

PERFORMANCE CURVES

KF

MODELS: KF2110, KF31510, KF3210, KF4310 and KF6410

3550 RPM, 1750 RPM, 2950 RPM and 1450 RPM

Issued November 1, 2000

Performance curves are common among ANSI, ISO (flanged) and JIS (flanged) pumps.

ANSI Model	size (inch)	ISO Model	size (mm)	JIS Model	size (mm)
KF2110	2 x 1 x 10	KFi2110	50 x 25 x 250	KFj2110	50 x 25 x 250
KF31510	3 x 1.5 x 10	KFi31510	80 x 40 x 250	KFj31510	80 x 40 x 250
KF3210	3 x 2 x 10	KFi3210	80 x 50 x 250	KFj3210	80 x 50 x 250
KF4310	4 x 3 x 10	KFi4310	100 x 80 x 250	KFj4310	100 x 80 x 250
KF6410	6 x 4 x 10	KFi6410	150 x 100 x 250	KFj6410	150 x 100 x 250

LITFAPU97J R00 11/00

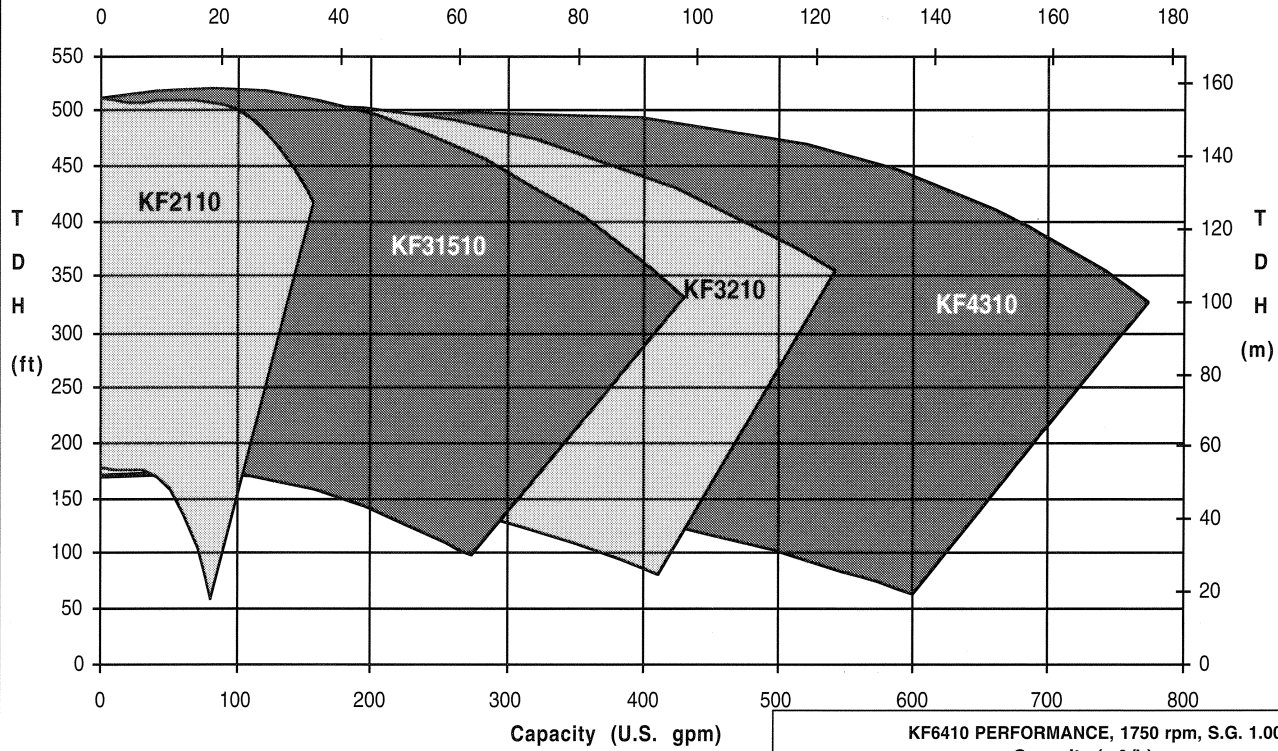
ANSI MAC®

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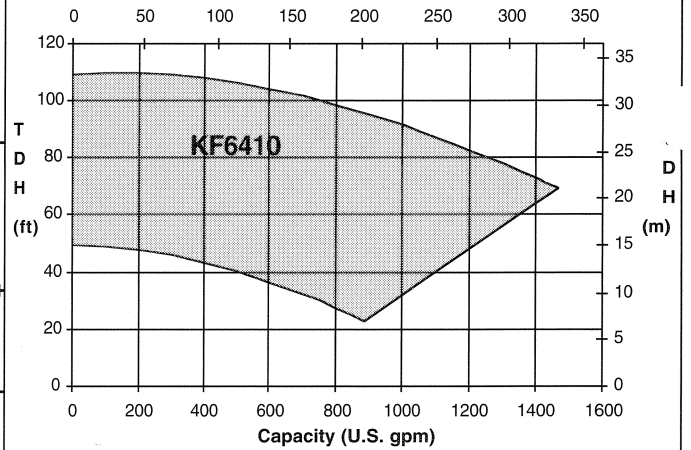
KF PUMP FAMILY, 3550 RPM, S.G. 1.00

Capacity (m³/h)



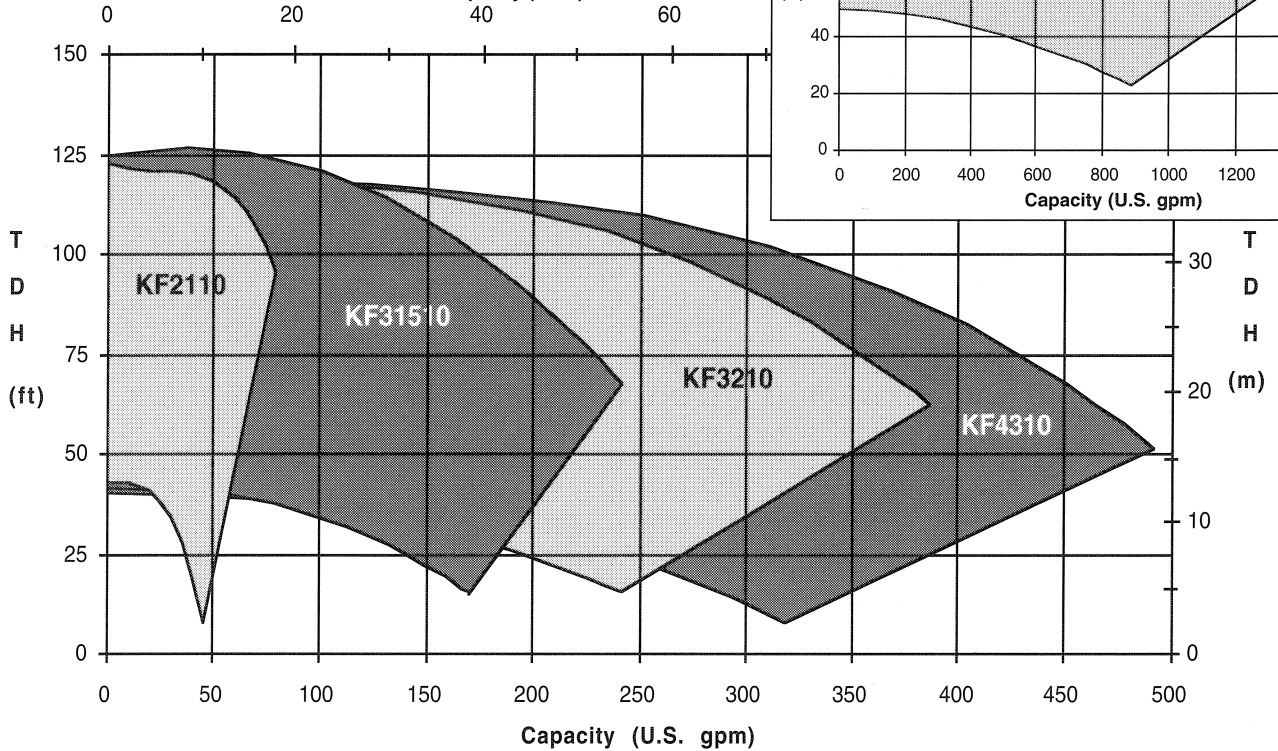
KF6410 PERFORMANCE, 1750 rpm, S.G. 1.00

Capacity (m³/h)



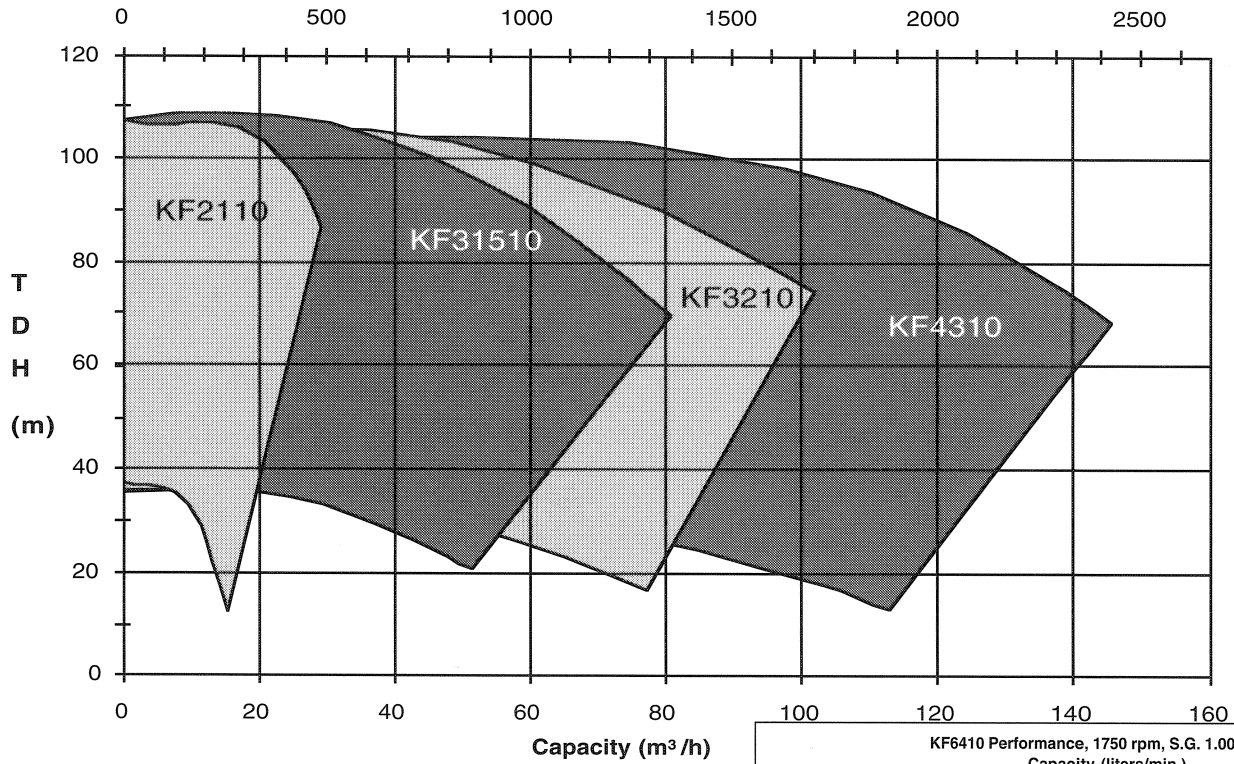
KF PUMP FAMILY, 1750 RPM, S.G. 1.00

Capacity (m³/h)



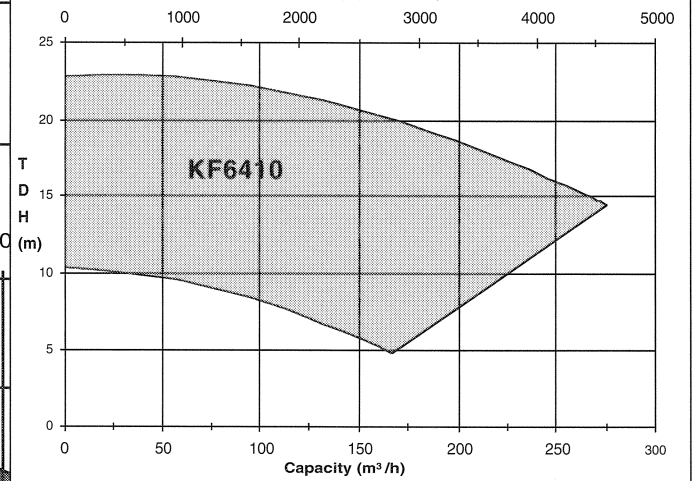
KF PUMP FAMILY, 2950 RPM, S.G. 1.00

Capacity (liters/min)



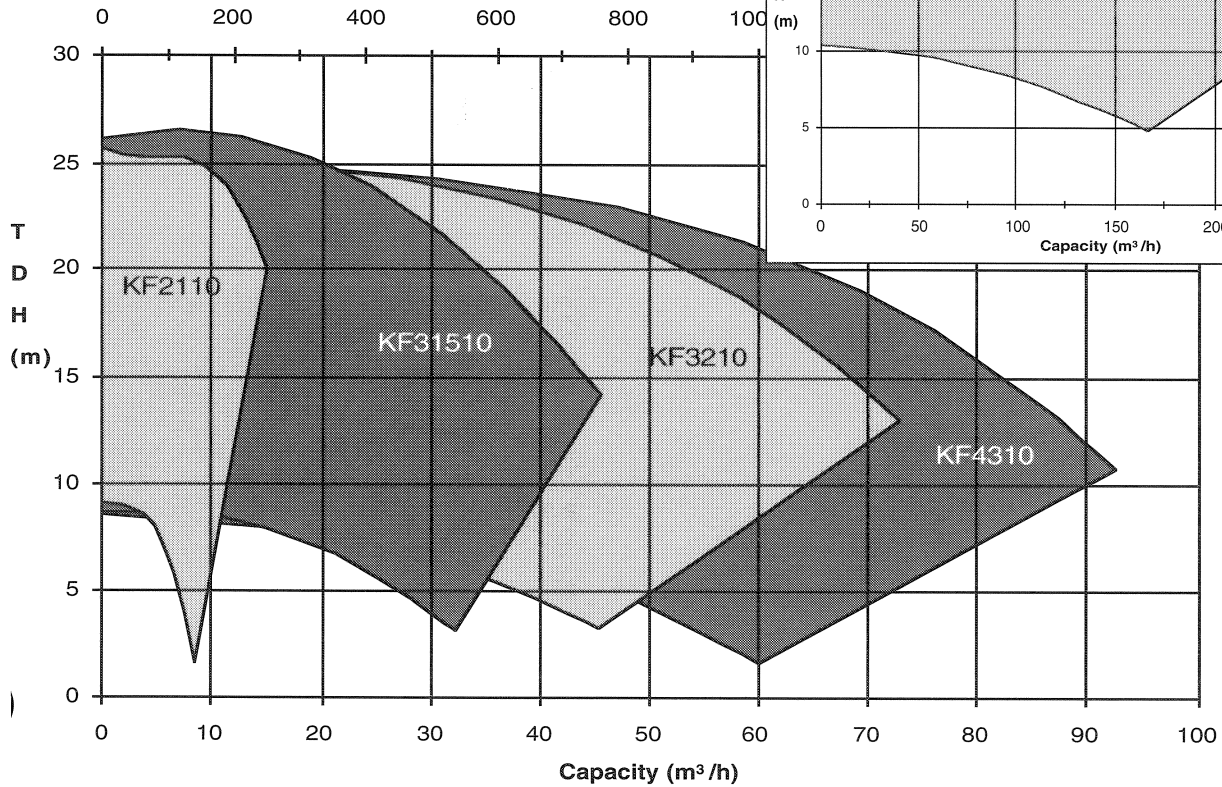
KF6410 Performance, 1750 rpm, S.G. 1.00

Capacity (liters/min.)



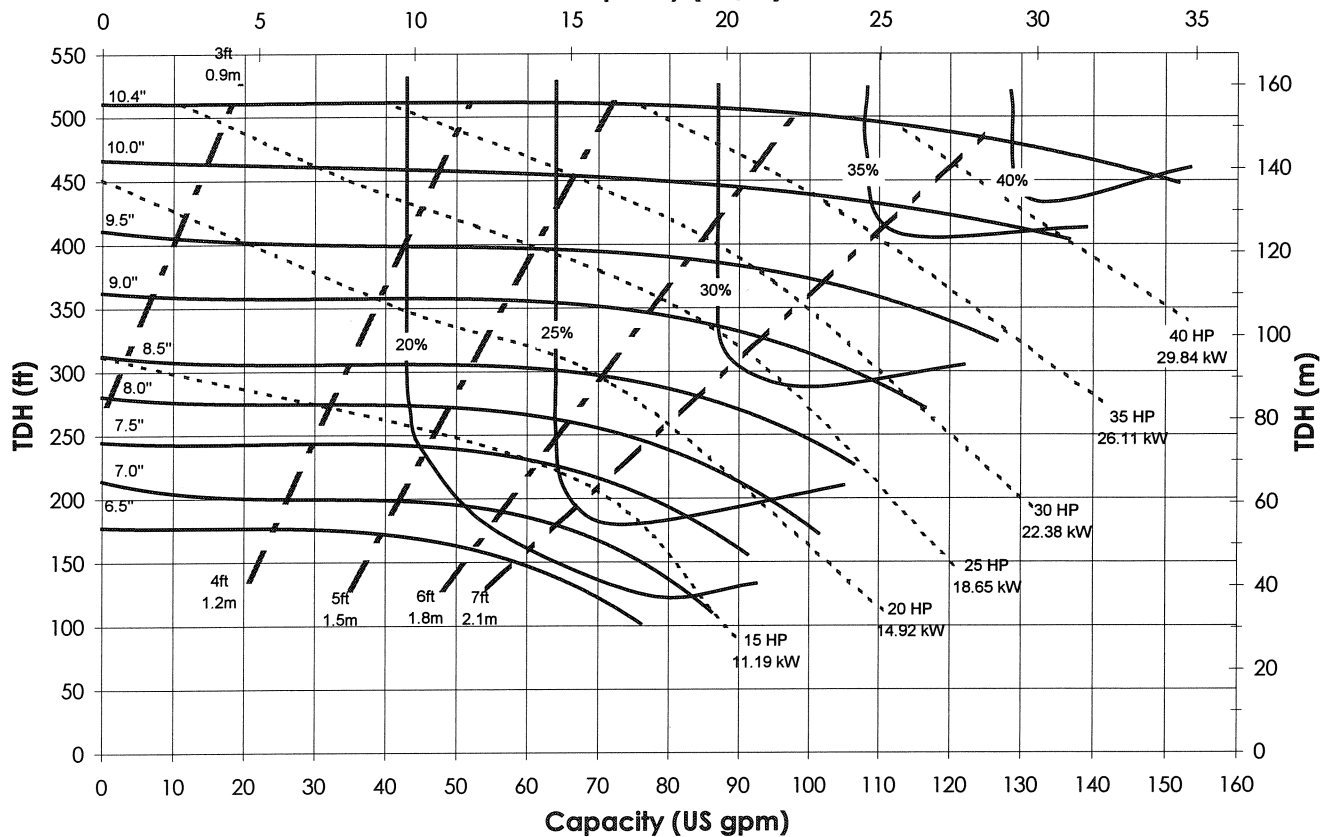
KF PUMP FAMILY, 1450 RPM, S.G. 1.00

Capacity (liters/min)



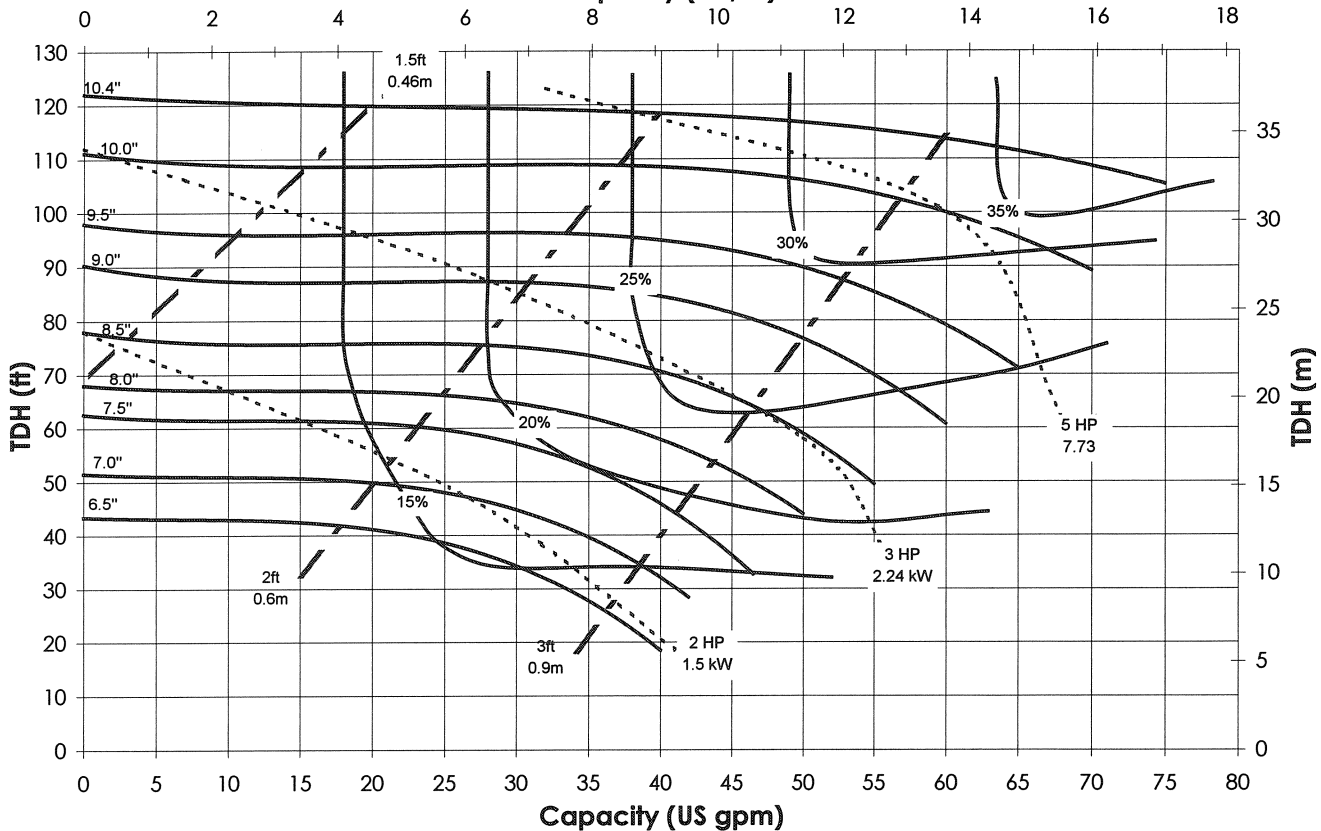
KF2110, 3550 RPM, S.G. 1.00

Capacity (m³/hr)



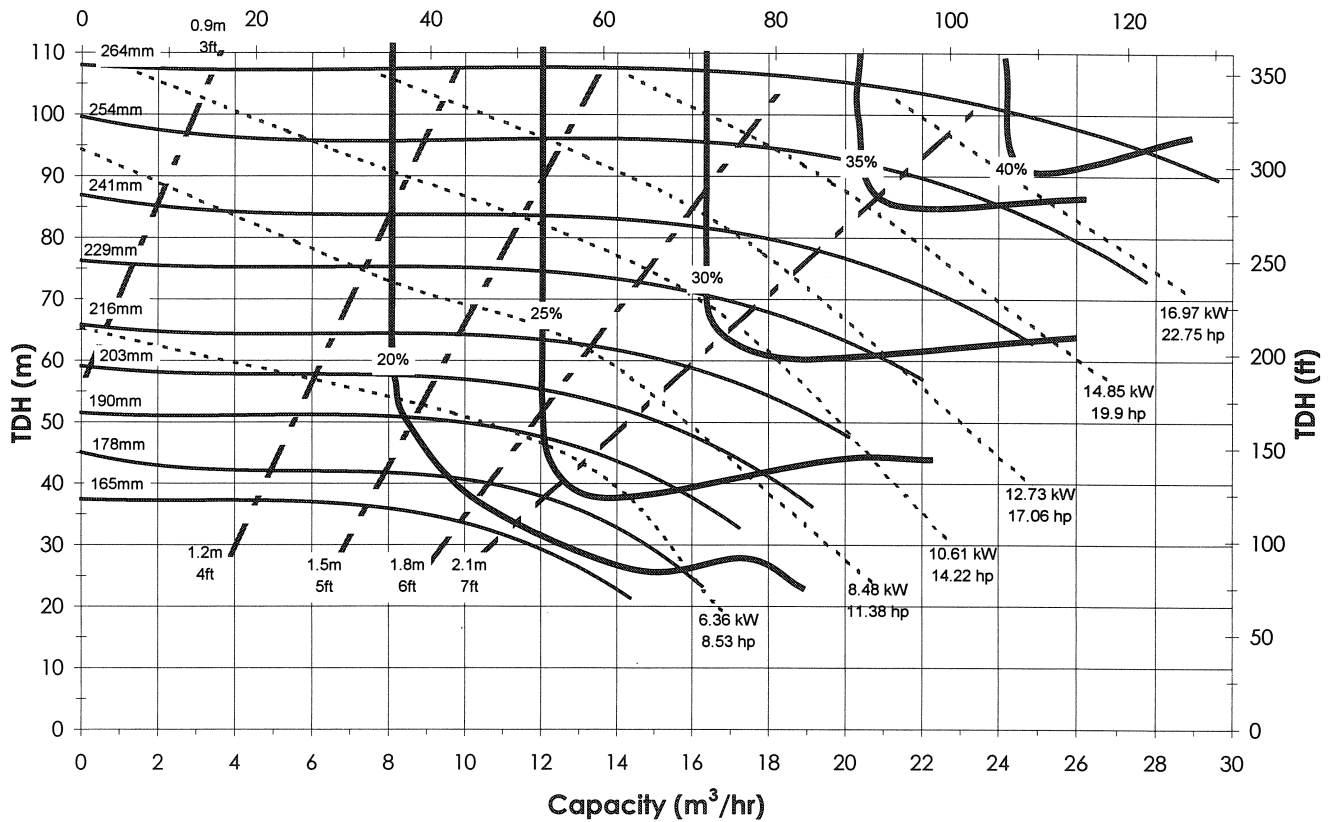
KF2110, 1750 RPM, S.G. 1.00

Capacity (m³/hr)



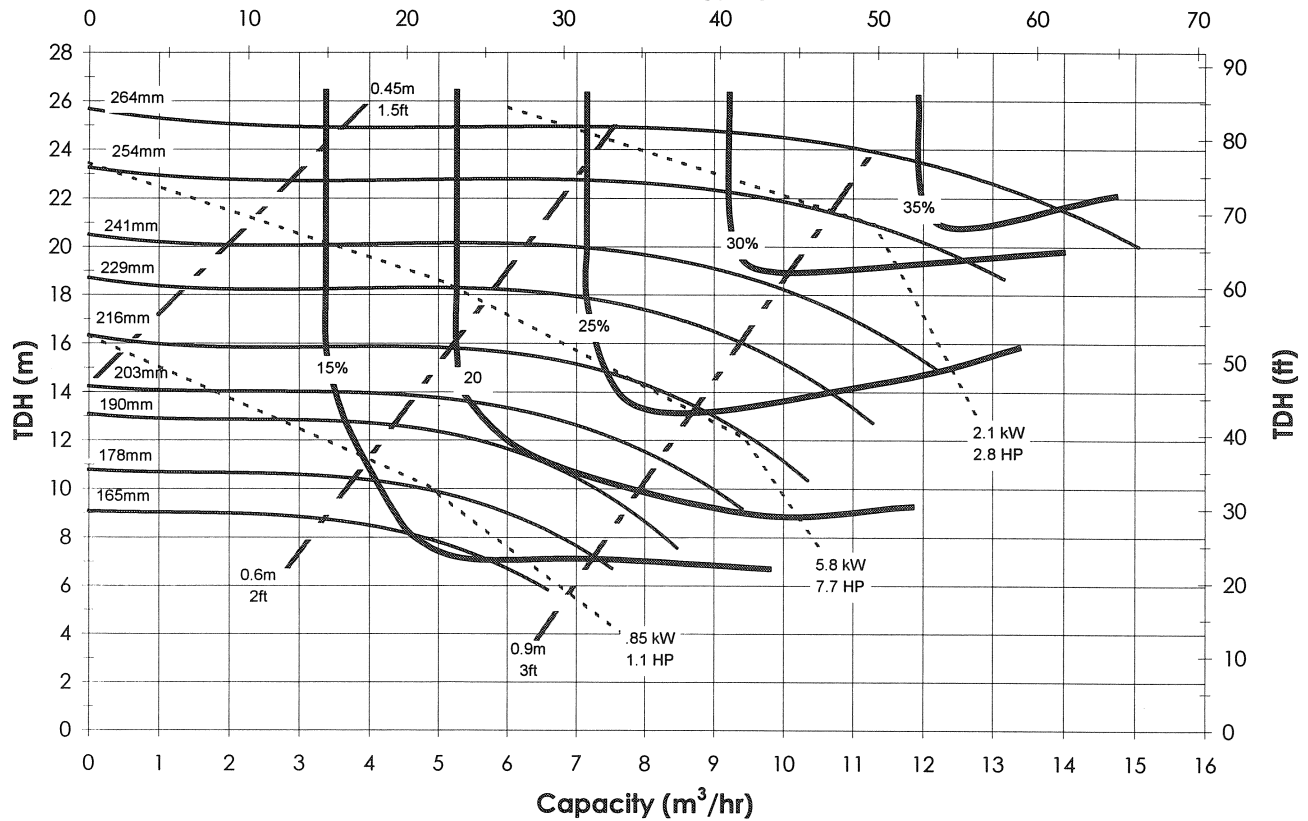
KF2110, 2950 RPM, S.G. 1.00

Capacity (US gpm)



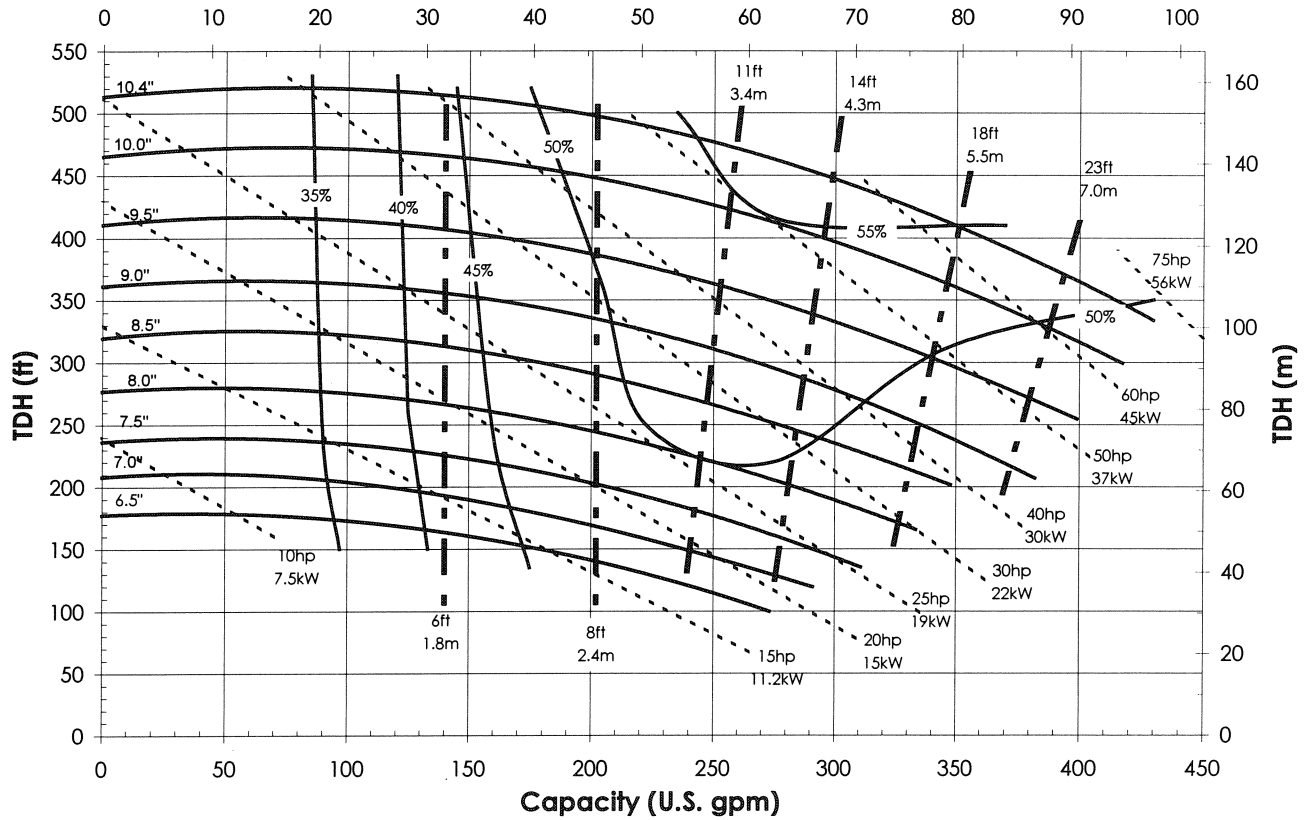
KF2110, 1450 RPM, S.G. 1.00

Capacity (US gpm)



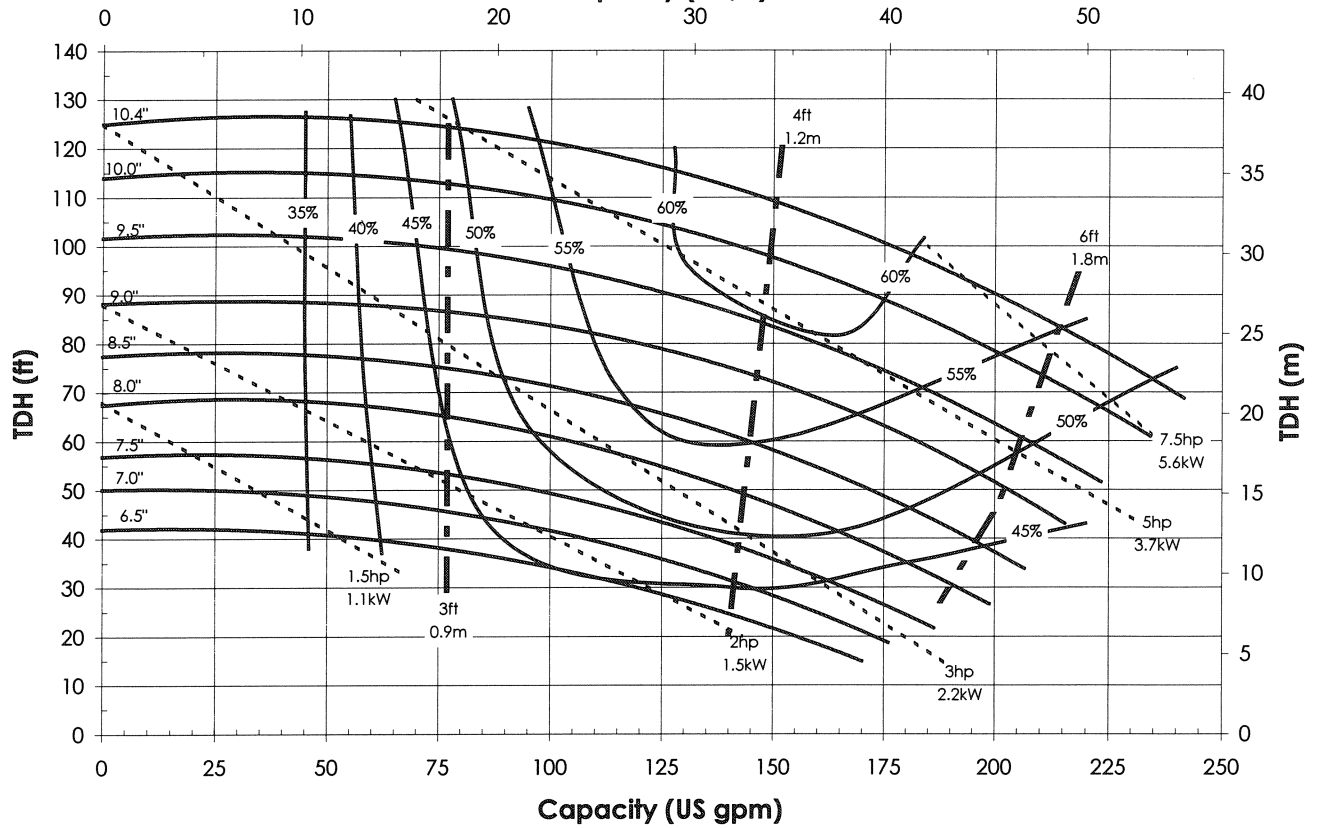
KF31510 , 3550 RPM, S.G. 1.00

Capacity (m³/h)



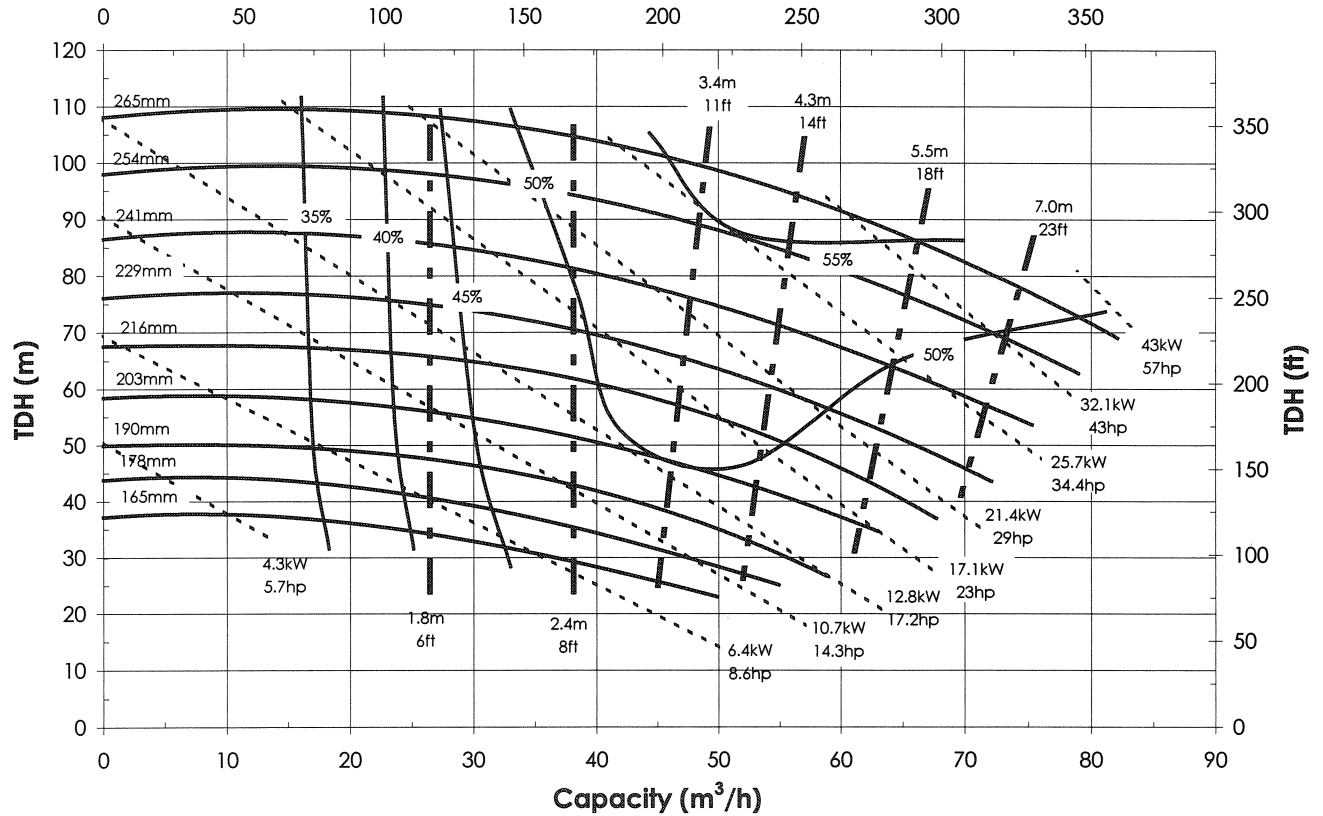
KF31510, 1750 rpm, S.G. 1.00

Capacity (m³/h)



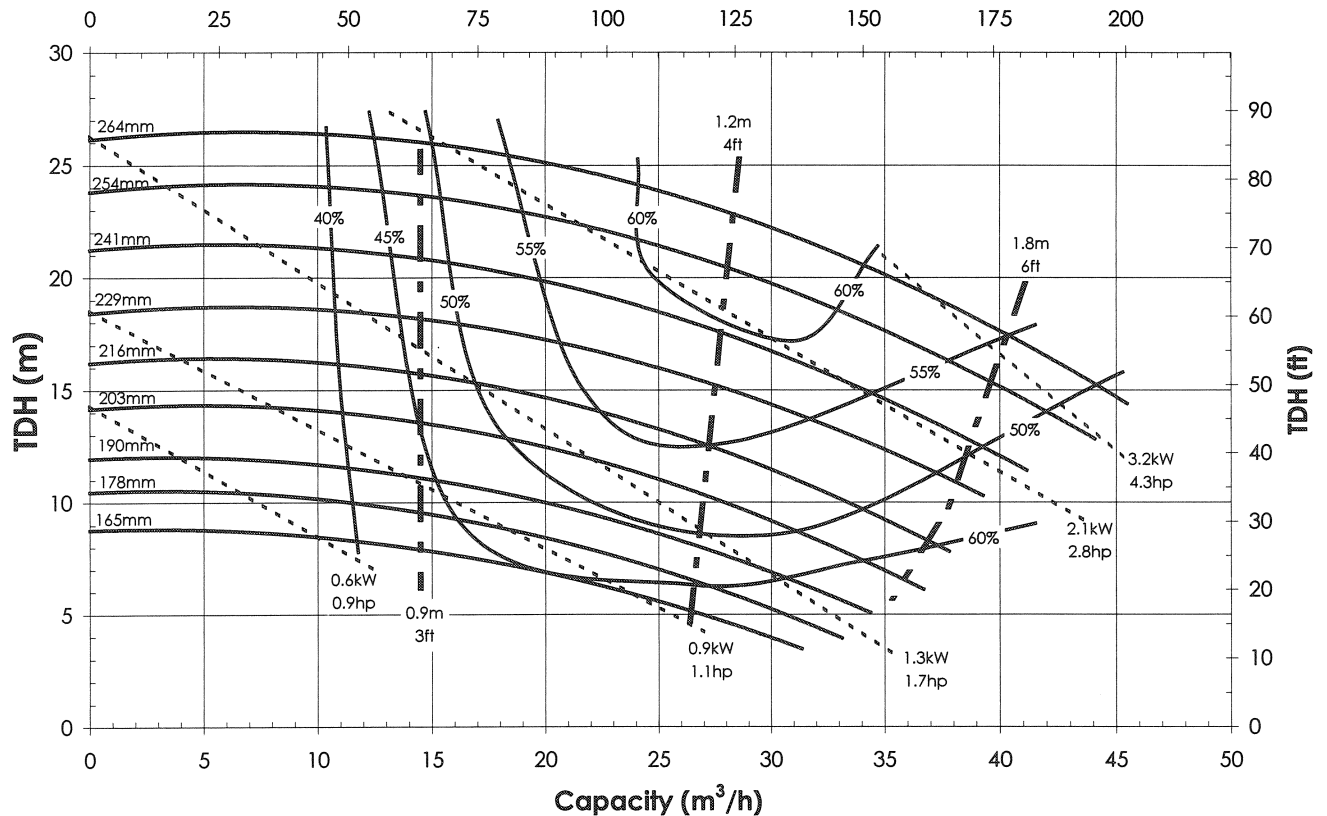
KF31510, 2950 RPM, S.G. 1.00

Capacity (U.S. gpm)



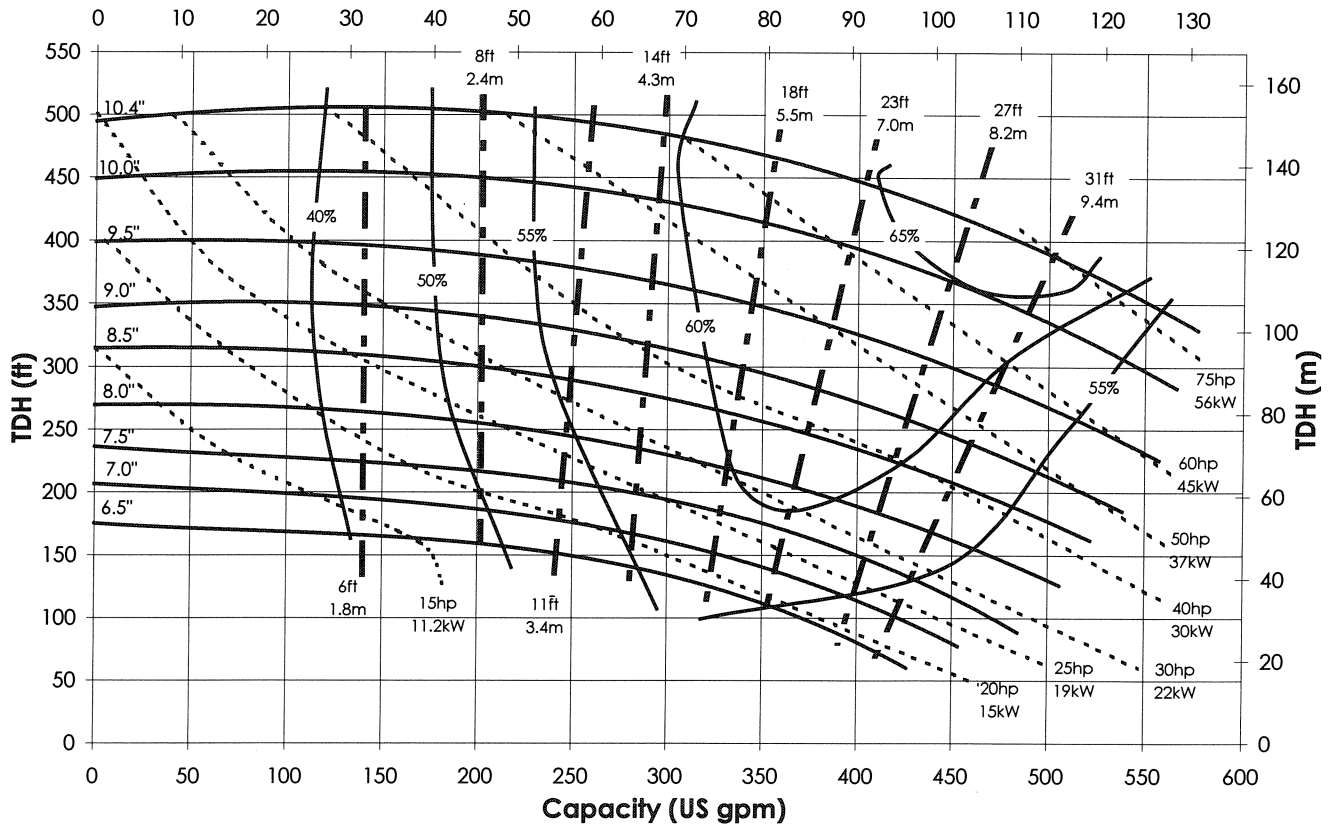
KF31510, 1450 rpm, S.G. 1.00

Capacity (U.S. gpm)



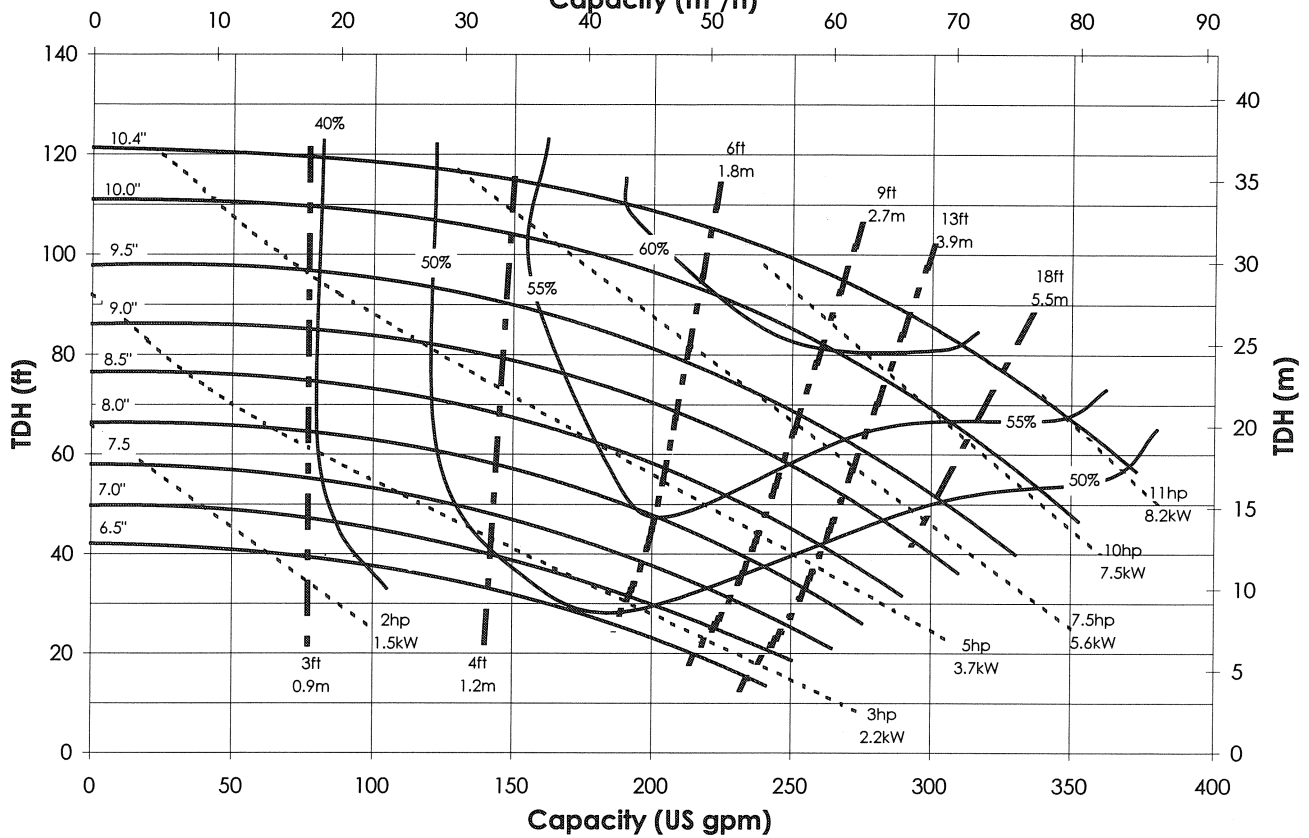
KF3210, 3550 RPM, S.G. 1.00

Capacity (m³/h)



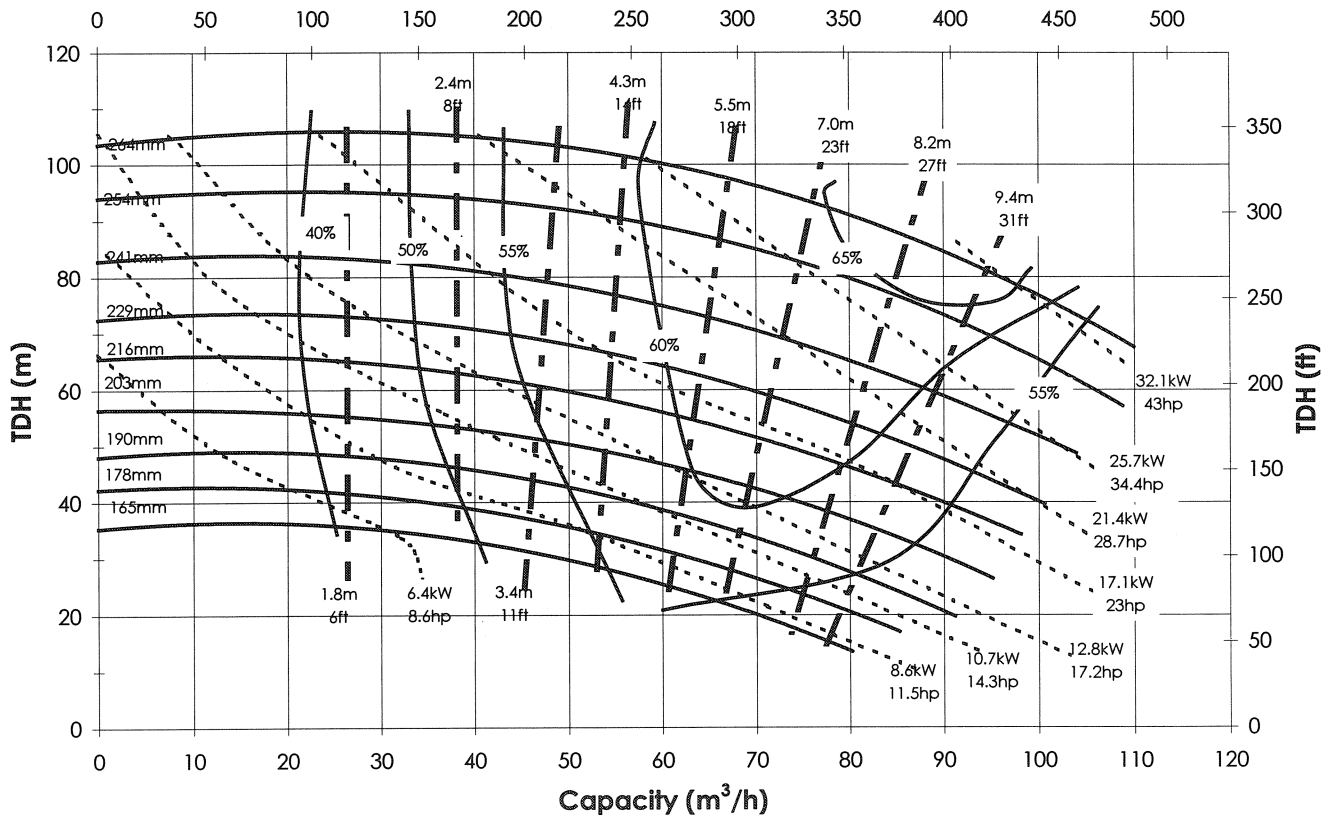
KF3210, 1750 rpm, S.G. 1.00

Capacity (m³/h)



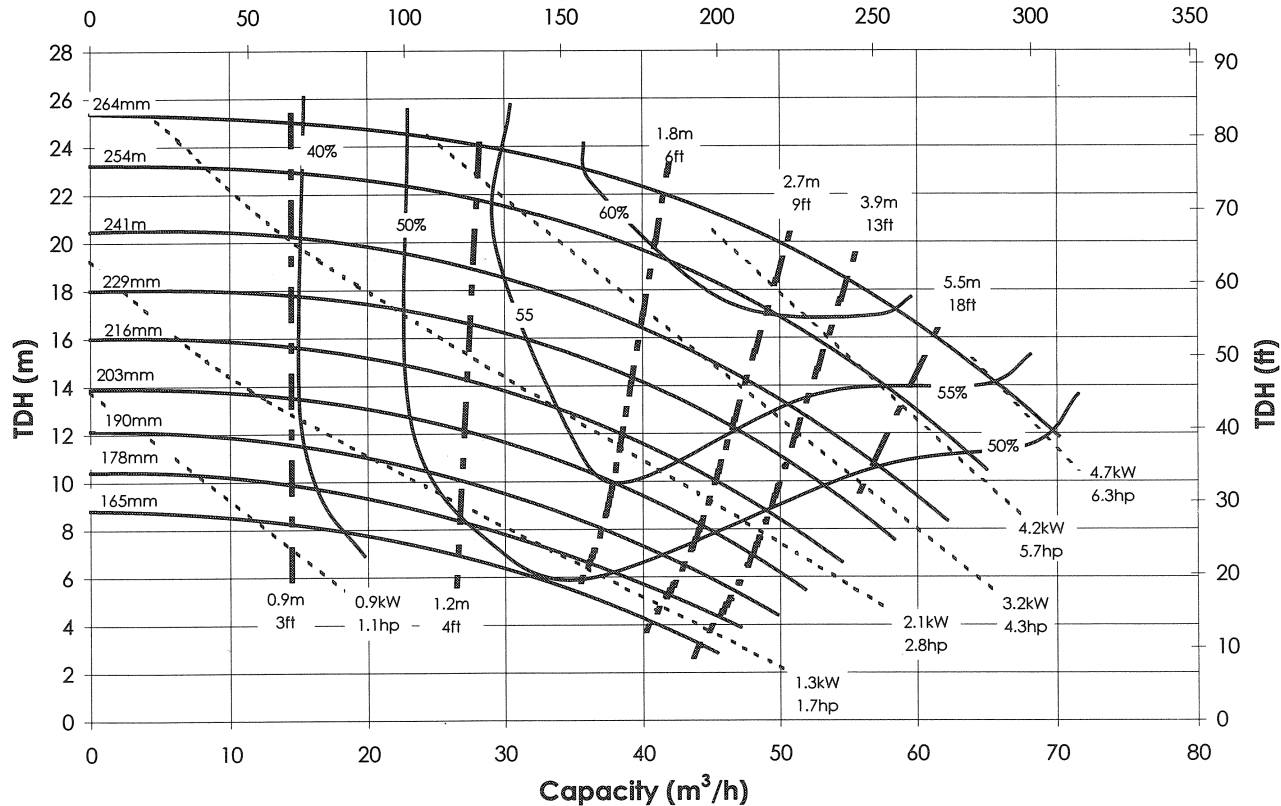
KF3210, 2950 rpm, S.G. 1.00

Capacity (US gpm)

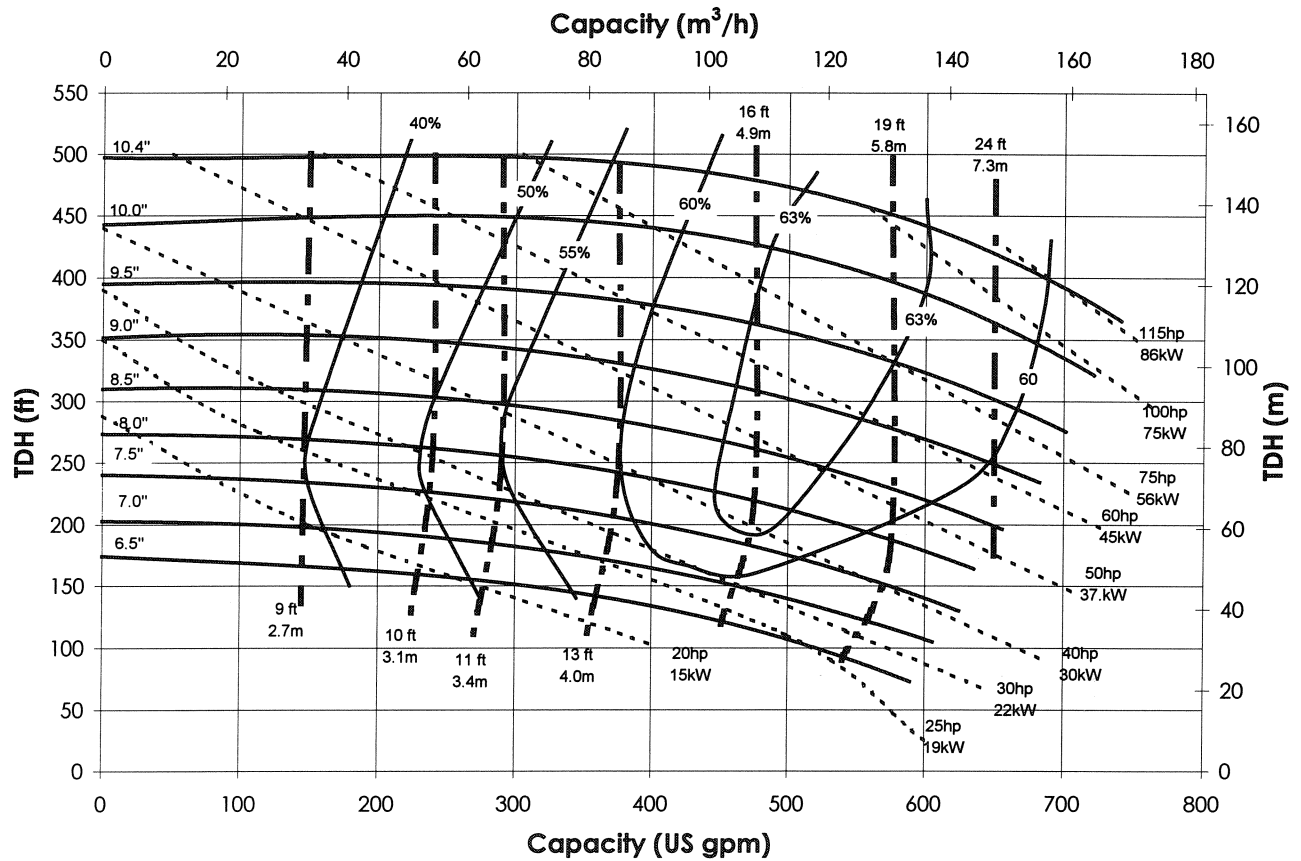


KF3210, 1450 rpm, S.G. 1.00

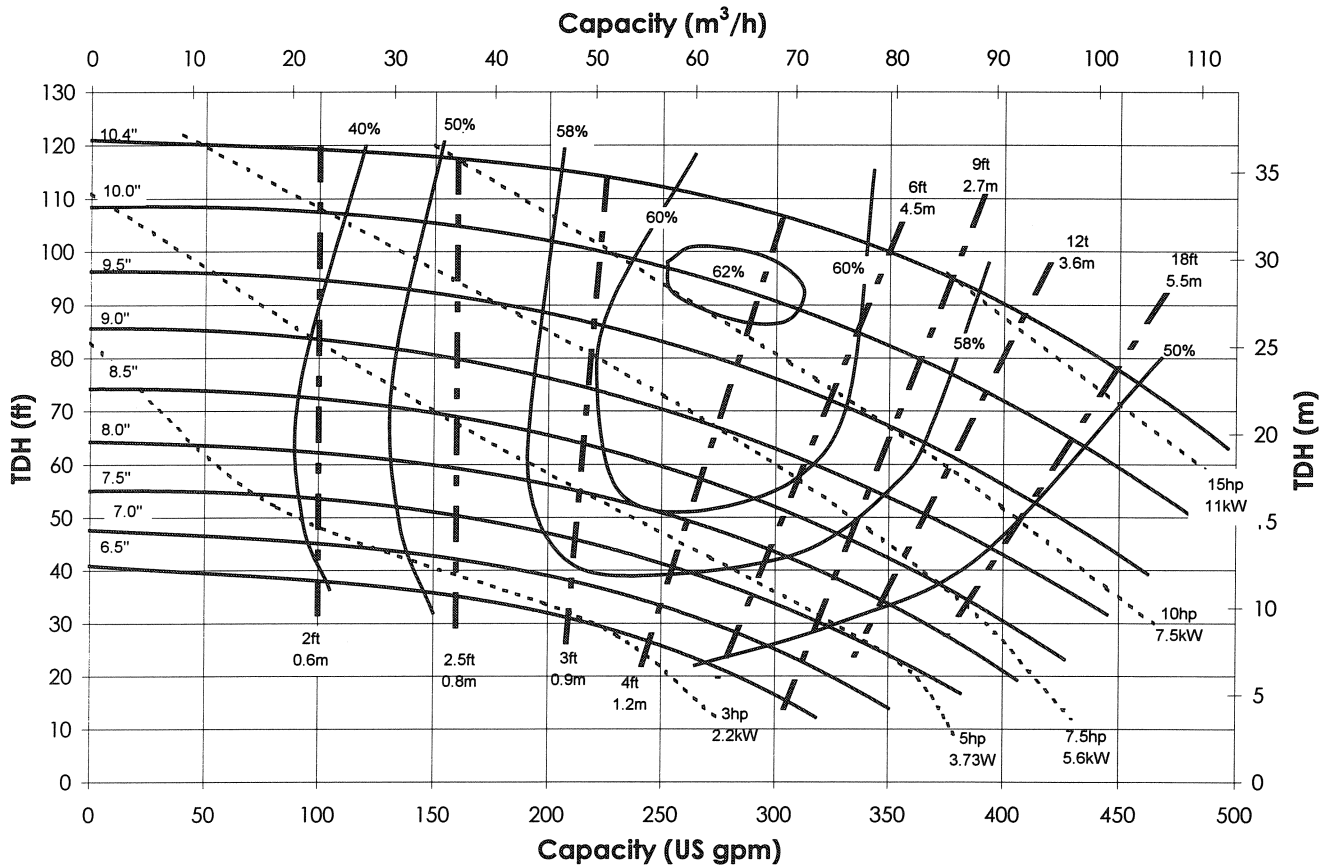
Capacity (US gpm)



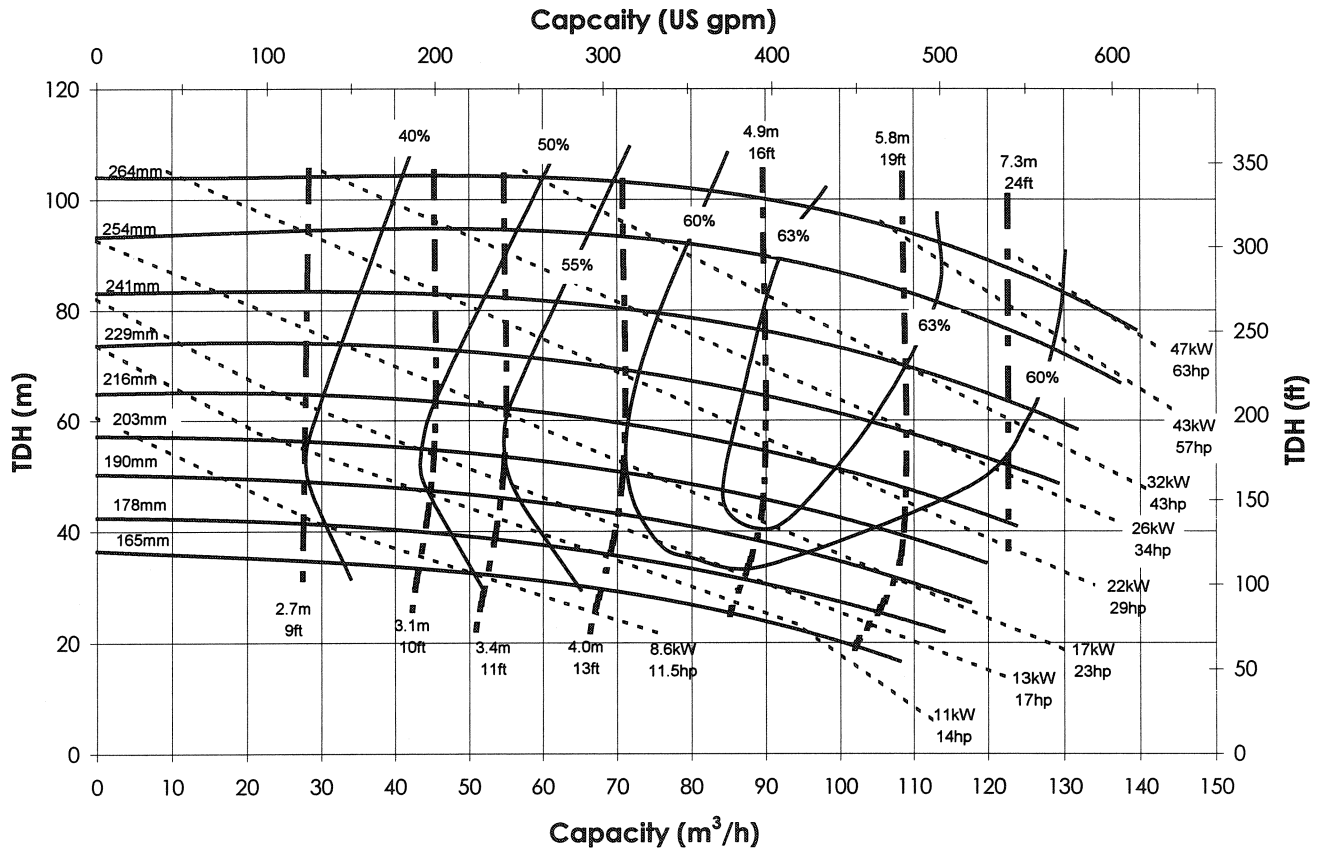
KF4310, 3550 RPM, S.G. 1.00



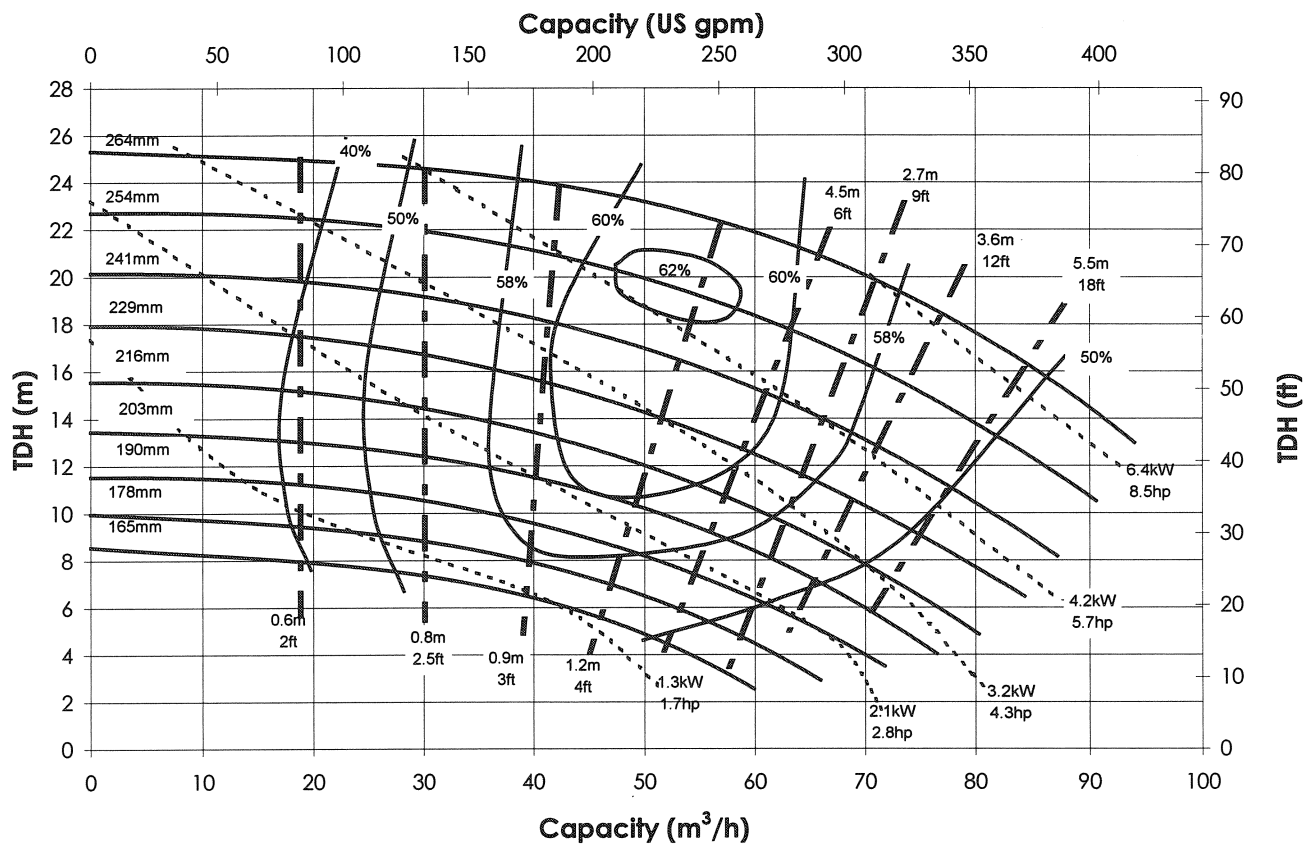
KF4310, 1750 rpm, S.G. 1.00



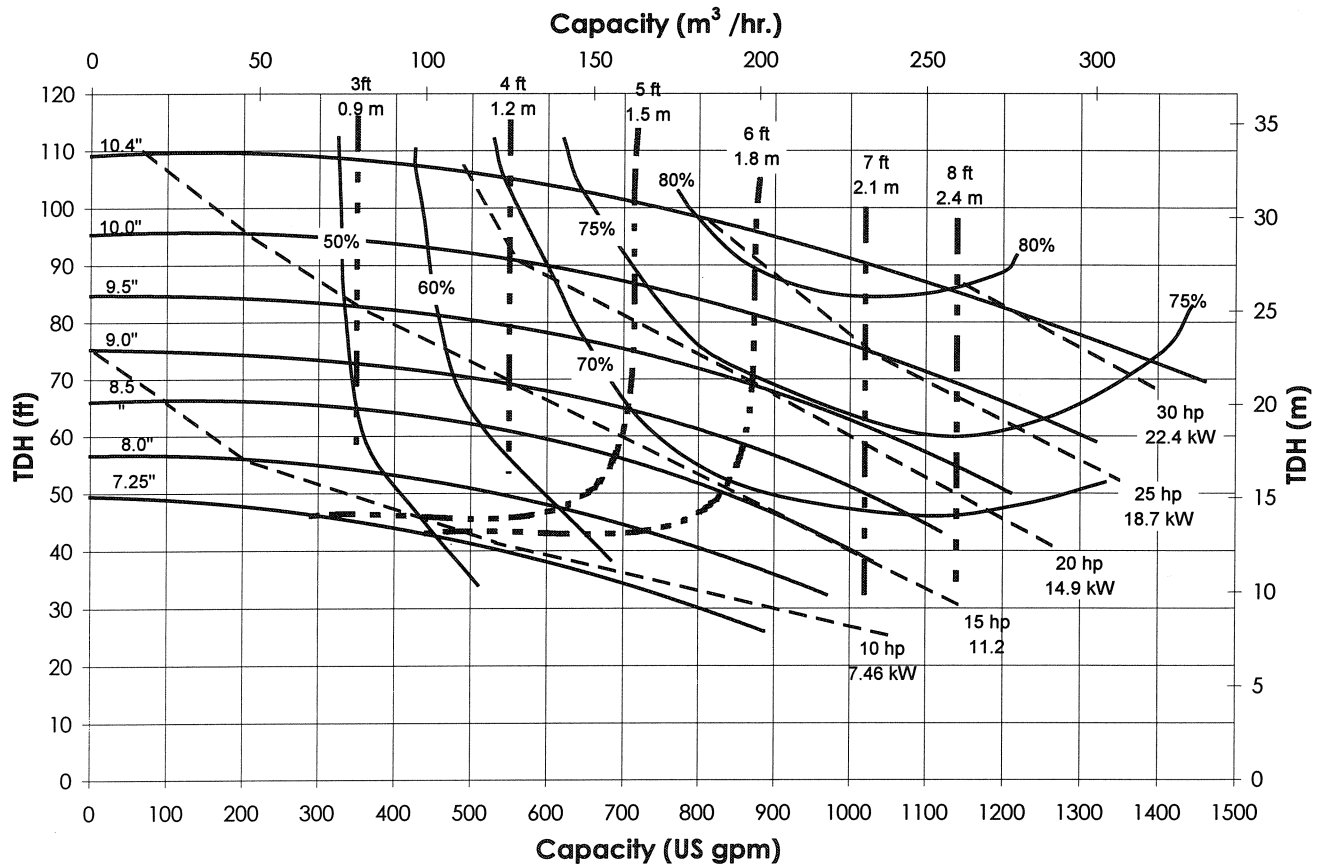
KF4310, 2950 rpm, S.G. 1.00



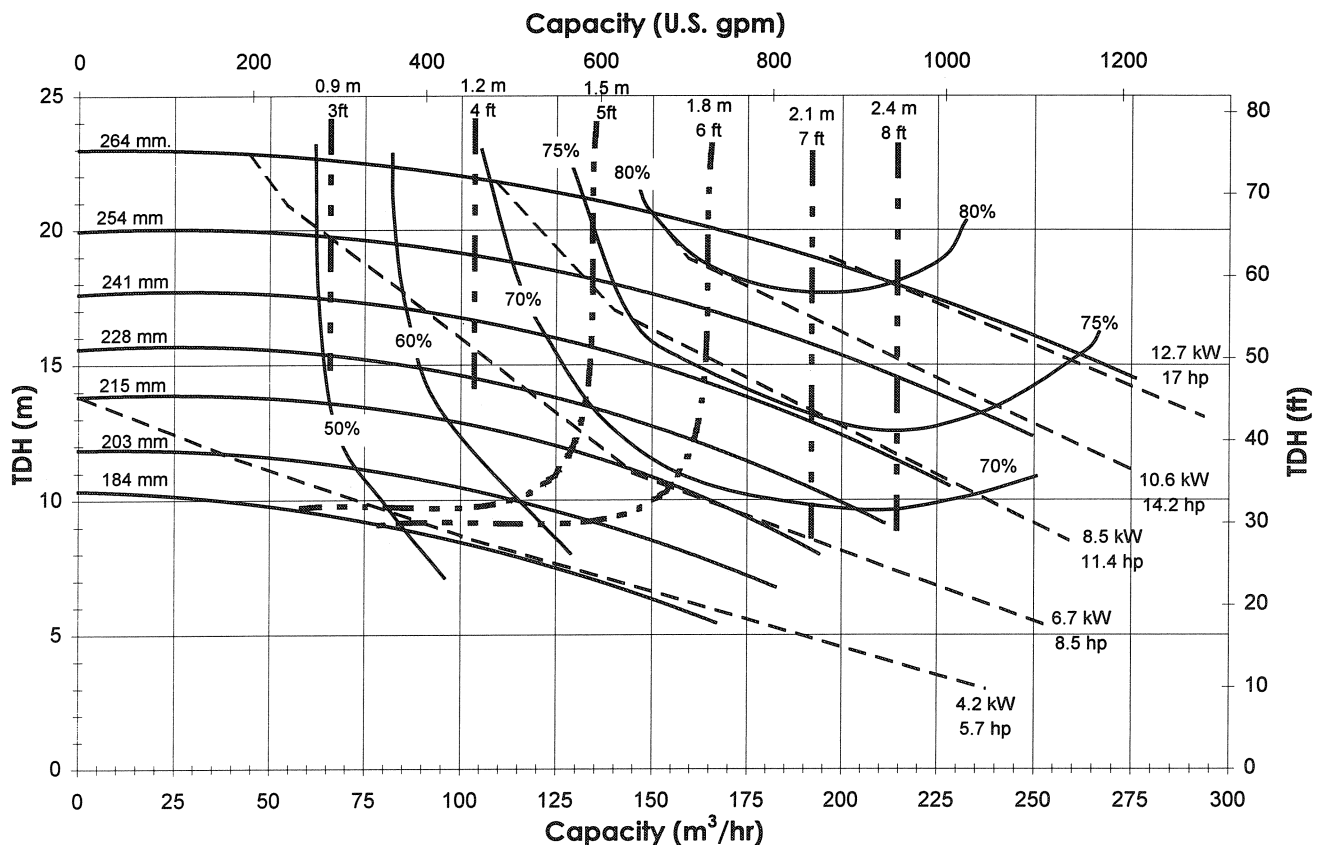
KF4310, 1450 rpm, S.G. 1.00



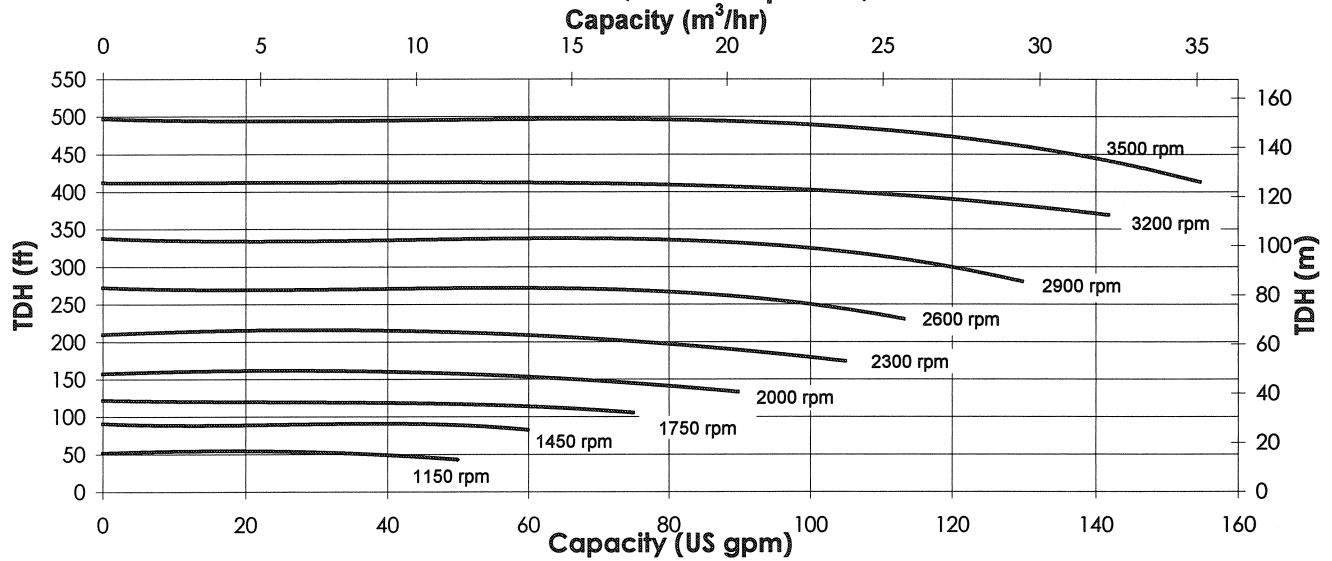
KF6410, 1750 RPM, S.G. 1.00



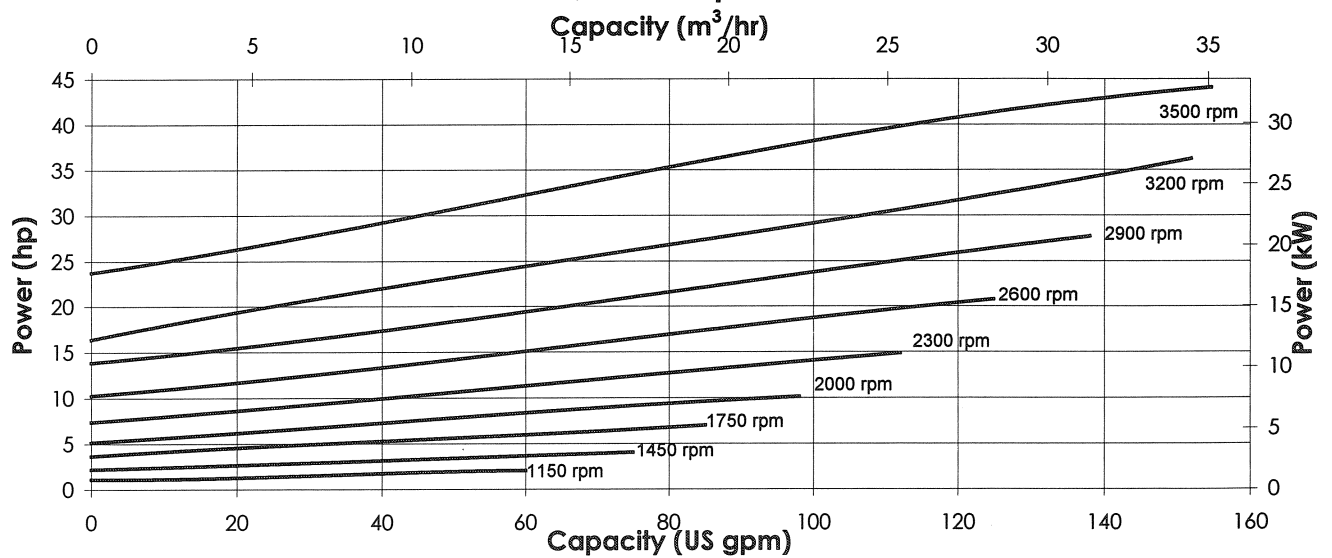
KF6410, 1450 RPM, S.G. 1.00



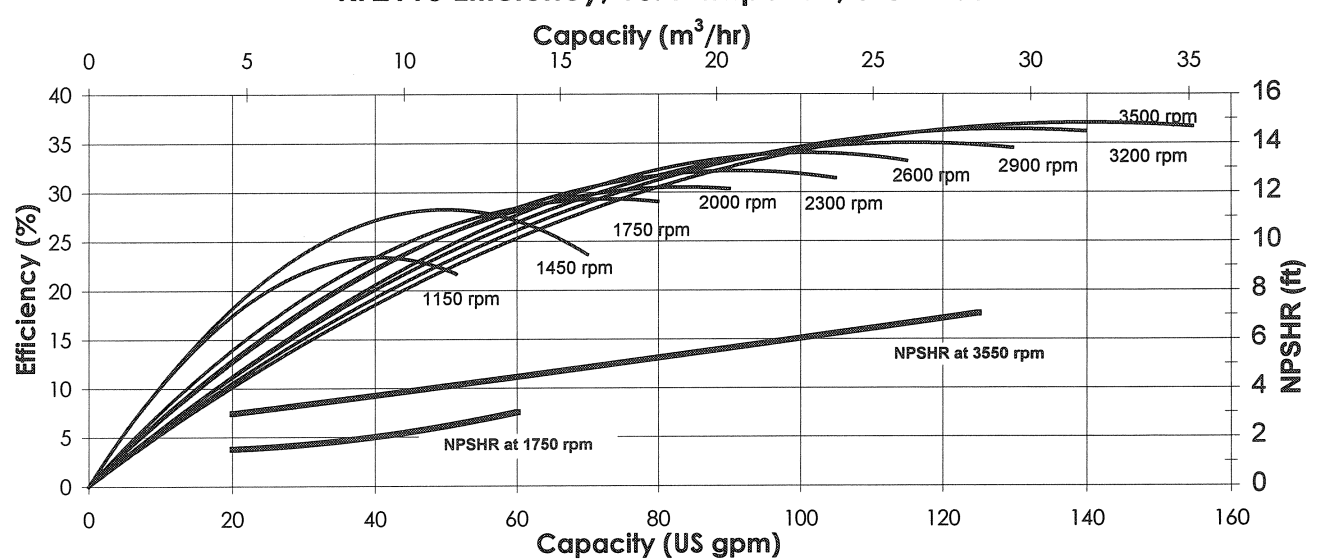
KF2110 Performance, 10.4" Impeller , S.G. 1.00



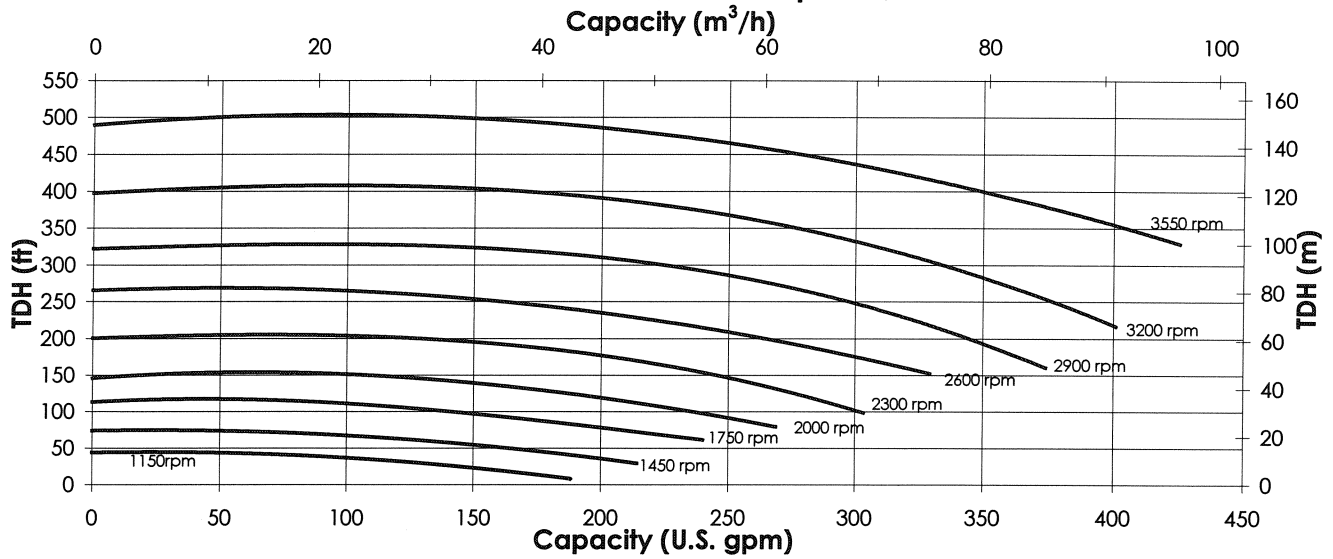
KF2110 Power, 10.4" Impeller , S.G. 1.00



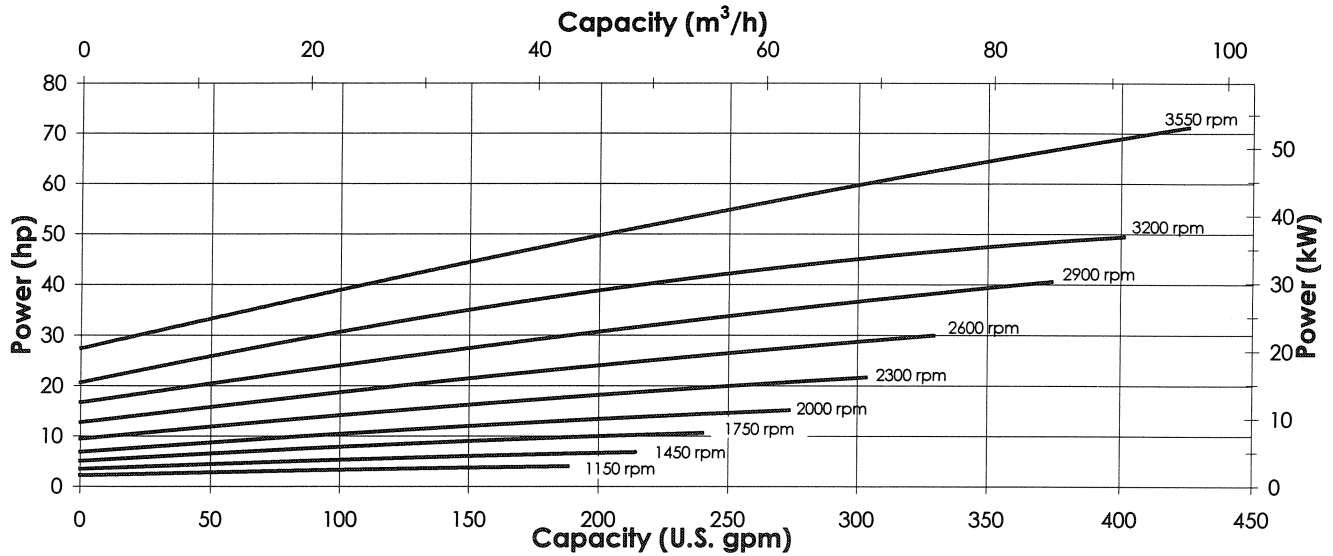
KF2110 Efficiency, 10.4" Impeller , S.G. 1.00



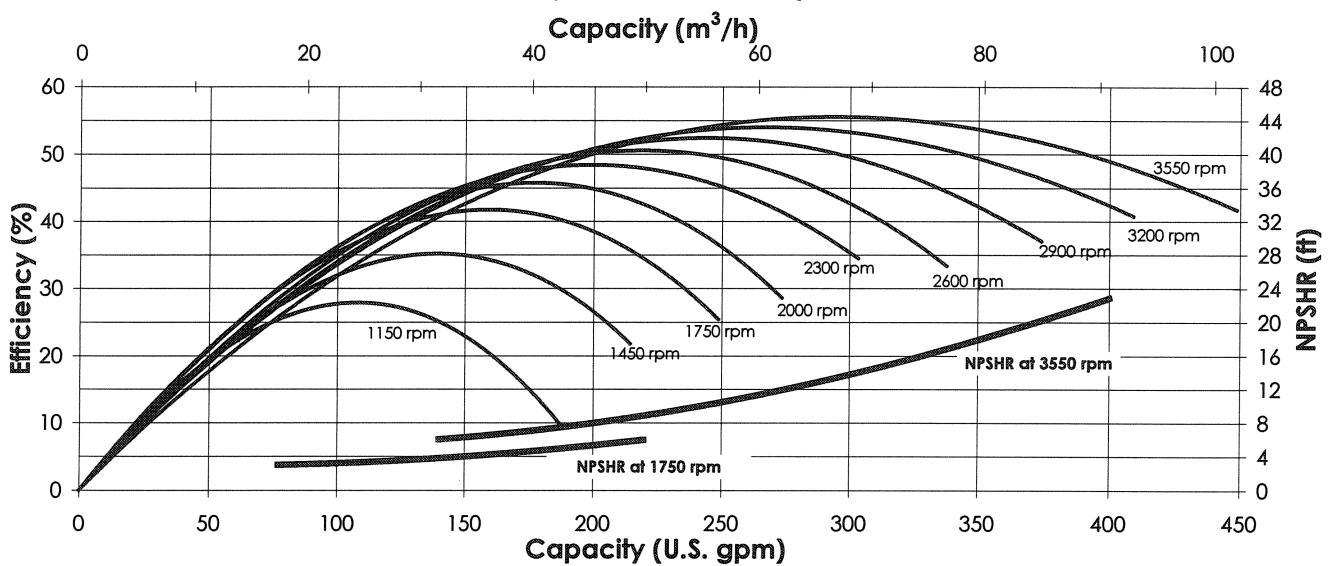
KF31510, Performance, 10.4" Impeller, S.G. 1.00



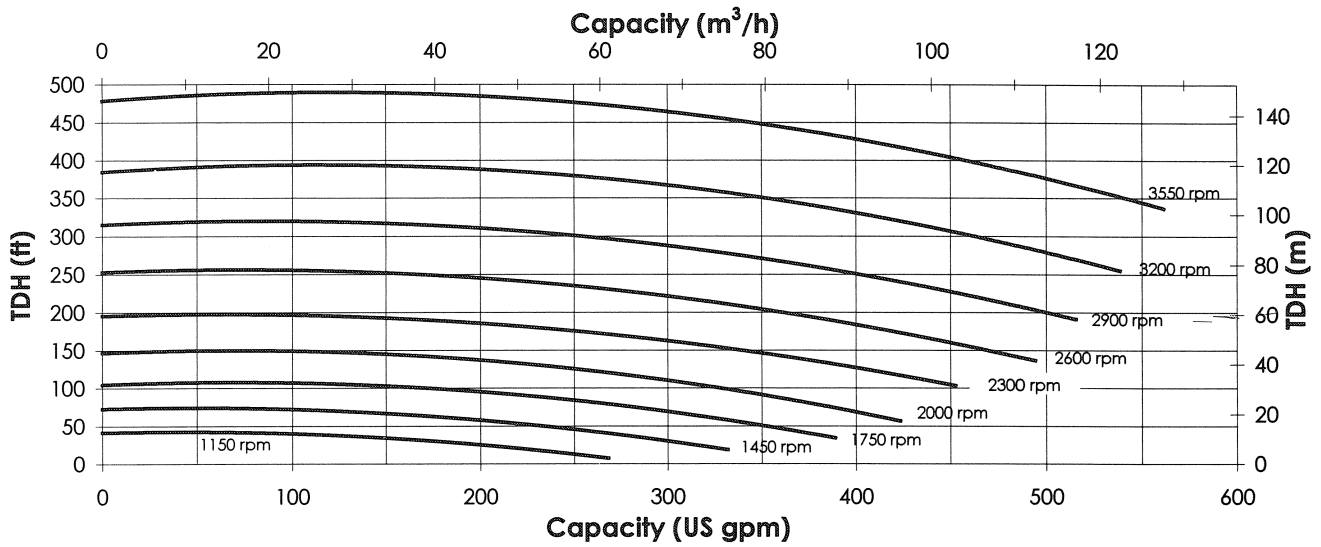
KF31510 Power, 10.4" Impeller, S.G. 1.00



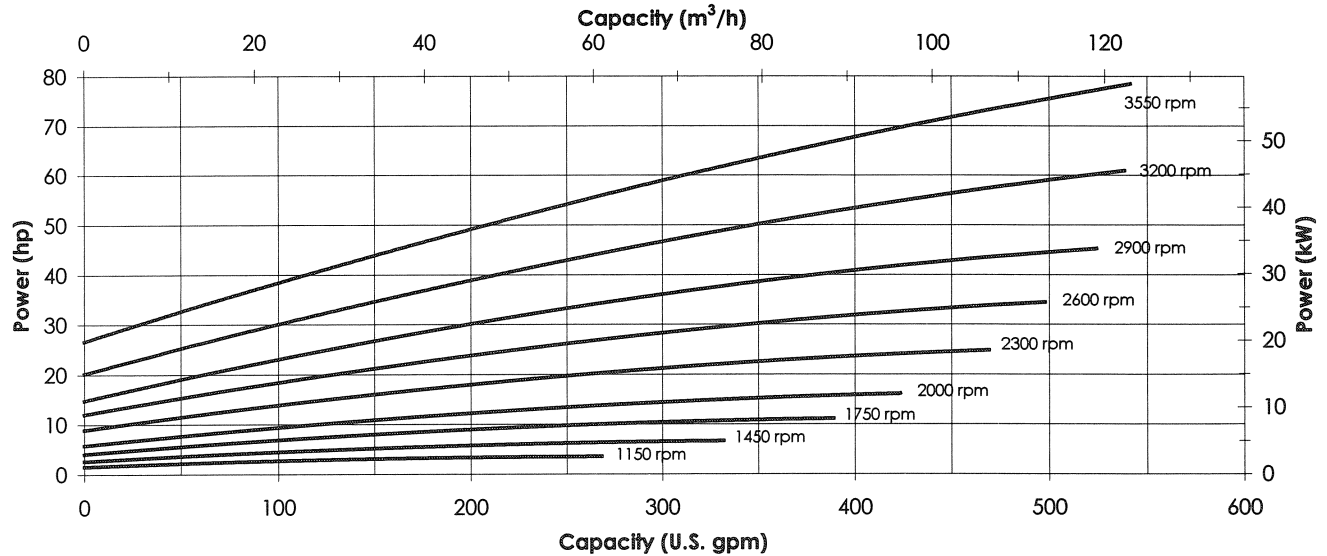
KF31510 Efficiency & NPSHR, 10.4" Impeller, S.G. 1.00



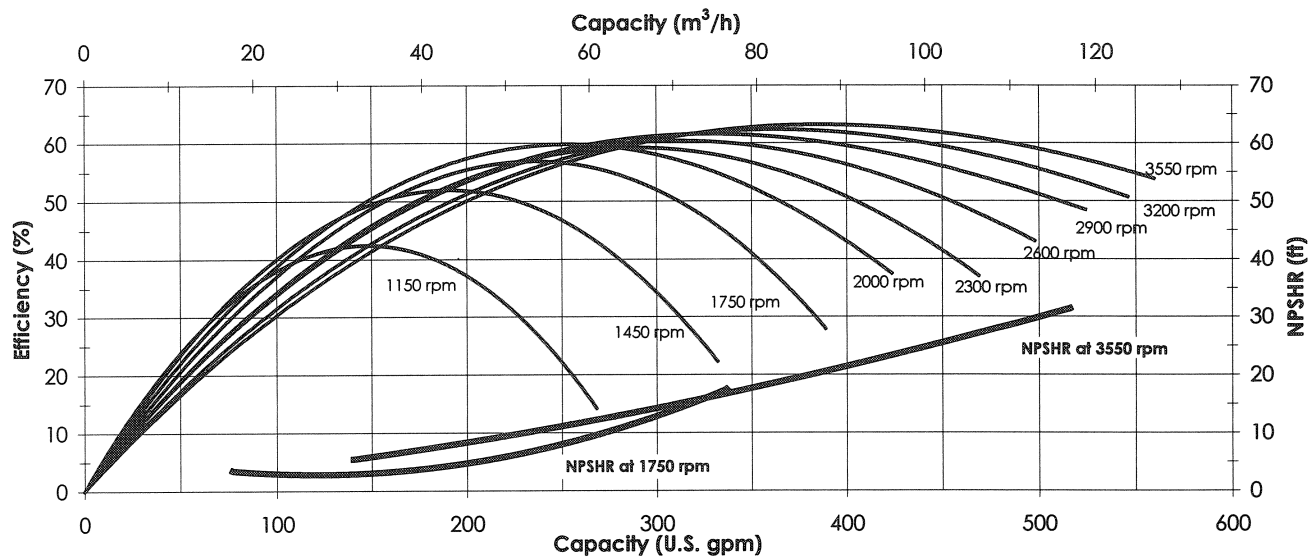
KF3210 Performance, 10.4" Impeller, S.G. 1.00



KF3210 Power, 10.4" Impeller, S.G. 1.00



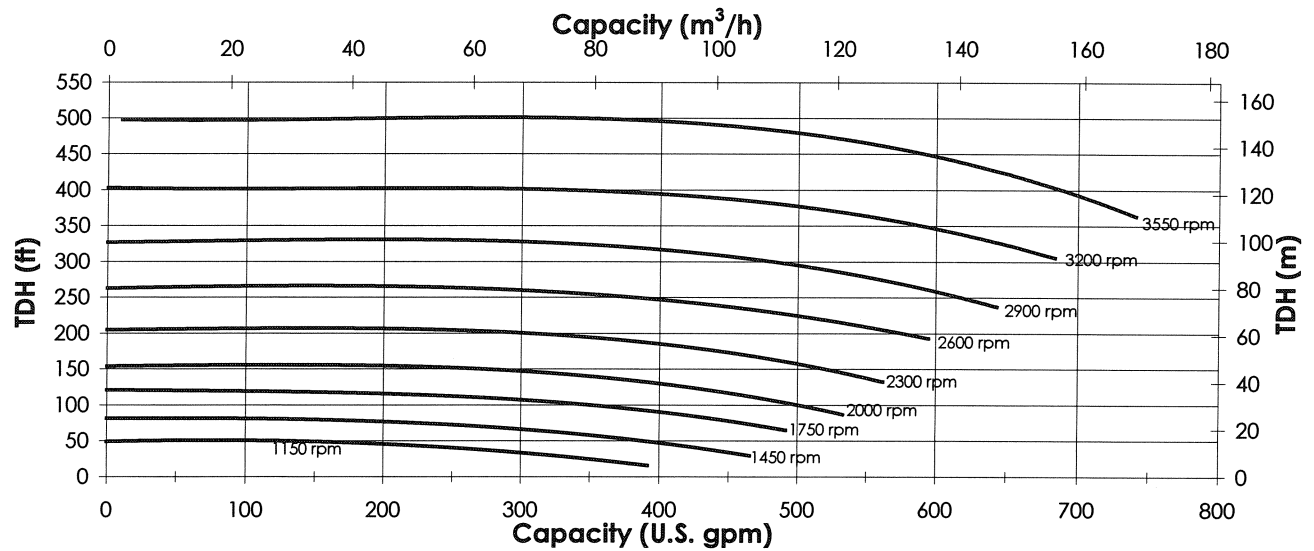
KF3210 Efficiency & NPSHR, 10.4" Impeller, S.G. 1.00



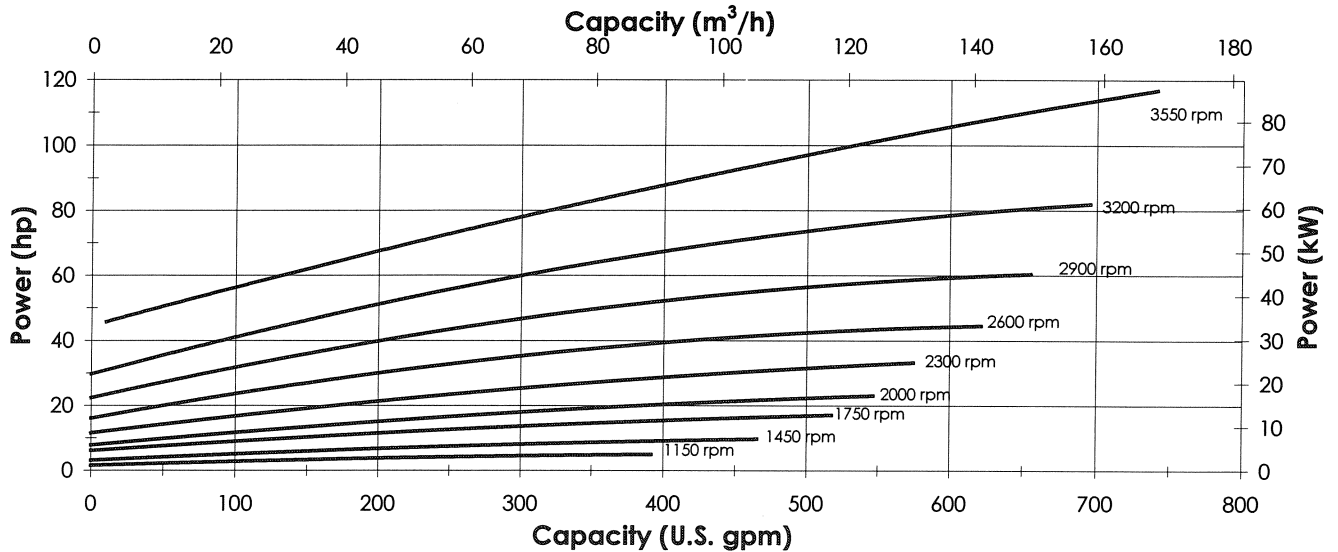
NPSHR Based on 3% head drop. Recommended minimum safety factor, add 2ft.

10/6/97

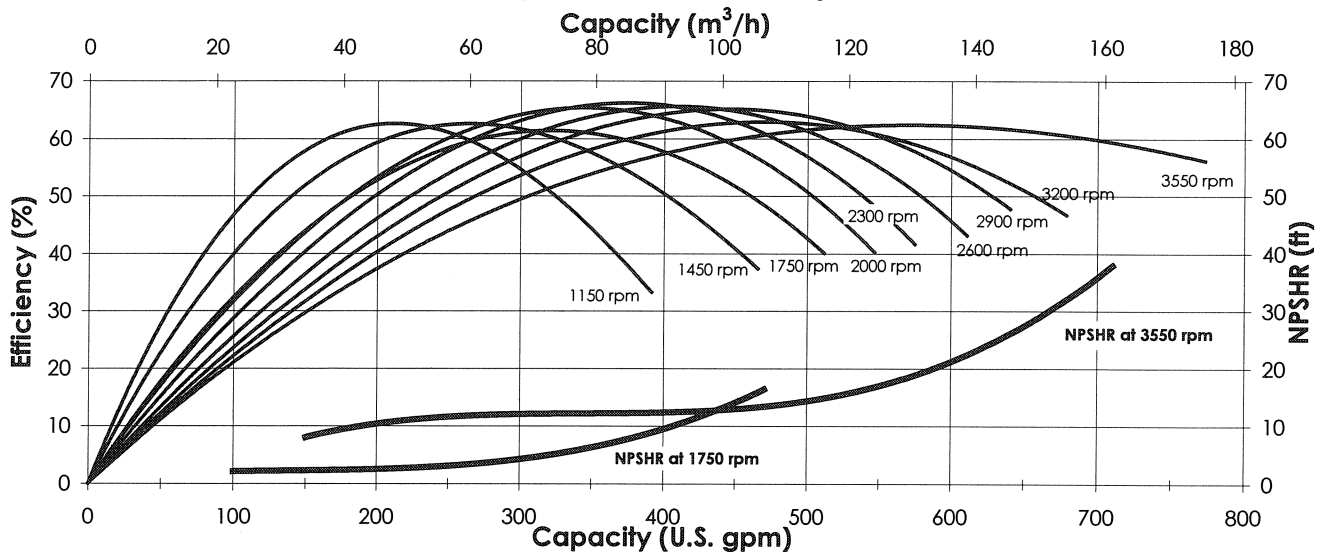
KF4310 Performance, 10.4" Impeller, S.G. 1.00

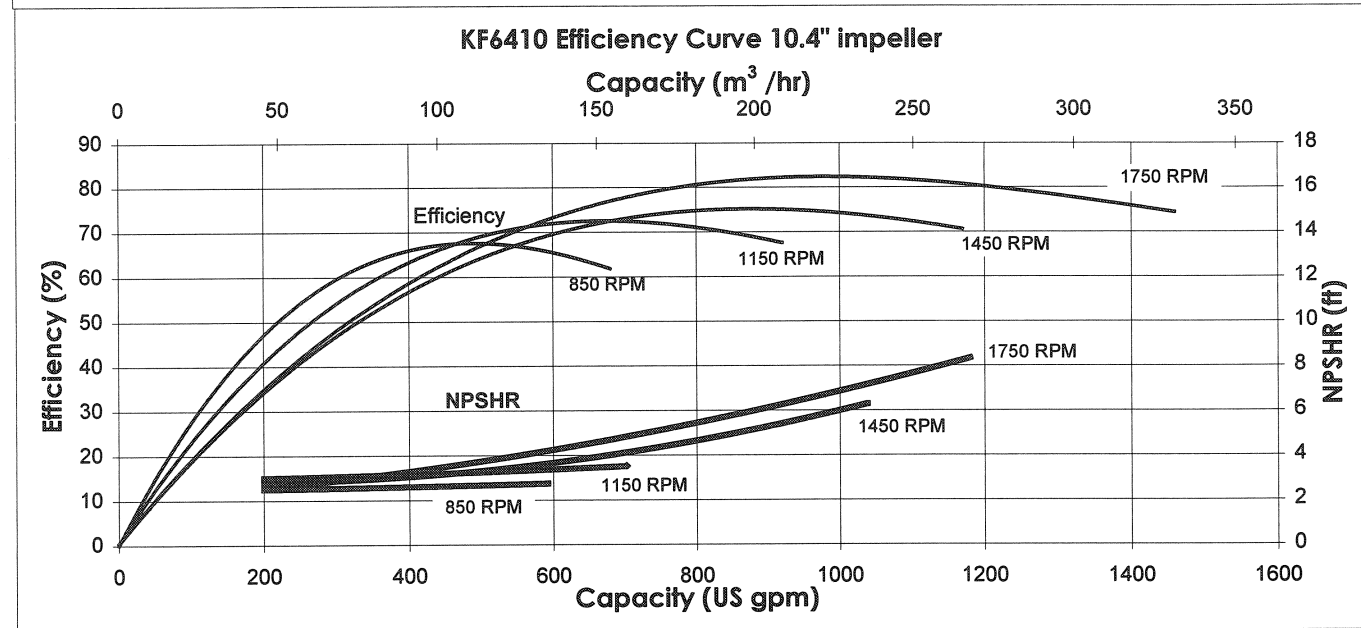
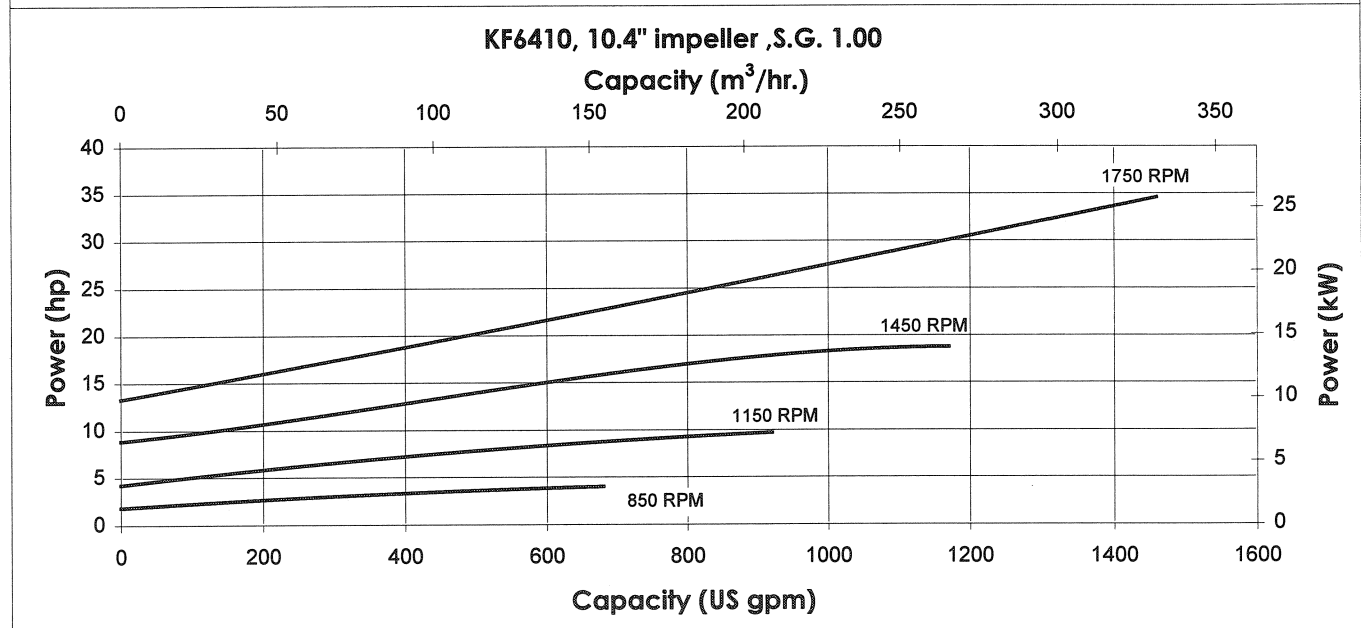
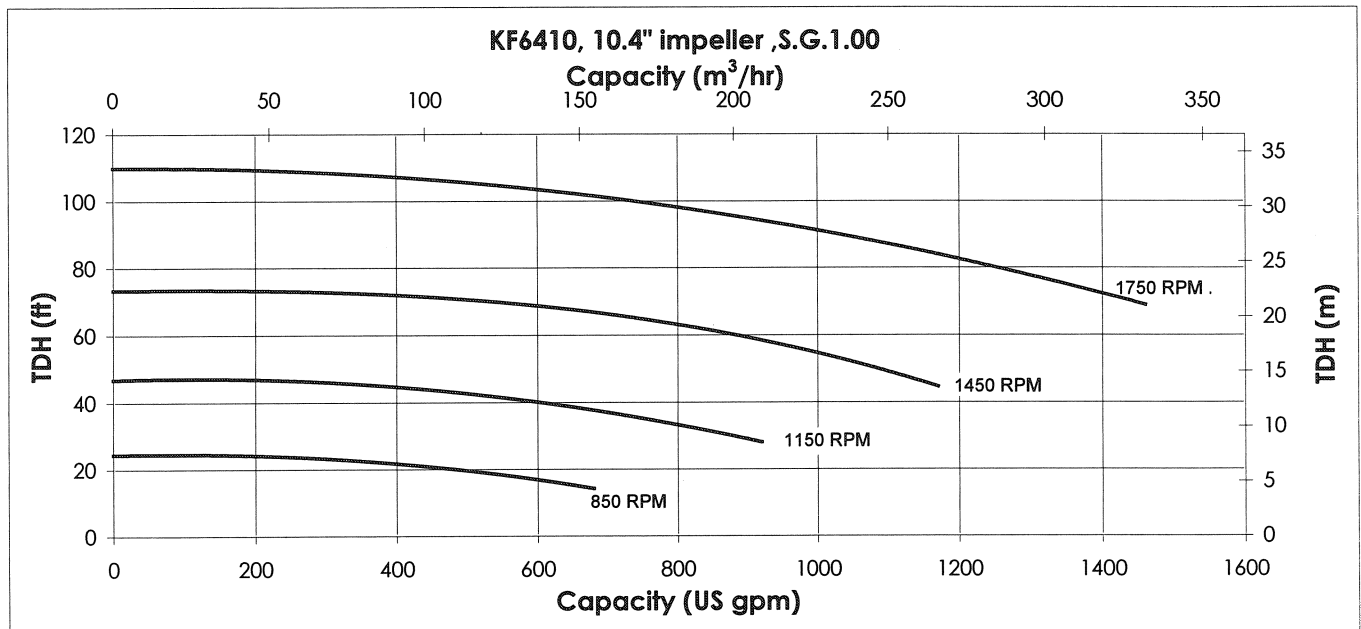


KF4310 Power, 10.4" Impeller, S.G. 1.00



KF4310 Efficiency & NPSHR, 10.4" Impeller, S.G. 1.00





NPSHR based on 3% head drop. Recommended minimum safety margin, add 2ft.

9/30/97

UNIT CONVERSIONS (R1)

Flow (capacity)

gpm (US)	m ³ /h	l/min	gpm (UK)
1	0.2271	3.785	0.8327
4.403	1	16.6667	3.666
0.2642	0.06	1	0.22
1.201	0.2727	4.5458	1

$$\text{GPM (US)} \times 0.2271 = \text{m}^3/\text{h}$$

$$\text{l/min} \times 0.2642 = \text{GPM (US)}$$

$$\text{m}^3/\text{h} \times 4.403 = \text{GPM (US)}$$

$$\text{GPM (US)} \times 3.785 = \text{l/min}$$

$$\text{m}^3/\text{h} \times 16.667 = \text{l/min}$$

$$\text{l/min} \times 0.06 = \text{m}^3/\text{h}$$

Head (pressure / vacuum)

Ft (H ₂ O)	m (H ₂ O)	PSI	Kg/cm ²	KPa	inch Hg	mmHg	bar
1	0.3048	0.4335	0.03047	2.989	0.8826	22.42	0.02988
3.281	1	1.423	0.1	9.807	2.896	73.55	0.0981
2.307	0.7031	1	0.07029	6.895	2.036	51.71	0.0690
32.83	10.01	14.23	1	98.07	28.96	735.5	.981
0.3346	0.1020	0.145	0.0102	1	0.2953	7.501	0.01
1.133	0.3453	0.491	0.0345	3.386	1	25.4	0.0339
0.0446	0.0136	0.01933	0.001356	0.1330	0.03937	1	0.00133
33.458	10.195	14.504	1.01956	100	29.5	750.1	1

$$\text{Ft (in water)} \times 0.3048 = \text{m (in water)}$$

$$\text{PSI} \times 2.307 = \text{Ft (in water)}$$

$$\text{m (in water)} \times 3.2808 = \text{Ft (in water)}$$

$$\text{Ft (in water)} \times .433 = \text{PSI}$$

$$\text{Kg/cm}^2 \times 32.8 = \text{Ft (in water)}$$

$$\text{PSI} \times 6.895 = \text{KPa}$$

$$\text{Ft (in water)} \times .03049 = \text{Kg/cm}^2$$

$$\text{KPa} \times 0.1450 = \text{PSI}$$

Volume

Ft ³	m ³	liter	gallon (US)	gallon (UK)	Lbs of water
1	0.02832	28.32	7.481	6.229	62.44
35.31	1	1000	264.2	220.00	2205
0.03531	0.001	1	0.2642	0.22	2.205
0.1337	0.003785	3.785	1	0.8327	8.347
0.1606	0.004545	4.548	1.201	1	10.025
0.01620	0.0004536	0.4536	.1198	0.09975	1

Temperature Conversions

°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	Δ°F	Δ°C
-60	-51	0	-18	60	15.6	120	48.9	180	82.2	240	116	300	149	360	182	1	0.6
-55	-48	5	-15	65	18.3	125	51.7	185	85.0	245	118	305	152	365	185	2	1.1
-50	-46	10	-12	70	21.1	130	54.4	190	87.8	250	121	310	154	370	188	3	1.7
-45	-43	15	-9.4	75	23.9	135	57.2	195	90.6	255	124	315	157	375	191	4	2.2
-40	-40	20	-6.7	80	26.7	140	60.0	200	93.3	260	127	320	160	380	193	5	2.8
-35	-37	25	-3.9	85	29.4	145	62.8	205	96.1	265	129	325	163	385	196	6	3.3
-30	-34	30	-1.1	90	32.2	150	65.6	210	98.9	270	132	330	166	390	199	7	3.9
-25	-32	35	1.67	95	35.0	155	68.3	215	102	275	135	335	168	395	202	8	4.4
-20	-29	40	4.44	100	37.8	160	71.1	220	104	280	138	340	171	400	204	9	5.0
-15	-26	45	7.22	105	40.6	165	73.9	225	107	285	141	345	174	405	207	10	5.6
-10	-23	50	10.0	110	43.3	170	76.7	230	110	290	143	350	177	410	210	11	6.1
-5	-21	55	12.8	115	46.1	175	79.4	235	113	295	146	355	179	415	213	12	6.7

$$^{\circ}\text{F} = (9/5) \times ^{\circ}\text{C} + 32$$

$$^{\circ}\text{C} = (5/9) \times (^{\circ}\text{F} - 32)$$

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