

MODERNIZATION (REANIMATION) OF BAG FILTERHOUSE

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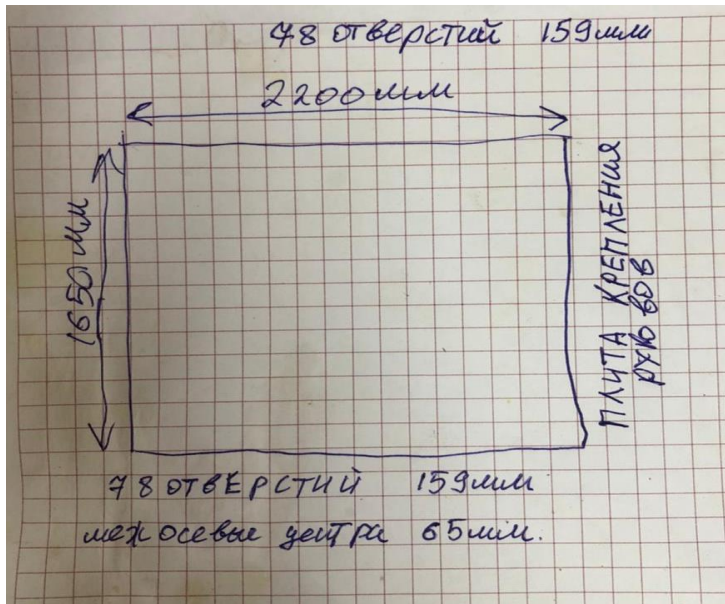
Pereslavl-Zalessky, 2021

BAG FILTERHOUSE

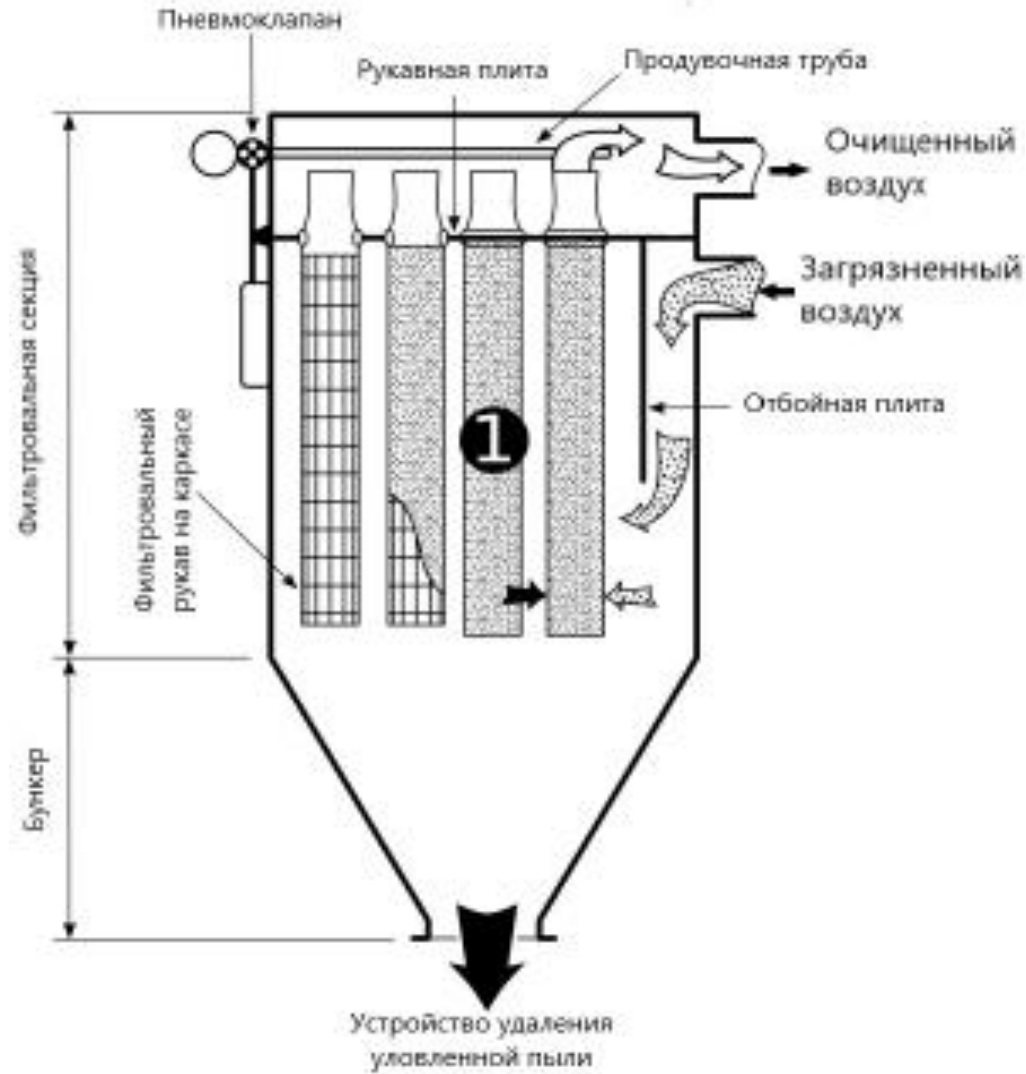
(80 filter bags)

- Ventilator DN-12,5 75 kW 1500 turns/min.
Cyclon's group - 6 units. Productivity - 35000-40000 m³/h. Raw humidity 4-12 % limestone, drying drump output temperature is 160-200 °C. Filterbag parameters: length 2000 mm, diameter 160 mm, distance between filterbags is 70 mm. Quantity - 80 bags. Mineral powder production.

BAG PLATE



FILTER PLAN



STANDARD BAGS



FILTER INDICATIONS

- Area of filtration is 90 sq.m.
- Gas flow 25000–40 000 m³/h
- Gas load is 5-9 m/min
- Velocity between filterbags is 3,64 m/sec

BAG FILTER IS OVERLOAD

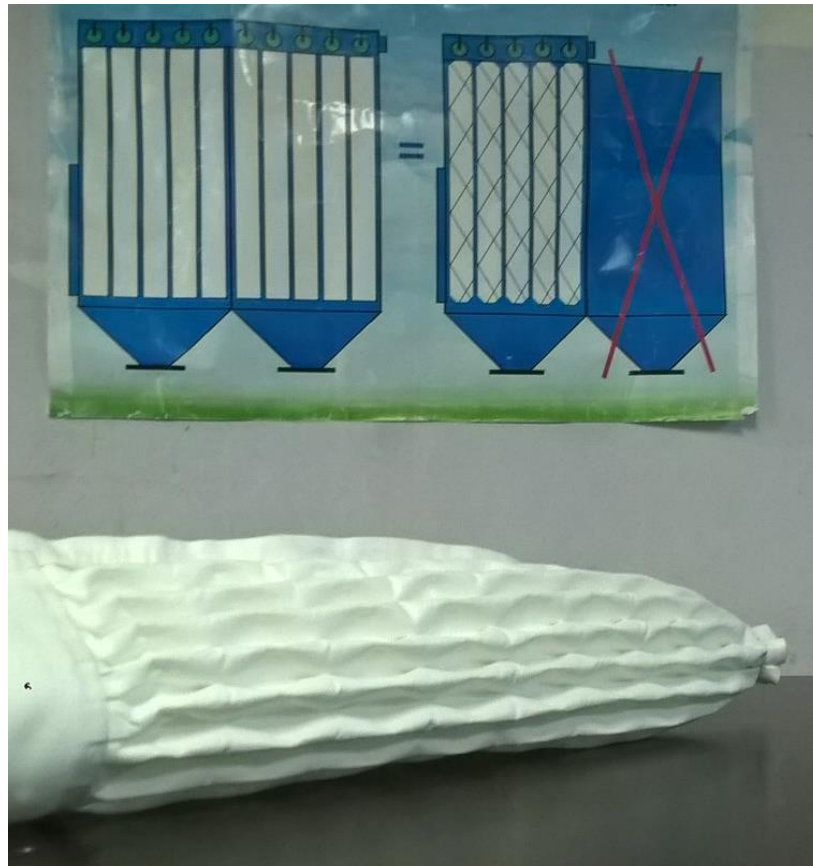
Impulse pressure is 12 bar, filterbags are breaking,
Ventilator is on max output. Gas burner is on half
output. Interval between impulses is 12 sec.

Production is impossible.



3DESA-FILTERPATRON

is our proposal as solution of this
problems



FILTER ELEMENT 3DESA



- 3DESA-filterbag



- Cage

FILTERBAGS AND CAGES INSTALLATION



COMPARISON



DISTANCE BETWEEN FILTERBAGS



FILTER INDICATIONS AFTER MODERNIZATION

- Area of filtration is 320 sq.m.
- Gas consumption is 25000-40000 m³/h
- Gas load is 1,3-2,0 m/min
- Velocity between filterbags is 2,1-3,4 m/sec

RESULTS

Full power production. Gas burner is on max output, ventilator is on half output.

