

**Air Pump :HIBLOW HP80 (or equal)
w/ Alarm to signal pump failure**

Clean oil-less air, extremely quiet operation, long life, low power consumption, low vibration, low starting current, high quality aerator pump.

4.2 cfm Max Air Flow

80 Liters of Air per Minute

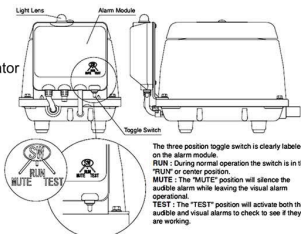
3.6 psi Max Continuous Operating Pressure

120VAC, 60 Hz, 1.6A, 71 Watts

36 dBA @ 1 meter

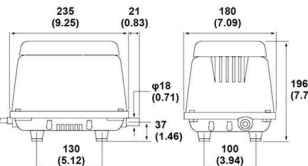
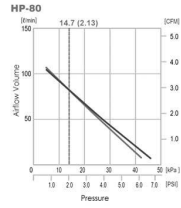
UL Rated

Includes Rubber 90 and Alarm Connection Fittings



In Case of an Alarm :
The alarm module audible alarm (buzzer) and visual alarm (light) are intended to signal a system malfunction. Connect your service provider whenever you hear or see the alarm when the switch is in the "RUN" or center position. The "MUTE" position can be used to silence the audible alarm until the service provider arrives.

HP-80		
Rated Voltage :	V	AC100 / 110-120 / 220-240
Power Supply Frequency :	Hz	50 : 60
Rated Loading Pressure :	kPa	14.7
Airflow Volume :	l/min	80
Power Consumption :	W	71
Noise Level :	dBA	36
Weight :	kg	7.0

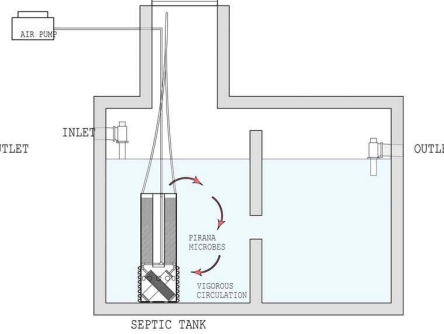
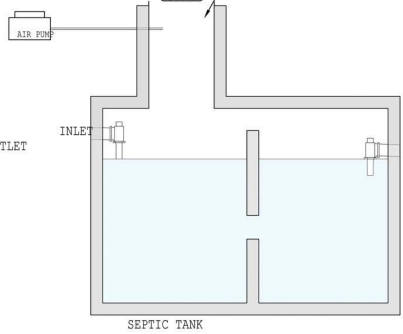
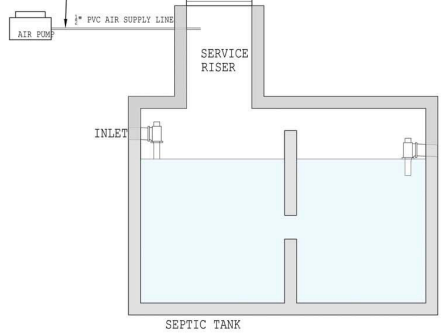


**Aeration Pipe: 1/2" Nominal Diameter Schedule 40 PVC
(Pipe from Pump to 'Pirana' Air Lift Column)**

Manf. in accordance to the requirements of ASTM D1785

Nominal Size (inches)	Avg. O.D.	Minimum Wall Thickness SCH 40	Pressure Rating @ 73° F (PSI) SCH 40	Pressure Rating @ 140° F (PSI) SCH 40	Minimum Socket Depth
1/2	.840	.109	600	132	1.000

AIR SUPPLY LINE INSTALLED BELOW GRADE IN SHALLOW HAND DUG TRENCH



Simple Installation

Linear air pump is UL approved for exterior location.

Install air pump in a garage, shed, basement or exterior basin.

Provide air pump with GFCI rated outlet.

Install 1/2" schedule 40 PVC pipe from air pump to Pirana unit.

All Pirana models use self-cleaning micro-fine bubble diffusers.

Cusped plastic media creates unique oxygen environment, allowing Pirana Blend Bacteria (PBB) to colonize and thrive within the Pirana unit.

PBB digest and recycle all organic solids in, and entering, a septic tank.

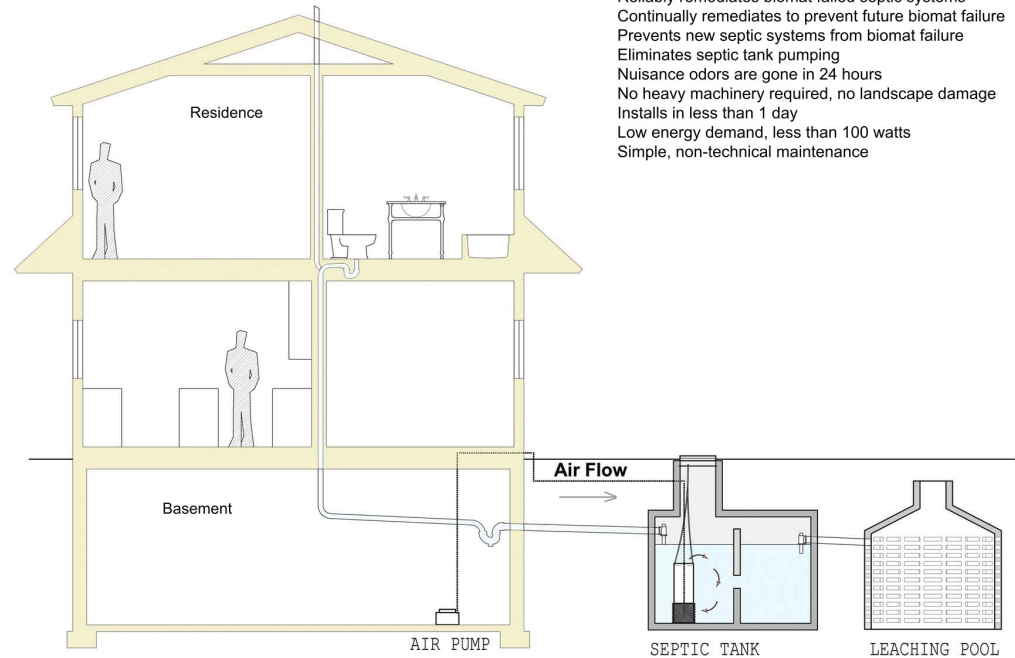
Pirana eliminates septic tank pumping.

Effluent, rich in Pirana Blend Bacteria, enter Subsoil Absorption System,

where they digest and recycle retained organic matter and biomat.

Digesting biomat returns Soil Absorption System to proper function.

Denitrifies aerobically and anaerobically in septic tank and soil.



THE PIRANA - Aerobic Bacteria Generation System

Reliably remediates biomat failed septic systems

Continually remediates to prevent future biomat failure

Prevents new septic systems from biomat failure

Eliminates septic tank pumping

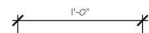
Nuisance odors are gone in 24 hours

No heavy machinery required, no landscape damage

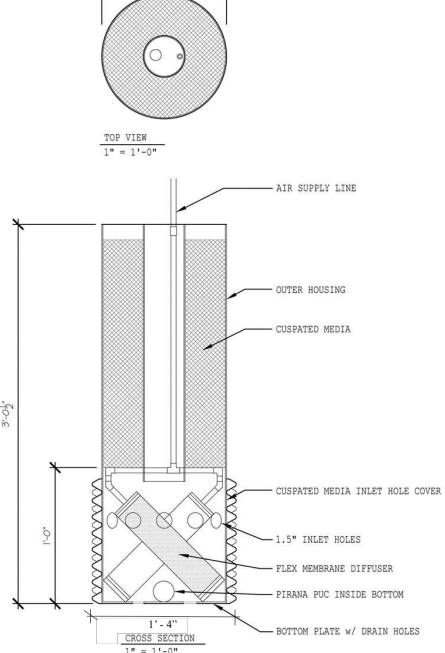
Installs in less than 1 day

Low energy demand, less than 100 watts

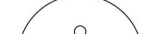
Simple, non-technical maintenance



TOP VIEW
1" = 1'-0"



CROSS SECTION
1" = 1'-0"



BOTTOM VIEW
1" = 1'-0"



THE PIRANA

Alternative Wastewater Treatment System for both

New Systems

&

Restoration of Existing Systems

Date: _____

Prepared By: John Barylski PE

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Prepared For: Pirana System

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