



condens
heat recovery oy



PRESSURE FILTER

FOR REMOVING SOLIDS FROM WATER STREAMS

The pressure filter is designed for removing solids from water streams like flue gas scrubber condensate. It is easy to fit in new or existing systems. The structure of the pressure filter is compact and the operation principle is simple. It can be installed to small space and the operation cost of the unit is low. The operation is continuous and sludge removal from the filter is automated.

APPLICATIONS

The pressure filter of Condens Heat Recovery Oy is suitable for all kinds of processes to remove solids from water streams. Normal filtering result is a solid content of less than 10 mg/l in the filtrate. Beside condensate cleaning, pressure filter is suitable to filter other solids containing water streams in industrial and agricultural applications.

CONSTRUCTION

The pressure filter unit consists of a feeding pump, a filter and automated valves. The main part of the filter is changeable filter cloth. The filter operation can be modified to fit different applications.



TECHNICAL INFORMATION

Capacity*	ca. 3 m ³ /h
Water temperature	max 55 °C
Filter pressure	max 5 bar
Water pH range	4 - 10
Solids content after the filter	max 10 mg/l
Filter body material	EN-1.4404
Filter cloth material	Polypropylene, several different cloth types
Diameter	ca. 280 mm
Height	ca. 1700mm

* Capacity varies depending on the used filter cloth type, solids content of the condensate and properties of the solid matter.

ECONOMY

Condensate cleaning with the pressure filter is an easy, practical and economical solution. To work the pressure filter unit only requires electricity for the feed pump and pressurized air for valves.

ENVIRONMENT

The clean filtrate can be recirculated or drained. Separated solids are collected for recirculation or disposal.

OPERATION

The pressure filter is operated unattended. The filter cloth is cleaned automatically by a backwash when removing solids from the filter unit. The filter cleaning cycle is adjusted to match the different solids content of the incoming liquid stream. The filter cloth change interval varies from 4 weeks to 12 months depending on application.



condens
heat recovery oy

Puhelinkatu 12
13110 HÄMEENLINNA
FINLAND

tel. +358 3 6533 111
condens@condens.fi
www.condens.fi