



APV FX Flex-Mix™ Continuous Sugar Dissolver

APV FX SYSTEMS™



Engineering excellence, allied to stringent quality control, ensures that SPX's unrivalled range of APV products complies with the highest international standards for hygiene. In the light of growing pressure worldwide to deliver safe, high quality food, all SPX products are designed for easy cleanability, while minimising the use of valuable resources, such as energy. The APV product portfolio includes a wide range of pumps, valves, heat exchangers, mixers and homogenisers designed for use in the food, dairy and brewing industries, as well as in chemical, healthcare, pharmaceutical processing and heavy industries.

APV FX SYSTEMS™

APV Factory Express (FX) Systems are high-quality, skid-mounted, Plug & Produce application solutions marketed by SPX under its APV brand. They are designed for beverage and bulk syrup manufacturers all over the world who require reduced lead time for delivery of high-quality, low-risk solutions for plant upgrades or extensions. Based on standardised modules designed, built and backed by SPX, APV FX Systems leverage proven APV/SPX engineering and automation, and comply with global industry standards.

Optimum flexibility - great cost saving potential

SAVE COSTS AND IMPROVE EFFICIENCY

ON-SITE SUGAR SYRUP PREPARATION

The APV Flex-Mix™ CSD (Continuous Sugar Dissolver) is a fully automatic sugar syrup blending system that can be readily integrated with existing or new beverage processing facilities. Flexibility, a wide choice of capacities, high Brix accuracy and significantly reduced labour costs ensure reliable production and high return on investment over a long service life.

On-site liquid sucrose blending with the APV Flex-Mix™ CSD System offers a unique combination of advantages:

BENEFITS

- Access to the extensive SPX Food & Beverage processing knowledge pool
- Reduced labour costs and cleaning time through the use of self-cleaning final filters (hydrocyclones)
- Fully automatic Brix control using in-line refractometers or mass flow meters
- Global availability of standardised units with reduced lead time, attractive cost, uniform and high quality
- Lower energy costs via PHE heat recovery
- Capacities ranging from 5 to 40.000 kg/h
- Easy integration with other SPX beverage processing solutions
- Short pay-back time and high ROI over a long service life
- SPX global service and support
- Modular system for complete flexibility
- Small footprint for installation in spaces too small for other equipment
- Pre-assembled and factory-tested for easy and fast installation based on standardised design

PRODUCT UNIFORMITY

- An accuracy of $\pm 0.1^\circ$ Brix in the final product
- Blending control based on Brix analyses using an in-line refractometer in the ready mixed product line
- Jet mix principle for optimum dissolving in the dissolver tank
- More precise and consistent product, resulting in savings in raw ingredient consumption as well as satisfied customers

LOWER PRODUCTION COSTS

- Fully automated for manpower savings
- Short settling time
- High accuracy eliminates the need for analysis of the syrup in a buffer tank, enabling the product to proceed directly to the pasteuriser
- Low maintenance and energy costs

FLEXIBILITY

- Large capacity turn down ratio
- Small footprint with additional space savings through elimination of large batch mixing tanks
- Skid mounted for easy relocation

OPTIONS

- Construction to 3A standards for US market
- 40 µ duplex filters for final syrup
- Tank construction in 316L stainless
- Allen-Bradley Control Systems
- Remote diagnostics via Internet
- Ethernet port for connection to customer-supplied HMI

DEDUCTIONS

- Remove control panel and motor starters – termination panel only
- Downgrade refractometer Brix measurement to mass flow meter Brix measurement

SHORT TIME TO PRODUCTION

- Each module contains a full set of installation instructions for fast assembly and connection

PROVEN RELIABILITY

- Full testing of each unit by SPX specialists prior to shipping
- Rapid installation and commissioning
- Proven functionality and performance

STANDARDISED TURNKEY PACKAGE

- Skid-mounted system
- Fast delivery
- Commissioning
- All in the box – all in the price

SERVICE AND SUPPORT

- Customised service and maintenance agreements
- Global delivery of genuine SPX spare parts
- Application consulting

WORLD-LEADING EXPERTISE AND SUPPORT

The SPX Innovation Centre based in Silkeborg, Denmark, makes plant facilities available for customers wishing to test new processes and optimise existing process parameters with the assurance of production scalability. Plant is also available for rent, enabling customers to conduct trials on their own premises.

Typical product applications

SYRUP



SUGAR



BEVERAGE



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ABOUT SPX

Based in Charlotte, North Carolina, SPX Corporation (NYSE: SPW) is a global Fortune 500 multi-industry manufacturing leader. For more information, please visit www.spx.com.

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