BISON® - 30 GALLON OTTER TANK™ STACKED SITE INFORMATION

FACILITY EXHAUST LINES

- 2" schedule 80 PVC or CPVC, or metal (not tar coated) with DWV fittings or equivalent. (Option: PVC schedule 40 or equivalent after first 10 feet of run).
- Slope: All horizontal lines toward the vacuum unit, a standard plumbing slope.
- Minimum exhaust length=15 feet from Ramvac pump to outside end. See "Exhaust Manifold (Short Run)" PDF if less than 15 feet.
- 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

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

TANK TO VACUUM POWER UNIT LINE AND AMALGAM SEPARATOR TO TANK VACUUM LINE

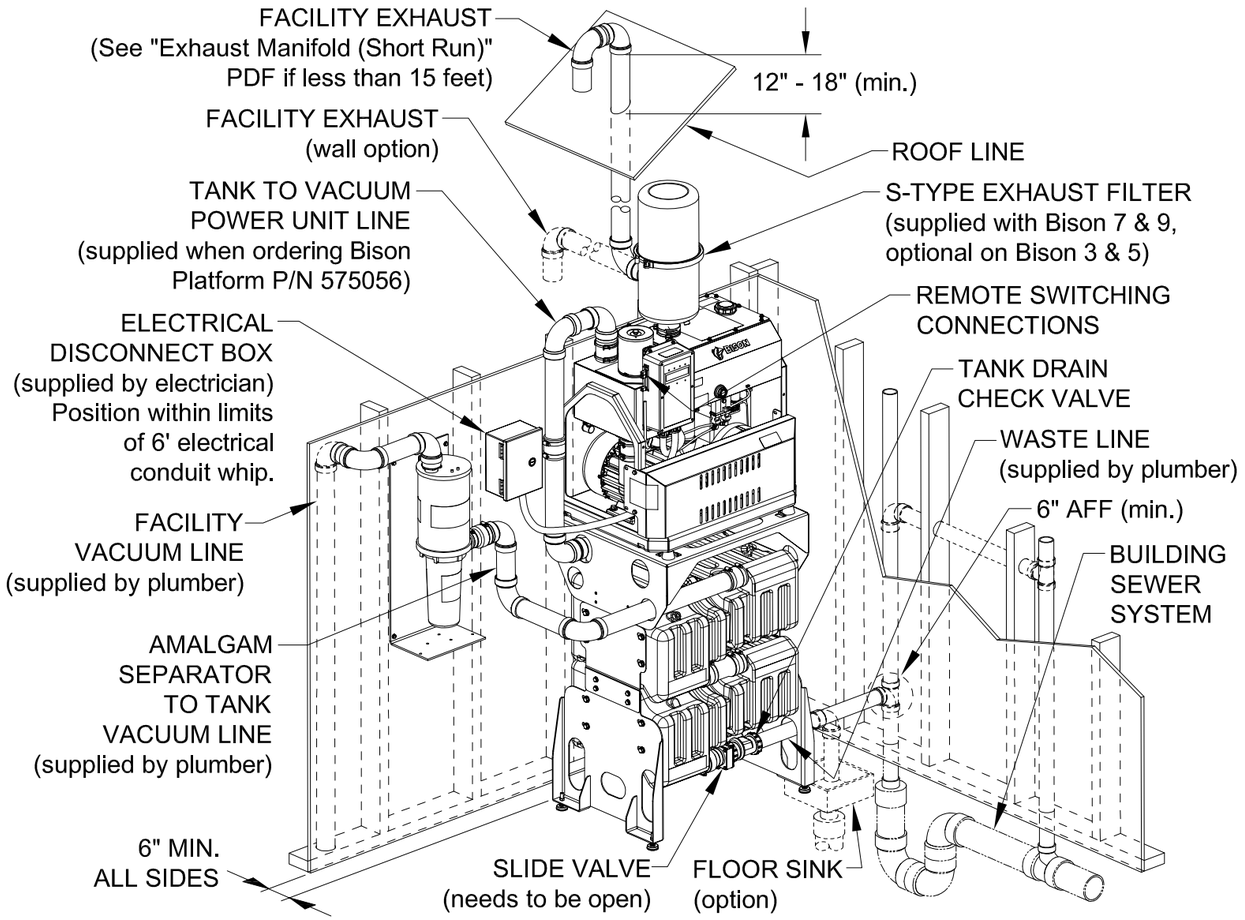
- 2" PVC schedule 40 with DWV fittings or equivalent.
- Use new, clean pipe to connect tank to vacuum power unit and amalgam separator to tank vacuum line. Do NOT reuse old or existing pipe.

TANK DRAIN LINE

Waste pipe, slide valve and drain check valve:

- 1-1/2" PVC schedule 40 with DWV fittings.
- Minimum slope 1/4" per 10 ft.
- Use only Ramvac supplied 1-1/2" drain check valve.
- Drain into building sewer system.

THIS SHEET IS NOT INTENDED TO REPLACE THE INFORMATION FOUND IN THE INSTALLATION MANUALS. REFERENCE MANUALS FOR FULL INSTALLATION, SAFETY AND PRECAUTIONS.



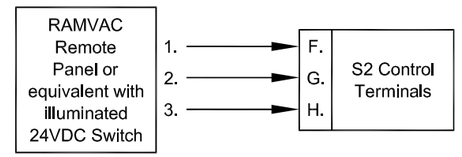
ELECTRICAL SPECIFICATIONS								
MODEL	MOTOR				THHN Wire Size		PROTECTION	
	Hp (kW)	Phase	Voltage	Max Amps	50 ft.	100 ft.	Breaker	Fusetron
Bison 3, 5, 7 60 Hz	3.0 (2.2)	1	230v	16.0 A	12 ga.	10 ga.	20 amp	FRN 25
		3	230v	8.4 A	12 ga.	12 ga.	15 amp	FRN 12
			460v	4.2 A	12 ga.	12 ga.	15 amp	FRN 5
Bison 9 60 Hz	5.0 (3.7)	3	230v	13.2 A	12 ga.	12 ga.	20 amp	FRN 25
			460v	6.6 A	12 ga.	12 ga.	15 amp	FRN 10

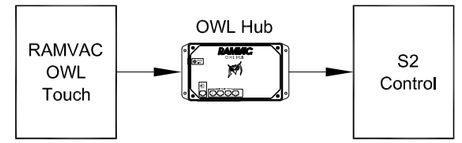
PRODUCT DIMENSIONS	30 GALLON OTTER TANK	BISON 3/ BISON 5	BISON-30 GALLON OTTER TANK STACKED	BISON 7/ BISON 9	50 GALLON CYLINDRICAL TANK
Nominal Width	29" (737 mm)	26" (660 mm)	32" (813 mm)	26" (660 mm)	22" (559 mm)
Nominal Depth	21" (533 mm)	19" (483 mm)	21" (533 mm)	22" (559 mm)	22" (559 mm)
Nominal Height	36" (914 mm)	30" (762 mm)*	70" (1778 mm)*	30" (762 mm)*	62" (1575 mm)
Drain Valve Centerline to Floor	8" (203 mm)	N/A	8" (203 mm)	N/A	5" (127 mm)
dBA Levels	N/A	74/75	74/75/77/79	77/79	N/A
* For S-Type Exhaust Filters add 26 inches to height of power units.					

REMOTE SWITCHING

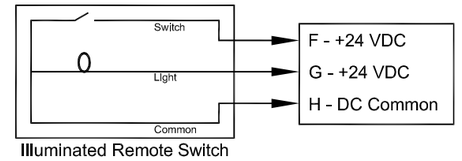
- Maximum wire length for low voltage 18 gauge wire is 500 feet.
- OWL to S2 connection must be made with Cat 6 shielded cable using RJ45 connectors (up to 300 feet).

Recommended Switching





Alternative Switching



Illuminated Remote Switch

NOTES:

- It is recommended that this equipment be installed by licensed electrical and plumbing contractors only and must comply with local and national electrical and plumbing codes.
- Bison 3, 5 & 7 will release 2673 BTU per hour into room. Bison 9 will release 4454 BTU per hour into room. Ventilation required for room to remain between 32° to 104°F (0° to 40°C). Forced air & HVAC must be used, in addition, if ambient temperatures do no fall into this range.

RAMVAC® Utility

DentalEZ INTEGRATED SOLUTIONS

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