




Vacuum Pumps

Model	Electrical	hp (kW)	Ultimate Vacuum Torr	Free Air Displacement cfm (L/min)	Intake Port O.D. in (mm)
<u>MA-23</u> <u>MA-23F</u>	115V/60Hz 230V/50Hz	1/3 (0.25) 1/3 (0.25)	9.0 9.0	3.5 (99) 3.5 (99)	0.375 (9.5) 0.375 (9.5)
<u>MA-24</u> <u>MA-24F</u>	115V/60Hz 230V/50Hz	1/3 (0.25) 1/3 (0.25)	9.0 9.0	3.4 (65) 3.4 (65)	0.375 (9.5) 0.375 (9.5)
<u>MA-27A</u> <u>MA-27AF</u>	115V/60Hz 230V/50Hz	1/2 (0.37) 1/2 (0.37)	0.001 0.001	3.0 (85) 3.0 (85)	0.375 (9.5) 0.375 (9.5)
<u>MA-31</u>	115V/60Hz	1/7 (0.14)	190	0.7 (20)	0.25 (6.3)
<u>MA-32</u> <u>MA-32F</u>	115V/60Hz 220-240V/50Hz	1/8 (0.10) 1/8 (0.10)	152 152	1.1 (32) 1.1 (32)	0.25 (6.3) 0.25 (6.3)
<u>MA-33</u> <u>MA-33F</u>	115V/60Hz 230V/50Hz	1/5 (0.20) 1/5 (0.20)	150 150	1.3 (37) 1.3 (37)	0.25 (6.3) 0.25 (6.3)


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