FLEXCART™ LIQUID METERING SYSTEM
Combined with the PlanetPak™ delivery packaging

FLEXCART™ LIQUID METERING SYSTEM

FlexCart™ equipment and PlanetPak™ containers are the essential components of the Avient proprietary liquid metering systems. The FlexCart flagship model is available with a host of optional design features to accommodate your liquid metering requirements.

The FlexCart flagship metering system is the largest option available in the range using a container suitable for manual handling.

PlanetPak containers are optimized and recommended for Avient liquid colors and additives.

OPTIONAL EQUIPMENT

The FlexCart system can be configured with a variety of equipment accessories. These include controllers, pumps and packaging options.

Choice of accessories will depend on what your process requires:

- Is the process continuous?
- What is the range of throughput?
- Are data management facilities needed?
- Is gravimetric capability required?
- What is the normal liquid addition rate?
- What is the length of production runs?

VALUE BENEFITS OF USING FLEXCART™ AND PLANETPAK™ COMPONENTS

FlexCart & PlanetPak components offer a market leading metering technology:

- Robust and dependable system control
- Reliable yield (typically 99% using PlanetPak) and sustainable packaging
- Data networking and remote Internet support capabilities
- Simplified changeover with interchangeable cassettes of color and additives

ATTRIBUTE	FLEXCART
Footprint (LxW cm)	86 x 71
Controller options	3000/Flex G 5000/6000
Typical max. throughput (kg/hr)	1000+
Max. metering rate (cc/s)	10
Continuous use	Yes
Transfer pumps	PC/Peri
Metering pumps	PC/Peri
Interchangeable cassette	Yes

Note: PC = Progressing Cavity Pump
Peri = Peristatic Pump

PLANETPAK™ CONTAINERS

The FlexCart system is designed to work with the standardized PlanetPak container range of packaging, typically achieving 99% reliable yield while also achieving a sustainable packaging format that is fully recyclable.

The range of sizes suitable for the FlexCart flagship metering unit are at the larger end of the PlanetPak range—25L and 15L containers.

The basis of a PlanetPak container is a robust polyethylene liner with a proprietary collapsing design, surrounded by a cardboard outer shell. The polyethylene liner has a non-drip valve outlet that connects seamlessly to the FlexCart metering system, and the outer shell is designed to fit onto the FlexCart carriage.

OTHER PACKAGING OPTIONS

The FlexCart system can be used with other containers, which could include Intermediate Bulk Containers (IBC), drums or pails.

FLEXCART OPTIONS

The table below provides some guidance on the choice of optional components.

OPTION VS. ATTRIBUTE	PC PUMP	PERI PUMP	CMG3000	FLEX G	CMG5000	CMG6000
Delivery throughput	High	Low	–	–	–	–
Metering throughput	High	Low	–	–	–	–
Volumetric/gravimetric	V	V	V	Loss-in-weight	G	G
Data export/network	–	–	No	Yes	Yes	Yes
Touch screen	–	–	No	Yes	Yes	Yes
Multiple log-in levels	–	–	No	No	Yes	Yes

The range of progressing cavity pump rates attainable can be used to determine the correct size of pump.

PC PUMP RATE (cc/rev)	0.09	0.28	0.87	2.6	5.2
RECOMMENDED OUTPUT RANGE (g/min)	0.9–9	2.8–28	8.7–87	26–260	53–520
MAX PUMP OUTPUT (g/min)	18	56	174	520	1040

Avient can provide support and assistance on every aspect of liquid color and additive processing. Our teams are available through your local commercial contact, directly at +1.844.4AVIENT, or visit www.avient.com.

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