



First choice when
quality counts.™

PRO 4500sc™

85 kV Electrostatic Spray Gun

**Manual
electrostatic
air spray gun
with selective
voltage control**

- **85 kV PRO power electrostatics - no external power supply needed**
- **Simple to install and easy to use**
- **Suitable for use in areas where arcing power sources are prohibited**



Graco's PRO 4500sc combines the convenience of PRO power with the versatility of selective voltage control. All essential electrostatic controls are located at the back of the gun. By simply flipping a switch, the operator can deliver up to 85 kv of electrostatic charge or switch to a preset lower voltage.

Like all Graco PRO guns, the PRO 4500sc uses a patented internal power cartridge to generate its own electrostatic charge. No external power supplies or cables are required.

If you need the high transfer efficiency of manual electrostatic but require the versatility of selective voltage, the PRO 4500sc makes perfect sense for your finishing line.

Typical Industrial Applications

- Automotive, truck and bus assemblies
- Automotive, truck and bus components
- Private, commercial and military aircraft
- Metal furniture and fixtures
- Fabricated metal manufacturing

Typical Fluids Handled

- Medium-to-high solids solventborne primers
- Single and plural component topcoats
- Alkyd, enamel, polyurethane and epoxy-based paints

COMPONENTS

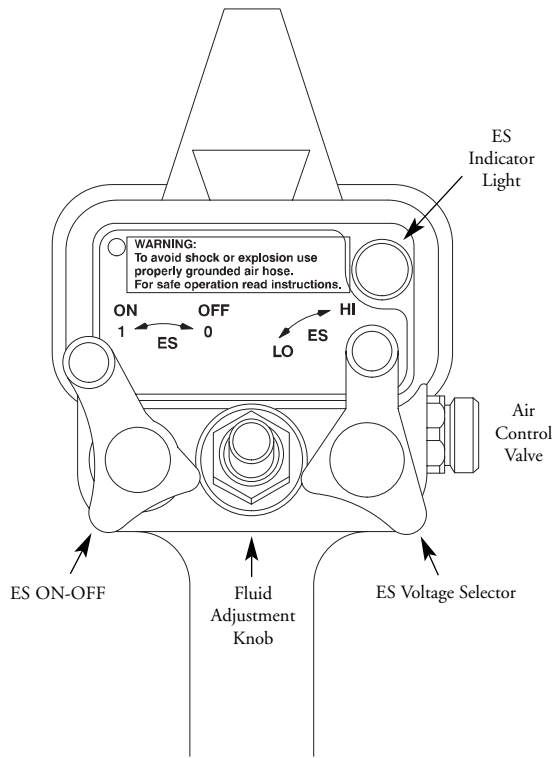
Technical Specifications

Voltage output range	0-85 kV
Short circuit current	120 microamps
Selectable voltage range	40-80 kV DC
Maximum working pressure	100 psi (700 kPa, 7 bar)
Operating range for:	
Air pressure	0-100 psi (0-700 kPa, 0-7 bar)
Fluid pressure	0-100 psi (0-700 kPa, 0-7 bar)
Air inlet	1/4 npsm(m) (L.H.)
Fluid inlet	3/8 npsm(m)
Gun length	11.1 in. (283 mm)
Gun weight	34.3 oz. (974 g)
Wetted parts	SST, nylon, nylon, acetal, UHMWPE, ceramic, epoxy, fluoroelastomer, PEEK, polyethylene
Paint resistivity range	3 megohm • cm
Sound pressure level*	
at 40 psi (2.8 bar)	91.0 Db(A)
at 100 psi (7 bar)	100.5 Db(A)
Sound power level**	
at 40 psi (2.8 bar)	90.7 Db(A)
at 100 psi (7 bar)	105.3 Db(A)
Instruction manual	308-131

* Sound pressure was measured per Cagi Pneurop, 1969

** Sound power was measured per ISO-3744, 1981

Back View of Gun



Gun Accessories

Nozzles Available	Needle Size
191-831	0.040 in. (1.0 mm)
191-832	0.047 in. (1.2 mm)
191-833	0.055 in. (1.5 mm)
191-834	0.070 in. (1.8 mm)
190-933	Electrode Needle (all nozzles)

Round Pattern Kits

Consists of fluid tip, diffuser and air cap.

222-329	4-6 in. diameter (102-152 mm)
222-330	8-10 in. diameter (203-254 mm)

Air Caps

193-033	Round End 14-17 in. (356-432 mm) at 12 in. (305 mm). Fine atomization. Medium production.
177-039	Tapered End 14-16 in. (356-406 mm) at 12 in. (305 mm). Medium to high production
180-739	Round End 15-17 in. (381-432 mm) at 12 in. (305 mm). Good atomization. Medium to high production.

110-090 Snap Ring Pliers

For removing the E/S on/off valve retaining ring.

180-209 Gun Cover (FM approved)

218-374 Box of 10 Gun Covers

223-976 E/S Always On Valve Kit (FM approved)

Converts the ES on/off valve to a constant On setting. A ball valve is included for complete air shut-off at the gun.

224-720 Push/Pull Adjustment Valve (FM approved)

Pattern adjustment valve that allows quick adjustment of the pattern width between two adjustable settings.

224-884 Four-Finger Trigger Conversion Kit (FM approved)

Allows the conversion of a standard gun for use with a four-finger trigger. Contains new trigger and fluid inlet tube bracket and fittings.

235-300 Gun Hanging Bracket

Miscellaneous Accessories

222-011 Grounding Clamp and Wire
12 ga, 25 ft. (7.5 m) wire

218-979 Megohmmeter
500 volt output; 0.01-2000 megohms.
Not for use in Hazardous Areas.

Paint Resistivity Meter (used together)

722-886 Meter

722-860 Paint Probe

236-003 High Voltage Probe and Meter
Complete assembly includes high voltage probe, meter and ground wire.

Safety Warning Signs

Available at no charge from Graco. Must be ordered separately.

180-060 Warning message in English

180-061 Warning message in French

180-062 Warning message in German

180-063 Warning message in Spanish

Fluid Line Accessories

Fluid Hose Assemblies, Nylon (FM approved)

Max. working pressure: 225 psi (1.4 MPa, 14 bar).

ID: 3/8 npsm(fbe).

215-637 25 ft. (8 m)

215-638 50 ft. (15 m)

Fluid Hose Assemblies, Nylon (FM approved)

Max. working pressure: 500 psi (3.5 MPa, 35 bar).

ID: 3/8 npsm(fbe).

216-076 25 ft. (8 m)

216-077 50 ft. (15 m)

216-078 75 ft. (23 m)

216-079 100 ft. (30 m)

216-080 150 ft. (46 m)

Fluid Shutoff/Drain Valve

Maximum working pressure: 500 psi (3.5 MPa, 35 bar).

For turning fluid off or on to the gun and for relieving fluid line pressure at the pump.

208-630 1/2 npt(m) x 3/8 npt(f), CS and Teflon, for non-corrosive fluids.

235-334 3/8 npt(m) x 3/8 npt(f), SST and Teflon, for corrosive fluids.

Air & Fluid Line Accessories

112-534 Air Line Quick Disconnect & Swivel

Includes a quick disconnect coupling insert, which replaces air inlet fitting (185-105), and a swivel shut-off coupling body with left-hand thread which connects to the conductive air hose.

224-633 Air Seal Repair Kit

105-749 Cleaning Brush

224-634 Fluid Seal Repair Kit

185-493 Air Hose Adaptor Nipple

This adaptor allows for the connection of multiple air hose as needed for the special grounded PRO air hose. 1/4 npsm (L.H.) x 1/4 npsm.

236-129 Air Swivel Fitting

Max. working pressure: 100 psi (700 kPa, 7 bar). Replaces gun air inlet fitting (185-105). 1/4 npsm(m) (L.H.).

189-191 Extended Air Inlet Fitting

Replaces gun air inlet (185-105) to provide an extended handle grip area.

206-199 High Volume Air Regulator

Regulated pressure range: 0-125 psi (0-0.9 MPa, 0-9 bar). Steel pressure gauge: 200 psi (1.4 MPa, 14 bar). Inlet and outlet: 1/2 npt(f).

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. Inlet and outlet: 3/8 npt(f).

224-754 Air Shut-off Valve

Max. working pressure: 150 psi (1.0 MPa, 10 bar). For turning air to gun off or on. 1/4 npsm(m) x 1/4 npsm(f) (L.H.).

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 Paint)

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(m).

Ordering Information

224-200 PRO 4500sc Gun

with 0.055 in. (1.5 mm) spray nozzle and air cap (177-033).

224-400 PRO 4500sc Gun, 4-Finger Trigger

Same as 224-200 except with 4-finger trigger.

Air Hose Available

(specially grounded with L.H. fitting)

Maximum working pressure: 100 psi (7 bar).

ID: 0.315 in. (8 mm). 1/4 npsm(f) x 1/4 npsm(f) (L.H.).

Length	Grey	Red
6 ft. (1.8 m)	223-068	235-068
15 ft. (4.6 m)	223-069	235-069
25 ft. (7.6 m)	223-070	235-070
36 ft. (11 m)	223-071	235-071
50 ft. (15.2 m)	223-072	235-072
75 ft. (23 m)	223-073	235-073
100 ft. (30.5 m)	223-074	235-074

Grey Hose:

Extra flexibility. Modified semi-conductive polyamide core, urethane cover.

Red Hose:

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

Available Gun Systems

224-637 Gun System

Includes: PRO 4500sc E/S spray gun, 36 ft. (11 m) conductive air hose, air regulator with gauge, air filter, hex nipple, bushing, and hex red nipple.

224-638 Gun System

Includes: PRO 4500sc E/S spray gun, 50 ft. (15 m) conductive air hose, air regulator with gauge, air filter, hex nipple, bushing, and hex red nipple.

224-640 Gun System

Includes: PRO 4500sc E/S spray gun, 25 ft. (7.6 m) conductive air hose, air regulator with gauge, air filter, hex nipple, bushing, and hex red nipple.

224-639 Gun System

Includes: PRO 4500sc E/S spray gun, 25 ft. (7.6 m) conductive air hose, 25 ft. (7.6 m) fluid hose, and air filter.

224-710 Gun and SVR

Includes: PRO 4500sc E/S spray gun and remote Spraying Voltage Readout (SVR).