

Figure 1 - The layout of main equipment of BGU-25.

1 - Capacity for substrate preparation; 2 - Installation for ultrasonic treatment of the substrate; 3 - Anaerobic reactor of BGU; 5 - effluent separator; 6 - Installation for drying effluent; 7 - Gas generator room; 8 - Boiler room; 9 - Gasholder.

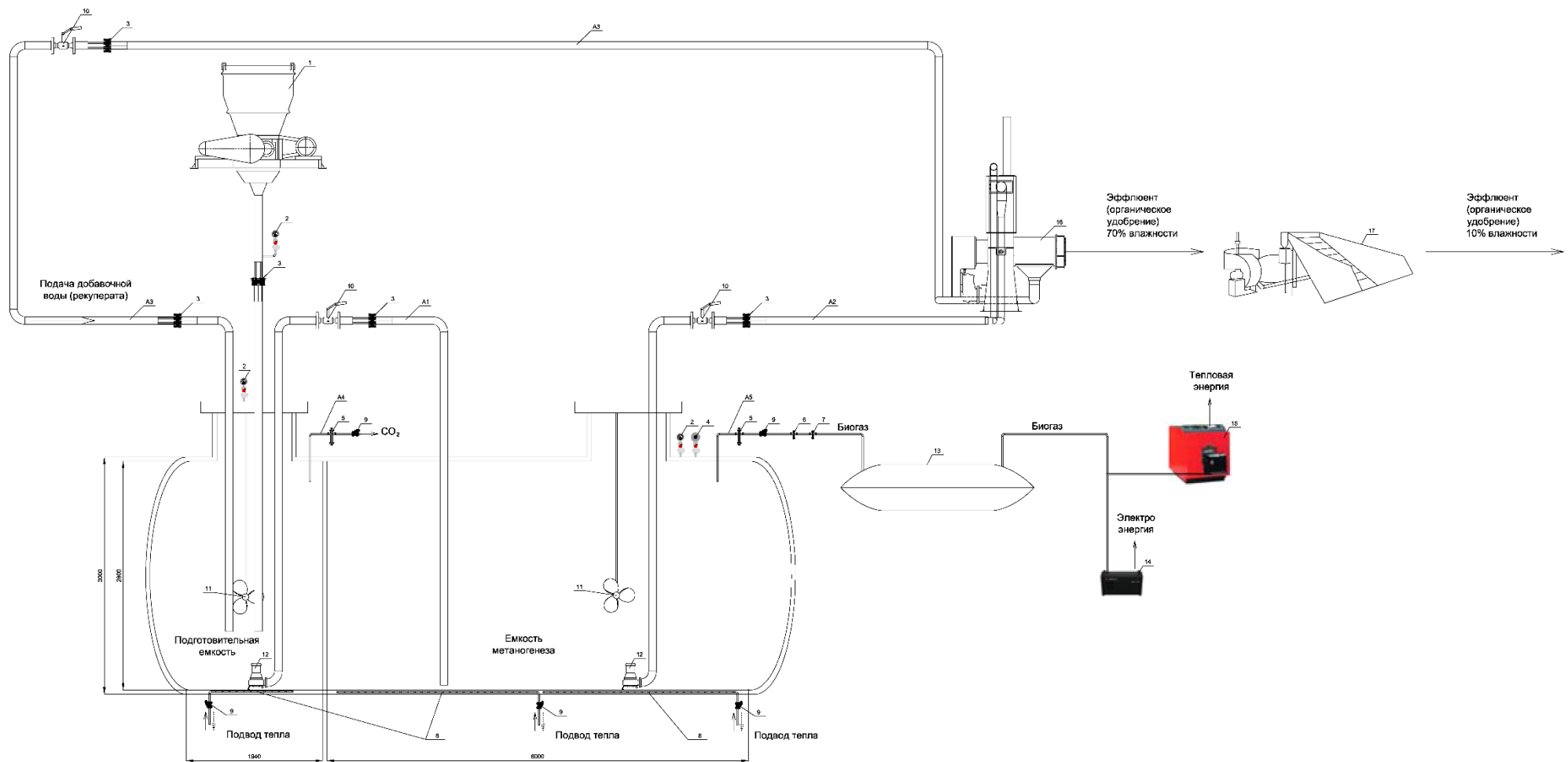


Figure 2 - Schematic diagram of BGU-25.

1 - device for grinding and ultrasonic preparation of raw materials; 2 - temperature sensor and pH meter; 3 - flowmeter; 4 - pressure sensor; 5 - water seal; 6 - CO₂ filter; 7 - biogas dehydration unit; 8 - heating system; 9, 10 - stop valves; 11 - agitators; 12 - pumps; 13 - gasholder; 14 - gas generator; 15 - gas hot water boiler; 16 - separator; 17 - installation for drying effluent; A1 - pipeline supplying the substrate to the methane tank; A2 - the pipeline for feeding the effluent to the separator; A3 - recuperator pipe; A4 - gas pipeline CO₂; A5 - gas pipeline of biogas.

Specification of the main equipment

Position	Name and technical characteristics	Number of	Type, brand, designation of the document, questionnaire.
	<u>Equipment</u>		
1	Substrate preparation capacity	1	
2	Ultrasonic substrate processing installation	1	
3,4	Anaerobic reactor	2	
5	Effluent separator	1	SEPPIG-COW/015
	Fecal submersible pump with chopper	4	PTS-4-100 (крепление PVTB 100)
	Stainless steel immersion horizontal mixer	4	TBX 1,1/4 (крепление PVTB 100)
	Gas meter		БК G6
	Gas separator		СЦВ-8Г-159/6-1
	Elasticated gasholder		ПЭР-50Г
	Gas Pump		N 0150 st.9E Ex
	Gas Generator		
	Gas boiler and gas burner		
	Electric boiler		
	Equipment and materials of automation system		
	Equipment and materials of the gas supply system		
	Equipment and materials of the heat supply system of BGU		
	Equipment and materials of the water supply system		
	Equipment and materials of the substrate and effluent transfer system		