



# COLORMATRIX™ FLEXONE™

A Sustainable Solution  
for Liquid Metering



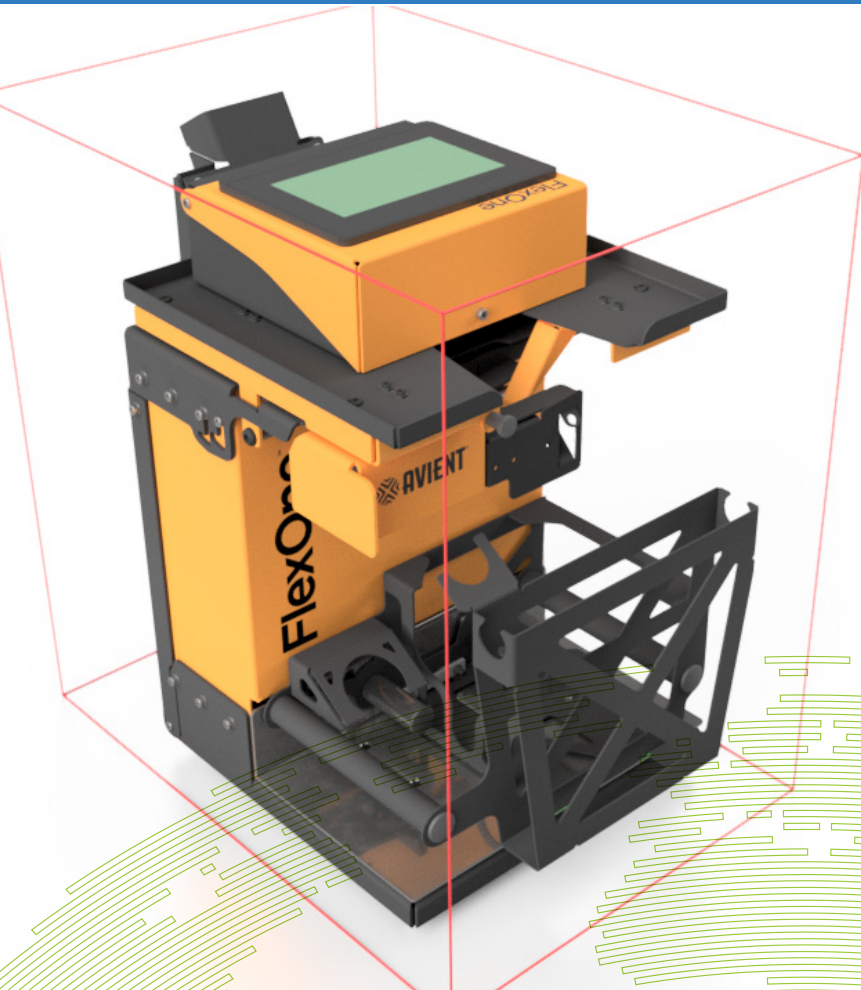
# FLEXONE – LIQUID METERING SOLUTION

ColorMatrix™ FlexOne™ is a single unit designed to meet current and future liquid metering for a range of applications within the polymer industry.

FlexOne is a result of innovative engineering and design in pumping technology, to provide a new unit with a considerable size reduction compared to existing equipment.

The extremely versatile FlexOne works uniquely with Avient's patented PlanetPak™ delivery containers to provide liquid metering.

The overall system delivers sustainable liquid metering with user-friendly technology, high yield, reduced logistics impact and recyclable packaging.



## **Innovative engineering and design**

ensures the FlexOne unit can fit inside a small box, rendering logistics more efficient and sustainable.

All FlexOne units are supplied directly from Avient's distribution hub, ensuring consistent of customer service and eliminating variation of supply.

**Global reach** includes the capability of remote technical services and data management, allowing users to interrogate their systems on an intranet as well as getting Avient support remotely.

The FlexOne system meets the requirements of our Voice of the Customer surveys, incorporating state of the art control including:

- Self-calibration
- Gravimetric metering
- Plug & Play modules
- RFID tagging
- Data acquisition
- Remote networking

## PLANETPAK – “PUMP-IN-THE-BOX” TECHNOLOGY

FlexOne is designed to work with a PlanetPak liquid container. The basis of a PlanetPak container is a robust polythene liner with a proprietary collapsing design, enclosed in a cardboard shell and housing an integrated delivery pump.

Once opened the pump connects seamlessly to the FlexOne drive motor and additional features of RFID tagging are available to track material usage.

All PlanetPak containers are recyclable, with the liners and outer shell readily processed in all regions.



## PLANETPAK – KEY ATTRIBUTES

- Customers can expect to achieve 99%+ yield of liquid contents from a PlanetPak container
- The square footprint allows effective and efficient transportation & storage
- The liner and outer shell can be separated easily and compressed for efficient recycling
- The polythene liner remains sealed at all times, eliminating the risk of spills and contamination
- Tamper-evident and UN rated for safe transportation of classified goods
- Food contact approved use

PlanetPak liquid containers come in 25L, 15L, 5L, 3L and 1L sizes— all with the integrated pumping technology and all recyclable.

PlanetPak containers sustainability credentials are impeccable including:

- Recyclable material content
- Efficient use of recycling skips due to flat packing
- Efficient logistics based on shape

## HOW DOES THE SYSTEM WORK?

FlexOne works as a compact mobile metering system, designed for easy use. An overview of the system components is to the right.

Once connected, FlexOne self-calibrates its output and then tracks the input signal from the host machine allowing the unit to accurately meter the required color or additive for the process.



## TECHNOLOGY DEVELOPMENT

FlexOne has been developed to meet the current needs of the market and is designed with future technology in mind.

The control system is flexible, allowing users access to a range of data management functions. These are built into the programming depending on the version of the system chosen for the application.

All features are designed as Plug and Play, so the modular units can easily be retrofitted or exchanged within 24hrs via the distribution hub.

FlexOne units are supplied as either E, Q or P versions with technology applicable to the customer needs.

The E unit provides users with all the core innovations of FlexOne linked to a familiar analogue interface.

Q/P units come with touch screen interface systems and a range of additional technology features for more complex material handling needs.



## FLEXONE – TRIALS SOLUTION

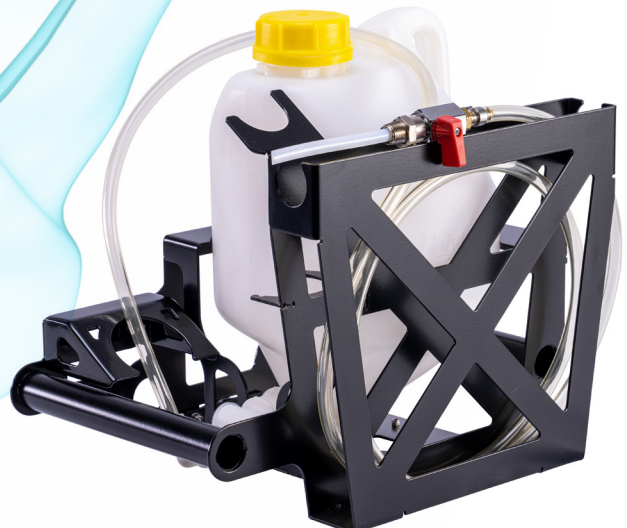
The FlexOne technology reduced to a camera-bag-sized unit for efficient on-site customer trials. The optimized, unique metering unit is carried by our Technical Representatives in a shoulder bag, resulting in a no-fuss approach that allows trials to take place with minimal disruption and to confirm the operability of FlexOne and Avient products on your production line. All that's needed is:

1. A date for a trial that fits with your production plan.
2. Avient Technical Service will order and deliver a 1L or 3L PlanetPak trial kit to your site.
3. Our Technical Service Engineer will arrive with the FlexOne Trial Unit, plug it in and run the trial.



## QUICK CHANGEOVER RESERVOIR

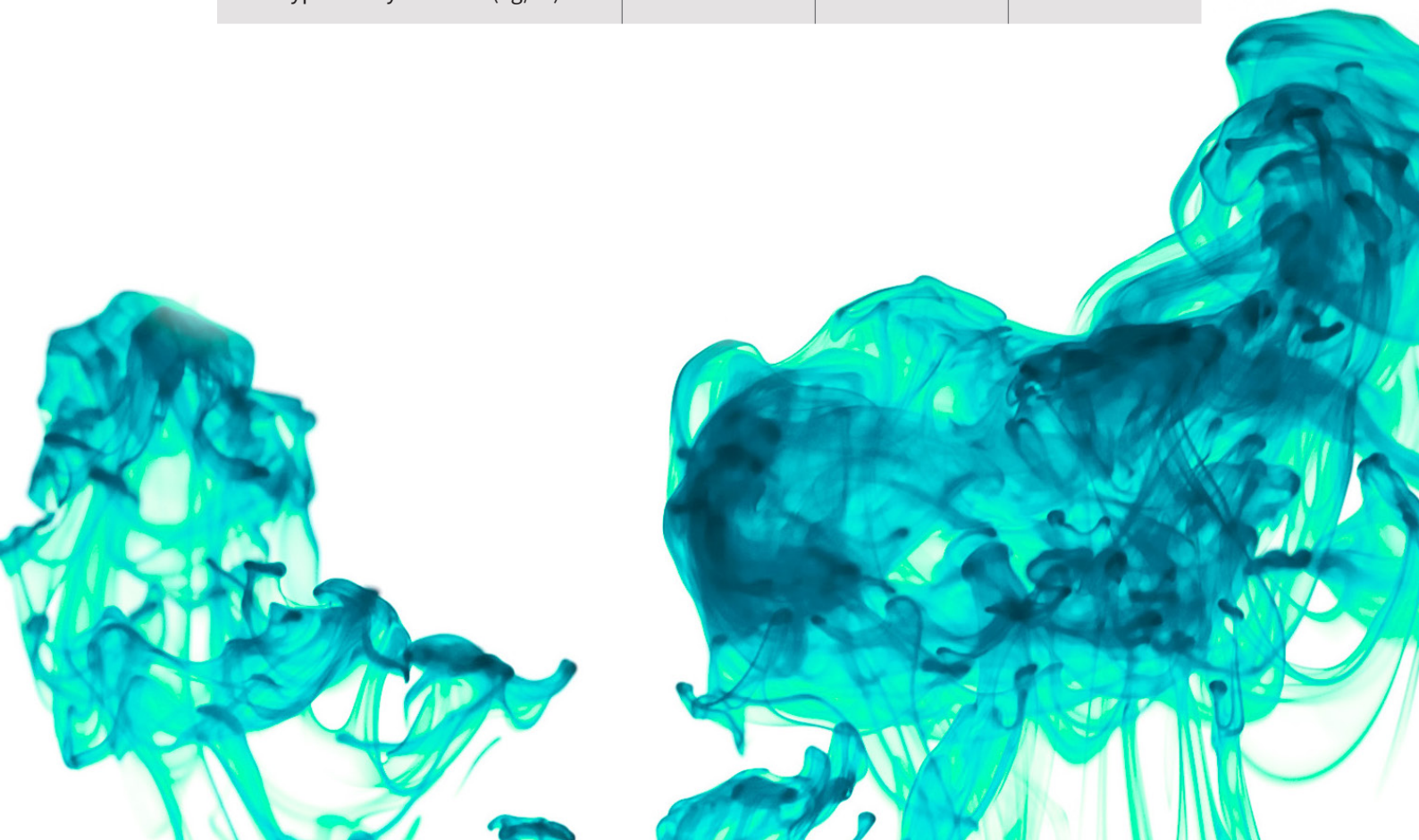
The reservoir cassette is a key operating element of the FlexOne unit, allowing users to quickly changeover color. This achieves both ease of running continuously and reduces lost time associated with set up.



## CHOOSING THE RIGHT FLEXONE OPTION

FlexOne has been designed to allow the use of modular connections, depending on which operation it will be used for. This includes access to different pumping units and software capabilities—all housed in a standard unit design.

FLEXONE UNIT	FLEXONE - E	FLEXONE - P	FLEXONE - Q
Metering Pump	PCP/Quantex	PCP	Quantex
Self-Calibrating	✓	✓	✓
Volumetric & Gravimetric	✓	✓	✓
Interchangeable Reservoir	✓	✓	✓
Continuous Use	✓	✓	✓
Touch Screen	✗	✓	✓
Multiple Log-In Levels	✗	✓	✓
RFID	✗	✓	✓
Network Capable	✗	✓	✓
Data Acquisition	✗	✓	✓
Remote Access Functions	✗	✓	✓
Sustainable Pumps	✗	✗	✓
Typical Polymer Rate (kg/hr)	50–1000	50–1000	50–1000





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