



Air Pressure Intensifiers - Booster



AIR PRESSURE INTENSIFIERS

**2:1 MAXIMUM PRESSURE BOOST RATIO
13 BAR MAXIMUM DISCHARGE PRESSURE**

Ingersoll Rand's (IR) Compressed Air Pressure Intensifiers are a simple, low-cost method for improving air systems performance and resolving point of use low-pressure problems.

By installing an IR intensifier, it is possible to boost your air pressure by a 2:1 ratio. For example, an incoming pressure to the booster of 5BAR, an output pressure of up to 10BAR can be achieved.

Running your entire compressed air system at the lowest pressure possible is the most efficient and cost-effective way to produce and use compressed air. Incorporating point-of-use intensifiers, and boosting pressure only at specific points in your system that require high pressure, helps to achieve this.

IR intensifiers require no electricity and are completely self-contained units. Simply pipe compressed air into the inlet

port of the unit and adjust the unit's integral pressure regulator to the required discharge pressure. High-pressure will be delivered.

All IR intensifiers are mounted on a 50 Litre 13.8 BAR CE rated buffer tank, which helps prevent pulsation in the volume of air delivered from the booster to your application. The tank is fitted with a 13.8 BAR safety relief valve and manual drain valve. On the outlet port of the buffer tank is a secondary high-flow/high-pressure self-relieving regulator that allows for simple and precise pressure control from the buffer tank to the application.

When the intensifier reaches the set pressure the unit simply stalls and no air or energy is consumed. When pressure drops, the booster will automatically re-start.

The air consumption used to drive an

intensifier is between 1/2 to 1 times the amount of pressure-boosted air. If 0.57 m³/min of air is required, between 0.85 to 1.14 m³/min of compressed air will be used. Between 0.28 to 0.57 m³/min will be vented through the units exhaust muffler.

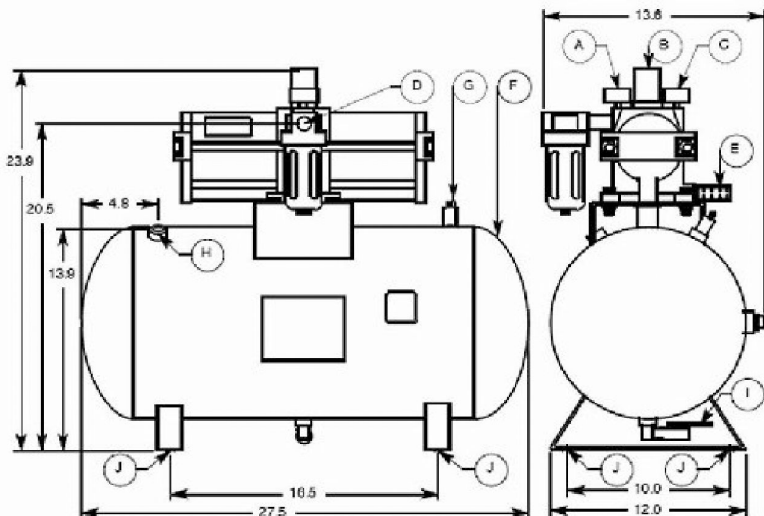
Supply pressure BAR	Maximum Flow-Rate m ³ /min	Discharge Pressure Max BAR
3	0.37	3.5 - 6.55
4	0.42	4.14 - 7.6
5	0.57	4.83 - 8.96
5.5	0.71	5.52 - 10.34
6	1.00	6.21 - 11.03
7	1.33	7.00 - 12.41
8	1.42	7.60 - 13.78

Booster Features

- A. Inlet pressure gauge
- B. Built-in pressure regulators
- C. Discharge pressure regulator
- D. Inlet Filter (not supplied with package)
- E. Exhaust Silencer
- F. 50 Litre 13.8 BAR CE tank
- G. 13.8 BAR safety valve
- H. xxx
- I. Drain valve
- J. Tank mounting holes

Booster Specifications

- Maximum boost ratio 2.1
- 100% duty cycle
- Inlet pressure range 1 - 10 BAR
- Discharge pressure range 1- 13.78 BAR
- Temperature range 4-54° C (40- 130° F)
- Weight 32 Kg
- Integral regulator controls discharge pressure and are self relieving
- Tank outlet pressure regulator



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