Ramvac
DRY VACUUM

PREINSTALLATION GUIDE

MODEL: RV4-12



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

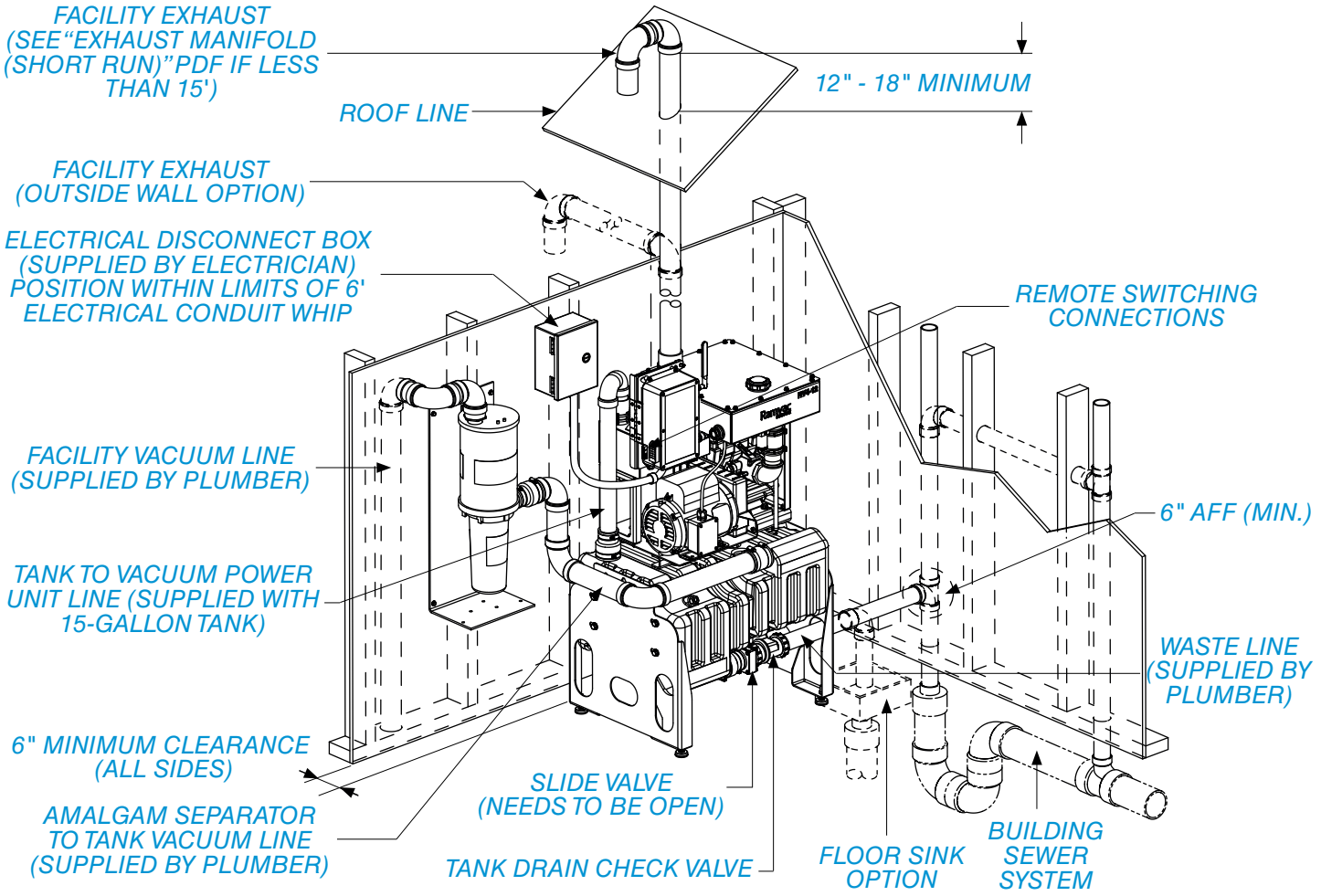
NOTICE

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

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.**

DENTALEZ

EQUIPMENT ROOM LAYOUT (VACUUM WITH 15-GALLON TANK STACKED)



PLUMBING

FACILITY EXHAUST LINES

- 2" schedule 40 PVC, schedule 80 CPVC or metal (not tar coated) with DWV fittings or equivalent.
- Slope: All horizontal lines toward the vacuum unit, a standard 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) schedule 40 PVC with DWV fittings or equivalent.
- Five to 15 rooms: 2" (or larger) schedule 40 PVC with DWV fittings or equivalent.
- Minimum slope 1/4" per 10'.
- 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) schedule 40 PVC with DWV fittings or equivalent.
- Use new, clean pipe to connect tank to vacuum power unit. DO NOT reuse old or existing pipe.

TANK DRAIN LINE

Waste pipe, slide valve and drain check valve:

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

PREINSTALLATION GUIDE

PLACEMENT

- Equipment will release 1,082 BTU per hour into room. 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.

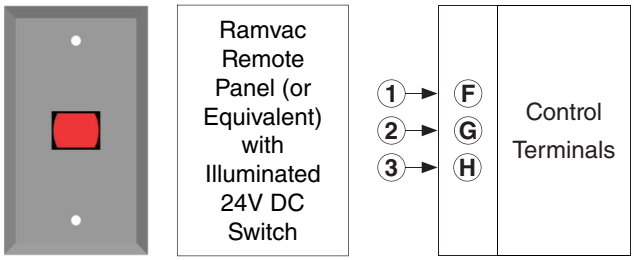
ELECTRICAL

HIGH VOLTAGE

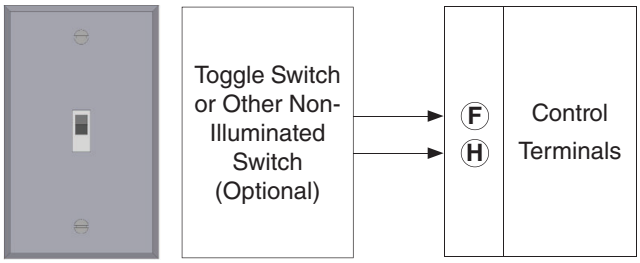
- Install a dedicated electrical circuit of sufficient capacity (see *SPECIFICATIONS & SITE REQUIREMENTS* table).
- Any means provided to isolate this device from the supply mains shall isolate all poles simultaneously. The disconnection means and overcurrent protection are to be provided by the installer.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

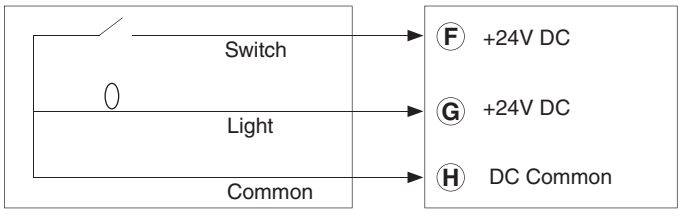
LOW-VOLTAGE REMOTE SWITCHING (RECOMMENDED)

- Maximum wire length for low-voltage, 18-gauge wire is 500 feet.



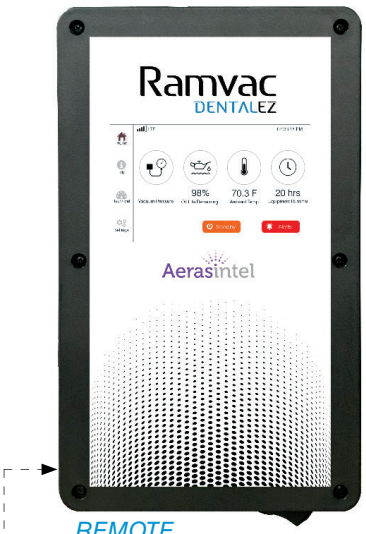
LOW-VOLTAGE REMOTE SWITCHING (ALTERNATIVE)





Illuminated Remote Switch

CONTROL PANEL



REMOTE SWITCH FGH CONNECTOR

SPECIFICATIONS & SITE REQUIREMENTS

	RV4-12 (115V)	*RV4-12 (230V)*
Max Users	4	4
Phase	1	1
Horsepower *(kW)*	1.0 (0.7)	1.0 (0.7)
Voltage Rating *(Min/Max)*	115 (104/127)	230 (208/253)
Frequency *(Hz)*	60	60
Breaker Rating Size *(Amps)*	20	15
Full Load Amps	9.0	4.5
Fusetron Size *(Recommended)*	FRN 25	FRN 8
THHN Wire Size (AWG)	12	12
HR (Heat Released to Room) *(BTU)*	1,082	1,082
Sound Levels *(dBA)*	71	71
Weight *(lbs)*	200	200
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

	RV4-12	*15-GALLON TANK*	*RV4-12 & 15-GALLON TANK STACKED*
Nominal Width	25" (635 mm)	29" (737 mm)	29" (737 mm)
Nominal Depth	17" (432 mm)	19" (483 mm)	19" (483 mm)
Nominal Height	28" (711 mm)	24" (610 mm)	48" (1,219 mm)
Drain Valve Centerline to Floor	N/A	8" (203 mm)	8" (203 mm)

ETL CLASSIFIED
Intertek
4007136

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

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Ramvac DENTALEZ

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