

Part Nos: LT3M and LT5M

PRE-INSTALLATION GUIDE

All pumps comply with NFPA 99C level 3 requirements. All installations must conform to local codes.

Doctor:	
Address:	
Phone#:	
Dealer:	
Dealer Address:	



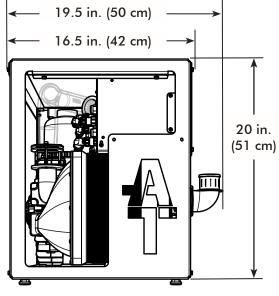


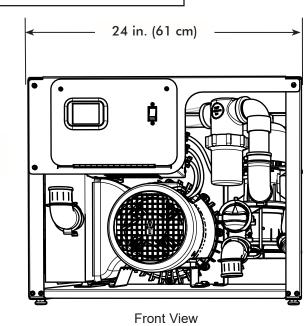
Recommended Number of Simultaneous Users						
PN	Simultaneous Users	SCFM @ 7 inHg	HP			
LT3M	2 to 3	28	1.4			
LT5M	3 to 5	42	1.7			

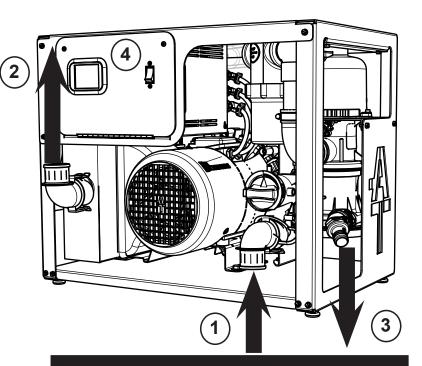
Note: Vacuum cuspidors and vacuum sinks cannot be connected to the LT system. Their use will damage the system and void the warranty.

UL60601-1 Classification

Protection against electrical shock (5.1, 5.2) Class I, Transportable, Continuous Operation. No applied parts. Protection against ingress of liquids-Ordinary Equipment not suitable for use in the presence of flammable anaesthetic mixture with air or with oxygen or nitrous oxide.







MOJAVE LT Dry Vacuum System Operation

- 1. Gas/Liquids/Solids from the Treatment Room into Air/Water Separator.
- 2. Heat Exhaust to Outside Vent
- 3. Liquids/Solids from the Air/Water Separator to Sewer Drain
- 4. The LCD touch screen provides the operational user interface for the MOJAVE LT system.

Recommended Space Requirement				
Unit Dimensions:				
Height	20 in. (51 cm)			
Width	24 in. (61 cm)			
Depth	16.5 in. (42 cm)			

Left Side View

Electrical	LT3M & LT5M Requirement		
Voltage Rating Volts AC	220 Volts, Single Phase AC, 60 Hz		
Voltage Minimum/Maximum	198/242 Volts AC		
Wire Size AWG Minimum Gauge	#12 AWG		
Minimum Circuit Breaker Rating	20A		
Incoming Power	Hard Wire Connection (unit is supplied a 6 foot BX cable)		
Remote (Low Voltage Wiring)	#18 AWG Wire Connection between the pump and the Remote Switch Panel. Use of a high voltage switch not allowed.		
Plumbing	LT3M & LT5M Requirement		
Exhaust Vent Pipe	1 ½" PVC Sch. 40		
Minimum Suction Line Pipe	1″ PVC Sch. 40 for LT3M	1 ½" PVC Sch. 40 for LT5M	
Maximum Suction Line Pipe (See note 2)	1 ½" PVC Sch. 40 for LT3M	2" PVC Sch. 40 for LT5M	
Riser Pipe	1⁄2" PVC Sch. 40		
Vacuum Line Termination	1 ½″ Spigot		
Drain Hose	A full gravity 1" corrugated drain required.		
Network	LT3M & LT5M Requirement		
Network Cable	1 Cable per MOJAVE LT		

MOJAVE LT vacuum pumps comply with NFPA 99C level 3 requirements.

SUB FLOOR INSTALLATION -

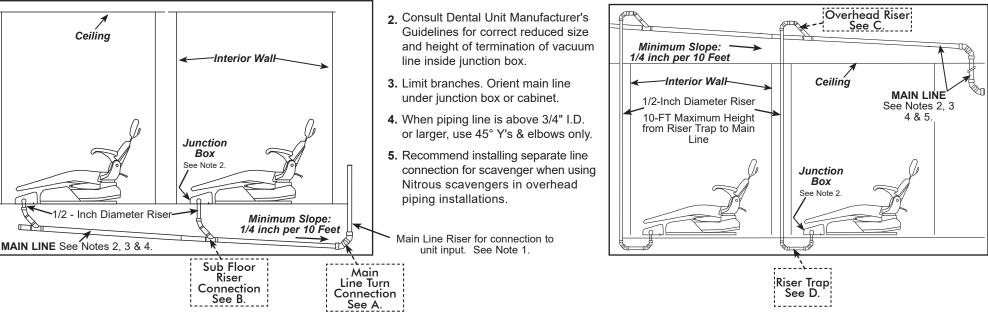
Recommended system installation layout should be used whenever possible.

Notes:

1. 10-foot Maximum Height from Main Line to unit.

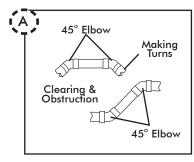
OVERHEAD INSTALLATION -

Alternate system installation layout should be used only when unable to use the sub-floor plumbing layout.

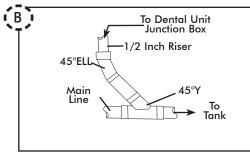


CONNECTOR DETAILS - ALL INSTALLATIONS

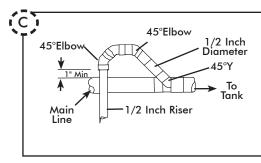
- Use only 45° elbows to make turns in main line.
 - Make sure to use the proper pipe type for associated system.
- If piping is diverted to clear an obstruction, <u>DO NOT MAKE A TRAP</u>. See detail A, Main Line Turn Connections.
 - DO NOT use standard 90° elbows.

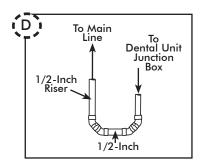


Main Line Turn Connections



Sub Floor Riser to Main Line Detail





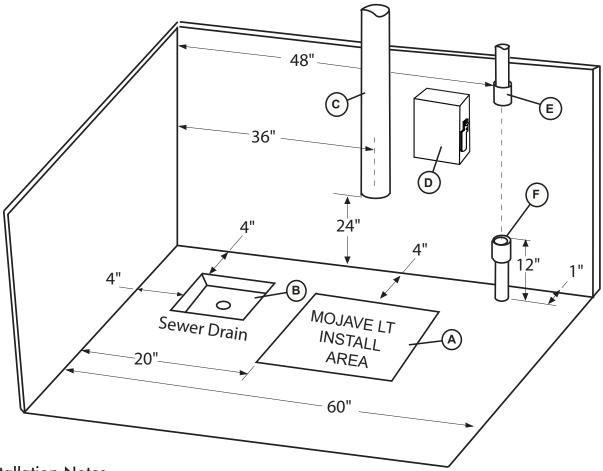
Overhead Riser to Main Line Detail (Prevents liquids from draining down the 1/2" riser.)

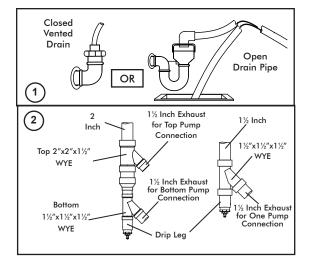
Riser Trap Detail (45° Elbows)

Important:

All installation pipes and fittings provided by plumber. All installations must conform to local codes.

TYPICAL EQUIPMENT ROOM FLOOR PLAN LAYOUT





Installation Notes.

- A. PUMP INSTALLATION SPACE Area for MOJAVE LT pump in typical installation.
- **B.** SEWER DRAIN Provide a drain for the removal of waste liquids from the Air/Water Separator assembly. Use an open drain pipe (1 ½ inch P-Trap with 1 inch air gap or floor sink) or a closed vented drain. See Figure above.
- C. HEAT EXHAUST Refer to Figure above and see Plumbing Requirements for the exhaust vent line required for MOJAVE LT. Schedule 40 pipe can be used on MOJAVE LT.
- D. PUMP ELECTRIC SERVICE The MOJAVE LT pump is wired directly with a dedicated 220V, 20 AMP, single phase 60 Hz circuit. If Main Circuit panel is not located in equipment room, a disconnect box with approved ground is needed for each pump. Disconnect boxes should be mounted no more than 3 feet of the installation center line.
- E. OVERHEAD INSTALLATION VACUUM LINE See Plumbing Requirements for MOJAVE LT connection.
- F. SUB FLOOR INSTALLATION VACUUM LINE See Plumbing Requirements for MOJAVE LT connection.

HEAT EXHAUST CONNECTION NOTES

1. EXHAUST VENT LINE - The exhaust vent line required for MOJAVE systems.

Use PVC Schedule 40 pipe for the facility vent line.

Do not make a trap in the exhaust vent piping. Do not use 90 ° fittings. Also see Exhaust Vent Protection and Exhaust Vent Requirements below.

- 2. PUMP EXHAUST VENT CONNECTION Connection between the pump heat exchanger output and exhaust vent piping is typically made via the supplied 1½ inch tubing.
- **3. DRIP LEG and EXHAUST VENT ASSEMBLY** The supplied Drip Leg and Exhaust Vent Assembly must be installed at the lower end of the vent pipe to collect condensation produced during pump operation. The bottom of the Y connector should be located 18 inches from floor. Attach the drain tube to the drip leg quick-connect fitting to allow drainage into floor drain/sink.

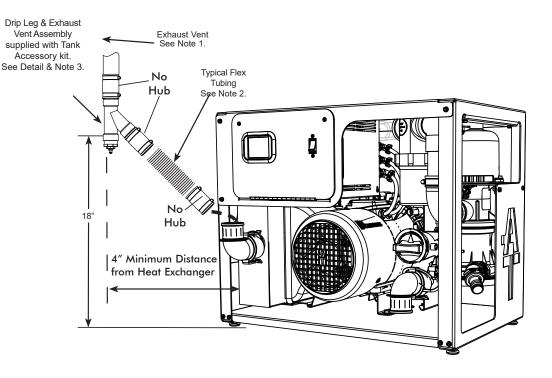
Exhaust Vent Protection.

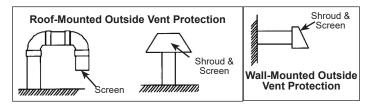
If the exhaust piping is venting to the outside of the building, precautions must be taken to protect the equipment room from weather elements and animal intrusion. This can be accomplished by using one of the three methods shown on the right.

Exhaust Vent Requirements.

The MOJAVE equipment must be used in a controlled-temperature environment. Maintain equipment room temperature between 40 and 105 degrees Fahrenheit. An exhaust fan is necessary if room temperature is not maintained by other methods.

Adequate forced ventilation must be provided across the unit by placing an appropriate exhaust fan opposite an equivalent air intake vent. The fan should be placed higher than the associated intake vent. Recommended minimum exhaust fan requirements for each MOJAVE unit are listed to the right.





Mojave LT Product	Watts (Min)	Watts (Max)	BTU/hr (Min)	BTU/hr (Max)
LT3M	486	1,152	1,657	3,928
LT5M	486	1,188	1,657	4,051





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 - Hand Sanitizer and Lotion
 - Waterline Cleaner
 - Evacuation System Cleaner
 - Imaging Accessories
 - Chemistry
 - Processor Accessories

Utility Room

- Dry Vacuums
- Wet Vacuums
- Air Compressors
- Amalgam Separator
- Utility Accessories
- Utility Packages

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