





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

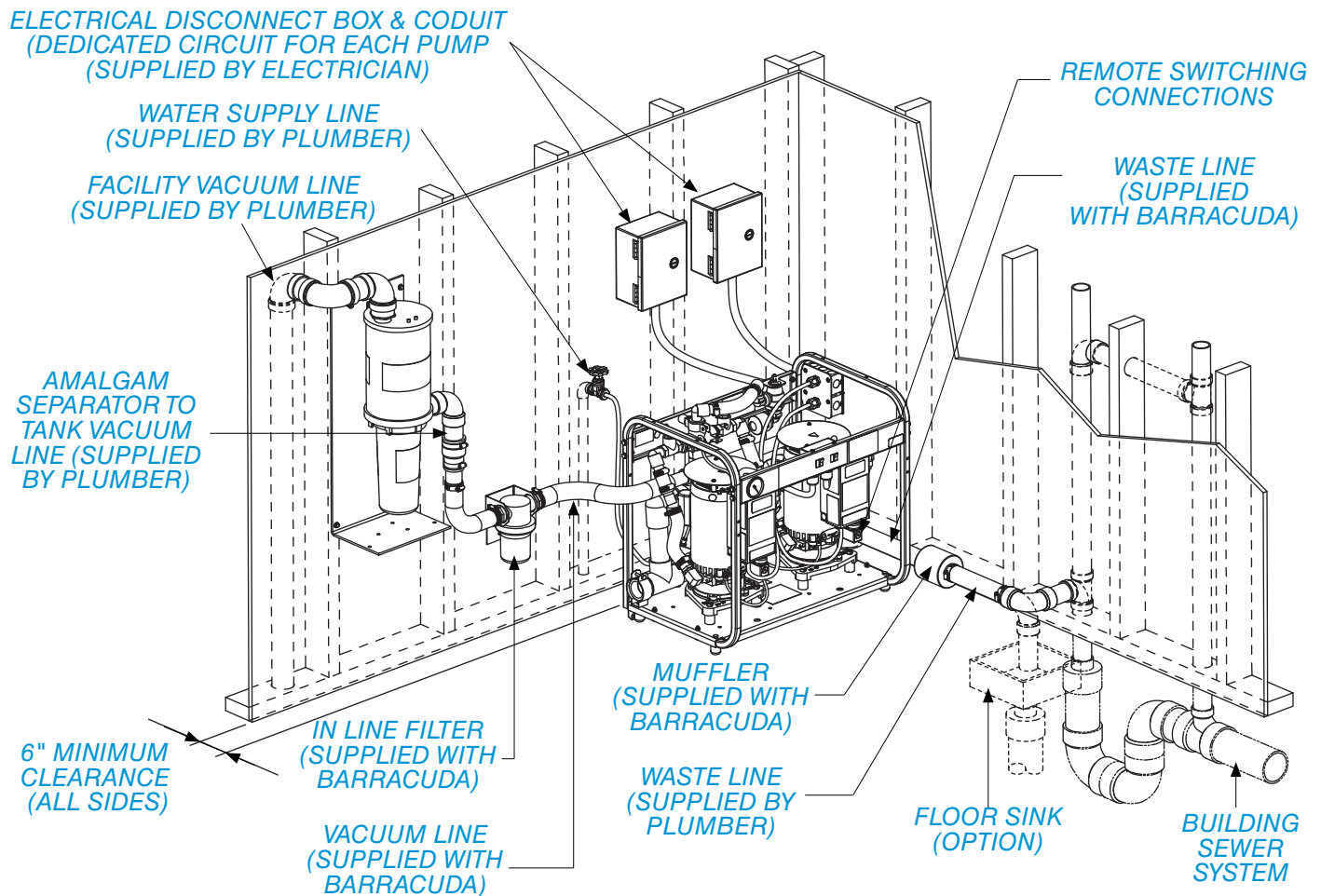
Check <input checked="" type="checkbox"/> Vacuum Model Being Installed:	<input type="checkbox"/> MC201 FS/FSW	<input type="checkbox"/> MC202 FS/FSW
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NOTICE

 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.**

EQUIPMENT ROOM LAYOUT



PLUMBING

WATER SUPPLY LINE

- The plumber supplies and installs a 1/2" gate valve on the water supply line.
- Connect to vacuum pump using the supplies 3/8" nylon tubing and fittings.

FACILITY VACUUM LINES FROM OPERATORIES

- 1½" (or larger) schedule 40 PVC with DWV fittings or equivalent. Type "M" copper should be used if local code does not allow the use of PVC.
- Minimum slope 1" per 20'.
- Make all connections using long radius sweep fittings. Directional flow connections should be used.
- 45° elbows for turns (or to avoid obstructions) are recommended.

AMALGAM SEPARATOR TO PUMP VACUUM LINE

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

WASTE LINE

Waste pipe, slide valve and drain check valve:

- 1½" schedule 40 PVC with DWV fittings.
- Waste line should follow the most direct path to the sewer connection with a minimum of bends and elevations.
- No part of the waste line should be more than 3' above the level of the waste connection on the vacuum pump.
- Drain into building sewer system.

PREINSTALLATION GUIDE

Ramvac

PLACEMENT

- Equipment will release 900 BTU per hour into room. Ventilation required for room to remain between 50°F to 104°F (10°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.

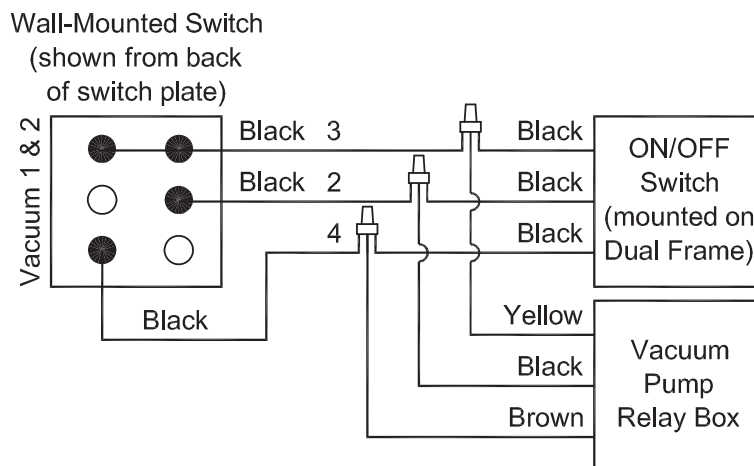
ELECTRICAL

HIGH VOLTAGE

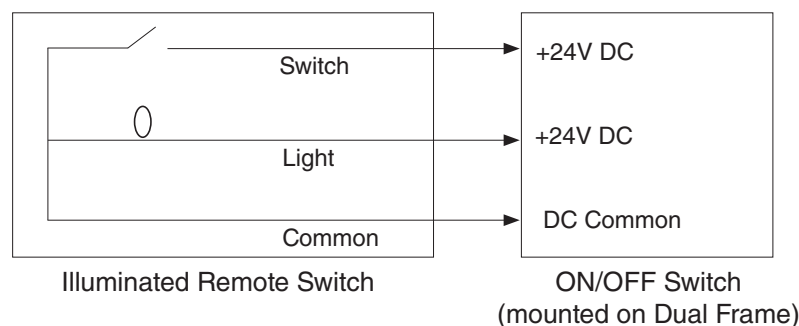
- Install a dedicated electrical circuit of sufficient capacity (see [SPECIFICATIONS & SITE REQUIREMENTS](#) table).
- Any means provided to isolate this device from the supply mains shall isolate all poles simultaneously. The disconnection means and overcurrent protection are to be provided by the installer.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

LOW-VOLTAGE ELECTRICAL SWITCHING (RECOMMENDED)

- 18-3 low-voltage wiring for lighted switch.
- Maximum wire length for low-voltage, 18-gauge wire is 500 feet.



LOW-VOLTAGE REMOTE SWITCHING (ALTERNATIVE)




SPECIFICATIONS & SITE REQUIREMENTS

	MC201 FS/FSW	MC202 FS/FSW	
Max Users	4	6	
Phase	1	1	
Horsepower (Per Motor)	1	2	
Running Speed (RPM)	3,450	3,450	
Voltage Rating (Min/Max)	208/230	208/230	
Frequency (Hz)	60	60	
Breaker Rating Size (Amps)	15	20	
Time Delay Fuse (Amps)	12	20	
Standard Fuse (Amps)	25	40	
Full Load Amps (Each Motor)	7.5	15	
Switching (Low Voltage VDC)	24	24	
Maximum Sealed Vacuum Level (Hg)	Approx. 20-25" Adjustable	Approx. 20-25" Adjustable	
1-Pump Operation	Usable CFM	15	30
	Use factor (No. of high-volume hoses open simultaneously)	2	3
2-Pump Operation	Usable CFM	30	60
	Use factor (No. of high-volume hoses open simultaneously)	4	6
Gauge Accuracy	ASME/ANSI B40.1 Grade B (+/-3/2/3%)	ASME/ANSI B40.1 Grade B (+/-3/2/3%)	
HR (Heat Released to Room) (BTU)	900	900	
Sound Levels (dBA)	70-75	70-75	
Weight (lbs)	175 (79.4 kg)	215 (97.5 kg)	
Water Requirements Per Pump (Gall/Min)	1/2	1	
Ambient Temperature	104°F (32°C)	104°F (32°C)	
Operating Temperature (Min/Max)	50°F to 104°F (10°C to 40°C)	50°F to 104°F (10°C to 40°C)	
Storage Temperature (Min/Max)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	
Operating Relative Humidity Range	10-100%	10-100%	
Transport/Storage Relative Humidity Range	0-95%, No Condensing Moisture	0-95%, No Condensing Moisture	
Operating Altitude	63-105 kPa	63-105 kPa	
Transport/Storage Altitude	50-105 kPa	50-105 kPa	

PRODUCT DIMENSIONS

	MC201 FS/FSW	MC201 FS/FSW (WITH RECIRCULATOR)	MC202 FS/FSW	MC20 FS/FSW (WITH RECIRCULATOR)
Nominal Width	24" (610 mm)	26" (660 mm)	24" (610 mm)	26" (660 mm)
Nominal Depth	17" (432 mm)	20" (508 mm)	17" (432 mm)	20" (508 mm)
Nominal Height	24" (610 mm)	24" (610 mm)	24" (610 mm)	24" (610 mm)

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



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