



First choice when
quality counts.™

PRO 5500wb™ Automatic Electrostatic Air Spray Gun

- **Designed for conductive waterborne fluids**
- **Modular design - simple to install and easy to maintain**
- **Unique fluid connection - makes removal quick and easy**



237-603

**Automated
electrostatic
air spray gun
designed
to handle
waterborne
coatings**

The PRO 5500wb is an automatic electrostatic air spray gun designed to handle waterborne coatings. It may be used with reciprocators, robotic positioners or fixed mounting. It is adaptable for replacement of virtually any automatic air spray device.

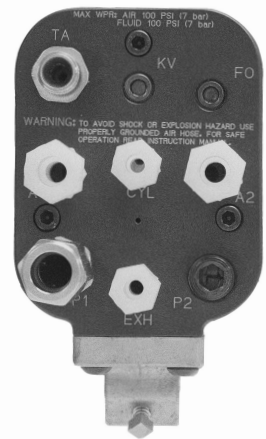
Self-Contained, Self-Generating Power Source
Graco's patented PRO Power™ technology employs an internal air-driven turbine to supply the electrostatic charge. No external electrical cables are required, simplifying installation. The PRO 5500wb is approved by Factory Mutual for use in electrostatic waterborne spray applications.

Modular Design for Flexibility
To simplify installation and maintenance, the PRO 5500wb gun assembly consists of four components: the gun, gun manifold, gun shroud and mounting bracket.

The gun manifold is attached to a universal reciprocator mount and is easily fitted to virtually any automatic finishing machine. The gun can easily be mounted to most common robotic finishing applications. Air hoses and fluid lines are connected to the manifold so they do not need to be disconnected when removing the gun. By loosening four screws, the gun can be separated from the manifold for quick maintenance or replacement.

The outer plastic shroud covers and protects the gun, reducing wrapback and shielding working parts. The shroud is easily removed if necessary.

Fan air and atomizing air are independently valved for finer control. Gun actuation requires only a single control signal, which provides proper fluid to air timing. Voltage is fixed at 60kV for maximum performance and component life.



Typical Fluids Handled

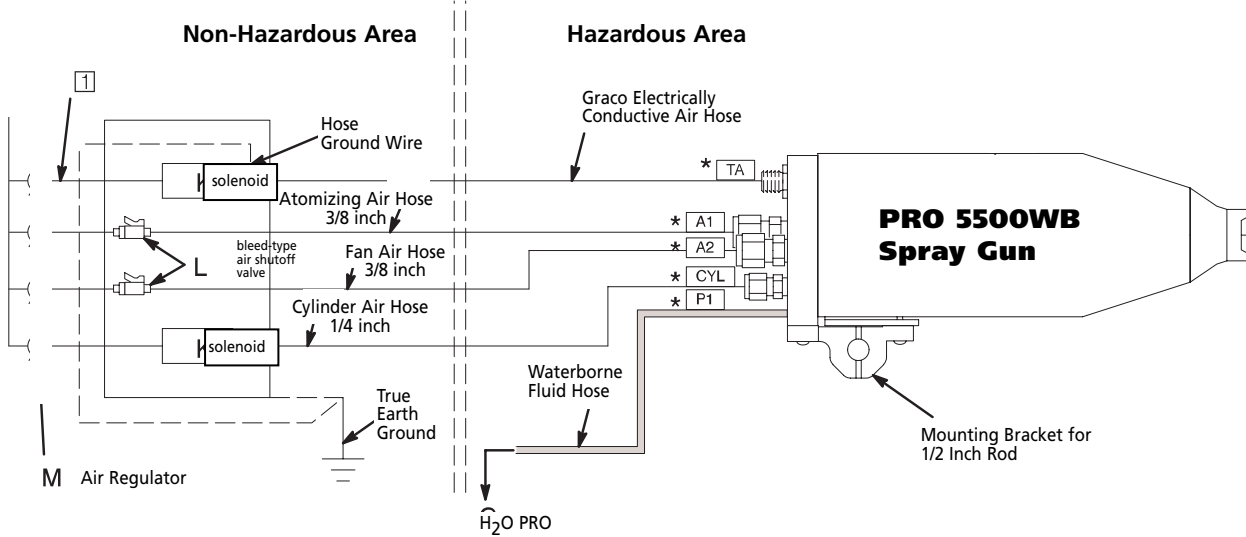
- waterborne epoxy primers
- waterborne topcoats
- waterborne industrial finishes

Typical Applications

- automotive components finishing
- fabricated metal finishing
- automotive, truck, or bus finishing
- mold-release spray
- metal office furniture and cabinets finishing

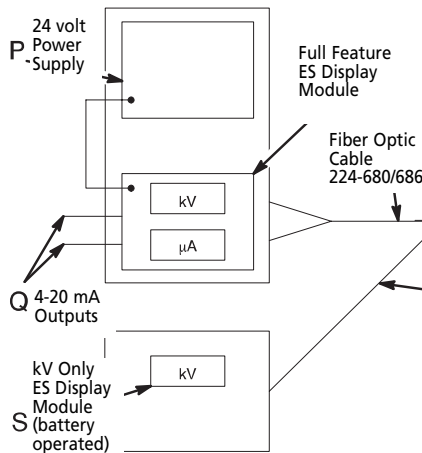
COMPONENTS

Typical Installation - Basic System



System Options - Spraying Voltage and Display Module

Option A Non-Hazardous Area

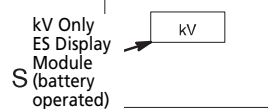


Hazardous Area

Option A: Full kV and microamp display which can be integrated into control system.

Option B: Simple to install, battery-powered kV display.

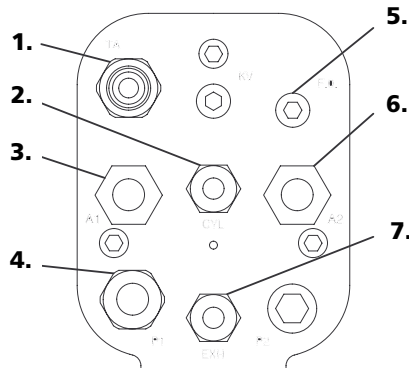
Option B



1 The turbine air supply must be interlocked with the spray booth ventilation fans and the voltage isolation system.

2 A maximum of two splices with a total of 108 feet (32.94 m) of cable can be used.

Gun Controls



- 1. Turbine Air Inlet
- 2. Cylinder Air Inlet
- 3. Atomization Air Inlet
- 4. Fluid Supply Inlet
- 5. Fiber Optic Fitting (optional)
- 6. Fan Air Inlet Fitting
- 7. Shroud Exhaust Outlet Fitting

Air and Fluid Line Accessories

- 106-148 Air Filter & Moisture Separator**
Max. working pressure: 250 psi (1.75 MPa, 17.5 bar). For cleaning and drying air in air spray system. 20 micron element, 5 oz. bowl capacity, 3/8 npt(f) inlet and outlet.
- 206-199 High Volume Air Regulator**
Regulated pressure: 0-125 psi (0-0.9 MPa, 0-9 bar). Steel pressure gauge: 200 psi (1.4 MPa, 14 bar). For regulating air to the gun. 1/2 npt(f) inlet and outlet.
- 107-141 Bleed-type Master Air Valve**
Max. working pressure: 300 psi (2.1 MPa, 21 bar). Relieves air trapped in the air line between the paint pump air motor and this valve when closed. 3/4 npt.
- 202-271 Filter (Air or Fluid)**
Max. working pressure: 750 psi (5.2 MPa, 52 bar). With 60 mesh (250 micron) element. Inlet 3/8 npt(f). Outlet 3/8 npt(f).

Fluid Supply Hose

Max. working pressure: 100 psi (0.7 MPa, 7 bar). Teflon®.
ID: 0.250 in. (6.35 mm).

For use with generic voltage block system.

| Part No. | Length |
|----------------|---------------|
| 237-545 | 25 ft. (8 m) |
| 237-546 | 50 ft. (15 m) |

For use with Graco Fence Isolation system.

| | |
|----------------|---------------|
| 237-548 | 25 ft. (8 m) |
| 237-550 | 50 ft. (15 m) |

For use with Graco's H2O PRO Voltage Block.

| | |
|----------------|---------------|
| 237-920 | 25 ft. (8 m) |
| 237-921 | 36 ft. (11 m) |
| 237-922 | 50 ft. (15 m) |

Fluid Drain Valve

Max. working pressure: 500 psi (3.5 MPa, 35 bar).
For relieving fluid line pressure.

- 208-630** 1/2 npt(m) x 3/8 npt(f). Teflon and CS.
For non-corrosive fluids.
- 237-534** 3/8 npt(m) x 3/8 npt(f). Teflon and SST.
For non-corrosive fluids.

Gun Control and Monitoring Accessories

- 189-762 ES Display Module**
Receives fiber optic transmission from the gun and displays the gun's output voltage. Battery operated.
- 236-917 Display Module with 25 Ft. Fiber Optic Cable**
- 236-919 Display Module with 50 Ft. Fiber Optic Cable**
- 236-921 Display Module with 75 Ft. Fiber Optic Cable**
- 224-117 E/S Display Module**
Receives fiber optic transmission from the PRO 5500wb gun and displays the gun's output voltage and current. Mounts in a standard 19 in. DIN rack. Refer to Instruction Manual 308-265.
- 235-301 Power Supply, 24 volt**
For use with Part No. 224-117
Provides 24 volt power for up to 23 ES Display Modules.

Fiber Optic Cable Assembly

Fiber Optic Cable Assembly

For connection between gun manifold and display module or between bulkhead connector and display module.

Fiber Optic Cable Extender

For connection between gun manifold and bulkhead connector.

| Assembly | | Extender |
|----------------|------------------|----------------|
| Part No. | Length | Part No. |
| 224-681 | 15 ft. (5 m) | 224-671 |
| 224-682 | 25 ft. (8 m) | 224-672 |
| 224-684 | 50 ft. (15 m) | 224-674 |
| 224-685 | 75 ft. (23 m) | 224-675 |
| 224-686 | 100 ft. (30.5 m) | 224-676 |

189-870 Connector

For connection between two fiber optic cables.

Miscellaneous Accessories

- 222-011 Grounding Clamp and Wire**
12 gauge. Length: 25 ft. (7.6 m) wire.
- 218-979 Megohmmeter**
500 volt output; 0.01-2000 megohms.
Not for use in hazardous areas.

Technical Specifications

| | |
|--|--------------------------------|
| Maximum fluid pressure | 100 psi (0.7 MPa, 7 bar) |
| Air pressure operating range | 0-100 psi (0-0.7 MPa, 0-7 bar) |
| Maximum voltage | 60 kV |
| Turbine air inlet | 1/4 npsm(m), left hand |
| Length | 12-1/4 in. (31.1 cm) |
| Mounting distance | |
| mounting rod to nozzle tip | 9-1/3 in. (23.6 cm) |
| fits mounting rod | 1/2 in. (12.7 mm) |
| Weight (including gun, manifold and mounting bracket) | 3.57 lbs (1.62 kg) |
| Instruction manual (gun) | 308-496 |
| Instruction manual (E/S display module) | 308-265 |
| Instruction manual (Voltage Isolation System) | 308-504 |

Ordering Information

| | |
|----------------|---|
| 237-603 | PRO 5500wb Automatic Electrostatic Air Spray Gun Includes spray gun, manifold, shroud and mount. |
| 236-824 | PRO 5500wb Automatic Electrostatic Air Spray Gun Replacement gun. Includes spray gun and shroud. |
| 238-091 | PRO 5500wb Automatic Electrostatic Air Spray Gun with Regulator Includes spray gun, regulator manifold, shroud and mount. |
| 238-147 | Regulator Kit for PRO 5500 Upgrades PRO 5500 electrostatic gun to include regulator. Can only be used with 237-603. |

Misc. System Components

Electrically Conductive Air Supply Hose Available (required for use)

| Red Hose* | Hose Length |
|----------------|------------------|
| 235-069 | 15 ft. (4.6 m) |
| 235-070 | 25 ft. (7.6 m) |
| 235-071 | 36 ft. (11 m) |
| 235-072 | 50 ft. (15.2 m) |
| 235-073 | 75 ft. (23 m) |
| 235-074 | 100 ft. (30.5 m) |

*Conductive SST wire braid for grounding. Polyurethane tube and cover.

185-493 Air Hose Adaptor Nipple

For connecting two or more electrically conductive gun air supply hoses. 1/4 npt x 1/4 npsm (left hand thread).

Voltage Isolation

237-928 H₂O PRO Continuous Flow System

Batch voltage block system to supply waterborne fluid to either one PRO 3500wb manual gun or one to four PRO 5500wb automatic guns. Guns must be ordered separately.

237-927 H₂O PRO Batch System

Batch voltage block system to supply waterborne fluid to either one PRO 3500wb manual gun or one PRO 5500wb automatic gun. Gun must be ordered separately.

236-152 Pressure Pot with Agitator

5 gal. (19 l). SST.

236-153 Pressure Pot with Agitator

10 gal. (38 l). SST.

236-154 Pressure Pot with Agitator

15 gal. (57 l). SST.

Bracket Assemblies for

Mounting PRO 5500 Spray Gun to . . .

| | |
|----------------|-------------------------|
| 237-762 | GMF P100 Robot |
| 237-763 | GMF P150 Robot |
| 237-764 | ABB Tralfa Robot |