

The Republic RBX Centrifugal Blower line is designed for efficiency, endurance, and optimal performance in high-demand applications such as aeration, drying and blow-off, vacuum hold-down, vapor transfer, and others.

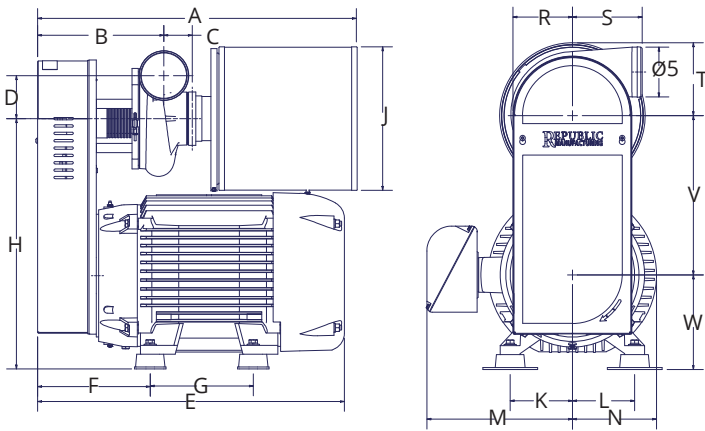
The RBX-250 can generate flow up to 2400 cfm and pressure greater than 100 in.H₂O, while attaining 80% peak efficiencies requiring only 15-40 hp. The outlet can be rotated, the bearing housing is easy to remove, and the blower is poly-v belt driven.



ADVANTAGES

- Smaller motor frame size creates 80% peak efficiency for lower power consumption and less cost
- Longevity - 7-8 times more bearing life
- Easy to replace bearing housing assembly
- Quick-release filter
- Rotatable blower discharge
- Precision balanced shaft/impeller assemblies
- Lower noise level
- Two year warranty
- Ceramic hybrid bearings
- Two-piece labyrinth seals designed and manufactured specifically for Republic RBX blowers
- Stainless steel blower pulley, zinc plated steel motor pulley, aluminum blower housing
- 16 Groove belt for long life
- Operational with all types of motors– washdown, explosion proof, and high efficiency

APPROXIMATE DIMENSIONS



Options

- Chemically resistant packages
- ANSI flanges on inlet/outlet (without filter)
- Tube adaptor (without filter)
- Optional discharge flange
- Installed thermocouples to monitor bearing temperature

Accessories

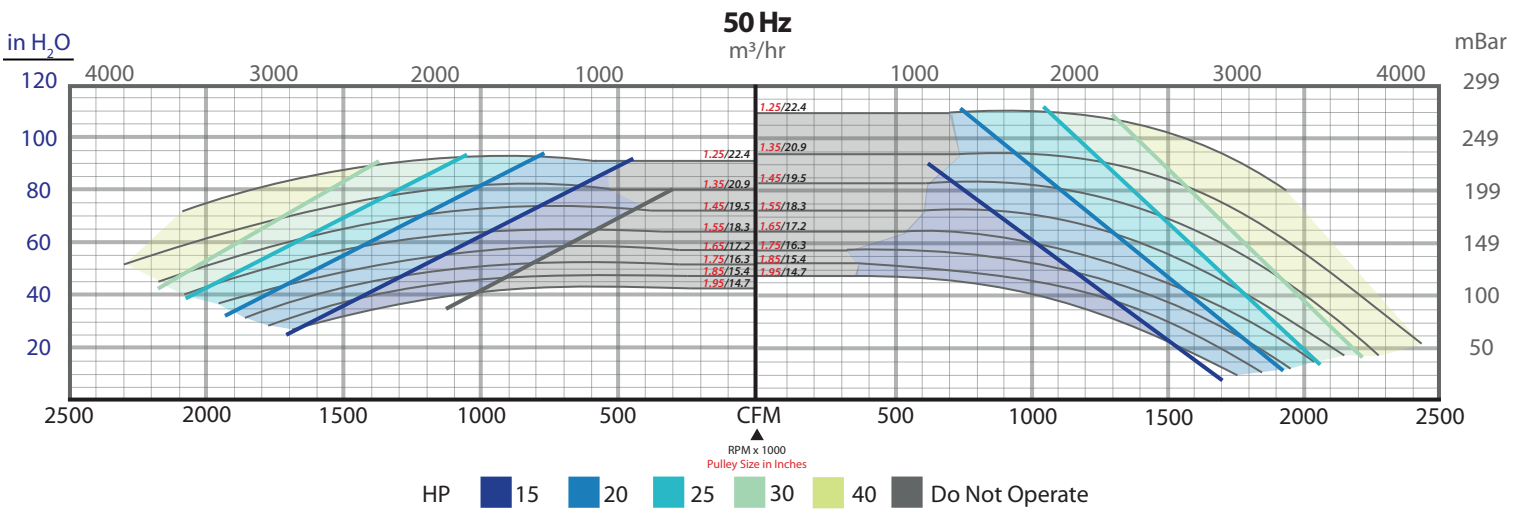
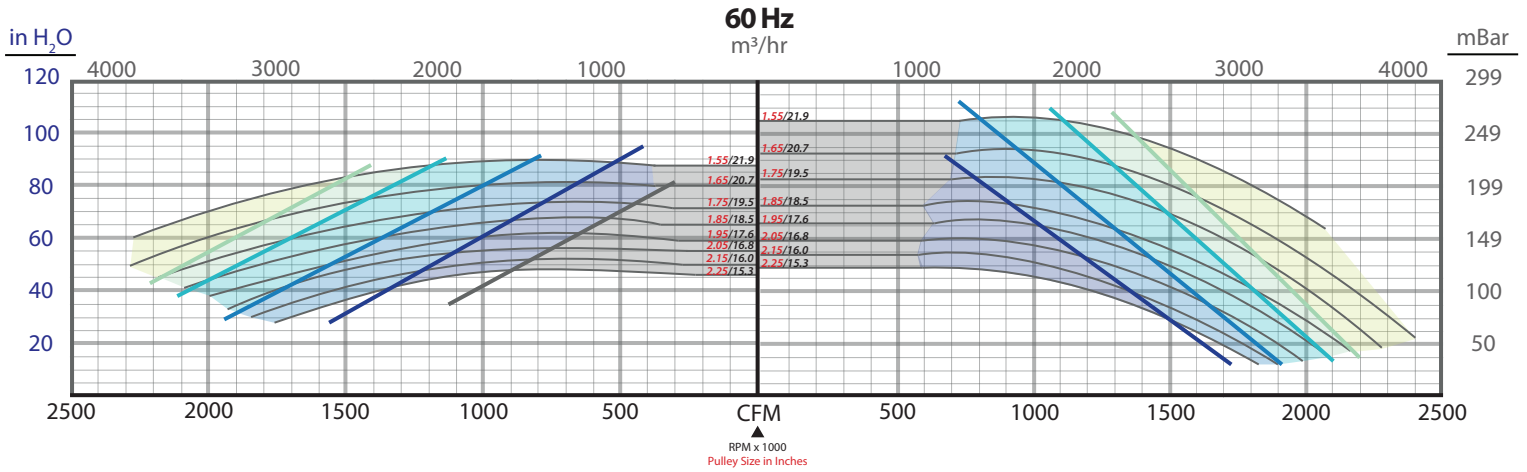
- Enclosures for noise control
- Exhaust silencer
- Starter panel/soft start
- Variable frequency drive
- Ball valves/butterfly valves
- Gauges

HP	Unit	A	B	C	D	E	F	G	H	ØJ	K	L	M	N	R	S	T	V	W
15 (254TC)	in	32.50	12.88	2.88	4.38	26.00	11.00	8.25	23.75	14.63	5.00	5.00	10.00	6.63	6.00	7.00	7.31	16.00	7.75
	mm	826	327	73	111	660	279	210	603	372	127	127	254	168	152	178	186	406	197
20 (256TC)	in	32.50	12.88	2.88	4.38	26.00	11.00	8.25	23.75	14.63	5.00	5.00	10.00	6.63	6.00	7.00	7.31	16.00	7.75
	mm	826	327	73	111	660	279	210	603	372	127	127	254	168	152	178	186	406	197
25 (284TSC)	in	32.50	12.88	2.88	4.38	27.69	11.00	9.50	24.50	14.63	5.50	5.50	12.25	6.63	6.00	7.00	7.31	16.00	8.50
	mm	826	327	73	111	703	279	241	622	372	140	140	311	168	152	178	186	406	216
30 (286TSC)	in	32.50	12.88	2.88	4.38	29.38	11.00	9.50	24.50	14.63	5.50	5.50	13.13	7.38	6.00	7.00	7.31	16.00	8.50
	mm	826	327	73	111	746	279	241	622	372	140	140	333	187	152	178	186	406	216
40 (324TSC)	in	32.50	12.88	2.88	4.38	31.25	11.50	10.50	25.50	14.63	6.25	6.25	14.63	8.44	6.00	7.00	7.31	16.00	9.50
	mm	826	327	73	111	794	292	267	648	372	159	159	371	214	152	178	186	406	241

PERFORMANCE

Vacuum vs. CFM

Pressure vs. CFM



Model	Frequency (Hz)	HP	Max Flow (CFM/m ³ /hr)	Max Vacuum (in. H ₂ O/mbar)	Max Pressure (in. H ₂ O/mbar)	Sound Level (db) without Enclosure or Silencer	Weight (lb/kg)	Retro Kit Weight (lb/kg)
RBX-250	50	15 (254TC)	1650/2803	83/207	87/217	89	255/116	89/40
	60		1500/2549	83/207	90/224			
	50	20 (256TC)	1900/3228	93/232	110/274	89	358/162	
	60		1990/3381	87/217	106/264			
	50	25 (284TSC)	2050/3483	93/232	111/277	89	450/204	
	60		2095/3559	90/224	107/267			
	50	30 (286TSC)	2200/3738	92/229	110/274	89	450/204	
	60		2175/3695	90/224	105/262			
50	40 (324TSC)	2420/4112	87/217	107/267	89	606/275		
60		2400/4078	85/212	98/244				

The performance curves are based on air at a temperature of 59 °F and an atmospheric pressure of 29.91 inch Hg with a tolerance of +/-10%. The total pressure differences are valid for inlet and ambient temperatures up to 77 °F. Suction capacity relates to inlet conditions. Pressure capacity relates to atmospheric conditions. For other conditions please contact Republic. Three phase motor tolerances are +/-10% for fixed voltage motors and +/-5% for voltage range motors. The frequency tolerance is +/-2% maximum.



©Republic Manufacturing - Revised 20200413

5131 Cash Road, Dallas, TX 75247, USA
800.847.0380 • info@republic-mfg.com • republic-mfg.com