



# Floccell XFM 10

## Modular Filtration System

# Specification Document

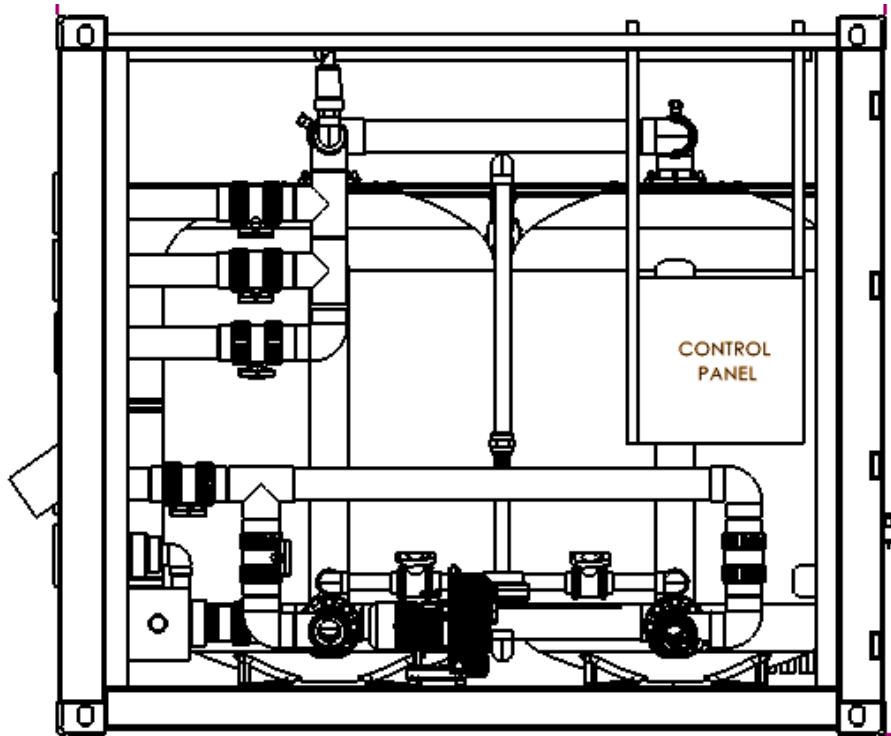
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### VERSION CONTROL

ISSUE	DETAIL	APPROVED	DATE
1	First Release	ZB	24-10-2024
2	Document title updated and some minor rewording	ZB	30-10-2024
3	Marketing Department Comments added	ZB	04-11-2024

## Floccell XFM 10 Modular Filtration System



*(IMAGE SHOWN WITH SIDE ACCESS DOORS REMOVED FOR CLARITY)*

### 1. General Overview

Aspect	Description
Overall Dimensions	Length: 10FT, Width: 8FT, Height: 9.6FT
Container Type	10FT High Cube, ISO Certified
Maximum Operating Pressure	2 bar
Flow Rates	Feed: 10 L/s, Sludge: 10 L/s
Total Liquid Volume	2500 L
Total Filtration Bed Surface Area	2.18 m <sup>2</sup>
Weight	Dry 2,700kg ≈ Wet 5,650kg ≈



## 2. Power Consumption

Mode of Operation	Normal Usage (kWh/day)	Winter Usage (kWh/day)
<b>With Sludge &amp; Feed Pump</b>	69.7kWh/day	73.7 kWh/day
<b>Gravity Operation</b>	17.0 kWh/day	21.0 kWh/day

## 3. Key Components

Component	Specification	Details
<b>Filter Housing</b>	2x 1200mm diameter	High-capacity design with minimal hydraulic loss and low cleaning frequency
<b>Feed Pump</b>	3-phase electric pump, 2.2 kW, operates 24 hours/day (if pumped feed)	High efficiency, operates continuously
<b>Gravity Fed Option</b>	No pump required	Operates without the pump, saving energy
<b>Sludge Pump</b>	3-phase, 1.5 kW, operates at 10 L/s	Used for sludge removal during backwash
<b>Air Blower</b>	3.45 kW, 6.7A, delivers 95 m <sup>3</sup> /hr	Ensures effective air sparging for cleaning media
<b>Ventilation Fan</b>	Axial fan, IP54, single phase	Provides continuous airflow
<b>Heater</b>	0.5 kW Tube Heater, IP66	Provides frost protection and heating
<b>Lighting</b>	Single LED, 240V	Energy-efficient



## 4. Control System

Component	Specification	Details
<b>Control Panel</b>	Centralised control	Manages feed pump, sludge pump, air blower, ventilation, and heating with automatic and manual override
<b>Backwash Cycle</b>	Manual	Requires manual initiation; air sparging for 10 minutes weekly.

## 5. Connection Sizes

Connection Type	Description
<b>Inlet</b>	4" PN16 flange, reduced to 2" Bauer
<b>Outlet</b>	4" PN16 flange, reduced to 2" Bauer
<b>Air Vent</b>	4" PN16 flange, reduced to 2" Bauer
<b>Head of Works</b>	4" PN16 flange, reduced to 2" Bauer
<b>Sludge Outlet</b>	4" PN16 flange, reduced to 2" Bauer

**Note:** All connections will be supplied with a 2" Bauer connection for the customer to connect to.

## 6. General Arrangement Drawing

