BULLDOG®

RAMVAC®
Bulldog® QT Dry Vacuum
Preinstallation Guide



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

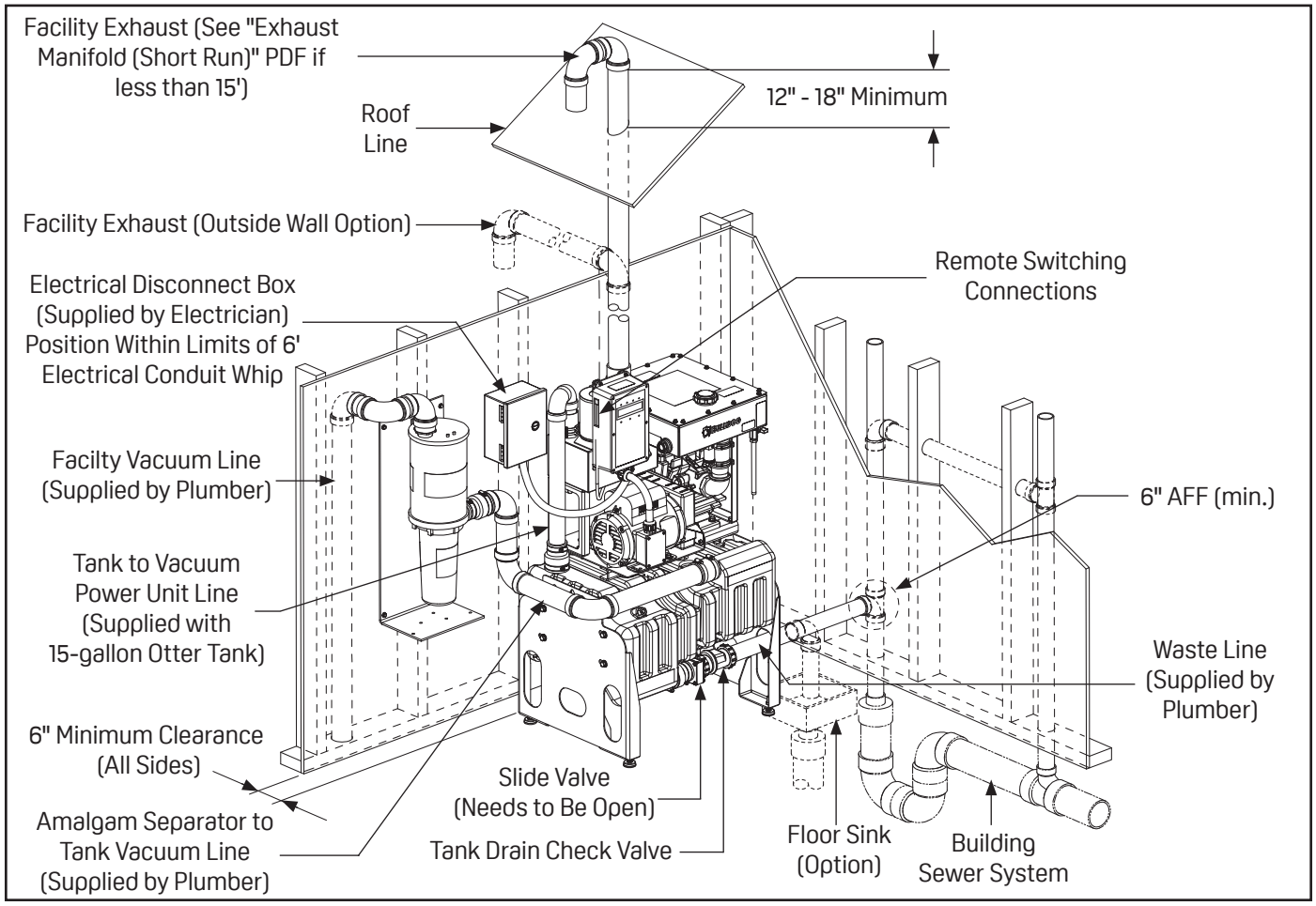
ATTENTION: It is recommended that this equipment be installed by a licensed electrical/plumbing contractor only. **All installations must conform to local and national codes.**

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 (Bulldog Vacuum with 15-Gallon Otter Tank Stacked)



Plumbing

Facility Exhaust Lines

- 2" PVC schedule 40, schedule 80, CPVC, or metal (not tar coated) with DWV fittings or equivalent.
- Slope: All horizontal lines toward the vacuum unit, a standart plumbing slope.
- Minimum exhaust length=15' from RAMVAC pump to outside end. See **"Exhaust Manifold (Short Run)"** PDF if less than 15').
- Run dedicated exhaust line for each RAMVAC 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 & Amalgam Separator to Tank Vacuum Line

- Up to five rooms: 1½" (or larger) PVC schedule 40 with DWV fittings or equivalent.
- Five to 15 rooms: 2" (or larger) PVC schedule 40 with DWV fittings or equivalent.
- Minimum slope 1/4" per 10 feet.
- Use new, clean pipe to connect amalgam separator to tank vacuum line. DO NOT reuse old or existing pipe.

Tank to Vacuum Power Unit 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

- 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.

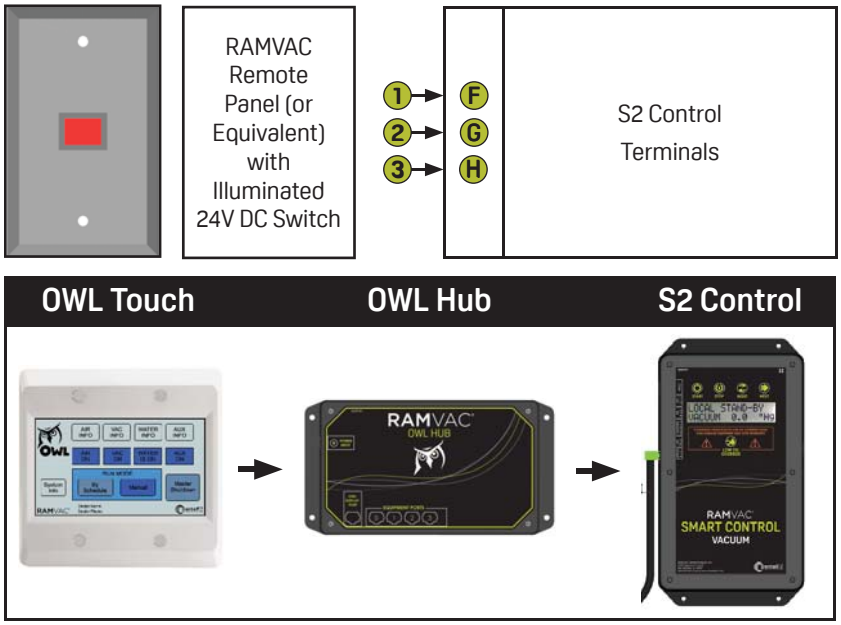
Electrical

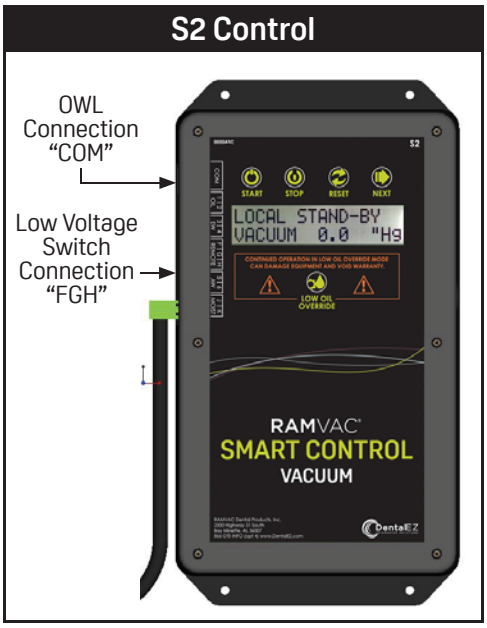
High Voltage

- 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.

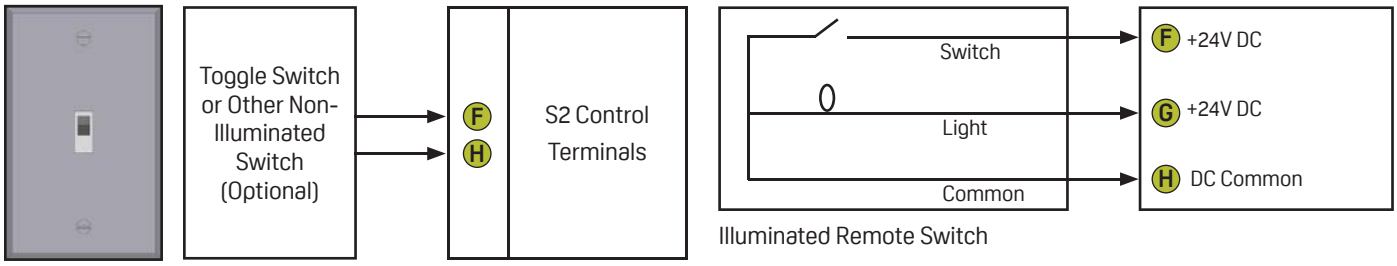
Low-Voltage Remote Switching (Recommended)

- Maximum wire length for low-voltage, 18-gauge wire is 500 feet.
- OWL to C2 (Smart Control) connection must be made with CAT 6 shielded cable using RJ45 connectors (up to 300 feet).





Low-Voltage Remote Switching (Alternative)



Illuminated Remote Switch

Placement

- Ventilation required for room to remain between 32°F to 104°F (0°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	QT 2 (115V)	QT 2 (230V)
Maximum Number of Users	4	4
Phase	1	1
Horsepower (kW)	1.0 (0.7)	1.0 (0.7)
Voltage Rating (Minimum/Maximum)	115 104/127	230 208/253
Frequency (Hz)	60	60
Breaker Rating Size (Recommended Amps)	20	15
Full Load Amps	9.0	4.5
Fusetron Size (Recommended)	FRN-25	FRN-8
THHN Wire Size (AWG)	12	12
BTU/HR (Heat Released to Room)	1,082	1,082
Sound Levels (dBA)	71	71
Operating Temperature (Min/Max)	32°F/104°F	
Operating Relative Humidity Range	0-95%, No Condensing Moisture	
Shipping/Transport Temperature (Min/Max)	-20°F/165°F	
Operating Atmospheric Pressure Range	63-105 kPa	

Product Dimensions*	Bulldog QT	15-Gallon Otter Tank	Bulldog & 15-Gallon Otter Tank Stacked
Nominal Width	21" (533 mm)	25" (635 mm)	25" (635 mm)
Nominal Depth	17" (432 mm)	19" (483 mm)	19" (483 mm)
Nominal Height	28" (711 mm)	24" (610 mm)	44" (1,118 mm)
Nominal Height with S-Type Exhaust Filter	48" (1,219 mm)	N/A	67" (1,702 mm)
Drain Valve Centerline to Floor	N/A	8" (203 mm)	8" (203 mm)

*Add 6" (155 mm) to each dimension for working space.

ETL CLASSIFIED
Intertek
4007136

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

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