

Specification Sheet Biogas reactors

Types: S1, S2, S3, S4, S1-H, S2-H, S3-H, S4-H, S6-H, S8-H

Type	S1	S1-H	S2	S2-H	S3	S3-H	S4	S4-H	S6-H	S8-H	
Diameter (m)	7,77	7,77	10,87	10,87	13,98	13,98	15,53	15,53	18,64	21,75	
Panel height (m)	2,47	3,69	2,47	3,69	2,47	3,69	2,47	3,69	3,69	3,69	
Total height including roof (m)	5,71	6,93	7,00	8,22	7,47	8,69	7,47	8,69			
Nominal liquid volume (m3)	89	145	176	287	261	425	362	590	924	1260	
Panels:											
Panel material	AISI 304										
No of panels along circumference	10	10	14	14	17	17	20	20	24	28	
Top panel thickness (mm)	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	1	
Middle panel thickness (mm)	-	1,5	-	1,5	-	2	-	2	2	2,5	
Lower panel thickness (mm)	1,5	2	1,5	2	1,5	3	1,5	2,5	3	4	
Cables for reinforcement	-				1	-	6	-			
Insulation thickness standard (cm)	6										
Insulation R value standard (m2K/W)	1,8										
Insulation thickness extra (cm)	8										
Insulation R value extra (m2K/W)	2,4										
Agitator power (kW)	9				15				2x9	2x15	
Nominal gas pressure (mbar)	2										
Maximum gas pressure (mbar)	4										

Liner and roof material

Both Liner, biogas roof and pressure outer roof are made of fiber reinforced PVC material

Mixing

The reactor is mixed with a submersible stainless steel mixer that is optionally height adjustable.

Pressure safety systems

The reactor is equipped with a heated stainless steel waterlock for over and underpressure. Maximum flowrate 50m3/h. Maximum pressure 4mbar. The reactor is equipped with a magnetic overpressure and overflow safety valve with set pressure of 8 mbar