



Rotron / Airscrew



# Airscrew 95 Airmax<sup>®</sup> Mixed Flow Fans

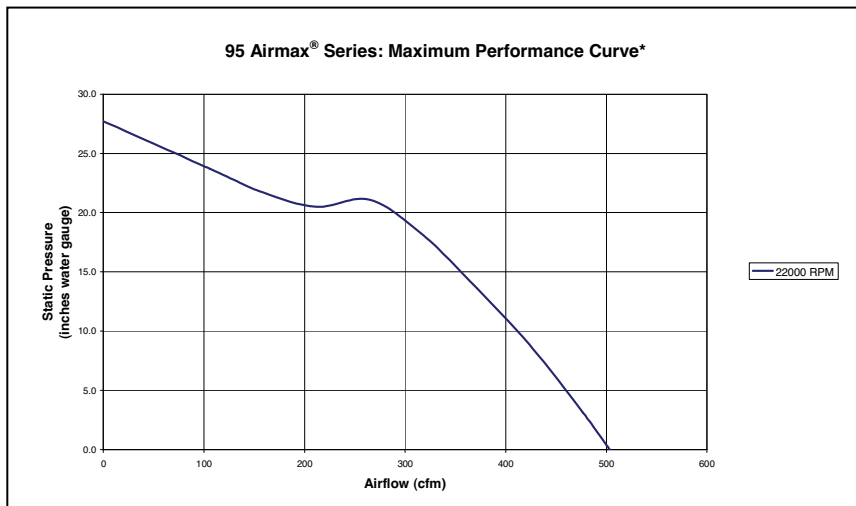
## General Mixed Flow Information

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 drive, 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.

## 95 Airmax<sup>®</sup>



A 95 Airmax<sup>®</sup> Fan

\*Individual Performance Curve Characteristics Available Upon Request

### General

- Physical Envelope: 4.52" x Ø4.72" (115mm x Ø120mm)
- Weight: 6.22lbs. (2.82Kg)
- Airflows up to 466 CFM (220l/s)
- Static Pressures up to 24 IWG (6.0kPa)
- Custom Mounting arrangements
- Twin Speed Options
- 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

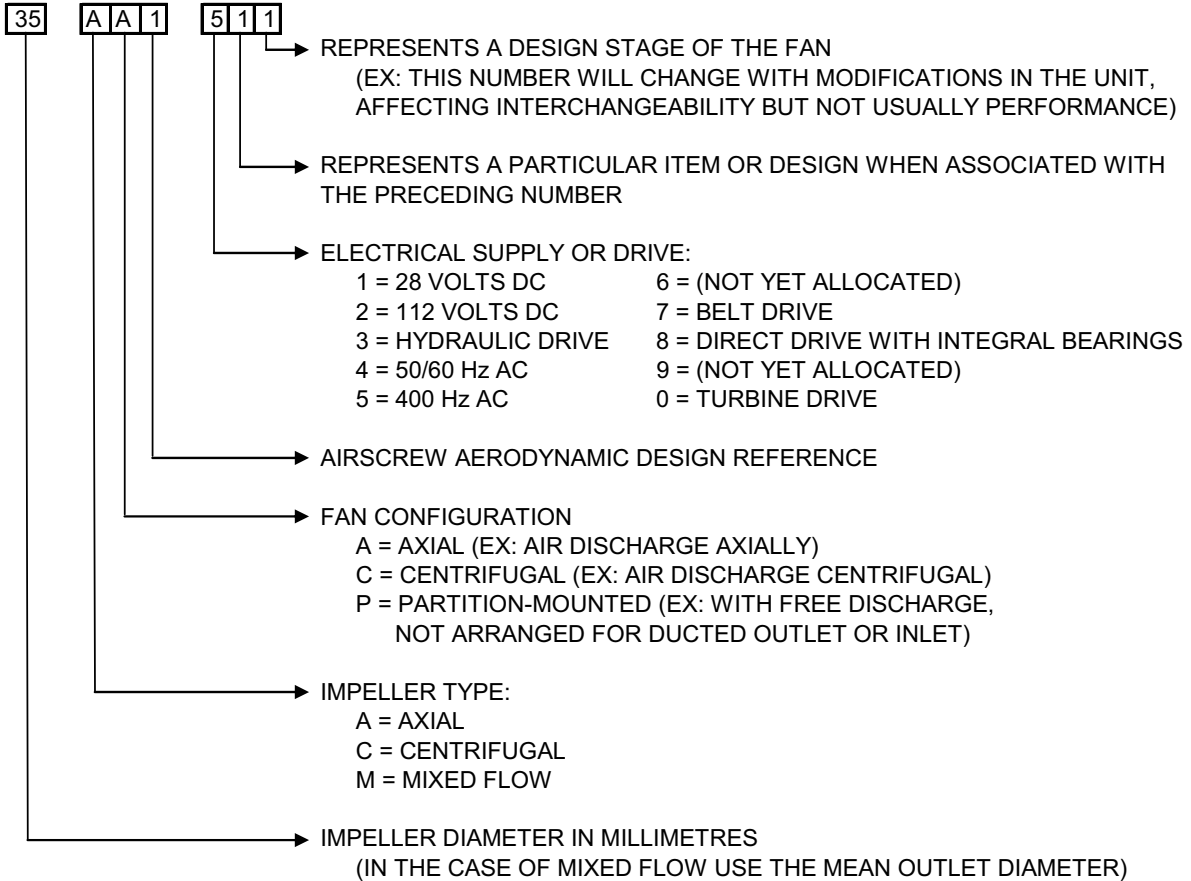
- Twin Speed
- Speed Sensors
- Thermal Sensors
- Ceramic Bearings
- Finger Guards
- Helicoil Inserts

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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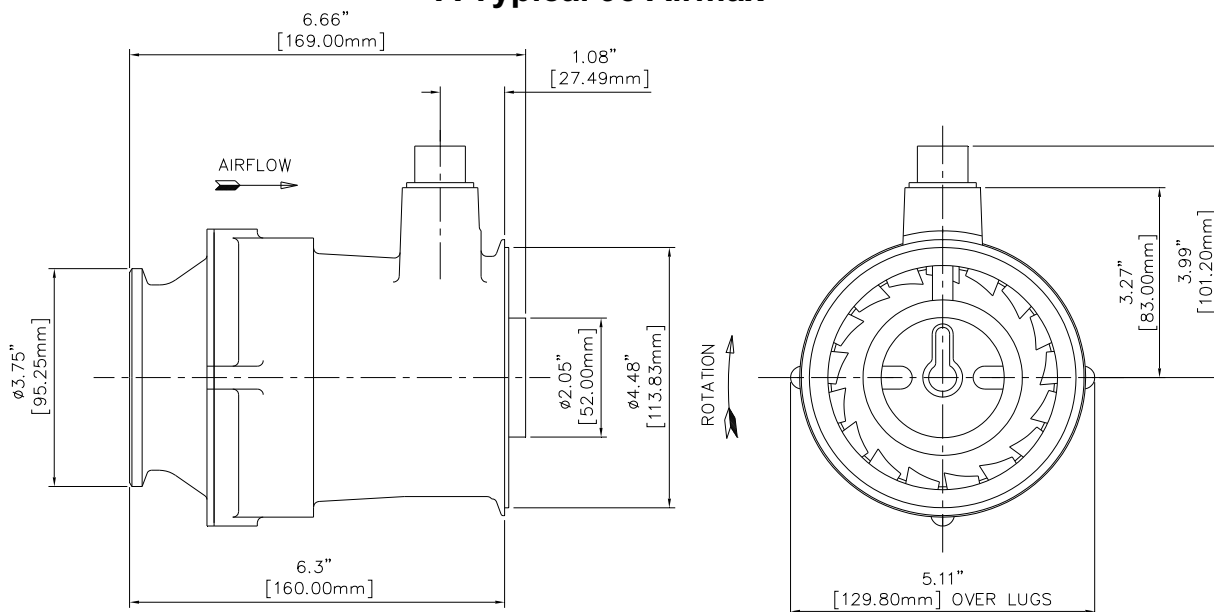
## Standard Product Offering of AC Line Powered Models

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
040268000	9295	510.51	29.45	22000	1371.00	4.65	70	6.02	3	400	200	AS004-17
040187000	10448	501.18	24.31	22000	1432.00	4.85	90	6.7	3	400	200	AS001-6
040186000	95-MA1-541	466.16	24.51	22000	1190.00	4.36	70	6	3	400	200	AS001-4
040216000	95-MA1-552	454.93	28	22000	1240.00	4.6	70	6.6	3	400	200	AS004-25
040270000	95-MA1-555	458.95	21.53	22000	1224	4.3	70	6.6	3	400	200	AS018-1
040204000	95-MA1-556	459.8	23.21	22000	1250.00	4.45	70	6.6	3	400	200	AS004-9
040222000	95-MA1-557	436.58	21.28	23000	1186.00	4.16	70	6.6	3	400	200	AS005-5
040271000	95-MA1-558	313.6	23.3	23000	840	3.5	70	5.7	3	400	200	AS018-4
040213000	95-MA2-511	503.24	27.72	22000	1420.00	4.7	70	6.21	3	400	200	AS004-20
040214000	95-MA2-521	510.49	20.26	22000	1430.00	5.1	70	6.21	3	400	200	AS004-22

## 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
018075000	95-MA1-111	233.21	5.75	12000	250	8.9	70	5.73	28	AS018-3

### A Typical 95 Airmax®



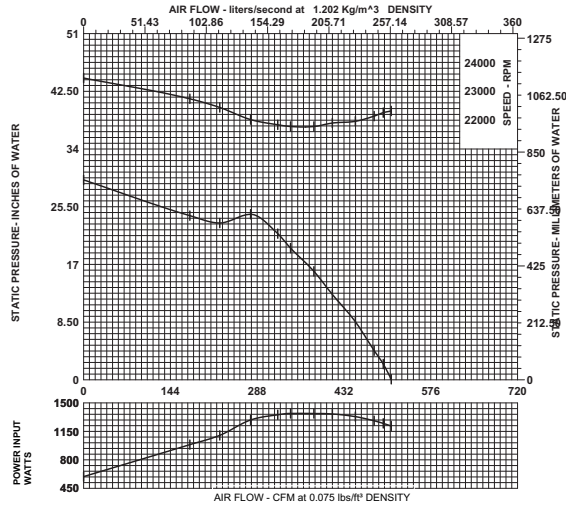
\*Part Number Specific Drawings Available Upon Request



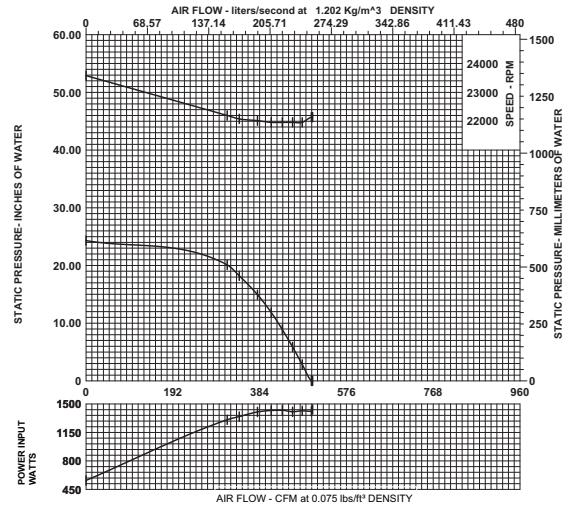
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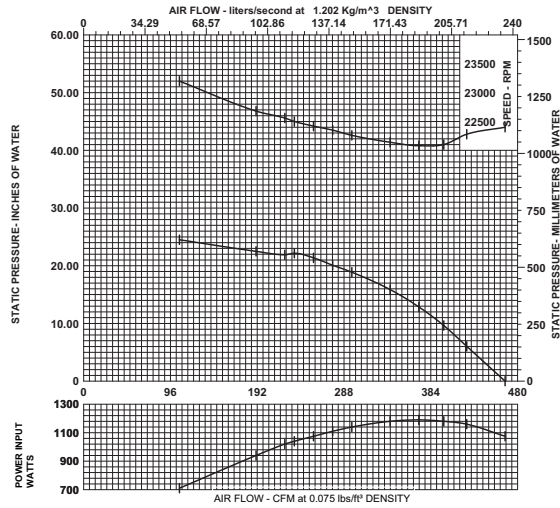
P/N 040268000 9295 AS004-17



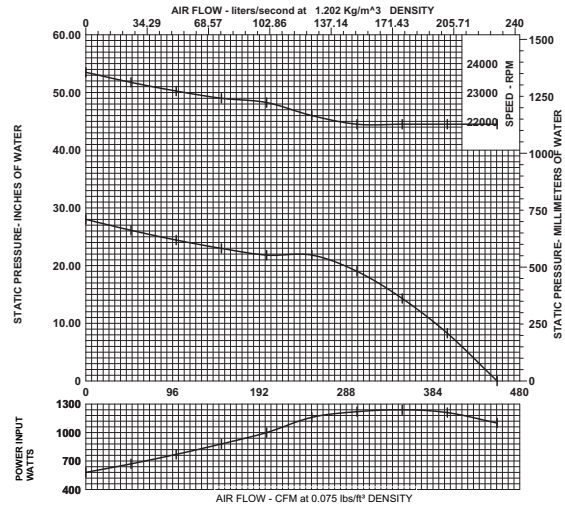
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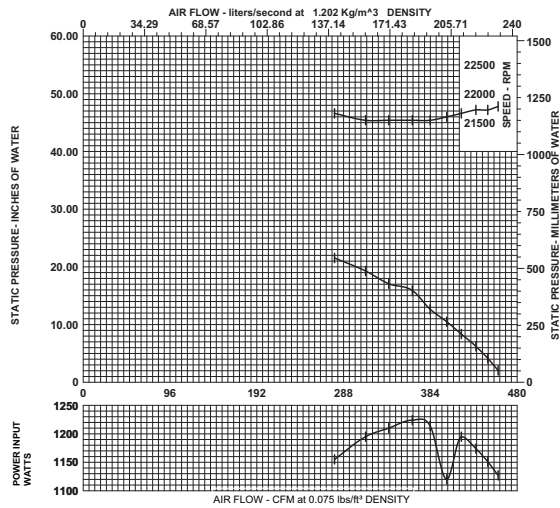
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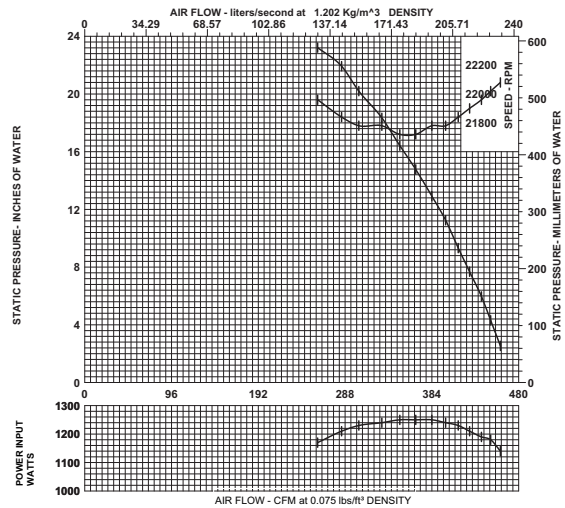
P/N 040216000 95-MA1-552 AS004-25



P/N 040270000 95-MA1-555 AS018-1



P/N 040204000 95-MA1-556 AS004-9



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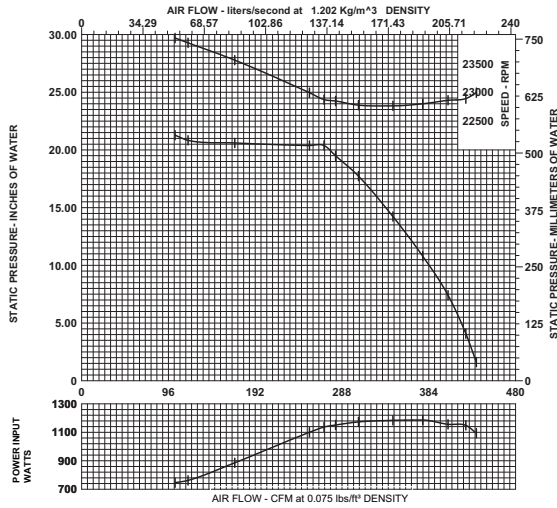
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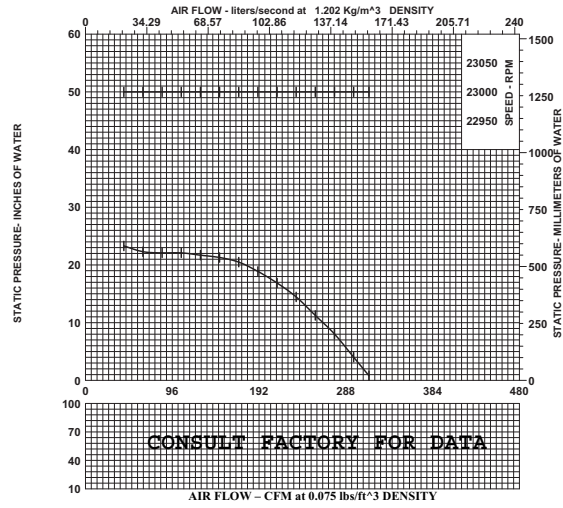
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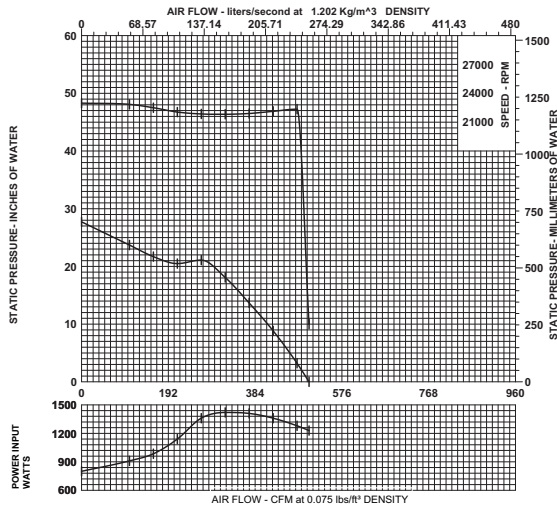
P/N 040222000 95-MA1-557 AS005-5



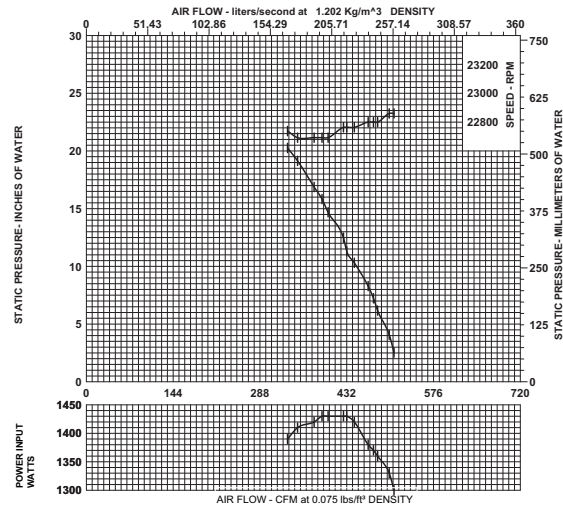
P/N 040271000 95-MA1-558 AS018-4



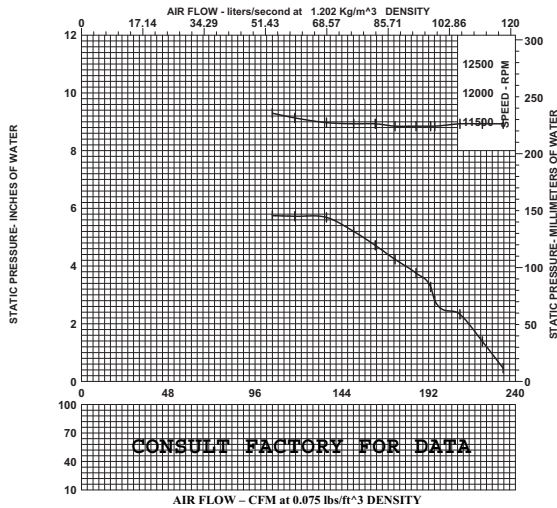
P/N 040213000 95-MA2-511 AS004-20



P/N 040214000 95-MA2-521 AS004-22



P/N 018075000 95-MA1-111 AS018-3



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NOTES:

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