

- Provides compression energy savings of up to 40% per load
- Up to \$30,000 cost savings per year per autoclave
- Reduced compressor maintenance



Description

CRS™ Compression Reduction System is an ASC proprietary system that when coupled with a customer's compressor can reduce overall compressor utilization by 40% for a typical autoclave load.

General

- CRS utilizes multiple air receivers, automated valving, and our CPC control system to provide recycling and reuse of compressed autoclave air in a production environment.
- By staging use and reuse of autoclave pressure, the CRS system can reduce overall compressors hours by 40%, thus reducing cost of operation.

Cost savings

- For a typical autoclave lamination cycle, a large component of the operation cost is the energy required to pressurize the autoclave. For a large production autoclave (ie. 10ft dia. X 20 ft. long), the compressor operation costs can exceed \$30,000/year/autoclave.
- The CRS system can reduce this cost by as much as 40%, resulting in a yearly savings of \$12,000 per autoclave.

System components

- Multiple ASME air receivers, sized based on autoclave volume, operating pressure, and reduction savings required.
- Electro-pneumatic valving, stainless-steel, controlled by CPC
- Pressure transducers for monitoring of each receiver, including calibration valving
- Interconnection with CPC control system

Implementation

A CRS can be installed on a single autoclave or can be designed and installed to work with multiple autoclaves.

ASC can provide the CRS as a turnkey solution if required.

Where customer is not currently operating the CPC system, ASC can provide a CPC retrofit or can provide a dedicated CRS controller.

Price

Please contact ASC sales engineer for sizing and quote