



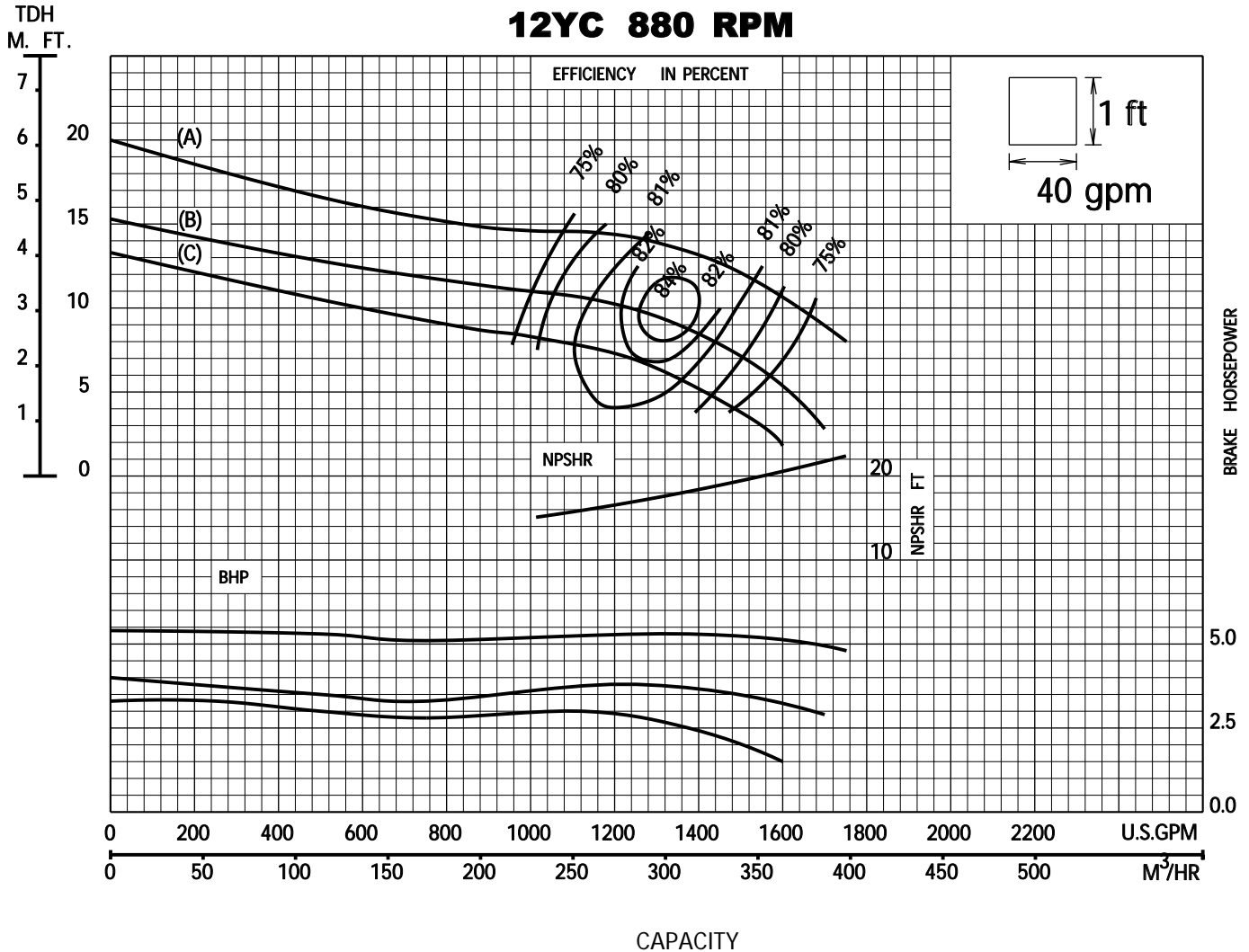
480 Series Vertical Turbine

900 RPM Performance Curves
Enclosed & Semi-Open Impellers



TURBINE PUMP CURVE

FEBRUAR Y 1995



IMPELLER DATA	
Impeller Number	4778
Material	BRONZE
Type	CLOSED
Thrust Factor	K=14.20
Eye Area	38.00 sq. in.
Weight	19.00 lb.
TRIM:	(A) 9.797" X 35 (B) 9.203" X 35 (C) 8.734" X 35
Minimum submergence above eye of bottom impeller: 36 in.	

BOWL DATA	
Bowl Number	4772 C.I./ENAM.
Bowl Dia.	12.188"max 11.750"min
Max. No. Stages	20
One Stage Weight	415 lb
Add'l Stage Weight	140 lb
Std. Shaft Dia.	1.688 in
Std. Lateral	0.875 in
Discharge Size	8 - 10 in
Suction Size	8 - 10 in
Max. Sphere Size	1.500 in
Max Operation P.S.I.	584 (special)

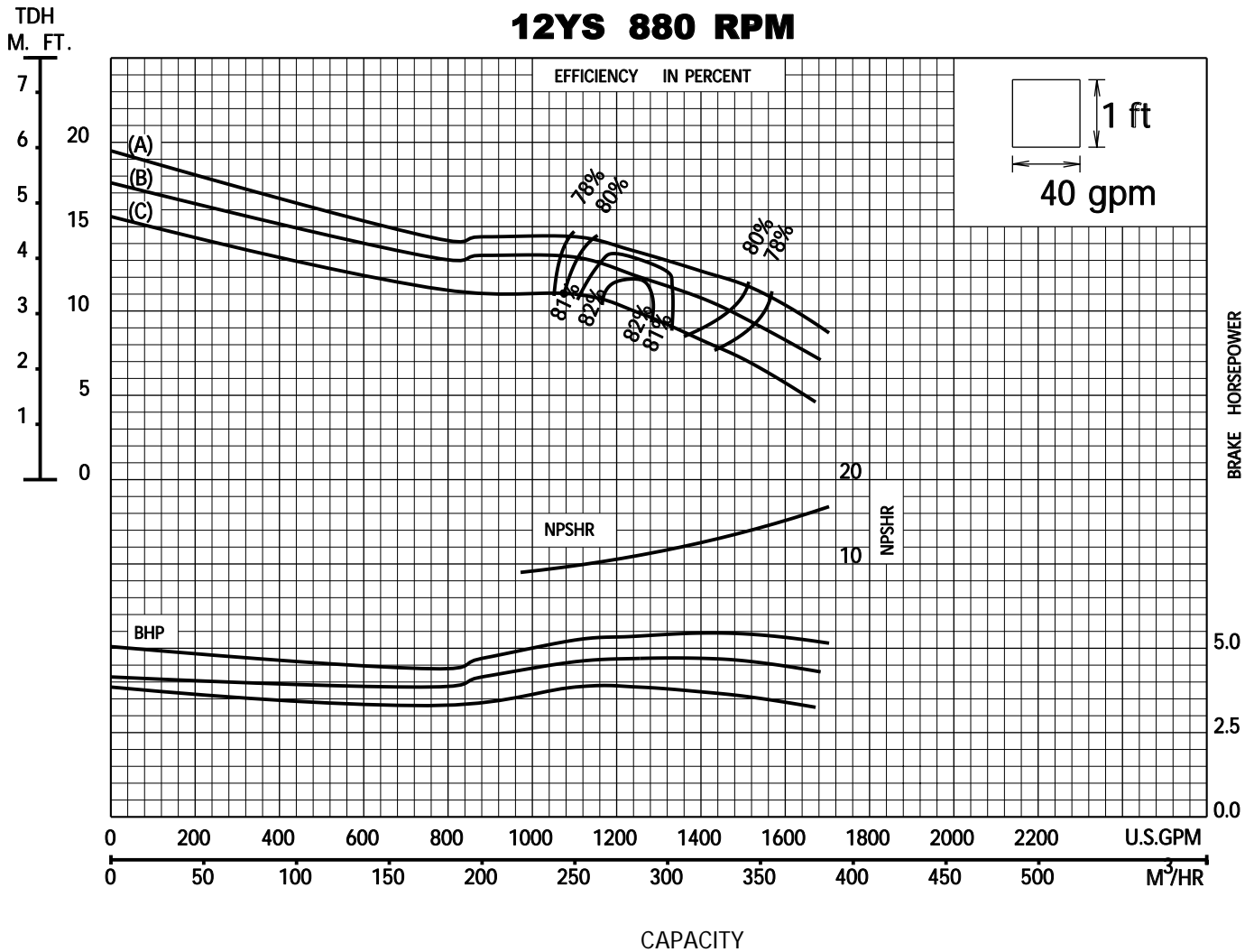
EFFICIENCY CORRECTION				
Number of Bowls	1	2	3	4
Change as follows	-4	-2	-1	0
Change in efficiency may affect both head and horsepower.				

Performance based on pumping clear, fresh water at a temperature not over 85° F., and free of gas, air or abrasives, and with bowls properly adjusted and submerged.



TURBINE PUMP CURVE

NOVEMBER 1998



IMPELLER DATA	
Impeller Number	4778-S
Material	BRONZE
Type	SEMI-OPEN
Thrust Factor	K=16.50
Eye Area	38.00 sq. in.
Weight	19.00 lb.
TRIM:	(A) 9.500" X 35 (B) 9.000" X 35 (C) 8.625" X 35
Minimum submergence above eye of bottom impeller: 36 in.	

BOWL DATA	
Bowl Number	4772-S,C.I./ENAM.
Bowl Dia.	12.188"max 11.750"min
Max. No. Stages	23
One Stage Weight	415 lb
Add'l Stage Weight	140 lb
Std. Shaft Dia.	1.688 in
Std. Lateral	0.875 in
Discharge Size	8 - 10 in
Suction Size	8 - 10 in
Max. Sphere Size	1.500 in
Max Operation P.S.I.	584 (special)

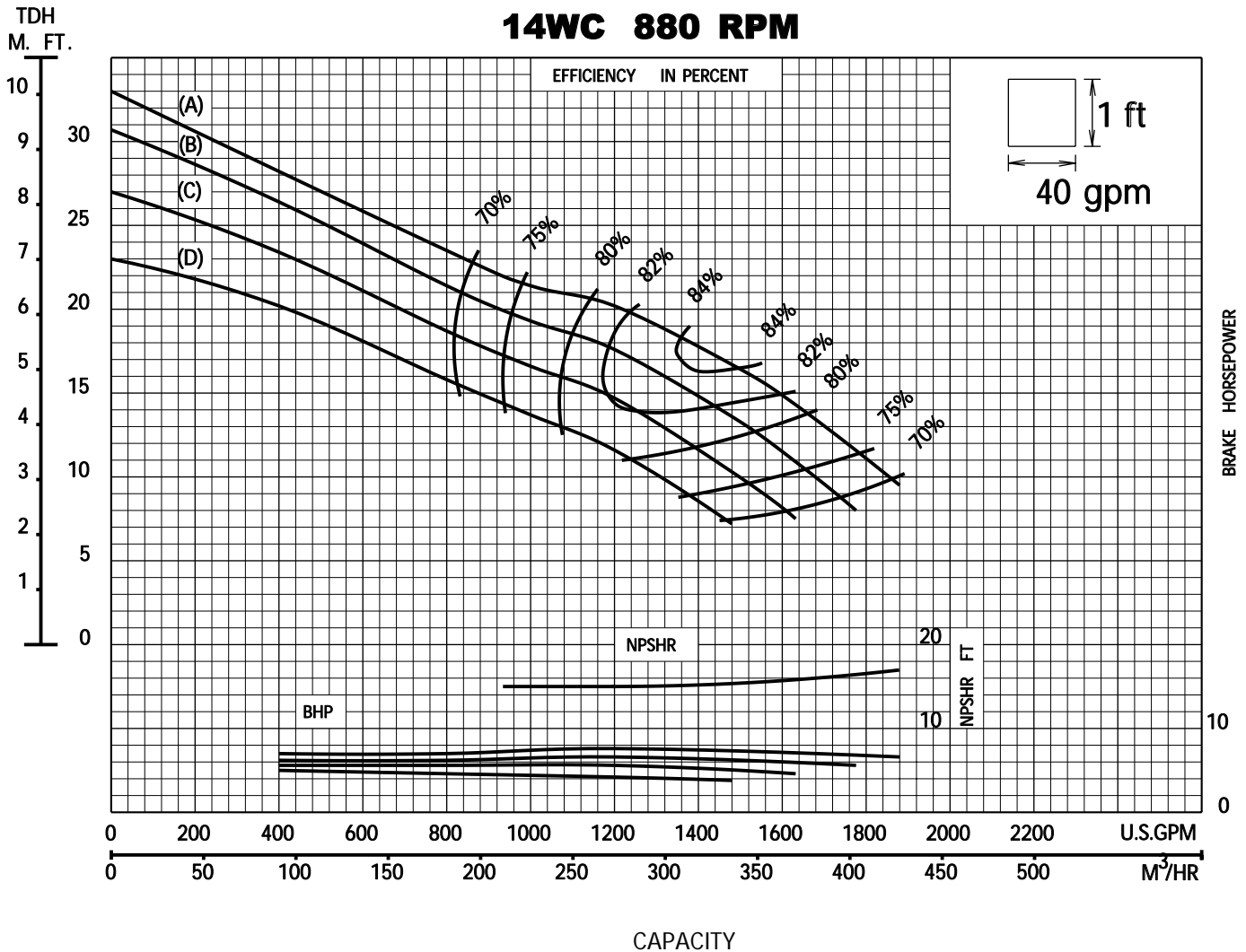
EFFICIENCY CORRECTION				
Number of Bowls	1	2	3	4
Change as follows	-4	-2	-1	0
Change in efficiency may affect both head and horsepower.				

Performance based on pumping clear, fresh water at a temperature not over 85° F., and free of gas, air or abrasives, and with bowls properly adjusted and submerged.



TURBINE PUMP CURVE

JUL Y 1997



IMPELLER DATA	
Impeller Number	4151
Material	BRONZE
Type	CLOSED
Thrust Factor	K=24.80
Eye Area	47.30 sq. in.
Weight	31.75 lb.
TRIM:	(A) 11.813" X 35 (B) 11.500" X 35 (C) 11.000" X 35 (D) 10.500" X 35
Minimum submergence above eye of bottom impeller: 34 in.	

BOWL DATA	
Bowl Number	4152 C.I./ENAM.
Bowl Dia.	14.063"max 13.750"min
Max. No. Stages	16
One Stage Weight	500 lb
Add'l Stage Weight	185 lb
Std. Shaft Dia.	1.938 in
Std. Lateral	0.875 in
Discharge Size	10-12 in
Suction Size	10-12 in
Max. Sphere Size	1.500 in
Max Operation P.S.I.	540 (special)

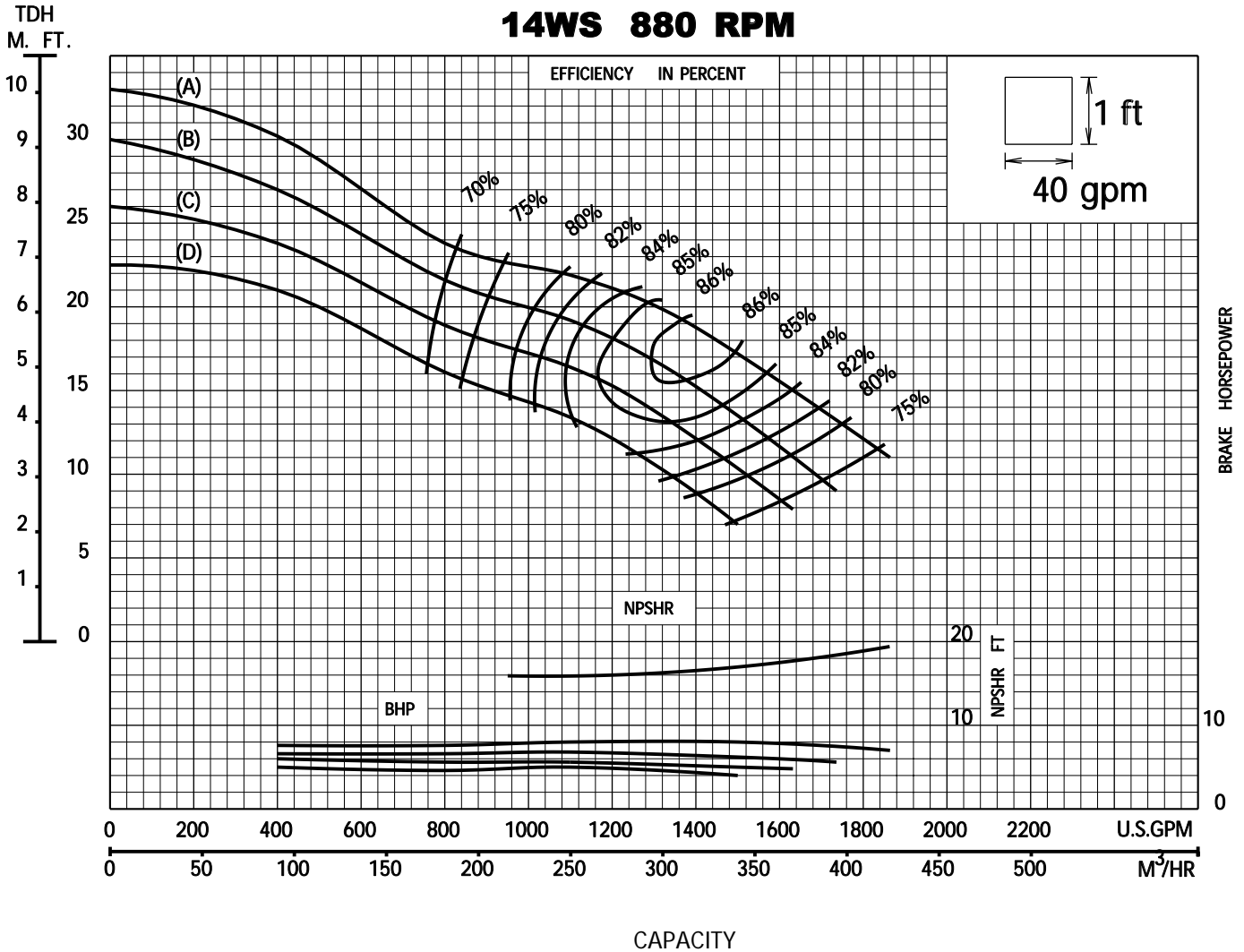
EFFICIENCY CORRECTION				
Number of Bowls	1	2	3	4
Change as follows	-4	-2	-1	0
Change in efficiency may affect both head and horsepower.				

Performance based on pumping clear, fresh water at a temperature not over 85° F., and free of gas, air or abrasives, and with bowls properly adjusted and submerged.



TURBINE PUMP CURVE

JUL Y 1997



IMPELLER DATA	
Impeller Number	4153
Material	BRONZE
Type	SEMI-OPEN
Thrust Factor	K=26.20
Eye Area	47.30 sq. in.
Weight	23.25 lb.
TRIM: (A) 11.813" X 35	
(B) 11.500" X 35	
(C) 11.000" X 35	
(D) 10.500" X 35	
Minimum submergence above eye of top impeller: 34 in.	

BOWL DATA	
Bowl Number	4152-S,C.I./ENAM.
Bowl Dia.	14.063"max 13.750"min
Max. No. Stages	16
One Stage Weight	500 lb
Add'l Stage Weight	185 lb
Std. Shaft Dia.	1.938 in
Std. Lateral	0.875 in
Discharge Size	10-12 in
Suction Size	10-12 in
Max. Sphere Size	1.500 in
Max Operation P.S.I.	540 (special)

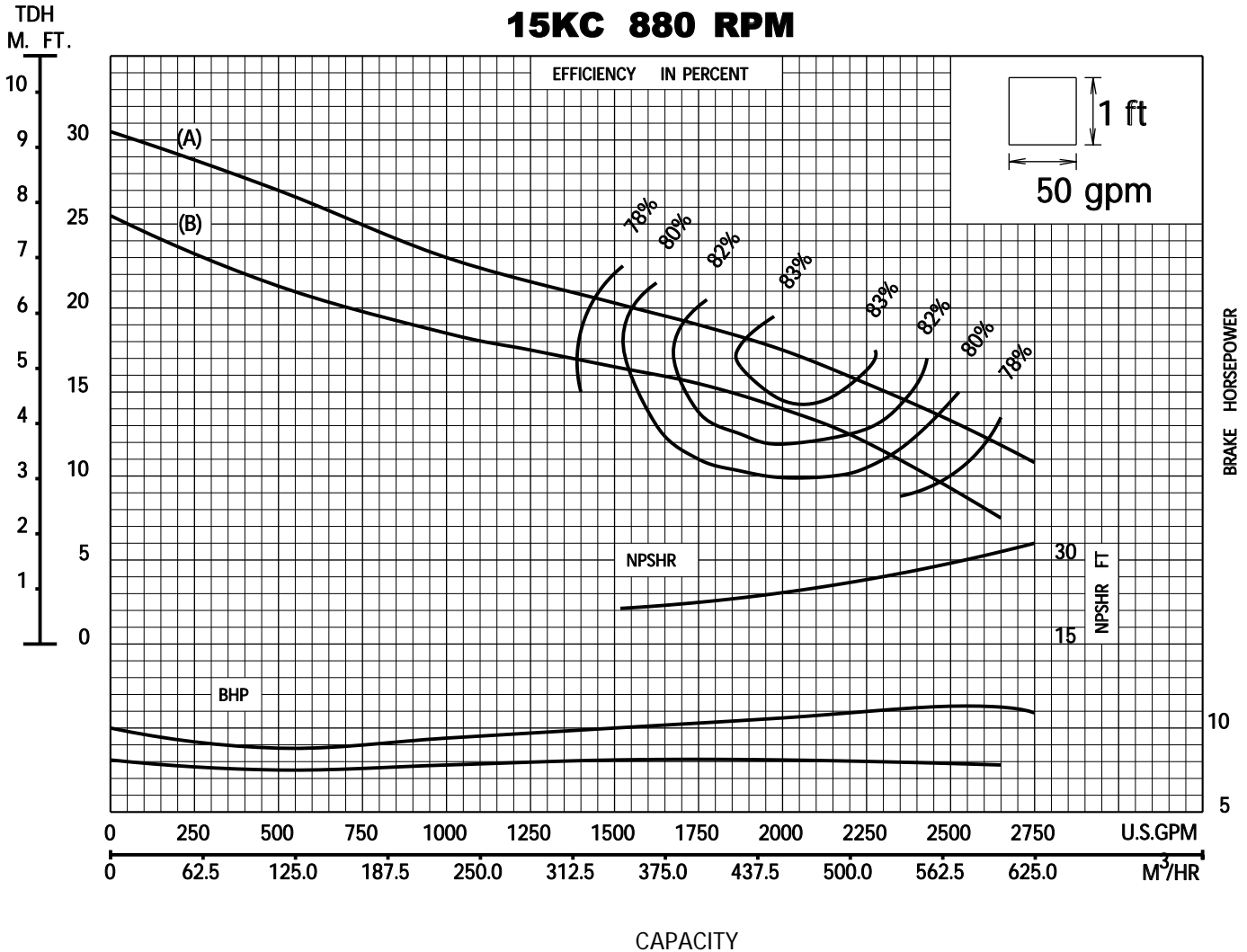
EFFICIENCY CORRECTION				
Number of Bowls	1	2	3	4
Change as follows	-4	-2	-1	0
Change in efficiency may affect both head and horsepower.				

Performance based on pumping clear, fresh water at a temperature not over 85° F., and free of gas, air or abrasives, and with bowls properly adjusted and submerged.



TURBINE PUMP CURVE

FEBRUAR Y 1995



IMPELLER DATA	
Impeller Number	0004
Material	BRONZE
Type	CLOSED
Thrust Factor	K=28.00
Eye Area	63.60 sq. in.
Weight	30.00 lb.
TRIM: (A) 11.850" X 34 (B) 11.000" X 34 Minimum submergence above eye of bottom impeller: 36 in.	

BOWL DATA	
Bowl Number	0001 C.I./ENAM.
Bowl Dia.	15.250"max 14.750"min
Max. No. Stages	15
One Stage Weight	510 lb
Add'l Stage Weight	195 lb
Std. Shaft Dia.	1.938 in
Std. Lateral	0.688 in
Discharge Size	10-12 in
Suction Size	10-12 in
Max. Sphere Size	2.250 in
Max Operation P.S.I.	540 (special)

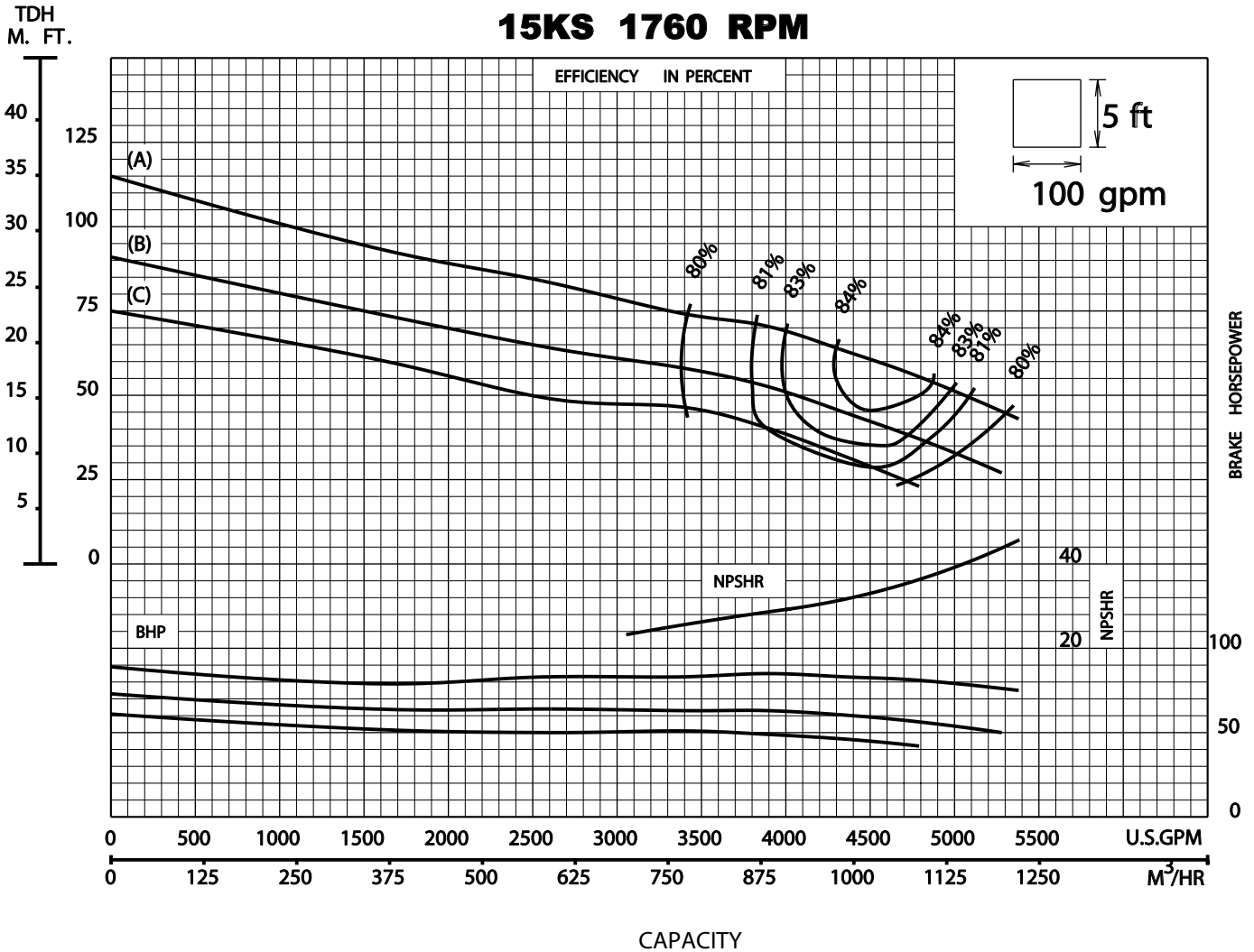
EFFICIENCY CORRECTION				
Number of Bowls	1	2	3	4
Change as follows	-3	-2	-1	0
Change in efficiency may affect both head and horsepower.				

Performance based on pumping clear, fresh water at a temperature not over 85° F., and free of gas, air or abrasives, and with bowls properly adjusted and submerged.



TURBINE PUMP CURVE

SEPTEMBER 1998



IMPELLER DATA	
Impeller Number	0004-S
Material	BRONZE
Type	SEMI-OPEN
Thrust Factor	K=30.00
Eye Area	63.60 sq. in.
Weight	21.00 lb.
TRIM: (A) 11.850" x 34° (B) 11.000" x 34° (C) 10.500" x 34° Minimum submergence above eye of bottom impeller: 36 in.	

BOWL DATA	
Bowl Number	0001-S,C.I./ENAM.
Bowl Dia.	15.250"max 14.750"min
Max. No. Stages	6
One Stage Weight	375 lb
Add'l Stage Weight	170 lb
Std. Shaft Dia.	1.938 in
Std. Lateral	0.688 in
Discharge Size	10-12 in
Suction Size	10-12 in
Max. Sphere Size	2.250 in
Max Operation P.S.I.	540 (special)

EFFICIENCY CORRECTION				
Number of Bowls	1	2	3	4
Change as follows	-3	-2	-1	0
Change in efficiency may affect both head and horsepower.				

Performance based on pumping clear, fresh water at a temperature not over 85° F., and free of gas, air or abrasives, and with bowls properly adjusted and submerged.