



MASTERLINE, INC.

Quality Air and Gas Boosters

MASTERLINE GAS BOOSTER INSTALLATION INSTRUCTIONS

PURPOSE

The Masterline gas booster requires a source of gas of at least 300 psi to function properly. Its purpose is to use the available gas pressure in supply cylinders to fill smaller cylinders to higher pressures. This will not improve the quality of the source gas nor will it add contaminants. Although the booster requires a minimum of 300 psi to function properly, any greater inlet pressure will reduce the fill time of the receiving cylinder.

PRINCIPLES OF OPERATION

The gas is routed to the booster through a flexible inlet hose. This hose comes from the supply cylinder and is connected to the inlet port at the rear of the unit. The gas enters the pump from the inlet port and travels through the in-line particle filter. The gas then flows through the booster, through the air-cooled after-cooler, and finally to the outlet port at the rear of the booster. Throughout this cycle, gas travels through the unit's gauges, shut-off valve, check valves, relief valves, pressure switches, and any other optional equipment. Once the booster is switched on, the pressure switch will automatically shut-down the booster when the desired pre-set pressure is reached. The supplied hour meter will record the booster running time.

INSTALLATION LOCATION

The Masterline booster can be mounted on a sturdy cart, a solid work bench, or on a welded frame constructed over a bank of cylinders. It is not imperative that the booster be bolted to the supporting surface, but is desirable from a safety standpoint. The booster should be located in an area that will allow a minimum of ten inches of space between the back and right side of the booster and any adjoining wall or equipment. This clearance is necessary to allow adequate air flow through the booster housing in order to cool the booster pump, electric motor, and the compressed gas. Proper ventilation will greatly reduce the temperature of the outlet gas. Having space around the unit will also simplify any required maintenance or service.

ENERGY SOURCE

Masterline gas boosters are available with many voltage options. Be sure your energy source matches the energy requirement of the booster. The unit will be supplied with an eight (8) foot power cord with an appropriate electrical connector for the specific voltage. (If electrical connector is not a standard item, the customer will need to supply the appropriate connector.)