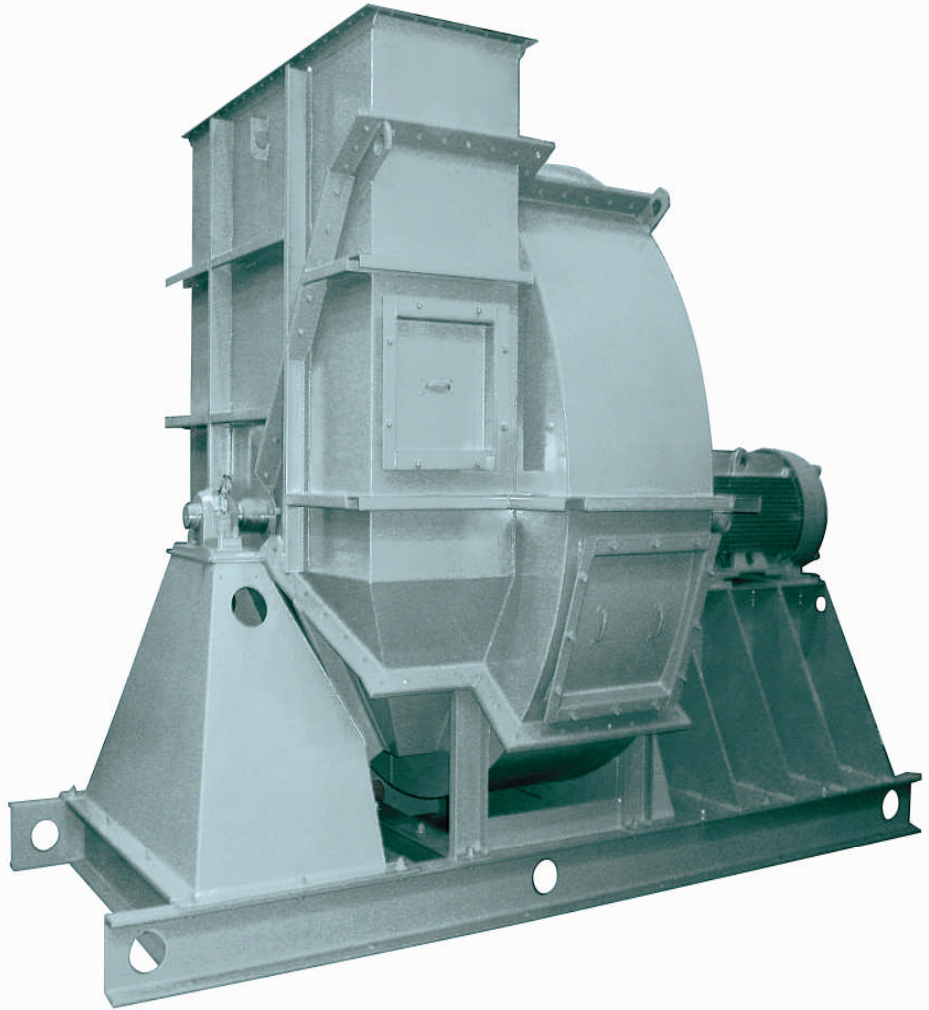


Mechanical Draft Fans

Designed For Multiple Applications

Industrial Duty Fans
Designed to meet the requirements of the high pressure & volume industrial process systems serving the following industries:.
Ethanol
Power Generation
Petrochemical
Steel
Paper & Pulp
Mining
Dust Control
Pollution Control
Wheel Types:
Radial Bladed (DH, LS, RIM)
Backwardly Inclined (Airfoil & Single Thickness)
Radial Tip (RTS)
Fan Types:
General Industrial (Series 30 & 45)
AF- Fans (AF-40 & 50)
RTS
Single Width AcF9@/PLR Fans (Class III & IV)
Double Width AcF@/PLR Fans (Class III & IV)
Size Range:
24" diameter to
89" diameter
Design Features:
Volumes to 220,000 CFM
Pressures to 52" W.G.
Temperatures to 750°F
API & PIP Specifications Available
Special Alloys (AR-Construction Available)
Standard Construction Features:
Flanged Inlet
Flanged Outlet
Split Housing Construction (for removal of wheel/shaft/bearings as an assembly)
Bearing Pedestals (inlet side and drive)
Inlet Box
Cleanout Door (Flush Bolted) Fan
Cleanout Door (Flush Bolted) Inlet Box
Ceramic Felt Shaft Seal (Fan Housing)
Ceramic Felt Shaft Seal (Inlet Box)



Performance Charts:

Performance Chart ratings based on 70°F air.

AF40 FAN SIZE	FAN SPEED (rpm)						
	900	1000	1200	1500	1800	3000	3600
	WHEEL WIDTH (%)						
24	100%						
27	100%						
30	100%						
33	100%						
36	100%						
40	100%						
44	100%						
49	100%						
54	100%						
60	100%						
66	100%						
73	100%						
80	100%						
	BELOW 25%						

AF50 FAN SIZE	FAN SPEED (rpm)						
	900	1000	1200	1500	1800	3000	3600
	WHEEL WIDTH (%)						
24	100%						
27	100%						
30	100%						
33	100%						
36	100%						
40	100%						
44	100%						
49	100%						
54	100%						
60	100%						
66	100%						
73	100%						
80	100%						
	BELOW 25%						

AcF CLASS III FAN SIZE	FAN SPEED (rpm)						
	900	1000	1200	1500	1800	3000	3600
	WHEEL WIDTH (%)						
24	100%						
27	100%						
30	100%						
33	100%						
36	100%						
40	100%						
44	100%						
49	100%						
54	100%						
60	100%						
66	100%						
73	100%						
	BELOW 30%						

AcF CLASS IV FAN SIZE	FAN SPEED (rpm)						
	900	1000	1200	1500	1800	3000	3600
	WHEEL WIDTH (%)						
24	100%						
27	100%						
30	100%						
33	100%						
36	100%						
40	100%						
44	100%						
49	100%						
54	100%						
60	100%						
66	100%						
73	100%						
	BELOW 25%						

PLR CLASS III FAN SIZE	FAN SPEED (rpm)						
	900	1000	1200	1500	1800	3000	3600
	WHEEL WIDTH (%)						
24	100%						
27	100%						
30	100%						
33	100%						
36	100%						
40	100%						
44	100%						
49	100%						
54	100%						
60	100%						
66	100%						
73	100%						
	BELOW 30%						

PLR CLASS IV FAN SIZE	FAN SPEED (rpm)						
	900	1000	1200	1500	1800	3000	3600
	WHEEL WIDTH (%)						
24	100%						
27	100%						
30	100%						
33	100%						
36	100%						
40	100%						
44	100%						
49	100%						
54	100%						
60	100%						
66	100%						
73	100%						
	BELOW 25%						

DWDI CLASS III FAN SIZE	FAN SPEED (rpm)						
	900	1000	1200	1500	1800	3000	3600
	WHEEL WIDTH (%)						
24						97	67
27						72	49
30						58	40
33						48	33
36						37	
40						30	
44						86	
49						70	
54						88	61
60						68	47
66						87	55
73						72	46
						37	32
						87	59

RTS FAN SIZE	FAN SPEED (rpm)						
	900	1000	1200	1500	1800	3000	3600
	WHEEL WIDTH (%) - [100% DIAMETER WHEEL]						
27							81
30							59
33						77	
36						56	
40							
44							
49							
54						77	
60						57	
66						75	
73						55	
80						80	
89						60	

RTS FAN SIZE	FAN SPEED (rpm)						
	900	1000	1200	1500	1800	3000	3600
	WHEEL DIAMETER (%) - [100% WIDTH WHEEL]						
27							81
30							
33							91
36							
40							
44							
49							
54							91
60							
66							90
73							
80							93
89							

DH S/30 FAN SIZE	FAN SPEED (rpm)						
	900	1000	1200	1500	1800	3000	3600
	WHEEL DIAMETER (%)						
264							100
294							
334							
364							
404							106
454							94
504							101
574							88
644							100
714							107
784							97
854							108
							89

LS/RIM S/30 FAN SIZE	FAN SPEED (rpm)						
	900	1000	1200	1500	1800	3000	3600
	WHEEL WIDTH (%) - 100% DIAMETER						
264							67
294							75
334							59
364							47
404							35
454							88
504							68
574							77
644							60
714							47
784							37
854							96
							63
							78
							51

LS/RIM S/30 FAN SIZE	FAN SPEED (rpm)						
	900	1000	1200	1500	1800	3000	3600
	WHEEL DIAMETER (%) - 100% WIDTH						
264							100
294							
334							
364							
404							
454							95
504							101
574							
644							100
714							90
784							98
854							100
							90

DH S/45 FAN SIZE	FAN SPEED (rpm)						
	900	1000	1200	1500	1800	3000	3600
	WHEEL DIAMETER (%)						
264							100
294							103
334							92
364							
404							
454							110%
504							101
574							106
644							88
714							107
784							97
854							107
							88

LS/RIM S/45 FAN SIZE	FAN SPEED (rpm)						
	900	1000	1200	1500	1800	3000	3600
	WHEEL WIDTH (%) - 100% DIAMETER						
264							71
294							84
334							55
364							67
404							43
454							54
504							34
574							35
644							76
714							89
784							59
854							70
							45
							96
							57
							34
							80
							46

LS/RIM S/45 FAN SIZE	FAN SPEED (rpm)						
	900	1000	1200	1500	1800	3000	3600
	WHEEL DIAMETER (%) - 100% WIDTH						
264							103
294							92
334							
364							
404							
454							105%
504							101
574							
644							95
714							100
784							90
854							99
							90

MATERIAL GAGES								
FAN TYPE	FAN SIZE	HOUSING		INLET	BEARING PEDESTAL			
		SIDES	SCROLL	BOX	BASE	SIDES	TOP	BEARING BAR
SW III/IV S/30	24-33 264-334	3/16	3/16	3/16	3/8	1/4	3/8	1/2
SW III/IV S/30 AF40/50 RTS S/45	36-49 364-504 24-49 27-49 264-504	1/4	1/4	1/4	3/8	3/8	3/8	5/8
SW III/IV S/30 AF40/50 RTS S/45 DWDI	54-73 574-854 54-80 54-89 574-854 54-73	3/8	1/4	1/4	1/2	3/8	1/2	1

FAN ALIGNMENT BASES	
CHANNEL LENGTH	"MC" CHANNEL SIZE
< 72"	6"
72" to 100"	8"
Over 100" to 200"	10"
Over 200" to 250"	12"
Over 250"	14"

Notes:

- 1 Shaft and bearing selections are custom and completed on a case per case basis. Contact NYB Sales for details.
- 2 Fan pricing is custom and completed on a case per case basis. Contact NYB Sales For Details
- 3 Contact Sales for API and PIP Spec Considerations.