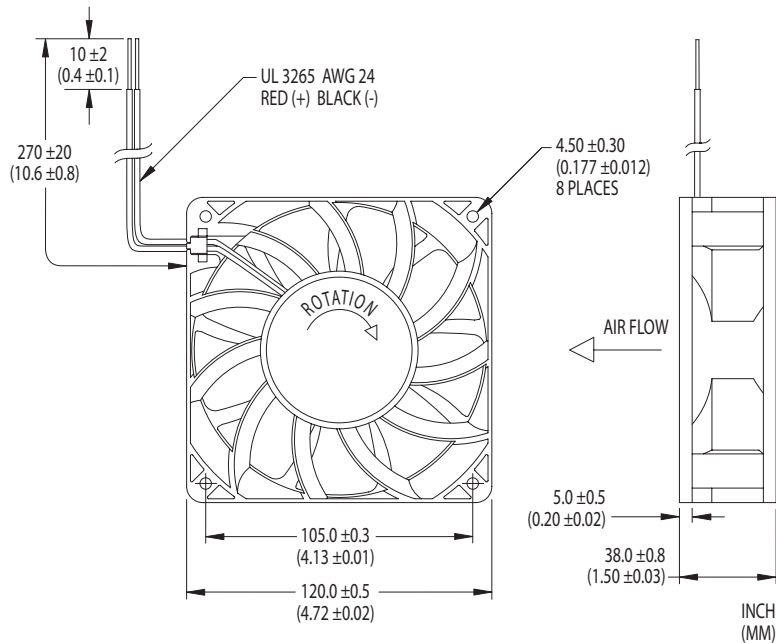


# UltraFlo™



## V12E Series

- ✓ Free-Running and Feedback-Governed, Speed-Stable Models
- ✓ Wide Variety of Monitor and Control Options and Signal Combinations
- ✓ Permanently Lubricated Ball Bearings



## 120 x 38mm Vane Axial Cooling Fans

Model	Air Flow (CFM)	Max. Static Pressure (inwg)	Operating Voltage		Operating Current (A)	Input Power (W)	Fan Speed (rpm)	Sound Pressure (dBA)	Operating Temp.		L10 Life† (hours)
			Nominal (V)	Range (V)					Min. (°C)	Max. (°C)	
<b>Speed-Stable</b>											
V12E12BUM9-01	225	1.38	12	7.0-13.8	3.3	39.6	5300	64.0	-10	+70	70,000
V12E12BGM9-01	198	1.11	12	7.0-13.8	2.1	25.2	4600	63.0	-10	+70	—
V12E12BHM9-01	177	0.97	12	7.0-13.8	1.6	19.2	4200	58.0	-10	+70	—
V12E12BMM9-01	155	0.76	12	7.0-13.8	1.2	14.4	3700	54.5	-10	+70	—
V12E12BLM9-01	136	0.56	12	7.0-13.8	0.8	9.6	3200	50.0	-10	+70	—
<b>Free-Running</b>											
V12E12BUM9-51	225	1.22	12	7.0-13.8	3.3	39.6	5300	64.0	-10	+70	70,000
V12E12BGM9-51	198	1.07	12	7.0-13.8	2.1	25.2	4600	63.0	-10	+70	—
V12E12BHM9-51	177	0.93	12	7.0-13.8	1.6	19.2	4200	58.0	-10	+70	—
V12E12BMM9-51	155	0.72	12	7.0-13.8	1.2	14.4	3700	54.5	-10	+70	—
V12E12BLM9-51	136	0.52	12	7.0-13.8	0.8	9.6	3200	50.0	-10	+70	—

Air flow, current, speed and sound pressure ratings are at nominal operating voltage and zero static pressure. Current and power ratings are average expected values under those conditions. † L10 bearing life expectancy at  $T_A = +40^\circ\text{C}$ .™ UltraFlo is a brand trademark of Nidec Corporation. N/AHBB

### Noise Power Emission Levels\*

Operating Voltage (V)	Fraction of Max. Air Flow	Fan Speed (rpm)	Static Pressure (inwg)	NPEL (Bels)
<b>Speed-Stable V12E12BUM9</b>				
13.8	100%	5300	0	7.7
	80%	5330	0.43	7.6
	20%	5250	1.17	8.1
12.0	100%	5300	0	7.7
	80%	5330	0.43	7.6
	20%	5250	1.17	8.1
7.0	100%	4980	0	7.5
	80%	4930	0.38	7.4
	20%	4790	1.13	7.9
<b>Free-Running V12E12BUM9</b>				
13.8	100%	5300	0	7.7
	80%	5130	0.37	7.7
	20%	4800	1.04	7.9
12.0	100%	5300	0	7.7
	80%	5130	0.37	7.7
	20%	4800	1.04	7.9
7.0	100%	4720	0	7.4
	80%	4665	0.36	7.3
	20%	4550	0.98	7.8

\* Sound levels in the tables are mean values, measured as the fans - without guards or other accessories - expel air from a test plenum on which they are mounted, using test methods and conventions prescribed by IPC-9591.

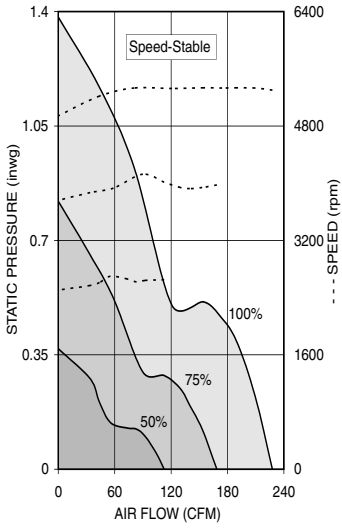


All for dreams

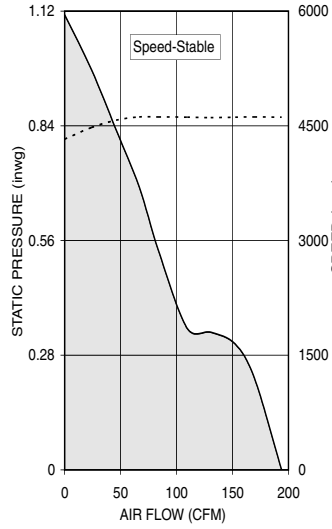
Nidec America Corporation · phone 781-769-0619 · email fans@nidec.com · www.nidec.com

V12E Vane Axial

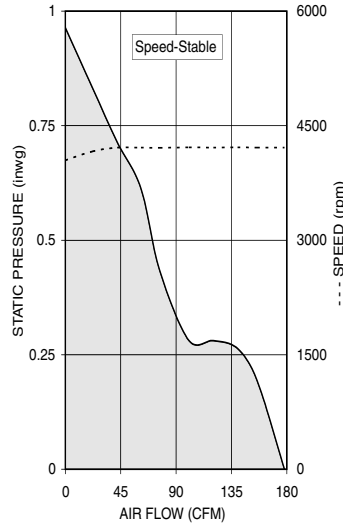
# UltraFlo™



V12E12BUM9-01



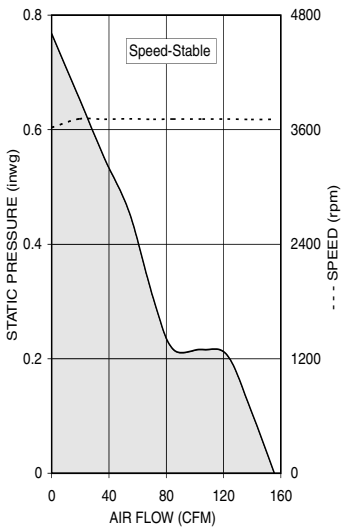
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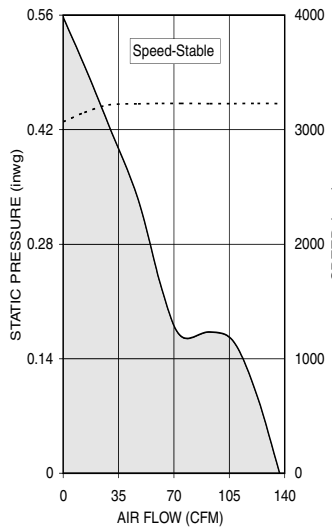
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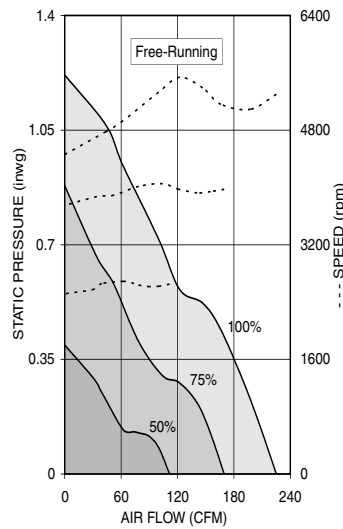
## V12E Series



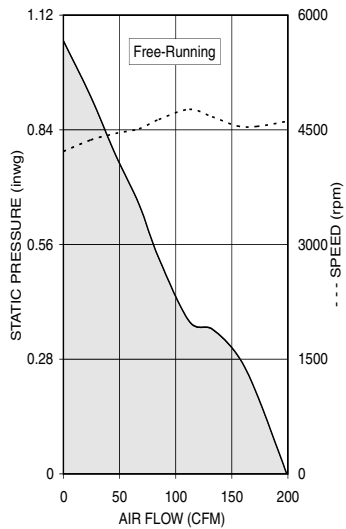
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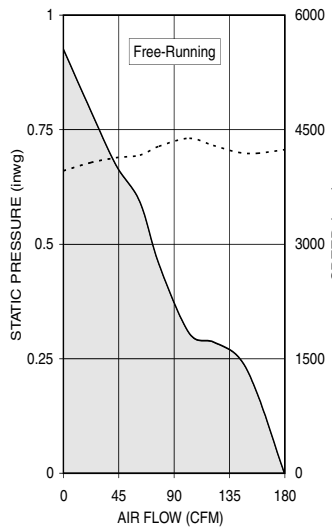
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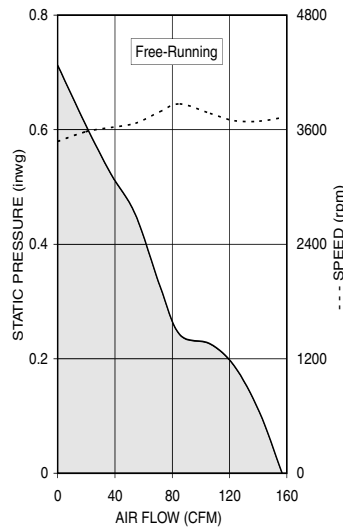
V12E12BUM9-51



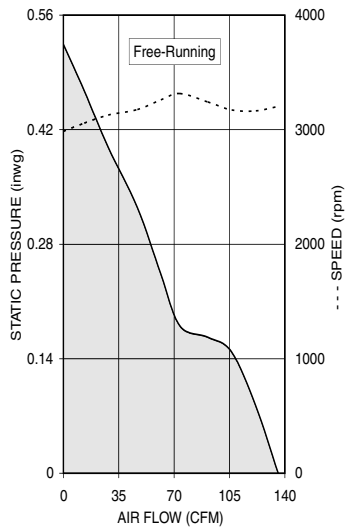
V12E12BGM9-51



V12E12BHM9-51



V12E12BMM9-51



V12E12BLM9-51



## Model Names

# V 12 E 12 B U M 9 - 57

## V

### Fan Design

- F** Fan/Heat Sink Combination
- G** Gamma Blower
- H** Hybrid Fan - Open Mounting Flange
- R** Dual In-Line Counter-Rotating Fan - Open Mounting Flange
- S** Dual In-Line Counter-Rotating Fan - Closed Mounting Flange
- T** Tube Axial Fan - Open Mounting Flange
- U** Tube Axial Fan - Closed Mounting Flange
- V** Vane Axial Fan - Open Mounting Flange
- W** Vane Axial Fan - Closed Mounting Flange
- X** 172mm Fan - StraightSide Housing - Open Mounting Flange
- Y** 172mm Fan - Round Housing - Open Mounting Flange

## 12

### Housing Width and Height, or Diameter

<b>12</b> 120mm	<b>42</b> 42mm	<b>76</b> 76mm
<b>17</b> 170mm	<b>50</b> 50mm	<b>80</b> 80mm
<b>25</b> 25mm	<b>51</b> 51mm	<b>92</b> 92mm
<b>30</b> 30mm	<b>59</b> 59mm	<b>93</b> 93mm
<b>35</b> 35mm	<b>60</b> 60mm	<b>97</b> 97mm
<b>40</b> 40mm	<b>70</b> 70mm	

## E

### Housing Depth

<b>B</b> 30mm	<b>I</b> 48mm	<b>R</b> 15mm
<b>C</b> 32mm	<b>J</b> 100mm	<b>S</b> 28mm
<b>D</b> 33mm	<b>K</b> 76mm	<b>T</b> 25mm
<b>E</b> 38mm	<b>L</b> 51mm	<b>W</b> 56mm
<b>G</b> 20mm	<b>M</b> 5mm	<b>X</b> 10mm
<b>H</b> 80mm	<b>N</b> 7mm	

## 12

### Nominal DC Operating Voltage

<b>03</b> 3.3V	<b>12</b> 12V	<b>36</b> 36V
<b>05</b> 5.0V	<b>18</b> 18V	<b>48</b> 48V
<b>07</b> 7.0V	<b>24</b> 24V	

## B

### Bearing Type

- B** Ball Bearing
- D** Fluid Dynamic Bearing
- M** NBRX Sleeve Bearing

## U

### Fan Speed

- |                 |                                |
|-----------------|--------------------------------|
| <b>L</b> Low    | <b>G</b> Faster                |
| <b>M</b> Medium | <b>U</b> Fastest               |
| <b>H</b> High   | <b>S(n)</b> Customer-Specified |

## M

### Motor Design

- A-L** Two-Phase Motors
- M-Y** Three-Phase Motors
- Z** Legacy Design

## 9

### Impeller Blades

<b>3-7</b> Number of Fan Blades	<b>A</b> 10
<b>B</b> 11	<b>C</b> 12
<b>D</b> 13	<b>E</b> 14
<b>F</b> 15	<b>G</b> 16

## 57

### Monitor/Control Options

#### Speed-StableFans

<b>01</b> None	<b>08</b> PWM Control & Locked Rotor Alarm
<b>02</b> Tachometer	<b>09</b> PWM Control & Trip-Point Alarm
<b>03</b> Locked Rotor Alarm	<b>10</b> Thermal Speed Control
<b>04</b> Trip-Point Speed Alarm	<b>11</b> Thermal Speed Control & Tach
<b>05</b> Tach & Locked Rotor Alarm	<b>12</b> Thermal Control & Locked Rotor Alarm
<b>06</b> PWM Speed Control	<b>13</b> Thermal Control & PWM Speed Control
<b>07</b> PWM Speed Control & Tach	<b>14</b> Thermal & PWM Speed Control & Tach
	<b>15</b> PWM Control, Tach, Inverse Locked Rotor Alarm

### Monitor/Control Options

#### Free-Running Fans

<b>51</b> None	<b>58</b> PWM Control & Locked Rotor Alarm
<b>52</b> Tachometer	<b>59</b> PWM Control & Trip-Point Alarm
<b>53</b> Locked Rotor Alarm	<b>60</b> Thermal Speed Control
<b>54</b> Trip-Point Speed Alarm	<b>61</b> Thermal Speed Control & Tach
<b>55</b> Tach & Locked Rotor Alarm	<b>62</b> Thermal Control & Locked Rotor Alarm
<b>56</b> PWM Speed Control	<b>63</b> Thermal Control & PWM Speed Control
<b>57</b> PWM Speed Control & Tach	<b>64</b> Thermal & PWM Speed Control & Tach
	<b>65</b> PWM Control, Tach, Inverse Locked Rotor Alarm