

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.

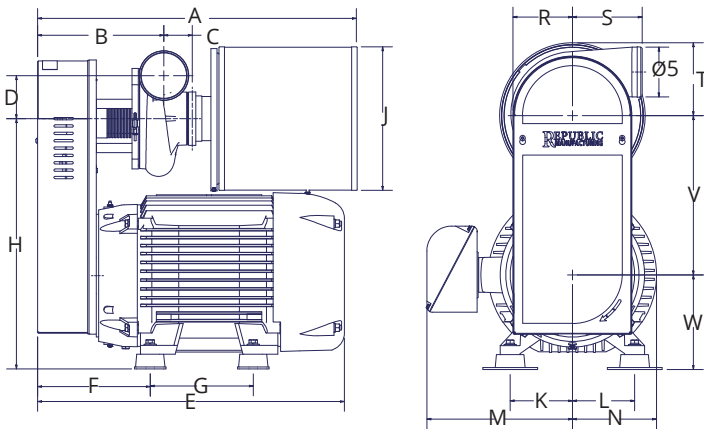
The RBX-250 can generate flow up to 2600 cfm and pressure greater than 100 in.H<sub>2</sub>O, while attaining 80% peak efficiencies, requiring only 15-40 hp. The outlet can be rotated, the bearing housing is easy to remove, and the blower is poly-v belt driven.



### ADVANTAGES

- 80% peak efficiency allows for lower power consumption, smaller motors, 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 adapter (without filter)
- Optional discharge flange
- Installed thermocouples to monitor bearing temperature

### Accessories

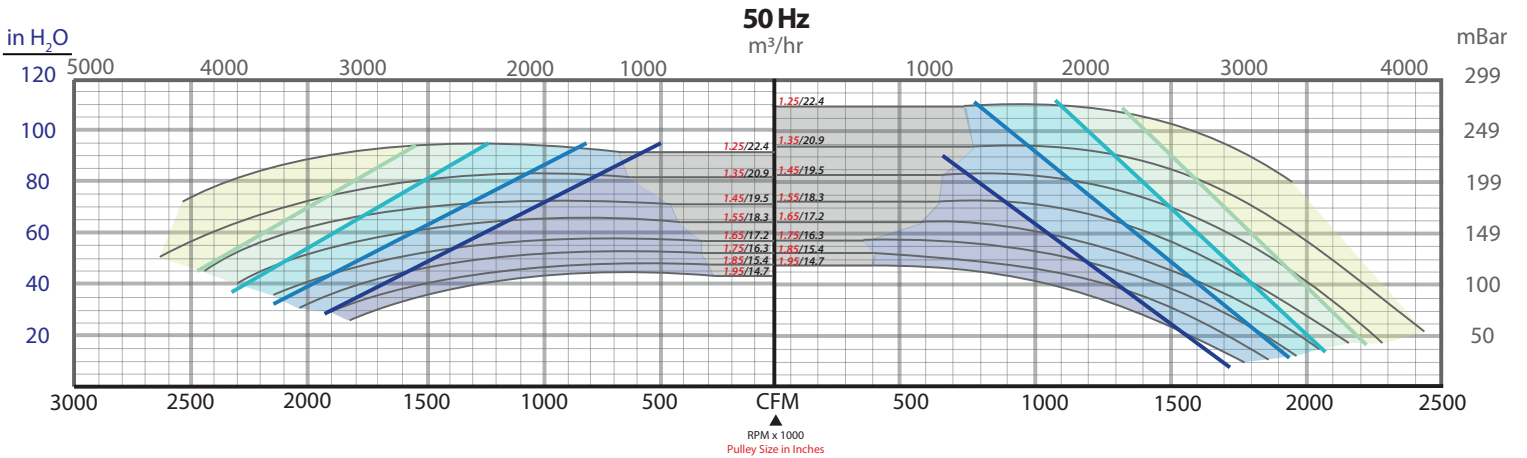
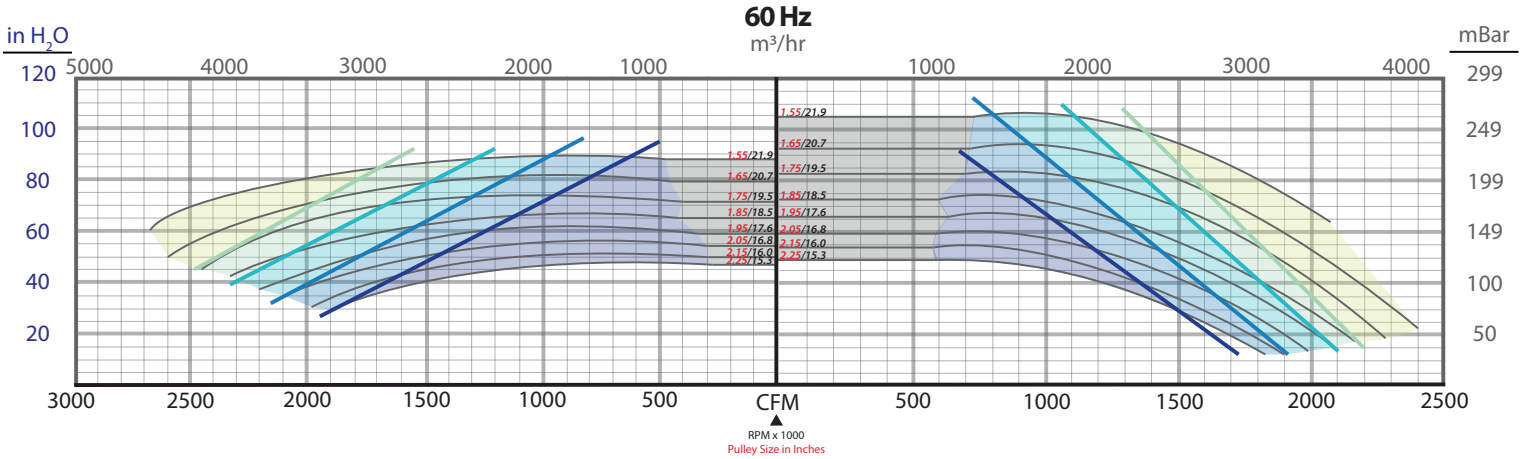
- Enclosures for noise control
- Exhaust silencer
- Starter panel/soft start
- Variable frequency drive
- Ball valves/butterfly valves
- Gauges

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



HP 15 20 25 30 40 Do Not Operate

Model	Frequency (Hz)	HP	Max Flow (CFM/m <sup>3</sup> /hr)	Max Vacuum (in. H <sub>2</sub> O/mbar)	Max Pressure (in. H <sub>2</sub> O/mbar)	Sound Level (db) without Enclosure or Silencer	Weight (lb/kg)	Retro Kit Weight (lb/kg)
RBX-250	50	15 (254TC)	1800/3058	87/217	87/217	89	255/116	89/40
	60		1790/3041	89/222	90/224			
	50	20 (256TC)	2100/3568	93/232	110/274	89	358/162	
	60		2100/3568	90/224	106/264			
	50	25 (284TSC)	2270/3857	95/237	111/277	89	450/204	
	60		2300/3908	90/224	107/267			
	50	30 (286TSC)	2450/4163	95/237	110/274	89	450/204	
	60		2470/4197	88/219	105/262			
50	40 (324TSC)	2650/4502	94/234	107/267	89	606/275		
60		2675/4545	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.



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