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Pump Up The Volume

The History And Advantages Of HVLP Sprayers

The High-Volume Low-Pressure (HVLP) sprayer has revolutionized the commercial spray industry. Today, it is preferred for use in various applications: automotive, decorative, marine, architectural coating, furniture finishing, scenic painting, and cosmetics. While high pressure guns are still widely used for large-scale projects, the versatility of the HVLP sprayer has allowed sales to gain momentum since the early 1990's.

Prior to its conception, sprayers had a tendency to literally miss their mark. Inordinately large amounts of overspray from high pressure guns resulted in lost time on the job, more money out of pocket from loss of materials, and a detrimental impact on the environment. A more effective method of application was needed.

HVLP guns were first developed utilizing the same mechanism as an electric carpet cleaner running backward. Kirby manufactured a vacuum in the 1930's that included a spray gun attachment. Crude but effective, it was on too small a scale to benefit the commercial industry. But the technology continued to develop.



James Kirby



Kirby Vacuum, circa 1930's

Volumaire, a French company, developed the first stand-alone gun, not attached to a vacuum cleaner. It was very low-powered and consisted of a small, box-mounted vacuum motor, a hose and a crudely designed metal spray gun.



Early Volumaire model

Apollo Sprayers developed the first American compressed air HVLP spray guns in the late 1980's, but the market was small. They were also met with resistance, especially in the automotive industry, as these sprayers tended to leave an undesirable "orange peel effect". The turbine compressors powering the sprayers heated the paint too high causing it to dry too quickly, sometimes even before contacting the intended surface. Further development was needed, and soon Apollo produced sprayers designed to work with either air or turbine compressors, which seemed to solve this issue.

During this time, governments, particularly in Los Angeles, were becoming increasingly concerned with the effect of pollutants on the environment. Understanding the need for change, but not wishing to cause too much negative impact on the industrial paint industry, they sought a viable alternative to polluting the air with paint overspray.

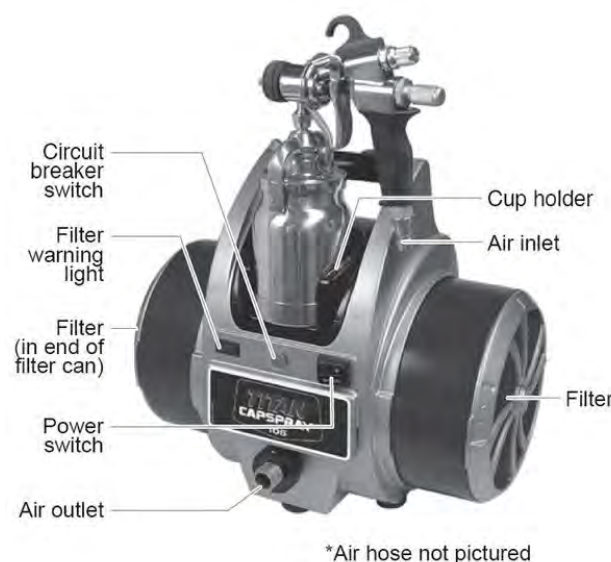


In 1984, Apollo submitted their laboratory tests to South Coast Air Quality Management District (SCAQMD) in Los Angeles, and proved that their “Turbo Spray System” demonstrated more than 80% transfer efficiency, thereby reducing the pollutants distributed in the air. This offered an alternative to the industrial paint industry, and led to enacting 1987’s Rule 1151 in Southern California. This law started the regulation of air contamination from industrial paint components. High transfer guns (+65% transfer efficiency) were necessary to help reduce smog. SCAQMD then coined the acronym, “HVLP” (for High-Volume, Low Pressure) to indicate these types of sprayers.

When the trigger on an HVLP spray gun is pressed, the paint is released into the air stream, atomized, and shot through the nozzle at the desired pressure and fan size. The result of a properly-set HVLP gun is a soft, even spray with virtually no wasted paint from overspray, and need for fewer touch-ups. HVLP sprayers can actually store paint in separate canisters for a period of time, whereas airless guns and hoses need to be cleaned out completely after each use.

Today, through further advancements, HVLP sprayers have replaced nearly all high pressure sprayers in the industry. Touted for their versatility and longevity, HVLP spray guns apply more material to their target instead of releasing them into the air thereby making them not only more environmentally sound, but also more cost efficient because less product is lost in the process.

Our partner TITAN is the industry leader in HVLP sprayers. This month we feature TITAN’s Capspray™ Series for its exceptional power, control, and versatility. Ask your CIS representative about adding a TITAN HVLP sprayer to your family of sprayers today!





CAPSPRAY SERIES

WHEN YOU NEED THE BEST

Where agility and finish combine to unleash absolute consistency

WIELD AN INDUSTRY LEGEND

Featuring the Capspray 115 HVLP

- Revolutionary 6-stage portable turbine spraying system
- Only turbine to ever achieve full HVLP capability
- Most powerful HVLP atomization in the industry

SPRAY SMARTER

Featuring Intelligent Design

- Built-in tool box for needles, nozzles, check valve, and nozzle wrench
- Lightweight, durable design deliver versatility and toughness
- Convenient dirty filter warning light

GET THE MAXUM ADVANTAGE

Maximize control and finish with the legendary best-in-class Maxum HVLP guns



POWERED BY CLEAN AIR

Featuring Dual Air Filters

- Choose from 3, 4, 5, or 6-stage turbine
- Quick-change dual air filtration system requires no tools
- Automotive quality atomizing air filter delivers clean, consistent air flow
- Dual filtering system for both atomizing and cooling air



TURBINE-POWERED PRECISION

The Capspray series is the closest you'll come to a turbine-powered paint brush. Featuring the only 6-stage turbine on the market, this series is designed to combine next-level power and extreme agility with the ability to move freely throughout the job site. Here's what makes the Capspray an asset in tackling cabinets, trim, furniture, metal, and more:

- Up to 90% transfer efficiencies
- Dual air filters including pre-filters on both sides of the unit
- Built-in tool box for needles, nozzles, check valve, and nozzle wrench
- A range of options for you to scale up to your needs
- The only turbine to ever achieve full HVLP capability

SPECIFICATIONS

PRODUCT NAME	<u>Capspray 75</u>
TURBINE	3 Stage
MAX AIR PRESSURE	7.5 PSI
PART NUMBER - WITH MAXUM II	0524031
PRODUCT NAME	<u>Capspray 95</u>
TURBINE	4 Stage
MAX AIR PRESSURE	9.5 PSI
PART NUMBER - WITH MAXUM II	0524032
PRODUCT NAME	<u>Capspray 105</u>
TURBINE	5 Stage
MAX AIR PRESSURE	10.5 PSI
PART NUMBER - WITH MAXUM ELITE	0524033
PART NUMBER - WITH MAXUM II	0524098
PRODUCT NAME	<u>Capspray 115</u>
TURBINE	6 Stage
MAX AIR PRESSURE	11.5 PSI

To see the Capspray™ in action, click here: [Titan® Capspray™ 95/105/115 HVLP Sprayer](#)

Get rewarded for purchasing at [Thor Rewards](#)

For more information, visit titantool.com



COAST INDUSTRIAL SYSTEMS, INC.

2223 Verus Street • San Diego, California 92154



COMPANY OVERVIEW

Coast Industrial Systems, Inc. is the #1 supplier of painting and coating application equipment to the marine and manufacturing industries, and is proud to serve both San Diego and Mexico since 1986.

Coast Industrial Systems, Inc. has always placed the customer first, and strives for business excellence in all ways. Our friendly sales and customer service staff are knowledgeable, experienced and qualified to help meet your painting and coating application requirements, and to exceed your expectations.

**Graco Top 20 High-Protective Coatings & Foam Distributor
Award Winner 2010-2018**

