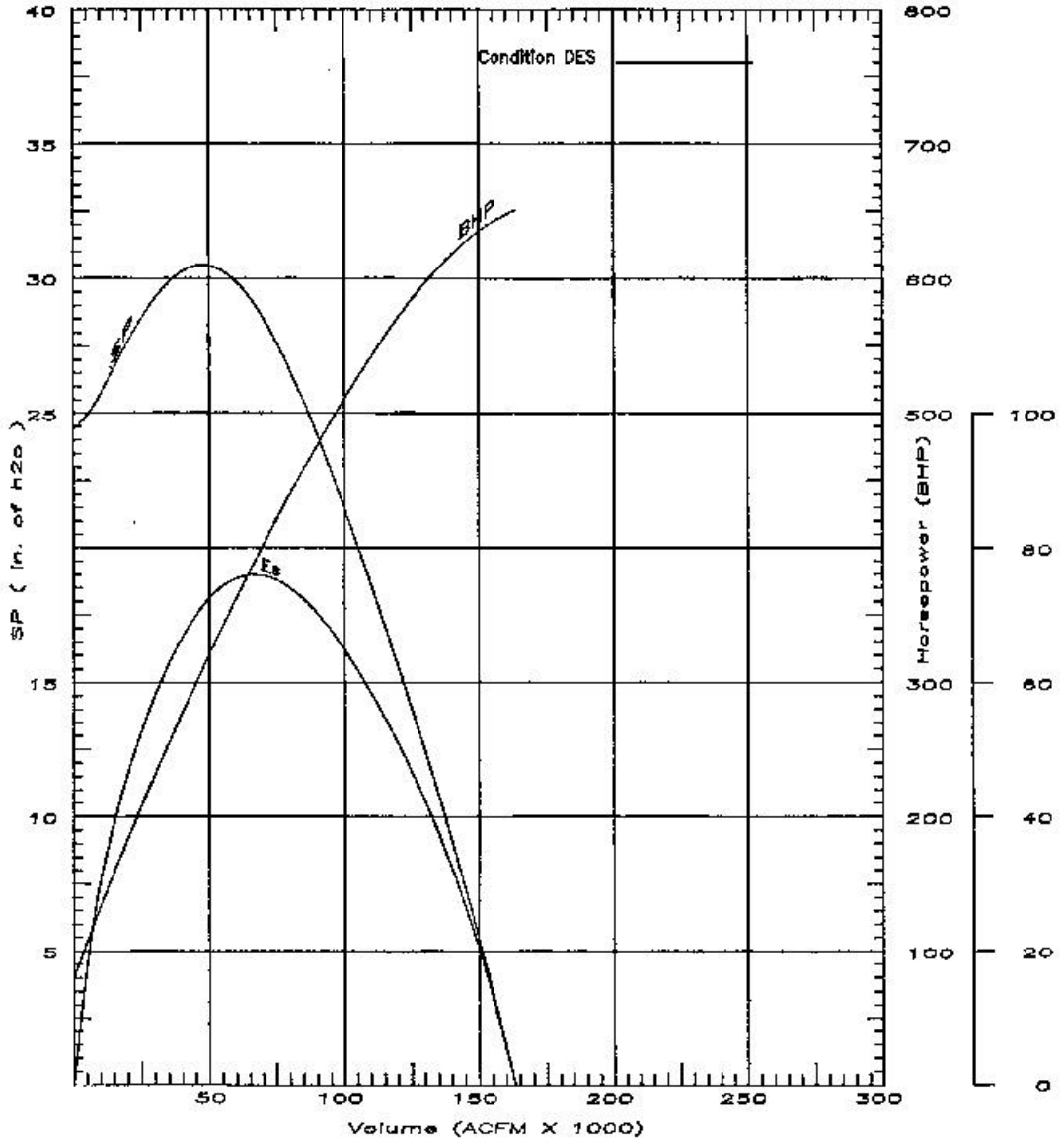
MAIN ID FAN SPECIFICATIONS		
FAN PERFORMANCE		
	Design	Max@ 400 HP/1100 rpm
Flow, lb/hr	174,600	230,400
Flow, ACFM	56,700	90,000
Inlet °F	127	127
Inlet psia	11.84	11.84
Fan DP "W.C.	16.75	20.0
Gas density	.0512 lb/ft^3	.0512
Fan curves for 1180 rpm, 1100 rpm, 1000 rpm, 900 rpm attached		
OPERATION AND 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_2O_5, 15 lb/hr. ash/salt, pH 3-11, Dissolved salts up to 9% Na_2CO_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			

BARRON INDUSTRIES, INC.

Fan Size	787/ 787	Cond.	1	2	3
Fan Series	T10A — 351	Den. (Lb/cu.ft.)	.0512		
Fan Type	SI(109.90%)SW	RPM	1180.		

Ref: FORD, BACON, & DAVIS Date: 8/ 3/88



Static Pres. and BHP vs. Vol.

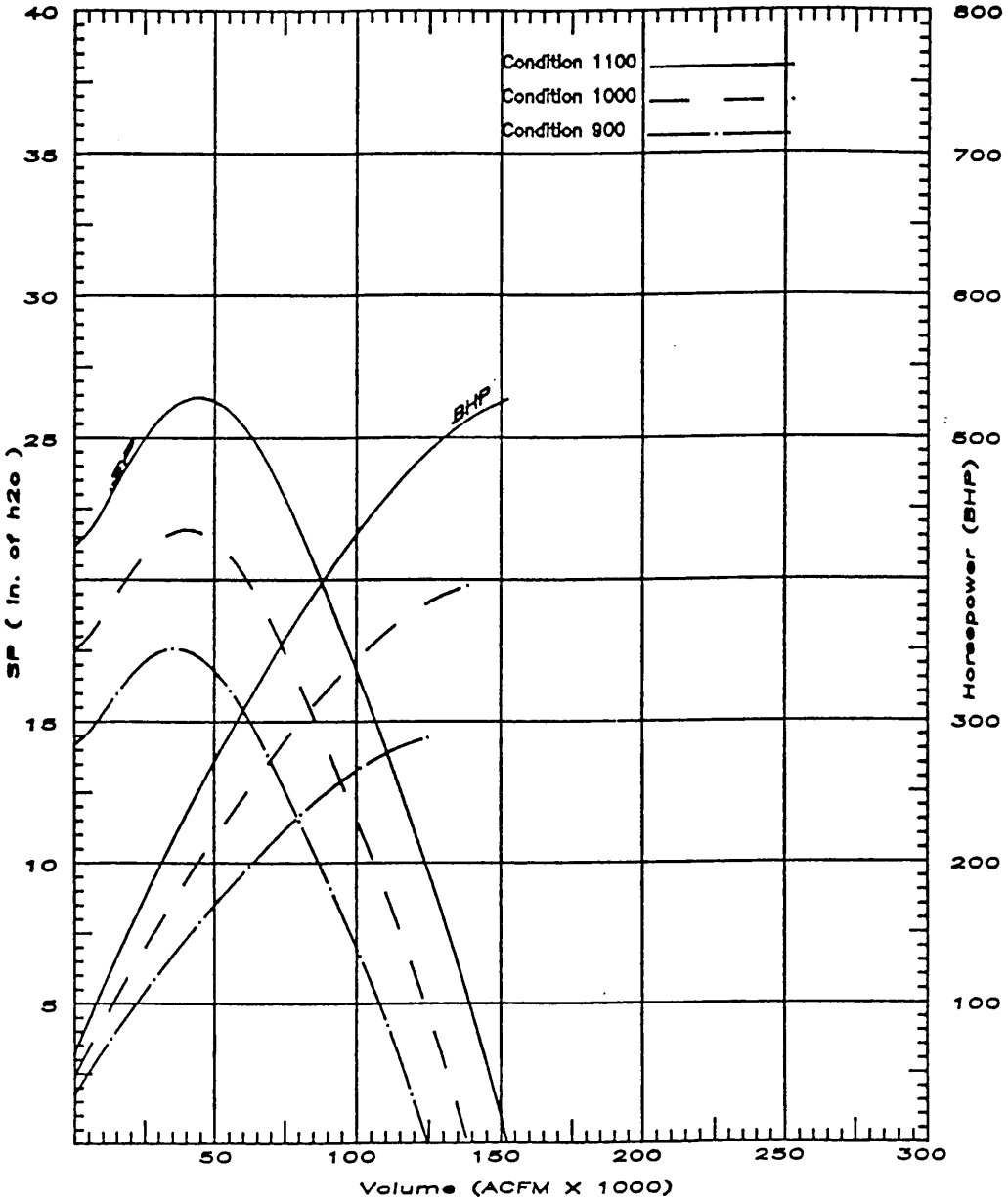
CERTIFIED DRAWING

BARRON INDUSTRIES, INC.

BARRON INDUSTRIES

Fan Size	767/ 767	Cond.	1	2	3
Fan Series	T10A — 3S1	Den. (Lb/cu.ft.)	.0512	.0512	.0512
Fan Type	SI(109.90%)SW	RPM	1100.	1000.	900.

Ref: FORD, BACON, & DAVIS Date: 6/ 3/88



Static Pres. and BHP vs. Vol.