



Enviro-Equipment Inc.  
10120 Industrial Drive  
Pineville NC 28134

Stock#: 238

Status: In stock

Dimensions: 25"x22"x28"

Weight: 159 lbs

Description:

**Blower:**

MFG-American fan Co.

Model-AF-15

Serial- 956536-1

Port size-7" in 8" out

**Motor:**

MFG-Baldor

Model- SAD99529

Serial- 56N01-201

CAT#- L5028T

Frame- 184T

Class- B

SF- 1.00

AMB- 40C

HP-3

RPM- 3450

Voltage- 115/230

AMP- 29/14.5

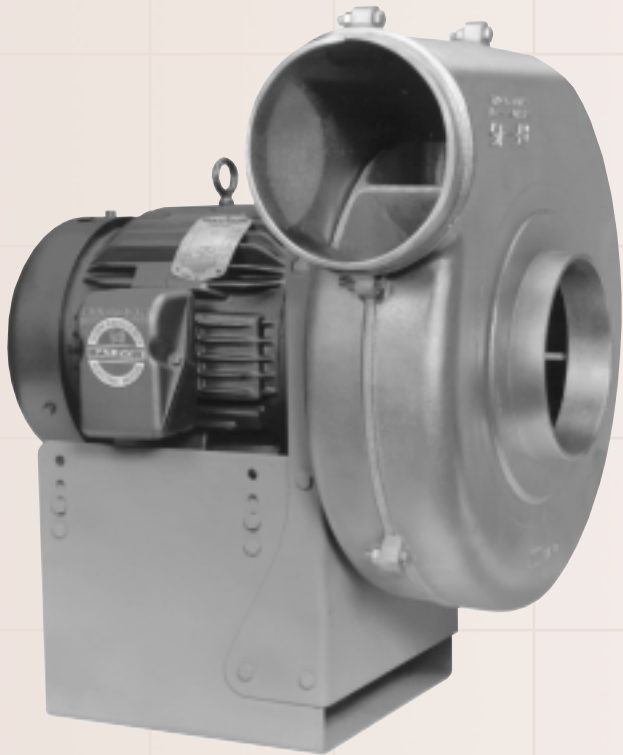
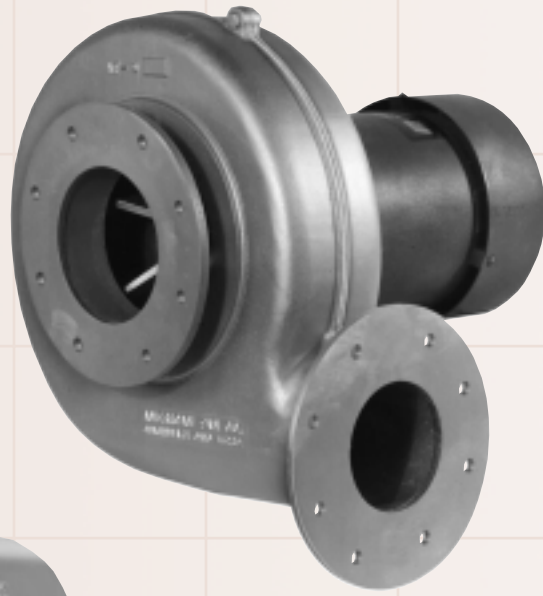
Phase-1

Hz-60

DUTY-Continuous

CODE-G





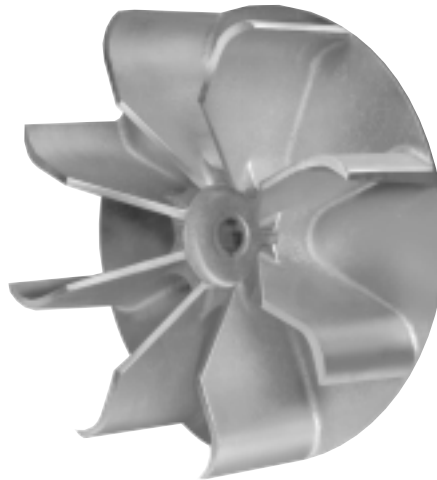
# AF CAST ALUMINUM PRESSURE BLOWERS

## WHEEL TYPES



### Radial Wheel (Code R)

Cast aluminum radial open design for air and light material applications. Also available in welded steel construction.



### Backward Curve Wheel (Code B)

Cast aluminum backward curve blade tip design for clean air applications where lower noise level is a consideration.



### Forward Curve Wheel (Code F)

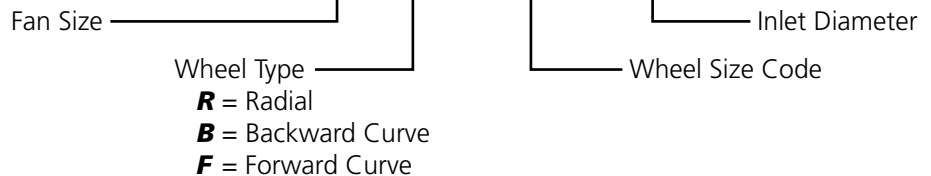
Fabricated aluminum forward curve with cast iron hub design for clean air applications. Has highest performance at a given speed making it ideal for 50 Hz applications where space is a problem.

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## FAN CODES

# AF-12-R13446-7



## TESTING

All fan/wheel/inlet combinations shown in this catalog have each been thoroughly air and sound performance tested at the American Fan Company Test Laboratory.

Air testing was performed per AMCA 210-85 figure 7, installation type B (free inlet, ducted outlet). Sound testing was performed per AMCA 300-85, installation type B. Fans in this catalog **are not** licensed to bear the AMCA certified ratings seal.

## MOTOR SPEEDS

USED FOR DIRECT DRIVE SELECTIONS

BHP Range	60 Hz RPM	50 Hz RPM
up to 2.00	3450	2875
2.01-5.00	3500	2875
5.01 & higher	3515	2900

## FEATURES

Model AF features a rugged, lightweight and rustproof cast aluminum housing making it ideal for demanding industrial applications. Model AF is available in direct or belt drive with a variety of accessories to meet your requirements.

Capacity selections are available up to 4000 CFM and pressure selections up to 20" SP w.g.

- Split housing for maintenance ease
- Even O.D. pipe sizes on inlet and outlet
- Non-sparking cast aluminum housing
- Assortment of wheel sizes to pin-point your performance requirement
- Reliability
- Wheel both statically and dynamically balanced
- Rustproof
- Low initial cost
- Available in arrangements 1,2,4,8 and 9

## APPLICATIONS

- Rubber processing
- Food processing
- Chemical processing
- Fume control
- Dust control
- Combustion air for incinerators, ovens, furnaces, kilns and dryers
- Paper and printing machinery
- Cooling electronic equipment, motors, generators and transformers
- Textile machinery
- Light materials conveying
- Woodworking machinery
- Forced drying

## OPTIONS

- Inlet flange
- Outlet flange
- Housing drain
- Cast Iron housing
- Fabricated steel wheel
- Shaft seal
- Sound attenuator
- Inlet filter
- Corrosive resistant coatings
- Inlet and/or outlet guard
- Fabricated stainless wheel and housing
- Full or half cut-off
- Heat slinger
- Drive guard system

### Inlet Venturi

(shown with inlet guard)

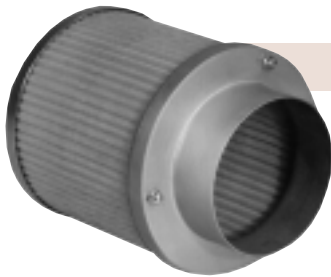
Spun steel venturi provides efficient smooth airflow into fan inlet on non inlet-ducted applications.



### Inlet Guard

(shown welded to inlet venturi)

1" square wire cloth is welded to large end of inlet venturi providing OSHA type guarding with minimal airflow restriction.



### Inlet Filter

Oil wetted, crimped steel wire mesh media provides 94% filtration efficiency of particulate of 10 micron or larger. Filters are cleanable and reusable.



### Full Cut-off Damper

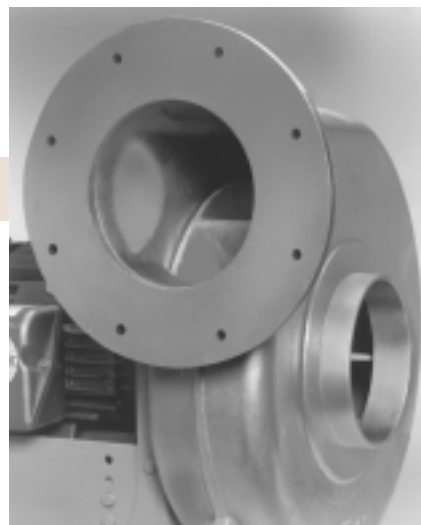
(shown mounted to fan inlet)

Cast aluminum housing with steel gate allows manual adjustment of CFM. Thumbscrew locks gate in place. Can be mounted on inlet or outlet.

### Flanges

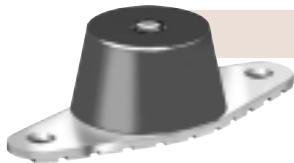
(outlet flange shown)

Cast aluminum flange matches ANSI flange bolt patterns. Available with either ANSI mounting hole diameters or 7/16" diameter (standard).



### Vibration Isolators

Neoprene isolators with molded-in steel mounting plate and threaded top mounting hole. Provides 1/4" static deflection.



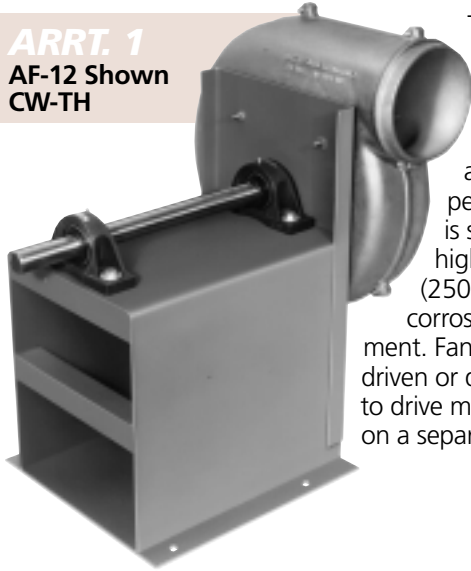
### Half Cut-off Dampers

Similar to full cut-offs except half cut-offs are saddle mounted to ductwork on inlet or outlet.



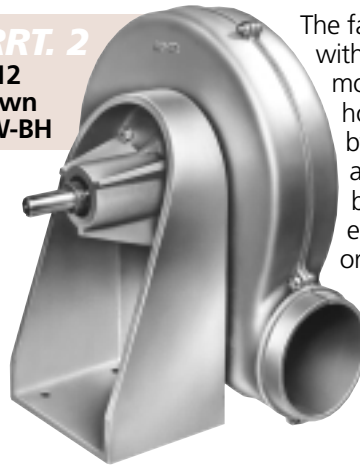
# ARRANGEMENTS

**ARRT. 1**  
AF-12 Shown  
CW-TH



The fan wheel is overhung with both bearings mounted on a common pedestal. ARRT. 1 is suitable for high temperature (250°F max.) and/or corrosive environment. Fan can be belt driven or directly coupled to drive motor mounted on a separate base.

**ARRT. 2**  
AF-12  
Shown  
CCW-BH

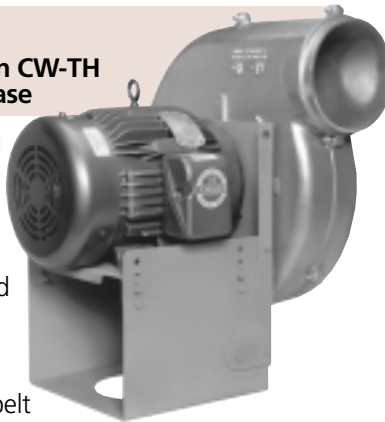


The fan wheel is overhung with both bearings mounted in a cast iron housing supported by the fan housing and a cast aluminum base. Unit can be either belt driven or direct coupled to an independently supported motor.

**ARRT. 4**  
AF-9 Shown CW-TH  
with cast  
alum.  
base

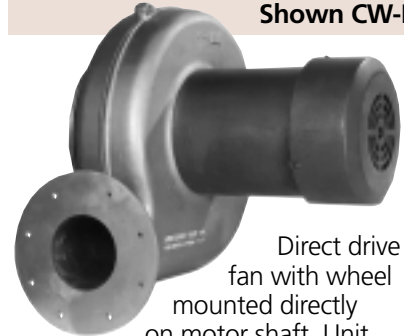


**ARRT. 4**  
AF-15 Shown CW-TH  
with steel base



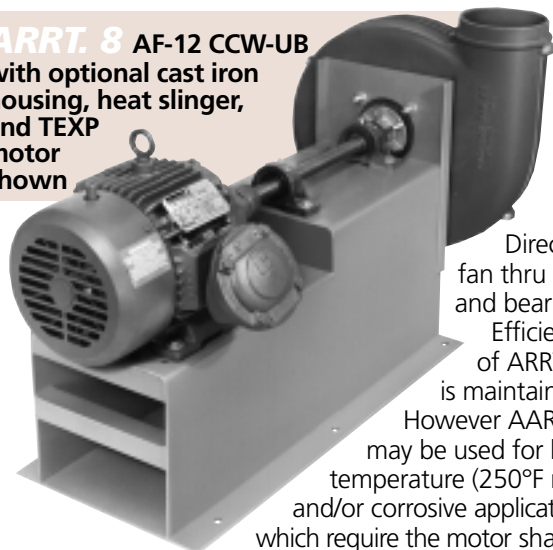
Direct drive fan with wheel mounted directly on motor shaft. Unit is designed for standard temperature applications only. With no belt losses, the direct drive fan operates at a higher efficiency.

**ARRT. 4** FLANGE MOUNT AF-9  
Shown CW-FM



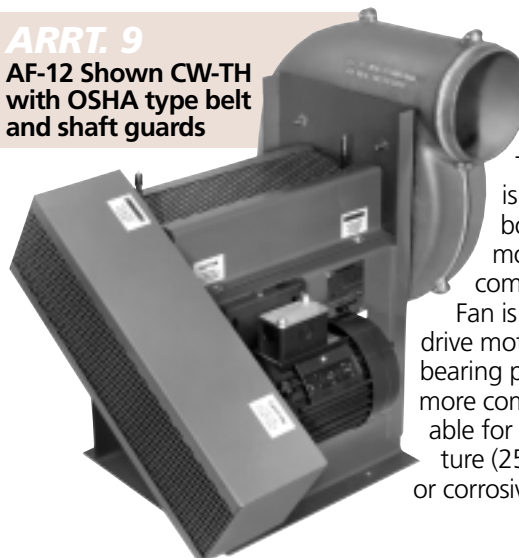
Direct drive fan with wheel mounted directly on motor shaft. Unit is designed to be supported by the outlet flange.

**ARRT. 8** AF-12 CCW-UB  
with optional cast iron  
housing, heat slinger,  
and TEXP  
motor  
shown



Direct drive fan thru shaft and bearings. Efficiency of ARRT. 4 is maintained. However AART. 8 may be used for high temperature (250°F max.) and/or corrosive applications which require the motor shaft to be outside of airstream.

**ARRT. 9**  
AF-12 Shown CW-TH  
with OSHA type belt  
and shaft guards



The fan wheel is overhung with both bearings mounted on a common pedestal. Fan is driven with drive motor mounted on bearing pedestal for a more compact unit suitable for high temperature (250°F max.) and/or corrosive environment.















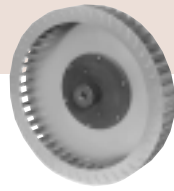








# Forward Curve



# 3000 RPM 50 Hz

CFM	BHP	MODEL	DBA @ 5'	CURVE NO.	% OF PEAK SP	INLET DIA.	OUTLET DIA.
10.0" SP (continued)							
3706	17.119	15-F15040-10	97	160	64	10	8
3867	20.326	15-F16440-10	98	166	56	10	8
11.0" SP							
1229	4.129	12-F13420-7	83	150	96	7	6
1311	4.244	12-F13430-7	83	151	92	7	6
2038	8.547	15-F15020-10	86	154	90	10	8
2300	10.131	15-F15020-7	85	152	80	7	8
2496	13.049	15-F16420-7	93	161	79	7	8
2500	10.994	15-F15020-8	86	153	87	8	8
2527	10.928	15-F15040-7	96	158	81	7	8
2555	10.484	15-F15030-7	91	155	78	7	8
2703	13.530	15-F16420-10	91	163	76	10	8
2735	14.264	15-F16440-7	97	164	70	7	8
2904	12.888	15-F15030-10	90	157	76	10	8
3028	13.386	15-F15030-8	92	156	74	8	8
3091	13.553	15-F15040-8	96	159	74	8	8
3258	16.902	15-F16440-8	97	165	66	8	8
3528	16.075	15-F15040-10	97	160	71	10	8
3695	19.388	15-F16440-10	98	166	62	10	8
12.0" SP							
2064	9.096	15-F15020-7	86	152	96	7	8
2241	9.875	15-F15020-8	87	153	95	8	8
2307	9.934	15-F15040-7	95	158	88	7	8
2330	12.297	15-F16420-7	92	161	86	7	8

CFM	BHP	MODEL	DBA @ 5'	CURVE NO.	% OF PEAK SP	INLET DIA.	OUTLET DIA.
12.0" SP (continued)							
2350	9.681	15-F15030-7	90	155	86	7	8
2578	13.485	15-F16440-7	97	164	77	7	8
2703	12.793	15-F16420-10	91	163	83	10	8
2720	14.159	15-F16420-8	92	162	84	8	8
2726	11.964	15-F15030-10	89	157	83	10	8
2799	12.340	15-F15030-8	91	156	81	8	8
2844	12.404	15-F15040-8	96	159	81	8	8
3106	16.176	15-F16440-8	97	165	72	8	8
3363	15.066	15-F15040-10	96	160	77	10	8
3513	18.440	15-F16440-10	98	166	67	10	8
13.0" SP							
2084	8.638	15-F15030-7	86	155	93	7	8
2124	11.467	15-F16420-7	92	161	93	7	8
2261	11.829	15-F16420-10	94	163	90	10	8
2403	12.530	15-F16440-7	96	164	83	7	8
2495	13.243	15-F16420-8	91	162	91	8	8
2524	10.858	15-F15030-10	85	157	90	10	8
2526	11.074	15-F15030-8	88	156	88	8	8
2558	11.086	15-F15040-8	95	159	88	8	8
2940	15.365	15-F16440-8	96	165	78	8	8

CFM	BHP	MODEL	DBA @ 5'	CURVE NO.	% OF PEAK SP	INLET DIA.	OUTLET DIA.
13.0" SP (continued)							
3173	13.975	15-F15040-10	96	160	84	10	8
3323	17.511	15-F16440-10	98	166	73	10	8
14.0" SP							
1540	6.487	15-F15030-7	86	155	100	7	8
1912	10.420	15-F16420-10	88	163	97	10	8
2175	9.178	15-F15030-8	86	156	94	8	8
2192	11.425	15-F16440-7	92	164	89	7	8
2200	9.447	15-F15040-8	94	159	94	8	8
2209	11.946	15-F16420-8	88	162	98	8	8
2236	9.392	15-F15030-10	86	157	97	10	8
2751	14.427	15-F16440-8	96	165	84	8	8
2941	12.747	15-F15040-10	93	160	90	10	8
3125	3.647	15-F16440-10	97	166	78	10	8
15.0" SP							
1906	10.043	15-F16440-7	92	164	96	7	8
2523	13.277	15-F16440-8	95	165	90	8	8
2608	11.489	15-F15040-10	94	160	97	10	8
2917	15.905	15-F16440-10	93	166	84	10	8
16.0" SP							
2214	11.657	15-F16440-8	96	165	96	8	8
2696	14.892	15-F16440-10	94	166	90	10	8
17.0" SP							
2461	13.435	15-F16440-10	94	166	95	10	8

## SPARK RESISTANT CONSTRUCTION

### TYPE A

All parts of the fan in contact with the air or gas being handled shall be made of non-ferrous material.

### TYPE B

Fan shall have entirely non-ferrous wheel and a non-ferrous ring about the opening through which the shaft passes.

### TYPE C

Fan shall be so constructed that a shift of the wheel or shaft will not permit two ferrous parts of the fan to rub or strike.

**Model AF meets the requirements of Type A Spark Resistant Construction (with the exception of the shaft) since they have aluminum wheels and housings.**

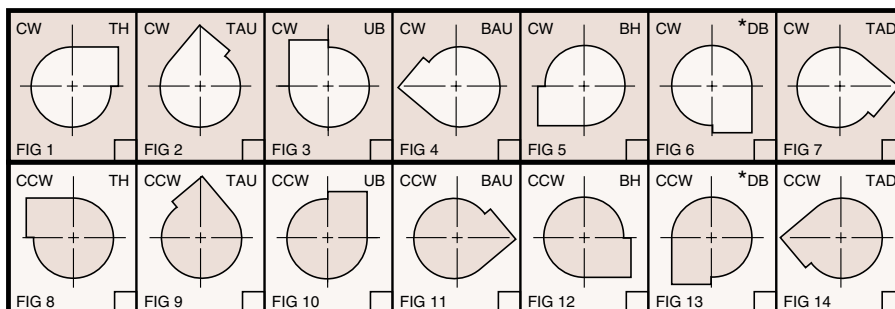
## HI-TEMPERATURE CONSTRUCTION

All AF arrangements with cast aluminum radial or backward curve wheels can be operated with airstream temperatures up to 200°F. Blowers with aluminum forward curve wheels can be operated with airstream temperatures up to 150°F. Higher temperature construction up to 700°F is available with welded steel construction (radial wheels only) and welded steel housings in arrangements 1, 8, and 9.

## CONVERSION FACTORS

- Volume** — cubic meters/sec. x 2119 = cubic feet/min. (CFM)
- Pressure** — Pascals (N/m<sup>2</sup>) x 0.004 = inches water
- Power** — kilowatts (Kw) x 1.341 = horsepower
- Length** — centimeters (cm) x 0.3937 = inches
- Temperature** — (°C x 1.8) + 32 = °F

## DISCHARGE POSITIONS

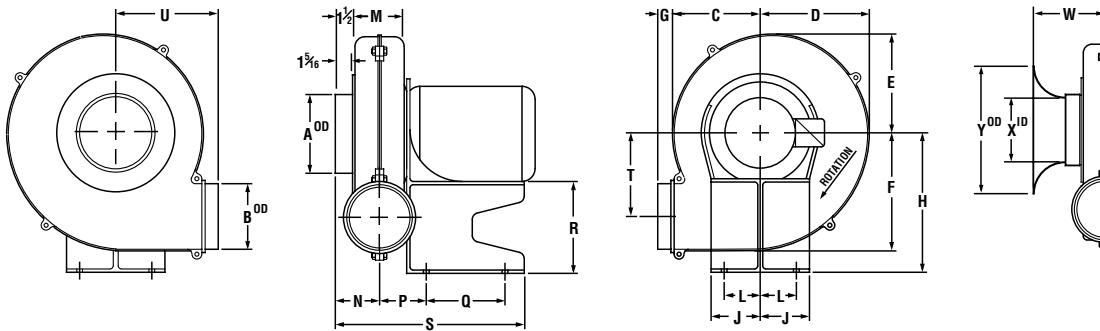


**NOTE:** Rotation is viewed from driven side.

**NOTE:** Downblast discharge not available with outlet flange.

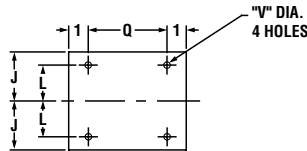


# ARR'T 4 CAST ALUMINUM BASE



**NOTES:**

- ① Outlet flange not available on DB discharge
- ② For flange details, see drawing AFA11421F
- ③ Housing, wheel, and base constructed of cast aluminum



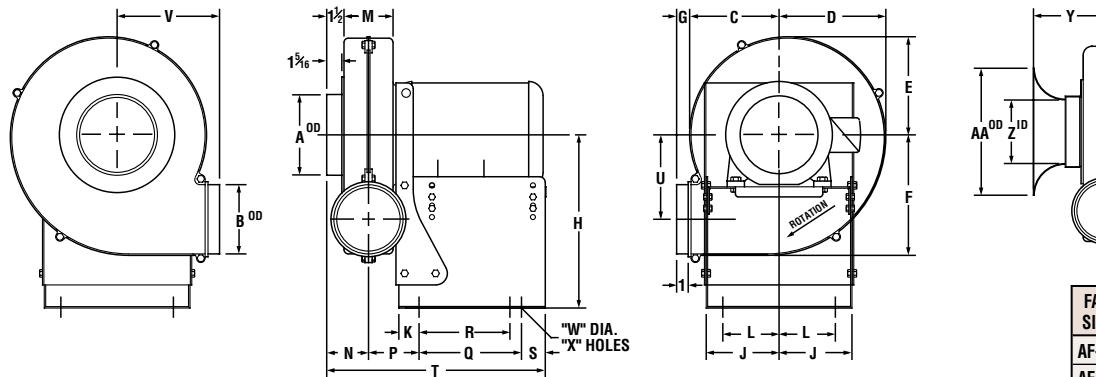
ALL DIMENSIONS SHOWN IN INCHES

FAN SIZE	MOTOR FRAME SIZE	INLET DIA. A	OUTLET DIA. B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	NET WTS. NO MOTOR LBS.
AF-8	56-C, 143-TC, 145-TC	3/4	4	4 5/16	5 3/16	5 3/32	6 1/16	1 3/8	8 1/2	3 3/4	1 1/8	2 3/4	3 1/2	2 7/8	2 7/8	5	5	11 3/4	4 9/16	6 5/16	7/16	25
AF-9	56-C, 143-TC, 145-TC	4/5	4	6	7 1/4	6 7/32	7 3/4	1 1/8	10 1/2	3 3/4	1 1/8	2 3/4	3 3/4	3 3/16	3 3/16	6	7	13 5/8	5 5/8	7 3/16	7/16	33
AF-10	56-C, 143-T, 145-TC	6	5	6 1/16	8 3/16	7 15/32	9	1 1/8	10 1/2	3 3/4	1 1/2	2 3/4	3 3/4	3 3/8	3 3/8	6	7	14 7/16	6 3/8	7 3/16	7/16	39

MOTORS	FRAME SIZE	WT. LBS.
56-C	24	
143-TC	33	
145-TC	45	

FAN SIZE	INLET DIA.	INLET BELL		
		W	X	Y
AF-8	3	4 1/4	2 5/8	5 1/4
AF-8	4	4 3/4	3 3/8	7 1/4
AF-9	4	4 15/16	3 3/8	9 1/4
AF-9	5	5 7/16	4 3/8	9 1/4
AF-10	6	6 3/16	5 1/2	11

# ARR'T 4 STEEL BASE



**NOTES:**

- ① AF-15 with 182T/184-T frame motor is not available in DB discharge
- ② AF-15, Add 7/8" to dimensions "P" & "T" for DB discharge (213T, 215T, 254T, 284TS, 286TS only)
- ③ AF-15 not available with 56 or 56C frame motors
- ④ For flange details, see drawing AFA11421F
- ⑤ Motor base is field adjustable to accept motor frames as shown
- ⑥ All sizes "DB" discharge only available less outlet flange

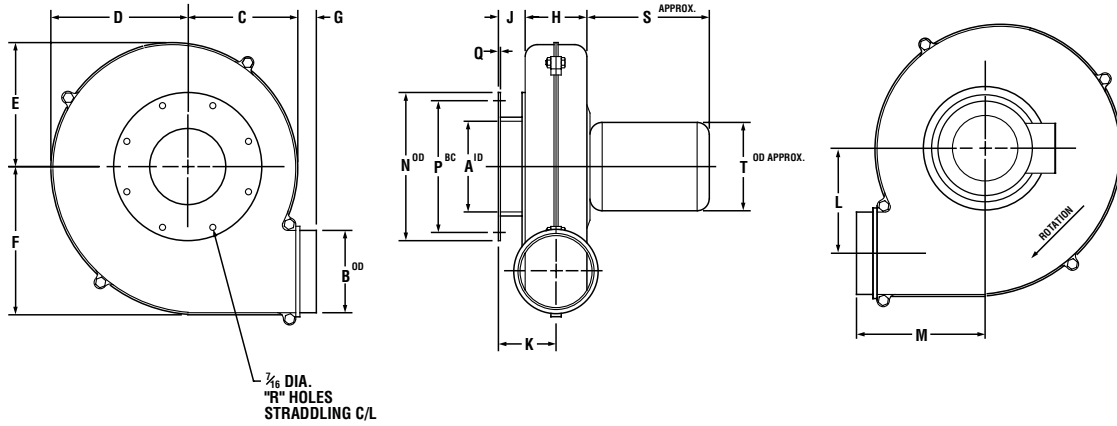
FAN SIZE	INLET DIA.	INLET BELL		
		Y	Z	AA
AF-10	6	6 3/16	5 1/2	11
AF-12	7	6 9/16	6 1/2	13
AF-15	7	7 3/4	6 1/2	13
AF-15	8	8 1/4	7 1/2	15
AF-15	10	9 1/4	9 1/2	19

ALL DIMENSIONS SHOWN IN INCHES

FAN SIZE	MOTOR FRAME SIZE	INLET DIA. A	OUTLET DIA. B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	NET WTS. NO MOTOR LBS.
AF-10	56, 143T, 145T, 56C, 143TC, 145TC, 182T	6	5	6 1/16	8 3/16	7 15/32	9	1 1/8	11 1/2	5	1 1/8	4	3 3/4	3 3/8	3 3/8	8	7	1 3/8	15 3/16	6 3/8	7 3/16	1/2	6	39
AF-12	56, 143T, 145T, 56C, 143TC, 145TC, 182T, 184T	7	6	7 3/4	9 1/4	8 1/2	10 1/16	1 1/8	11 1/2	5	1 1/8	4	4 1/4	3 3/8	3 3/8	8	7	1 3/8	15 3/16	7 3/8	8 3/8	1/2	6	46
AF-12	213T, 215T	7	6	7 3/4	9 1/4	8 1/2	10 1/16	1 1/8	11 1/2	6 3/16	1 1/8	4 1/4	4 1/4	3 3/8	4 1/8	8 1/8	-	2 1/8	18 3/8	7 3/8	8 3/8	9/16	4	46
AF-15	143T, 145T, 182T, 184T, 213T, 215T	7/8/10	8	9 3/8	11	10	12	1 1/8	15	6 3/16	1 3/4	4 1/2	5 1/2	4 1/8	5 1/2	8 1/2	-	2 1/8	20 1/2	7 3/8	10 5/16	9/16	4	79
AF-15	254T, 256T, 284TS, 286TS	7/8/10	8	9 3/8	11	10	12	1 1/8	15	7	1 3/4	4 1/2	5 1/2	4 1/8	5 1/2	16 1/4	-	2	27 1/8	7 3/8	10 5/16	1 1/8	4	121

MOTORS	FRAME SIZE	WT. LBS.
56C	24	
143T	32	
145T	40	
182T	58	
184T	70	
213T	100	
215T	130	
254T	240	
256T	300	
284TS	403	
286TS	420	

# ARR'T 4 INLET FLANGE MOUNT



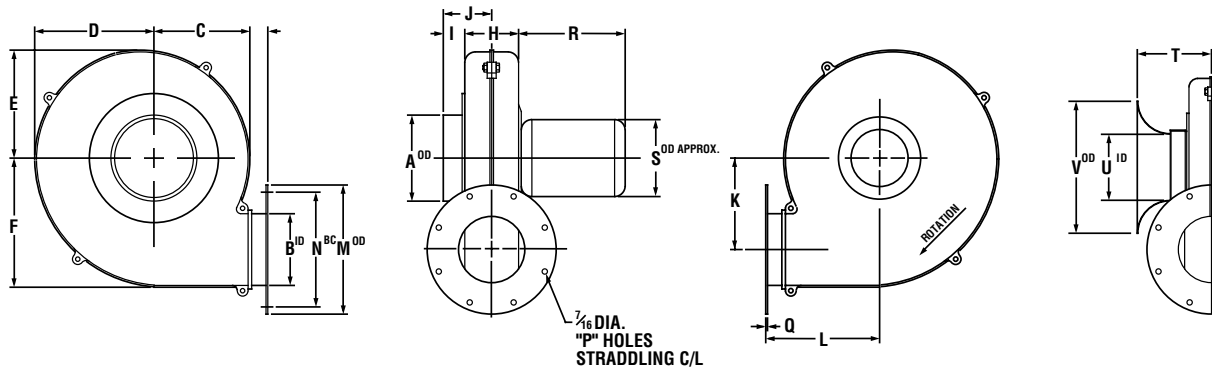
ALL DIMENSIONS SHOWN IN INCHES

FAN SIZE	MOTOR FRAME SIZE	INLET DIA. A	OUTLET DIA. B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	NET WTS. NO MOTOR LBS.
AF-8	56-C, 143-TC, 145-TC	2 <sup>9</sup> / <sub>16</sub> 3 <sup>9</sup> / <sub>16</sub>	4	4 <sup>1</sup> / <sub>16</sub>	5 <sup>3</sup> / <sub>16</sub>	5 <sup>3</sup> / <sub>32</sub>	6 <sup>1</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>8</sub>	4 <sup>9</sup> / <sub>16</sub>	6 <sup>5</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>2</sub> 9	6 7 <sup>1</sup> / <sub>2</sub>	1/4 8	4 8	14
AF-9	56-C, 143-TC, 145-TC	3 <sup>3</sup> / <sub>16</sub> 4 <sup>1</sup> / <sub>16</sub>	4	6	7 <sup>1</sup> / <sub>4</sub>	6 <sup>7</sup> / <sub>32</sub>	7 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub>	3 <sup>5</sup> / <sub>16</sub>	5 <sup>5</sup> / <sub>8</sub>	7 <sup>9</sup> / <sub>16</sub>	9 10	7 <sup>1</sup> / <sub>2</sub> 8 <sup>1</sup> / <sub>2</sub>	1/4 8	8	20
AF-10	56-C, 143-TC, 145-TC	5 <sup>1</sup> / <sub>2</sub>	5	6 <sup>1</sup> / <sub>16</sub>	8 <sup>3</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>32</sub>	9	1 <sup>1</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>16</sub>	6 <sup>3</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>16</sub>	11	9 <sup>1</sup> / <sub>2</sub>	1/4	8	35
AF-12	56-C, 143-TC, 145-TC 182-TC, 184-TC	6 <sup>1</sup> / <sub>4</sub>	6	7 <sup>3</sup> / <sub>4</sub>	9 <sup>1</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>2</sub>	10 <sup>7</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>8</sub>	3 <sup>5</sup> / <sub>16</sub>	7 <sup>5</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>8</sub>	11	9 <sup>1</sup> / <sub>2</sub>	5/16	8	40
AF-15	143-TC, 145-TC, 182-TC, 184-TC, 213-TC, 215-TC	6 <sup>1</sup> / <sub>4</sub>	8	9 <sup>1</sup> / <sub>8</sub>	11	10	12	1 <sup>1</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>8</sub>	2	4 <sup>5</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>8</sub>	10 <sup>9</sup> / <sub>16</sub>	11	9 <sup>1</sup> / <sub>2</sub>	1/2	8	56
		7 <sup>1</sup> / <sub>2</sub>												8				
		9 <sup>1</sup> / <sub>16</sub>												16	14 <sup>1</sup> / <sub>4</sub>		12	

MOTORS			
FRAME SIZE	WT. LBS.	S	T
56-C	25	11 <sup>1</sup> / <sub>2</sub>	6 <sup>1</sup> / <sub>4</sub>
143-TC	33	11 <sup>1</sup> / <sub>2</sub>	7
145-TC	45	11 <sup>1</sup> / <sub>2</sub>	7
182-TC	60	14 <sup>1</sup> / <sub>2</sub>	9
184-TC	70	14 <sup>1</sup> / <sub>2</sub>	9
213-TC	120	16	10 <sup>1</sup> / <sub>2</sub>
215-TC	140	16	10 <sup>1</sup> / <sub>2</sub>

- NOTES:
- For optional outlet flange, see drawing AFA11421F
  - Inlet flange is welded to inlet side housing
  - Housing, flange, and wheel are constructed of cast aluminum

# ARR'T 4 OUTLET FLANGE MOUNT



ALL DIMENSIONS SHOWN IN INCHES

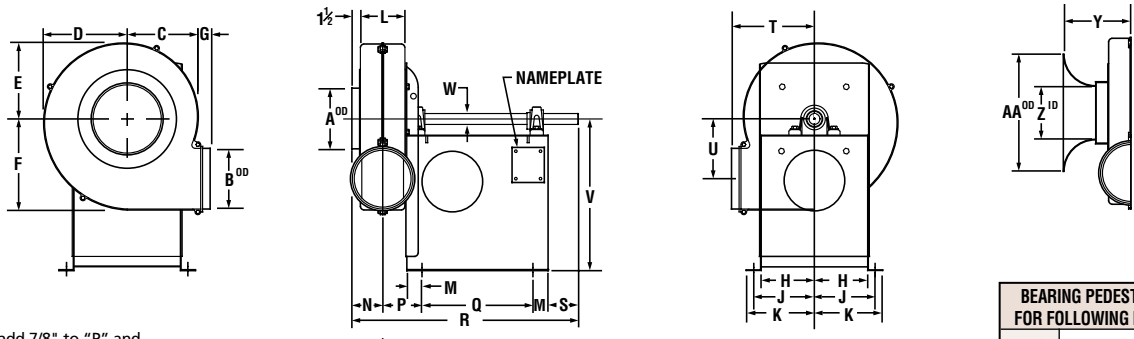
FAN SIZE	MOTOR FRAME SIZE	INLET DIA. A	OUTLET DIA. B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	NET WTS. NO MOTOR LBS.
AF-8	56-C, 143-TC, 145-TC	3	3 <sup>3</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>16</sub>	5 <sup>3</sup> / <sub>16</sub>	5 <sup>3</sup> / <sub>32</sub>	6 <sup>1</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>	4 <sup>9</sup> / <sub>16</sub>	6 <sup>5</sup> / <sub>16</sub>	9	7 <sup>1</sup> / <sub>2</sub>	8	1/4	14
		4																
AF-9	56-C, 143-TC, 145-TC	4	3 <sup>3</sup> / <sub>16</sub>	6	7 <sup>1</sup> / <sub>4</sub>	6 <sup>7</sup> / <sub>32</sub>	7 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>16</sub>	5 <sup>5</sup> / <sub>8</sub>	7 <sup>9</sup> / <sub>16</sub>	9	7 <sup>1</sup> / <sub>2</sub>	8	1/4	20
		5																
AF-10	56-C, 143-TC, 145-TC	6	4 <sup>1</sup> / <sub>16</sub>	6 <sup>1</sup> / <sub>16</sub>	8 <sup>3</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>16</sub>	9	1 <sup>1</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>8</sub>	6 <sup>3</sup> / <sub>8</sub>	8 <sup>1</sup> / <sub>16</sub>	10	8 <sup>1</sup> / <sub>2</sub>	8	5/16	35
AF-12	56-C, 143-TC, 145-TC 182-TC, 184-TC	7	5 <sup>1</sup> / <sub>2</sub>	7 <sup>3</sup> / <sub>4</sub>	9 <sup>1</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>2</sub>	10 <sup>7</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	3 <sup>5</sup> / <sub>16</sub>	7 <sup>5</sup> / <sub>16</sub>	9 <sup>9</sup> / <sub>16</sub>	11	9 <sup>1</sup> / <sub>2</sub>	8	5/16	40
AF-15	143-TC, 145-TC, 182-TC, 213-TC, 215-TC	7	7 <sup>1</sup> / <sub>2</sub>	9 <sup>1</sup> / <sub>8</sub>	11	10	12	2 <sup>1</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>8</sub>	11 <sup>1</sup> / <sub>16</sub>	13 <sup>1</sup> / <sub>2</sub>	11 <sup>3</sup> / <sub>4</sub>	8	5/16	56
		8															1/2	
		10															1/2	

MOTORS			
FRAME SIZE	WT. LBS.	S	T
56-C	25	11 <sup>1</sup> / <sub>2</sub>	6 <sup>1</sup> / <sub>4</sub>
143-TC	33	11 <sup>1</sup> / <sub>2</sub>	7
145-TC	45	11 <sup>1</sup> / <sub>2</sub>	7
182-TC	60	14 <sup>1</sup> / <sub>2</sub>	9
184-TC	70	14 <sup>1</sup> / <sub>2</sub>	9
213-TC	120	16	10 <sup>1</sup> / <sub>2</sub>
215-TC	140	16	10 <sup>1</sup> / <sub>2</sub>

FAN SIZE	INLET DIA.	INLET BELL		
		T	U	V
AF-8	3	4 <sup>1</sup> / <sub>4</sub>	2 <sup>3</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>4</sub>
AF-8	4	4 <sup>3</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>4</sub>
AF-9	4	4 <sup>5</sup> / <sub>16</sub>	3 <sup>5</sup> / <sub>8</sub>	7 <sup>3</sup> / <sub>4</sub>
AF-9	5	5 <sup>1</sup> / <sub>16</sub>	4 <sup>3</sup> / <sub>8</sub>	9 <sup>1</sup> / <sub>4</sub>
AF-10	6	6 <sup>3</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>2</sub>	11
AF-12	7	6 <sup>5</sup> / <sub>16</sub>	6 <sup>1</sup> / <sub>2</sub>	13
AF-15	7	7 <sup>3</sup> / <sub>4</sub>		
AF-15	8	8 <sup>1</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>2</sub>	15
AF-15	10	9 <sup>1</sup> / <sub>4</sub>	9 <sup>1</sup> / <sub>2</sub>	19

- NOTES:
- For optional inlet flange, see drawing AFA11421F
  - Inlet flange is welded to motor side housing and bolted to inlet side housing
  - Housing, flange, and wheel are constructed of cast aluminum

# ARR'T 1



- NOTES:**
- ① For DB discharge, add 7/8" to "P" and "R" dimensions
  - ② Outlet flange not available on DB discharge
  - ③ Housing and wheel constructed of cast aluminum, base is steel
  - ④ For flange details, see drawing AFA11421F

CW - BH UNIT SHOWN

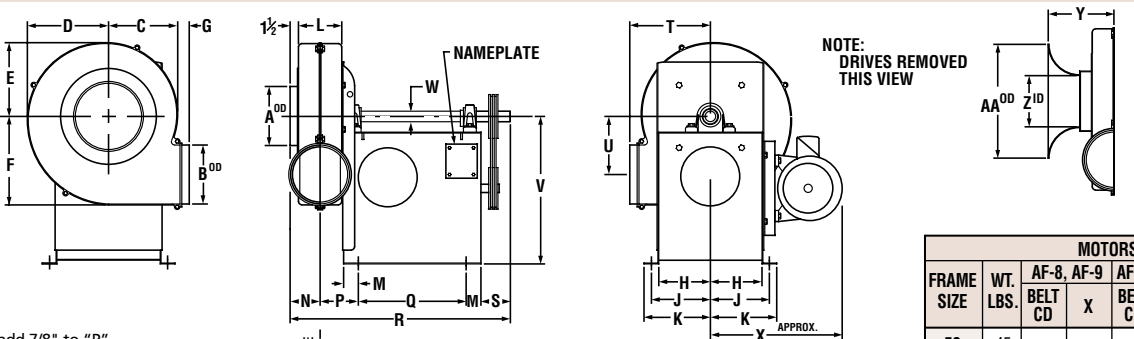
BEARING PEDESTAL IS PREPUNCHED FOR FOLLOWING MOTOR SLIDE BASES	
AF-8	
AF-9	56, 143-T, 145-T, 182-T, 184-T
AF-10	
AF-12	
AF-15	56, 143-T, 145-T, 182-T, 184-T, 213-T, 215-T

ALL DIMENSIONS SHOWN IN INCHES

FAN SIZE	INLET DIA. A	OUTLET DIA. B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	R	S	T	U	V	STANDARD DUTY			HEAVY DUTY			
																						W	KEYWAY	WEIGHTS LBS.	W	KEYWAY	WEIGHTS LBS.	
AF-8	3	4	4	4 1/16	5 1/16	5 3/32	6 1/16	1 3/8	4	7/16	5	6	3 1/2	1	2 1/2	3	12	21 1/2	3	6 3/8	4	15	3/4	1/4 x 1/8	36	1	1/4 x 1/8	41
	4																											
AF-9	4	4	6	7 1/4	6 7/32	7 3/4	1 3/8	4	7/16	5	6	3 3/4	1	3 1/16	3 3/8	12	22 3/8	3	7 7/16	5 1/2	15	3/4	1/4 x 1/8	39	1	1/4 x 1/8	45	
	5																											
AF-10	6	5	6 1/16	8 5/16	7 15/32	9	1 1/2	5	5/8	6	7	3 3/4	1	3 3/8	3 3/8	12	22 1/2	3	7 7/16	6 3/8	15	1	1/4 x 1/8	49	1 1/8	1/4 x 1/8	58	
AF-12	7	6	7 3/4	9 1/4	8 1/2	10 7/16	1 1/8	5	5/8	6	7	4 1/4	1	3 3/8	3 3/8	12	23	3	8 7/8	7 7/16	15	1	1/4 x 1/8	52	1 3/8	1/4 x 1/8	63	
	7																											
AF-15	8	8	9 3/8	11	10	12	1 1/8	7	3/4	8	9	5 1/2	2	4 7/16	5 3/8	14 1/2	30 1/4	4	10 5/8	7 1/2	20	1 1/8	3/8 x 3/16	94	1 1/8	3/8 x 3/16	118	
	10																											

FAN SIZE	INLET DIA.	INLET BELL		
		Y	Z	AA
AF-8	3	4 1/4	2 1/2	5 1/4
AF-8	4	4 3/4	3	7 1/4
AF-9	4	4 1/16	3 3/8	7 1/4
AF-9	5	5 1/16	4 1/8	9 1/4
AF-10	6	6 3/16	5 1/2	11
AF-12	7	6 1/16	6 1/2	13
AF-15	7	7 3/4	6 1/2	13
AF-15	8	8 1/4	7 1/2	15
AF-15	10	9 1/4	9 1/2	19

# ARR'T 9



- NOTES:**
- ① For DB discharge, add 7/8" to "P" and "R" dimensions
  - ② Outlet flange not available on DB discharge
  - ③ Housing and wheel constructed of cast aluminum, base is steel
  - ④ For flange details, see drawing AFA11421F

NOTE: DRIVES REMOVED THIS VIEW

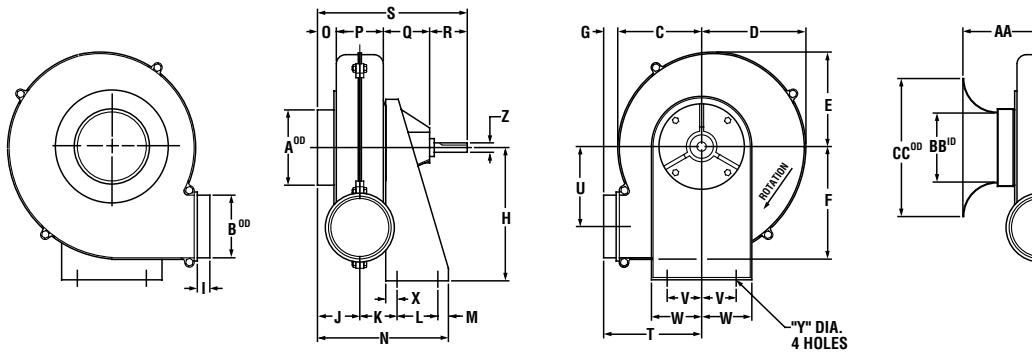
ALL DIMENSIONS SHOWN IN INCHES

FAN SIZE	INLET DIA. A	OUTLET DIA. B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	R	S	T	U	V	STANDARD DUTY			HEAVY DUTY			
																						W	KEYWAY	NET WTS. NO MOTOR LBS.	W	KEYWAY	NET WTS. NO MOTOR LBS.	
AF-8	3	4	4	4 1/16	5 1/16	5 3/32	6 1/16	1 3/8	4	7/16	5	6	3 1/2	1	2 1/2	3	12	21 1/2	3	6 3/8	4	15	3/4	1/4 x 1/8	36	1	1/4 x 1/8	41
	4																											
AF-9	4	4	6	7 1/4	6 7/32	7 3/4	1 3/8	4	7/16	5	6	3 3/4	1	3 1/16	3 3/8	12	22 3/8	3	7 7/16	5 1/2	15	3/4	1/4 x 1/8	39	1	1/4 x 1/8	45	
	5																											
AF-10	6	5	6 1/16	8 5/16	7 15/32	9	1 1/2	5	5/8	6	7	3 3/4	1	3 3/8	3 3/8	12	22 1/2	3	7 7/16	6 3/8	15	1	1/4 x 1/8	49	1 1/8	1/4 x 1/8	58	
AF-12	7	6	7 3/4	9 1/4	8 1/2	10 7/16	1 1/8	5	5/8	6	7	4 1/4	1	3 3/8	3 3/8	12	23	3	8 7/8	7 7/16	15	1	1/4 x 1/8	52	1 3/8	1/4 x 1/8	63	
	7																											
AF-15	8	8	9 3/8	11	10	12	1 1/8	7	3/4	8	9	5 1/2	2	4 7/16	5 3/8	14 1/2	30 1/4	4	10 5/8	7 1/2	20	1 1/8	3/8 x 3/16	94	1 1/8	3/8 x 3/16	118	
	10																											

MOTORS							
FRAME SIZE	WT. LBS.	AF-8, AF-9 BELT CD	AF-8, AF-9 X	AF-10, AF-12 BELT CD	AF-10, AF-12 X	AF-15 BELT CD	AF-15 X
56	45						
143T	50	11.9	12%	12.8	13%	15.3	15%
145T	58						
182T	94						
184T	110	12.9	14 3/4	13.9	15 3/4	16.4	17 3/4
213T	164						
215T	186	N/A		N/A		17.2	19%

FAN SIZE	INLET DIA.	INLET BELL		
		Y	Z	AA
AF-8	3	4 1/4	2 1/2	5 1/4
AF-8	4	4 3/4	3	7 1/4
AF-9	4	4 1/16	3 3/8	7 1/4
AF-9	5	5 1/16	4 1/8	9 1/4
AF-10	6	6 3/16	5 1/2	11
AF-12	7	6 1/16	6 1/2	13
AF-15	7	7 3/4	6 1/2	13
AF-15	8	8 1/4	7 1/2	15
AF-15	10	9 1/4	9 1/2	19

# ARR'T 2



ALL DIMENSIONS SHOWN IN INCHES

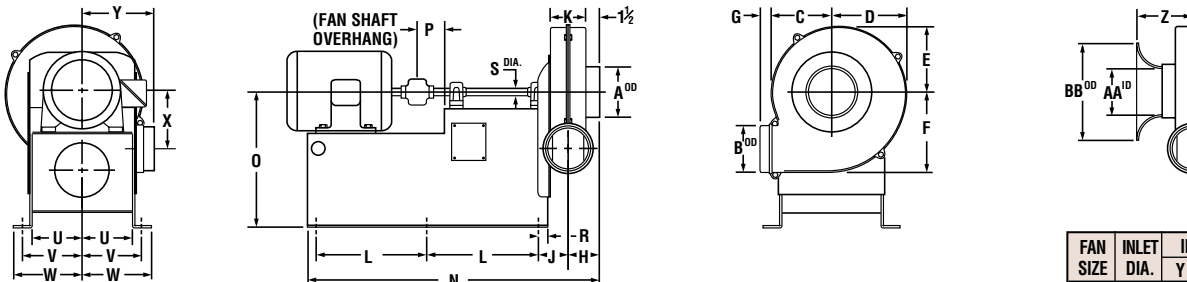
FAN SIZE	INLET DIA. A	OUTLET DIA. B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	SHAFT DIA. Z	KEYWAY	NET WT. NO MOTOR LBS.
AF-8	3	4	4 1/16	5 3/16	5 3/32	6 1/16	1 1/8	10	2 7/8	2 7/8	3 3/4	3/4	9 3/4	1 1/8	3 1/2	3 1/16	3	11 1/16	6 5/8	4 9/16	2 7/8	4	1	7/16	3/4	1/4 x 1/8	27
	4		4 1/8	5 1/2	6 1/8	7 1/8	1 1/8	10	3 1/8	2 3/32	3 3/4	3/4	10 1/32	1 1/8	3 3/4	3 1/16	3	11 1/8	7 3/8	5 3/8	2 7/8	4	1	7/16	3/4	1/4 x 1/8	
AF-9	4	5	6	7 1/4	6 7/32	7 3/4	1 1/8	10	3 1/8	2 3/32	3 3/4	3/4	10 1/32	1 1/8	3 3/4	3 1/16	3	11 1/8	7 3/8	5 3/8	2 7/8	4	1	7/16	3/4	1/4 x 1/8	33
	5		6 1/8	7 1/2	8 1/8	9 1/8	1 1/8	10	3 3/8	2 3/32	3 3/4	3/4	10 1/32	1 1/8	3 3/4	3 1/16	3	11 1/8	7 3/8	5 3/8	2 7/8	4	1	7/16	3/4	1/4 x 1/8	
AF-10	6	5	6 1/16	8 5/16	7 15/32	9	1 1/8	10	3 3/8	2 3/32	3 3/4	3/4	10 1/32	1 1/8	3 3/4	3 1/16	3	11 1/8	7 3/8	6 3/8	2 7/8	4	1	7/16	3/4	1/4 x 1/8	47
AF-12	7	6	7 3/4	9 1/4	8 1/2	10 7/16	1 1/8	11 1/2	3 3/8	3 3/16	4 1/2	1 1/4	12 29/32	1 1/2	4 1/4	5 3/16	4	15 5/16	8 7/8	7 3/8	3 3/8	4 1/2	1 1/4	3/4	1	1/4 x 1/8	70
	7		8 1/8	10 1/8	11 1/8	12 1/8	1 1/8	12 1/8	3 3/8	3 3/16	4 1/2	1 1/4	12 29/32	1 1/2	4 1/4	5 3/16	4	15 5/16	8 7/8	7 3/8	3 3/8	4 1/2	1 1/4	3/4	1	1/4 x 1/8	
	8		9 3/8	11 1/8	12 1/8	13 1/8	1 1/8	12 1/8	3 3/8	3 3/16	4 1/2	1 1/4	12 29/32	1 1/2	4 1/4	5 3/16	4	15 5/16	8 7/8	7 3/8	3 3/8	4 1/2	1 1/4	3/4	1	1/4 x 1/8	
AF-15	7	8	9 3/8	11	10	12	1 1/8	15	4 7/16	4 3/8	4 1/2	1 1/4	14 1/16	1 1/2	5 7/8	5 9/16	4	16 5/16	10 5/8	7 7/8	3 3/4	5	1 1/4	3/4	1 1/16	3/8 x 3/16	93
	10		10 1/8	12 1/8	13 1/8	15 1/8	1 1/8	15 1/8	4 7/16	4 3/8	4 1/2	1 1/4	14 1/16	1 1/2	5 7/8	5 9/16	4	16 5/16	10 5/8	7 7/8	3 3/4	5	1 1/4	3/4	1 1/16	3/8 x 3/16	

FAN SIZE	INLET DIA.	INLET BELL		
		AA	BB	CC
AF-8	3	4 1/4	2 5/8	5 1/4
AF-8	4	4 3/4	3 3/8	7 1/4
AF-9	4	4 1/16	3 3/8	7 1/4
AF-9	5	5 7/16	4 3/8	9 1/4
AF-10	6	6 3/16	5 1/2	11
AF-12	7	6 1/16	6 1/2	13
AF-15	7	7 3/4	6 1/2	13
AF-15	8	8 1/4	7 1/2	15
AF-15	10	9 1/4	9 1/2	19

**NOTES:**

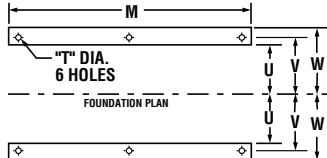
- ① Outlet flange not available on DB discharge
- ② For flange details, see drawing AFA11421F
- ③ Housing, wheel and base constructed of cast aluminum, bearing housing constructed of cast iron

# ARR'T 8



**NOTES:**

- ① For DB discharge, add 7/8" to "J" and "N" dimensions
- ② Outlet flange not available on DB discharge
- ③ Housing and wheel constructed of cast aluminum, base is steel
- ④ For flange details, see drawing AFA11421F



FAN SIZE	FAN WEIGHT (LBS) LESS MOTOR					
	56/143T	182T	213T	254T	284TS	286TS
AF-8	56	56	-	-	-	-
AF-9	61	61	-	-	-	-
AF-10	84	84	-	-	-	-
AF-12	90	90	95	-	-	-
AF-15	152	152	156	156	168	168

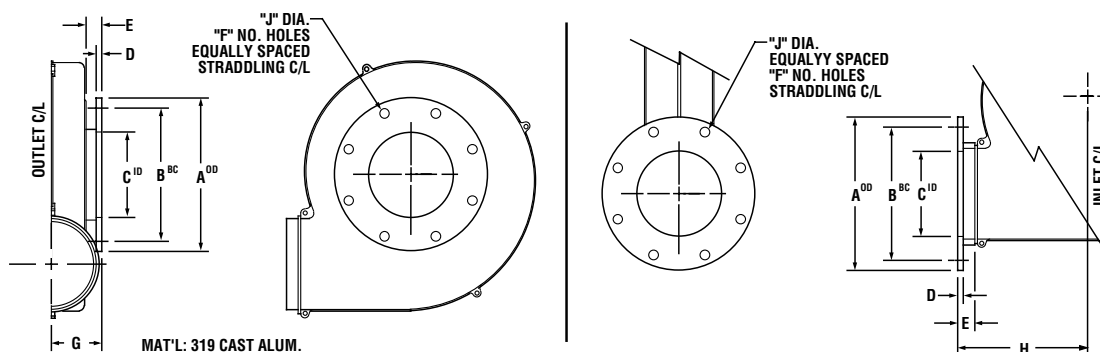
FAN SIZE	INLET DIA.	INLET BELL		
		Y	Z	AA
AF-8	3	4 1/2	2 5/8	11
AF-8	4	4 3/4	3 3/8	13
AF-9	4	4 1/16	3 3/8	13
AF-9	5	5 7/16	4 3/8	15
AF-10	6	6 3/16	5 1/2	11
AF-12	7	6 1/16	6 1/2	13
AF-15	7	7 3/4	6 1/2	13
AF-15	8	8 1/4	7 1/2	15
AF-15	10	9 1/4	9 1/2	19

MOTORS	
FRAME SIZE	WT. LBS.
56	45
143T	45
145T	52
182T	85
184T	100
213T	150
215T	170
254T	260
256T	290
284TS	390
286TS	440

ALL DIMENSIONS SHOWN IN INCHES

FAN SIZE	INLET DIA. A	OUTLET DIA. B	C	D	E	F	G	H	J <sup>①</sup>	K	56/143T/145T						182T/184T						213T/215T						254T/256T						284TS/286TS						P	Q	R	STANDARD DUTY		HEAVY DUTY		T	U	V	W	X	Y
											L	M	N <sup>①</sup>	L	M	N <sup>①</sup>	L	M	N <sup>①</sup>	L	M	N <sup>①</sup>	L	M	N <sup>①</sup>	L	M	N <sup>①</sup>	S	KEYWAY	S	KEYWAY																					
											S		KEYWAY		S		KEYWAY																																				
AF-8	3	4	4 1/16	5 3/16	5 3/32	6 1/16	1 1/8	2 7/8	3	3 1/2	11 3/8	24 3/8	29 1/4	11 1/8	25 1/8	30 3/4	-	-	-	-	-	-	-	-	-	-	-	-	3	15	1	3/4	3/8 x 3/32	1	1/4 x 1/8	7/16	4 1/2	5 1/2	6 1/2	4 9/16	6 3/8												
	4		4 1/8	5 1/2	6 1/8	7 1/8	1 1/8	3 1/8	3 3/8	3 3/4	11 3/8	24 3/8	29 1/8	11 1/8	25 1/8	31 1/8	-	-	-	-	-	-	-	-	-	-	-	3	15	1	3/4	3/8 x 3/32	1	1/4 x 1/8	7/16	4 1/2	5 1/2	6 1/2	5 3/8	7 3/8													
AF-9	4	5	6	7 1/4	6 7/32	7 3/4	1 1/8	3 1/8	3 3/8	3 3/4	11 3/8	24 3/8	29 3/8	11 3/8	25 3/8	31 3/8	-	-	-	-	-	-	-	-	-	-	-	3	15	1	3/4	3/8 x 3/32	1	1/4 x 1/8	7/16	4 1/2	5 1/2	6 1/2	5 3/8	7 3/8													
AF-10	6	5	6 1/16	8 5/16	7 15/32	9	1 1/8	3 3/8	3 3/8	3 3/4	11 1/2	25	30 1/2	12 1/4	26 1/2	32	-	-	-	-	-	-	-	-	-	-	3	15	1	1	1/4 x 1/8	1 3/16	1/4 x 1/8	9/16	4 1/2	5 1/2	6 1/2	6 3/8	7 3/8														
AF-12	7	6	7 3/4	9 1/4	8 1/2	10 7/16	1 1/8	3 3/8	3 3/8	4 1/4	11 1/2	25	31	12 1/4	26 1/2	32 1/2	15 3/8	32 3/8	38 3/8	-	-	-	-	-	-	-	3	15	1	1	1/4 x 1/8	1 3/16	1/4 x 1/8	9/16	5 1/2	6 1/2	7 1/2	7 3/8	8 3/8														
AF-15	7	8	9 3/8	11	10	12	1 1/8	4 7/16	5 3/8	5 1/2	12 1/2	28 3/8	36 3/8	13 3/8	30 3/4	38 3/8	14 1/4	33 3/8	41 1/4	17 7/8	39 3/8	47 3/8	18 3/8	40 3/8	48 3/8	4	20	2	1 1/16	3/8 x 3/16	1 1/16	3/8 x 3/16	9/16	7	8	9	7 7/8	10 5/8															
	8		10 1/8	12 1/8	13 1/8	15 1/8	1 1/8	4 7/16	5 3/8	5 1/2	12 1/8	28 3/8	36 3/8	13 3/8	30 3/4	38 3/8	14 1/4	33 3/8	41 1/4	17 7/8	39 3/8	47 3/8	18 3/8	40 3/8	48 3/8	4	20	2	1 1/16	3/8 x 3/16	1 1/16	3/8 x 3/16	9/16	7	8	9	7 7/8	10 5/8															
	10		10 1/8	12 1/8	13 1/8	15 1/8	1 1/8	4 7/16	5 3/8	5 1/2	12 1/8	28 3/8	36 3/8	13 3/8	30 3/4	38 3/8	14 1/4	33 3/8	41 1/4	17 7/8	39 3/8	47 3/8	18 3/8	40 3/8	48 3/8	4	20	2	1 1/16	3/8 x 3/16	1 1/16	3/8 x 3/16	9/16	7	8	9	7 7/8	10 5/8															

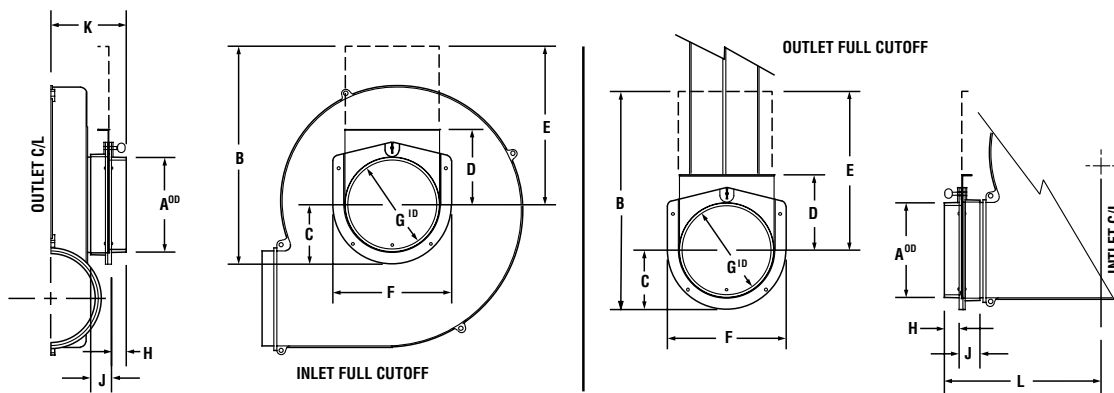
# FLANGES



FAN SIZE	INLET	OUTLET	A	B	C	D	E	F	G	H	MATCHES 125/150 lb. ANSI FLANGE BOLT PATTERN		MATCHES 125/150 lb. ANSI FLANGE BOLT PATTERN EXCEPT HOLE DIA. = 7/16 (AFC STANDARD)	
											J	PART NUMBER	J	PART NUMBER
AF-8	3	X	7½	6	2⅝	¼	1¼	4	3½	—	¾	24149F	7/16	24149F-7/16
	4	4	9	7½	3⅝	¼	1¼	8	3½	6⅞	¾	24101F	7/16	24101F-7/16
AF-9	4	4	9	7½	3⅝	¼	1¼	8	3⅝	7⅞	¾	24101F	7/16	24101F-7/16
	5	X	10	8½	4⅞	¼	1¼	8	3⅝	—	¾	24103F	7/16	24103F-7/16
AF-10	X	5	10	8½	4⅞	¼	1¼	8	—	8½	¾	24103F	7/16	24103F-7/16
	6	X	11	9½	5½	⅝	1¼	8	3⅝	—	7/8	24106F	7/16	24106F-7/16
AF-12	X	6	11	9½	5½	⅝	1¼	8	—	9⅞	7/8	24106F	7/16	24106F-7/16
	7*	X	11	9½	6¼	⅝	1¼	8	3⅝	—	7/8	24129F	7/16	24129F-7/16
AF-15	7*	X	11	9½	6¼	⅝	1¼	8	4¾	—	7/8	24129F	7/16	24129F-7/16
	8	8	13½	11¾	7½	½	1½	8	4⅝	11⅞	7/8	24044F	7/16	24044F-7/16
	10	X	16	14¼	9⅞	½	1½	12	4⅝	—	1	24130F	7/16	24130F-7/16

\*O.D. and B.C. match 6" ANSI flange

# FULL CUT-OFF DAMPERS



INLET	OUTLET	SIZE	PART NO.	A	B	C	D	E	F	G	H	J	K	L
AF-8	—	3"	63649	2⅝	7⅝	2⅝	3	5⅝	4	2½	1¼	1⅞	5½	8½
AF-8	AF-8	4"	63650	3⅝	9⅞	2¾	3¾	7⅞	5	3½	1¼	1⅞	5½	8½
AF-9	AF-9												5⅞	8⅝
AF-9	AF-10	5"	63651	4⅞	12⅞	3⅞	4⅞	9	6¾	4½	1¼	1⅞	5⅞	9⅞
AF-10	AF-12	6"	63652	5⅞	13⅞	3¾	4¾	9⅞	7½	5½	1¼	1⅞	5⅞	10⅞
AF-12	—	7"	63653	6⅞	15⅞	4¼	5¼	11⅞	8½	6½	1¼	1⅞	5⅞	10⅞
AF-15	—												6⅞	12⅞
AF-15	AF-15	8"	63654	7⅞	18⅞	5	6⅞	13⅞	10	7½	1¼	1⅞	6⅞	12⅞
AF-15	—	10"	63655	9⅞	22⅞	6	7⅞	16⅞	12	9½	1¾	1⅞	6⅞	12⅞



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