

SERIES: AAP



- **RUGGED CONSTRUCTION**
- **NO ELECTRICITY REQUIRED**
- **LONG SEAL LIFE AND EASILY MOUNTED**
- **POWERED BY THE SAME COMPRESSED AIR**
- **AN ALTERNATIVE TO HIGH PRESSURE COMPRESSOR**

INTRODUCTION

An air amplifier is an air pump that boosts pressure and is driven by part of the incoming compressed air supply. High pressure is generated due to applying low pressure air to a large area while the outlet air is pressurized in a small surface area. The increase in pressure is the result of the larger surface area of the piston in the drive space in comparison to the piston in the compression space.

The Indumart AAP Series of Air Amplifier is an alternatives to the purchasing of a dedicated high pressure compressor. The AAP Series Air Amplifiers are compact, require no electrical power or mechanical drive connection. They are powered by the same air that they amplify and can be mounted in any position.

As shown in the Table, the boost ratio is the maximum ratio of pressure amplification and is achieved at zero flow condition known as "stall". As the outlet flow increases the outlet pressure will decline.

The model with bore size of 80 mm is available with 2 or 4 amplifying ratio.

The model with bore size of 100 mm is available with 2 or 5 amplifying ratio.

The model with bore size of 125 mm is only available with 10 amplifying ratio.

Amplifying Ratio	Inlet Pressure	Max. Outlet Pressure
2 Times	30...115 psi 2...8 bar	230 psi 16 bar
4 Times	30...145 psi 2...10 bar	280 psi 40 bar
5 Times	30...145 psi 2...10 bar	725 psi 50 bar
10 Times	30...145 psi 2...10 bar	1450 psi 100 bar

ORDER CODES

Air Amplifier AAP

Bore Size

80 mm
100 mm
125 mm

080
100
125

Amplifying Ratio

2 Times (not for 125 mm bore)
4 Times (only for 80 mm bore)
5 Times (only for 100 mm bore)
10 Times (only for 125 mm bore)

02
04
05
10

Custom made units may be manufactured upon request.