

# Thirst Quenched

**FLSmidth**

**PRODUCT**

gMAX® Cyclone Vessel



**APPLICATION**

Water Filtration



**INDUSTRY**

Steel Mill



■ **The Challenge**

A Saskatchewan steel mill required a new filtration solution for its quench water. The self-cleaning system being replaced required costly and time-consuming service and maintenance frequently due to poor and inconsistent performance.

■ **The Solution**

When presented with the problem, Welco's engineering team and service experts explored several options for the client and recommended the FLSmidth **gMAX® Cyclone Vessel**.

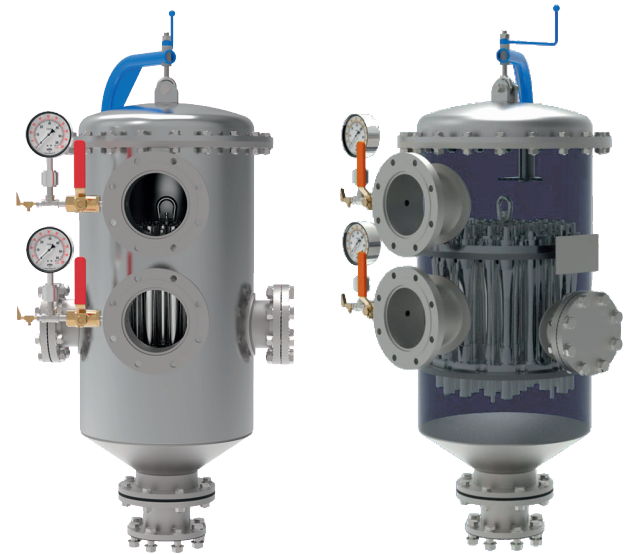
The unit utilizes hundreds of small cyclones to accommodate the design capacity of 1850 gpm.

In this application the system efficiently removes 100% of particles greater than 5 µm without the need for filter media.

Solids collect in the bottom of the vessel and are discharged to a sump.

■ **The Outcome**

Following several months of reliable, uninterrupted performance, the vessel has far exceeded expectations for both performance and ease-of-operation.



Schematic of gMAX Cyclone Vessel



The cyclones work perfectly. It has allowed us to meet our target water clarity and eliminate constant maintenance.

Maintenance Superintendent

**1850**

GPM

**100%** Particle Removal greater than 5 µm

**gMAX® KEY FEATURES**

High efficiency

Small footprint

Excellent separation performance

Extreme reduction of inclusions

Easy to maintain

Low maintenance costs

Welco provides clients with industry-leading equipment and insight for industrial mixing, moving and pumping applications.

Our team is comprised of people who work with you and for you. They are a proactive group of technical experts with the knowledge and experience to provide you with smart, creative and cost-effective solutions.

