AutoJet® TECHNOLOGIES

AutoJet Technologies Modular Spray System



Easy-to-use system offers controlled, precise automatic spraying

The AutoJet® Modular Spray System is a self-contained, modular spraying system that enhances the performance of automatic spray guns. Consisting of two basic components – an electrical control panel and an engineered valve package – the modular system provides the power of a fully integrated system at a reasonable price.

From small dots to a smooth, uniform coating, the AutoJet Modular Spray System provides exceptional spray gun control with dependable results. It's ideal for any low flow rate spray application such as:

- Moistening
- Lubricating
- Marking
- Disinfecting
- Coating

It's a good choice for R&D and pilot runs as well as full-scale production applications.

Modular construction offers maximum flexibility

Modular construction means we build your system to meet your operational needs. The AutoJet Modular Spray System is available either on an individual cart or as a wall-mount unit. The cart features a rugged, compact design for dependable, long-term operation and mobility.

A stainless steel pressure tank is also available with 5, 10, or optional 16 gallon (19, 38 or 60 liter) tank capacities to help eliminate pump maintenance.

The option of a NEMA Type 4x specially sealed stainless steel valve enclosure is available to protect the valve package from any damage.

The Modular Spray System integrates your air supply so that plant air is filtered with an oil/water coalessor. In addition, spray gun hook up kits are available for use with air-actuated or electrically-actuated spray guns in addition to air atomized or liquid-only spray nozzles.

Precise control outperforms PLCs

At the heart of the AutoJet Modular Spray System is the Model 2250 AutoJet Spray Controller powered by SprayLogic™ Software. The AutoJet Controller enables more precise regulation of spraying variables than is possible through simple PLCs. Using our unique SprayLogic Software, it reliably monitors and automatically adjusts spray variables including spray pattern, flow rate, drop size, liquid pressure, atomizing air pressure and fan air pressure. The controller can also monitor external conditions, such as temperature and humidity, that can critically affect the efficiency of your spraying system.

Controller functions include:

- Independent monitoring and control of multiple spray guns
- Easy programming of setpoint parameters
- Assistance with troubleshooting
- Programming to shut down on specified faults

A wide variety of control schemes provide unparalleled flexibility in spray applications. Digital and analog inputs allow the integration of many different sensors, including pressure, flow, triggers and temperature.

Faster response and precise control for better results and less waste

Specially designed circuitry in the AutoJet Spray Controller and a high-speed valve package permits an increase in the speed and accuracy of both pneumatic and electrically-actuated spray guns. For demanding spray applications, this accuracy can improve the overall quality of your process.

Reduce or eliminate overspray and misting

If misting and overspray are a concern, a pulsed spray, separated by delays that occur several times per second, can significantly reduce airborne mists when used in conjunction with a properly selected spray nozzle. In addition to improving the work environment, this can help save money by eliminating overspray.

Easy to set up, use and maintain

The AutoJet Modular Spray System features a multiline LCD display operator interface and keypad. All set-up operations are performed by means of the keypad and control parameters and are easily accessed by menus on the display.

In addition, SprayLogic Screen Editor Software enables users to modify controller menus and operating parameters on a personal computer and easily upload changes to the AutoJet Controller. Set-up and operation of the AutoJet Technologies System couldn't be easier.

Model 2250 AutoJet Spray Controller

Provides control of liquid, atomizing air, fan air and temperature pressures required by specific applications.



Keypad/LCD Display

The 15-key tactile keypad with smart keys can perform many tasks with a touch of a button. The control panel also has an LCD system display that lights up for easier visibility.

I/O

The controller can be controlled using switches, sensors, or programmable controllers – all from the same terminal connections.



Valve Package

Fully integrated valve package for optimal spray gun operation.



Valve Enclosure

Painted steel NEMA Type 12 or Type 4x stainless steel enclose the valve package.

Pressure Tank

Constructed of lightweight 304 stainless steel (316 optional) with 5, 10, or 16 gallon (19, 38 or 60 liter) tank capacities.*

**Standard–10 gallon tank*

Cart

Powder-coated steel with non-marring wheels that provide easy system portability.

The AutoJet Modular Spray System can be used with all Spraying Systems Co. spray guns

As a division of the world's leading manufacturer of spray nozzles, AutoJet Technologies systems are fully compatible with Spraying Systems Co. air-actuated and electrically-actuated spray guns. The air-actuated AutoJet Spray Guns are driven by a remote three-way solenoid that delivers compressed air to the single-acting, spring return cylinder in the gun itself. These economical, general-purpose spray guns have a maximum cycle speed of 1000 to 1800 cycles per minute with the Modular Spray System (intermittent duty).

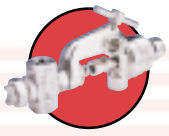
The electrically-actuated AutoJet Spray Guns utilize an internal 24V DC solenoid coil to directly drive a carbide ball tipped shut-off stem. They can achieve cycle speeds as high as 6,000 cycles per minute using the PulsaJet with the AutoJet Technologies System (intermittent duty). The fast response of these spray guns results in improved spraying precision and provides quieter operation.

Choose from air atomizing or liquid-only spray nozzles

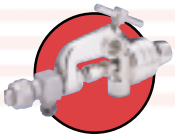
Several different types of air atomizing and liquid-only spray nozzles are available for use with the AutoJet Spray Guns. The air atomizing nozzles use compressed air along with a pressurized or siphoned liquid to produce a wide variety of different spray patterns. Additionally, they will produce a wide range of liquid drop sizes, from a very fine mist to relatively coarse drops. Liquids of many different viscosities can be used. Liquid-only spray nozzles use nozzle orifice geometry to precisely disperse and meter a pressurized liquid.

Spray Gun Model:	JAU	VAU	22	26	28
Actuation (Cylinder) Air Control	●	●	●		
Atomizing Air Control	●	●			●
Fan Air Control		●			
Liquid Pressure Control	●	●	●	●	●
Duty Cycle Control	●	●	●	●	●

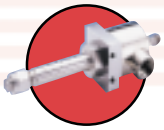
Spray Guns and Nozzles for the AutoJet Modular Spray System



Model 10535-1/4J
AutoJet Automatic Air Atomizing Nozzle



Model AA22AUH
AutoJet Automatic Spray Gun for Liquid-only Spray Nozzles



Model AA26AUH
Electric AutoJet Automatic Spray Gun for Liquid-only Spray Nozzles



Model AA28JJAU
Compact Electric AutoJet Spray Gun for Air Atomizing Spray Nozzles



Model 1/8JJAU or 1/4JAU
AutoJet Automatic Air Atomizing Nozzle



Model 1/8JJAUH or 1/4JAUH
AutoJet Automatic Spray Gun for Liquid-only Spray Nozzles



Model 1/8VAU
Variable Spray AutoJet Nozzle for Air Atomizing

For more information, request Spraying Systems Co. Bulletin No. 404.

Standard System Components:

The AutoJet Modular Spray System consists of two basic components – the electrical control panel and an engineered valve package.

Electrical Control Panel and Valve Package:

- Model 2250 AutoJet Spray Controller
  - 15-key tactile keypad with smart keys
  - 240 x 128 pixel LCD system display
  - SprayLogic Software (patent pending)
  - Two channel, independent spray gun control (Second channel is optional)
  - Easy programming of setpoint parameters
  - Controller check for problems and can be programmed to shut down on specified faults
  - Various control strategies can be programmed to user requirements
  - Cycle control provides a variety of spraying options
  - Displays fault messages to help troubleshoot the system
- Fully-integrated valve package
- Mounts to cart or wall
- Available to match the requirements of many different types of automatic spray guns

Optional System Components:

Cart:

- Powder-coated, welded tubular steel frame
- Non-marring, semi-pneumatic wheels

Pressure Tank Module:

- Choice of 5, 10, or 16 gallon (19, 38, or 60 liter)
- ASME code tank; 304SS (316SS optional) construction
- Choice of brass or stainless steel fittings
- Safety relief with manual override; 125 psi (8.62 bar)
- Double shut-off couplers on air inlet and liquid outlet
- Internal level switch senses low liquid level

Accessories:

- Electropolished 316SS pressure pot
- Spray gun hook-up kits: Hook-up kits include all necessary nickel-plated brass push-on fittings plus 12' (3.7 m) of nylon tubing for each air or liquid line. Kits are available for one to four spray guns. Request Data Sheet 38694 for more information.

Electrical Panel Specifications:

Power Supply Requirements:

- Voltage: 115 VAC +/- 15%
- Freq: 50-60 Hz
- Current: 5A maximum

Power for guns, sensors, solenoids (external):

- Voltage: 24VDC unregulated
- Current: 7A maximum

Main air supply:

- Inlet: 80psi (5.5 bar) minimum, 110psi (7.6 bar) maximum
- Size: 1/2" NPT (BSPT available)
- Flow: 100 scfm maximum at 20psi (1.4 bar)

Liquid flow rate range:

- .013 gpm to 1gpm (.05 to 3.79 lpm) (water - standard)

Ambient temperature range:

- 32˚F to 115˚F with fan (0˚C to 46˚C)

Humidity:

- 95% non-condensing

Protection:

- ESD/Emissions/Radiation

Control Panels:

- NEMA 12 (standard), NEMA 4x (optional)

Weights and Dimensions:

Weight:

- Cart: 40 lb (18.1 kg)
- Tank (10 gallon): 16 lb (7.3 kg)
- Electrical Panel: 35 lb (15.9 kg)
- One-gun Valve Package: 57 lb (25.9 kg)
- Two-gun Valve Package: 72 lb (32.7 kg)

Overall Dimensions	Width	Depth	Height
Spray Cart System	22" (559 mm)	23" (584 mm)	55" (1397 mm)
Electrical Panel	18" (457 mm)	9" (229 mm)	9" (229 mm)
Valve Panel	18" (457 mm)	8" (203 mm)	22" (559 mm)

AutoJet TECHNOLOGIES

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