Gas Booster Systems

MAXPRO gas booster systems provide a compact, portable source for increasing gas pressures. These air driven booster systems are shipped assembled and fully tested, ready for turn-key installation. As with standard boosters, the gas booster systems require no electrical power, providing safe and economical operation.

Gas booster systems are capable of compressing most gases including nitrogen, argon, helium and hydrogen up to 36,000 psi. Systems feature special seals and cleaning can pressurize oxygen to 5,000 psi. All MAXPRO systems for use with hazardous gases are modified to ensure vent ports are piped to a common vent connection.

SYSTEM CATALOG NUMBER			GAS BOOSTER TYPE	SYSTEM RATING (PSI)	MINIMUM SUCTION PRESSURE	DIMENSIONS DP X HG X LG	WEIGHT
INERT GAS	HAZARDOUS GAS	OXYGEN GAS					
MTIG3-30	MTHG3-30	MTO2-3-30	DLE30	3,000	220	16" X 23" X 28"	120
MTIG3-5-30	MTHG3-5-30	MTO2-3-5-30	DLE5-30	3,000	30	16" X 23" X 28"	120
MTIG5-75	MTHG5-75	MTO2-5-75	DLE75	5,000	500	16" X 23" X 28"	120
MTIG5-15-75	MTHG5-15-75	MTO2-5-15-75	DLE15-75	5,000	100	16" X 23" X 28"	120
MTIG10-75-2	MTHG10-75-2	N/A	DLE75-2	10,000	650	16" X 23" X 38"	150
MTIG10-30-75-2	MTHG10-30-75-2	N/A	DLE30-75-2	10,000	220	16" X 23" X 38"	150
MTIG15-30-75-2	N/A	N/A	DLE30-75-2	15,000	220	16" X 23" X 38"	150

NOTE:
1. Various other gas booster models can be used to best fit your specific application.
2. Schematic shown is the standard system. Other options may be added or removed as required.
3. The hazardous gas systems have all vent ports plumbed to a common discharge port. This port must be plumbed to a safe vent area.
4. The oxygen systems have all components cleaned for oxygen service.
5. For higher flow rates and/or multiple stages, more than one booster may be used in the system.
6. Compression ratios and the control of heat generated are especially important on pure oxygen systems. Consult Maxpro for safety considerations.

Applications

- **Leak testing of pressure components**
- **Low pressure gas reclaim from storage bottles**
- **Gas charging accumulators**
- **Pressurizing gas cylinders and shock absorbers**
- **Breathing air systems for scuba and fire department SCBA tanks**
- **Boosting gas pressures from nitrogen and oxygen generators**
- **Gas assist injection molding**
- **Boosting gas pressures from vaporized liquid source**

Flow Schematic