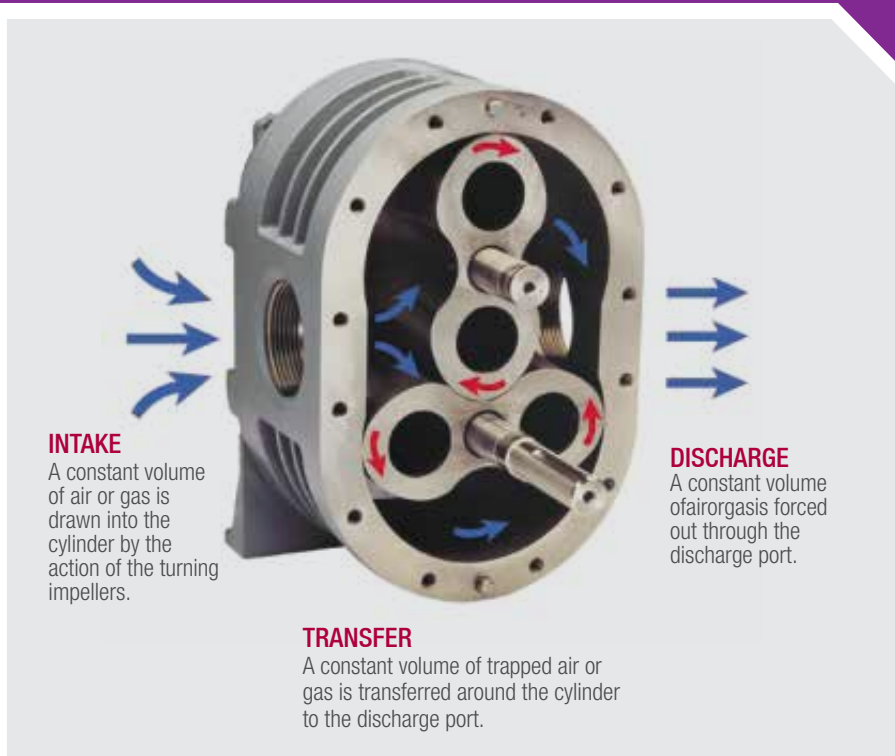
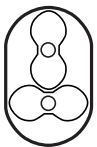


POSITIVE DISPLACEMENT ROOTS BLOWER



Designed specially for methane gas with **CORRGARD** coating



Two specially designed figure-eight impellers turn in opposite directions within a machined housing, transferring a constant volume of air or gas from the inlet to the discharge with every rotation of the blower drive shaft. No lubrication within the cylinder is required as the rotating components are held in close tolerance to each other and do not make contact. The impeller positioning is maintained by precision timing gears affixed to each impeller shaft. All essential gear and bearing lubrication occurs externally to the cylinder assuring clean, oil-free gas delivery under all operating conditions. Compression occurs after the gas leaves the blower and encounters system resistance in performing its intended work.

Flex-Mount Design Provides Maximum Installation Versatility

Flex-Mount design gives the Legend positive displacement blower and vacuum pump total application flexibility. It also assures complete interchangeability on existing and new applications and compatibility as replacements for most competitive installations.



Horizontal Configuration, Right Hand Drive



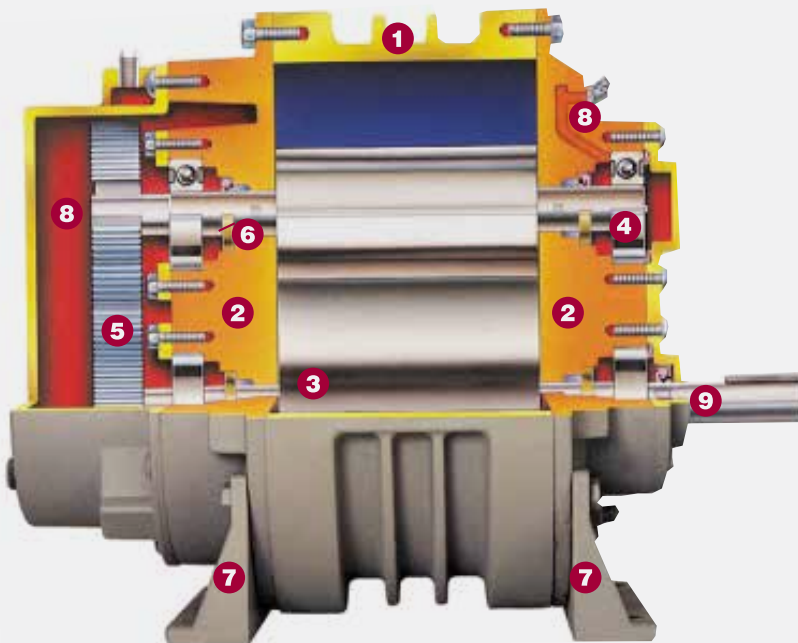
Horizontal Configuration, Left Hand Drive



Vertical Configuration, Bottom Hand Drive

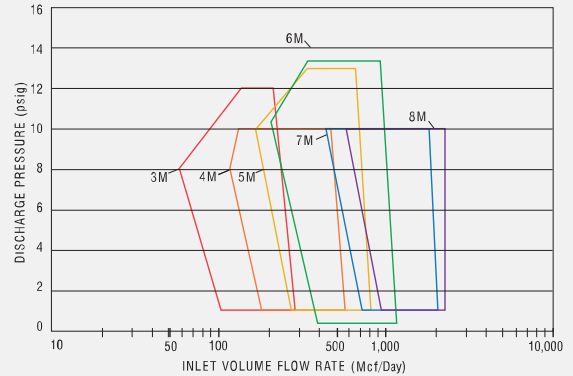


Vertical Configuration, Top Hand Drive



Sutorbilt Legend Performance Range

SUTORBITL MEDIUM PRESSURE MODELS



Design Features

- 1** High-strength impeller case is heavily ribbed and machined from a single piece of cast iron and features oversized dowel pins for precise mounting and alignment of head plates.

These features result in reduced noise and more stable, vibration-free operation.
- 2** Head plates, machined from cast iron, are ground on the interior surface to precise operating tolerances. Bearing fits are machined into head plates to assure exact bearing positioning.

This ensures accurate, fixed-dimension clearances through all blower operating conditions and temperature ranges.
- 3** Impellers are machined from cast iron to an exact profile and are permanently fastened to steel shafts. They are dynamically balanced for smooth operation in any assembled position.

This provides extra strength and rigidity to handle continuous maximum loads without fatigue or deflection.
- 4** Anti-friction bearings are used exclusively. Smaller models are fitted with single-row ball bearings and cylindrical roller bearings; large models have double-row ball bearings and spherical roller bearings.

Optimum bearing selection provides longer blower life and added overhung shaft load capacity.
- 5** Timing gears, precision machined from alloy steel forgings, are permanently pinned to the shafts.

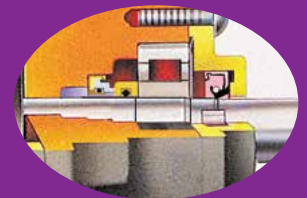
This assures non-slip timing even under the most strenuous loading conditions.
- 6** High temperature Viton® oil seals.

These maximize the seal life in continuous, severe-duty applications to provide leak-free operation.
- 7** Flex-Mount™ design is adaptable to either vertical or horizontal installation.

The feet are precisely machined and match the footprints of many competitive units.
- 8** Timing gears and gear end bearings are splash lubricated utilizing an abundant oil reservoir. A graphite gasketed, oil-tight housing encloses the timing gears. Drive end bearings are grease lubricated through fittings. Lip-type seals prevent oil and grease from entering the impeller chamber.

Superior gear and bearing lubrication is assured at all operating conditions with minimal maintenance.
- 9** High strength steel drive shaft is extended for V-belt drive or direct connection.

This feature provides greater blower durability and installation flexibility.



Available With Mechanical Gas Seals

The Legend design accommodates mechanical gas seals for critical gas applications with proven results based on a large installed base.

This field proven seal design allows trouble-free operation in critical gas applications.



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