

Polypropylene filter

Structure:

Polypropylene filter is stainless steel construction for separation of solid particles and condensate removal. PF is also safety device against second emergency overpressure level.

Process:

Biogas flows to gas-tight two-chamber gravel filter consisting of a cylindrical tank with two biogas connection flanges and a cover plate.

Filling consists of plastic PP rings with special shape and size which guarantee low pressure loss and easy particles washing out.

Ambient temperature: min. 5°C;
working pressure: max. 50mbar;
pressure loss: ~ 2 - 5mbar.

Basic equipment:

- cylindrical two-chamber tank with two biogas connection flanges and cover with sealing;
- a condensate cylinder with water trap;
- a sleeve for water refill, flushing connection flange;
- a sleeves for pressure measuring and condensate probe;
- dewatering and flushing ss ball valves;
- rings removal opening.

Polypropylene filter should be installed with process bypass and cut-off valves to make maintenance and service easy.

- **gas-tight construction;**
- **two-chamber system;**
- **higher level PRV device;**
- **special PP-rings as separation bed;**
- **biogas flow up to 2000m³/h.**



Options:

- inlet/ outlet pressure monitoring system;
- frost protection.

Standard type of series:

Filter model	Number of filters	Gas flow rate max. m ³ /h	Filter diameter, m
FZ-01	1	0 - 100	0.50
FZ-02	1	100 - 200	0.70
FZ-03	1	200 - 350	0.90
FZ-04	1	350 - 600	1.20
FZ-05	1	600 - 1000	1.65
FZ-05	1	1000 - 2000	1.65

More options are available on request