BRIEF INTROUDCTION

ALONG ALBS series biogas scrubber system is for the pre-treatment of raw biogas from anaerobic reactor, suitable for biogas flow 20 ~ 500 Nm³/hr. The raw biogas from digester always contains saturated water vapor, physical impurities and hydrogen sulfide. These substances should be removedbefore the utilization of biogas, to avoid damage to generator, burner of boiler and Flare or other equipments.

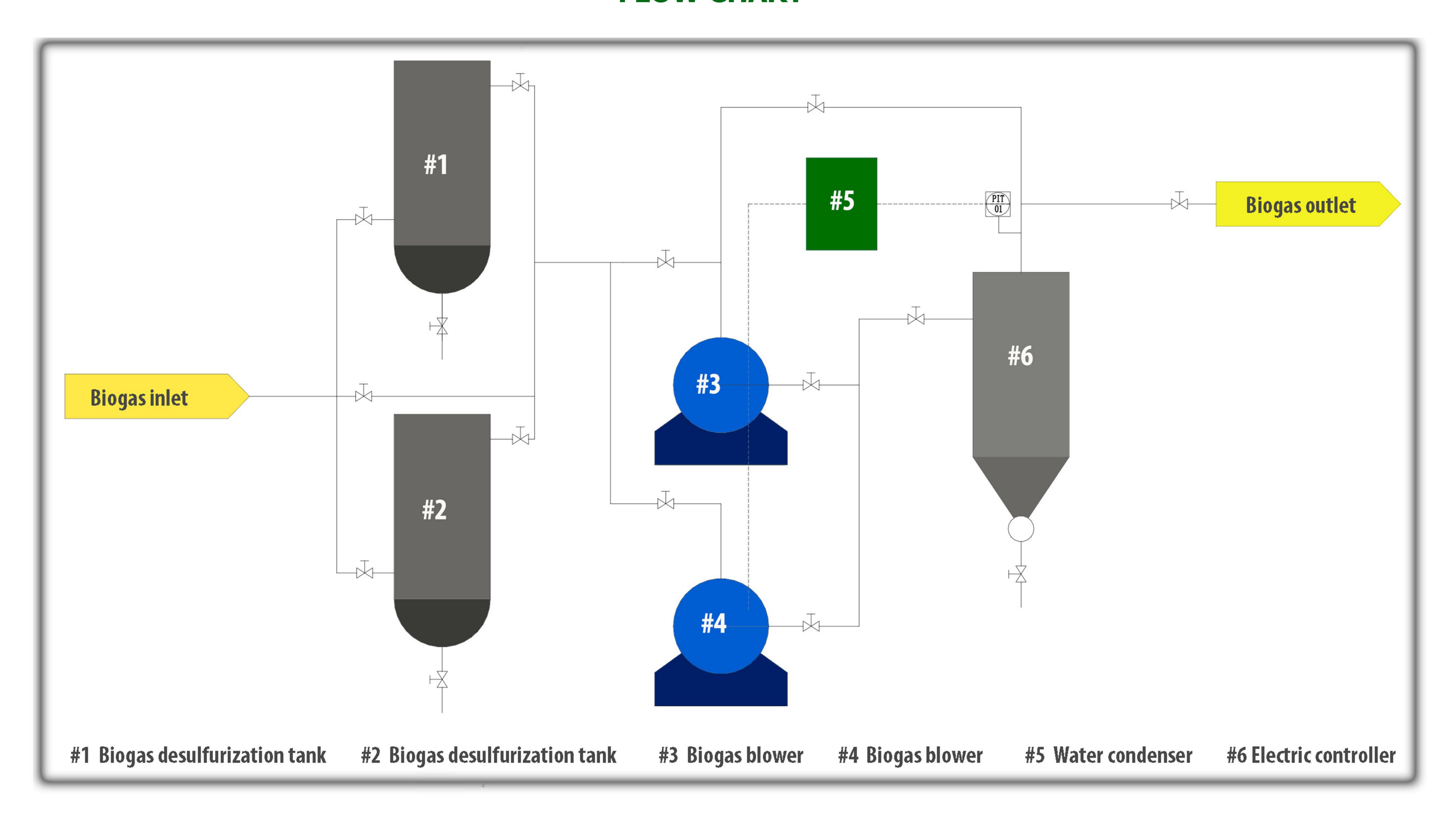




The system is skid mounted in combination of multiple functional units, or individually installed at project site. It has the following configurations:

- * Biogas desulfurization tanks (The Quantity and size is according to project request)
- * Biogas de-water tanks (The Quantity and size is according to project request)
- * Biogas blower (The Quantity and size is according to project request) Electrical control system: Equipped with VFD(variable frequency drive) and LCD touch screen.
- * Pipes, valves and base frame.
- * Option: Pressure gauge, Biogas analyzer and so on

FLOW CHART





THE MAIN REACTION PRINCIPLE

Fe2O3.H2O+3H2S=Fe2S3.H2O+3H2O

Fe2O3.H2O+3H2S=2FeS+S+4H2O

When the desulfurizer is alkaline, the process will through(1), when the desulfurizer is acidic, the process will through(2). If the H2S contents is higher than demanded standard in the outlet gas, please change the desulfurizer, to make sure the regular utilization of the Iron oxide, to make sure the regular function of the system.

The life and replacement circle are depended by:

- 1. The biogas flow and the H2S content.
- 2. The required H2S content after the desulfurization tank.



MODEL SELECTION TABLE

Model	Biogas flow per hour(m³/h)	The sulfur contents before treatment	The sulfur contents after treatment	Dimension (L*W*H) mm	Weight (KGs)
ALBS40	30~50 m³/h	2500~5000ppm	below 200ppm	1800*1800*2160	430
ALBS60	50~70 m³/h	2500~5000ppm	below 200ppm	2000*1800*2160	550
ALBS80	70~90 m³/h	2500~5000ppm	below 200ppm	2500*2000*2160	750
ALBS120	100~140 m³/h	2500~5000ppm	below 200ppm	2750*2100*2160	870
ALBS150	140~170 m³/h	2500~5000ppm	below 200ppm	3550*2100*2360	1100
ALBS200	180~220 m³/h	2500~5000ppm	below 200ppm	4350*2100*2360	1250
ALBS250	220~280 m³/h	2500~5000ppm	below 200ppm	5300*2100*2380	1310
ALBS300	280~350 m³/h	2500~5000ppm	below 200ppm	5300*2100*2380	1355
ALBS400	350~450 m³/h	2500~5000ppm	below 200ppm	6900*2100*2380	1810
ALBS500	450~550 m³/h	2500~5000ppm	below 200ppm	7500*2100*2360	2290
Main material: Stainless steel 304					

ADVANTAGE

ALBS series biogas desulfurization and treating integrated system, it is for removing the H2S and impurity of the biogas. The desulfurization and treating integrated system, with reasonable structure, low bed resistance, High desulfurization and treating degree Convenient technology operation, High penetrable sulfur degree, good adaptability of installation position, No second pollution Safe and easy installation, and so on.







ALBS series biogas scrubber with cast iron tanks