAVE on top of the existing MOJAVE.
- Align three screw holes (See Figure 4)
- Secure using three (3) supplied screws, flat washers, and split washers from kit (P/N H4332).

4. Suction Inlet Manifold Installation.

- Decide whether the installation will be side by side or stacked.
- For stacked only:** Unscrew the bolt on the right side of bottom pump's chassis that sits below the two bolts on the top's. Screw mounting assembly (P/N H4340) in the threaded hole the bolt was in. (See Figure 6)
- Assemble inlet manifold (P/N H4330) using Figure 7 for stacked, Figure 8 for Utility Stack Rack XL, or Figure 9 for ground installs. Use the longer PVC piece for side by side installation and the shorter for stacked installs.
- Once assembled, completely unscrew compression fitting on the ends of the manifold. Take the loose ends with their rubber gasket and slip a 45° elbow (P/N H4063) into each end so the orientation has the rubber gasket facing away from the elbow.
- Ensure each gasket is seated properly and screw the ends back on the manifold
- Take the other end of the 45° elbow and secure it on the inlet of both MOJAVE unit's Air Water Separator by slipping both on.
- Secure the manifold with the mounting assembly for stacked installations and with zip ties for side by side installations.
- Make sure all flexible couplings are tightly fastened and that mounting of the manifold is secure.
- Connect supplied poly-tube from vacuum port tee-fitting and connect each unit transducer port respectively.

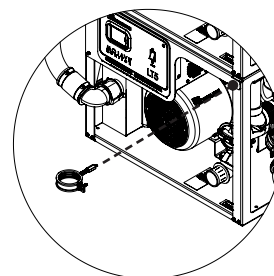


Figure 6. Mounting Assembly

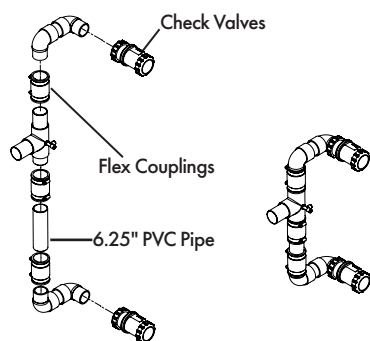


Figure 7. Stacked Inlet Manifold for Vertical Stacks

Figure 8. Side by Side for Utility Stack Manifold

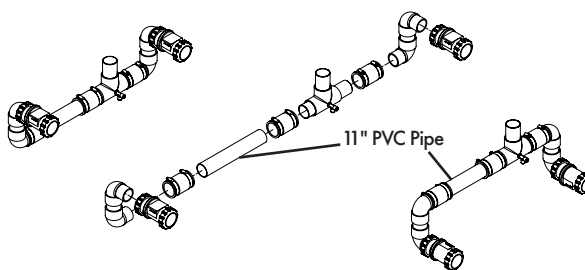


Figure 9. Side by Side Manifold for ground

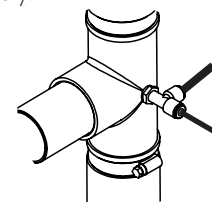


Figure 10. Vacuum Ports

5. Water Outlet Connection.

- Assemble the drain connections to the outlet of the Air Water Separator with the most suitable fittings for the system's drain with the supplied fittings in the installation kit.
- Connect water outlet hoses together using the Y-Distributor connector (P/N 56778) from kit. (See Figure 11)

6. Heat Exhaust Connection.

- Connect the exhaust 'Wye' assembly and secure on the left side of the top vacuum. (Wye Exhaust Manifold and Drip Assembly not included in kit).
- Connect the top exhaust hose to the upper 'WYE' and the bottom exhaust hose to the lower 'WYE'. (See Figure 12)

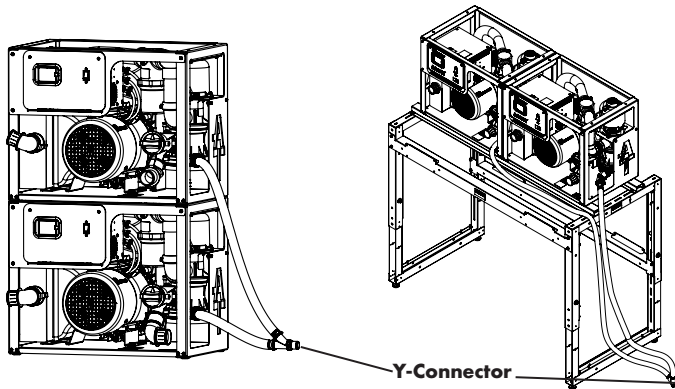


Figure 11. Water Outlet Connection

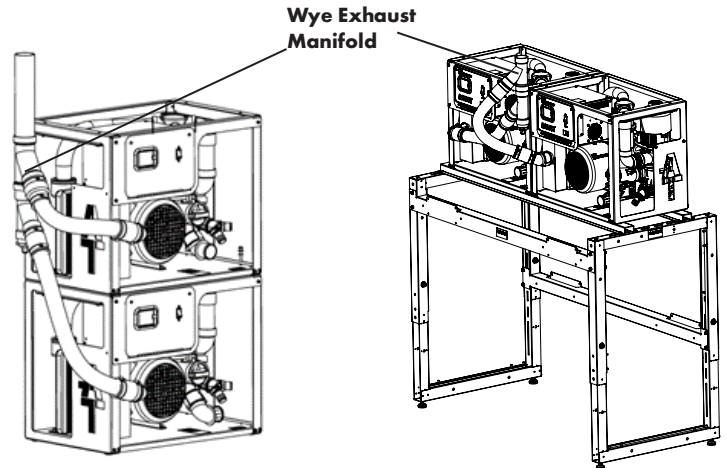


Figure 12. Heat Exhaust Connection

7. CANBUS and Power Connection.

- Locate the additional kit, P/N H4082, which includes the hardware needed for interfacing the two systems.
- Plug one end of the CAT5/6 cable into any open port on either unit. Make sure that the cable is inserted into the AUX LINK port 1 or 2 and NOT the Ethernet port.
- Insert the other end of the CAT5/6 cable into an open AUX LINK port of the second unit.
- If not already inserted previously, take the two RJ45 Termination Resistors from the hardware kit and insert them into the remaining AUX LINK port on each device.
- Connect each MOJAVE LT to power. Hardwired units require complete Mains power and a licensed electrician may be necessary.
- On the Master device screen click on System Settings->Access Level->Technician and Save.
- Select System Settings->Parameters->Auxiliary/Main and set the Master Unit as "Main Control Unit".
- Repeat steps f through g for the Auxiliary device, this time set the Auxiliary unit as "Auxiliary Unit".

8. System Operation Check.

- Place the MAIN circuit breaker of each MOJAVE to the ON position.
- Verify both vacuums are operating and there are no air or fluid leaks.
- For old MOJAVE LT systems, make sure latest firmware is up to date, otherwise use included upgrade kit (P/N H4146).

