

## AXIAL FAN FANTEC Series

## FANTEC

### Certificates

- UL and cUL Recognized, File Number E508880
- CE Compliant

### Application

FANTEC series Axial Fans are designed to supply forced convection air to enclosures and electrical panels. By using the unique cooling features, FANTECs will cool down the inside of enclosures to a desired temperature to protect the electrical and electronic parts against heat.

### Features

- Wide range of operating temperatures from -40 °C/-40 °F to 70 °C/158 °F
- Fans are available in 24, 115, 230 VAC, 460 VAC and 12, 24, and 48 VDC
- Airflow from 24 CFM to 1300 CFM (40 m<sup>3</sup>/hr to 2200 m<sup>3</sup>/hr)
- Thermally, Electronically or Impedance Protected
- From 50,000 to 90,000 life cycle
- Aluminum Die Cast or UL94-V0 thermoplastic housing
- AC/DC fans are available with Dry Contact relay

### Color

- Black / Grey



Model No.	Outline Dimension	Rated Voltage	Power Consumption	Rotating Speed	Max. Air Flow	Max. Static Pressure	Noise Level	Durability
<b>AC Centrifugal Fans, backward curved blades - 115 V and 230 V</b>								
ARC225C115XBTP	ø 225 mm X 99 mm	100~120 VAC 50/60 Hz	40/45 W	1450/1750 RPM	595/678 m <sup>3</sup> /hr	13.97/19.81 mmH <sub>2</sub> O	53/55 db(A)	70,000 at 25 °C
	ø 8.8" X 3.9"				350/400 CFM	0.55/0.78 InchH <sub>2</sub> O		
ARC225C230XBTP	ø 225 mm X 99 mm	200~240 VAC 50/60 Hz	40/45 W	1450/1750 RPM	595/678 m <sup>3</sup> /hr	13.97/19.81 mmH <sub>2</sub> O	53/55 db(A)	70,000 at 25 °C
	ø 8.8" X 3.9"				350/400 CFM	0.55/0.78 InchH <sub>2</sub> O		
ARC225S115XBTP	ø 225 mm X 99 mm	100~120 VAC 50/60 Hz	109/145 W	2500/2600 RPM	1086/1086 m <sup>3</sup> /hr	50.8/63.5 mmH <sub>2</sub> O	70/73 db(A)	70,000 at 25 °C
	ø 8.8" X 3.9"				640/640 CFM	2.0/2.5 InchH <sub>2</sub> O		
ARC225S230XBTP	ø 225 mm X 99 mm	200~240 VAC 50/60 Hz	109/145 W	2500/2600 RPM	1086/1086 m <sup>3</sup> /hr	50.8/63.5 mmH <sub>2</sub> O	70/73 db(A)	70,000 at 25 °C
	ø 8.8" X 3.9"				640/640 CFM	2.0/2.5 InchH <sub>2</sub> O		
<b>AC-DC Energy Saving EC Fans</b>								
ARE1725115XBTP	172 mm X 150 mm X 51 mm	100 ~120 V	26/35 W ± 10%	5000 RPM ± 10%	612 m <sup>3</sup> /hr	41.15 mmH <sub>2</sub> O	68 db(A)	70,000 hrs @ 40 °C
	6-49/64" X 5-29/32" X 2-1/64"				360 CFM	1.62 inchH <sub>2</sub> O		
ARE17251230XBTP	172 mm X 150 mm X 51 mm	200~240 V	26/35 W ± 10%	5000 RPM ± 10%	612 m <sup>3</sup> /hr	41.15 mmH <sub>2</sub> O	68 db(A)	70,000 hrs @ 40 °C
	6-49/64" X 5-29/32" X 2-1/64"				360 CFM	1.62 inchH <sub>2</sub> O		
<b>DC Brushless Fans - 12 V</b>								
AR802512XBTP	80 mm X 80 mm X 38 mm	8~13.8 VDC	2.2 W	3300 RPM ±10%	66 m <sup>3</sup> /hr	5.84 mmH <sub>2</sub> O	33 db(A)	60,000 hrs @ 45 °C
	3-5/32" X 3-5/32" X 1"				40 CFM	0.23 inchH <sub>2</sub> O		
AR1203812XBTP	120 mm x 120 mm x 38 mm	8~13.8 VDC	10.6 (Max. 17) W	4200 RPM ± 10%	306 m <sup>3</sup> /hr	24.89 mmH <sub>2</sub> O	54 db(A)	65,000 hrs @ 45 °C
	4-23/32" X 4-23/32" X 1-1/2"				180 CFM	0.988 inchH <sub>2</sub> O		
AR1725112XBTP	172 mm X 150 mm X 51 mm	8~13.8 VDC	23 W ± 10%	4000 RPM ± 10%	534 m <sup>3</sup> /hr	23.11 mmH <sub>2</sub> O	61.5 db(A)	90,000 hrs @ 35 °C
	6-49/64" X 5-29/32" X 2-1/64"				315 CFM	0.91 inchH <sub>2</sub> O		
AR25489S12XBTP	ø 254 X 89 mm	9~13 VDC	64.8 W ± 10%	2400 RPM ± 10%	1,410 m <sup>3</sup> /hr	19.81 mmH <sub>2</sub> O	60 db(A)	90,000 hrs @35 °C
	ø 10" X 3-1/2"				830 CFM	0.78 inchH <sub>2</sub> O		
<b>DC Brushless Fans - 24 V</b>								
AR802524XBTP	80 mm X 80 mm X 38 mm	12~27.6 VDC	2.9 W	3300 RPM ±10%	66 m <sup>3</sup> /hr	5.84 mmH <sub>2</sub> O	33 db(A)	60,000 hrs @ 45 °C
	3-5/32" X 3-5/32" X 1"				40 CFM	0.23 inchH <sub>2</sub> O		
AR1203824XBTP	120 mm x 120 mm x 38 mm	15~26VDC	10.3 (Max. 22) W	4200 RPM ± 10%	306 m <sup>3</sup> /hr	24.89 mmH <sub>2</sub> O	55 db(A)	65,000 hrs @ 45 °C
	4-23/32" X 4-23/32" X 1-1/2"				180 CFM	0.988 inchH <sub>2</sub> O		
AR1725124XBTP	172 mm X 150 mm X 51 mm	15~27.6 VDC	24W ± 10%	4000 RPM ± 10%	534 m <sup>3</sup> /hr	23.11 mmH <sub>2</sub> O	61.5 db(A)	90,000 hrs @ 35 °C
	6-49/64" X 5-29/32" X 2-1/64"				315 CFM	0.91 inchH <sub>2</sub> O		
AR25489S24XBTP	ø 254 X 89 mm	16~27 VDC	63.6 W ± 10%	2500 RPM ± 10%	1,446 m <sup>3</sup> /hr	21.08 mmH <sub>2</sub> O	62 db(A)	90,000 hrs @35 °C
	ø 10" X 3-1/2"				850 CFM	0.83 inchH <sub>2</sub> O		
<b>DC Brushless Fans - 24 V - (with output relay)</b>								
AR1203824XBTP (R4)	120 mm x 120 mm x 38 mm	15~26VDC	8.4 (Max. 14.8) W	3200 RPM ± 10%	234 m <sup>3</sup> /hr	14.22 mmH <sub>2</sub> O	48 db(A)	65,000 hrs @ 45 °C
	4-23/32" X 4-23/32" X 1-1/2"				136 CFM	0.56 inchH <sub>2</sub> O		
<b>DC Brushless Fans - 48 V</b>								
AR802548XBTP	80 mm X 80 mm X 38 mm	24~56 VDC	3.8 W	3300 RPM ±10%	66 m <sup>3</sup> /hr	5.84 mmH <sub>2</sub> O	33 db(A)	60,000 hrs @ 45 °C
	3-5/32" X 3-5/32" X 1"				40 CFM	0.23 inchH <sub>2</sub> O		
AR1203848XBTP	120 mm x 120 mm x 38 mm	28~55 VDC	10.6 (Max. 20) W	4200 RPM ± 10%	306 m <sup>3</sup> /hr	24.89 mmH <sub>2</sub> O	56 db(A)	65,000 hrs @ 45 °C
	4-23/32" X 4-23/32" X 1-1/2"				180 CFM	0.988 inchH <sub>2</sub> O		
AR1725148XBTP	172 mm X 150 mm X 51 mm	22~56 VDC	23.5 W ± 10%	4000 RPM ± 10%	534 m <sup>3</sup> /hr	23.11 mmH <sub>2</sub> O	61.5 db(A)	90,000 hrs @ 35 °C
	6-49/64" X 5-29/32" X 2-1/64"				315 CFM	0.91 inchH <sub>2</sub> O		
AR25489S48XBTP	ø 254 X 89 mm	24~53 VDC	62.4 W ± 10%	2500 RPM ± 10%	1,218.6 m <sup>3</sup> /hr	21.08 mmH <sub>2</sub> O	62 db(A)	90,000 hrs @35 °C
	ø 10" X 3-1/2"				718 CFM	0.83 inchH <sub>2</sub> O		

Axial Fan product codes ending with P or ( ) are for plastic impellers, product codes ending with M are for metal impellers

# Technical Data

Model No.	Outline Dimension	Rated Voltage	Power Consumption	Rotating Speed	Max. Air Flow	Max. Static Pressure	Noise Level	Durability
<b>AC Axial Fans - 115 V</b>								
AR8038115XBT	80 mm X 80 mm X 38 mm	100-120 VAC 50/60 Hz	12/9 W ± 10%	2400/2900 RPM ± 10%	41/48 m³/hr	3.5/4.9 mmH2O	33/38 db(A)	50,000 hrs @ 25 °C
	3-5/32" X 3-5/32" X 1-1/2"				24/28.4 CFM	0.14/0.19 inchH2O		
AR8038115XBTP	80 mm X 80 mm X 38 mm	100-120 VAC 50/60 Hz	14/12 W ± 10%	2700/3250 RPM ± 10%	42/54 m³/hr	4.06/5.59 mmH2O	29 db(A)	80,000 hrs @ 45 °C
	3-5/32" X 3-5/32" X 1-1/2"				26/31 CFM	0.16/0.22 inchH2O		
AR12038115XBT	120 mm x 120 mm x 38 mm	100-120 VAC 50/60 Hz	20/17 W ± 10%	2650/3000 RPM ± 10%	143/163 m³/hr	7.5/7.8 mmH2O	43/47 db(A)	50,000 hrs @ 25 °C
	4-23/32" X 4-23/32" X 1-1/2"				84/96 CFM	0.30/0.31 inchH2O		
AR12038115XBTP	120 mm x 120 mm x 38 mm	100-120 VAC 50/60 Hz	16/14 W ± 10%	2600/3050 RPM ± 10%	180/210 m³/hr	7.62/8.13 mmH2O	45 db(A)	80,000 hrs @ 45 °C
	4-23/32" X 4-23/32" X 1-1/2"				106/125 CFM	0.30/0.32 inchH2O		
AR17251115XBT	172 mm X 150 mm X 51 mm	100-120 VAC 50/60 Hz	43/40 W ± 10%	2700/3000 RPM ± 10%	298/306 m³/hr	12/7.5 mmH2O	56/58 db(A)	50,000 hrs @ 25 °C
	6-49/64" X 5-29/32" X 2-1/64"				175/180 CFM	0.47/0.30 inchH2O		
AR17251115XBTM	172 mm X 150 mm X 51 mm	100-120 VAC 50/60 Hz	26/35 W ± 10%	2750/3150 RPM ± 10%	354/426 m³/min	13.97/14.73 mmH2O	58 db(A)	50,000 hrs @ 55 °C
	6-49/64" X 5-29/32" X 2-1/64"				210/250 CFM	0.55/0.58 inchH2O		
AR225G115XBTM	225 mm X 240 mm X 80 mm	100-120 VAC 50/60 Hz	60/80 W ± 10%	2700/3100 RPM ± 10%	918/1,056 m³/min	20.32/18.8 mmH2O	66 db(A)	45,000 hrs @ 55 °C
	8.9" X 9.5" X 3.1"				540/620 CFM	0.8/0.74 inchH2O		
AR25089C115XBTP	ø 254 X 89 mm	100-120 VAC 50/60 Hz	23/35 W ± 10%	1450/1680 RPM ± 10%	780/930 m³/hr	10.92/11.94 mmH2O	45 db(A)	80,000 hrs @ 35 °C
	ø 10" X 3-1/2"				460/550 CFM	0.43/0.47 inchH2O		
AR25089S115XBTP	ø 254 X 89 mm	100-120 VAC 50/60 Hz	60/75 W ± 10%	2600/2700 RPM ± 10%	1,392/1,464 m³/hr	19.81/18.54 mmH2O	65 db(A)	80,000 hrs @ 35 °C
	ø 10" X 3-1/2"				820/860 CFM	0.78/0.73 inchH2O		
AR25089G115XBTM	ø 254 X 89 mm	100-120 VAC 50/60 Hz	95/105 W ± 10%	2800/3250 RPM ± 10%	1,428/1,700 m³/hr	19.81/15.24 mmH2O	70 db(A)	50,000 hrs @ 55 °C
	ø 10" X 3-1/2"				840/1000 CFM	0.78/0.60 inchH2O		
AR280G115XBTM	280 mm X 280 mm X 89 mm	100-120 VAC 50/60 Hz	155/210 W ± 10%	2800/3200 RPM ± 10%	1,956/2,208 m³/hr	30.48/19.05 mmH2O	73 db(A)	50,000 hrs @ 55 °C
	11" X 11" X 3.5"				1,150/1,300 CFM	1.2/0.75 inchH2O		
<b>AC Axial Fans - 230 V</b>								
AR8038230XBT	80 mm X 80 mm X 38 mm	200-240 VAC 50/60 Hz	17/12 W ± 10%	2400/2900 RPM ± 10%	41/48 m³/hr	3.5/4.9 mmH2O	33/38 db(A)	50,000 hrs @ 25 °C
	3-5/32" X 3-5/32" X 1-1/2"				24/28.4 CFM	0.14/0.19 inchH2O		
AR8038230XBTP	80 mm X 80 mm X 38 mm	200-240 VAC 50/60 Hz	14/12 W ± 10%	2700/3250 RPM ± 10%	42/54 m³/hr	4.06/5.59 mmH2O	29 db(A)	80,000 hrs @ 45 °C
	3-5/32" X 3-5/32" X 1-1/2"				26/31 CFM	0.16/0.22 inchH2O		
AR12038230XBT	120 mm x 120 mm x 38 mm	200-240 VAC 50/60 Hz	17/15 W ± 10%	2650/3000 RPM ± 10%	143/163 m³/hr	7.5/7.8 mmH2O	43/47 db(A)	50,000 hrs @ 25 °C
	4-23/32" X 4-23/32" X 1-1/2"				84/96 CFM	0.30/0.31 inchH2O		
AR12038230XBTP	120 mm x 120 mm x 38 mm	200-240 VAC 50/60 Hz	16/14 W ± 10%	2600/3050 RPM ± 10%	180/210 m³/hr	7.62/8.13 mmH2O	45 db(A)	80,000 hrs @ 45 °C
	4-23/32" X 4-23/32" X 1-1/2"				106/125 CFM	0.30/0.32 inchH2O		
AR17251230XBT	172 mm X 150 mm X 51 mm	200-240 VAC 50/60 Hz	38/36 W ± 10%	2700/3000 RPM ± 10%	298/306 m³/hr	12/7.5 mmH2O	56/58 db(A)	50,000 hrs @ 25 °C
	6-49/64" X 5-29/32" X 2-1/64"				175/180 CFM	0.47/0.30 inchH2O		
AR17251230XBTM	172 mm X 150 mm X 51 mm	200-240 VAC 50/60 Hz	26/35 W ± 10%	2750/3150 RPM ± 10%	354/426 m³/min	13.97/14.73 mmH2O	58 db(A)	50,000 hrs @ 55 °C
	6-49/64" X 5-29/32" X 2-1/64"				210/250 CFM	0.55/0.58 inchH2O		
AR225G230XBTM	225 mm X 240 mm X 80 mm	200-240 VAC 50/60 Hz	60/80 W ± 10%	2700/3100 RPM ± 10%	918/1,056 m³/min	20.32/18.8 mmH2O	66 db(A)	45,000 hrs @ 55 °C
	8.9" X 9.5" X 3.1"				540/620 CFM	0.8/0.74 inchH2O		
AR25089C230XBTP	ø 254 X 89 mm	200-240 VAC 50/60 Hz	23/35 W ± 10%	1450/1680 RPM ± 10%	780/930 m³/hr	10.92/11.94 mmH2O	45 db(A)	80,000 hrs @ 35 °C
	ø 10" X 3-1/2"				460/550 CFM	0.43/0.47 inchH2O		
AR25089S230XBTP	ø 254 X 89 mm	200-240 VAC 50/60 Hz	60/75 W ± 10%	2600/2700 RPM ± 10%	1,392/1,464 m³/hr	19.81/18.54 mmH2O	65 db(A)	80,000 hrs @ 35 °C
	ø 10" X 3-1/2"				820/860 CFM	0.78/0.73 inchH2O		
AR25089G230XBTM	ø 254 X 89 mm	200-240 VAC 50/60 Hz	95/105 W ± 10%	2800/3250 RPM ± 10%	1,428/1,700 m³/hr	19.81/15.24 mmH2O	70 db(A)	50,000 hrs @ 55 °C
	ø 10" X 3-1/2"				840/1000 CFM	0.78/0.60 inchH2O		
AR280G230XBTM	280 mm X 280 mm X 89 mm	200-240 VAC 50/60 Hz	155/210 W ± 10%	2800/3200 RPM ± 10%	1,956/2,208 m³/hr	30.48/19.05 mmH2O	73 db(A)	50,000 hrs @ 55 °C
	11" X 11" X 3.5"				1,150/1,300 CFM	1.2/0.75 inchH2O		
<b>AC Axial Fans - 460 V</b>								
AR25089G440XBTM	ø 254 X 89 mm	440-480 VAC 50/60 Hz	95/105 W ± 10%	2800/3250 RPM ± 10%	1,428/1,700 m³/hr	19.81/15.24 mmH2O	70 db(A)	50,000 hrs @ 55 °C
	ø 10" X 3-1/2"				840/1000 CFM	0.78/0.60 inchH2O		
<b>AC Axial Fans - 24 V - Metal Impeller</b>								
AR1203824XBTM	120 mm x 120 mm x 38 mm	24-28 VAC 50/60 Hz	21/20 W	2550/3100 RPM	150/180 m³/hr	6.35/5.59 mmH2O	48 db(A)	50,000 hrs @ 55 °C
	4-23/32" X 4-23/32" X 1-1/2"				90/105 CFM	0.25/0.22 inchH2O		
AR1725124XBTM	172 mm X 150 mm X 51 mm	24-28 VAC 50/60 Hz	47/42 W	2750/3100 RPM	312/354 m³/hr	12.97/12.45 mmH2O	58 db(A)	50,000 hrs @ 55 °C
	6-49/64" X 5-29/32" X 2-1/64"				185/210 CFM	0.55/0.49 inchH2O		
<b>AC Axial Fans - with dry contact (with output relay) - 115 V &amp; 230 V</b>								
AR12038115XBTP (R4)	120 mm x 120 mm x 38 mm	85-256 VAC 50/60 Hz	10/8 (6.5) W	3000 RPM	228 m³/hr	10.67 mmH2O	47 db(A)	70,000 hrs @ 40 °C
	4-23/32" X 4-23/32" X 1-1/2"				134 CFM	0.42 inchH2O		
AR12038230XBTP (R4)	120 mm x 120 mm x 38 mm	85-256 VAC 50/60 Hz	10/8 (6.5) W	3000 RPM	228 m³/hr	10.67 mmH2O	47 db(A)	70,000 hrs @ 40 °C
	4-23/32" X 4-23/32" X 1-1/2"				134 CFM	0.42 inchH2O		
AR12038115XBTP (R6)	120 mm x 120 mm x 38 mm	85-256 VAC 50/60 Hz	10/8 (6.5) W	3000 RPM	228 m³/hr	10.67 mmH2O	47 db(A)	70,000 hrs @ 40 °C
	4-23/32" X 4-23/32" X 1-1/2"				134 CFM	0.42 inchH2O		
AR12038230XBTP (R6)	120 mm x 120 mm x 38 mm	85-256 VAC 50/60 Hz	10/8 (6.5) W	3000 RPM	228 m³/hr	10.67 mmH2O	47 db(A)	70,000 hrs @ 40 °C
	4-23/32" X 4-23/32" X 1-1/2"				134 CFM	0.42 inchH2O		

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