



# JetVent™

SAFE, AUTOMATIC  
PRESSURIZED CONTAINMENT



# PROTECTING PEOPLE AND THEIR ENVIRONMENTS FROM EXPOSURE

Handling today's higher-potency active pharmaceutical ingredients (HPAPIs) presents ever-increasing regulatory concerns — especially within manufacturing-area isolators and lab areas, and for flexible GMP chambers where airflow, temperature, humidity and pressure differentials exist from room to room.

The JetVent™ system's precise fan speed delivers accurately controlled negative air pressure to ensure proper flow into flexible-wall isolators, while reducing the risk of worker exposure. JetVent ventilation systems can also deliver positive air pressure for applications requiring sterility, as well as facilitate relative-humidity control when containment is not necessary.

JetVent systems can operate adjacent to the contained compartment or in a separate room, and the fan is rated 250 m<sup>3</sup>/h — a much higher fan capacity than many competitors' systems.

ILC's JetVent systems are available in both single-fan/single-vent and dual-fan/double-vent configurations. Both offer the same high level of containment performance, and both can help to create an ideal isolation environment for fine-tuned powder weighing and processing, solubility testing, milling, granulation and more.

The single-fan/single-vent system satisfies most applications.

The dual-fan/double-vent system provides superior performance when application requirements include recirculation to reduce N<sub>2</sub> or compressed-air consumption, or when weak HVAC makes single-pass room-air use undesirable.

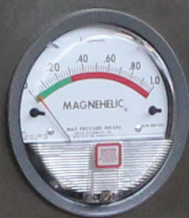
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Filter Dil. Pressure



FE Dil. Pressure





**PORTABLE AND COMPACT**

**FULLY AUTOMATED CONTROL  
WITH WARNING ALARMS**

**AIRFLOW**



**HIGH CONTAINMENT  
ISOLATOR SYSTEM  
WITH CONSTANT  
PRESSURE AND  
BREACH CONTROL**

**AIR OR NITROGEN  
ENVIRONMENT**

# JetVent: 7 ADVANTAGES, ONE SMART SOLUTION

## **1** *AUTOMATED SAFETY*

The JetVent system allows for easy and confident handling of expensive and dangerous powders. It detects even the most minute pressure change, immediately adjusting the gradient back to the set point. This means the product will remain contained, with no manual adjustments of the vent speed. Operator distraction is no longer your biggest worry.

## **2** *OPTIMUM ENCLOSURE OPERATION*

JetVent units can introduce and maintain supply gas or compressed air at a set point of -15 Pa, so enclosures remain ergonomic and easy to work with. Competitors' exhaust-only systems can create uneven or unsustainable pressures of -25 Pa to -50 Pa.

## **3** *AUTOMATIC N<sub>2</sub> INERTING*

The JetVent system can be used with N<sub>2</sub> for compounds that are oxygen sensitive or explosive. It can use fresh N<sub>2</sub> or recirculate it to save costs. It can also control humidity and reduce the chance of explosions.



## 4 SENSITIVITY

This system allows for sensitive powder weighing because it is able to cancel the influence of the pressure on the scale.

## 5 ADAPTABLE, EASY TO MODIFY

JetVent systems can be connected to both existing and new flexible isolators throughout your facility.

In addition, the frames can be retrofitted to accommodate push-push 130 m<sup>3</sup>/hr contaminant filters, permitting upgrade for future needs. They can also be modified for exhaust and supply enclosure connections.

## 6 READY FOR EXPLOSIVE ENVIRONMENTS

All JetVent systems can be specified with a choice of 480V/3-phase, 230V/single-phase or — if required — 120V/single-phase power supply to meet ATEX directive 2014/34/EU.





## 7 *ERGONOMIC BENEFIT*

Operator movement is not restricted like it is with a hard-wall isolator or even a laminar flow hood with a sash. The flexible isolator is supported by stretch cords that allow a generous range of motion.

The typical problem of “reach” in an isolator is minimized. The flexible wall moves as the operator extends his or her reach into the isolator, making tasks easier, with less stress. This benefit can also facilitate a design with more depth to meet process requirements.

The flexible isolator allows for a wide range of operator heights, so multiple users can comfortably use the same equipment. With the stretch-cord system, the glove sleeves adjust to the operator size.

The unique glove and gauntlet design combines typical glove materials with lightweight ArmorFlex® film gauntlets or glove sleeves. The operator can move easily and comfortably with this design.

ArmorFlex film used for the flexible isolators has high strength and eliminates the risk of failure even when operators are moving to the extreme positions in the isolator.

ArmorFlex® is a trademark of ILC Dover.

## TALK WITH OUR EXPERTS

At ILC Dover, we look forward to collaborating with you to develop systems tailored to your exact needs. To speak with one of our experts, simply call **+1.302.335.3911** or visit **[www.ilcdover.com](http://www.ilcdover.com)**.



# BEYOND BOUNDARIES™

Innovators at our core, we develop engineered solutions for our customers' complex problems. Recognized globally for our flexible containment solutions, ILC Dover serves customers in a diverse range of industries, including pharmaceutical and biopharmaceutical manufacturing, personal care, food and beverage, chemical, aerospace, healthcare and government agencies. At ILC Dover, quality is a culture, not a measurement. Our customers will tell you that we cater to their every need and that we're highly innovative, responsive, dedicated and competitive. We have been innovating since 1947. ILC Dover's visionary solutions improve efficiency, safeguard workers and product, and prevent disasters — proof that we are on the front line of business excellence.

**Engineering evolution beyond boundaries.**



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