CUSTOMER		
THE BOW CENTER		
LOCATION	ROI	
CALGARY / 2017	KOI	REDUCTION IN STRING FILTER
EQUIPMENT		REPLACEMENT
OFFICE TOWER		\$10,560
APPLICATION		
CONDENSER WATER LOOP, GLYCOL LOOP, COOLING TOWER, PRIMARY CHILLED WATER LOOP, PRIMARY HEATED LOOP		LESS FREQUEN LABOUR EXPEN \$13,920

## CHALLENGE

The Bow Center was concerned with the environmental impact of their existing filtration system. There are 26 filtration units between the condenser water loop, glycol loop, cooling tower, primary chilled water loop, and primary heating loop of The Bow Center. Each uses filters that are not recyclable and the frequency of replacement meant significant and consistent waste. String filters are not recyclable or eligible for traditional landfill facilities.

- » Upwards of 2700+ contaminated string filters were being replaced annually at a cost between \$5.80 and \$7.50 each.
- » All 26 filters were being replaced twice weekly involving a full day of labour with each replacement.
- » Disposal costs of \$175 / ton with a \$275 surcharge were also being incurred.

## SOLUTION

Install an OEI cleanable, stainless steel ADD-Vantage 9000 in front of all existing sting filters to improve the environmental impact of the Bow Center. Stainless steel, <sup>3</sup>⁄<sub>4</sub>" 9ADV9-VS116 filters were added in front of all 26 existing string filters.





PRODUCT RECOMMENDATION

ADD-VANTAGE 9000 VS STAINLESS STEEL



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## RESULTS

403.242.4221

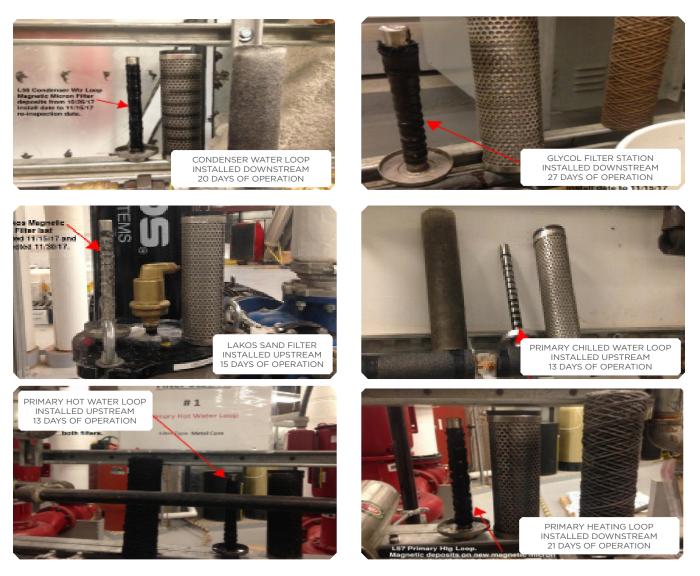
The addition of OEI filtration has significantly reduced the number of filters The Bow Center is sending to the landfill each year.

Condenser loop, glycol loop, and chilled water loop filters are checked weekly and string filters now last over one month before requiring replacement.

The new filtration process means a reduction in annual filter costs from \$15,680 to \$5,130, a savings of \$10,550 (year 1); because OEI filters are a one time purchase, the annual filter replacement savings increases to \$15,690 each following year.

Annual labour costs reduced from \$16,640 to \$2,720, a savings of \$13,920.

The Bow Center is also seeing 1% of sand removed from the cooling tower every 2 days.



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