

AMCA Publication 211 Proportionality Dimensions

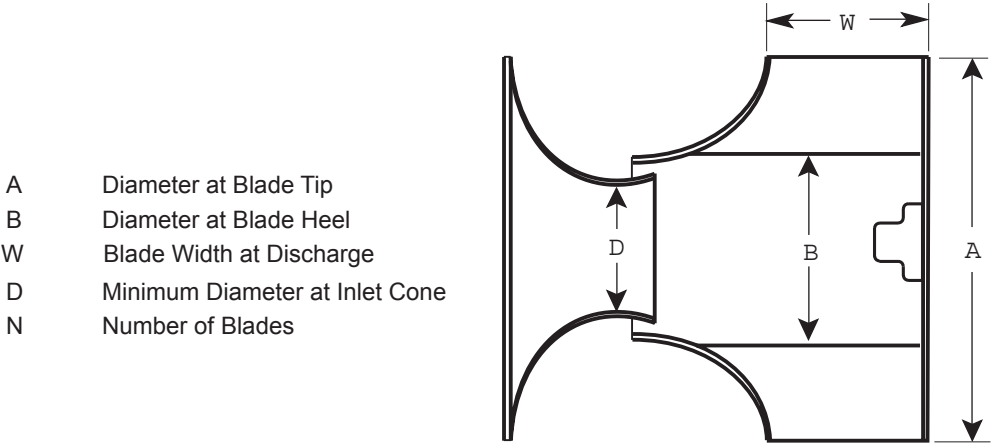


Figure A-1 Backward inclined centrifugal impeller

Model No./Size		Dimensions				
		A	B	W	D	N
1						
2						
3						
4						
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6						
7						
8						
9						
10						
11						
12						

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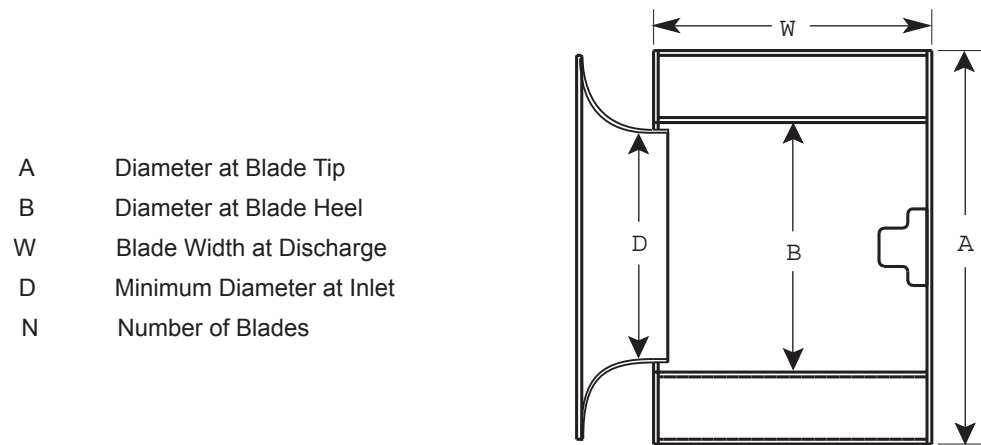


Figure A-2 Forward curved centrifugal impeller

Model No./Size

Dimensions

A

B

W

D

N

1						
2						
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4						
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12						

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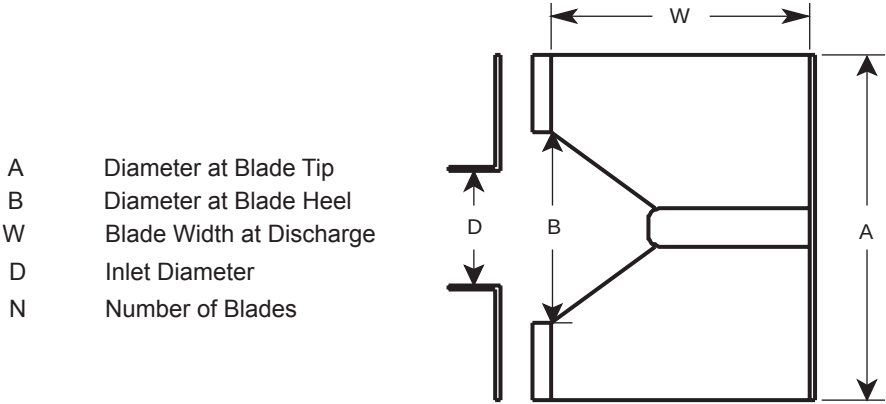


Figure A-3 Radial centrifugal impeller

Model No./Size

Dimensions

	A	B	W	D	N
1					
2					
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8					
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10					
11					
12					

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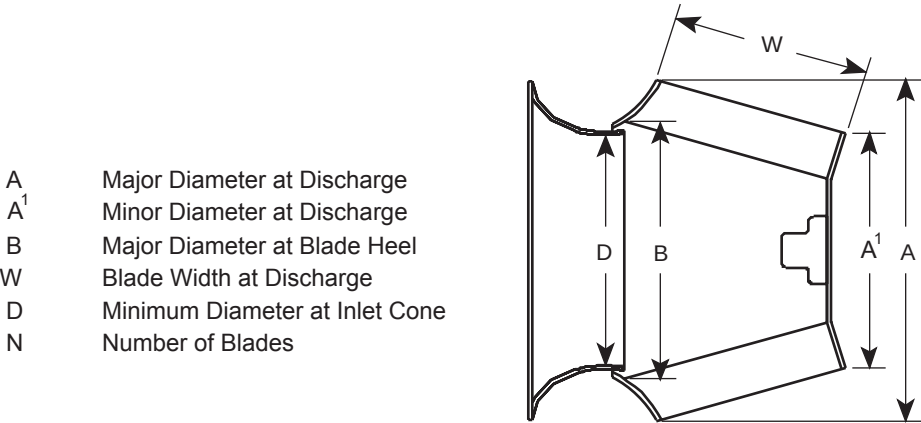


Figure A-4 Mixed flow impeller

Model No./Size

Dimensions

A A¹ B W D N

1						
2						
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5						
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8						
9						
10						
11						
12						

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- A Diameter at Blade Tip
- H Hub Diameter
- G Blade Width at Discharge
- " Pitch Angle at Tip or at a Designated Radius
- N Number of Blades

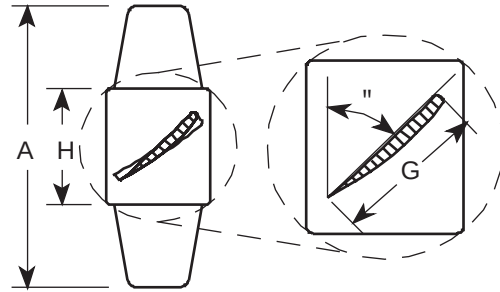


Figure A-5 Vaneaxial propeller

Model No./Size

Dimensions

A

H

G

α

N

1					
2					
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10					
11					
12					

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- A Diameter at Blade Tip
- H Hub Diameter
- G Blade Width at Tip
- " Pitch Angle at Tip or at a Designated Radius
- N Number of Blades

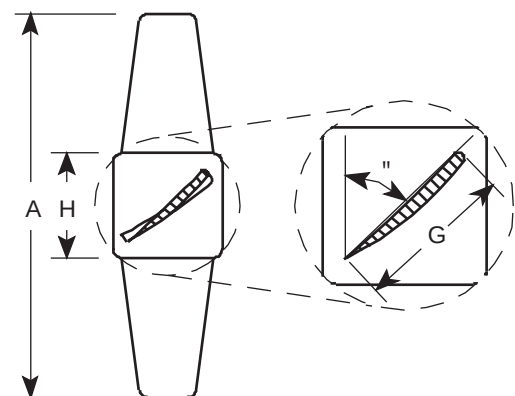


Figure A-6 Tubeaxial propeller

Model No./Size

Dimensions

A H G α N

1					
2					
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11					
12					

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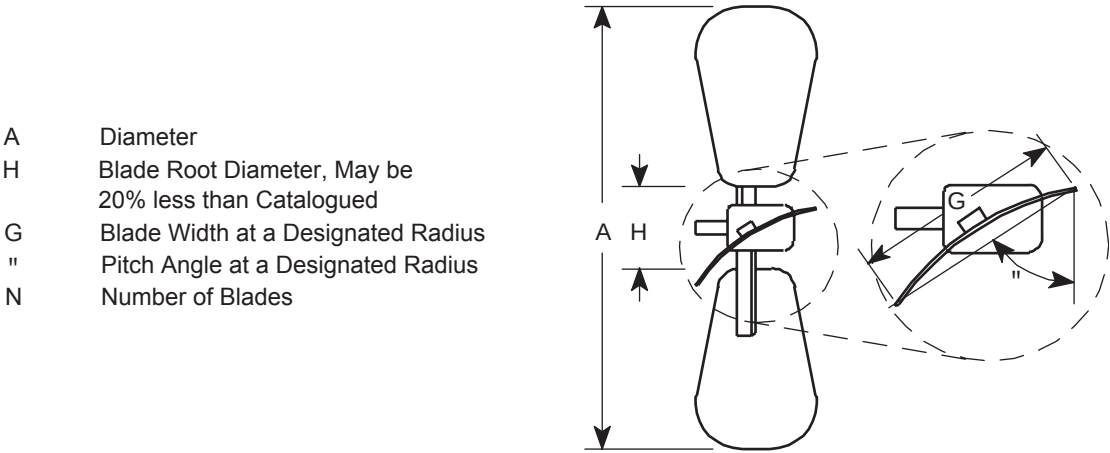


Figure A-7 Fabricated propeller

Model No./Size

Dimensions

A H G α N

1					
2					
3					
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8					
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10					
11					
12					

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Design tip clearance is defined as the difference between the design radius of the impeller and the design internal radius of the fan casing. Measured tip clearance is defined as the average of the tip clearance measurement for all blades taken at eight locations (45° intervals) around the fan casing.

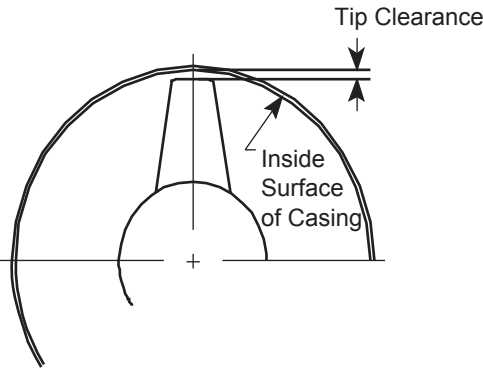


Figure A-8 Tip clearance

Model No./Size

Dimensions

Tip Clearance

1		
2		
3		
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11		
12		

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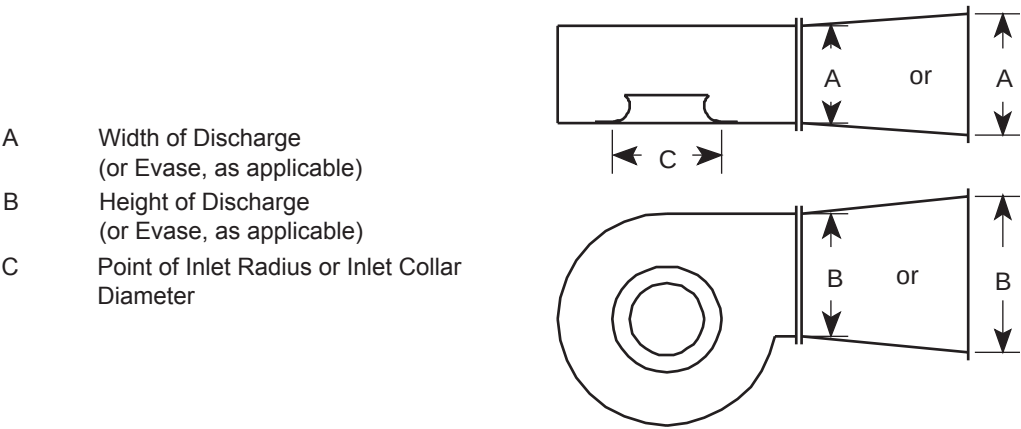


Figure A-9 Centrifugal fan housing SI-DI

Model No./Size

Dimensions

A B C

1				
2				
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11				
12				

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- S Shaft Diameter if Shaft Extends Through Box
- A Inlet Height
- B Inlet Width
- L Inlet Box Length

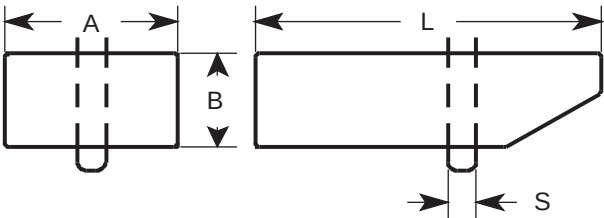


Figure A-10 Inlet box

Model No./Size

Dimensions

	S	A	B	L
1				
2				
3				
4				
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12				

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- Q Shaft Height above Base
- C Inlet Diameter at Tangent Point of Inlet Radius or Inlet Collar Diameter

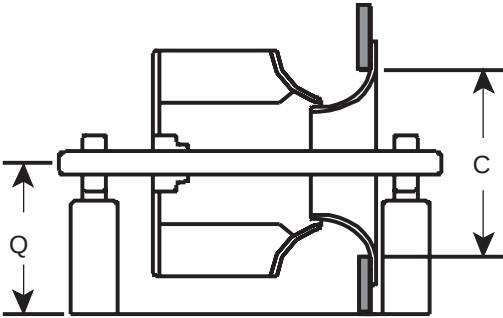


Figure A-11 ARR. 3 plenum fan

	<u>Model No./Size</u>	<u>Dimensions</u>	
		Q	C
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			