



GAS COMPRESSION

Gas
Compressors

Low Pressure
Gas Ends

FLOW (cfm)
72-3292

PRESSURE (psig)
100-200

Model	PDX10-GD	PDX12	PDX16	PDX20L	PDR20X
Flow (cfm)*	72-176	163-295	258-555	423-996	547-1289
Pressure (psig)*	200	200	200	200	200
Geared/Direct Drive	Geared	Geared	Geared	Geared	Geared
Capacity Control Valve Option	n/a	n/a	n/a	n/a	Spiral
Wt (lbs.)	202	390	598	1150	1260
Dim - LxWxH (in.)	15.5x14x11	29x20x15.25	32x20.25x15.25	40.5x24x18	44.5x24x18

Model	PDR25L-DD	PDR25L-GD	PDR25X-DD	PDR25X-GD
Flow (cfm)*	554	667-1124	826	994-1674
Pressure (psig)*	200	200	200	200
Geared/Direct Drive	Direct	Geared	Direct	Geared
Capacity Control Valve Option	Spiral	Spiral	Spiral	Spiral
Wt (lbs.)	2000	2250	2540	2625
Dim - LxWxH (in.)	42x28x33	51x39.5x23	50x28x23	57x28x23



Model	PDX32S	PDX32L	PDX32X	PDR32L-DD	PDR32L-GD	PDR32X-DD	PDR32X-GD
Flow (cfm)*	962-1215	1377-1671	2076-2329	1723	1219-2842	2331	1650-3292
Pressure (psig)*	200	200	200	100	100	100	100
Geared/Direct Drive	Direct	Direct	Direct	Direct	Geared	Direct	Geared
Capacity Control Valve Option	n/a	n/a	n/a	Spiral	Spiral	Spiral	Spiral
Wt (lbs.)	2950	3170	3610	2950	2950	3610	2950
Dim - LxWxH (in.)	56x35x29	48x36x25.5	56x36x25.5	56x35x29	56x35x29	63.5x35x29	56x35x29

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Low Pressure Gas Ends

Features

Rotors

Precision ground asymmetric profile delivers an optimal combination of capacity and power. Rotor speed range: 15 m/s to 50 m/s on male rotor tip.

Discharge

Several built-in volume ratios offer a range of pressure ratios meeting specific application requirements.

Casing

Heavy duty, double-wall cast iron casing provides for structural rigidity, pressure integrity, and low noise.

Drive Adaptor

Available drive adaptors (Flywheel adaptors or base-mounted) offer a convenient means to match up the gas end with the drive unit.

Shaft

Steel input shaft can be easily adapted/coupled to the driver with a variety of methods - keyed fit, mechanical locking or shrink-fit coupling hub. Drivers used include: natural gas and diesel engines, 1800 rpm, 3600 rpm motors and variable speed drives.

Mechanical Shaft Seals

Constructed from high-temperature metallized carbon with tungsten facing and Viton elastomers, seals provide a superior seal and the highest dependability - meeting the critical standards for process gas applications. These seals are flange mounted for easy maintenance and oil-cooled for long life.

Bearings

Anti-friction bearings are manufactured from all-steel (no plastic or "yellow metal" cages) construction for superior durability. Tapered roller bearings absorb thrust and radial loads; straight while roller bearings handle opposite end radial loads both contributing to the optimal performance of the rotors, even in the harshest conditions.

Gears

AGMA Class 11 Gears allow for a variety of internal gear ratios contributing to design optimization and operation economy.

Capacity Controls Options

Capacity controls are an option offered on several models via slide valves (Refrigeration Series) or spiral valves (Process Gas low pressure and high pressure gas ends). These controls allow gases that have been only slightly compressed to bypass back into the suction head. Capacity can be manually adjusted or automatically controlled based on pressure signal down to as low as 10% of full load working capacity (slide valve) or 50% of capacity (spiral valve).

Factory Tested

All Process Gas/Refrigeration gas ends are hydro tested to 1.5 times maximum allowable working pressure and air tested to ensure highest quality/power and capacity performance prior to being shipped.

Warranty

Sullair Process Gas/Refrigeration gas ends are warranted for a full year against defects in materials and workmanship.