BLEND ONSITE SOLUTIONS
SANITATION SYSTEMS OVERVIEW

THE SYSTEM

OVERVIEW

Birko's Blend OnSite Solutions include chemical dispensing controllers for users that are looking to better manage and control their dispense usage. Single and multi-step recipe applications allow for Birko's proprietary blending chemistry using a variety of dispense methods.

Configurable user login accounts restrict access to chemistry on a per-user basis. Data reports containing dispense logs and consumption reports for all users are recoded for review.

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COST SAVINGS

No more spills or incorrect measurements. With Birko's chemical allocation systems, you can be sure that your chemicals and money are being used to their fullest.

UNIVERSAL FEATURES

AUTHORIZED USER LOGIN

Access to controllers can be limited by requiring a 4-digit login for all employees. Login codes are custom to each individual user allowing all dispense activities to be recorded for review.

SIMPLE TO USE

Simple and intuitive User operation. Easy configuration using the large, bright screen and sealed, water/chemical resistant keypad.

EASY ACCESS TO INFORMATION

Dispense reports for all users are recorded on the units to be reviewed for greater accountability of chemical consumption.

FLEXIBLE AND EXPANDABLE OUTPUTS

Solenoid valve output devices simply daisy-chain together for plug and play installation and replacement. Available as single 2-way valves or four 3-way valves for controlling large AODD pumps.

3 MODELS

Whether you need just a few features or all of them, we have you covered with a variety of options to choose from:

BIRKO PRO

BIRKO ELITE

BIRKO LITE

EMPLOYEE SAFETY

Take the responsibility of chemical mixing and handling off your workers. Simply program your Birko chemical mixes into the Birko Blend OnSite controllers and provide access to only authorized employees.

REPORTS

Record who, what, when, and where. Create accountability and keep track of where expensive chemical is going.

	BIRKO PRO	BIRKO ELITE	BIRKO LITE
DISPENSE TYPE	Fixed Time Calibrated Time Weight Based	Fixed Time Calibrated Time	Fixed Time
REPORTING	Online via Clean Intel Email	USB Email	USB
SYSTEM CONFIGURATION	Front Panel Online via Clean Intel	Front Panel Online via System Editor	Front Panel
SCREEN	10" Touch Screen HMI	Text (4 x 20 Characters)	Text (4 x 20 Characters)
NETWORK CONNECTION	Cellular Ethernet	Ethernet WiFi	None
USER LOGIN	Yes (4-Digit or RFID)	Yes (4-Digit or RFID)	Yes (4-Digit or RFID)
DISPENSE PERMISSIONS	Yes	Yes	No
RFID SCANNER	Included	Included	Optional
WEIGH SCALE COMPATIBILITY	Yes	No	No

BIRKO PRO

OVERVIEW

The BIRKO PRO model offers sanitation managers the highest level system available to control and record chemical consumption. PRO units allow authorized users to log in with a 4-digit code or HID RFID access card to reliably dispense chemicals via time or weight-based methods.

The color screen and stainless steel piezo keypad provide an easy interactive platform, making the dispensing process as smooth as possible.

- Uses Clean Intel web interface
- Access codes for all users (4 digit)
- HID® RFID reader
- Watertight enclosure

- Send automated email alerts and reports to:
  - Account Managers
  - Plant Personnel
  - Chemical Operators

FEATURES

SCALE COMPATIBILITY

The BIRKO PRO unit is the only allocation system available that is capable of weight-based dispenses alongside the standard time-based methods for ultimate user control.
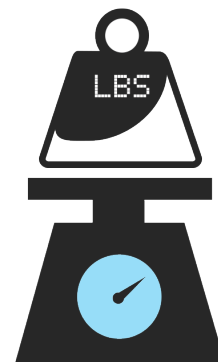
ACCESS ANYWHERE

Online administration tools and reports can be accessed from anywhere with an Internet signal for increased accountability and flexibility using the Clean Intel web interface.
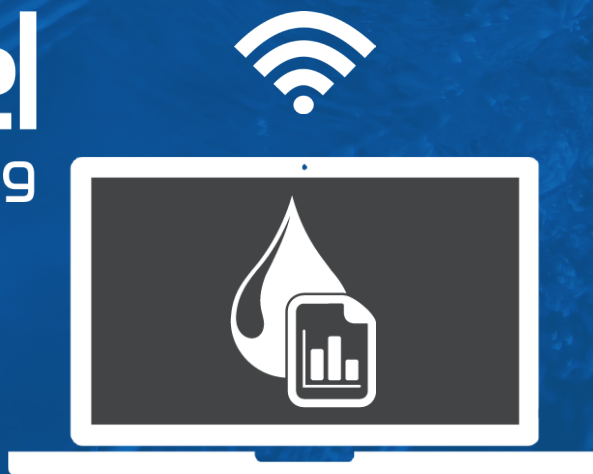
USER PERMISSIONS

Access to dispense application recipes can be limited on a per-user basis in a rolling time period. Individual users are also able to be blocked from specific application recipes for greater control over restricted products.

For example: "User 1" can dispense "Application A" 3 times a day.

Clean Intel Reporting

BIRKO PRO units integrate with the Clean Intel website that acts as a centralized location for all reporting and data stored on the system. Its secure connection ensures privacy of all data and allows managers to create new users, assemble chemical application recipes, and edit user permissions both in the field or on the go.
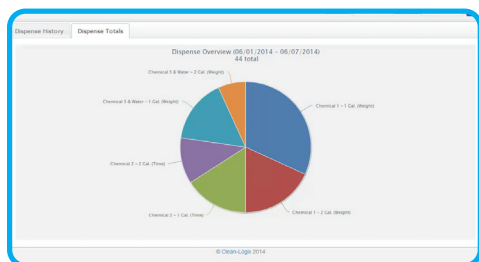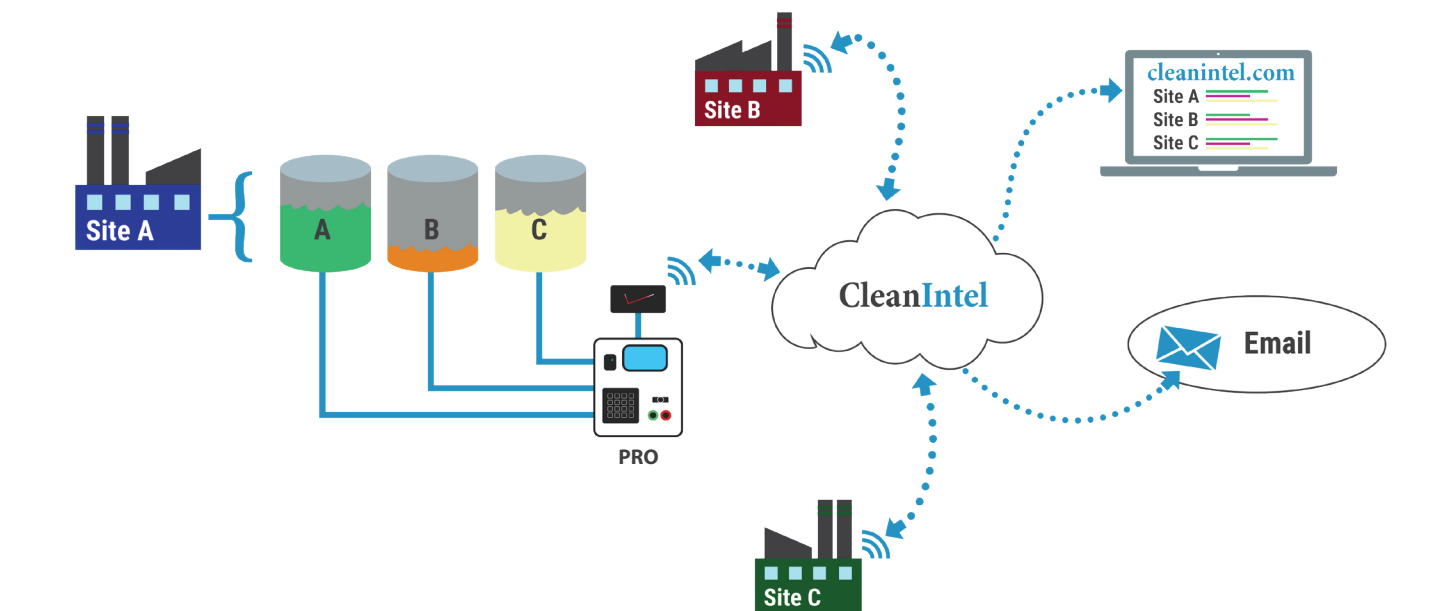
SYNC DATA

PRO controllers automatically sync to Clean Intel hourly for constant data connection. Automatic or manual syncing forwards all current data on the unit including users, applications, permissions, chemicals, and reports.

RECORD AND REPORT

Consumption reports and dispense logs track chemical quantities along with the who, what, where, and when for all users, providing accountability on chemical use. Reports can be scheduled for automatic emails, viewed on Clean Intel, or downloaded as an Excel document.

DISPENSE OVERVIEW

CONSUMPTION REPORTS

APPLICATION RECIPES

BIRKO ELITE

OVERVIEW

The BIRKO ELITE is a flexible, mid-level chemical dispensing controller for users that are looking for more features than a LITE, but don't need the power of a PRO. Multi-Step application recipes allow for blending chemistry using calibrated time-based dispensing. Configurable user permissions restrict access to chemistry on a per-user basis. Data is recorded to .CSV files which can be automatically emailed or downloaded to a USB drive.

CALIBRATIONS

Easy to use Calibration process takes the trial-and-error out of determining pump run times to achieve any desired amount of chemical.

RFID CARD LOGIN

Standard HID® RFID card reader allows Users to log into the system using new or pre-existing cards.

DATA ACCESS

Email dispense reports or download them to a USB drive. (USB port is sealed to IP68 when cap is installed)

FEATURES

SIMPLE AND EASY TO USE

Simple and intuitive user operation. Easy configuration using the bright 5"x 2" text screen and sealed membrane keypad.

RFID CARD ACCESS

Standard RFID card reader allows users to log into the system using new or pre-existing cards (HID® brand cards only).

USER PERMISSIONS

Access to dispense application recipes can be limited on a per-user basis in an adjustable rolling time period. Individual users can also be blocked from specific application recipes for greater control over restricted products.

For Example: "User 1" can dispense "App. A" 3 times a day.

EASY ACCESS TO INFORMATION

Email dispense reports on a daily, weekly or monthly basis or download them to the USB drive using the sealed USB port. (USB port is sealed to IP68 when cap is installed).

SYSTEM EDITOR

OVERVIEW

BIRKO ELITE units broadcast a local, secure WiFi network users can connect to via a computer, laptop, tablet, or smartphone to login to the System Editor website. The website allows administrators to manage users, devices, and application recipes all through their web browser. Any modifications appear in real time on the BIRKO ELITE unit once saved.
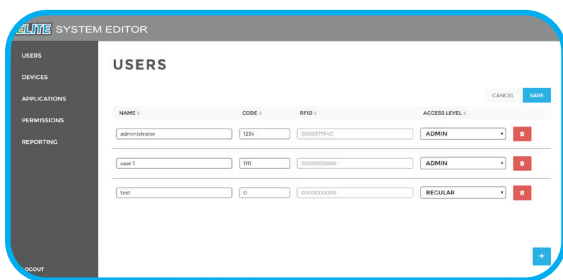
SYNC DATA

BIRKO ELITE controllers automatically sync all current data to the System Editor including users, applications, devices, permissions, chemicals, and reports.
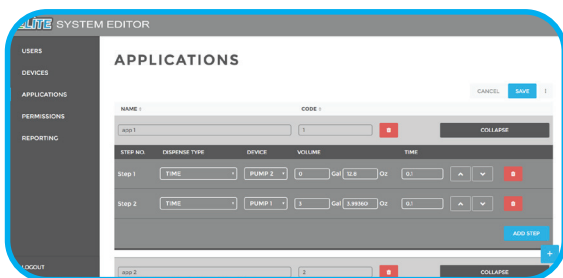
TRACK AND RECORD

Record who, what, when, and where for all users. Create accountability and keep track of where expensive chemical is going.
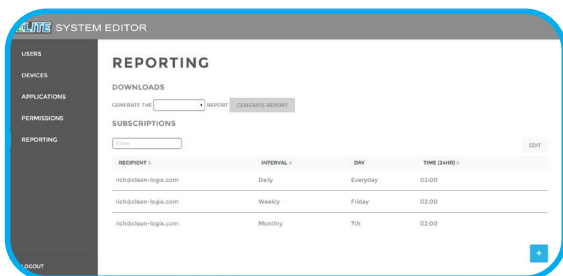
USER & PERMISSION MANAGEMENT

Add and edit users, login codes, view RFID card numbers, and manage permission levels for any and all configured application recipes.

APPLICATION RECIPES

Create application recipes step-by-step by selecting the type of dispense, volume quantity, run time, and even specify the order in which the chemicals will be dispensed.

REPORTING

Generate reports for any time period at the click of a mouse or subscribe via email and schedule reports to be emailed on a daily, weekly, or monthly basis automatically.

BIRKO LITE

OVERVIEW

The BIRKO LITE is a simple, entry-level time-based chemical dispenser for dispense applications. It restricts access to chemicals to only authorized individuals either with a 4 digit access code or HID® RFID card. It also records all user chemical consumption data into a simple .CSV file format that can be downloaded to a USB drive for review.

SIMPLE

The easy to use interface makes configuring the unit simple, allows for minimal training, and reduces the likelihood of failure in the field.

COST EFFECTIVE

Incredibly small footprint, measuring 11.5" x 9.5" x 5", requiring minimal space when mounted on a wall. Provides a variety of options to meet any plant's specific needs.

CONTROL

Only employees with an access code may operate the unit to dispense chemical. A separate login for administrators allows the unit to be configured.

FEATURES

RFID CARD ACCESS

Optional RFID card reader allows users to log into the system using new or pre-existing cards (HID brand cards only).

AUTHORIZED USER LOGIN

Access to controllers can be limited by requiring a 4-digit login for all employees. Login codes are custom to each individual user allowing all dispense activities to be recorded for review.
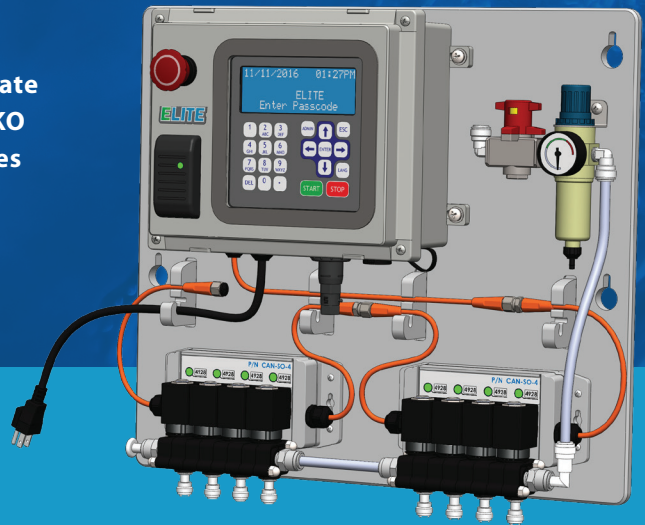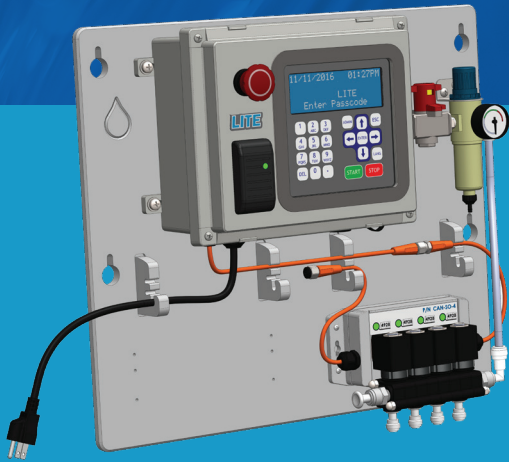
EASY TO USE

Simple and intuitive user operation makes configuring the unit easy for anyone by using the bright 5"x 2" text screen and easy to read, sealed membrane keypad.

DATA ACCESS

Dispense reports for all Users are recorded directly to the unit and can be downloaded to USB for review, providing greater accountability of chemical consumption. (USB port is sealed to IP68 when cap is installed).

OMNI CONFIGURATIONS

Everything you could need in an all-in-one, easy to mount package. The OMNI system is one of the best ways to integrate a Blend OnSite controller into a facility. Complete with BIRKO LITE or ELITE controller, pre-connected CAN solenoid devices for controlling up to 8 pumps, an air regulator, and wire routing features.

Measuring 18.5" x 21.5" x 7", the OMNI requires minimal space when mounted on a wall.

BIRKO ELITE

BIRKO LITE

DEVICES

OVERVIEW

Proprietary pump devices are comprised of a small circuit board and solenoid valve in a sealed enclosure to control compressed air to each valve and pump. Devices are built and designed with chemicals in mind with enclosures that are waterproof and corrosion resistant for longevity and durability. Additional devices can be added at any time by simply daisy-chaining them together for plug and play installation and replacement.

PLUG & PLAY

The orange, 4 pin CAN cable allows for quick and easy attachment to daisy chain additional Devices when necessary. Push-to-connect fittings for pumps and valves lock in quickly for an easy plumbing process.

CAN-SO-1

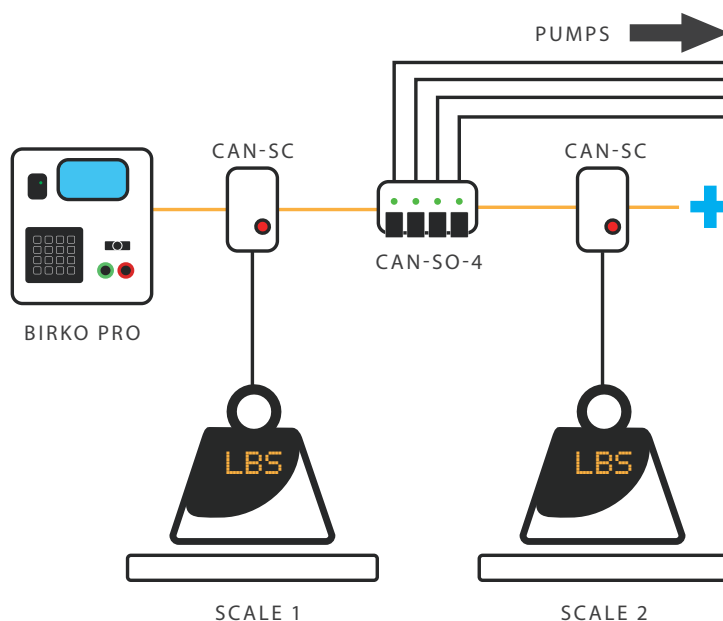Single 2-way valve device to outfit a single pump to any controller.
1.0 Cv

CAN-SO-4

Quadruple 3-way valve device to outfit up to 4 pumps at a time to any controller.
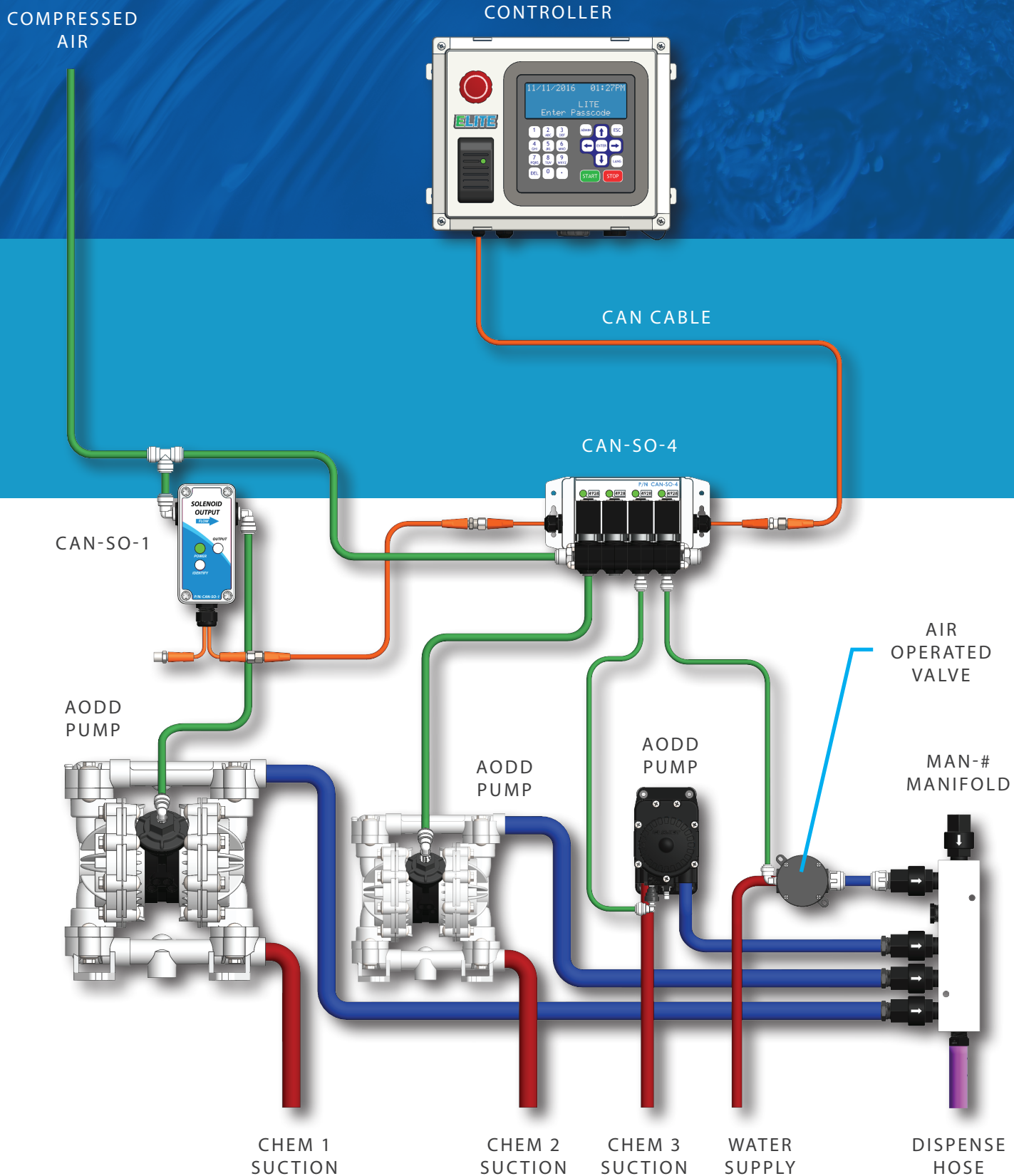0.6 Cv

CAN-SC

Scale Condition devices are used to add additional scales into a BIRKO PRO configuration for weight-based dispenses.

MULTI SCALE CONFIGURATION
Shown with PRO, CAN-SO-4, and (2) CAN-SC Devices

CAN-BUS ARCHITECTURE

COMPRESSED
AIR

CONTROLLER

11/11/2016   01:27PM
LITE
Enter Passcode

ELITE

CAN CABLE

CAN-SO-4

P/N CAN-SO-4

SOLENOID
OUTPUT

FLOW

OUTPUT

POWER

IDENTIFY

P/N CAN-SO-1

CAN-SO-1

AIR
OPERATED
VALVE

AODD
PUMP

AODD
PUMP

AODD
PUMP

MAN-#
MANIFOLD

CHEM 1
SUCTION

CHEM 2
SUCTION

CHEM 3
SUCTION

WATER
SUPPLY

DISPENSE
HOSE

DISPENSE TOWER KITS

OVERVIEW

Build your own system from individual components or save time and headaches with our Kit. Birko Dispense Tower Kits offer an all-in-one package that allows for easy installation. The customizable design is user friendly and has been engineered for durability and chemical resistance.

Systems are configured to house 6, 10, or 14 chemicals plus water via CAN-SO-4 Devices that are organized and stored behind an access panel for a clean, clutter free environment.

ALL-IN-ONE

CONTROLLER

Tower Kits can be equipped with any of the Birko controller models: LITE, ELITE or PRO.

DEVICES

CAN-SO Devices are connected and mounted inside the tower itself for a sleek, clutter free set-up.

DISPENSES

Fixed and Calibrated Time dispense methods can both be used, in addition to weight for PRO units.

INSTALLATION EXAMPLE
Pumps not included

TOWER DOORS

Doors can be added to any Kit to shield the dispense tray area. Optional sensors can be equipped with the door to act as a secondary emergency stop by preventing dispenses if the doors are left open.

FEATURES

Manifolds mounted on interior sides of tower for easy access and plumbing

Screen ergonomically positioned, just below eye level

E-Stop positioned on front of controller for easy accessibility

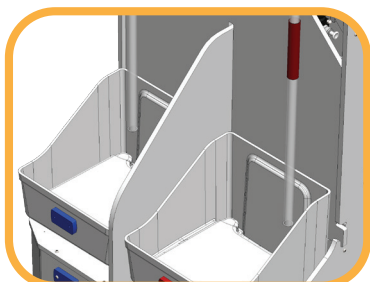RFID card reader mounted above keypad for accessibility and fast login

Controller mounted behind lockable 1/4" HDPE to ensure only authorized access

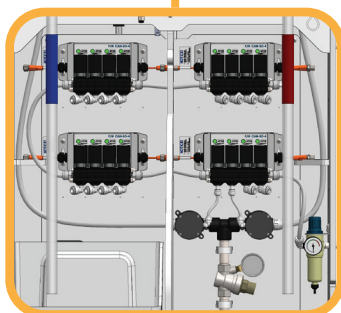Stainless steel keypad for ultimate chemical resistance

Engineered dispensing tower provides greater isolation between non-compatible chemistry (reducing risk)
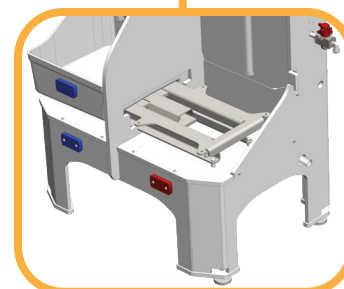
Large 3/4" PVC dispense hoses and vacuum breakers on each manifold ensure chemical is dispensed quickly and completely

Air and water pressure regulators and Solenoid Valve Devices for AODD pumps are mounted inside the tower for an easy installation and all-in-one design

Separate jug trays are keyed for left and right sides so they cannot accidentally be switched

Built-in Scale for weight-based dispenses (PRO models only)

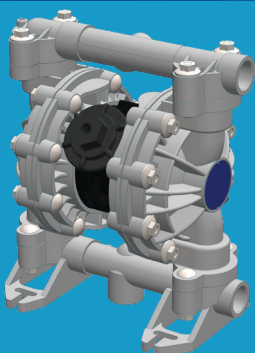Independent drains for each jug tray run to the sides of the tower for easy plumbing

ACCESSORIES

ALL THE THINGS

Get everything you need to effectively manage, maintain, and control all dispense procedures in your chemical room. Everything from pumps and pump boxes to suction lines and manual overrides. We got you covered.

SAFE AND SECURE

Keep your equipment contained and organized to increase efficiency, accountability and maintenance procedures. You went through all that work to get it up and running - now let's keep it that way.

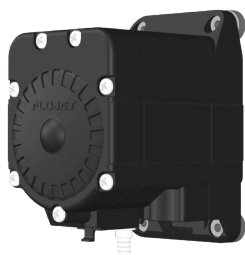### AODD PUMPS — 1/4", 1/2" and 1" AODD pumps from trusted brands like Graco and Iwaki.

Pump	Size	Material
Iwaki TC-X050	1/4"	PP
Iwaki TC-X050	1/4"	PVDF
Graco® Husky 205	1/4"	PP
Iwaki TC-X052	1/2"	PP

Pump	Size	Material
Iwaki TC-X052	1/2"	PVDF
Graco® Husky 515	1/2"	PP
Graco® Husky 515	1/2"	PVDF
Graco® Husky 1050	1"	PP

1/4" AODD PUMP

Flojet 1/4" air inlet. Available with Santonene, Kalrez, or Viton seal.

Santonene
Viton
Kalrez

1/4" PUMP WALL MOUNT BRACKET

Easy to mount wall bracket designed to simplify the installation of Flojet 1/4" AODD pumps.

SUCTION WAND

Pick-up assembly for pump operated or venturi systems to draw chemical concentrates or diluted chemical solutions directly from a drum, tote or holding tank. Available in 2 lengths: 36" or 54" - Includes 1/2" and 3/4" hose barbs and is available with fine or buttress cap threading.
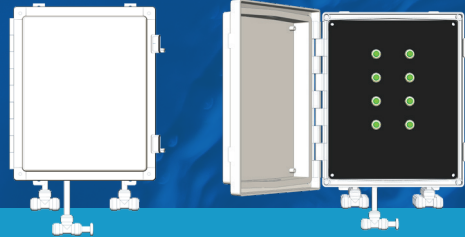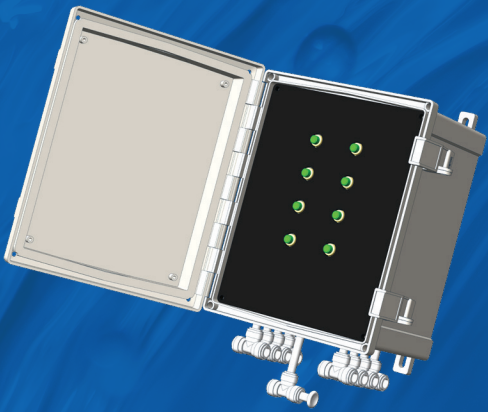
36"
54"

Also compatible with Foam-it's **LOCK-IT** Locking Cap.

1/4" QUICK FIT AIR INLET

Inlet for Flojet P56 pumps.

3/8" QUICK DISCONNECT
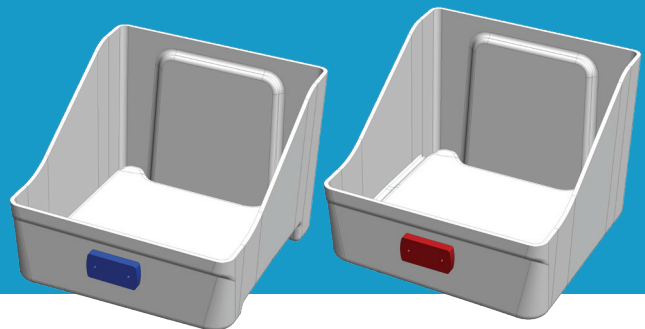
Inlet/outlet for Flojet pumps.

AIR BUTTON OVERRIDE BOX (ABB)

The Air Button Override Box (ABB) is an add-on feature for the controllers to dispense applications. The ABB provides Users the ability to override the system to manually initiate a pump. Up to 8 pumps can be connected at a time. Override buttons are contained and can be locked behind a hinged panel door when not in use for greater security against unauthorized dispenses.

WALL MOUNTED TRAYS

The perfect solution for holding chemical containers up to 5 gallons. The plastic material does not corrode or rust like stainless steel, making it a cleaner, more durable solution for chemical dispensing. All trays are sold in molded pairs with a sloped bottom and drain fitting to prevent leaking.
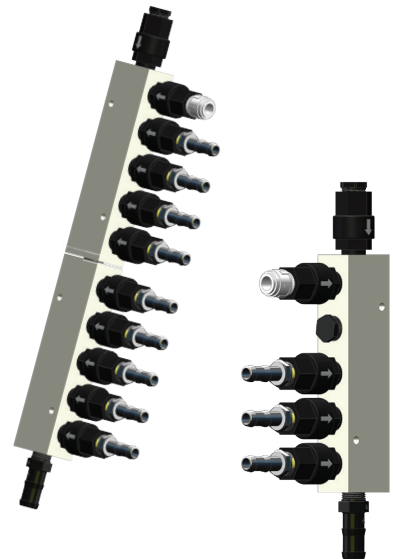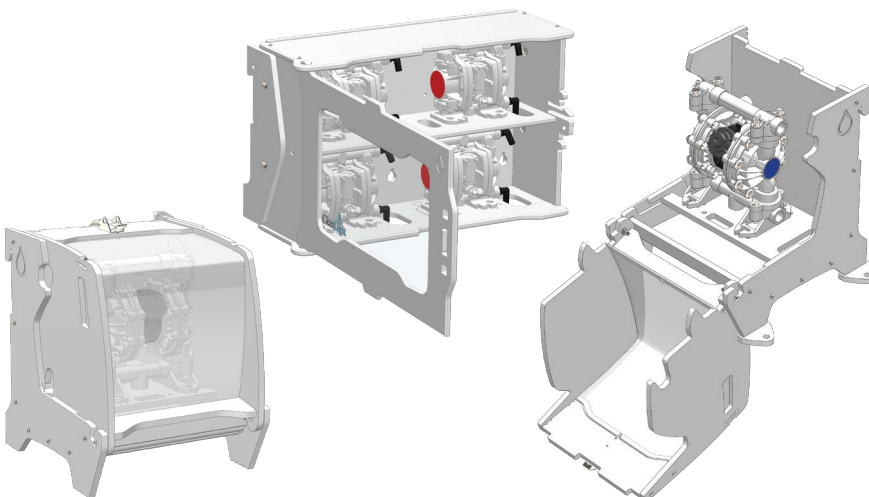
(Does not include hardware)

PUMP BOXES

PBX Pump Boxes allow facilities to mount and contain pumps for greater organization and equipment security. Units can be mounted via shelves, walls, or custom rails and can be used with a variety of 1/4", 1/2" and 1" AODD, as well as dosing pumps. We even offer combo kits to get it all grouped together!

1" (single)	16" Mounting Rail
1/2" (single)	43" Mounting Rail
1/4" (single)	78" Mounting Rail
1/4" x4 (cabinet)	
Dosing (cabinet)	

DISPENSE MANIFOLDS

Allows compatible chemicals to be dispensed through a single hose. Available in 10 sizes to accommodate as low as 1 or as many as 10 pumps at a time. Able to be mounted inside Tower Kits for a secure, clutter-free dispense area.

BIRKO®

your partner in food safety