BADGER™ LF

RAMVAC®
Badger™ LF Dry Vacuum
Preinstallation Guide

Doctor:	_____
Address:	_____
Phone No.:	_____
Dealer:	_____
Address:	_____

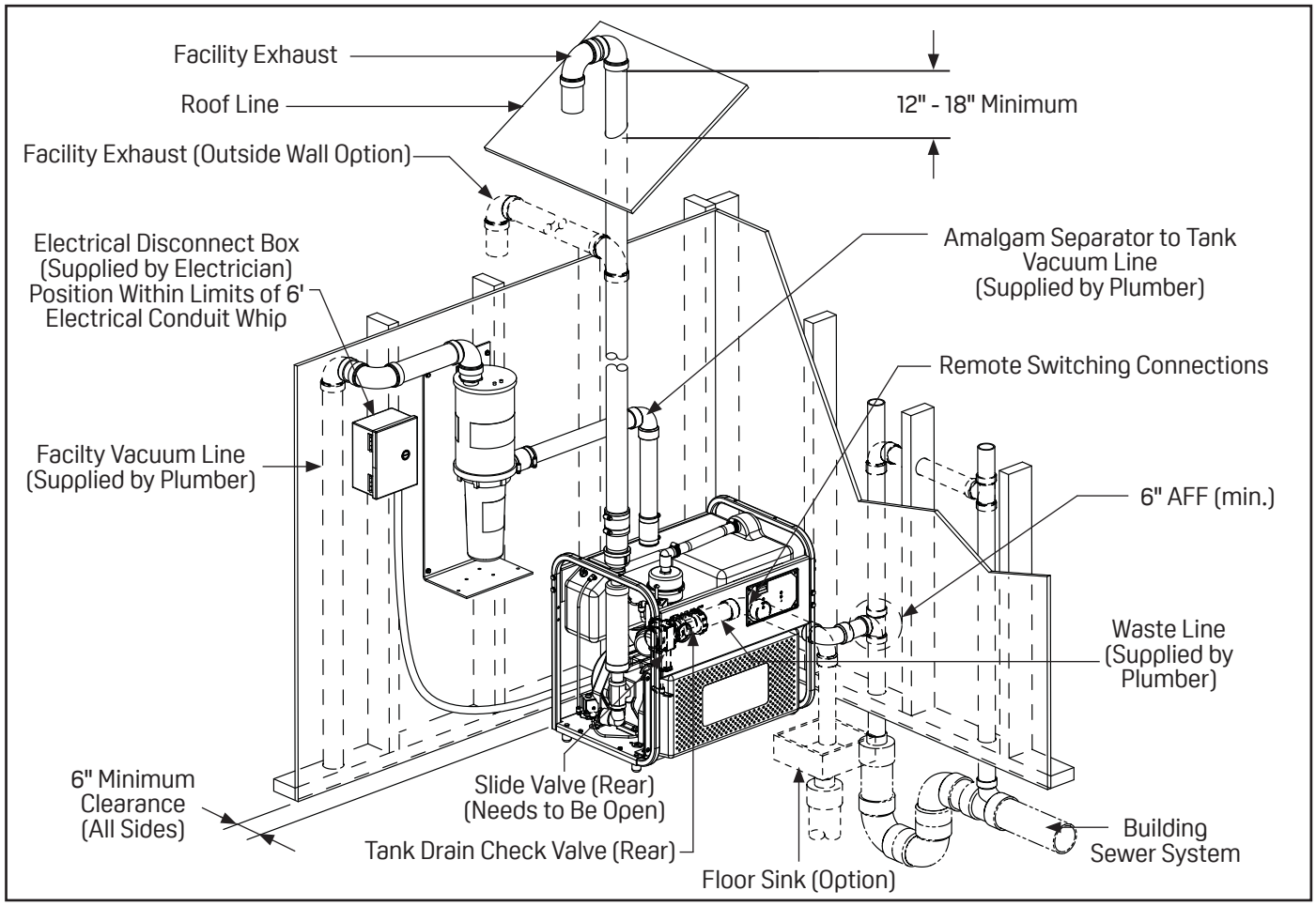
ATTENTION: It is recommended that this equipment be installed by a licensed electrical/plumbing contractor only. **All installations must conform to local and national codes.**

NOTICE

This information is not intended to replace the information found in the **User Manual**. Refer to **User Manual** for full installation, safety and precautions.

DentalEZ
INTEGRATED SOLUTIONS

Equipment Room Layout



Plumbing

Facility Exhaust Lines

- 2" schedule 80 PVC or CPVC, or metal (not tar coated) with DWV fittings or equivalent. Option: 2" schedule 40 PVC or equivalent after first 10 feet of run.
- Run dedicated exhaust line for each RAMVAC Badger LF unit installed.
- Do not connect to plumbing vents.
- Lines must be installed to prevent condensation.
- Turn outside end down toward ground and screen to prevent entry of water, debris and creatures. Locate to prevent exhaust from entering building.

Facility Vacuum Lines from Operatories

- 1½" (or larger) PVC schedule 40 with DWV fittings or equivalent.
- Minimum slope 1/4" per 10 feet.

Amalgam Separator to Tank Vacuum Line

- 1½" (or larger) PVC schedule 40 with DWV fittings or equivalent.
- Use new, clean pipe to connect amalgam separator to tank vacuum line. DO NOT reuse old or existing pipe.

Tank Drain Line

Waste pipe, slide valve and drain check valve:

- 1½" PVC schedule 40 with DWV fittings.
- Minimum slope 1/4" per 10 feet.
- Use only RAMVAC supplied 1½" drain check valve.
- Drain into building sewer system.

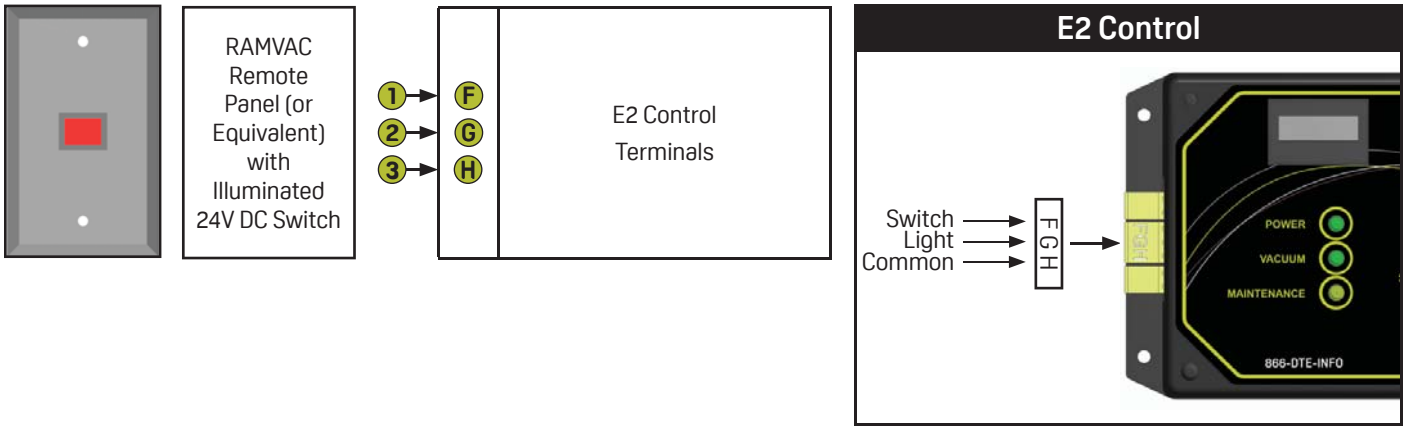
Electrical

High Voltage

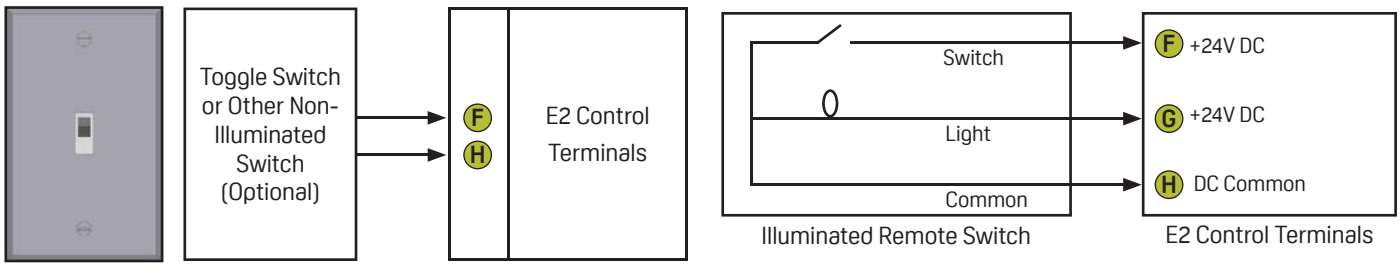
- Install a dedicated electrical circuit of sufficient capacity (see **Specifications & Site Requirements** table).
- Any means provided to isolate this device from the supply mains shall isolate all poles simultaneously. The disconnection means and overcurrent protection are to be provided by the installer. This device should always be attached to a dedicated circuit with appropriate wiring and circuit protection.

Low-Voltage Remote Switching (Recommended)

- **Low-voltage switching only.**
- 18-3 low-voltage wiring for lighted switch.
- 18-2 low-voltage wiring for non-lighted switch.
- Maximum wire length for low-voltage, 18-gauge wire is 500 feet.



Low-Voltage Remote Switching (Alternative)



Placement

- Ventilation required for room to remain between 40°F to 104°F (4.4°C to 40°C). Additional forced air and HVAC must be used if ambient temperatures do not fall into this range.
- Protect from water; controls and motor are NOT waterproof.
- Allow 6" minimum clearance on all sides for all units.
- If unit is placed in an area adjacent to office space, sound eliminating techniques should be considered for the unit.

Specifications & Site Requirements	
Model	Badger LF 2
Maximum Number of Users	4
Phase	1
Horsepower (kW)	1.5 (1.12)
Voltage Rating (Minimum/Maximum)	230 208/230
Frequency (Hz)	60
Breaker Rating Size (Recommended Amps)	15
Full Load Amps (High Eff. Motor)	6.2
Switching (Low Voltage VDC)	24
Vacuum Level (Preset kPa/Hg)	23.7 (7")
Vacuum Level (Maximum kPa/Hg)	50.8 (15")
Fusetron Size (Recommended)	FRN-8
THHN Wire Size (AWG)	12
Gauge Accuracy	ASME/ANSI B40.1 Grade B (+/-3/2/3%)
BTU/HR (Heat Released to Room)	900
Weight (Pounds/Kg)	175 (79.4)
Unit Dimensions (W×D×H) (Inches/mm)	24.7×18×23.25 (627×457×591)
Drain Valve Centerline to Floor (Inches/mm)	7.75 (197)
Sound Levels (dBA)	74
Tank Capacity (Gallons/Liters)	5 (18.9)
Operating Temperature	40°F to 104°F (4.4°C to 40°C)
Storage Temperature	0°F to 150°F (-17.8°C to 65.6°C)
Relative Humidity Range (Transport/Storage/Operation)	0-95%, No Condensing Moisture
Altitude (Operation)	70-105 kPa (Sea Level to 9,000 Ft.)
Altitude (Transport/Storage)	50-105 kPa (Equates to 18,000-1,000 Ft. Elevation Range)

ETL CLASSIFIED
Intertek
4007136

Conforms to:
ANSI/AAMI STD ES60601
Certified to:
CAN/CSA STD C22.2 NO. 60601-1

DentalEZ
2500 Highway 31 South
Bay Minette, AL 36507

Phone: 866-DTE-INFO
Fax: 251-937-0461
www.dentalez.com

PN: 7565-052A
November, 2019