

Main technical characteristics:

T ST BIO heat exchangers are designed for the biogas cooling and deumidification before engine. Pipes are welded on plate pipe. Wide diameter tube for easy cleaning.

The shell made of carbon steel is supplied complete of connections for the anti/freeze solution. Headers are not scheduled, because the shell is connected directly to the pipages that arrive from the digester to the condensate separator and to the blower.

The materials used in standard realisation are:

- plate pipe in AISI304 or AIS1316,

- hydraulic shell and connections made of carbon steel,

- heat exchange tubes in AIS1316,

- diaphragms in compatible material with the used fluids.

Biogas heat exchanger dehumidifier











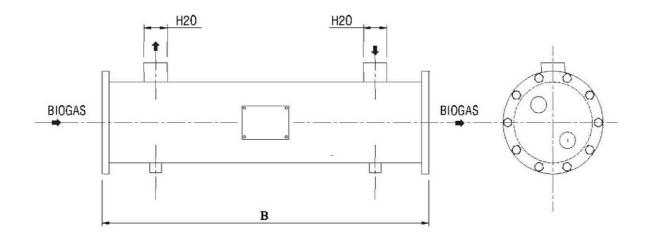
Biogas cooler





**Biogas cooler** 

## T ST BIO



Capacity		Flowrate		Connection		Dimension	
kW	HP	H2O + EG (kg/hr)	BIO (kg/hr)	H2O (FPT)	BIO (DN)	B INTERASSE (mm) (mm)	
7,3	9,7	4,3	150	1/2''	200	2000 1850	
11	14,6	8,5	300	1″	250	2000 1850	
15,5	21	12,7	450	1″	250	3000 2850	
21	28	18,9	600	1"1/2	300	2500 2350	
28	37	21,2	750	1"1/2	300	2500 2350	
41	54	28,3	1000	2''	300	2500 2350	
57	76	35,4	1250	2''	400	2000 1850	
	kW 7,3 11 15,5 21 28 41	kW HP   7,3 9,7   11 14,6   15,5 21   21 28   28 37   41 54	kW HP H <sub>2</sub> O + EG (kg/hr)   7,3 9,7 4,3   11 14,6 8,5   15,5 21 12,7   21 28 18,9   28 37 21,2   41 54 28,3	kW HP H <sub>2</sub> O + EG (kg/hr) BlO (kg/hr)   7,3 9,7 4,3 150   11 14,6 8,5 300   15,5 21 12,7 450   21 28 18,9 600   28 37 21,2 750   41 54 28,3 1000	kW HP H <sub>2</sub> O + EG (kg/hr) BIO (kg/hr) H <sub>2</sub> O (kg/hr)   7,3 9,7 4,3 150 1/2''   11 14,6 8,5 300 1"   15,5 21 12,7 450 1"   21 28 18,9 600 1"1/2   28 37 21,2 750 1"1/2   41 54 28,3 1000 2''	kW HP H <sub>2</sub> O + EG (kg/hr) BIO (kg/hr) H <sub>2</sub> O (kg/hr) BIO (kg/hr) BIO (kg/hr) BIO (PPT) BIO (DN)   7,3 9,7 4,3 150 1/2'' 200   11 14,6 8,5 300 1" 250   15,5 21 12,7 450 1" 250   21 28 18,9 600 1"1/2 300   28 37 21,2 750 1"1/2 300   41 54 28,3 1000 2'' 300	

Le potenze nominali si riferiscono alle seguenti condizioni: biogas: in 37°C u,rel, 100°/°, out 3°C, FF 0,000088 m2 K/W, Acqua + 30°/°Eg: in 0°C, out 2°C Capacity at conditions: bioqas: in 37°C, out 3°C rel-hum 100°/°, FF 0,000088 m2 K/W, Water + 30°/°EG : in 0°C, out 2°C, FF 0,000088 m

Dati soggetti a possibili modifiche / Data subject to possible changes