



Characteristics of Sistema.bio®

Sistema.bio is a hermetic hybrid reactor that receives the daily waste of a farm, in which the manure mixed with water is fermented, producing biogas that is conducted through pipes to the points of use. At the other end of the system comes a powerful biofertilizer.



Durability: Our hybrid reactor is fabricated with high-quality geomembrane that is UV resistant. Piping and assemblies are made out of hydraulic and sanitary PVC, offering long lifespan in the harsh conditions of the countryside, and easy access to parts replacements.



Pre-Fabricated kit: The system is composed of a complete kit of pre-fabricated components optimized for packaging, transportation and easy installation. The manufacturing process complies

with the strictest quality control standards to ensure a long product life.



Variety of sizes: Our product catalogue offers a range of reactor sizes, from 6 to 200m³, to meet the needs of small to medium farmers.



Modular: The design allows interconnection among reactors, increasing the system's treatment capacity. This allows Sistema.bio to adapt to a wide range of scenarios, and farmers to expand the reactor according to their needs.



Easy operation and maintenance: Any member of the family or worker can perform daily activities and simple long term maintenance.

Components of Sistema.bio®

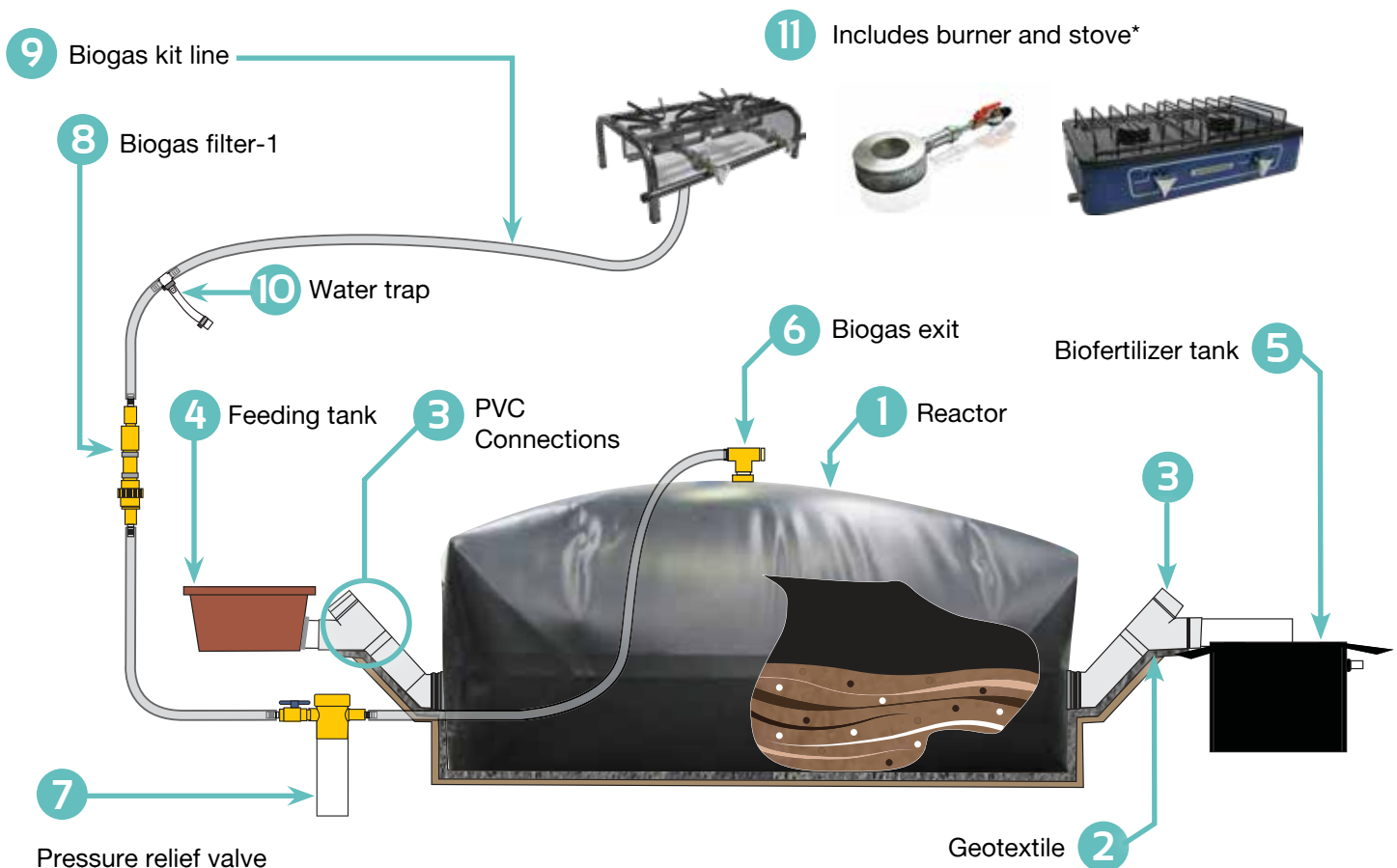
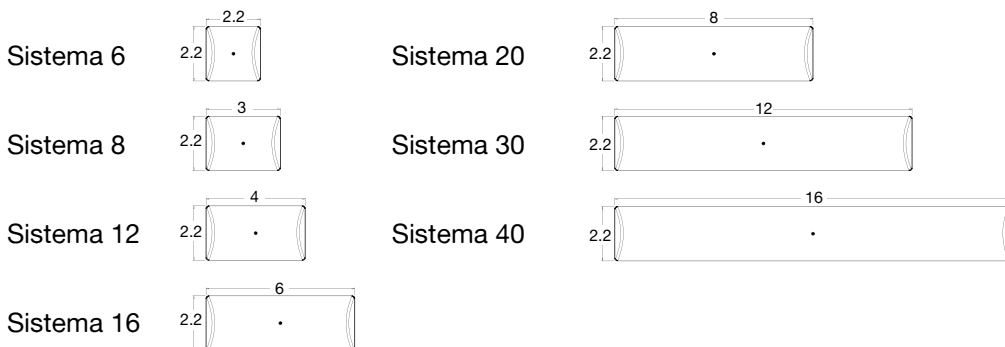


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Dairy cows								
	Model	Manure (L/day)	Number of cows	Biogas production			Biofertilizer production	
				Daily biogas production (m ³ /d) *	Daily average cooking time on dry biomass (h/day)**	Equivalent in LPG (kg/month)	(L/day)	(ha/year)
Warm climate (>23° C)	Sistema 6	45	5	1.7	3.3	21	135	4.9
	Sistema 8	65	7	2.4	4.8	31	195	7.1
	Sistema 12	90	9	3.3	6.7	43	270	9.9
	Sistema 16	130	13	4.8	9.6	62	390	14.2
	Sistema 20	180	18	6.7	13.3	86	540	19.7
	Sistema 30	260	26	9.6	19.2	124	780	28.5
	Sistema 40	350	35	12.9	25.9	166	1050	38.3
	Sistema 80	700	70	25.9	51.8	333	2100	76.7
	Sistema 120	1050	105	38.8	77.7	499	3150	115.0
	Sistema 160	1400	140	51.8	103.5	665	4200	153.3
Sistema 200	1750	175	64.7	129.4	831	5250	191.6	
Temperate climate (15° to 23° C)	Sistema 6	35	4	1.3	2.5	16	105	3.8
	Sistema 8	50	5	1.8	3.6	23	150	5.5
	Sistema 12	65	7	2.3	4.7	30	195	7.1
	Sistema 16	100	10	3.6	7.2	46	300	11.0
	Sistema 20	135	14	4.9	9.7	63	405	14.8
	Sistema 30	200	20	7.2	14.4	93	600	21.9
	Sistema 40	265	27	9.6	19.1	123	795	29.0
	Sistema 80	530	54	19	38	245	1590	58
	Sistema 120	795	81	29	57	368	2385	87
	Sistema 160	1060	108	38	76	491	3180	116
Sistema 200	1325	135	48	96	614	3975	145	
Cold climate (10 to 15° C)	Sistema 6	25	3	0.8	1.7	11	75	2.7
	Sistema 8	35	4	1.2	2.3	15	105	3.8
	Sistema 12	45	5	1.5	3.0	19	135	4.9
	Sistema 16	65	7	2.2	4.3	28	195	7.1
	Sistema 20	90	9	3.0	6.0	38	270	9.9
	Sistema 30	135	14	4.5	9.0	58	405	14.8
	Sistema 40	180	18	6.0	12.0	77	540	19.7
	Sistema 80	360	36	12	24	154	1080	39
	Sistema 120	540	54	18	36	231	1620	59
	Sistema 160	720	72	24	48	307	2160	79
Sistema 200	900	90	30	60	384	2700	99	

* The biogas production is estimated based on a standard biodigester use.
 ** The production of biogas is variable and depends on particular farm's operating conditions.
 NOTE: a waste: dilution water ratio of 1:2 has been selected for cow manure.

Comparative diagrams



Multireactors**

Sistema 80 = 2 x Sistema 40
 Sistema 120 = 3 x Sistema 40
 Sistema 160 = 4 x Sistema 40
 Sistema 200 = 5 x Sistema 40

*Units in m.**Reactors interconnected with each other.



The sistema includes:



Installation and
post sales service
included



Financing plan



Warranty

*Ask our technicians about biogas accessories available in your region.

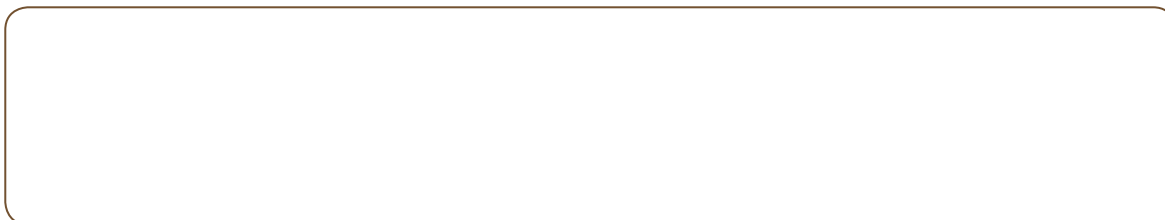
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