

ARIELTECH®

FANTEC SERIES Axial FAN



Certificates

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



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 m³/hr to 2200 m³/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



Technical Data

Model No.	Outline Dimension	Rated Voltage	Power Consumption	Rotating Speed	Max. Air Flow _{Fr}	Max. Static Pressure	Noise Level	Durability
AC Centrifugal Fans, backward curved blades - 115 V and 230 V							53/55 db(A)	70,000 at 25 °C
ARC225C115XBTP	ø 225 mm X 99 mm	100-0 VAC 50/60 Hz	40/45 W	1450/1750 RPM	595/678 m ³ /hr	13.97/19.81 mmH2O	53/55 db(A)	70,000 at 25 °C
	ø 8.8" X 3.9"				350/400 CFM	0.55/0.78 InchH2O		
ARC225C230XBTP	ø 225 mm X 99 mm	200 240 VAC 50/60 Hz	40/45 W	1450/1750 RPM	595/678 m ³ /hr	13.97/19.81 mmH2O	70/73 db(A)	70,000 at 25 °C
	ø 8.8" X 3.9"				350/400 CFM	0.55/0.78 InchH2O		
ARC225S115XBTP	ø 225 mm X 99 mm	100-120 VAC 50/60 Hz	109/145 W	2500/2600 RPM	1086/1086 m ³ /hr	50.8/63.5 mmH2O	70/73 db(A)	70,000 at 25 °C
	ø 8.8" X 3.9"				640/640 CFM	2.0/2.5 InchH2O		
ARC225S230XBTP	ø 225 mm X 99 mm	200 240 VAC 50/60 Hz	109/145 W	2500/2600 RPM	1086/1086 m ³ /hr	50.8/63.5 mmH2O	70/73 db(A)	70,000 at 25 °C
	ø 8.8" X 3.9"				640/640 CFM	2.0/2.5 InchH2O		
AC-DC Energy Saving EC Fans							68 db(A)	70,000 hrs @ 40 °C
ARE17251115XBTP	172 mm X 150 mm X 51 mm	100-120 V	26/35 W ± 10%	5000 RPM ± 10%	612 m ³ /hr	41.15 mmH2O	68 db(A)	70,000 hrs @ 40 °C
	6-49/64" X 5-29/32" X 2-1/64"				360 CFM	1.62 inchH2O		
ARE17251230XBTP	172 mm X 150 mm X 51 mm	200 240 V	26/35 W ± 10%	5000 RPM ± 10%	612 m ³ /hr	41.15 mmH2O	68 db(A)	70,000 hrs @ 40 °C
	6-49/64" X 5-29/32" X 2-1/64"				360 CFM	1.62 inchH2O		
DC Brushless Fans - 12 V							33 db(A)	60,000 hrs @ 45 °C
AR802512XBTP	80 mm X 80 mm X 38 mm	8-13.8 VDC	2.2 W	3300 RPM ± 10%	66 m ³ /hr	5.84 mmH2O	54 db(A)	65,000 hrs @ 45 °C
	3-5/32" X 3-5/32" X 1"				40 CFM	0.23 inchH2O		
AR1203812XBTP	120 mm x 120 mm x 38 mm	8-13.8 VDC	10.6 (Max. 17) W	4200 RPM ± 10%	306 m ³ /hr	24.89 mmH2O	61.5 db(A)	90,000 hrs @ 35 °C
	4-23/32" X 4-23/32" X 1-1/2"				180 CFM	0.988 inchH2O		
AR1725112XBTP	172 mm X 150 mm X 51 mm	8-13.8 VDC	23 W ± 10%	4000 RPM ± 10%	534 m ³ /hr	23.11 mmH2O	60 db(A)	90,000 hrs @ 35 °C
	6-49/64" X 5-29/32" X 2-1/64"				315 CFM	0.91 inchH2O		
AR25489S12XBTP	ø 254 X 89 mm	9-13 VDC	64.8 W ± 10%	2400 RPM ± 10%	1,410 m ³ /hr	19.81 mmH2O	60 db(A)	90,000 hrs @ 35 °C
	ø 10" X 3-1/2"				830 CFM	0.78 inchH2O		
DC Brushless Fans - 24 V							33 db(A)	60,000 hrs @ 45 °C
AR802524XBTP	80 mm X 80 mm X 38 mm	12-27.6 VDC	2.9 W	3300 RPM ± 10%	66 m ³ /hr	5.84 mmH2O	55 db(A)	65,000 hrs @ 45 °C
	3-5/32" X 3-5/32" X 1"				40 CFM	0.23 inchH2O		
AR1203824XBTP	120 mm x 120 mm x 38 mm	15-26VDC	10.3 (Max. 22) W	4200 RPM ± 10%	306 m ³ /hr	24.89 mmH2O	61.5 db(A)	90,000 hrs @ 35 °C
	4-23/32" X 4-23/32" X 1-1/2"				180 CFM	0.988 inchH2O		
AR1725124XBTP	172 mm X 150 mm X 51 mm	15-27.6 VDC	24W ± 10%	4000 RPM ± 10%	534 m ³ /hr	23.11 mmH2O	62 db(A)	90,000 hrs @ 35 °C
	6-49/64" X 5-29/32" X 2-1/64"				315 CFM	0.91 inchH2O		
AR25489S24XBTP	ø 254 X 89 mm	16-27 VDC	63.6 W ± 10%	2500 RPM ± 10%	1,446 m ³ /hr	21.08 mmH2O	62 db(A)	90,000 hrs @ 35 °C
	ø 10" X 3-1/2"				850 CFM	0.83 inchH2O		
DC Brushless Fans - 24 V - (with output relay)							48 db(A)	65,000 hrs @ 45 °C
AR1203824XBTP (R4)	120 mm x 120 mm x 38 mm	15-26VDC	8.4 (Max. 14.8) W	3200 RPM ± 10%	234 m ³ /hr	14.22 mmH2O	33 db(A)	60,000 hrs @ 45 °C
	4-23/32" X 4-23/32" X 1-1/2"				136 CFM	0.56 inchH2O		
DC Brushless Fans - 48 V							33 db(A)	60,000 hrs @ 45 °C
AR802548XBTP	80 mm X 80 mm X 38 mm	24-56 VDC	3.8 W	3300 RPM ± 10%	66 m ³ /hr	5.84 mmH2O	56 db(A)	65,000 hrs @ 45 °C
	3-5/32" X 3-5/32" X 1"				40 CFM	0.23 inchH2O		
AR1203848XBTP	120 mm x 120 mm x 38 mm	28-55 VDC	10.6 (Max. 20) W	4200 RPM ± 10%	306 m ³ /hr	24.89 mmH2O	61.5 db(A)	90,000 hrs @ 35 °C
	4-23/32" X 4-23/32" X 1-1/2"				180 CFM	0.988 inchH2O		
AR1725148XBTP	172 mm X 150 mm X 51 mm	22-56 VDC	23.5 W ± 10%	4000 RPM ± 10%	534 m ³ /hr	23.11 mmH2O	62 db(A)	90,000 hrs @ 35 °C
	6-49/64" X 5-29/32" X 2-1/64"				315 CFM	0.91 inchH2O		
AR25489S48XBTP	ø 254 X 89 mm	24-53 VDC	62.4 W ± 10%	2500 RPM ± 10%	1,218.6 m ³ /hr	21.08 mmH2O	62 db(A)	90,000 hrs @ 35 °C
	ø 10" X 3-1/2"				718 CFM	0.83 inchH2O		

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

Model No.	Outline Dimension	Rated Voltage	Power Consumption	Rotating Speed	Max. Air Flow	Max. Static Pressure	Noise Level	Durability
AC Axial Fans - 115 V								
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	0.80/0.74 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		
AC Axial Fans - 230 V								
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	0.80/0.74 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		
AC Axial Fans - 460 V								
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		
AC Axial Fans - 24 V - Metal Impeller								
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		
AC Axial Fans - with dry contact (with output relay) - 115 V & 230 V								
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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