

Professional Engineering Services for Amboy Compost Wastewater Conveyance  
System Improvements  
6296 Airport Road, Syracuse NY 13209  
Onondaga County Resource Recovery Agency

**Addendum to Contract Documents**  
September 2, 2022

This Addendum includes additional information to the Contract Documents dated August 10, 2022.

Contractors submitting proposals for the above-named project shall take note of the information included in this addendum regarding any changes, additions, deletions, clarifications, etc., in the Contract Documents, which shall become a part of and have precedence over anything contrarily shown or described in the Contract Documents, and as such shall be taken into consideration and be included in the Contractor's Bid Proposal.

This Addendum must be acknowledged in the Contractor's Bid Proposal.

Item No. 1: Question: "I see that contractors are encouraged, but not required, to conduct a site visit? Please confirm. If required, I am requesting an extension of this deadline to be able to conduct a site visit prior to submitting a proposal."

Response:

Contractors are encouraged, but not required to conduct a site visit. Site visits can be scheduled at any reasonable time. Please contact Mr. Connery to schedule via email: [jconnery@ocrra.org](mailto:jconnery@ocrra.org)

Item No. 2: Question: "Has there been any maintenance updates to the facility, grinder pump or other replacements?"

Response:

The grinder pump was replaced in early 2021. In late July of this year, the connection between OCRRA's force main and the force main belonging to Onondaga County Department of Water and Environmental Protection (WEP) was excavated and the line was jetted to clear a plug. Standard routine maintenance such as cleaning sediments from trenches is conducted on the facility regularly.

Item No. 3: Request: "Please provide a cut sheet of the current grinder pumps."

See attached documents regarding grinder pumps at the Amboy Compost Facility.

Submersible Grinder Pump Type ABS Piranha

Piranha S | 1-1/4", 2 Pole, 1-Phase, 60 Hz, S1

**PIRANHA GRINDER**



The picture above may differ from the actual product. For illustrative purposes only.

Submersible Motor Specifications, S1 Frame		
Motor Design	NEMA design B, squirrel cage induction	
Motor Type	Fully enclosed submersible, IP68 protection rating	
Motor Efficiency Standard and Rating	N/A	
Motor Efficiency Test Protocol	N/A	
Insulation Material	Class F, 155°C (311°F), copper windings	
Motor Filling Medium	Air	
Temperature Rise	Class B	
Maximum Fluid Temperature	40°C (104°F) continuous	
Motor Protection	Thermal	STD Normally closed bimetallic switch in each phase, connected in series, 130°C (266°F) +/- 5°C (41°F) opening temperature
	Leakage	STD Moisture detection probe in seal sensing chamber (for use with appropriate relay)
Sensing Chamber Filling Medium	Environmentally safe, non-toxic oil	
Bearing Type	Upper	Single row, deep groove ball bearing, permanently lubricated
	Lower	Single row, deep groove ball bearing, permanently lubricated
Motor Starter Types	Use with Direct-On-Line starting (DOL) recommended <sup>1</sup>	
Maximum Starts per Hour	15, evenly spaced	
Maximum Submergence	20 meters (65 feet)	
Available Voltages	208, 230 (consult factory for other voltages)	
Voltage Tolerance from Rated	+/-10%	
Agency Approvals	STD	CSA, UL
	<del>OPT</del>	STD plus: Factory Mutual
Explosion Proof Rating	<del>OPT</del>	NEC 500 Class 1, Division 1, Group C & D, Class T3C max surface temp

<sup>1</sup> Requires external start kit mounted in the control panel. See document DS-Z01-009 for single phase start kits.

Motor Ratings, S1 Frame														
Motor Model	Input Power (P1)	Rated Power Output (P2)	Nominal RPM	Rated Voltage	Full Load Amps	Locked Rotor Amps	NEMA Code Letter	NEMA Service Factor	Motor Efficiency at % Load			Power Factor at % Load		
									100	75	50	100	75	50
S 20/2W <sup>1</sup>	2.5 kW	1.8 kW 2.4 HP	3345	208 230	12.7 11.5	32 29	A	1.0	73.4	74.7	71.6	.927	.953	.941



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Piranha S | 1-1/4", 2 Pole, 1-Phase, 60 Hz, S1

**Cable Data, S1 Frame**

Power Cable	Motor	Motor Voltage	Cable Qty	Cable Type	Cable Nominal Outside Diameter +/- .5mm (.02")	
					Power	Ground
S 20/2W		208	1	SOOW 14/7	17.6mm (0.69")	Integrated w/ Power
		230	1	SOOW 14/7	17.6mm (0.69")	Integrated w/ Power
Control Cable	Motor Monitoring Type <sup>3</sup>	Cable Qty	Cable Type	Cable Nominal Outside Diameter +/- .5mm (.02")		
				Std monitoring	Integrated w/ Power	
Cable Length		Standard: 10m (32 feet)      Optional: 20m (65 feet), 30m (98 feet); Consult Factory for longer lengths				

<sup>3</sup> See motor protection on page 1.

**Pump Data**

Discharge Size	DN32 oblong flanged, 1-1/4" female NPT w/ the use of discharge adapter kit						
Suction Size	N/A						
Volute Pressure Rating	10 bar (145 psi)						
Impeller Type	Semi-Open, 4-vane, w/ Cutter Assembly & Seal Protection System						
Impeller	Code	143					
	Diameter, mm (in.)	143 (5.6)					
Solids Passage Size, mm (in.)	N/A (N/A)						
Min. Recommended Flow, GPM <sup>6</sup>	8						

<sup>6</sup> Recommend minimum continuous flow. Discharge pipe size can affect minimum flow rate required for solids transport. Consult factory for applications below this flow rate.

**Materials of Construction**

	Standard	Optional
Power/Control Cable Jacket	Chlorinated Polyethylene (CPE)	
Lifting Handle	Cast Iron EN-GJL-250 (ASTM A-48, Class 35B)	
Cable Connection Chamber	Cast Iron EN-GJL-250 (ASTM A-48, Class 35B)	
Motor Housing	Cast Iron EN-GJL-250 (ASTM A-48, Class 35B)	
Intermediate Housing	Cast Iron EN-GJL-250 (ASTM A-48, Class 35B)	
Seal Plate	Cast Iron EN-GJL-250 (ASTM A-48, Class 35B)	
Pump and Motor Shaft	Stainless Steel 1.4021 (AISI 420)	
Impeller	Cast Iron EN-GJL-250 (ASTM A-48, Class 35B)	
Wear Parts	Rotating Cutter	Stainless Steel 1.4528 (AISI 440B+Co), 58-62 HRC
	Stationary Cutter	Stainless Steel 1.4528 (AISI 440B+Co), 58-62 HRC
	Bottom/Wear Plate	Cast Iron EN-GJL-250 (ASTM A-48, Class 35B)
Volute	Cast Iron EN-GJL-250 (ASTM A-48, Class 35B)	
External Hardware	Stainless Steel 1.4401 (AISI 316)	
O-Rings and Cable Glands	Nitrile (Buna-N)	
Mechanical Seals	Lower	Silicon Carbide / Silicon Carbide, Nitrile, 316 SS
	Upper (Lip Seal)	Nitrile (Buna-N) Encapsulated Steel
Coating/Protection	Two-part epoxy, blue, 120µm (4.7 mil) DFT	Two-part epoxy, blue, 200µm (7.9 mil) Two-part epoxy, blue, 400µm (15.7 mil)

**General Data**

	<b>S 20/2W</b>			
Overall Height	347mm (13.7")			
Pump Weight	32 kg (71 lb)			

DS-P01-030 REV: 0 DATE: 08/15 Specifications Subject to Change Without Notice

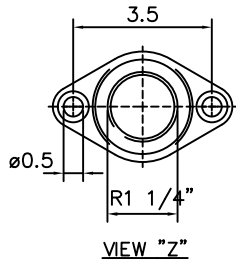


# SULZER

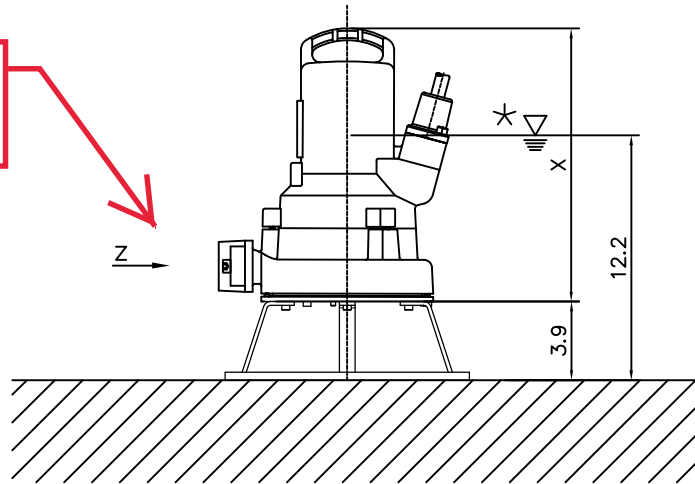
Massblatt S10/4 **S20/2** S30/2 Transportable  
Dimension sheet  
Plan d'encombrement

No: AN-M.12.46-05  
Drawn: 11.08.99 / C.Quirke  
Issue Date: 30/03/2015  
Änderungen vorbehalten  
Technical changes reserved  
Con riserva di modifiche  
Con reserva de modificaciones  
Sous réserve de modification

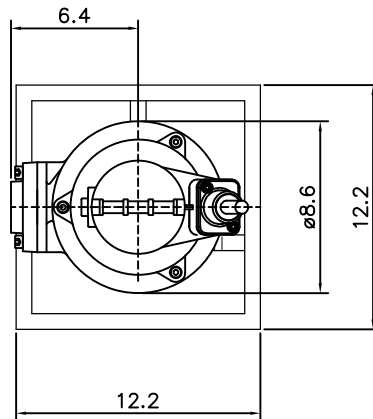
**U.S.**



1.25" npt Adapter  
included, but not  
shown



\* LOWEST SWITCH OFF POINT FOR AUTOMATIC OPERATION



Type.	Dim "X"
Pir S10/4	13.6
<b>Pir S20/2</b>	<b>13.6</b>
Pir S30/2	14.2