

# AIR MOVING MOTOR: 5.7 in. / 144.8 mm. 240 V 3-Stage

MODEL:116945-13

## SPECIFICATIONS

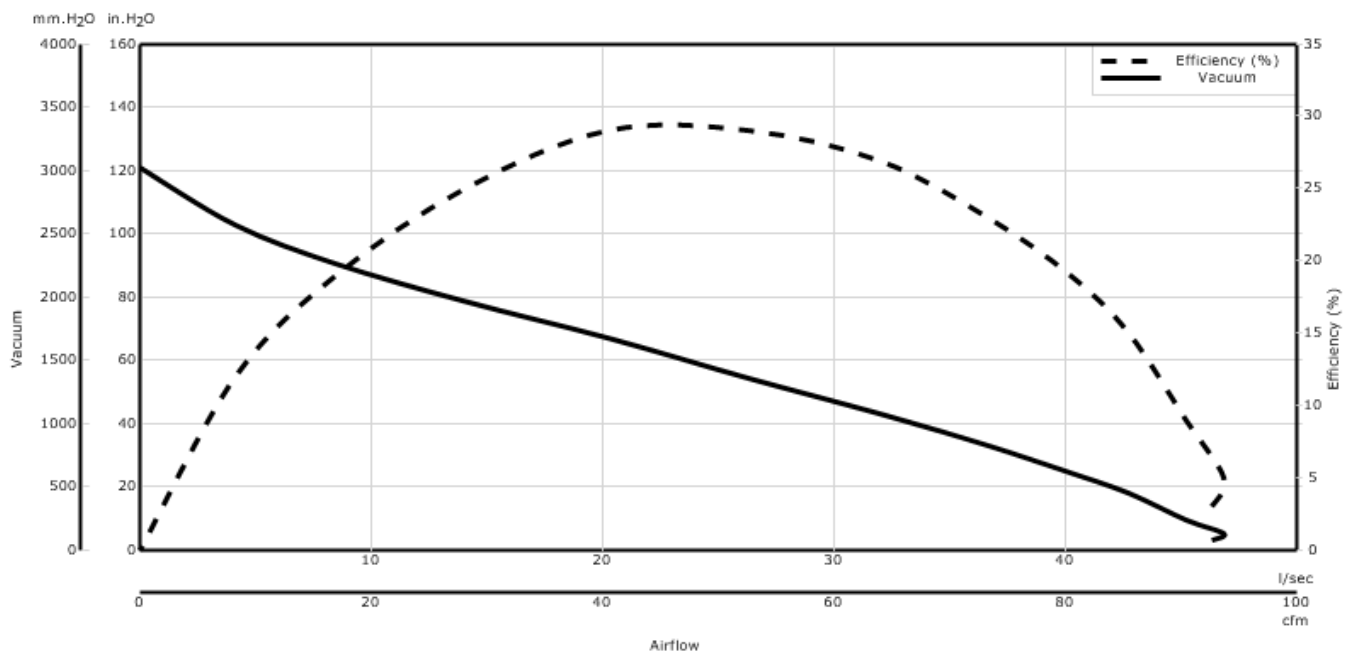
<b>Motor Type:</b>	Series Universal
<b>Input Voltage:</b>	240 VAC, 50/60 Hz
<b>Frequency:</b>	50/60 Hz
<b>Fan Diameter:</b>	5.7 in./144.8 mm
<b>No. Fan Stages:</b>	3
<b>Fan System Style:</b>	Bypass
<b>Air Discharge:</b>	Peripheral (Acustek)
<b>Operating Temp:</b>	32-104°F/0-40°C
<b>Bearing System:</b>	Ball/Ball
<b>Frame:</b>	Skeleton
<b>Brush Type:</b>	Carbon
<b>Inlet Tube Dia.:</b>	None
<b>RFI Choke:</b>	None
<b>Speed:</b>	1

## ADDITIONAL FEATURES

<b>Regulatory:</b>	UL Recognized, CSA certif
<b>Comm Bracket:</b>	Aluminum
<b>Fan Bracket:</b>	Plastic
<b>Therm Protect:</b>	None
<b>Insulation Class:</b>	Class A
<b>Added Bearing Prot.:</b>	Air Seal
<b>Fan Shell Coat:</b>	Epoxy
<b>Electrical Conn.:</b>	Lead Wires
<b>Duty Cycle:</b>	Intermittent
<b>Special Feature:</b>	

## Design Application

## PERFORMANCE



\* Data represents performance of a typical motor sampled from a large production quantity. Individual motor data may vary, due to normal manufacturing variations."

Data shown is measured at regulated nominal voltage and normalized to standard atmospheric pressure and temperature.

## ENGLISH

Orifice (inches)	Amps	Watts (In)	RPM	Vac (In. H2O)	Flow (CFM)	Air Watts
2.000	5.30	1189	20870	3.1	92.6	34
1.750	5.30	1191	20840	5.5	93.7	61
1.500	5.30	1200	20748	9.7	90.4	104
1.250	5.40	1207	20570	18.0	85.4	181
1.125	5.40	1216	20492	24.5	80.4	232
1.000	5.40	1218	20470	33.0	73.4	285
0.875	5.30	1203	20578	43.0	63.9	323
0.750	5.20	1169	20950	54.6	52.7	338
0.625	4.90	1108	21610	67.0	40.4	318
0.500	4.50	1028	22600	78.8	27.9	258
0.375	4.10	934	23900	90.9	16.9	181
0.250	3.70	847	25336	102.9	8.3	100
0.000	3.30	761	25956	121.1	0.0	0

## METRIC

Orifice (mm)	Amps	Watts (In)	RPM	Vac (mm H2O)	Flow (l/Sec)	Air Watts
48.000	5.30	1190	20857	106.0	43.9	46
40.000	5.30	1197	20776	214.0	43.1	91
30.000	5.40	1212	20527	548.0	39.0	209
23.000	5.30	1207	20551	1,029.0	31.3	314
19.000	5.20	1168	20963	1,393.0	24.8	338
16.000	4.90	1110	21584	1,689.0	19.3	319
13.000	4.50	1036	22501	1,972.0	13.8	264
10.000	4.20	948	23705	2,263.0	8.8	193
6.500	3.70	851	25264	2,598.0	4.1	104
0.000	3.30	761	25956	3,076.0	0.0	0

\* Metric data is calculated based on ASTM standards  
 Box tests are performed to ASTM F558

WARNING: When using AMETEK vacuum motors in machines that come in contact with foam, liquid (including water), or other foreign substances, the machine must be designed and constructed to prevent those substances from reaching the fan system, motor housing, and electrical components. Ametek motors other than hazardous duty models should not be applied in machines that come in contact with dry chemicals or other volatile materials. Failure to observe these precautions could cause flashing (depending on volatility) or electrical shock which could result in property damage and severe bodily injury, including death in extreme cases. All applications incorporating Ametek motors should be submitted to appropriate organizations or agencies for testing specifically related to the safety of your equipment.