

UNIMAC



Premium quality blower packages through innovative design and superior construction.

CS Series Blower Packages



CS SERIES BLOWER PACKAGES

CS Series Fiberglass enclosed rotary lobe blower packages offer flows to 400 CFM, vacuum to 14" HG and pressures to 13 PSIG.

Blower selection is made using computer modeling software carefully considering bearing life, % of maximum pressure, blower speed, temperature rise and noise level.



Sutorbilt Legend

Features

- Cylinder is machined from a single piece of cast iron, is heavily ribbed for high-strength and features oversized dowel pins for precise mounting and alignment of head plates.
- 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.
- Impellers are machined from cast iron to an exact profile and are permanently fastened to steel shafts. They are dynamically balanced for smooth operation.
- Precision machined alloy steel timing gears are securely fastened to the shafts assuring non-slip timing.
- Timing gears and gear end bearings are splash lubricated utilizing an abundant oil reservoir. Drive end bearings are grease lubricated through fittings.
- High temperature Viton® oil seals provide leak free operation.

Performance

- All inlet and discharge losses are factored into package performance calculations; CFM is stated at the discharge.
- Motor nameplate HP is not exceeded even at relief valve settings.
- Drives are designed for maximum life and minimum bearing load, with a service factor of 1.4 for belt drive and 2.0 for direct.
- All packages are tested at design and relief valve conditions. Readings are recorded on a Test Data Report.

Superior noise levels are achieved through a combination of design elements. Proper blower selection, premium quality silencers, and sound reduction enclosure deliver a very quiet package.



CS-4M-10

CS SERIES BLOWER PACKAGES

Integral Weather-proof Enclosure

The CS (Clam Shell) fiberglass enclosed rotary lobe blower packages range from 2 to 10 HP with pressures to 13 PSI.

The hinged “flip top” locks into place to stay open making access to the motor, blower and belt drive fast and easy. The weather proof design means it can be installed outdoors.

The sound attenuating “yacht quality” fiberglass enclosure is constructed of 1/8” thick thixotropic polyester resin reinforced with fiberglass strand. The exterior is finished with UV inhibited isophthalic polyester gel coat, buffed to a smooth finish.

Forced air ventilation provides proper air flow for cooling the enclosure. A fan mounted to the main motor shaft draws air through a louvered inlet opening and exhausts through an identical opening on the opposite side. No external power source is required.

A steel frame constructed of heavy channel provides a rigid base for the blower package and enclosure. The blower package is mounted to the frame with rubber isolators virtually eliminating transmitted noise.



CS-3M-5



CS-3M-5 (enclosure removed)

Standard Equipment

- Positive displacement rotary blower
- Synthetic lubricant fill and level gauge
- Drive motor 208-230-460/3/60 1.15 SF ODP, EPACT
- V-Belt drive with enclosed guard
- Oversized inlet silencer filter combination
- Full flow pressure relief valve
- Pressure gauge, SS, liquid filled
- Discharge silencer, absorptive
- Flexible connector between blower & silencer
- Structural steel mounting base
- Fiberglass enclosure, Clam Shell design
- Cooling ventilation fan
- Drawings, instruction & operating manuals

Options

- TEFC, IP-55 drive motor
- Discharge check Valve
- Air filter maintenance gauge
- Premium efficiency motor
- Weighted relief valve
- Temperature gauge
- IEEE-841 motor
- Additional Flex connector
- High air temperature switch
- 380/3/50 & 575/3/60 voltages
- VFD variable frequency drive
- Across the line motor starter
- Custom paint colors

UNIMAC

Unimac LP, founded on the principle of offering superior blower packages, has a history of innovation and excellence that sets standards for the industry. For twenty years Unimac LP has supplied blower packages on an international scope, with installations in the Middle East, Central and South America, Indonesia and the United States.

Our 16,000 sq. ft. shop is located on over an acre with an overhead crane, welding shop, metal-cutting saws and paint booth. A 600-amp test stand allows full load testing up to 250 HP and a VFD drive allows testing with 50 Hz power, common for international voltages.

Products are designed using Autodesk INVENTOR 2009, and manufactured in house, adhering to standardized quality control procedures. Critical steps in the fabrication process such as cutting, welding, piping, wiring and painting are performed by fabricator-welders, mechanics and technicians experienced in their craft with a proven track record of success in producing quality equipment. The end result is a consistent level of high quality that ships on time and performs as expected.

Pre-designed packages range from bare bones "Base Mounted" to "Quiet Enclosed" for maximum noise attenuation. By standardizing our designs we can streamline the whole manufacturing process, providing an excellent value with faster delivery. Our products incorporate innovative design concepts with added features to improve reliability, extend useful life, and make routine service easier. Attention to detail and an exceptional level of construction quality are evident throughout our products.

Sizes from 1 to 27,000 CFM • Pressures to 40 PSI • Vacuum to 27" Hg • Combined Pressure-Vacuum



Base Mounted



Table Top



Clam Shell



Quiet Enclosed



Gas Booster

