

MAIN ID FAN SPECIFICATIONS			
FAN PERFORMANCE			
	Design	Max@ 400 HP/1100 rpm	
Flow, lb/hr	174,600	230,400	
Flow, ACFM	56,700	90,000	
Inlet °F	127	127	
Inlet psia	11.84	11.84	
Fan DP "W.C.	16.75	20.0	
Gas density	.0512 lb/ft ³	.0512	
Fan curves for 1180 rpm, 1100 rpm, 1000 rpm, 900 rpm attached			
OPERATION AND CONTROL			
Control of Air Flow: Variable Frequency Drive			
Operation : 24 hrs/day			
Operational Instrumentation: Housing Vibration Switch, Excessive Bearing Temperature Detection			
MATERIALS OF CONSTRUCTION			
Wheel: Hastelloy C-276			
Housing: .25" rubber lined ASTM A-36 Steel			
Shaft sleeve: Hastelloy C-276			
Shaft: ASTM A-36 Steel			
Upset conditions: gas with brine containing 69 ppmv HCl, 2 ppmv HF, 360 ppmv SO ₂ , 250 ppmv NO, 76 ppmv P ₂ O ₅ , 15 lb/hr. ash/salt, pH 3-11, Dissolved salts up to 9% Na ₂ CO ₃ , NaSO ₃ , NaHCO ₃			
FAN TYPE			
Wheel blade: single backwardly inclined centrifugal		Speed (Design/max): 1180 rpm/1,500 rpm	
Rotation: Clockwise			
Access Openings: for wheel removal, cleanouts on scroll & inlet box			
MECHANICAL			
Selection: Barron Size 767/767, Series T10A, SI (109.9%), SW (3SI) or equal			
Brake HP	408	Motor HP	400
Wheel			
Diameter	76.875"	Thickness	.25"
Blade thick	.25"	Backplate	.50"
Housing			
Pressure rating	-30" to +12" W.C.		
Drive			
Bearings: double roll ball		Shaft Seals: grease purged packing gland	

MAIN ID FAN

SP-800-M-099

Rev. 0
05/08/00
Page 2 of 3

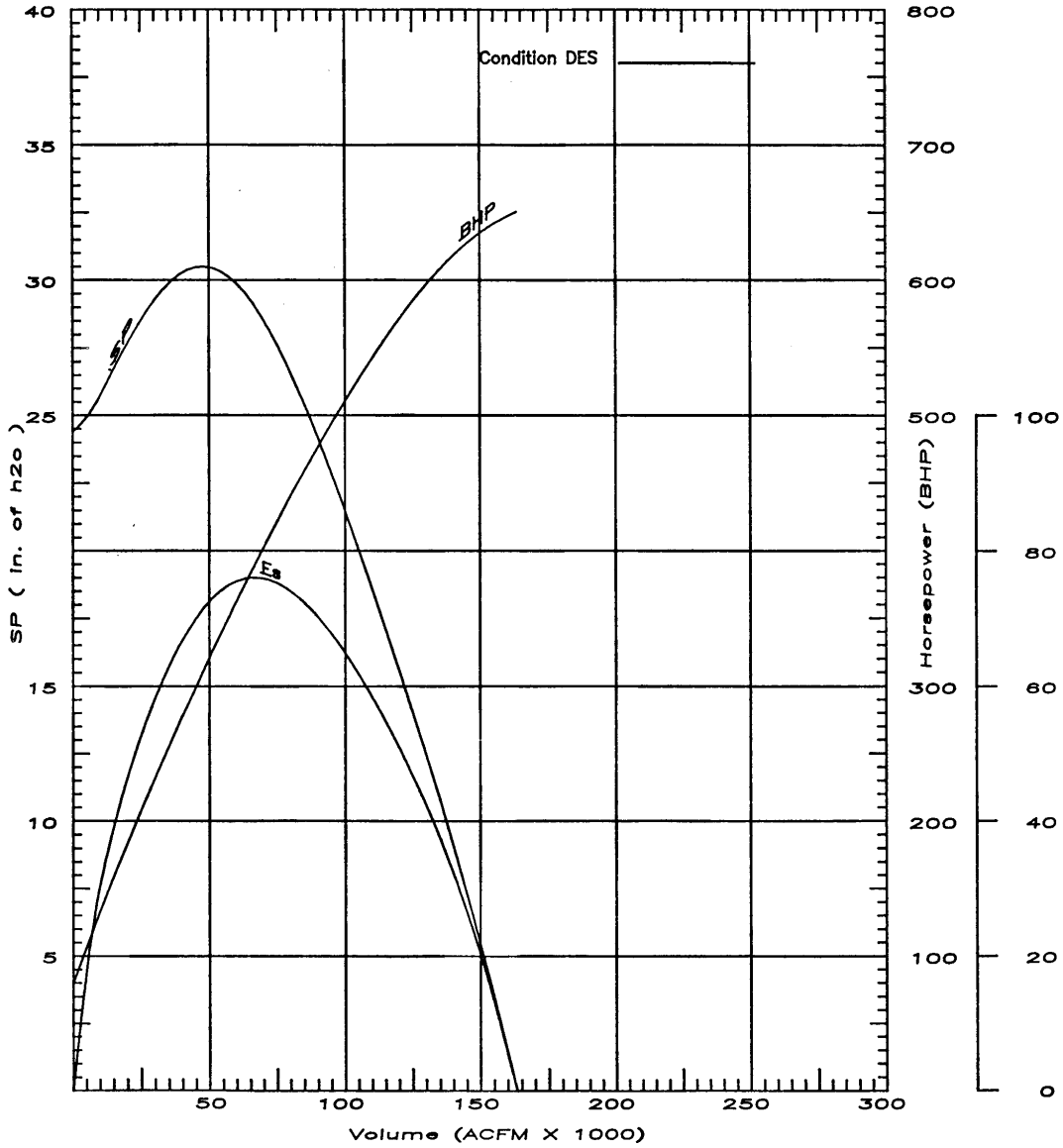


BARRON INDUSTRIES, INC.

Fan Size	767/ 767	Cond.	1	2	3
Fan Series	T10A - 3S1	Den. (Lb/cu.ft.)	.0512		
Fan Type	SI(109.90%)SW	RPM	1180.		

Ref: FORD, BACON, & DAVIS

Date: 6/ 3/88



Static Pres. and BHP vs. Vol.

MAIN ID FAN

SP-800-M-099

Rev. 0

05/08/00

Page 3 of 3

CERTIFIED DRAWING



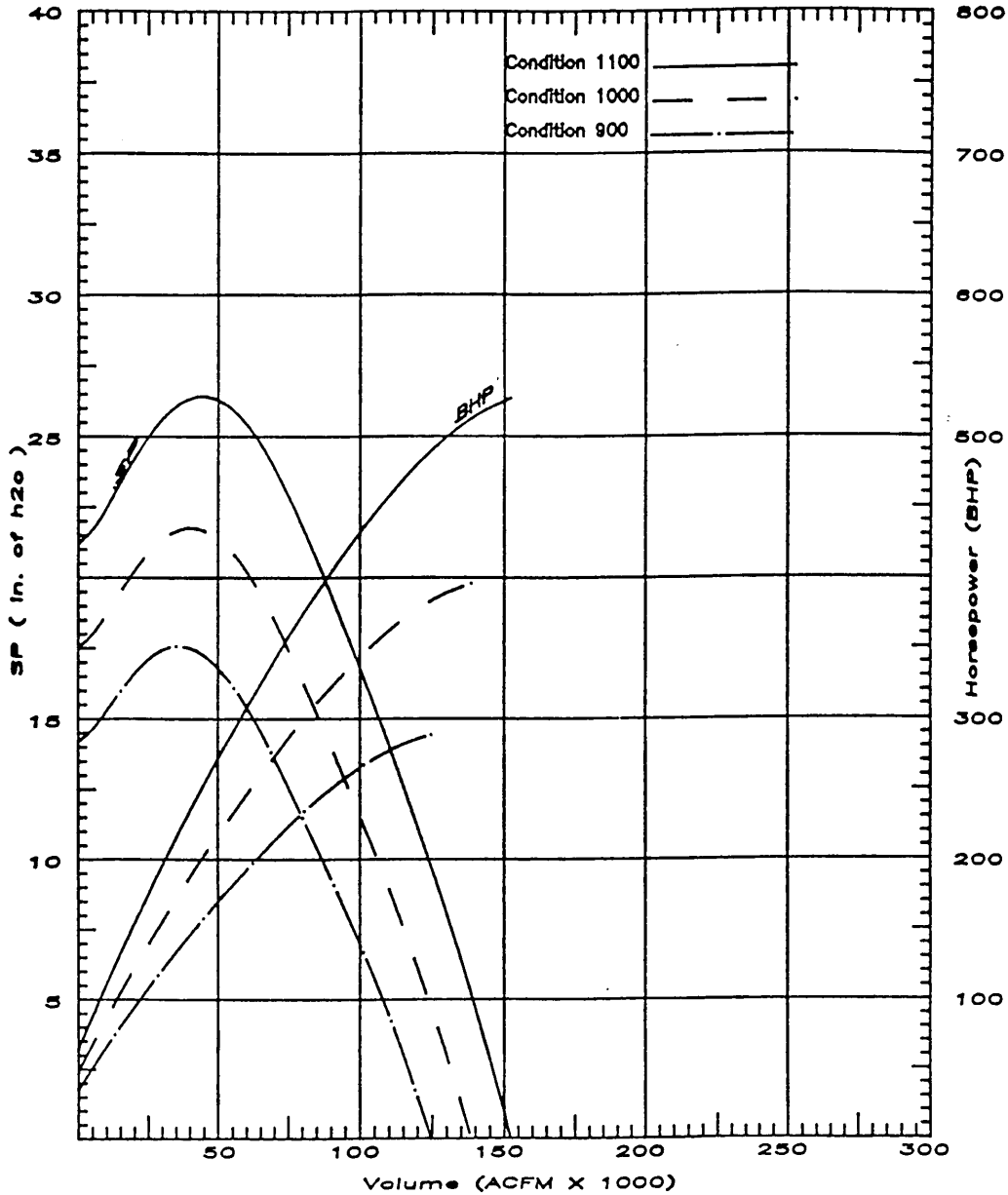
BARRON INDUSTRIES, INC.

BARRON INDUSTRIES

Fan Size	787/ 787	Cond.	1	2	3
Fan Series	T10A - 3S1	Den. (Lb/cu.ft.)	.0512	.0512	.0512
Fan Type	SI(100.00%)SW	RPM	1100.	1000.	900.

Ref: FORD, BACON, & DAVIS

Date: 6/ 3/88



Static Pres. and BHP vs. Vol.