

Particulate and Condensable Removal

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midwesco
Filter Resources, Inc.



TDC Filter
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TDC Pleated Products: As Part of the Total Approach to Compliance

- MATS
- MACT
- PM
- HG
- **CSAPR**
- **NAAQS**





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Efficiency Standard / Comparison

ASTM 6830-02

VS.

ISO VDI



ASTM 6830-02 Comparison of Media

Parameters	Spun Bond Polyester with High efficiency ePTFE Membrane	18-20 Ounce Polyester Felt
PM 2.5 Emissions (g/dscf)	.00000073	.0000073
Total Mass Emissions:	.0000073	.0000073
Avg. Residual Pressure Drop (cm w.g.)	1.40	2.67
Filter Sample Weight Gain (grams)	2.67	8.64
Avg. Filtration Cycle (secs.)	154	37
Number of Pulses	142	558



ENERGY SAVINGS

Electricity Savings:			
	System:	Operating	Annual
	Static	BPH	OPR cost
18-20 Polyester Felt	14"	147	\$53,655
SB-TX	11"	122	\$44,530
ANNUAL SAVINGS			\$9,125

ENERGY SAVINGS

Compressed Air Savings:

1.5" Valves	Seconds Firings	Annual CUFT Usage	Annual Cost:
18-20 Polyester Felt	37	\$1,704,649	\$17,046
SB-TX	154	\$409,558	\$4,095
Annual Savings			\$12,950
Total Annual Energy Savings			\$22,075



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Capturing Condensables

“Condensed vs. Condensables” makeup

30 gr

60-120 gr

- Condensing
- Residence Time
- A Scrubber
- **NAAQS CASPR**





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Q & A

THANK YOU!

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