ENB-04, ENB-05, ENB-10 Gas Booster

INSTALLATION, OPERATION& MAINTENANCE MANUAL

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IMPORTANT! FILE THIS MANUAL IN A SAFE PLACE FOR FUTURE SERVICE & PARTS NEEDS ALWAYS REFERENCE THE SERIAL NUMBER FOR SERVICE & PARTS REQUESTS

Pum	Serial Number:	

STATEMENT OF WARRANTY

INTERFACE DEVICES, INC. (hereafter, the factory) warrants it's products to be free from defects in material and workmanship under normal use and service for a period of one (1) year from date of shipment from the factory. Any defect discovered after the warranty period has expired will be deemed to be outside the above coverage. No goods claimed to be under warranty shall be accepted for return unless authorized by the factory beforehand.

Upon discovery of a defect (other than freight damage) or a shortage of an item received in the original factory container, the purchaser shall, within (10) calendar days, deliver notice of the defect or shortage. Damaged freight claims must be placed with the freight carrier and will not be honored by the factory. If after due investigation of a claim of defect or shortage is found valid, the factory, at it's sole discretion, may discharge it's entire obligations to the purchaser by either repair or replacement of the defective product or component and for shortages by furnishing a replacement of the missing quantity (FOB, factory).

This express warrantee supersedes and is in lieu of all other remedies and warranties, including the implied warranties of merchantability and fitness for a particular purpose, and liability for negligence. IN NO EVENT SHALL THE FACTORY BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL LOSSES, EXPENSES OR DAMAGES INCLUDING DAMAGES FOR PERSONAL INJURY OR COMMERCIAL LOSS.

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1.0 INSTALLATION

1.1 MOUNTING:

The booster comes standard with foot mounting brackets at each end of the pump (for 1/4 inch screws).

The unit may be mounted vertically (wall mount) or horizontally (floor mount).

1.2 CONNECTIONS:

Connect FILTERED shop air to the 1/2 npt "AIR IN" port on the pump (No Air Regulator or Lubricator is required). Maximum inlet drive pressure is 125 psi.

Connect your gas source to the ¼ npt "IN" port. Minimum/Maximum gas inlet pressures are listed below.

ENB-04	100-320 psi
ENB-05	100-400 psi
ENB-10	100-800 psi

Connect your high pressure circuit to the ¼ npt "OUT" port on the pump.

1.3 STARTUP:

Turn on the regulated gas supply to the pump.

Starting with the integral air regulator (on the pump) backed-out all the way, slowly increase the pressure by turning the regulator knob clockwise. The pump will start to cycle and the "OUT" gas pressure will rise.

The pump will stall when circuit pressure reaches the regulated air pressure times the pump ratio (4, 5 or 10). The pump will maintain this pressure even if there is some circuit leakage. At this time check for and fix any circuit leaks since this only causes unnecessary air/gas consumption and wear and tear on the pump.

2.0 MAINTENANCE:

2.1 ROUTINE MAINTENANCE:

The only routine maintenance required is to re-grease the main air spool (item 10) and the six "T-seals" (item 15) every 6 months.

2.2 TROUBLESHOOTING GUIDE: See following table on page 4.

ENB-04 GAS BOOSTER TROUBLESHOOTING GUIDE (Refer to enclosed Exploded View Drawing)

SYMPTOM	PROBABLE CAUSE(S)	REMEDY
Pump will not cycle. (Only regulated gas pressure at output)	No air supply to pump. Pump air regulator set too low.	Look for and fix. Increase setting.
Pump will <u>still</u> not cycle (Only regulated gas pressure at output)	Four-way air reciprocating valve spool stuck at mid-position. After trying remedy above, spool still sticks:	Disconnect/Reconnect air supply (Re-sets air spool to end position.) Manually push spool to far end with probe through hole in item 14 "Spool Stop Cap" If stuck or requires excessive force, disassemble air valve assembly. Inspect for contamination or mechanical bind. Repair or replace, lubricate seals with water-proof grease.
Pump makes one cycle, then stops.	Faulty item 2 "2-way air valve" (Broken, leaks or contaminated).	Repair or replace.
Pump cycles constantly when "dead-headed".	External leak at pump or downstream high pressure circuit.	Look for and correct.
	Stuck open or contaminated item 18 "Check Valve" cartridge (2 places).	Clean or replace.
	Internal leak in pump.	Check all dynamic and static seals and gaskets. Replace if necessary.

For further assistance call INTERFACE DEVICES, INC. at 203/878-4648.









