



Blower Comparison Chart

Features	RBS	Sonic	Paxton	Advantage
Ceramic Hybrid Bearings	Yes	No	No	Ceramic balls always run cooler than steel balls prolonging lubricant life.
				Vibration levels run 2-7 times lower than with same size steel bearings.
				Service life of ceramic balls is 2 to 5 times greater than conventional steel balls.
				Maximum running speed is 40% greater than steel ball bearings.
				Steel balls will cold weld to steel rings even under normal load and lubricant conditions. This reduces lubricant and bearing life.
				For more information on Ceramic Bearings see http://www.nsk.com
				Reduced maintenance expense.
16 Groove Micro-V Belt	Yes	No	Yes	Wider belt contacts more of the pulley surfaces resulting in less slippage, lower heat, and longer belt life. Reduced maintenance expense.
Steel Bearing Housing Standard (Electroless Nickel Plated)	Yes	No	Yes	Higher tensile strength than aluminum giving better stability and lower vibration than aluminum bearing bore. Lower coefficient of thermal expansion giving bearing a better fit in bore when blower is hot. Longer blower life.
Stainless Steel Blower Pulley	Yes	Yes	No	More wear and corrosion resistant than plated metal. Reduced maintenance expense.
Steel Motor Pulley (Electroless Nickel Plated)	Yes	No	Yes	3-4 times the weight of aluminum pulley causing slower startup speeds. Reduced wear on blower/drive assembly. Not damaged when belt slips. Lower maintenance expense.
Cooling Fins on Bearing Housing	Yes	No	No	Reduces operating temperature of bearing housing. Longer bearing and lubrication life. Longer blower life.
PTFE Shaft Seal on Both Sides of Bearing Assembly	Yes	No	No	Contaminants are the #1 cause of blower failure. Republic's proprietary seal design reduces blower failure over the competition. Longer blower life.
Mechanical Seals	Yes	No	No	Acts as a "second barrier" further reducing contamination of bearing housing. Longer blower life.
High Performance Impeller Design	Yes	No	Yes	The Republic blower moves more air per rotation than the competition. This translates to lower operation speeds with equal performance and significantly increased blower life.
Largest Tension Pulley	Yes	No	No	Slower tension pulley speed greatly increases bearing life. Lower maintenance.
Synthetic Grease and Rubber Seals in Tension Pulley	Yes	No	No	Our bearing is packed with the highest quality grease available and rubber seals to reduce contaminants. Lower maintenance expense.
Blower/Bearing Assembly Can Be Service in the Field	Yes	No	No	Better engineered design allows customer to service blower in the field. This saves both time and money and puts you in control!