



Rotron / Airscrew



# Airscrew Hydraulic Drive Fans

## General Hydraulic Drive Information

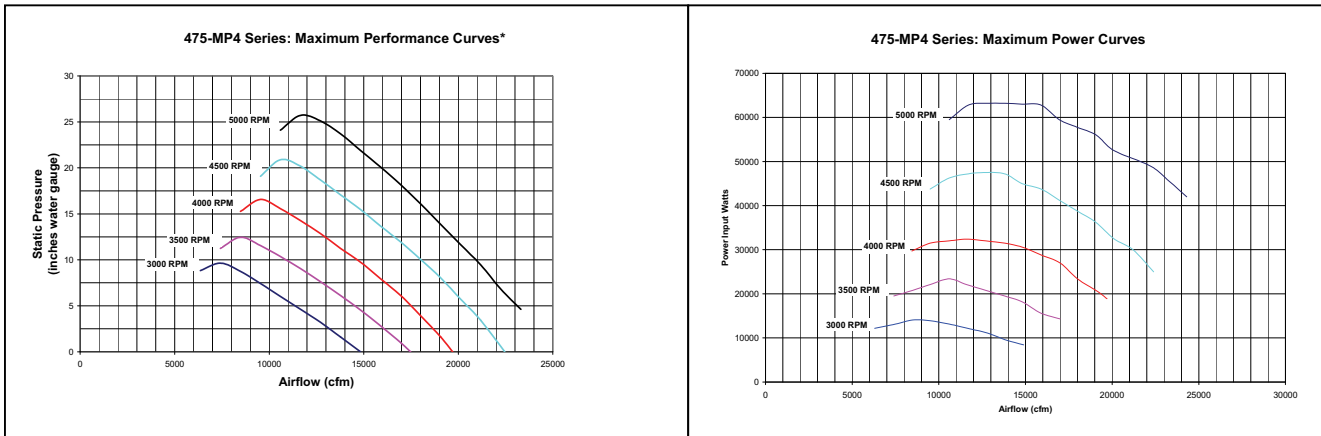
Designed for high performance with low power consumption, the Airscrew Hydraulically driven range of fans have non-stall performance and non-overloading power characteristic, together with low noise emission levels. The backward-inclined impeller blades are particularly suited for use in dusty conditions in that the blades remain clean, thus avoiding loss of efficiency.

Depending on the complexity of the installation, mounting methods can be adapted to suit individual requirements of compact, robust construction and

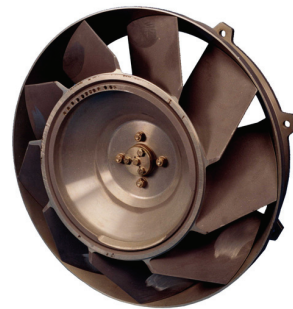
manufactured to meet the requirements of Government defense equipment specifications. These fans are especially suitable for military vehicle engine-cooling applications.

With applications including Main Battle Tanks, Armored Personnel Carriers, Infantry Fighting Vehicles, light tanks, all terrain vehicles, down to 4 x 4 Scout vehicles, there are many thousand of these fans successfully installed either as stand alone units, or as part of Engine Cooling Systems.

## 475-MP4 Hydraulic Drive Fan



\*Individual Performance Curve Characteristics Available Upon Request

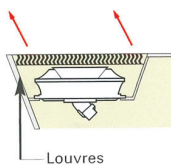


### Materials and Finishes

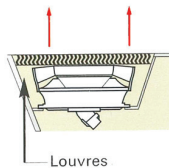
- Main elements manufactured in cast aluminum alloy

## Options/Accessories

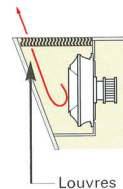
(Orientation Options)



Mixed Flow Discharge



De - Swirling Axial Discharge

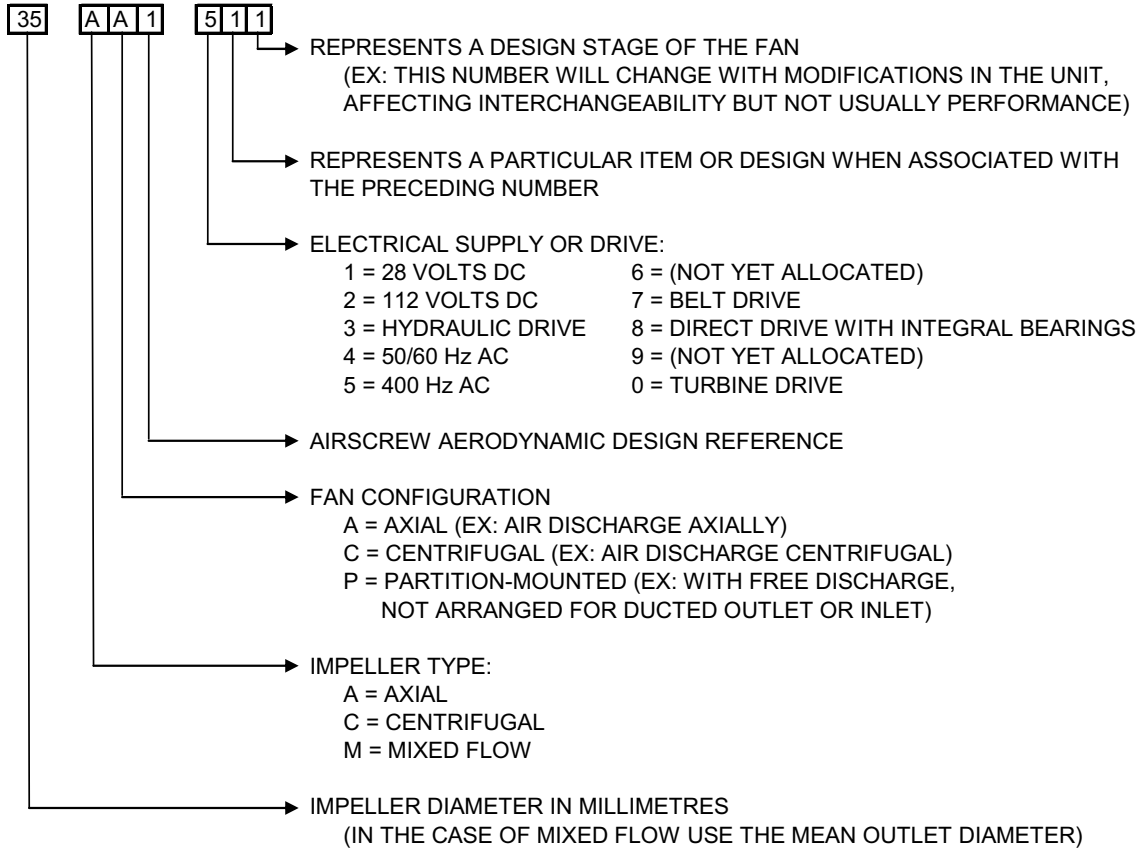


Centrifugal Discharge



### 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

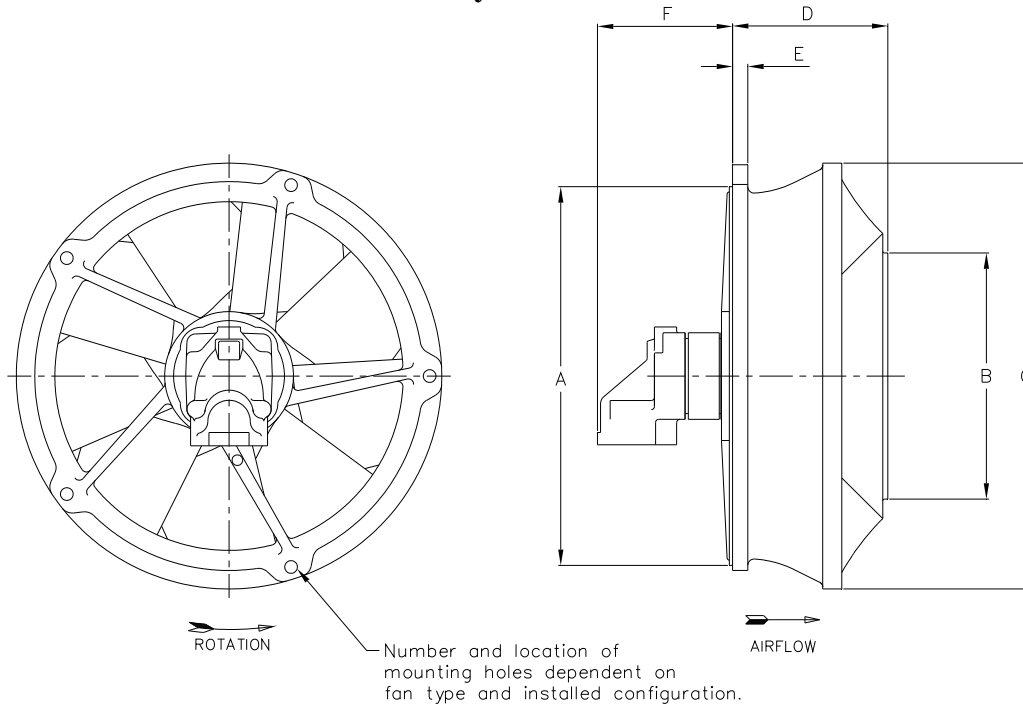
When ordering, please specify the specific Airscrew part number listed on the model table below. Further ordering information, based on the configuration and motor series, may be obtained by contacting customer service. Please refer to the Unit Description Key explanation above.



## Standard Product Offering of AC Line Powered Models

Part #	Prod Description	FLOW (CFM)	Max Pressure (IWG)	Nom RPM	Nom Watts	Max Amb (C)	Weight (lbs)	Airflow Source Data
017033000	305-MP4-331	5339.6	6.43	4000	3650.00	100	39.7	AS010-6
017034000	305-MP4-331	6526.2	10.45	5000	7000.00	100	39.7	AS010-7
017035000	305-MP4-331	8179	15.27	6000	12400.00	100	39.7	AS010-8
017036000	305-MP4-331	9302	20.29	7000	17750.00	100	39.7	AS010-9
017037000	305-MP4-331	10255	25.31	7800	23750.00	100	39.7	AS010-10
017068000	380-MP4-331	7734	5.83	3000	N/A	100	55.1	AS011-6
017069000	380-MP4-331	10489	10.45	4000	10500.00	100	55.1	AS011-7
017070000	380-MP4-331	12925	16.79	5000	21250.00	100	55.1	AS011-8
017071000	380-MP4-331	15680	23.3	6000	36000.00	100	55.1	AS011-9
017072000	380-MP4-331	16316	26.11	6300	42250.00	100	55.1	AS011-10
017158000	475-MP4-333	14832	9.64	3000	14000.00	100	88.2	AS009-11
017159000	475-MP4-333	17480	12.45	3500	22000.00	100	88.2	AS009-12
017160000	475-MP4-333	19705	16.57	4000	33200.00	100	88.2	AS009-13
017161000	475-MP4-333	22460	20.89	4500	47100.00	100	88.2	AS009-14
017162000	475-MP4-333	23307	25.71	5000	64000.00	100	88.2	AS009-15

### 475-MP4 Hydraulic Drive Fan\*



\*Part Number Specific Drawings Available Upon Request



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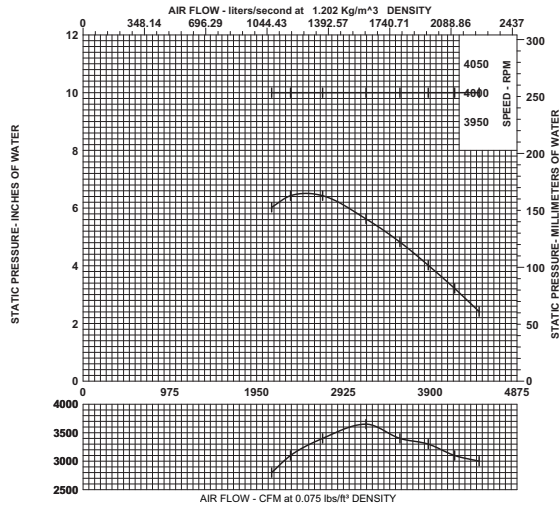
Fan Type	A (diameter)	B (diameter)	C (diameter)	D	E	F	Oil Displacement
305-MP4	14.57In 370.0mm	9.13In 232.0mm	15.94In 405.0mm	5.98In 152.0mm	0.75In 19mm	2.99In	4.8 cm <sup>3</sup> /rev
						76.0mm	10.0 cm <sup>3</sup> /rev
						4.29In	
380-MP4	17.32In 440.0mm	11.42In 290.0mm	19.76In 502.0mm	6.69In 170.0mm	0.51In 13mm	3.70 In	10.0 cm <sup>3</sup> /rev
						94.0mm	12.0 cm <sup>3</sup> /rev
						4.92 In	
						125.0mm	19.0 cm <sup>3</sup> /rev
475-MP4	21.26In 540.0mm	14.25 362.0mm	24.17 614.0mm	7.72In 196.0mm	0.54In 13.6mm	5.63 In	19.0 cm <sup>3</sup> /rev
						143.0mm	23.0 cm <sup>3</sup> /rev
						2.99 In	
						76.0mm	
						5.79 In	30.0 cm <sup>3</sup> /rev
147.0mm							
5.41 In							
137.5mm							



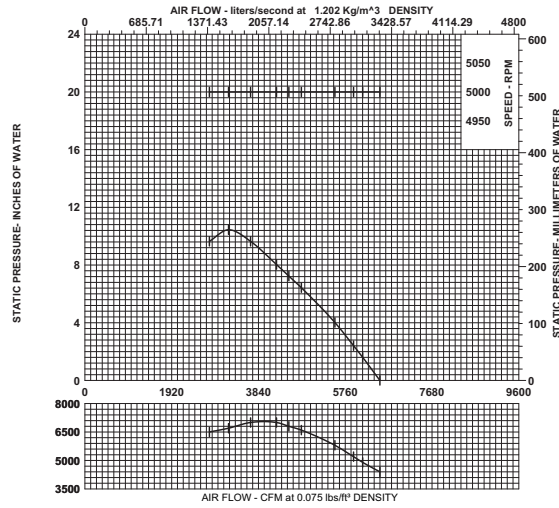
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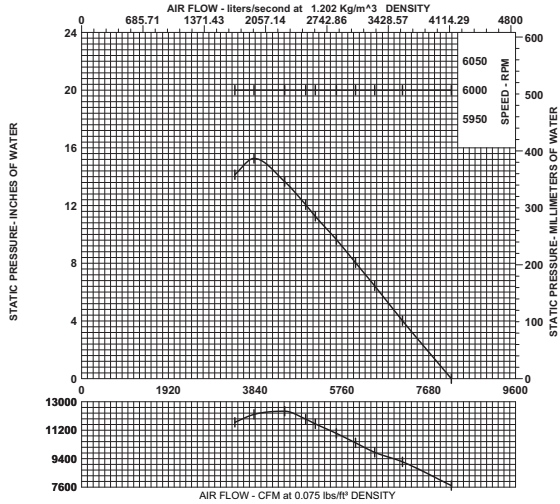
P/N 017033000 305-MP4-331 AS010-6



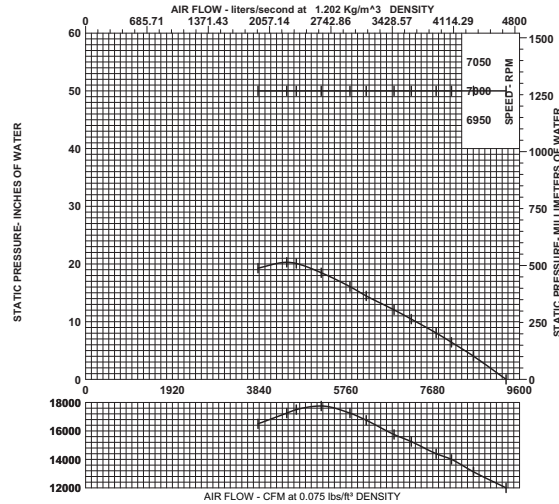
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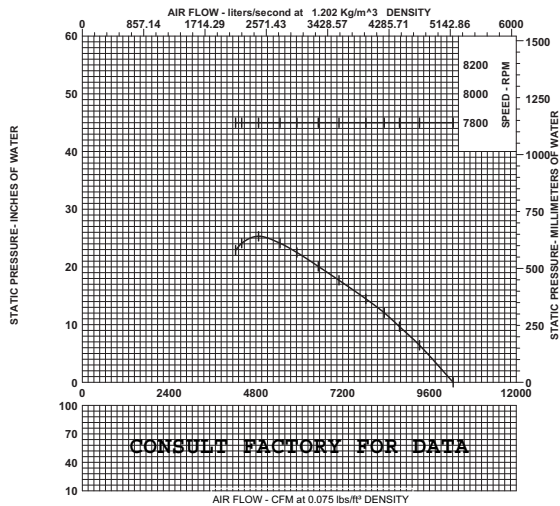
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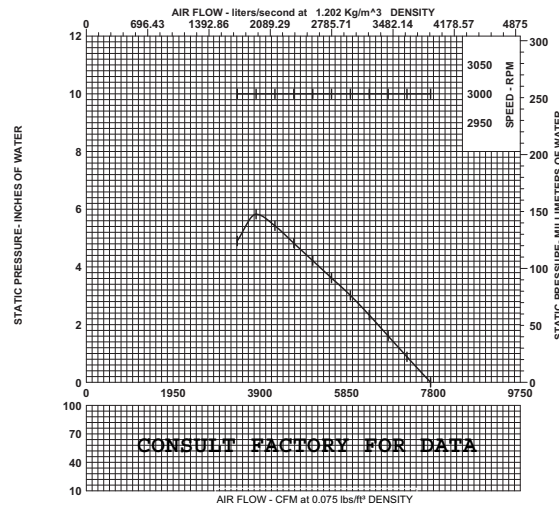
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P/N 017037000 305-MP4-331 AS010-10



P/N 017068000 380-MP4-331 AS011-6



Specifications subject to change without notice

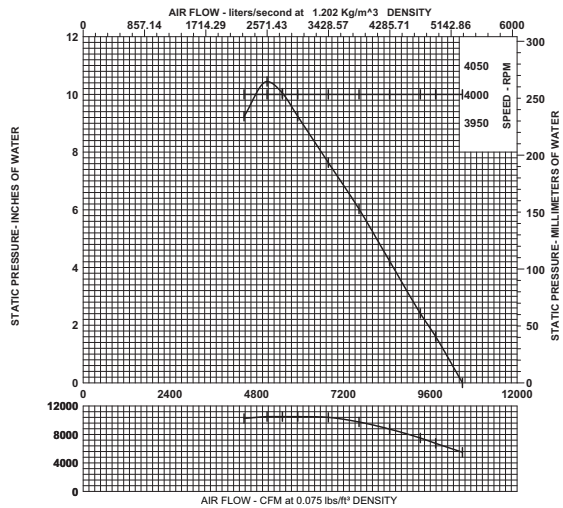




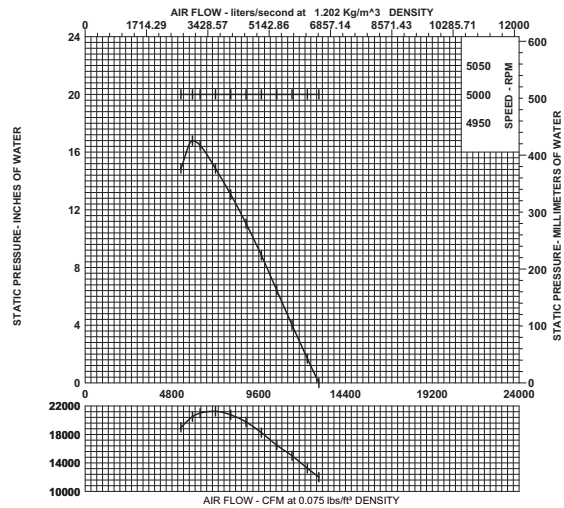
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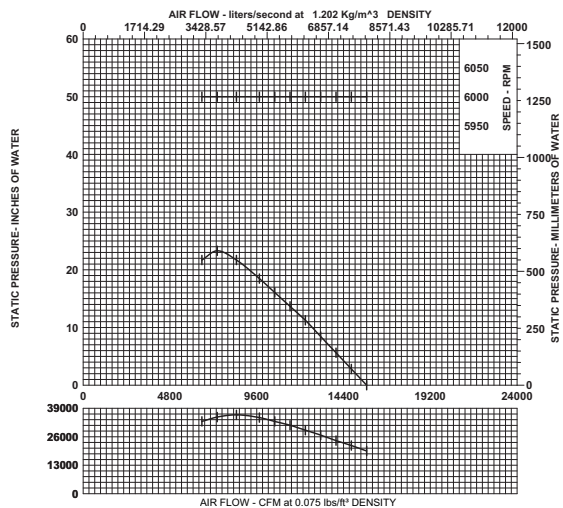
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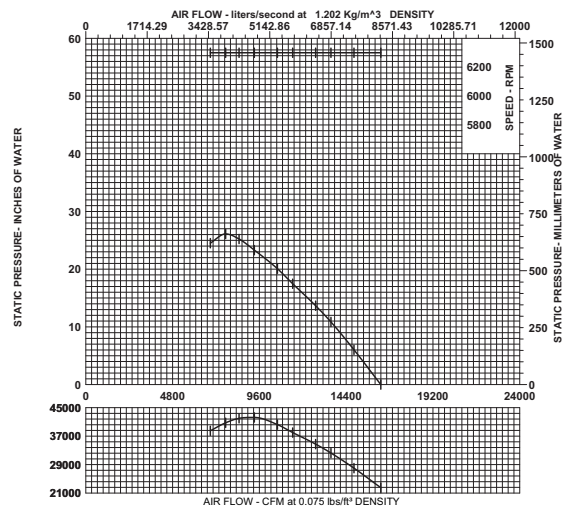
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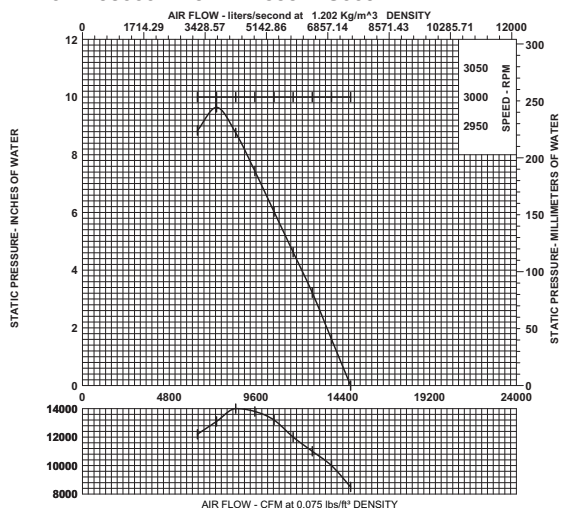
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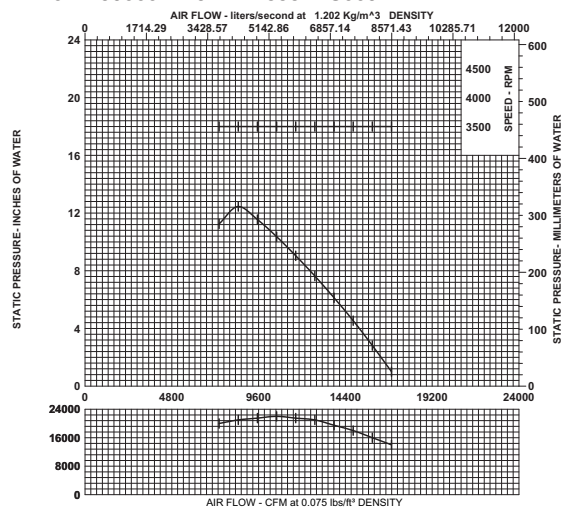
P/N 017072000 380-MP4-331 AS011-10



P/N 017158000 475-MP4-333 AS009-11



P/N 017159000 475-MP4-333 AS009-12



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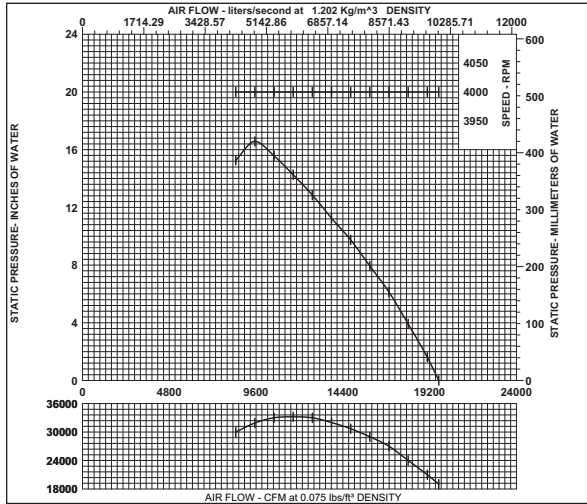
Contact E-mail: [milinquiry@ametek.com](mailto:milinquiry@ametek.com)



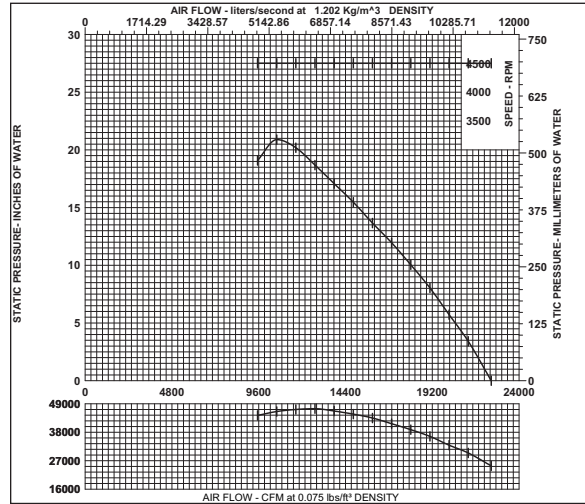
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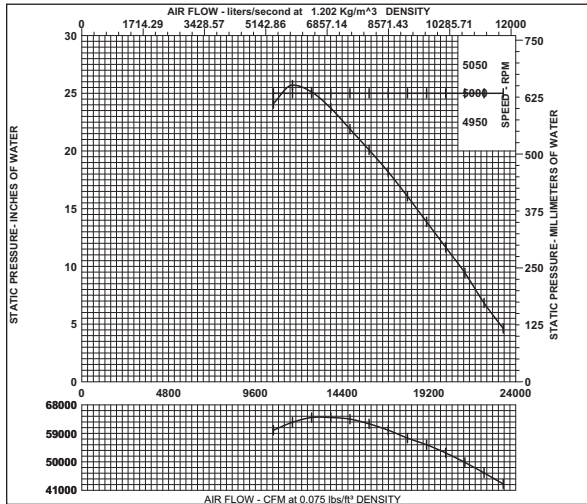
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P/N 017161000 475-MP4-333 AS009-14



P/N 017162000 475-MP4-333 AS009-15



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NOTES:

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