



# Airscrew 100+ Airmax<sup>®</sup> Fans

## General Mixed Flow Information

The characteristics of a Mixed Flow Fan combines the high flow of an Axial fan with the high pressure of a Centrifugal. It provides a solution where combined high pressure and flows are a requirement. The geometry of a Mixed Flow Fan provides a negligible stall characteristic and is ideally suited to applications such as cooling densely packed electronic equipment, or systems having high or variable resistance such as filters. Also, because of the impeller geometry, Mixed

Flow Fans produce less noise compared to Axial fans, making them ideal for use in crew or passenger areas.

The Airscrew range of Mixed Flow Fans comprises 400Hz, 1 or 3-phase induction motor drives as well as 28V DC or 270V DC brushless motor drives. The motor is integral with the fan to provide good heat transfer, optimum weight and size together with high reliability.

## 108 Airmax<sup>®</sup>



\*Individual Performance Curve Characteristics Available Upon Request

### General

- Airflows up to 678 CFM (320l/s)
- Pressures up to 36 IWG (9kPa)
- Physical Envelope: 6.89" x Ø5.51" (175mm x Ø140mm)
- Weight: 10.34lbs. (4.69Kg)
- Custom mounting arrangements
- Thermal Sensor
- Speed Sensor
- Meets the requirements of Mil Specs
- Flying Leads or Mil Spec Connector

### Materials and Finishes

- Aluminum alloy impeller and casing— usually anodized dyed black
- Stainless steel shaft
- High precision, double shielded, stainless steel ball bearings (ABEC Class T)— maintenance free
- Stator wound to class H insulation
- Paint or anodize finishes

## Options/Accessories

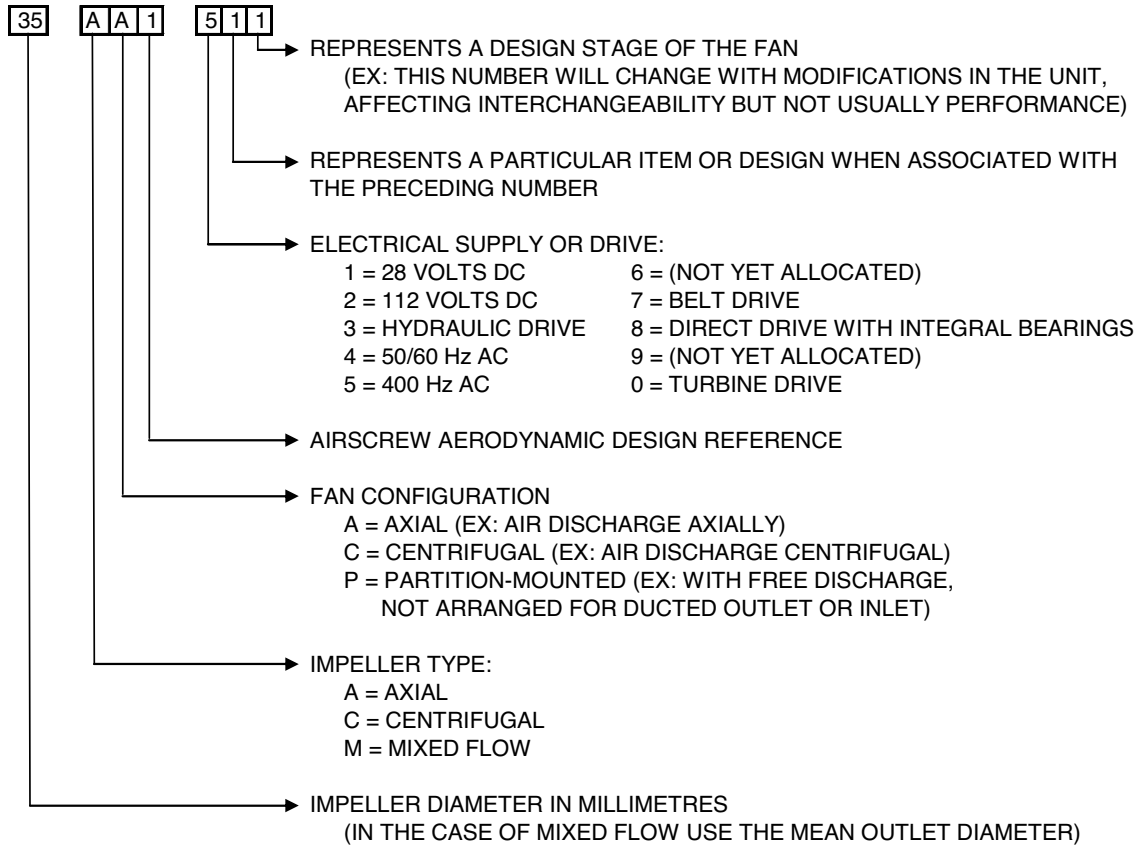
- Speed Sensors
- Thermal Sensors
- Start-up Health Monitoring
- Ceramic Bearings
- Finger Guards

Specifications subject to change without notice



### Unit Description Key

The unit description key is for reference only and should not be confused with a part number. While most units are custom configurations, not all variations of the key shown below are possible. Please contact the Application Engineering department for more information regarding possible custom configurations.



EXAMPLE: 35, AA1, 551  
WHERE: 35 = 35MM IMPELLER DIAMETER, A = AXIAL IMPELLER, A = AIR DISCHARGE AXIALLY, 1 = AERODYNAMIC DESIGN REFERENCE, 5 = 400 Hz AC LINE ELECTRICAL SUPPLY, 1 = FIRST INSTALLATION DESIGN STAGE

### Ordering Information

When ordering, please specify the specific Airscrew part number listed on the model table below. Further ordering information, based on the configuration and motor series, may be obtained by contacting customer service. Please refer to the Unit Description Key explanation above.



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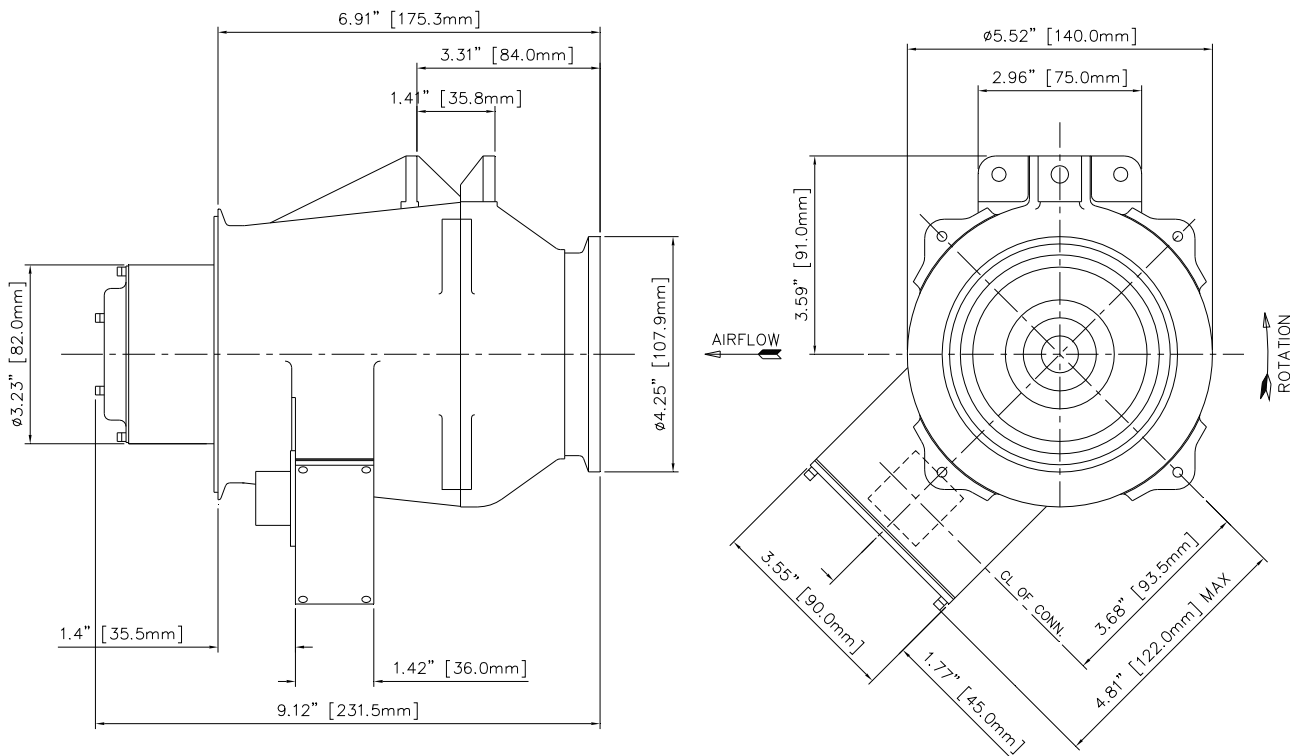
## Standard Product Offering of AC Line Powered Models

Part #	Prod Description	FLOW (CFM)	Max Pressure (IWG)	Nom RPM	Nom Watts	Line Amps (A)	Max Amb (C)	Weight (lbs)	Phase	Hz	Volts	Airflow Source Data
040191000	7473	576.13	31.26	22000	1625.00	5.88	70	8.00	3	400	200	AS001-10
040224000	105-MA1-513	512.77	22.89	22000	1880.00	7	70	40.91	3	400	200	AS005-13
040220000	105-MA1-514	582.7	28.93	22000	2260.00	8	70	10.50	3	400	200	AS005-3
040272000	105-MA1-515	582.7	30.53	22600	2250.00	8	70	9.70	3	420	200	AS019-7
040192000	10427 MOD2	726378	37.76	23000	2710.00	10	70	10.30	3	400	200	AS001-7
040273000	10807	2174	20.18	11000	5200.00	17.9	70	17.20	3	400	200	AS004-6

## Standard Product Offering of DC Line Powered Models

Part #	Prod Description	FLOW (CFM)	Max Pressure (IWG)	Nom RPM	Nom Watts	Line Amps (A)	Max Amb (C)	Weight (lbs)	Volts	Airflow Source Data
018086000	6864	433.93	12.73	11000	543.00	19.4	70	10.36	28	AS004-15

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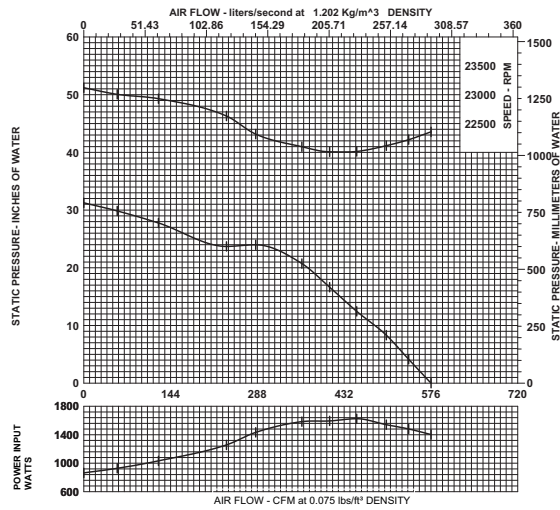
\*Part Number Specific Drawings Available Upon Request



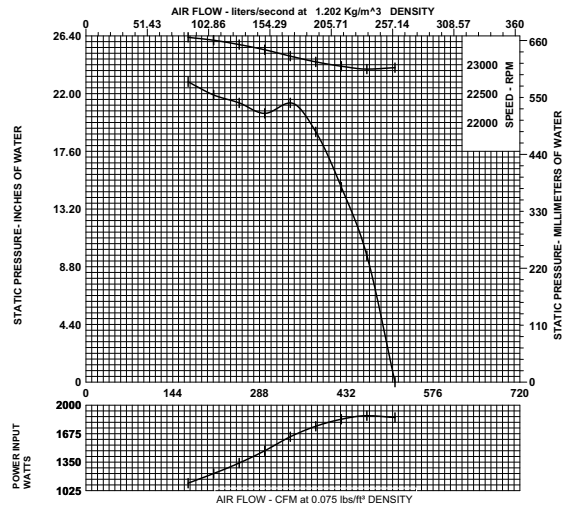
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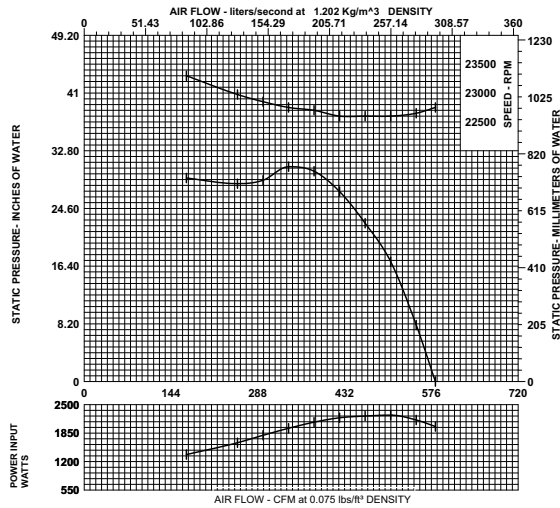
P/N 040191000 7473 AS001-10



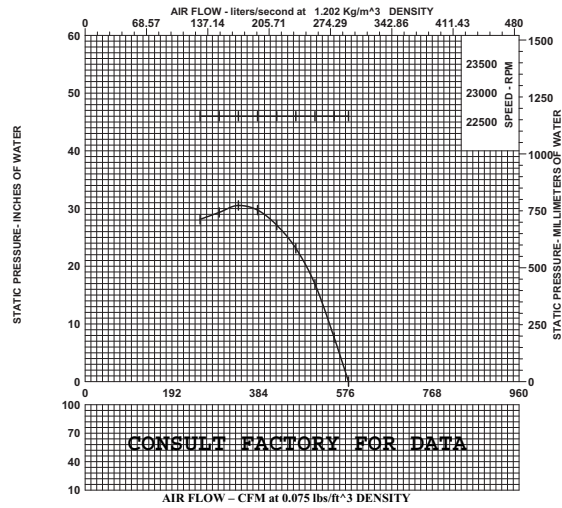
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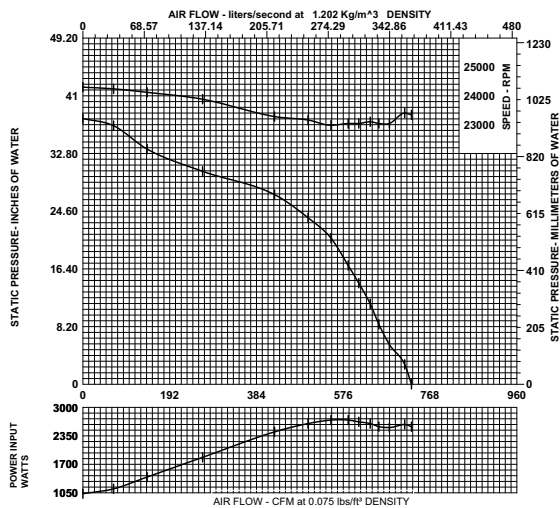
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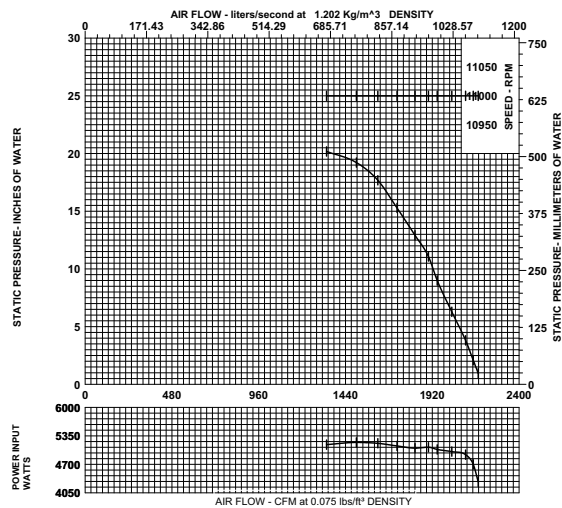
P/N 040272000 105-MA1-515 AS019-7



P/N 040192000 10427 MOD2 AS001-7



P/N 040273000 10807 AS004-6



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North America  
T: +1 845-679-1361  
F: +1 845-679-1870

United Kingdom  
T: +44 (0) 1932 765822  
F: +44 (0) 1932 761098

Europe  
T: +49 8145 951767  
F: +49 8145 951768

Asia Pacific  
T: +65 6484 2388  
F: +65 6481 6588

Contact E-mail: [mlinqury@ametek.com](mailto:mlinqury@ametek.com)

[www.ametekaerodefense.com](http://www.ametekaerodefense.com)



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P/N 018086000 6864 AS004-15

