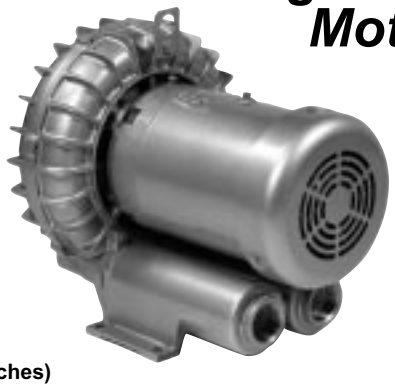
Oilless Regenerative Blowers, Motor Mounted

REGENAIR® R4M Series



MODELS R4M3090A

170" H_20 MAX. PRESSURE, 252 cfm OPEN FLOW (60 HZ)
136" H_20 / 10" Hg MAX. VACUUM

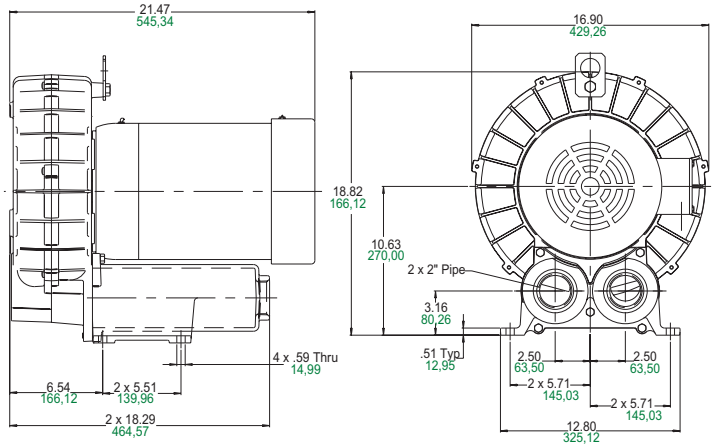
PRODUCT FEATURES

- Made in the U.S.A.
- Oilless operation
- UL & CSA approved TEFC motor w/permanently sealed ball bearings. Class F insulation, IP54 rated enclosure.
- Cast aluminum blower housing. Dual impeller & cover are cast aluminum.
- Can be mounted in any plane.
- CE compliant - Declaration of Conformity on file.
- Inlet and outlet have internal muffling.

RECOMMENDED ACCESSORIES

- Pressure gauge AE133A
- Inlet filter (pressure) AJ126F
- Vacuum gauge AE134F or AE134
- Vacuum gauge for monitoring inlet filter restriction AJ497
- Vacuum relief valve AG258
- Silencer for vacuum relief valve AJ121D
- In line filter (vacuum) AJ151G
- External muffler for additional silencing AJ121F

(mm) (Inches)



Product Specifications

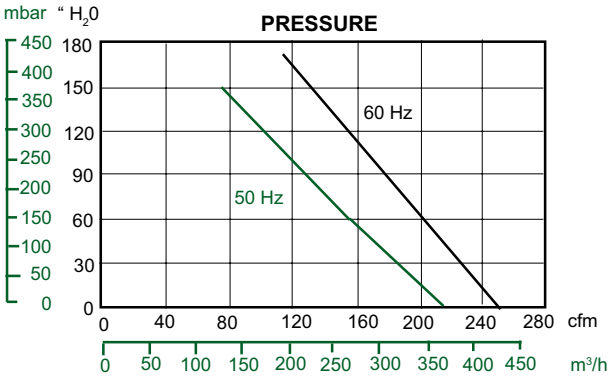
Recommended NEMA starter size for motor - 1/1

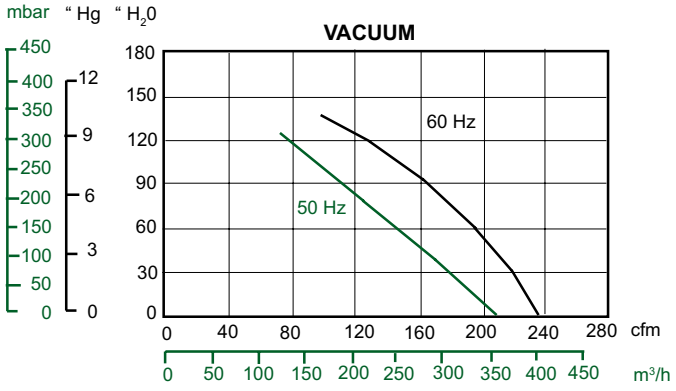
Specifications subject to change without notice

Model Number	Motor Specs	Full Load Amps	Locked Rotor Amps	HP	KW	RPM	Max Vac " Hg / " H_20	Max Vac mbar	Max Pressure " H_20	Max Pressure mbar	Max Flow cfm	Max Flow m^3h	Net Wt. lbs.	Net Wt. kg
R4M3090A	208-230/460-60-3	24-22.2/11.1	105 @ 460V	9	6.75	3500	10 / 136	339	170	423	252	428	198	90
	190-220/380-440-50-3	19.8-18.5/9.9-9.3		7	5.25	2850	9.2 / 125	311	150	374	217	369		

Reduce maximum duty ratings by 15" H_20 when operating at 207-187 volts (60 Hz)

Product Performance (metric, U.S.)





Free Air Flow

Pressure vs. Air Temp Rise Over Ambient (°F)

In. H_20	60 Hz	50 Hz
0	16	12
25	27	24
50	42	39
75	59	59
100	81	83
125	103	117
150	133	164
170	169	--

Pressure vs. K Watts Input

In. H_20	60 Hz	50 Hz
0	2.2	1.4
25	3.0	2.0
50	3.7	2.6
75	4.6	3.3
100	5.5	4.1
125	6.3	4.8
150	7.1	5.5
170	7.8	--

Inlet Air Flow

Vacuum vs. Air Temperature Rise (°F)

In. H_20	60 Hz	50 Hz
0	15	10
20	25	19
40	37	31
60	51	53
80	74	76
100	103	116
120	184	179
135	200	--

Vacuum vs. K Watts Input

In. H_20	60 Hz	50 Hz
0	2.0	1.2
20	2.5	1.7
40	3.0	2.1
60	3.6	2.7
80	4.3	3.2
100	4.9	3.8
120	5.5	4.4
135	6.1	--

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