

SIERRA PRECISION



The new Sierra 9000 A-2 Air Booster has several important features which make this unit ideal for refilling low-pressure and high-pressure air bottles, especially designed to meet the demands of high-volume stations. A newly developed automatic on/off switch allows the booster to pump air until the maximum pressure level is reached, then automatically turns the system off. When a new bottle is introduced into the system, the system detects the lower pressure and sends a signal to the booster to begin pumping again.

Like the Sierra 9000 Air Booster, the weight distribution and pumping mechanism of the 145-pound unit is so expertly designed and engineered that there is no need to anchor the unit during operation.*

- Completely redesigned pressure system circuitry compensates for different operating pressures.
- A simple turn of the knob allows you to switch from low-pressure bottles (2216 psi) to high-pressure (4500 psi). Levels are factory set and need no adjustment.
- Both circuits have their own "vent to atmosphere" safety valve to prevent the possibility of overfill.
- Easily mounts on trucks, trailers.*
- Can be used in the laboratory or factory as easily as in the field.

The Sierra 9000 Air Booster allows you to take air from any low-pressure source, including a cascade system or a conventional compressor, and boost it to any level up to 5,000 psi, with minimal depletion of storage air. The dry seal system in the Sierra 9000 Air Booster eliminates the chances of adding contaminants to the source air.

The Sierra 9000 Air Booster allows you to fill bottles quickly, efficiently and safely at the scene, eliminating the need to transport filled air bottles.

- Dramatically increases existing compressor life through reduction of running hours. Fewer compressor overhauls are needed.
- Powered by any conventional A.C. electrical system.
- Ability to fill air bottles on site greatly reduces need for storage facilities.
- Requires a source of gas of at least 1,000 psi to function properly.
- Lightweight and portable.
- Both units are designed to be used with all non-volatile gases.

* Unit should be secured for mobile use.

SPECIFICATIONS

BOOSTER

- 1 1/2 H.P.
- 2 PISTON
- ELECTRIC MOTOR
- SINGLE AND 3 PHASE
- 110 OR 230 VOLTS
- 15 AMPS HAVING NEMA LG-15R RECEPTACLE

HIGH PRESSURE SECTION

- NON-LUBRICATED
- CONTAMINANT FREE
- SINGLE SEAL
- HARD CHROME PISTONS

DRIVE SECTION

- SEALED BEARINGS

GAUGES

- INLET AND OUTLET GAUGES
- READING 0-5000 PSI

STANDARD CONTROLS

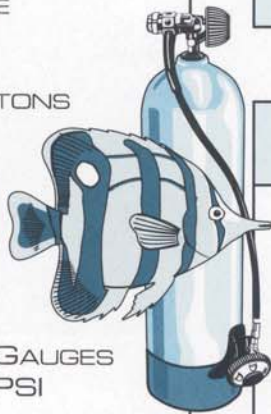
- MAGNETIC STARTER
- THERMAL OVERLOAD
- MANUAL SHUTOFF
- OVER PRESSURE
- SAFETY SHUTOFF

COOLING

- COOLING FAN BLOWING
- OVER FINNED TUBE

MAINTENANCE

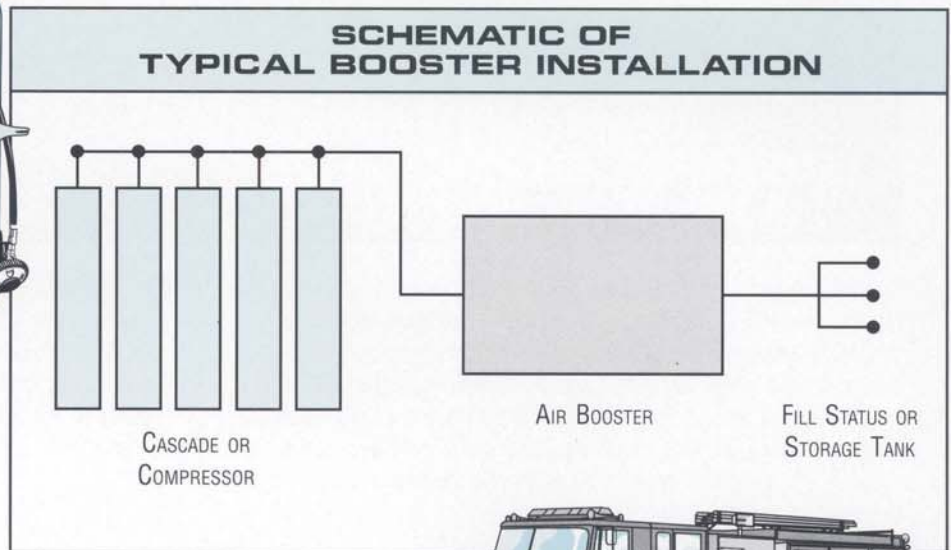
- LONG LIFE SEALS
- INFREQUENT REPLACEMENT



TYPICAL FILL TIMES

FROM COMPRESSOR STORAGE BANKS [AFTER BOTTLE HAS EQUALIZED WITH STORAGE PRESSURE]	45 CUBIC FT @ 4500 PSI	80 CUBIC FT @ 3000 PSI	50 CUBIC FT @ 3000 PSI	72 CUBIC FT @ 2250 PSI
	FILL TIMES IN SECONDS			
2500 PSI	41.4 SEC.	27.6 SEC.	17.4 SEC.	
2250 PSI	52.8 SEC.	42.0 SEC.	26.4 SEC.	
2000 PSI	75.6 SEC.	79.8 SEC.	49.8 SEC.	21.6 SEC.
1500 PSI	147.0 SEC.	200.4 SEC.	124.8 SEC.	97.2 SEC.

SCHEMATIC OF TYPICAL BOOSTER INSTALLATION



Currently in use by major fire departments across the United States



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