

# 60 Hz

MegaCPK,  
HPK-L  
Magnochem, Magnochem-Bloc,  
Meganorm, Megabloc

## Folheto de curvas características



## **Ficha técnica**

Folheto de curvas características 60 Hz

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## Bombas centrífugas

### Bombas químicas standard

## MegaCPK, HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



MegaCPK



HPK-L



Magnochem



Magnochem-Bloc



Meganorm



Megabloc

### Geral

**Classe de aceitação:** curvas características conforme ISO classe 9906 2B

#### Valores NPSH

Os valores medidos de NPSH indicados nas curvas características correspondem a uma queda da altura manométrica de 3%.

#### Valor NPSH na zona de carga parcial

Os valores NPSH para vazões menores que  $Q = 0,3 \times Q_{\text{otim}}$  só podem ser medidos com um grande esforço. Os valores NPSH na zona de carga parcial não são comprovados.

#### Densidade do fluido bombeado

As alturas manométricas e indicações da potência são válidas para fluidos bombeados com uma densidade de  $\rho = 1,0 \text{ kg/dm}^3$  e uma viscosidade cinemática  $\nu$  até um máx. de  $20 \text{ mm}^2/\text{s}$ . Se a massa volumétrica  $\neq 1,0$ , a indicação da potência tem de ser multiplicada por  $\rho$ . Com viscosidades  $> 20 \text{ mm}^2/\text{s}$ , é necessário calcular os respectivos dados da água fria e determinar a influência na potência da bomba.

#### Potência de fricção

Em determinadas versões (mancais reforçados, determinadas vedações do eixo) é necessário considerar as potências de fricção e indicá-las como potência adicional na folha de dados.

#### Fatores de correção

As curvas características são válidas para bombas com rotores de ferro fundido ou de bronze. No caso de utilização de um rotor feito de aço fundido, é necessário corrigir o rendimento e a potência dos tamanhos afetados com os fatores de correção indicados nas curvas de características.

#### Gama de redução do rotor

A gama de redução do rotor é possível para qualquer diâmetro até o diâmetro mínimo indicado.

#### Limites de utilização

Observar os limites de utilização que dependem de material ou de versão.



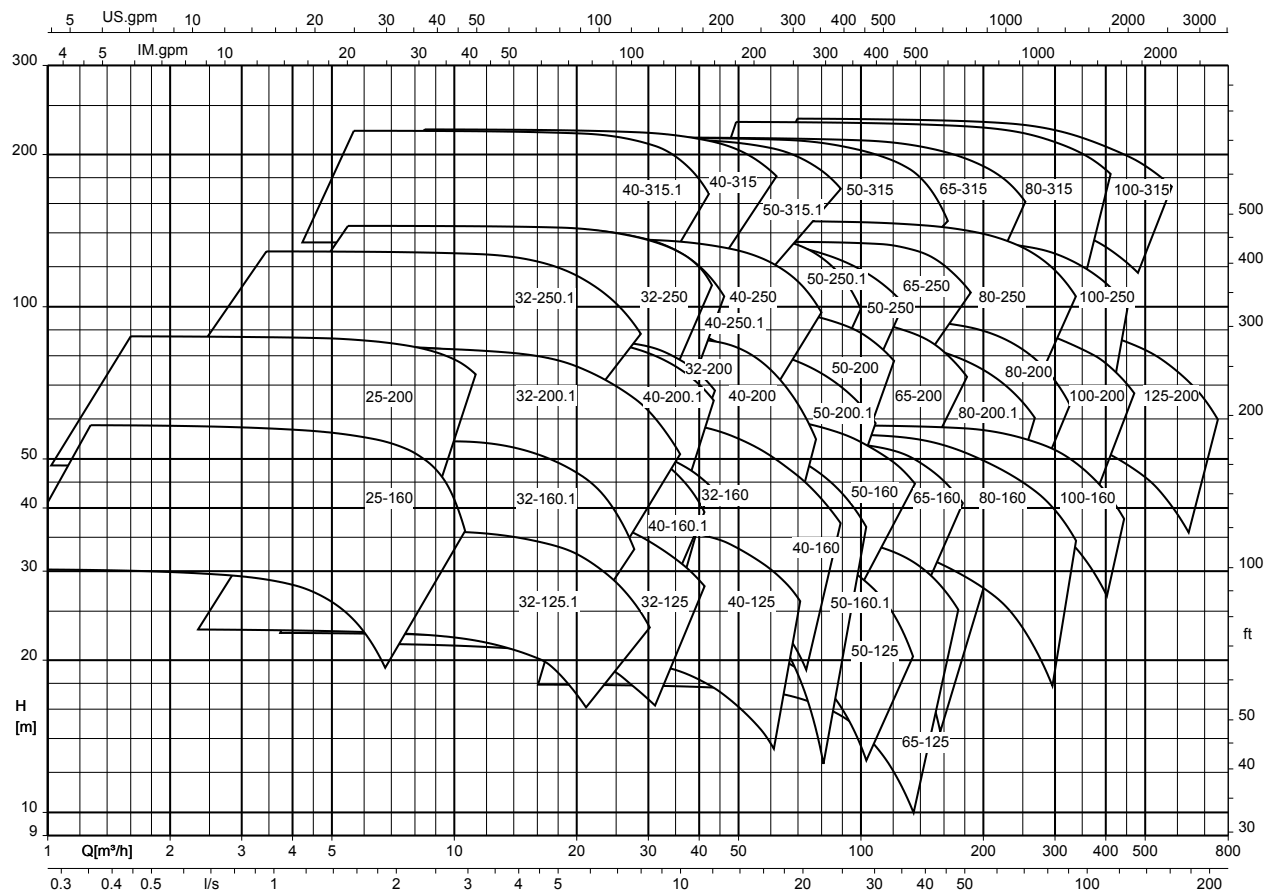
**Visão geral dos tamanhos**

Visão geral dos tamanhos

Tamanho	Rotação [rpm]																			
	3500							1750							1160					
	MegaCPK	HPK-L	Magnochem	Magnochem-Bloc	Meganorm	Megabloc		MegaCPK	HPK-L	Magnochem	Magnochem-Bloc	Meganorm	Megabloc		MegaCPK	HPK-L	Magnochem	Magnochem-Bloc	Meganorm	
040-025-160	X	X	X	X	X	X	(⇒ Página 12)	X	X	X	X	X	-	(⇒ Página 55)	X	X	X	X	X	(⇒ Página 113)
040-025-200	X	X	X	X	X	X	(⇒ Página 13)	X	X	X	X	X	-	(⇒ Página 56)	X	X	X	X	X	(⇒ Página 114)
050-032-125.1	X	X	X	X	X	X	(⇒ Página 14)	X	X	X	X	X	-	(⇒ Página 57)	X	X	X	X	X	(⇒ Página 115)
050-032-125	X	X	X	X	X	X	(⇒ Página 15)	X	X	X	X	X	-	(⇒ Página 58)	X	X	X	X	X	(⇒ Página 119)
050-032-160.1	X	X	X	X	X	X	(⇒ Página 16)	X	X	X	X	X	-	(⇒ Página 59)	X	X	X	X	X	(⇒ Página 116)
050-032-160	X	X	X	X	X	X	(⇒ Página 17)	X	X	X	X	X	-	(⇒ Página 60)	X	X	X	X	X	(⇒ Página 120)
050-032-200.1	X	X	X	X	X	X	(⇒ Página 18)	X	X	X	X	X	X	(⇒ Página 61)	X	X	X	X	X	(⇒ Página 117)
050-032-200	X	X	X	X	X	X	(⇒ Página 19)	X	X	X	X	X	X	(⇒ Página 62)	X	X	X	X	X	(⇒ Página 121)
050-032-250.1	X	X	X	X	X	X	(⇒ Página 20)	X	X	X	X	X	X	(⇒ Página 63)	X	X	X	X	X	(⇒ Página 118)
050-032-250	X	X	X	X	X	X	(⇒ Página 21)	X	X	X	X	X	X	(⇒ Página 64)	X	X	X	X	X	(⇒ Página 122)
065-040-125	X	X	X	X	X	X	(⇒ Página 22)	X	X	X	X	X	-	(⇒ Página 65)	X	X	X	X	X	(⇒ Página 123)
065-040-160.1	X	-	X	X	-	-	(⇒ Página 23)	X	-	X	X	-	-	(⇒ Página 66)	X	-	X	X	-	(⇒ Página 124)
065-040-160	X	X	X	X	X	X	(⇒ Página 24)	X	X	X	X	X	X	(⇒ Página 67)	X	X	X	X	X	(⇒ Página 125)
065-040-200.1	X	-	X	X	-	-	(⇒ Página 25)	X	-	X	X	-	-	(⇒ Página 68)	X	-	X	X	-	(⇒ Página 126)
065-040-200	X	X	X	X	X	X	(⇒ Página 26)	X	X	X	X	X	X	(⇒ Página 69)	X	X	X	X	X	(⇒ Página 127)
065-040-250.1	X	-	X	X	-	-	(⇒ Página 27)	X	-	X	X	-	-	(⇒ Página 70)	X	-	X	X	-	(⇒ Página 128)
065-040-250	X	X	X	X	X	X	(⇒ Página 28)	X	X	X	X	X	X	(⇒ Página 71)	X	X	X	X	X	(⇒ Página 129)
065-040-315.1	X	-	X	X	-	-	(⇒ Página 29)	X	-	X	X	-	-	(⇒ Página 72)	X	-	X	X	-	(⇒ Página 130)
065-040-315	X	X	X	X	X	-	(⇒ Página 30)	X	X	X	X	X	-	(⇒ Página 73)	X	X	X	X	X	(⇒ Página 131)
080-050-125	X	X	X	X	X	X	(⇒ Página 31)	X	X	X	X	X	X	(⇒ Página 74)	X	X	X	X	X	(⇒ Página 132)
080-050-160.1	X	-	X	X	-	-	(⇒ Página 32)	X	-	X	X	-	-	(⇒ Página 75)	X	-	X	X	-	(⇒ Página 133)
080-050-160	X	X	X	X	X	X	(⇒ Página 33)	X	X	X	X	X	X	(⇒ Página 76)	X	X	X	X	X	(⇒ Página 134)
080-050-200.1	X	-	X	X	-	-	(⇒ Página 34)	X	-	X	X	-	-	(⇒ Página 77)	X	-	X	X	-	(⇒ Página 135)
080-050-200	X	X	X	X	X	X	(⇒ Página 35)	X	X	X	X	X	X	(⇒ Página 78)	X	X	X	X	X	(⇒ Página 136)
080-050-250.1	X	-	X	X	-	-	(⇒ Página 36)	X	-	X	X	-	-	(⇒ Página 79)	X	-	X	X	-	(⇒ Página 137)
080-050-250	X	X	X	X	X	-	(⇒ Página 37)	X	X	X	X	X	X	(⇒ Página 80)	X	X	X	X	X	(⇒ Página 138)
080-050-315.1	X	-	X	X	-	-	(⇒ Página 38)	X	-	X	X	-	-	(⇒ Página 81)	X	-	X	X	-	(⇒ Página 139)
080-050-315	X	X	X	X	X	-	(⇒ Página 39)	X	X	X	X	X	X	(⇒ Página 82)	X	X	X	X	X	(⇒ Página 140)
100-065-125	X	X	X	X	X	X	(⇒ Página 40)	X	X	X	X	X	X	(⇒ Página 83)	X	X	X	X	X	(⇒ Página 141)
100-065-160	X	X	X	X	X	X	(⇒ Página 41)	X	X	X	X	X	X	(⇒ Página 84)	X	X	X	X	X	(⇒ Página 142)
100-065-200	X	X	X	X	X	X	(⇒ Página 42)	X	X	X	X	X	X	(⇒ Página 85)	X	X	X	X	X	(⇒ Página 143)
100-065-250	X	X	X	X	X	-	(⇒ Página 43)	X	X	X	X	X	X	(⇒ Página 86)	X	X	X	X	X	(⇒ Página 144)
100-065-315	X	X	X	X	X	-	(⇒ Página 44)	X	X	X	X	X	X	(⇒ Página 87)	X	X	X	X	X	(⇒ Página 145)
125-080-160	X	X	X	X	X	-	(⇒ Página 45)	X	X	X	X	X	X	(⇒ Página 88)	X	X	X	X	X	(⇒ Página 146)
125-080-200.1	X	-	X	X	-	-	(⇒ Página 46)	X	-	X	X	-	-	(⇒ Página 89)	X	-	X	X	-	(⇒ Página 147)
125-080-200	X	X	X	X	X	-	(⇒ Página 47)	X	X	X	X	X	X	(⇒ Página 90)	X	X	X	X	X	(⇒ Página 148)
125-080-250	X	X	X	X	X	-	(⇒ Página 48)	X	X	X	X	X	X	(⇒ Página 91)	X	X	X	X	X	(⇒ Página 149)
125-080-315	X	X	X	X	X	-	(⇒ Página 49)	X	X	X	X	X	X	(⇒ Página 92)	X	X	X	X	X	(⇒ Página 150)
125-080-400	-	-	-	-	-	-	-	X	X	X	X	X	-	(⇒ Página 93)	X	X	X	X	X	(⇒ Página 151)
125-100-160	X	X	X	X	X	-	(⇒ Página 50)	X	X	X	X	X	-	(⇒ Página 94)	X	X	X	X	X	(⇒ Página 152)
125-100-200	X	X	X	X	X	-	(⇒ Página 51)	X	X	X	X	X	X	(⇒ Página 95)	X	X	X	X	X	(⇒ Página 153)
125-100-250	X	X	X	X	X	-	(⇒ Página 52)	X	X	X	X	X	X	(⇒ Página 96)	X	X	X	X	X	(⇒ Página 154)
125-100-315	X	X	X	X	X	-	(⇒ Página 53)	X	X	X	X	X	X	(⇒ Página 97)	X	X	X	X	X	(⇒ Página 155)
125-100-400	-	-	-	-	-	-	-	X	X	X	X	X	-	(⇒ Página 98)	X	X	X	X	X	(⇒ Página 156)
150-125-200	X	X	X	X	X	-	(⇒ Página 54)	X	X	X	X	X	X	(⇒ Página 99)	X	X	X	X	X	(⇒ Página 157)
150-125-250	-	-	-	-	-	-	-	X	X	X	X	X	X	(⇒ Página 100)	X	X	X	X	X	(⇒ Página 158)
150-125-315	-	-	-	-	-	-	-	X	X	X	X	X	-	(⇒ Página 101)	X	X	X	X	X	(⇒ Página 159)
150-125-400	-	-	-	-	-	-	-	X	X	X	X	X	-	(⇒ Página 102)	X	X	X	X	X	(⇒ Página 160)
200-150-200	-	-	-	-	-	-	-	X	X	X	X	X	X	(⇒ Página 103)	X	X	X	X	X	(⇒ Página 161)
200-150-250	-	-	-	-	-	-	-	X	X	X	X	X	X	(⇒ Página 104)	X	X	X	X	X	(⇒ Página 162)
200-150-315	-	-	-	-	-	-	-	X	X	X	-	X	-	(⇒ Página 105)	X	X	X	-	X	(⇒ Página 163)
200-150-400	-	-	-	-	-	-	-	X	X	X	-	X	-	(⇒ Página 106)	X	X	X	-	X	(⇒ Página 164)
200-150-500	-	-	-	-	-	-	-	X	X	X	-	X	-	(⇒ Página 107)	X	X	X	-	X	(⇒ Página 165)
200-200-250	-	-	-	-	-	-	-	X	X	X	-	X	-	(⇒ Página 108)	X	X	X	-	X	(⇒ Página 166)
250-200-315	-	-	-	-	-	-	-	X	X	X	-	X	-	(⇒ Página 109)	X	X	X	-	X	(⇒ Página 167)
250-200-400	-	-	-	-	-	-	-	X	X	X	-	X	-	(⇒ Página 110)	X	X	X	-	X	(⇒ Página 168)
250-200-500	-	-	-	-	-	-	-	X	X	X	-	X	-	(⇒ Página 111)	X	X	X	-	X	(⇒ Página 169)
300-250-315	-	-	-	-	-	-	-	X	X	X	-	X	-	(⇒ Página 112)	X	X	X	-	X	(⇒ Página 170)

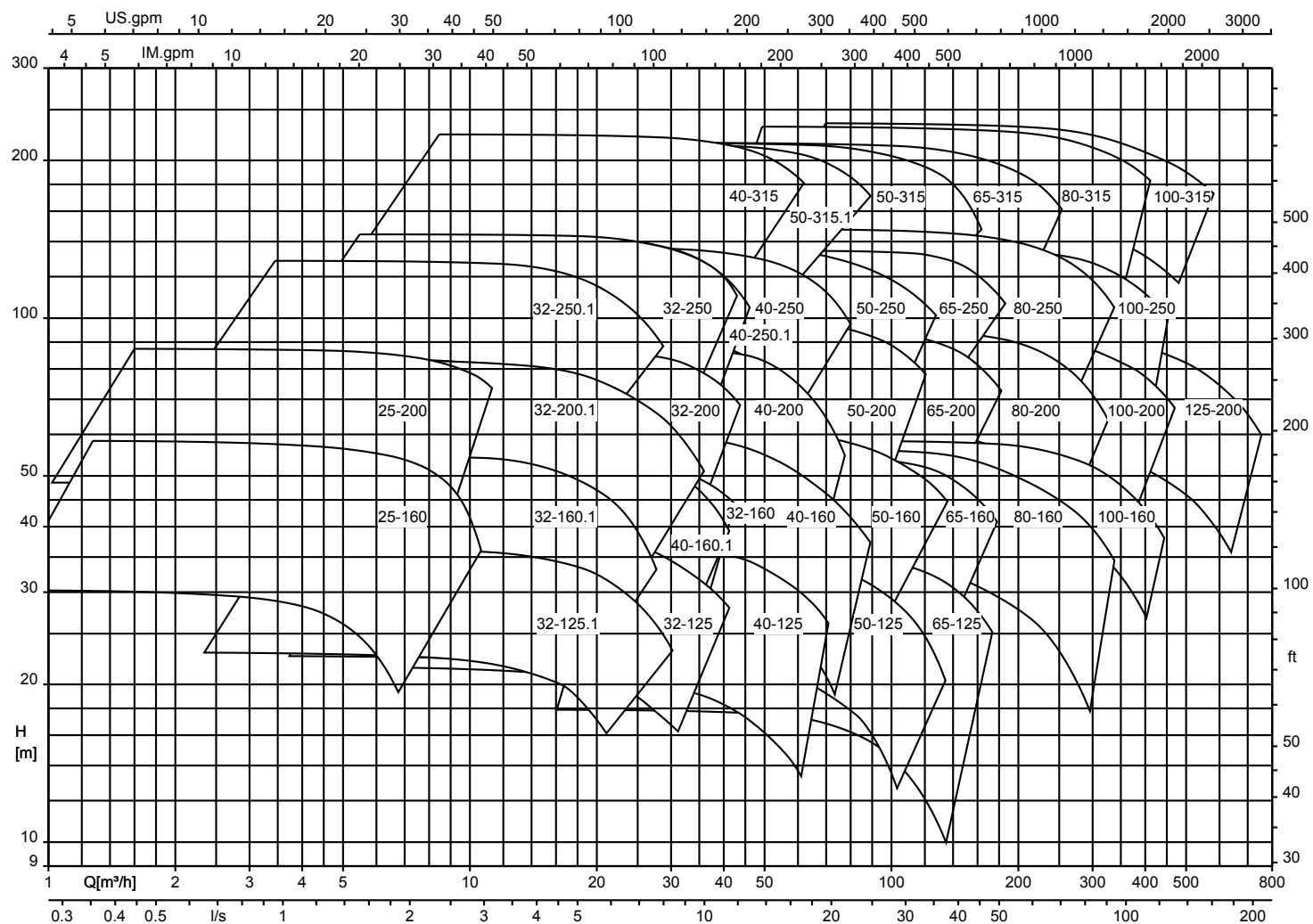
## Diagramas de características

MegaCPK, Magnochem, Magnochem-Bloc, Meganorm, Megabloc,  $n = 3.500 \text{ rpm}$

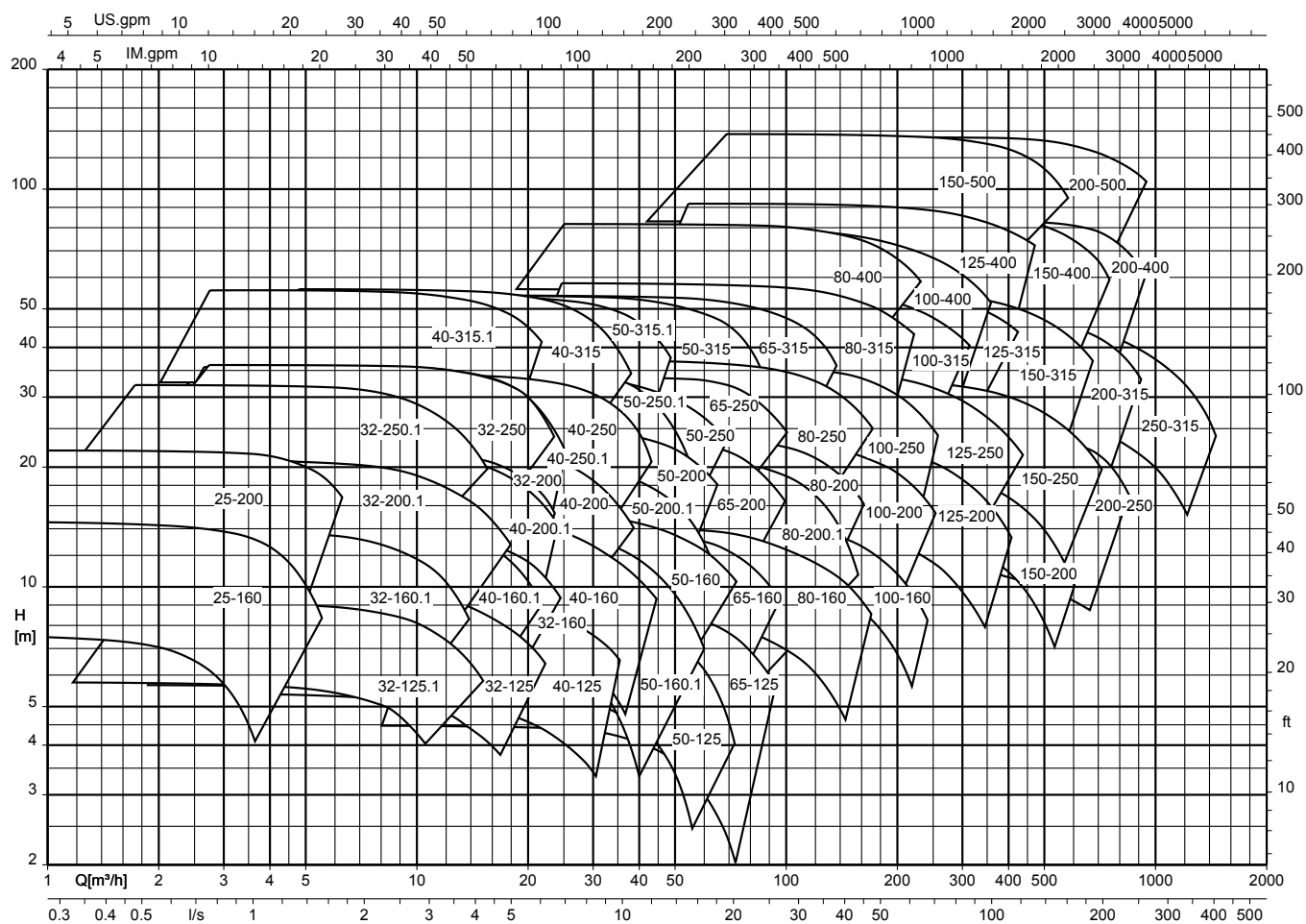


Os tamanhos 40-160.1, 40-200.1, 40-250.1, 40-315.1, 50-160.1, 50-200.1, 50-250.1, 80-200.1 e 50-315.1 estão disponíveis apenas na Europa.

HPK-L, n = 3.500 rpm

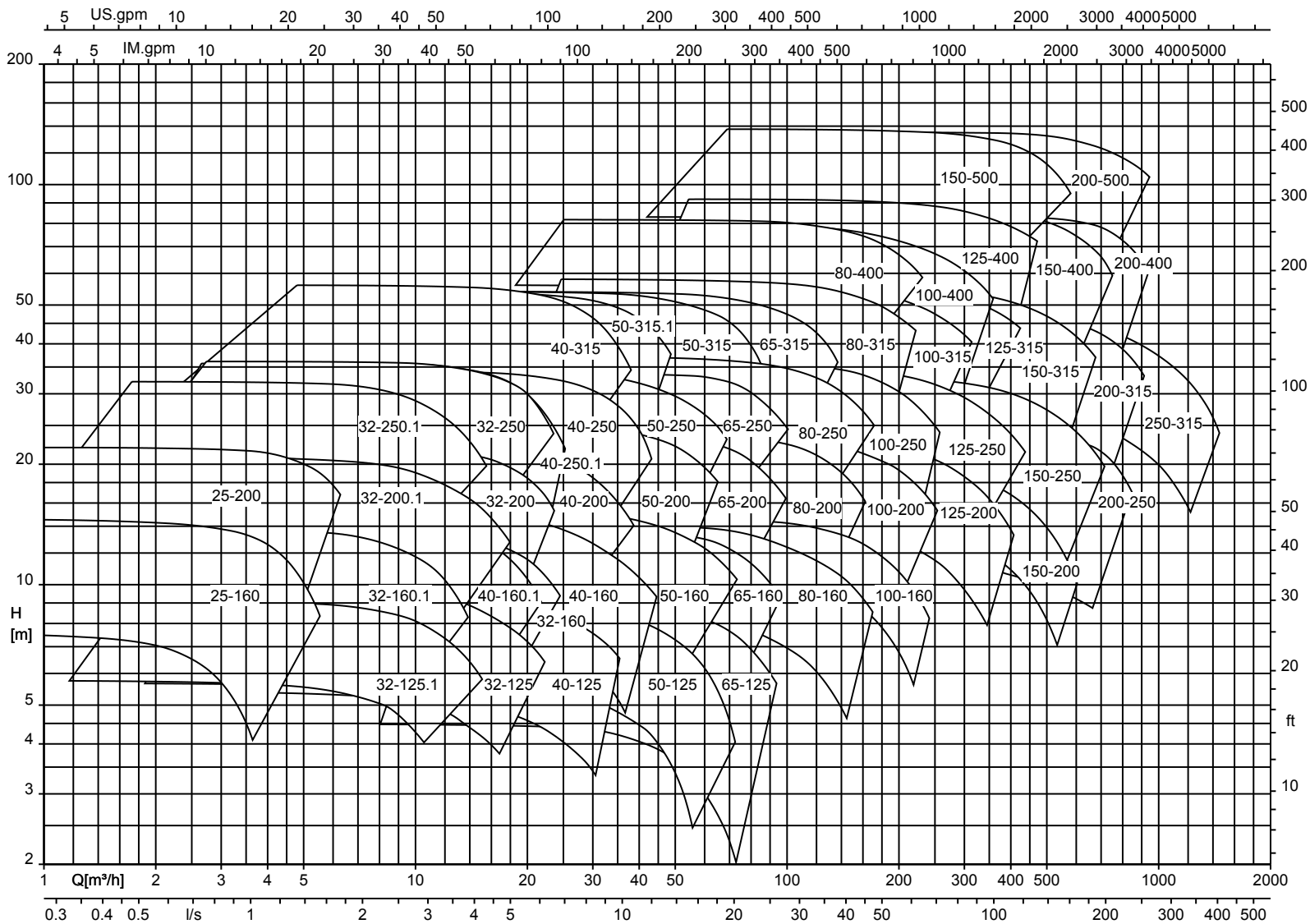


Os tamanhos 40-160.1, 40-250.1 und 50-315.1 estão disponíveis apenas na Europa.

MegaCPK, Magnochem, Magnochem-Bloc, Meganorm, Megabloc,  $n = 1.750 \text{ rpm}$ 

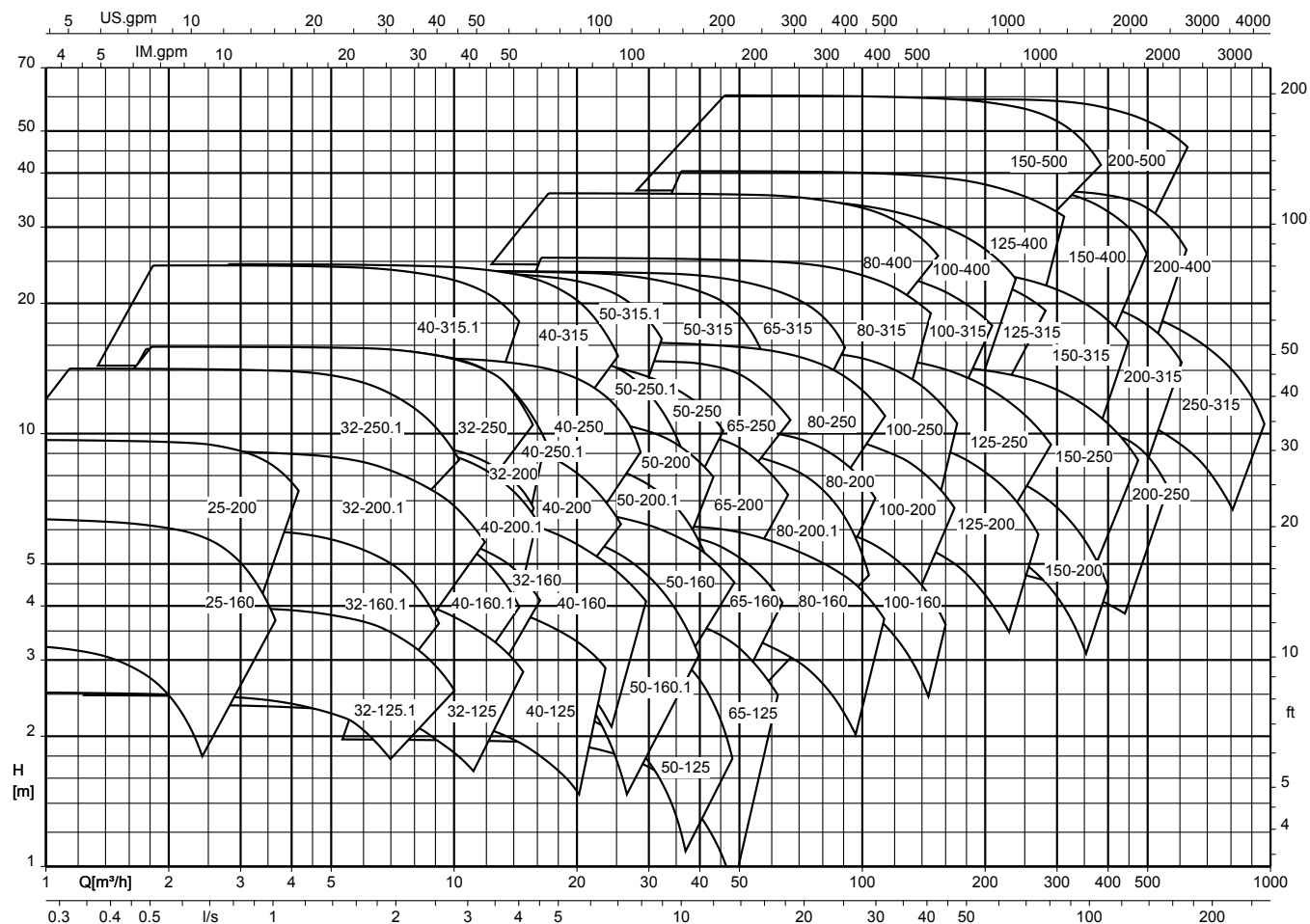
Os tamanhos 40-160.1, 40-200.1, 40-250.1, 40-315.1, 50-160.1, 50-200.1, 50-250.1, 80-200.1 e 50-315.1 estão disponíveis apenas na Europa.

HPK-L, n = 1.750 rpm



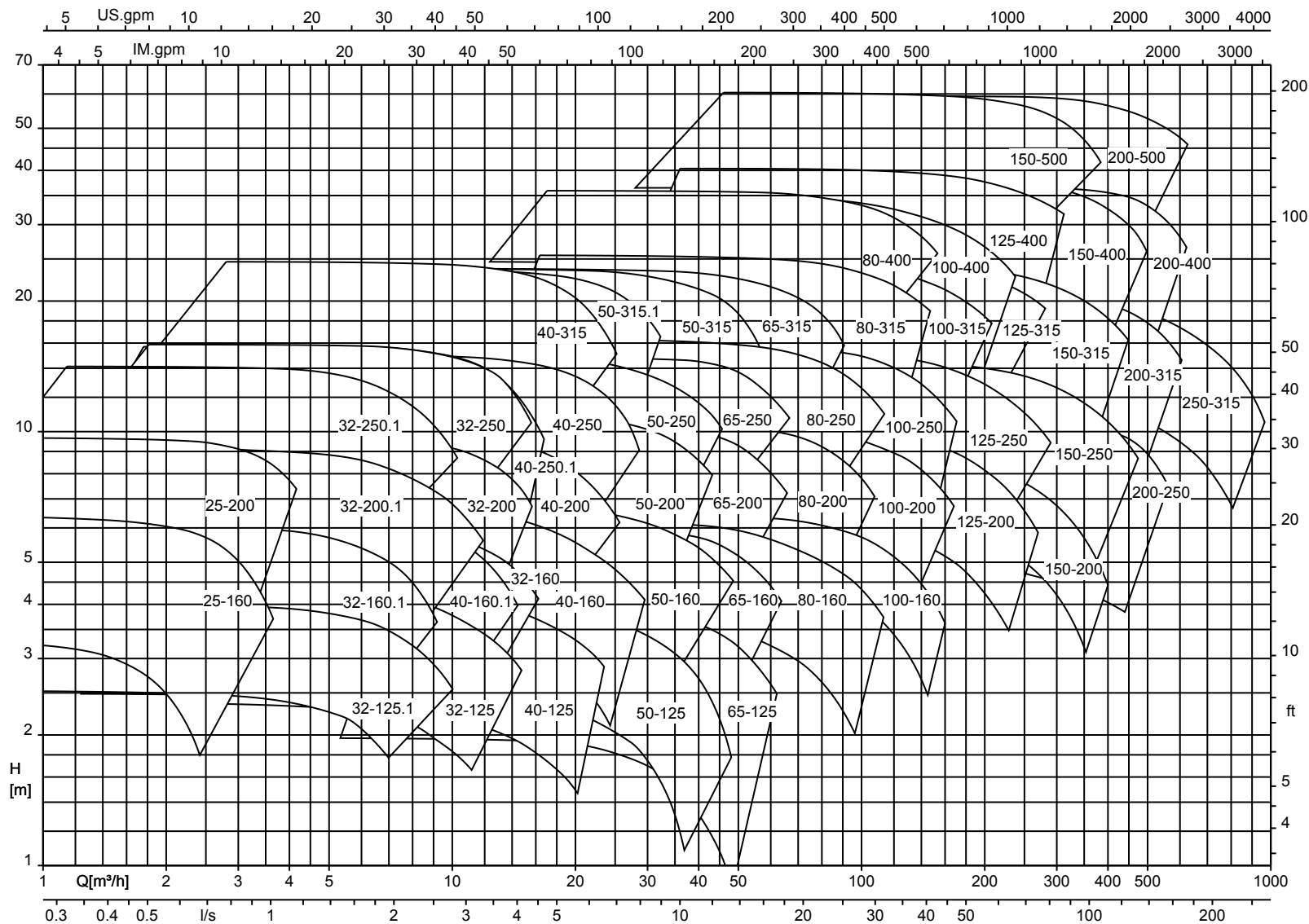
Os tamanhos 40-160.1, 40-250.1 und 50-315.1 estão disponíveis apenas na Europa.

MegaCPK, Magnochem, Magnochem-Bloc, Meganorm, n = 1.160 rpm



Os tamanhos 40-160.1, 40-200.1, 40-250.1, 40-315.1, 50-160.1, 50-200.1, 50-250.1, 80-200.1 e 50-315.1 estão disponíveis apenas na Europa.

HPK-L, n = 1.160 rpm



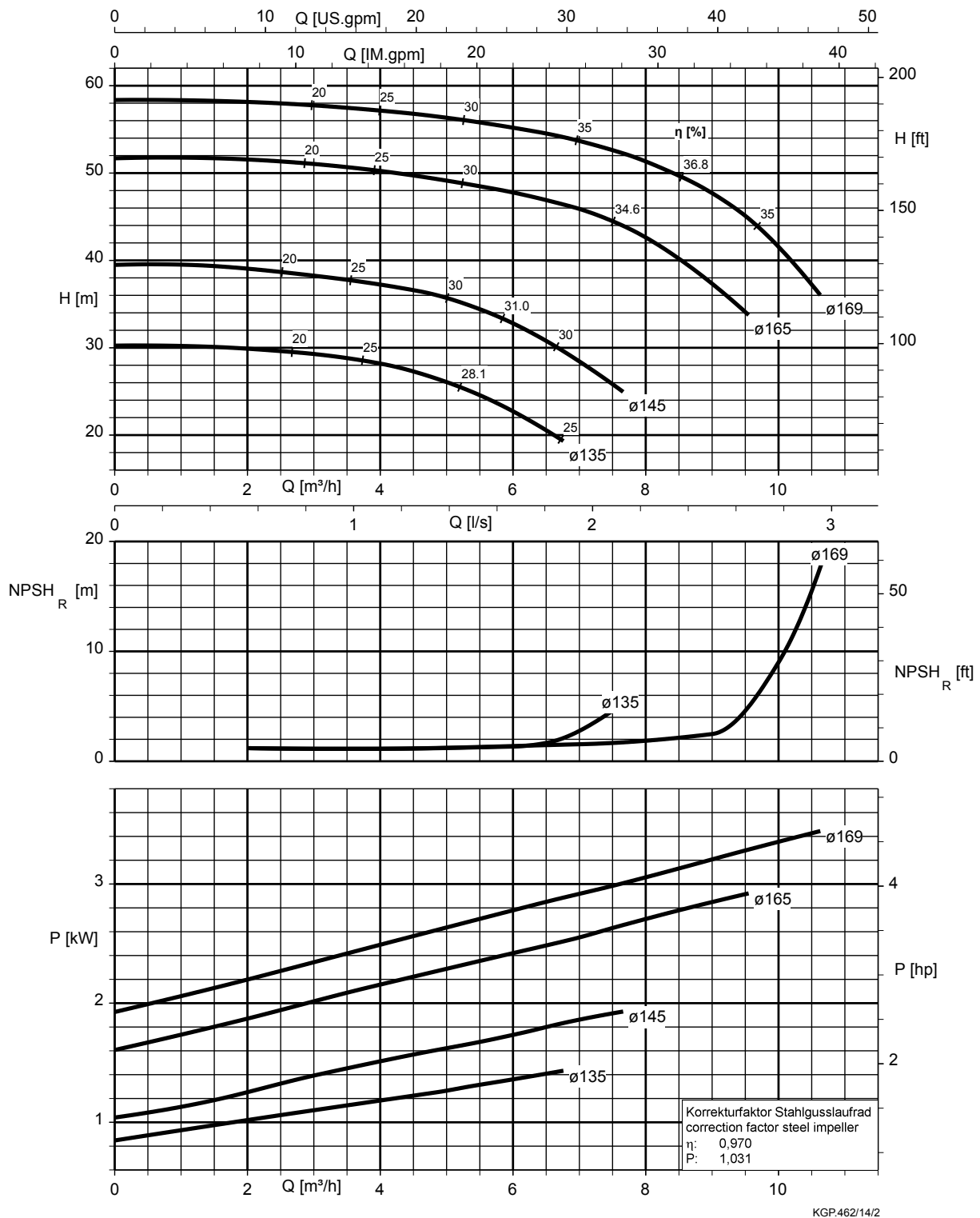
Os tamanhos 40-160.1, 40-250.1 und 50-315.1 estão disponíveis apenas na Europa.

## Curvas características

$n = 3500 \text{ rpm}$

### MegaCPK 040-025-160, $n = 3.500 \text{ rpm}$

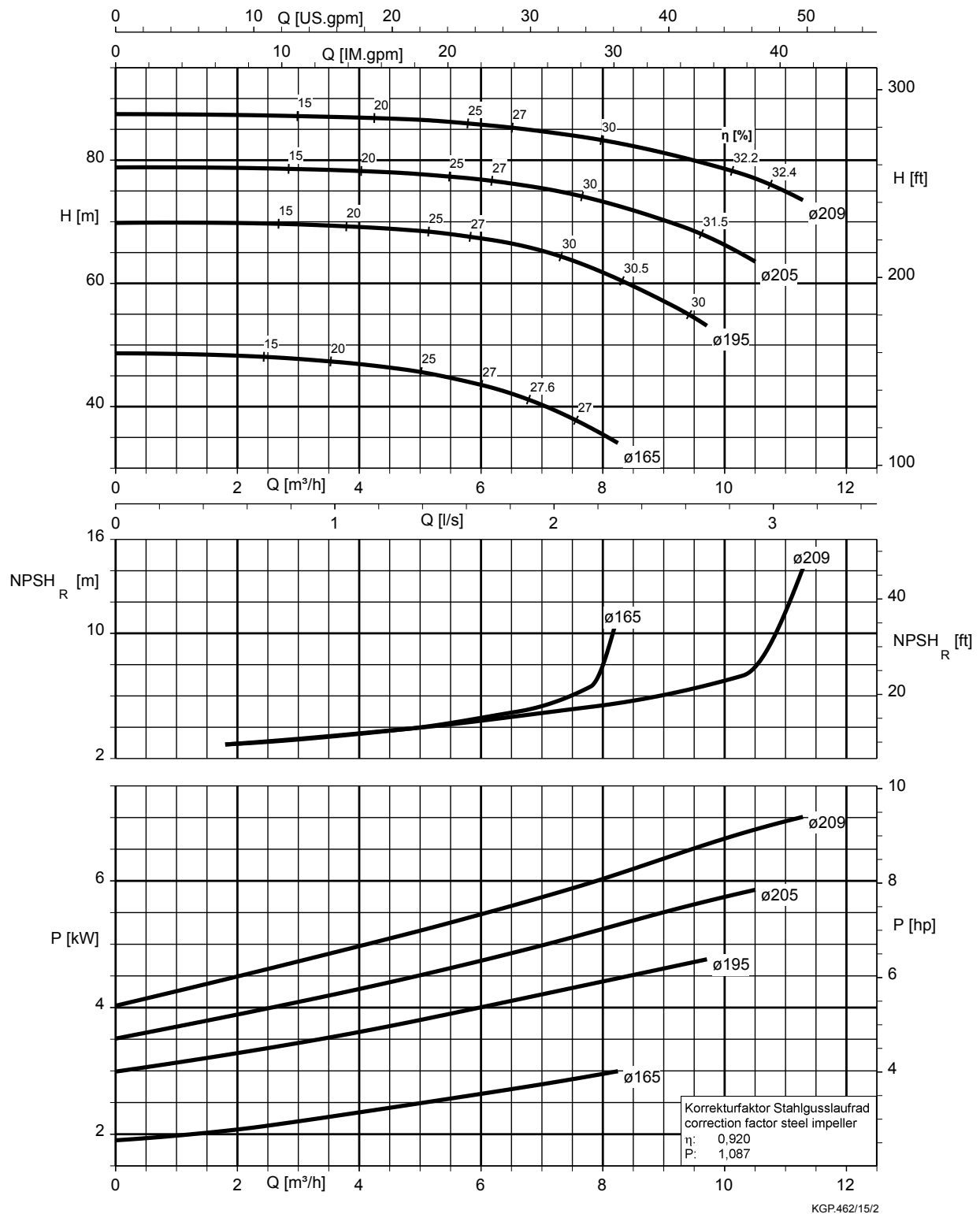
HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc





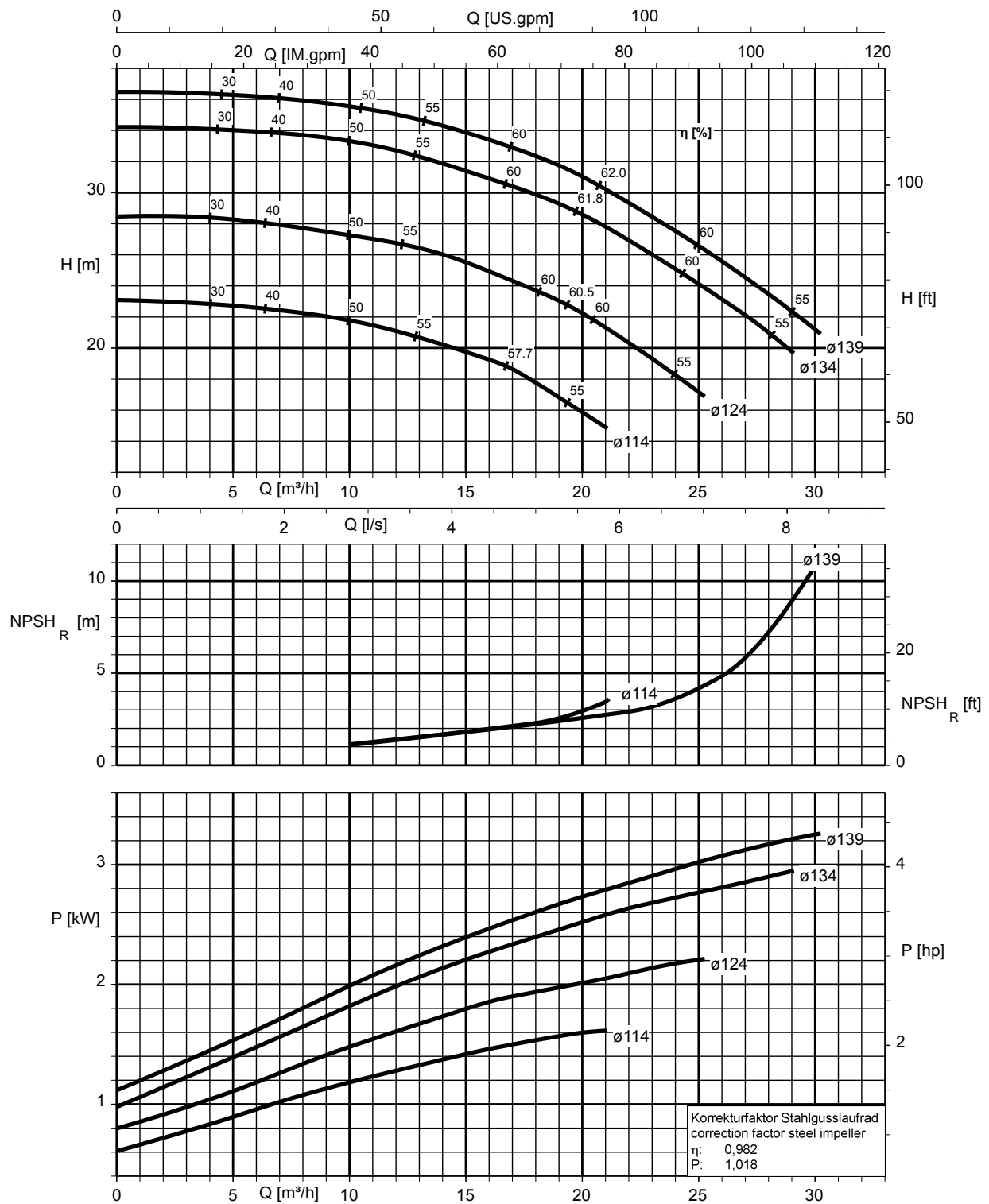
**MegaCPK 040-025-200, n = 3.500 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



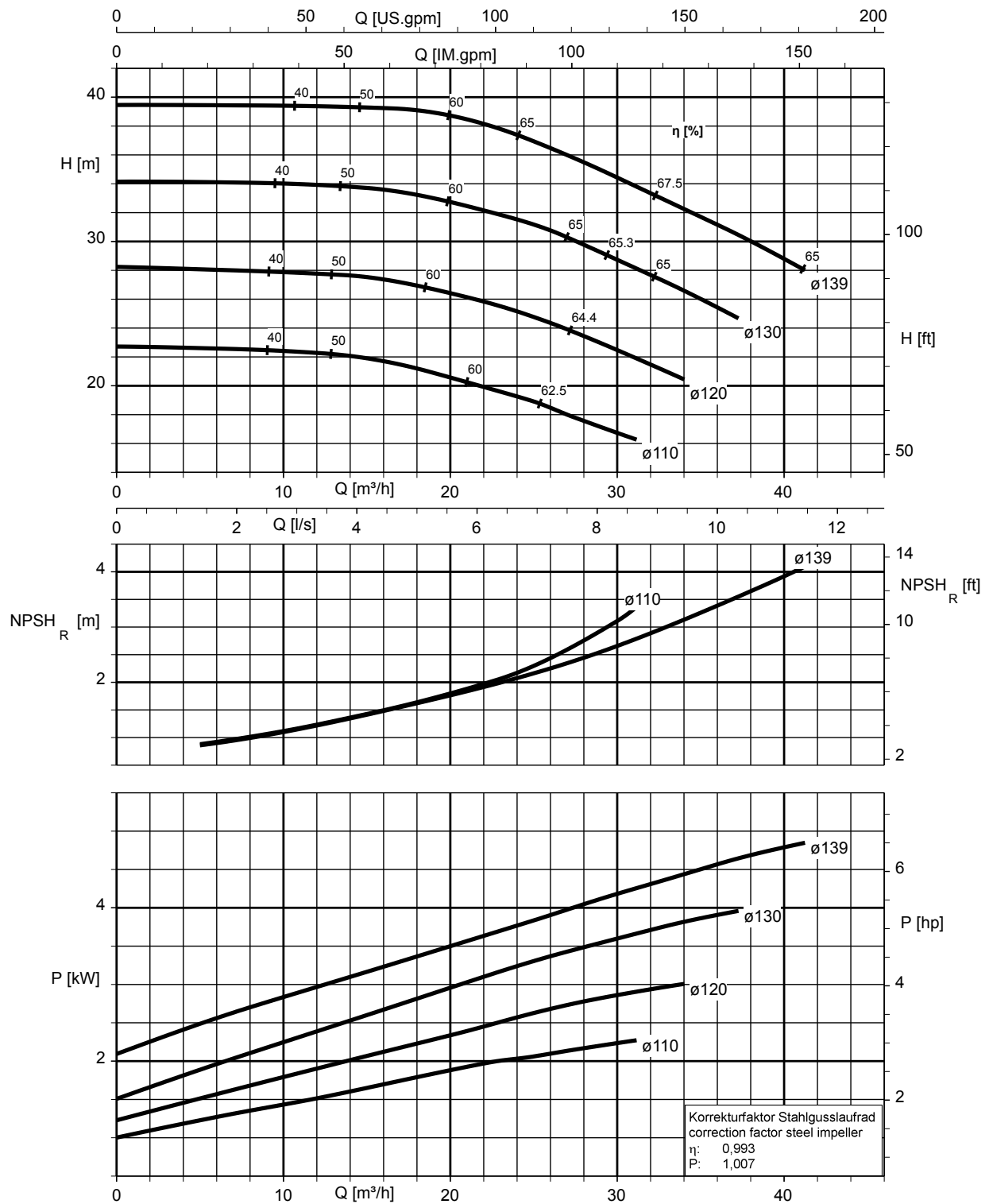
**MegaCPK 050-032-125.1, n = 3.500 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



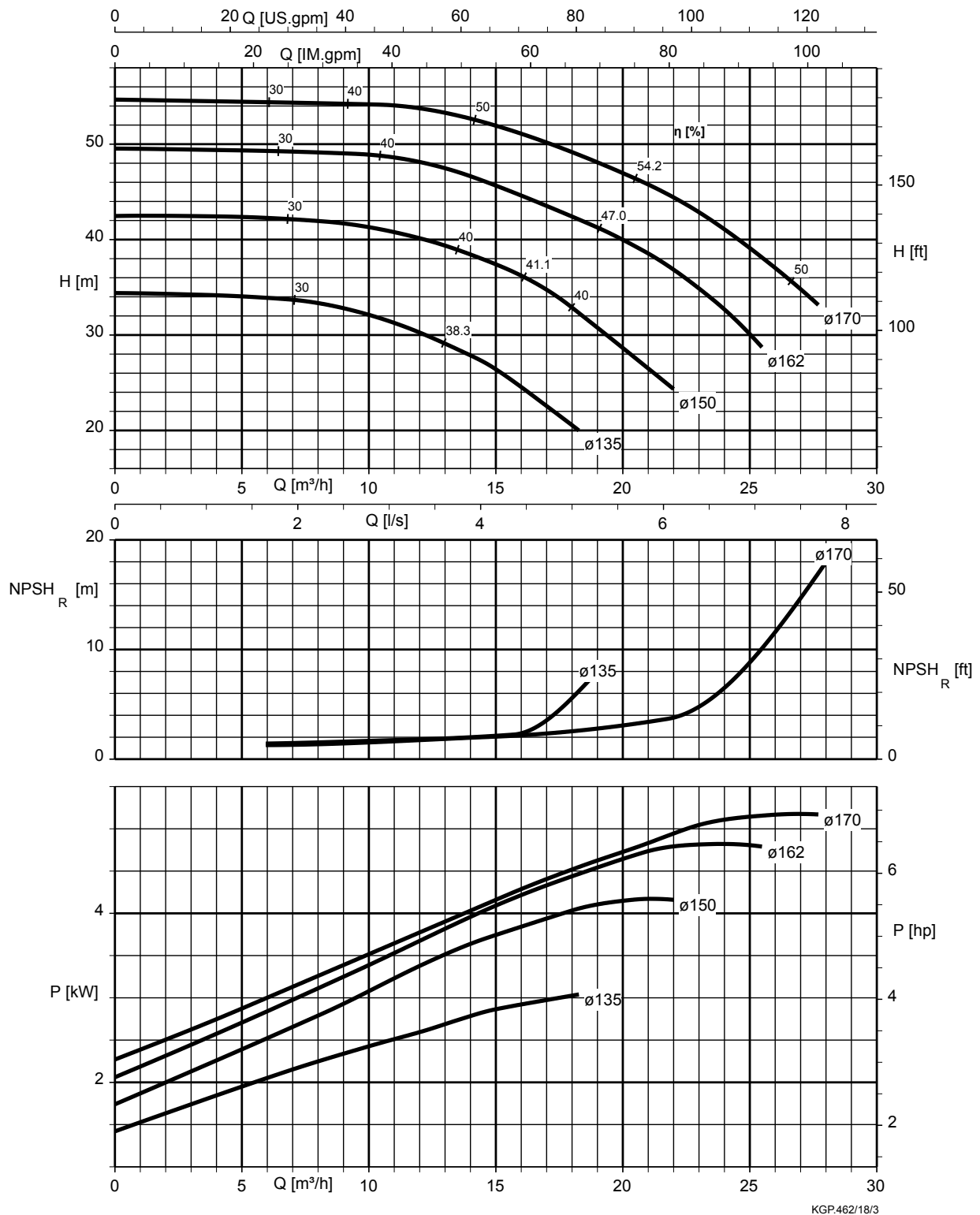
**MegaCPK 050-032-125, n = 3.500 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



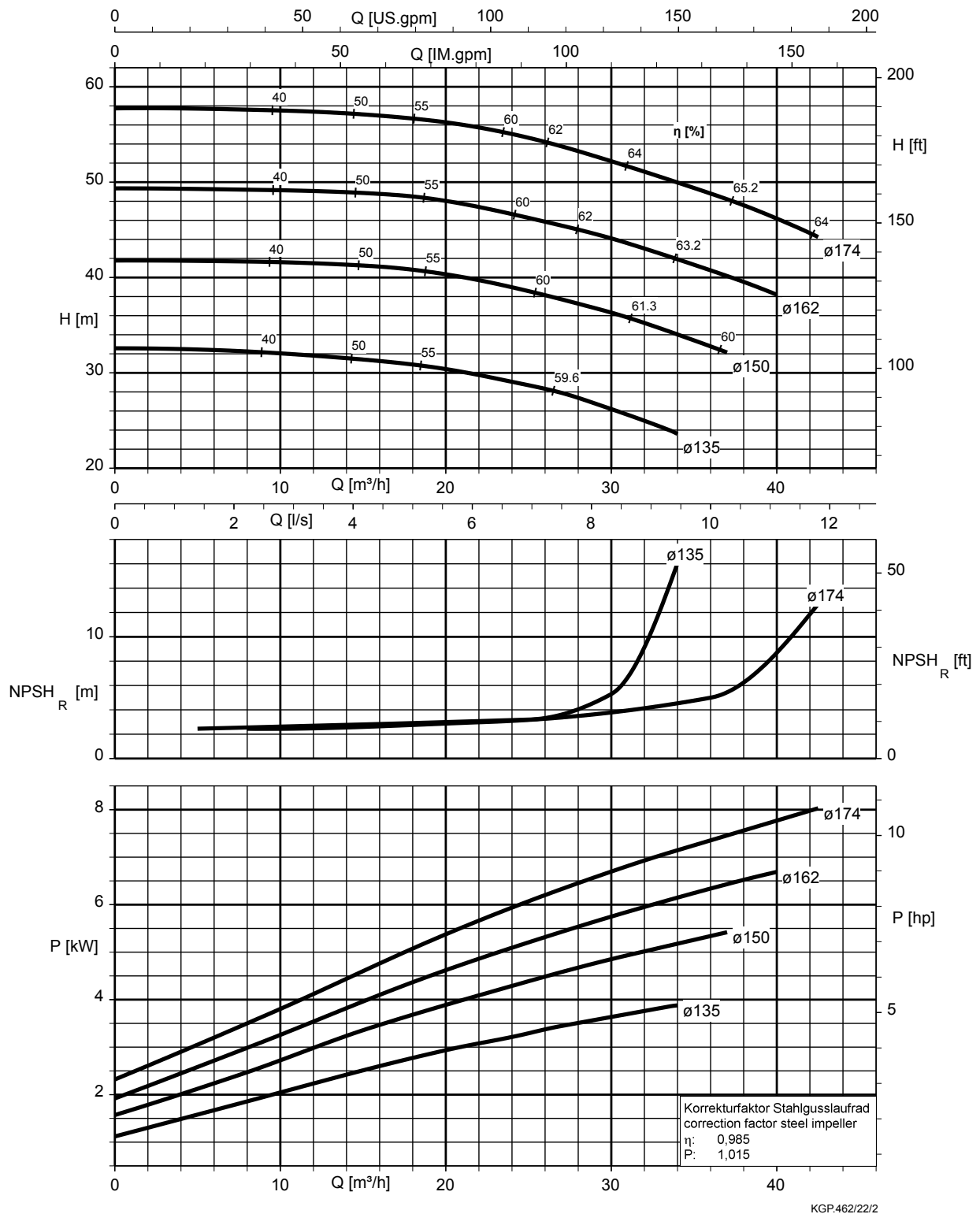
**MegaCPK 050-032-160.1,  $n = 3.500$  rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



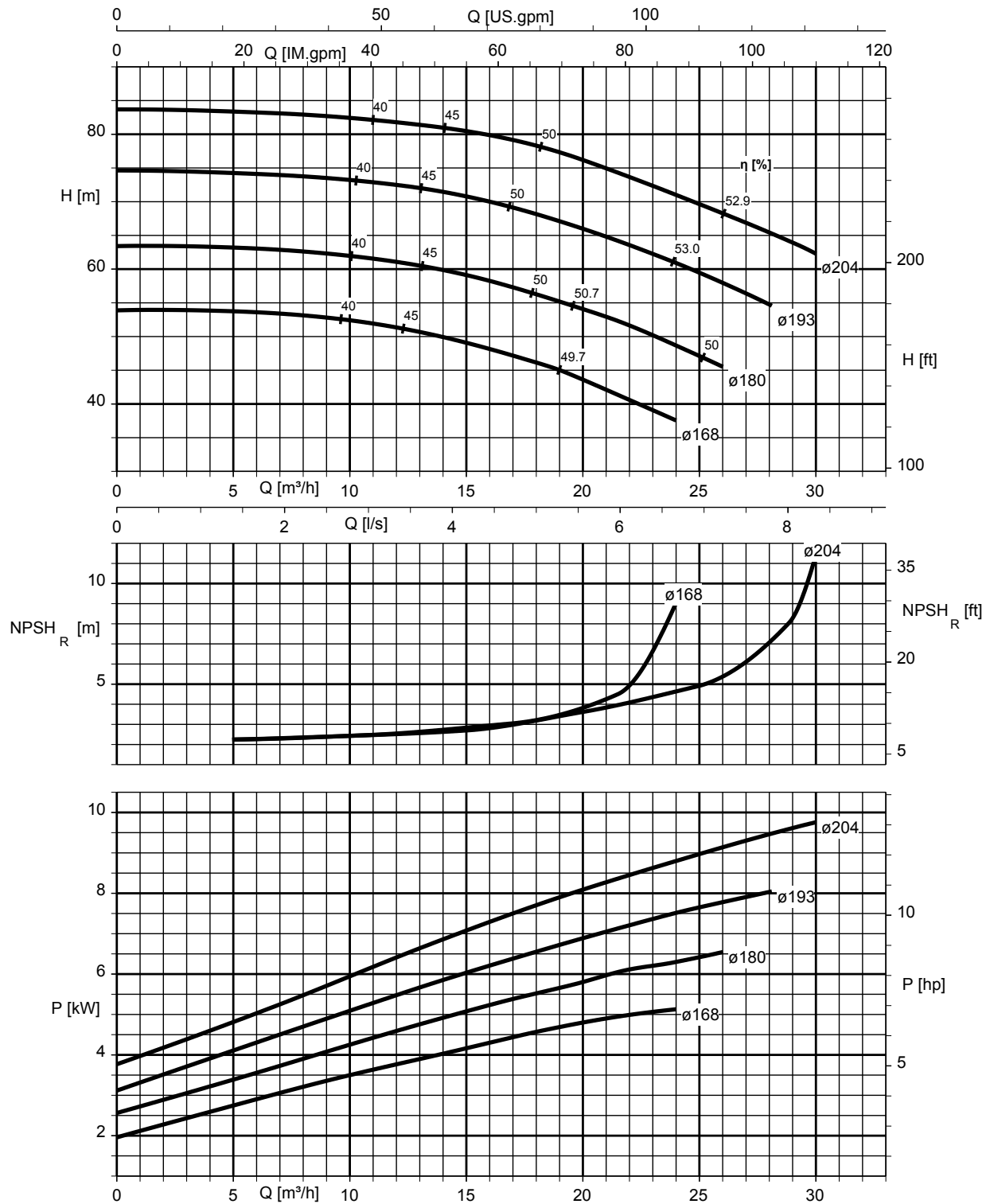
**MegaCPK 050-032-160, n = 3.500 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



**MegaCPK 050-032-200.1, n = 3.500 rpm**

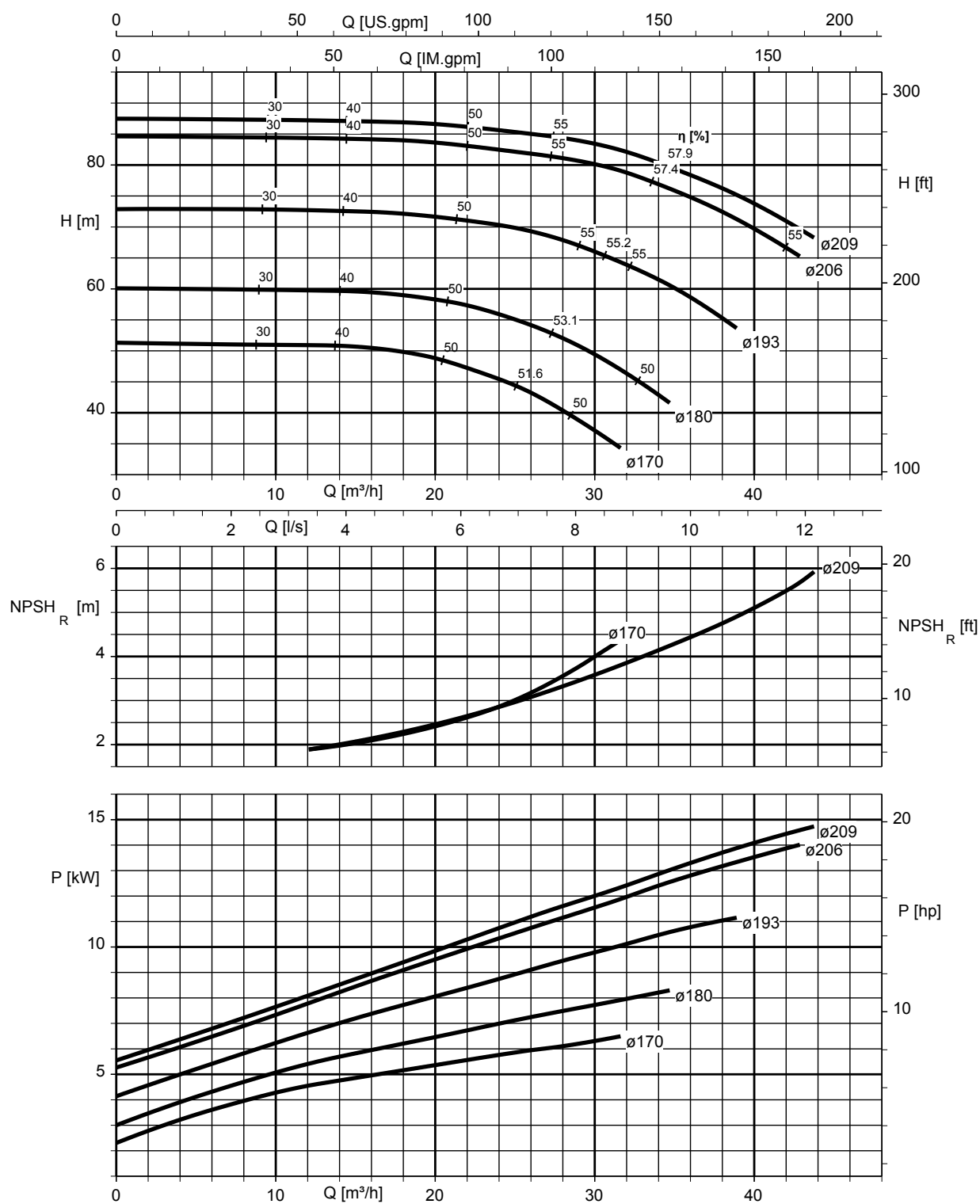
HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



KGP.462/19/2

**MegaCPK 050-032-200, n = 3.500 rpm**

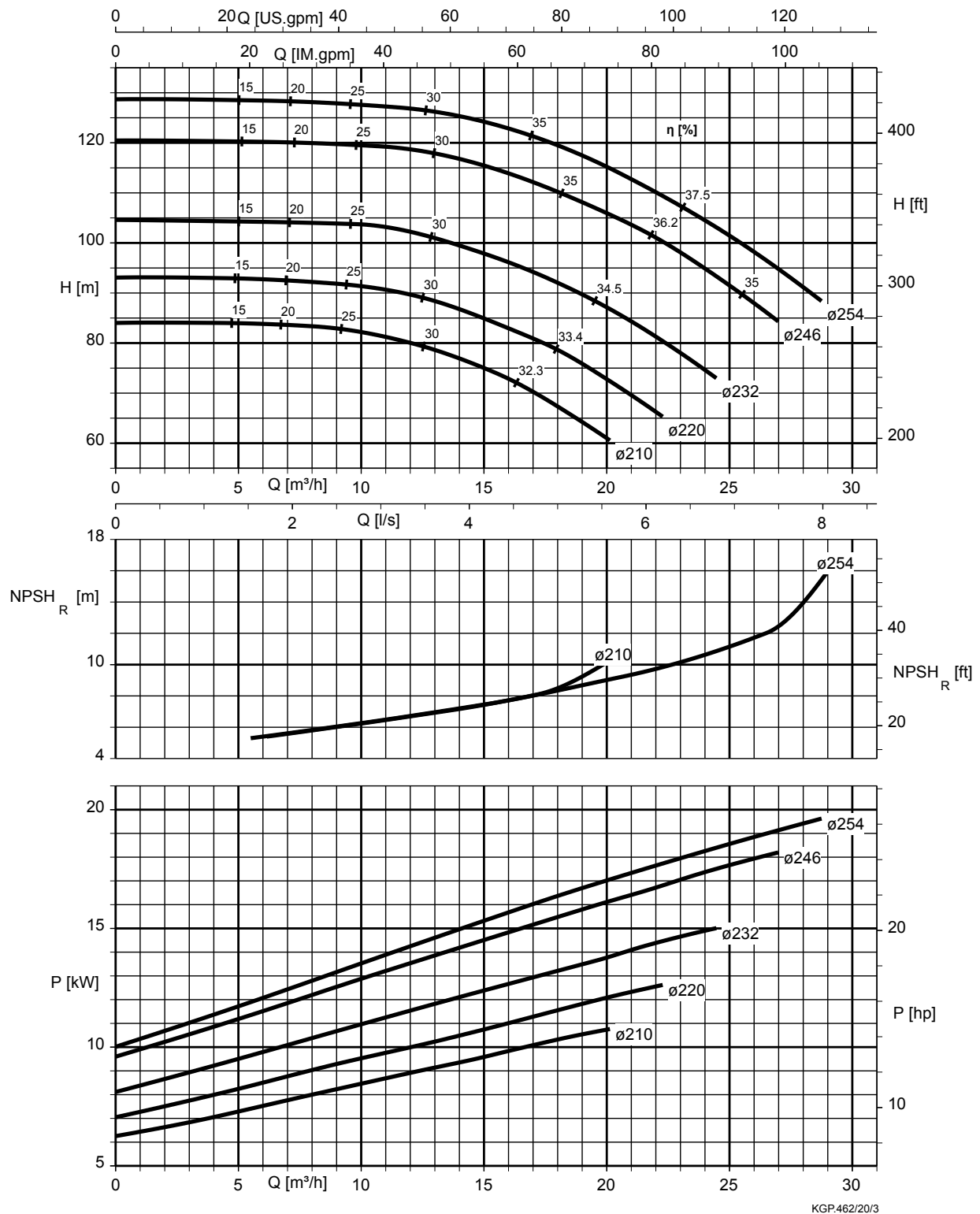
HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



KGP.462/23/0

**MegaCPK 050-032-250.1, n = 3.500 rpm**

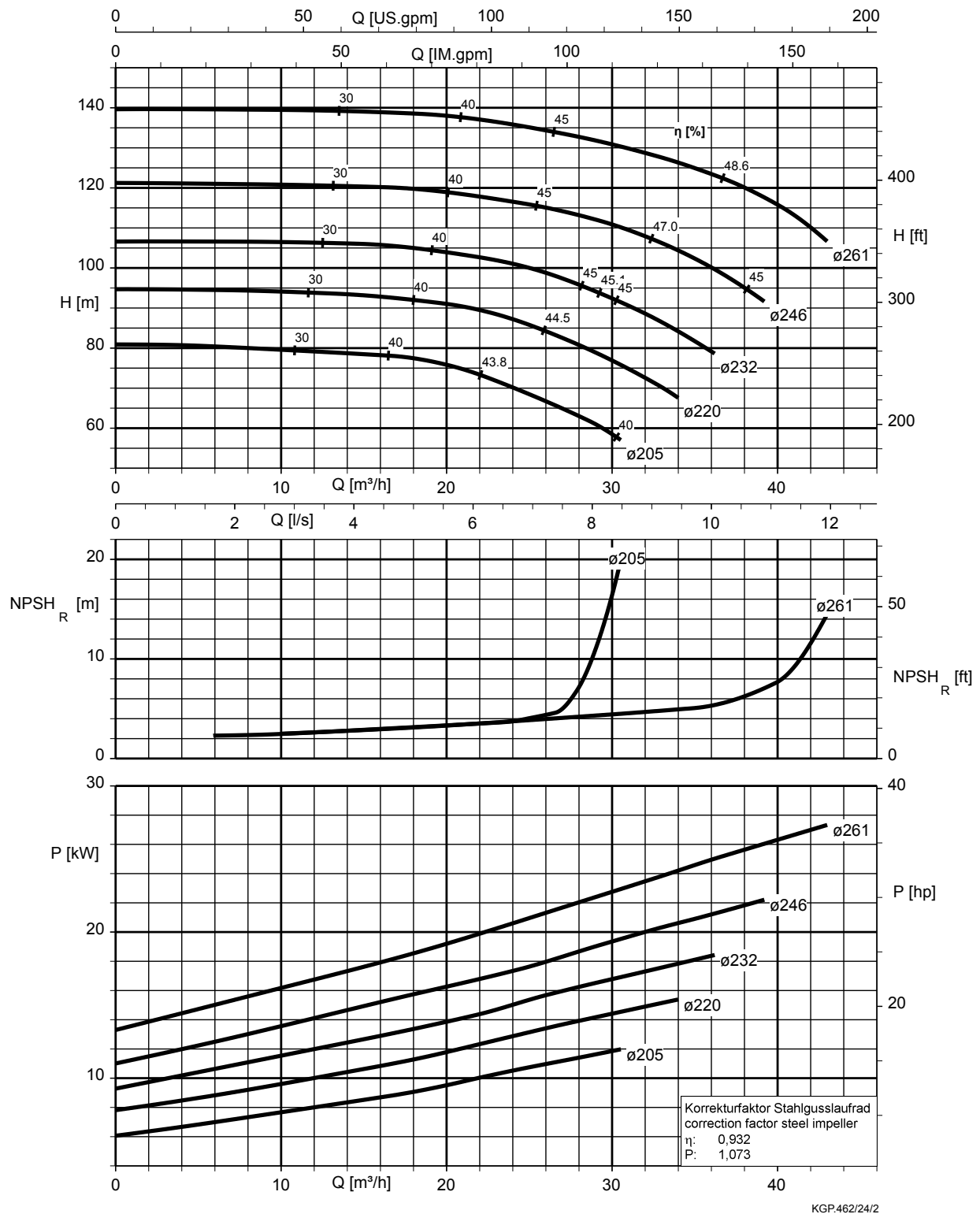
HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc





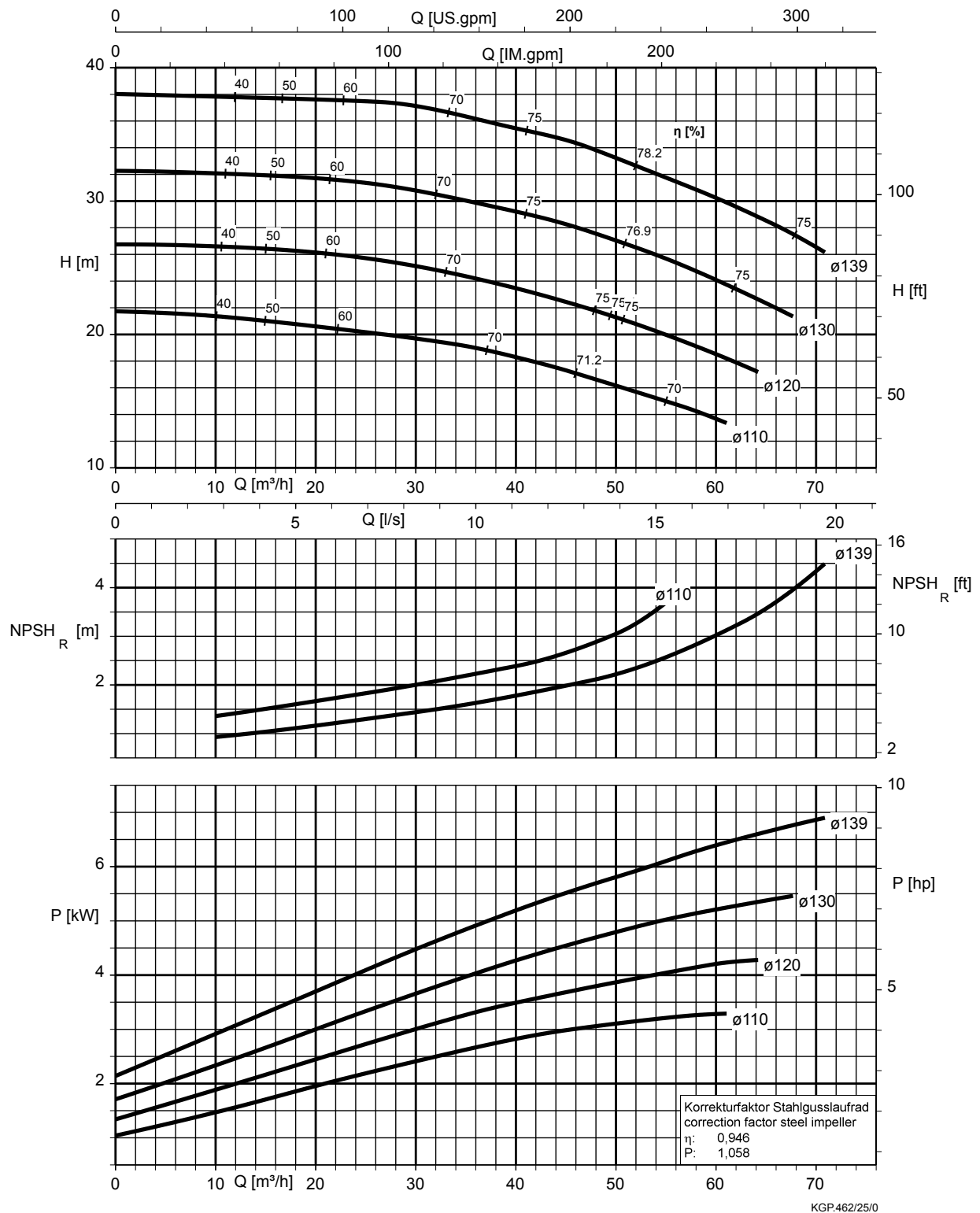
**MegaCPK 050-032-250, n = 3.500 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



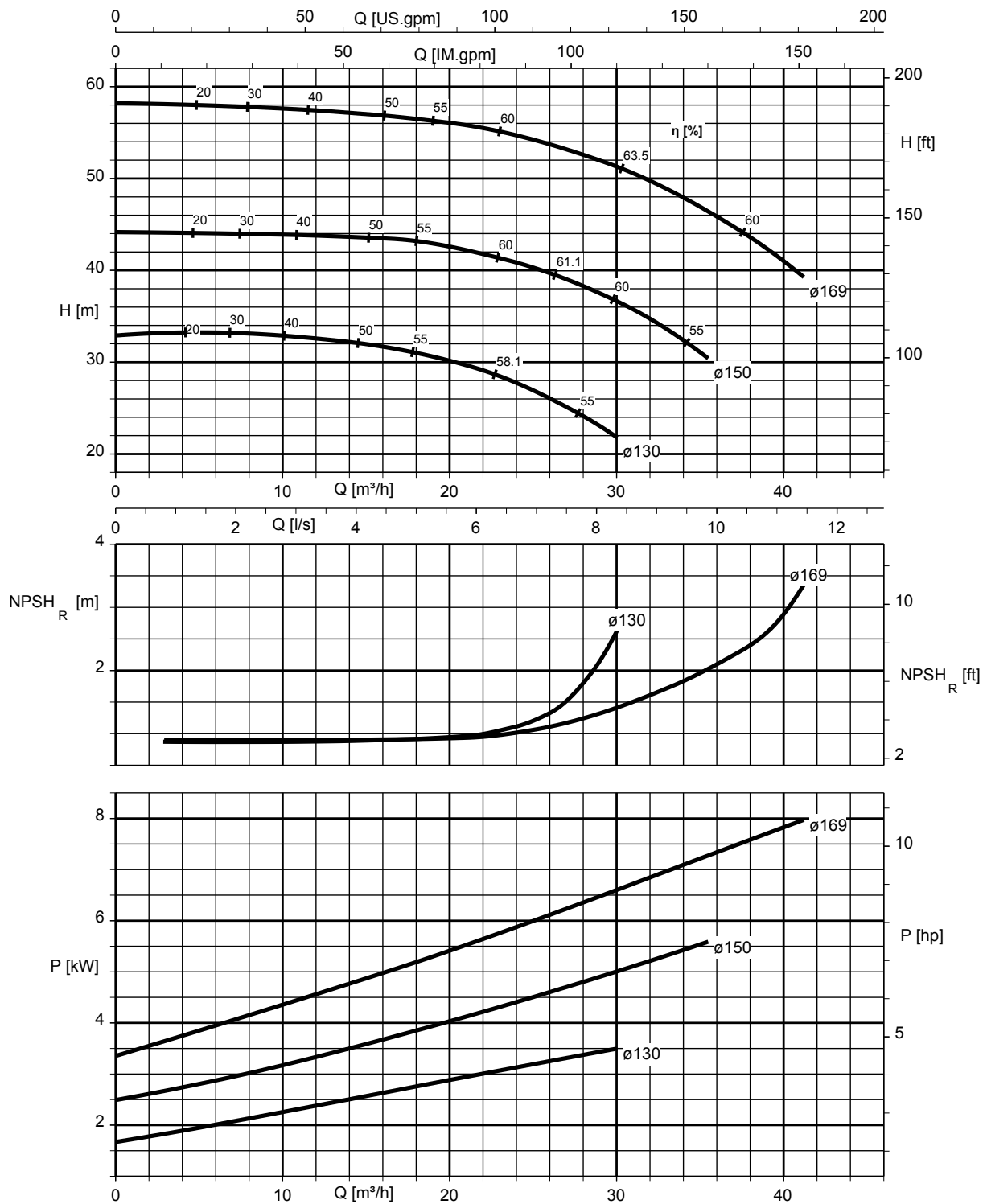
**MegaCPK 065-040-125, n = 3.500 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



**MegaCPK 065-040-160.1, n = 3500 rpm**

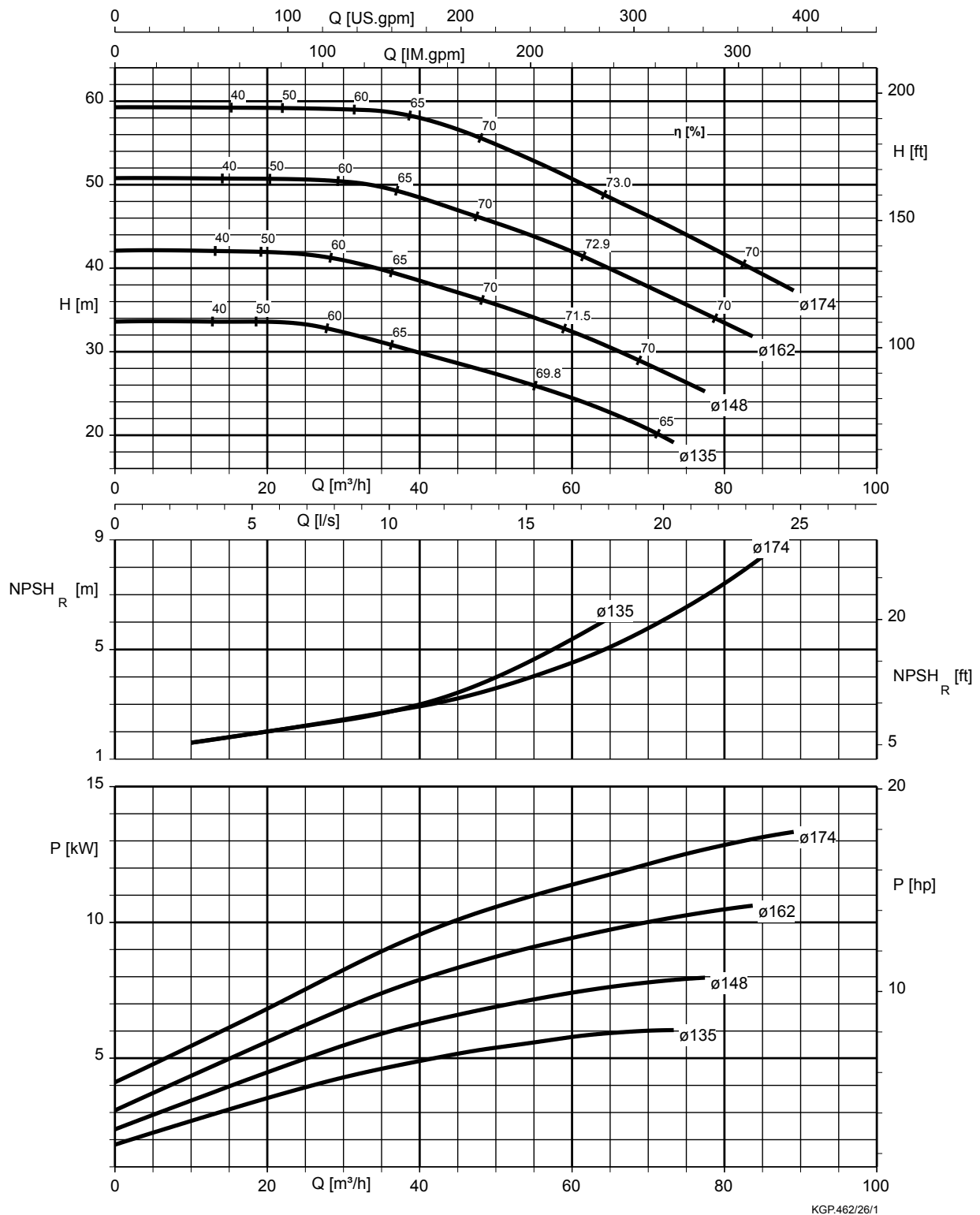
HPK-L, Magnochem, Magnochem-Bloc



KGP462/11/0

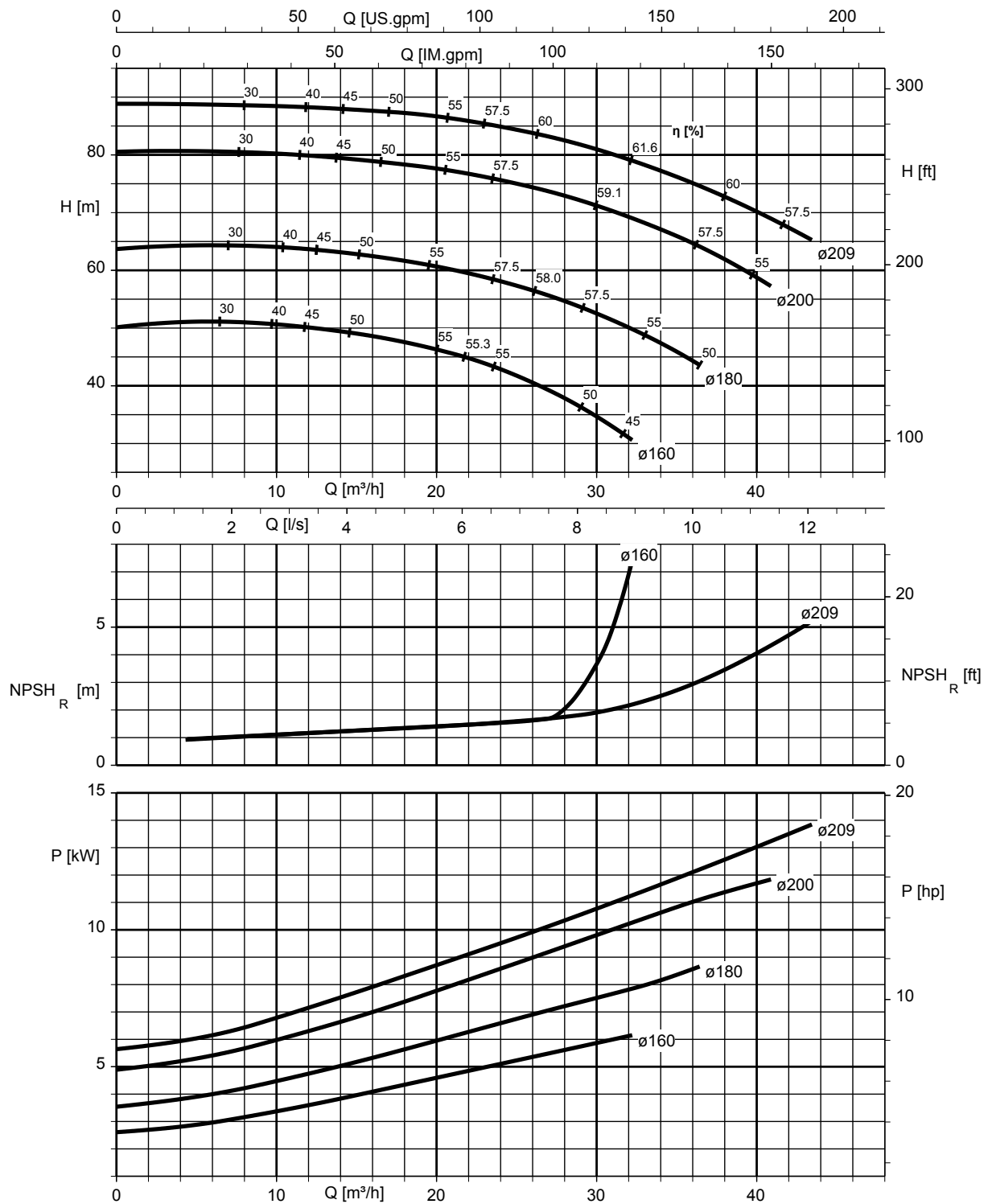
**MegaCPK 065-040-160, n = 3.500 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



**MegaCPK 065-040-200.1, n = 3500 rpm**

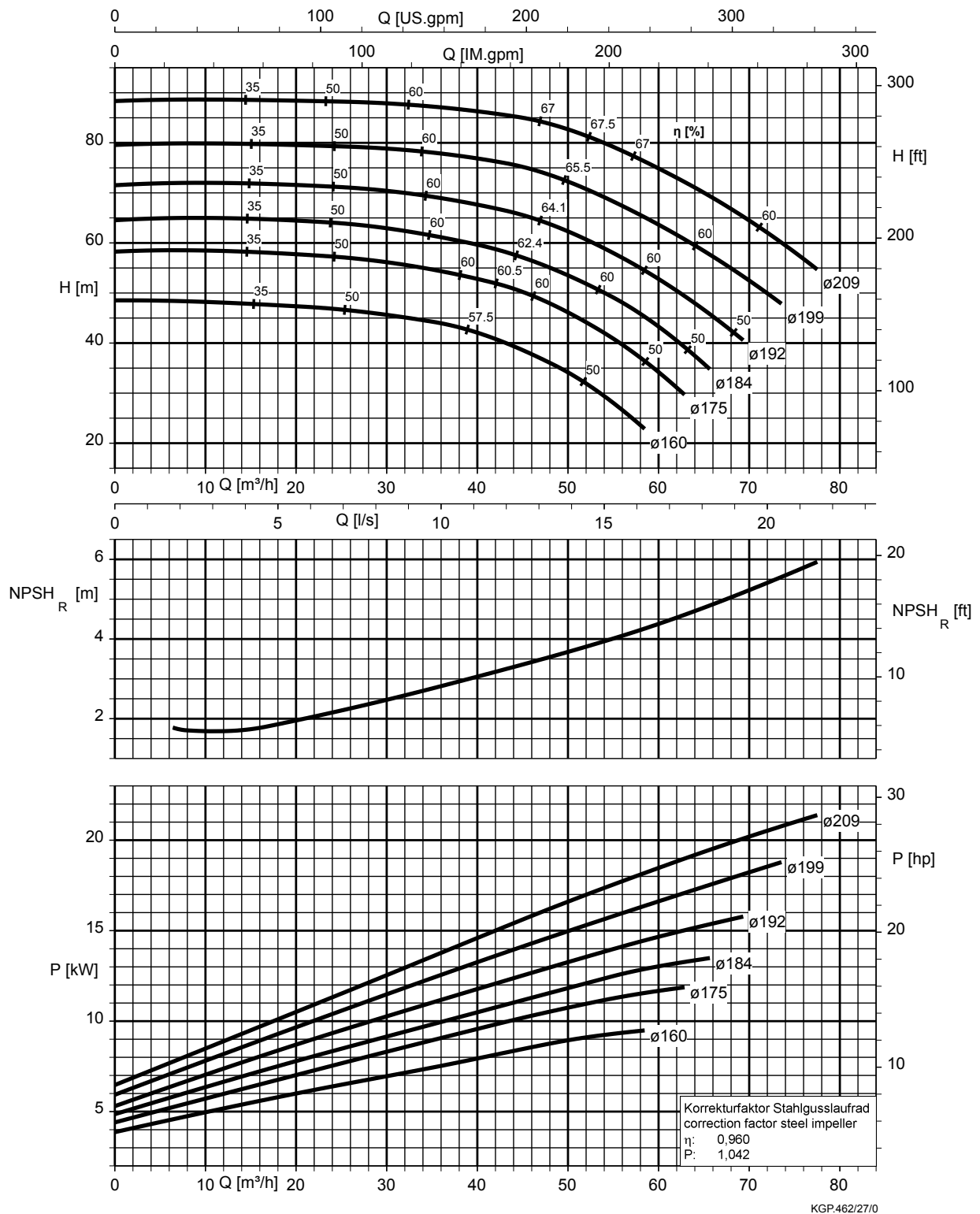
Magnochem, Magnochem-Bloc



KGP.462/05/0

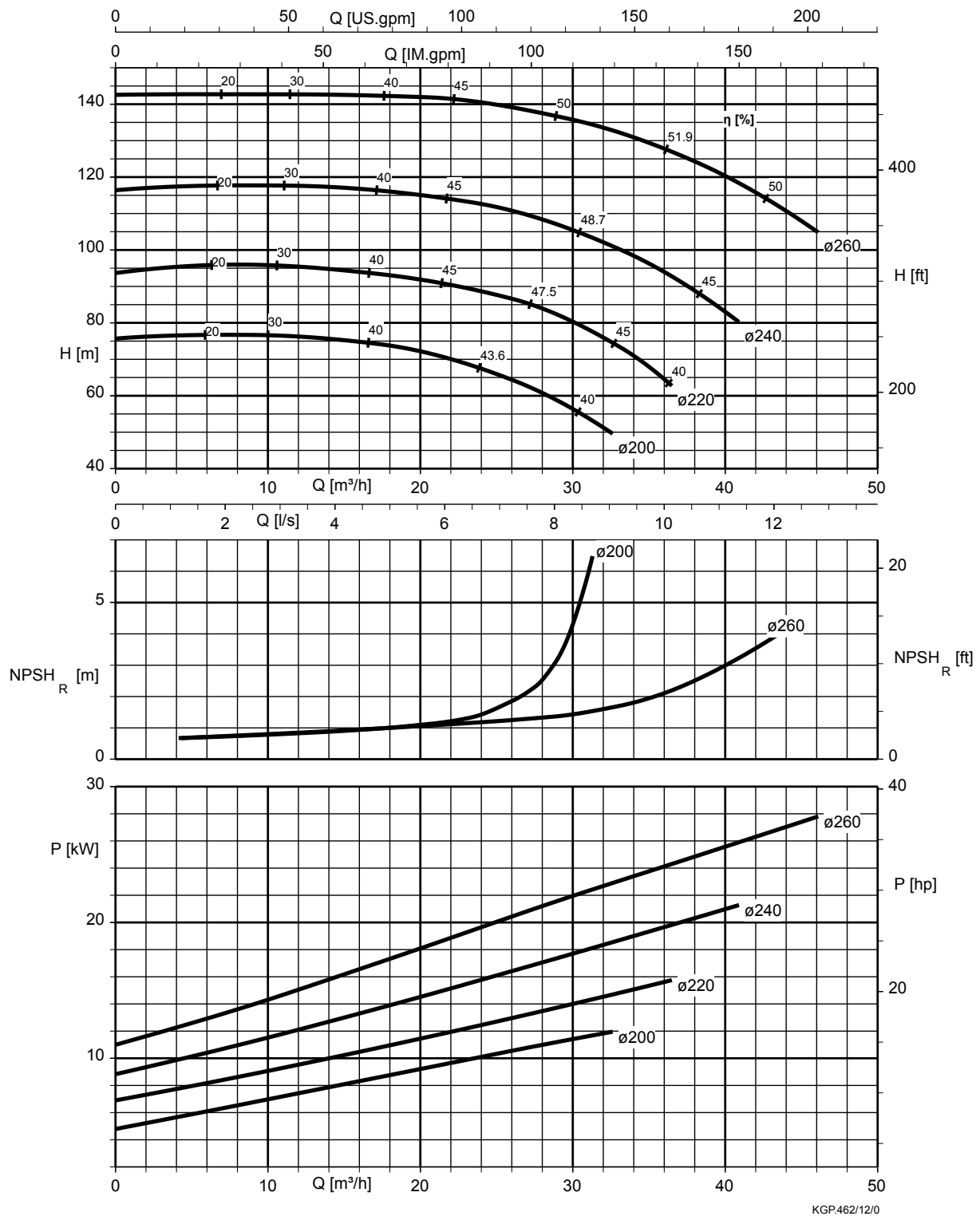
**MegaCPK 065-040-200, n = 3.500 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



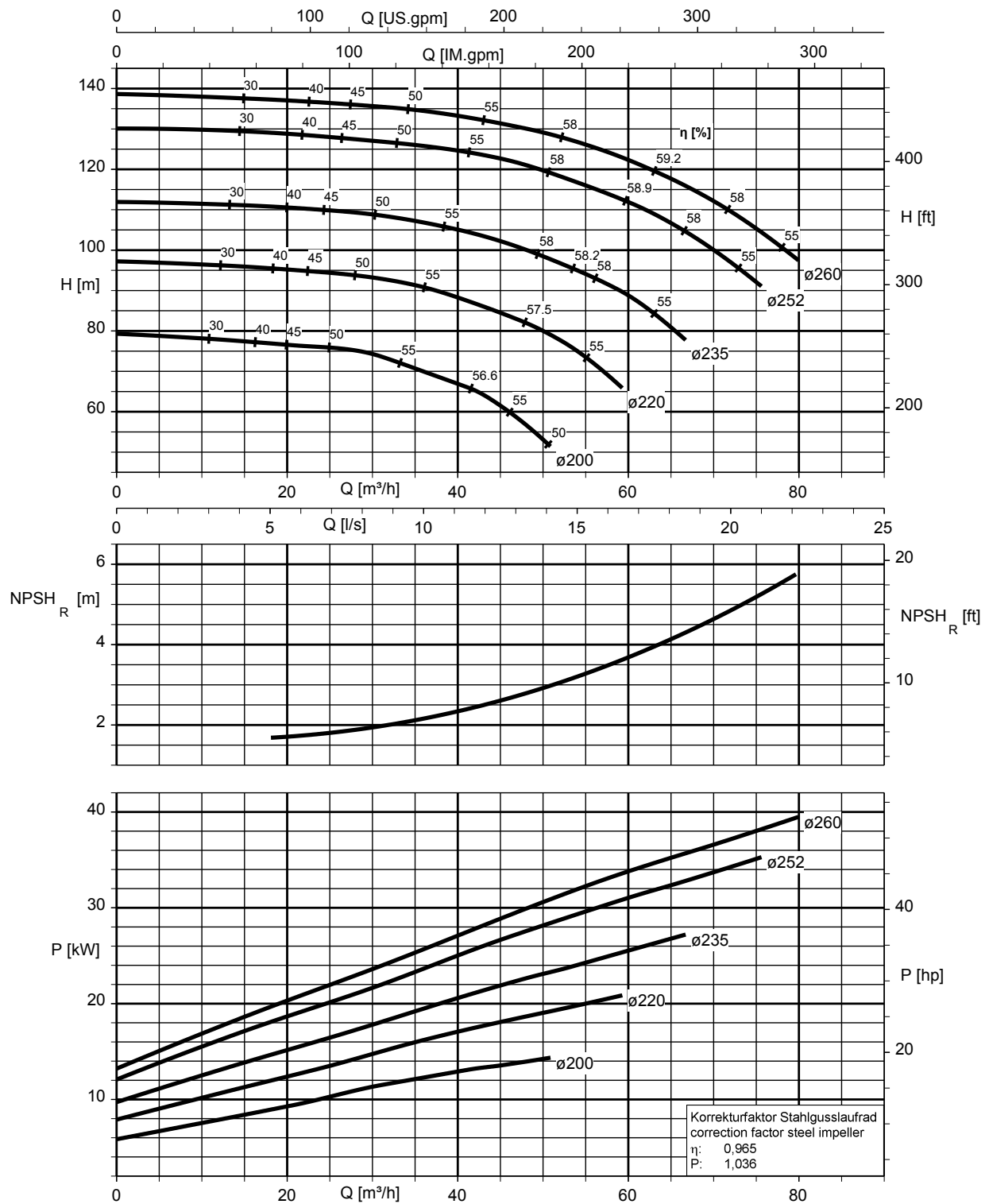
**MegaCPK 065-040-250.1, n = 3500 rpm**

HPK-L, Magnochem, Magnochem-Bloc



**MegaCPK 065-040-250, n = 3.500 rpm**

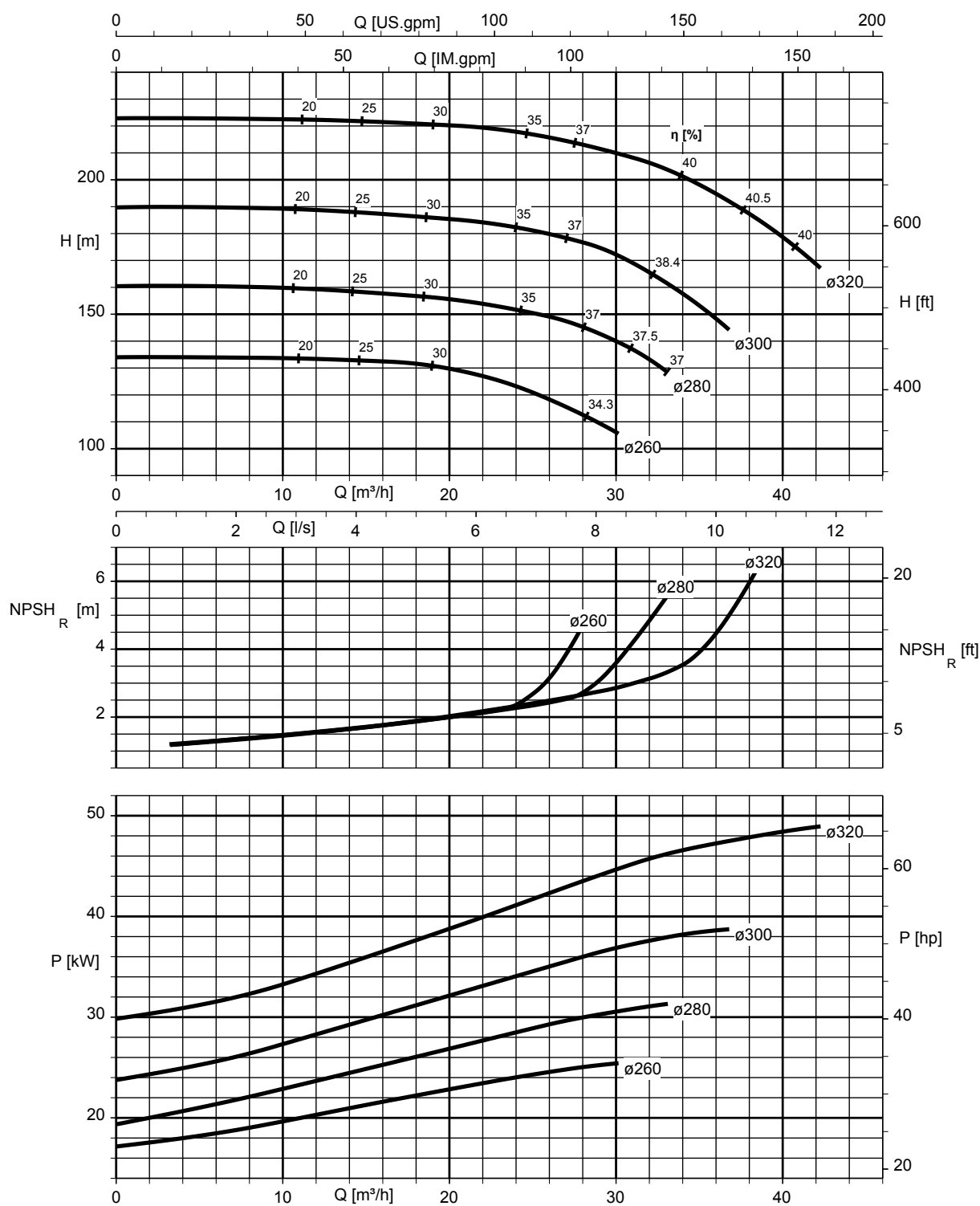
HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc





**MegaCPK 065-040-315.1, n = 3500 rpm**

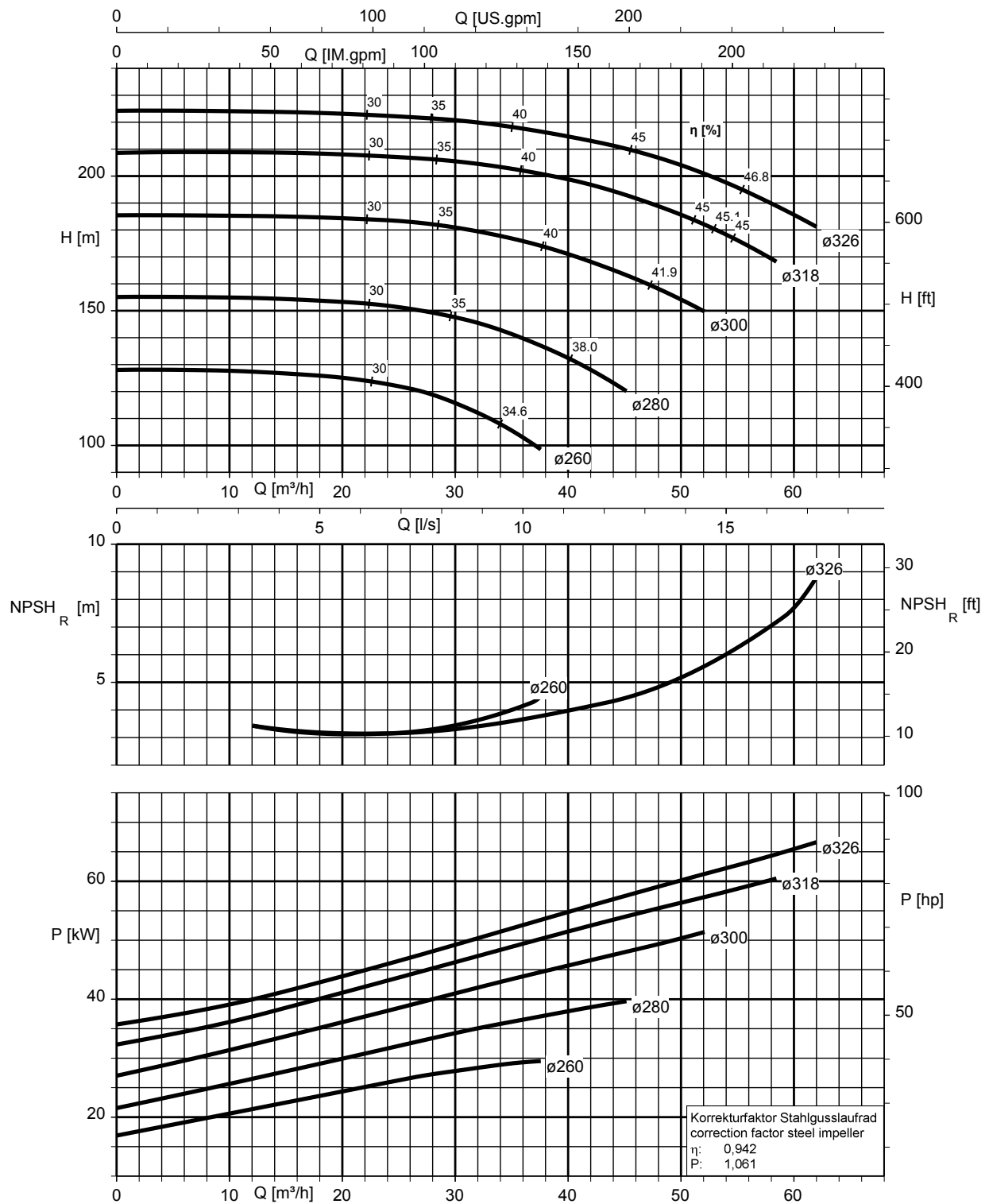
Magnochem, Magnochem-Bloc



KGP.462/06/0

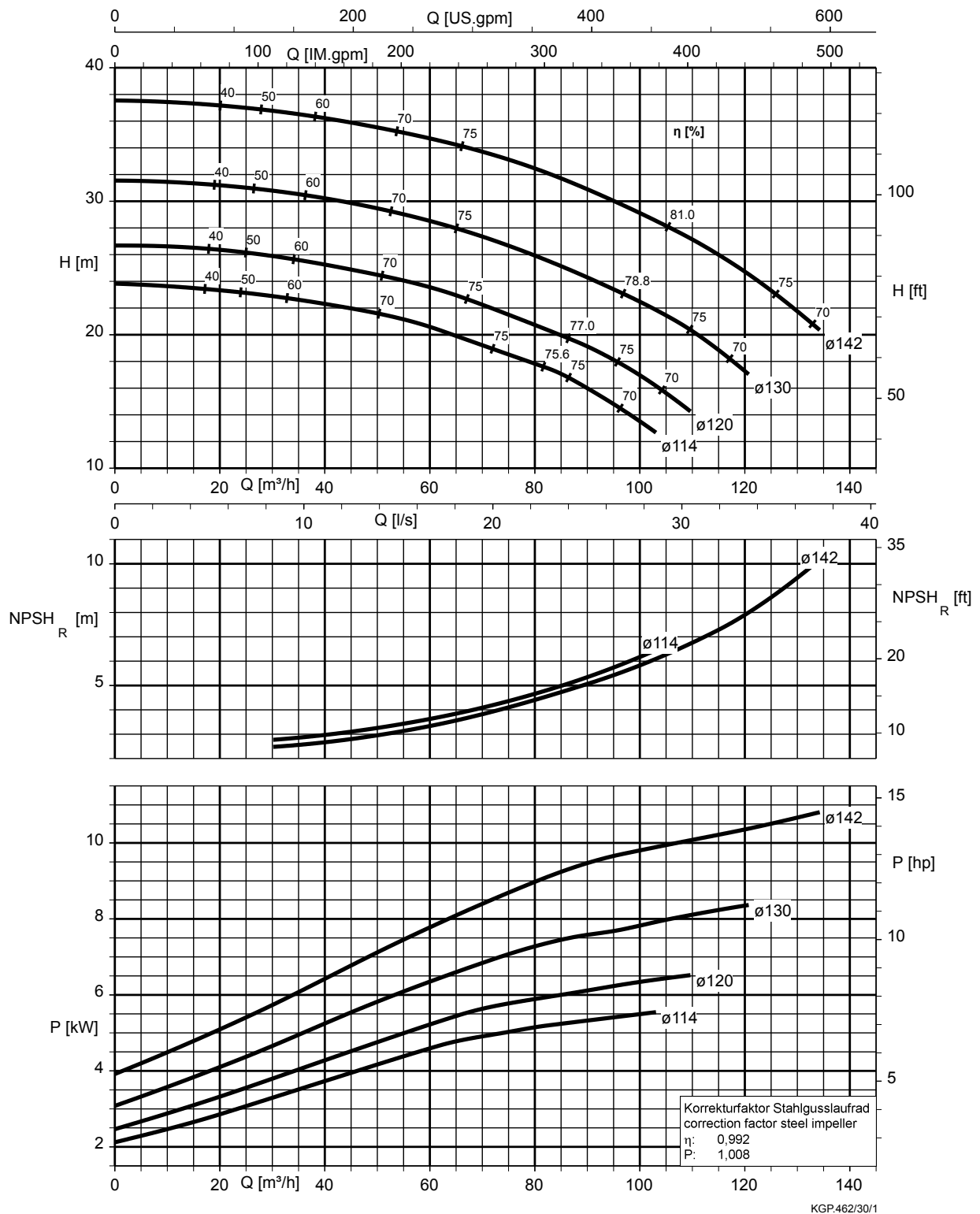
**MegaCPK 065-040-315, n = 3.500 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



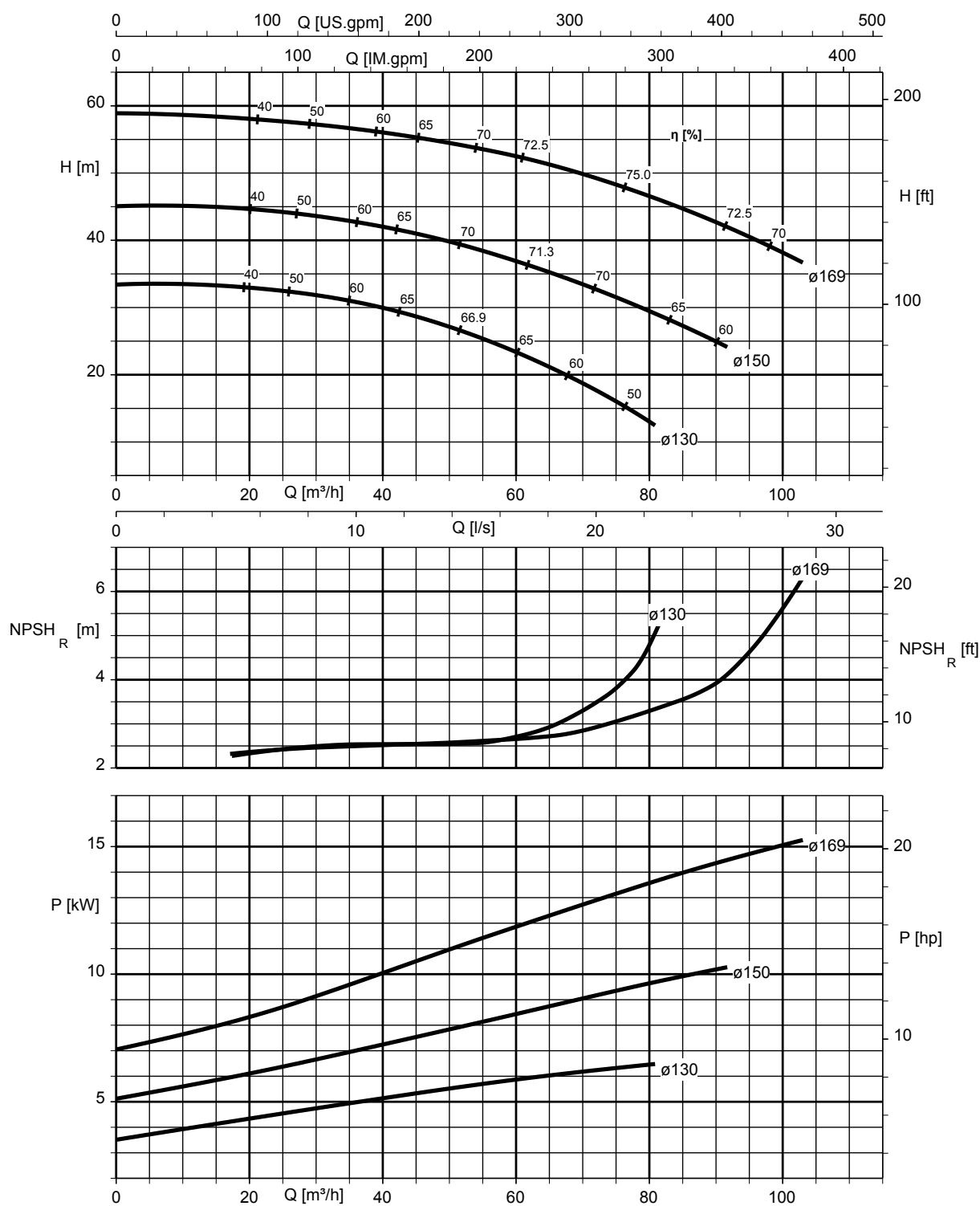
**MegaCPK 080-050-125, n = 3.500 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



**MegaCPK 080-050-160.1, n = 3500 rpm**

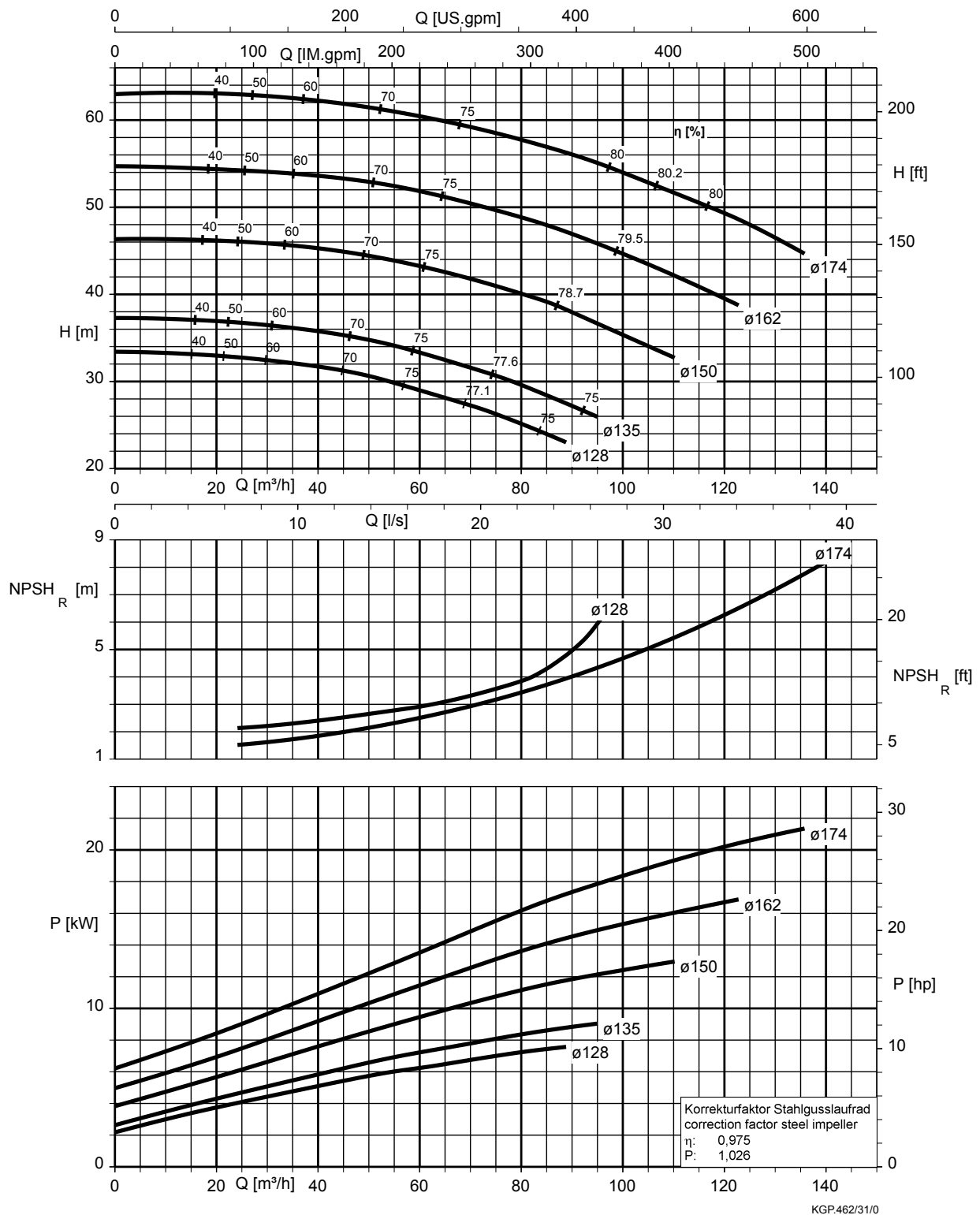
Magnochem, Magnochem-Bloc



KGP.462/08/0

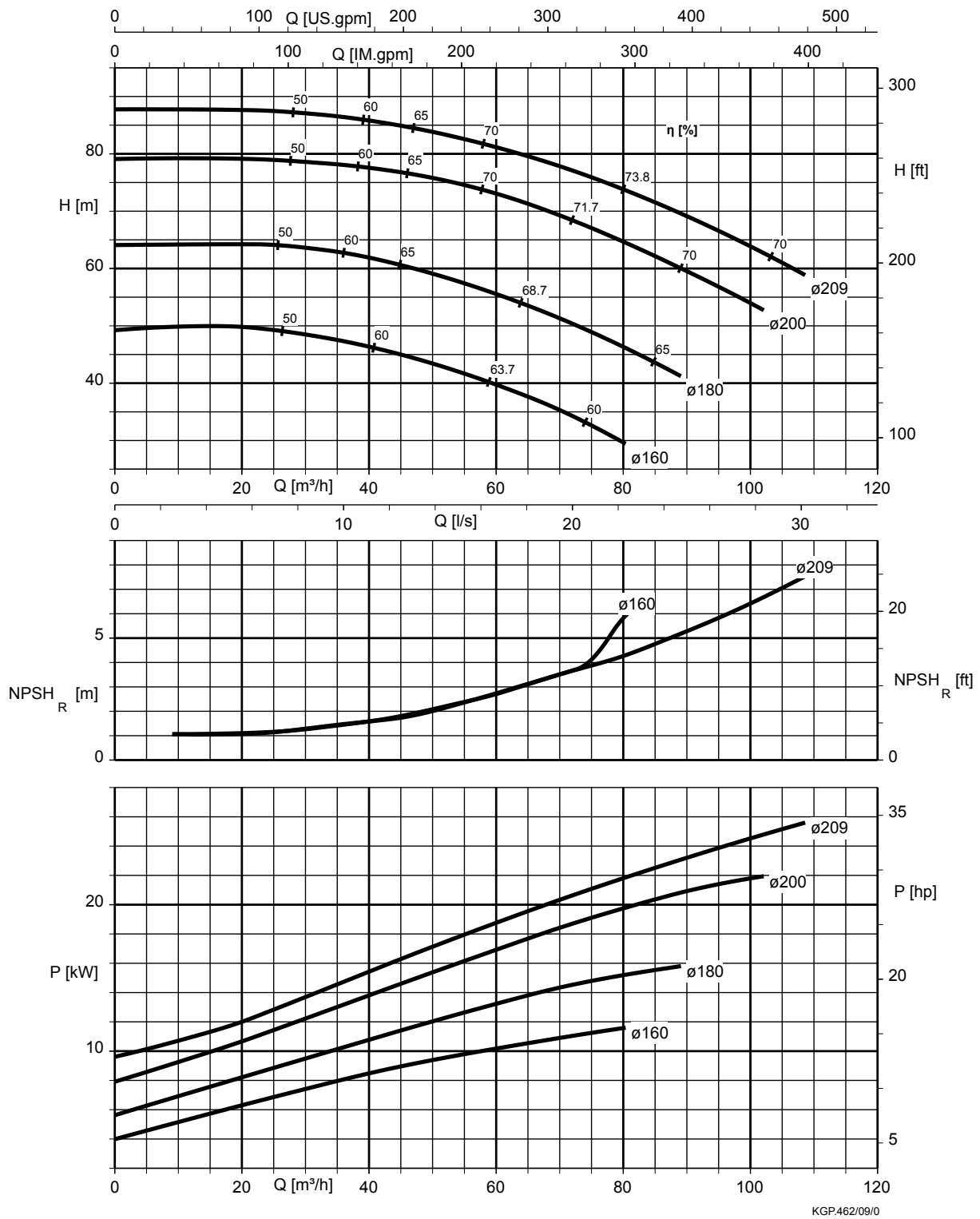
**MegaCPK 080-050-160, n = 3.500 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



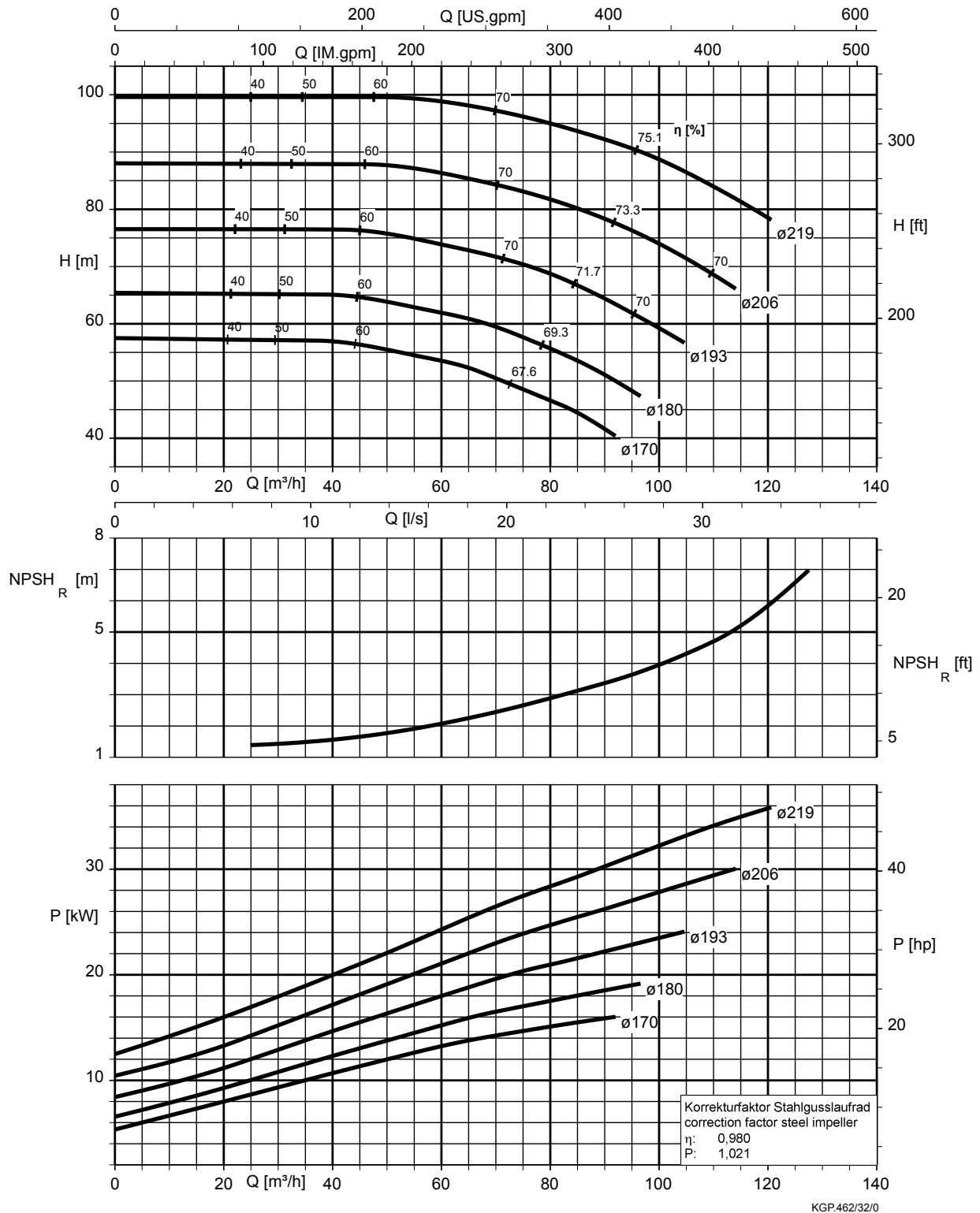
**MegaCPK 080-050-200.1, n = 3500 rpm**

Magnochem, Magnochem-Bloc



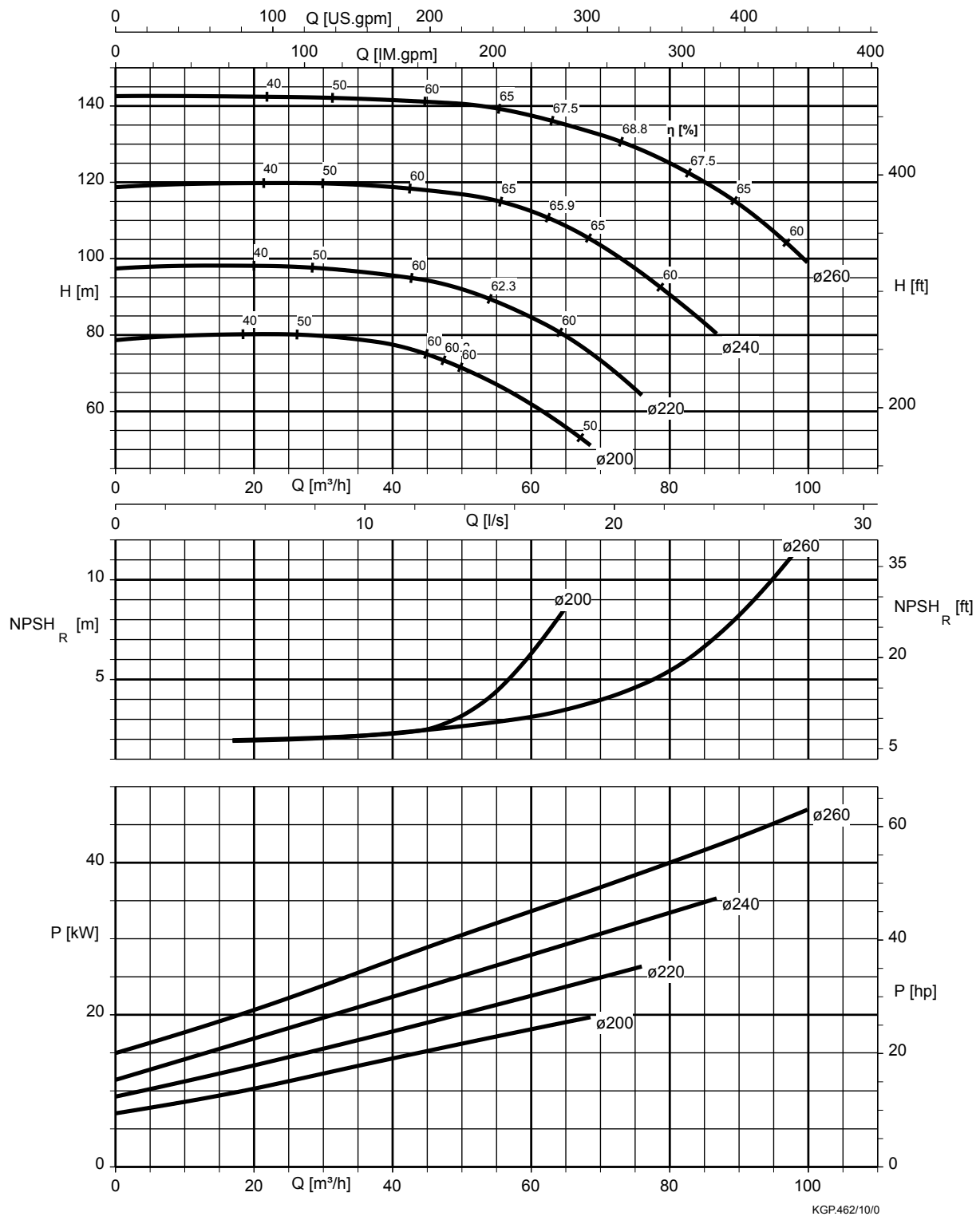
**MegaCPK 080-050-200, n = 3.500 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



**MegaCPK 080-050-250.1, n = 3500 rpm**

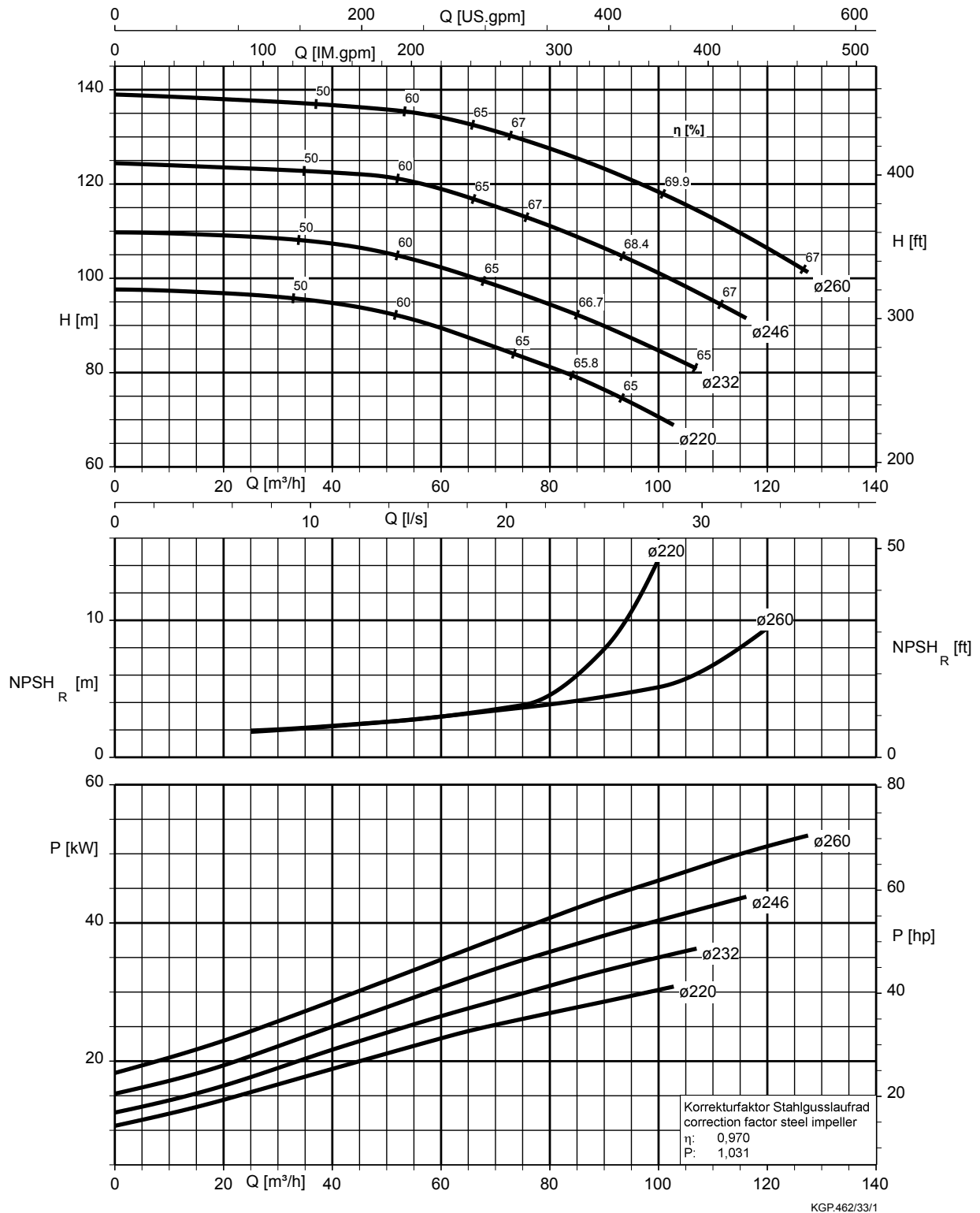
Magnochem, Magnochem-Bloc





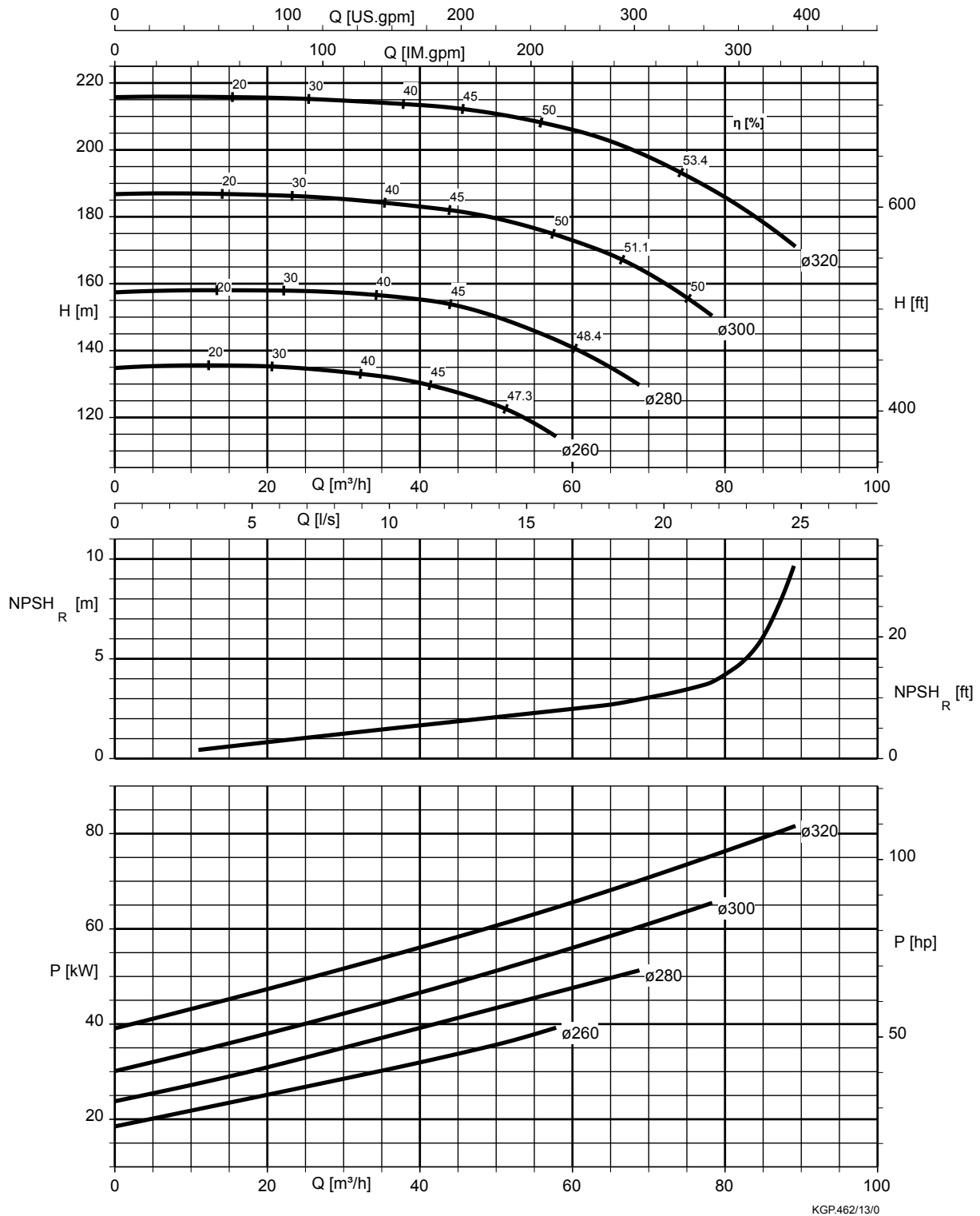
MegaCPK 080-050-250, n = 3.500 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



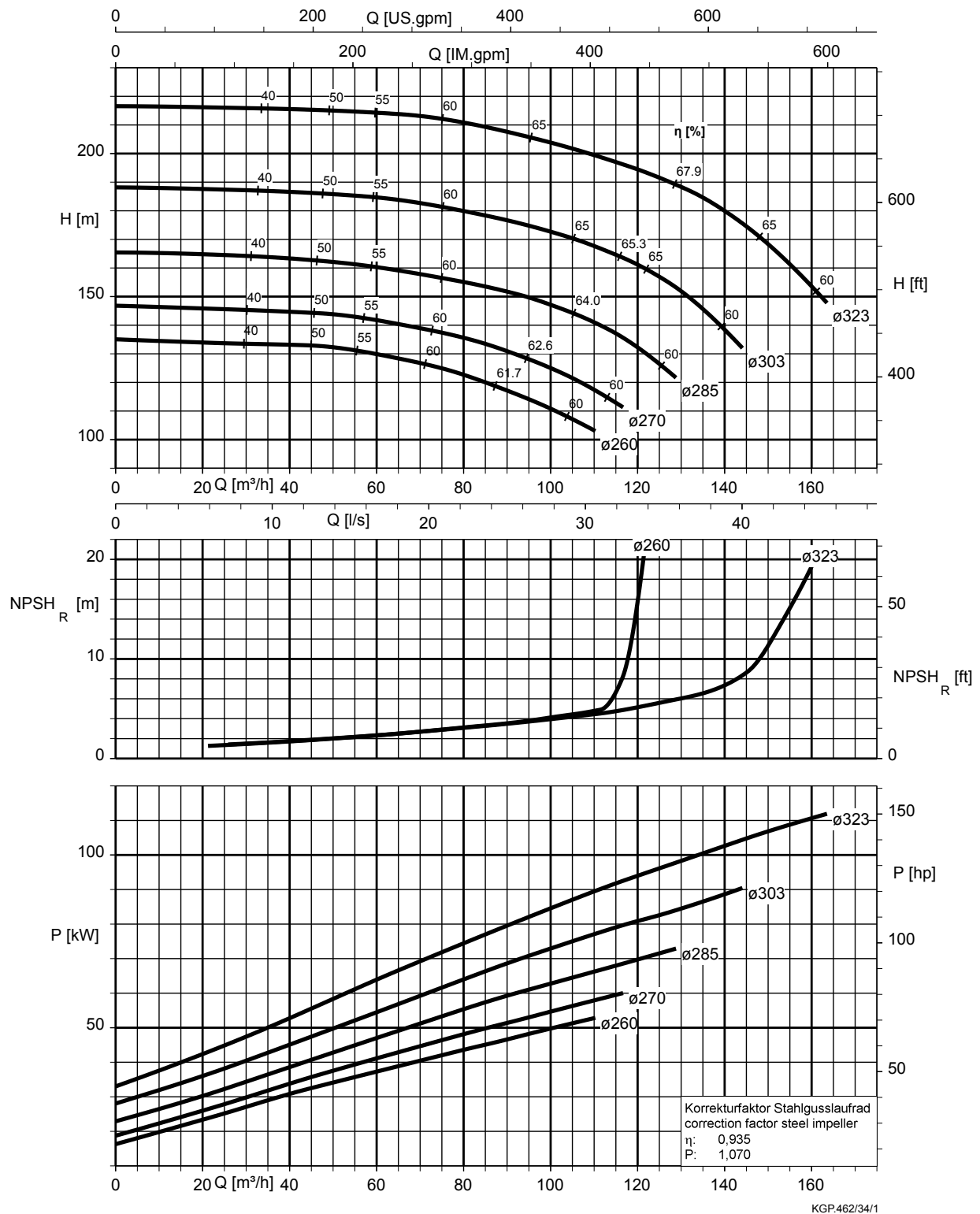
**MegaCPK 080-050-315.1, n = 3500 rpm**

HPK-L, Magnochem, Magnochem-Bloc



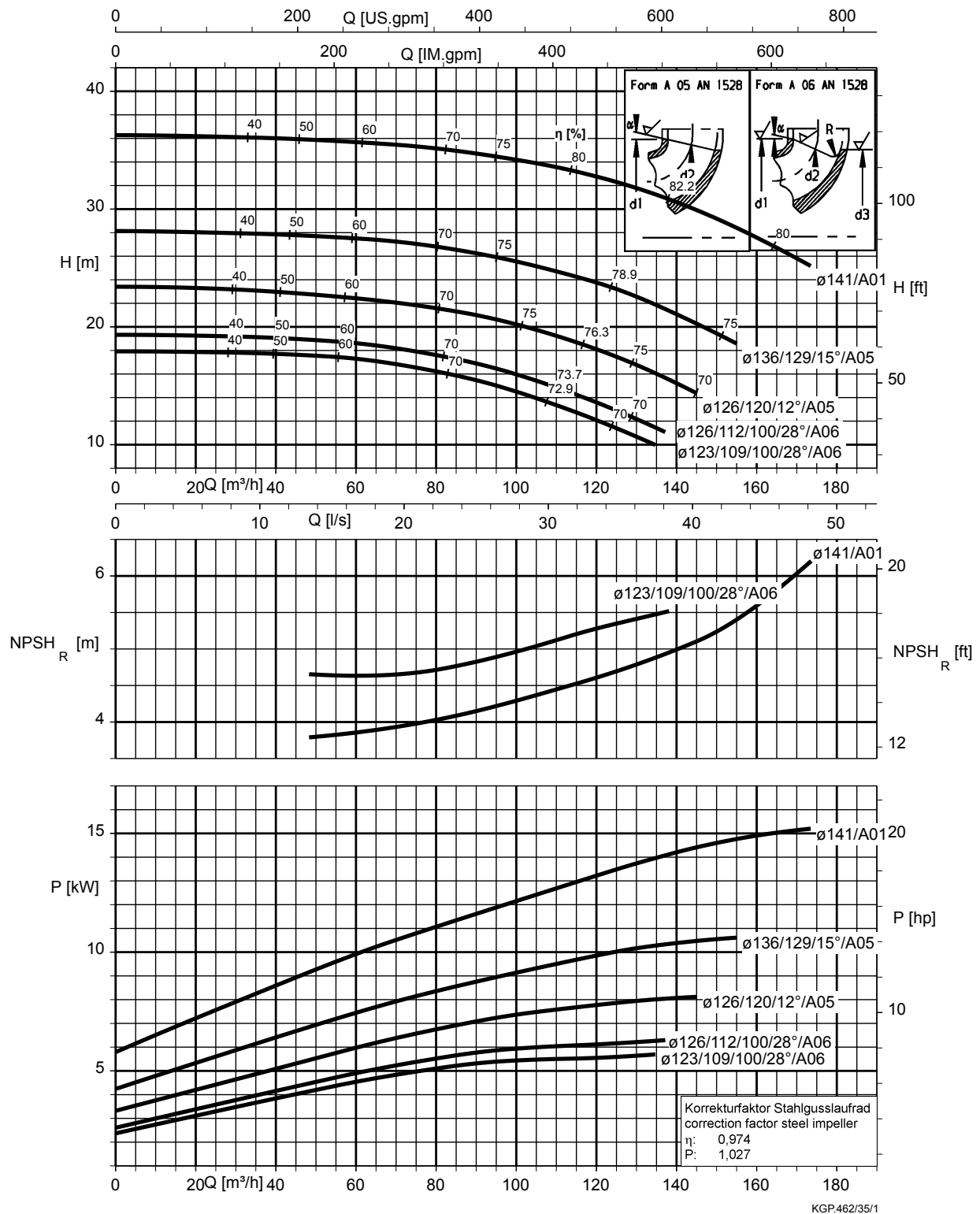
**MegaCPK 080-050-315, n = 3.500 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



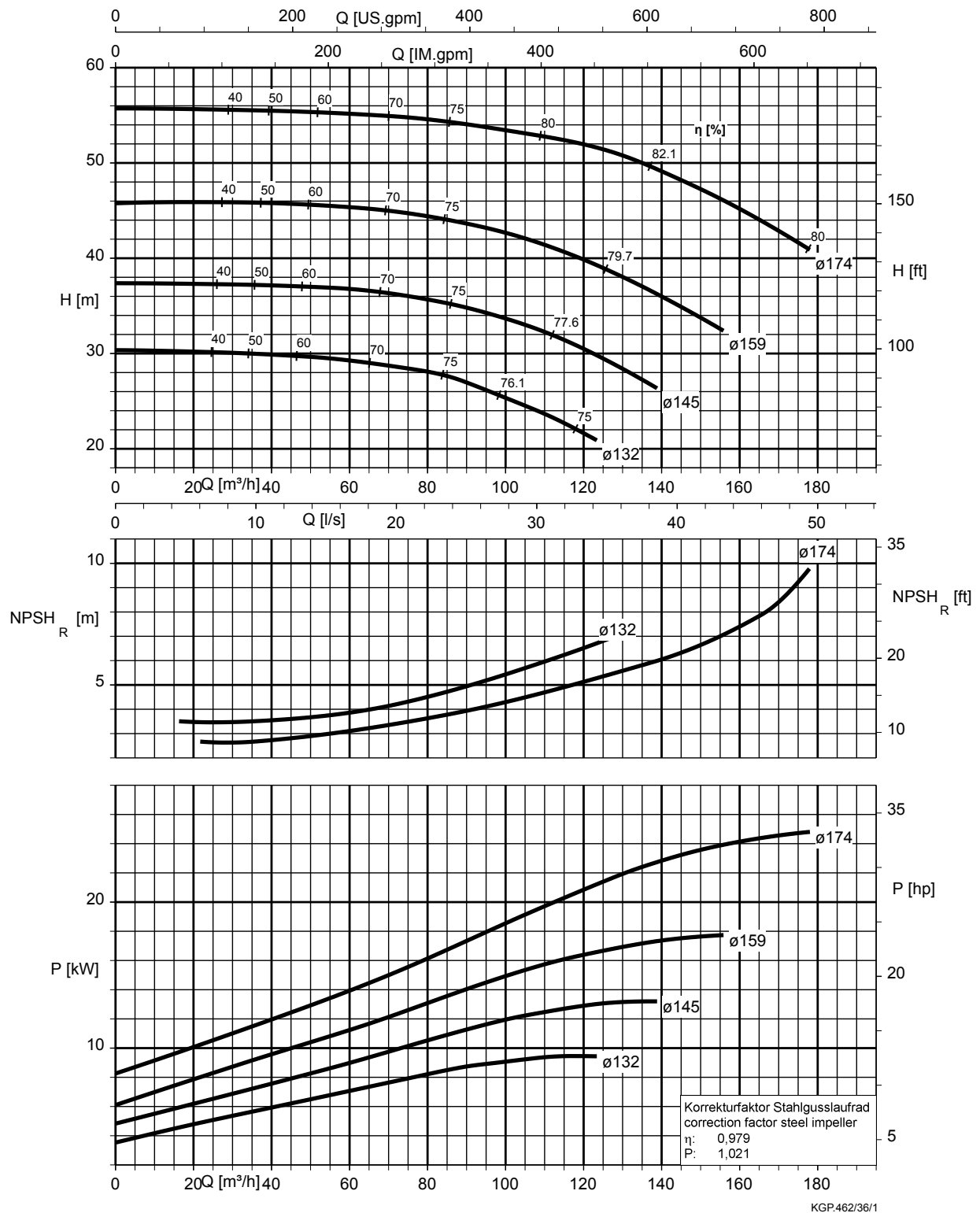
**MegaCPK 100-065-125, n = 3.500 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



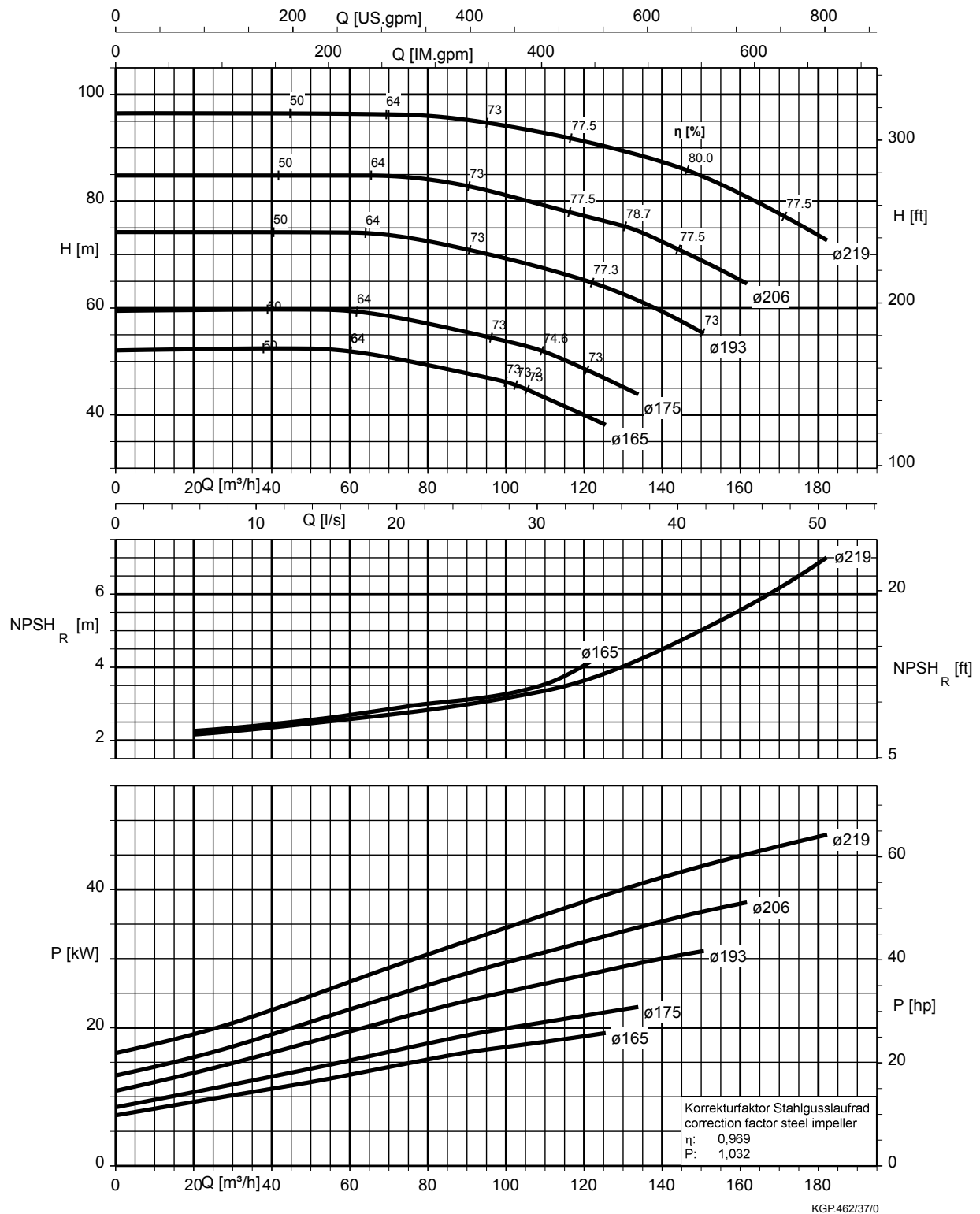
**MegaCPK 100-065-160, n = 3.500 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



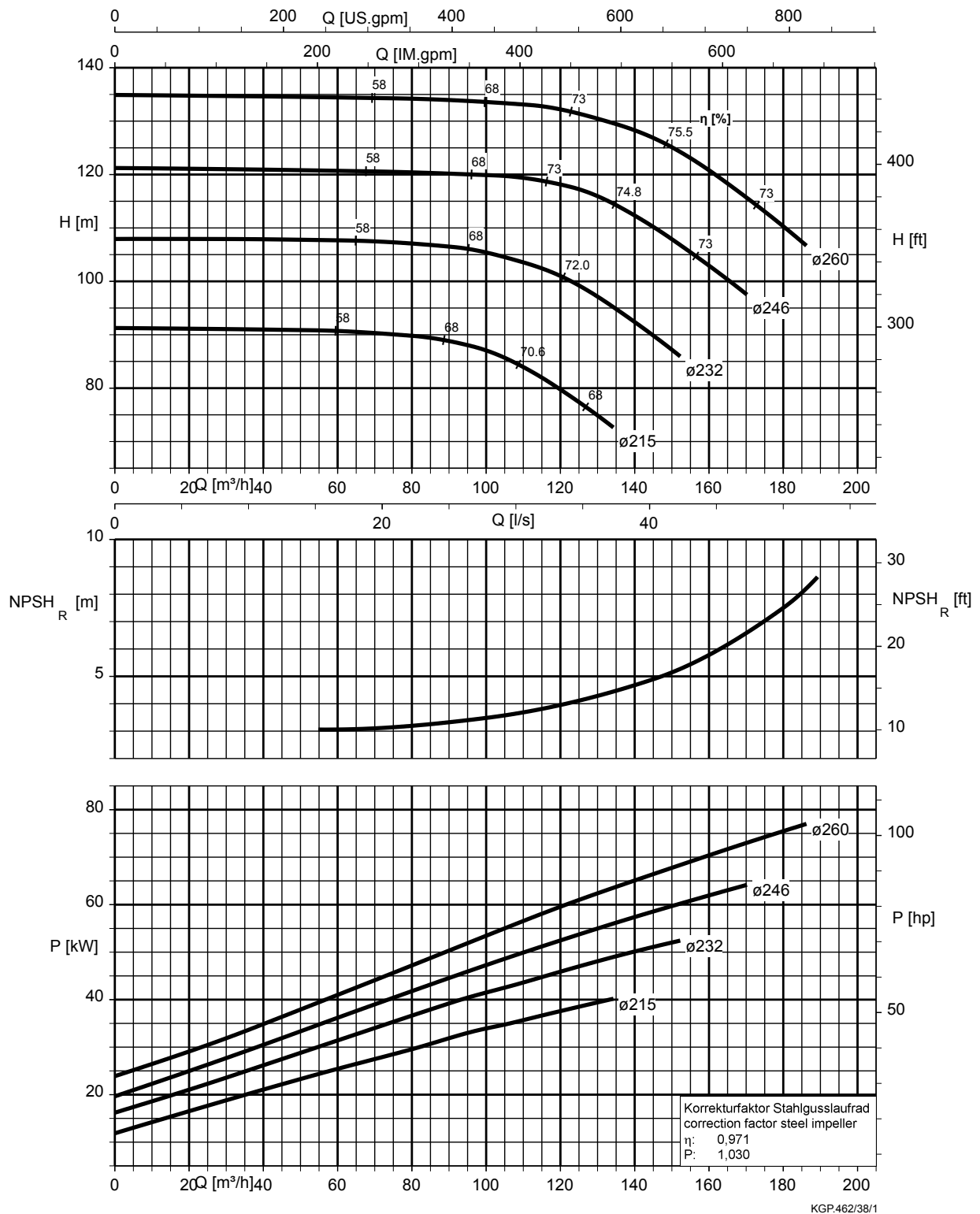
**MegaCPK 100-065-200, n = 3.500 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



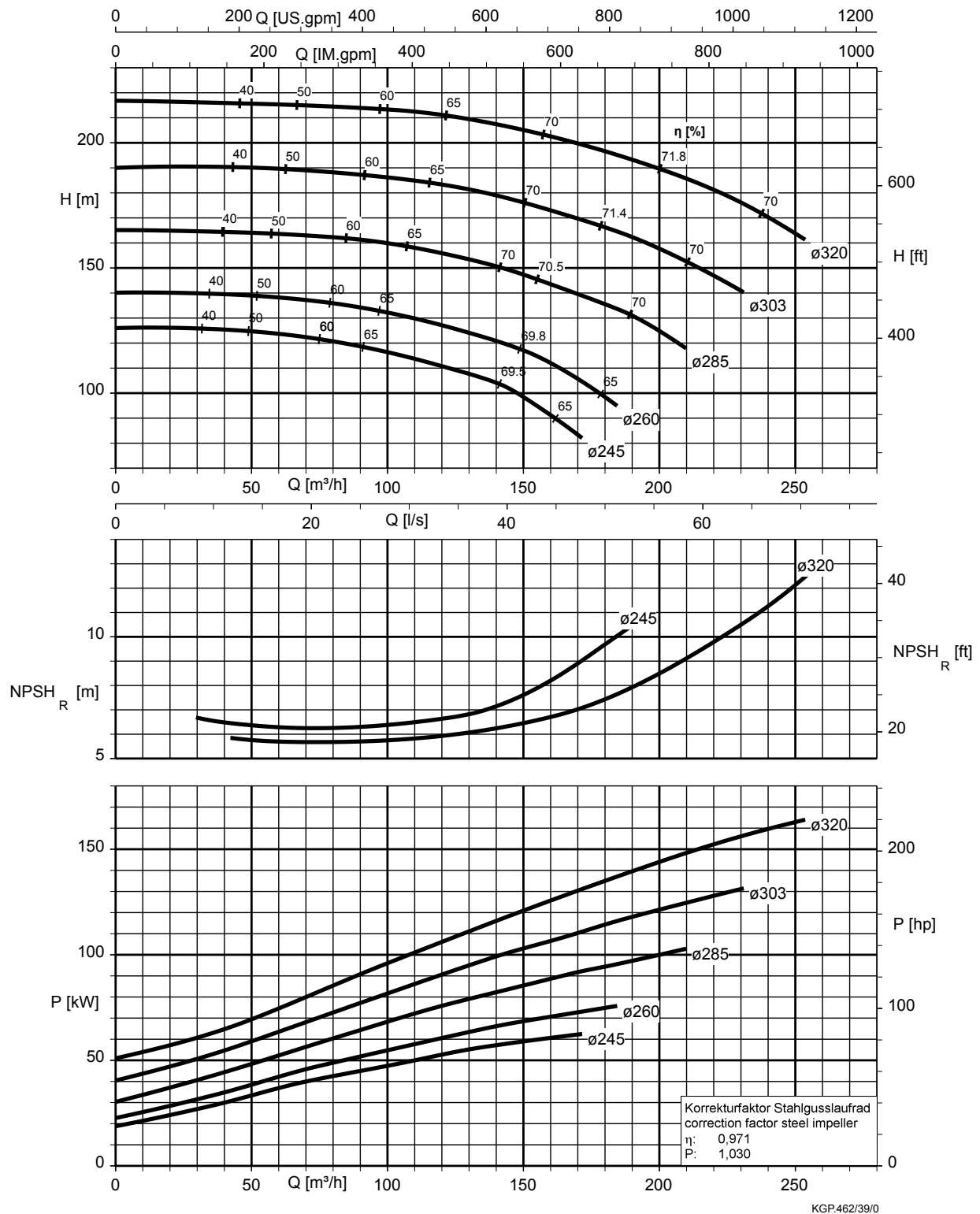
**MegaCPK 100-065-250, n = 3.500 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



**MegaCPK 100-065-315, n = 3.500 rpm**

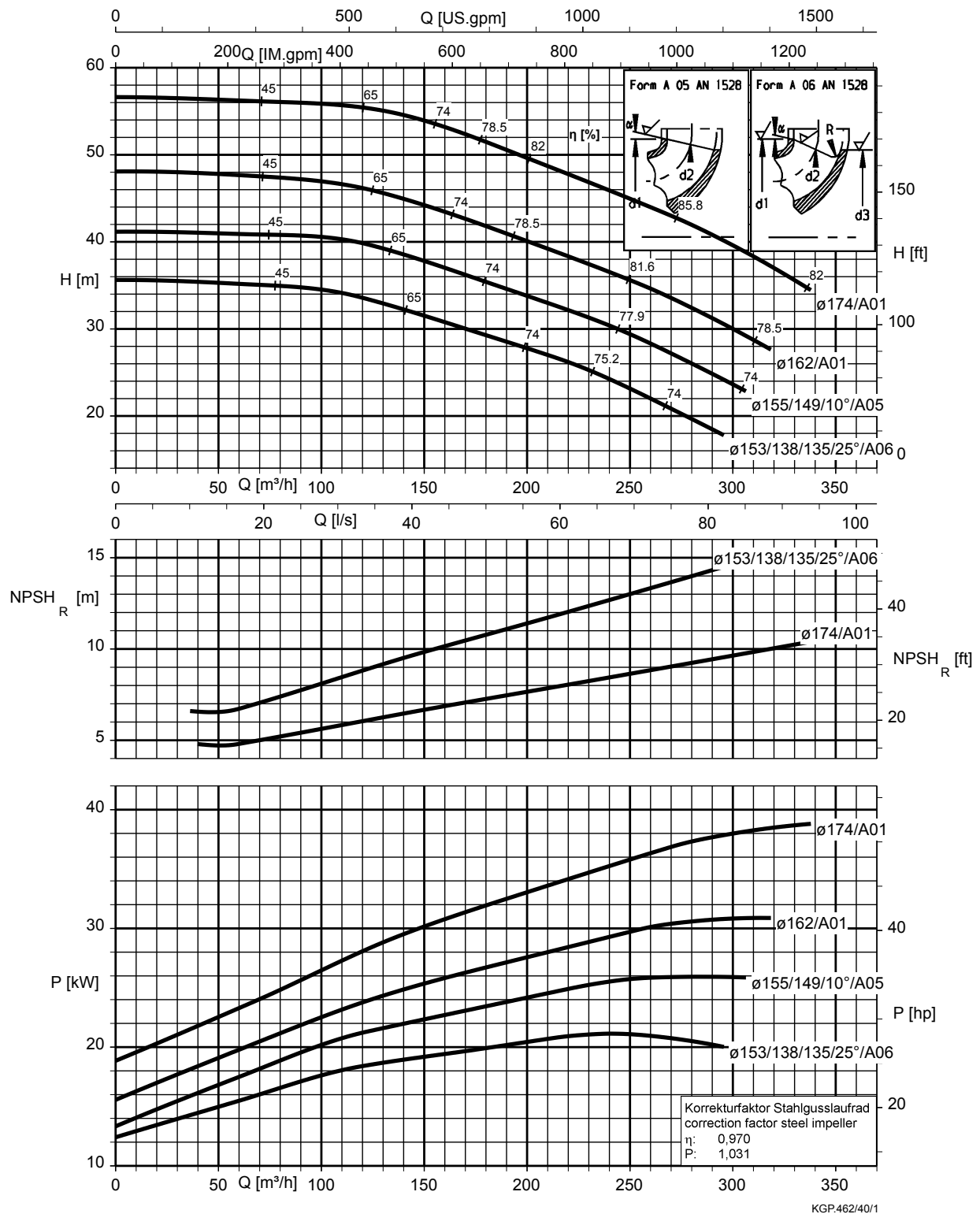
HPK-L, Magnochem, Magnochem-Bloc, Meganorm





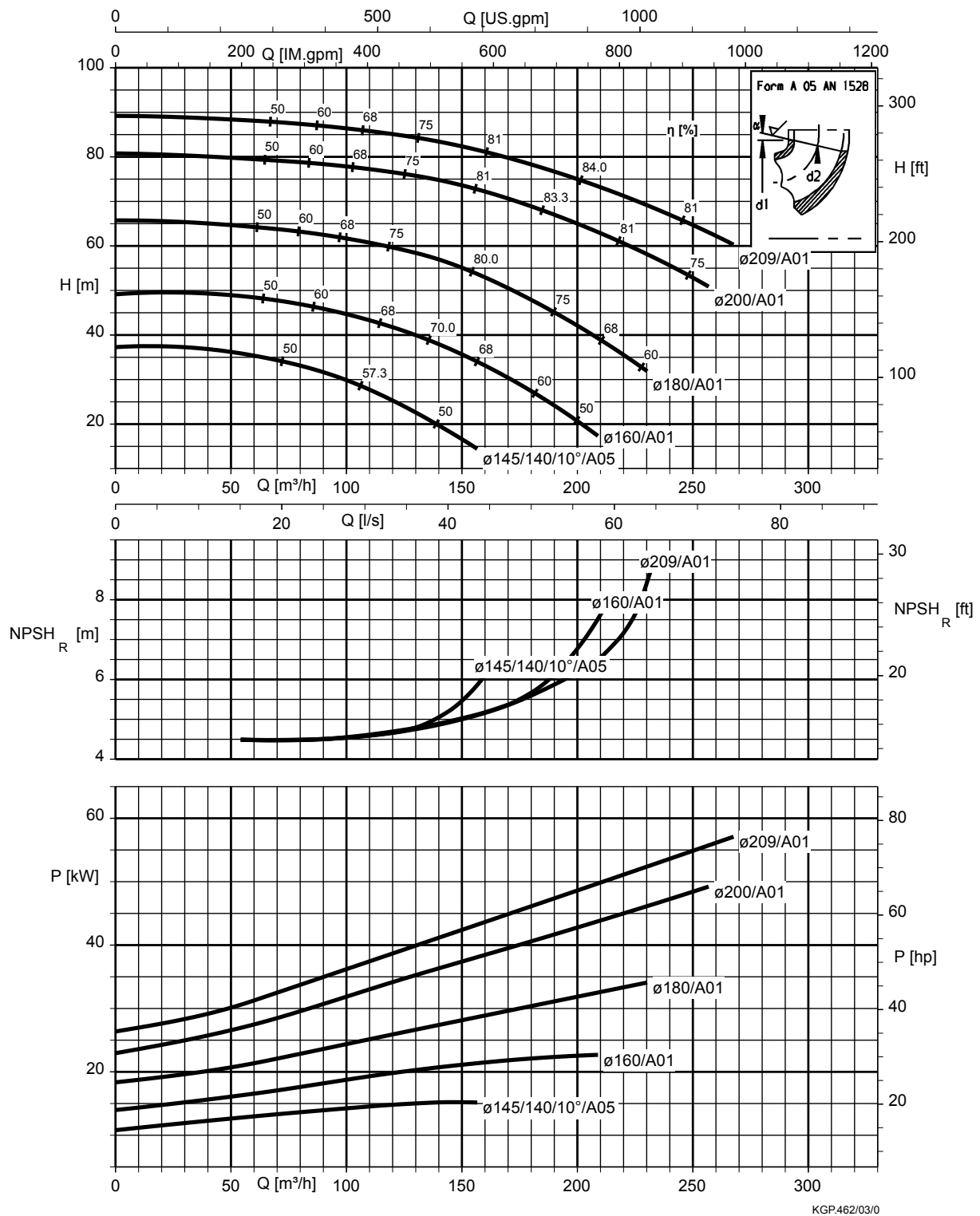
**MegaCPK 125-080-160, n = 3.500 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



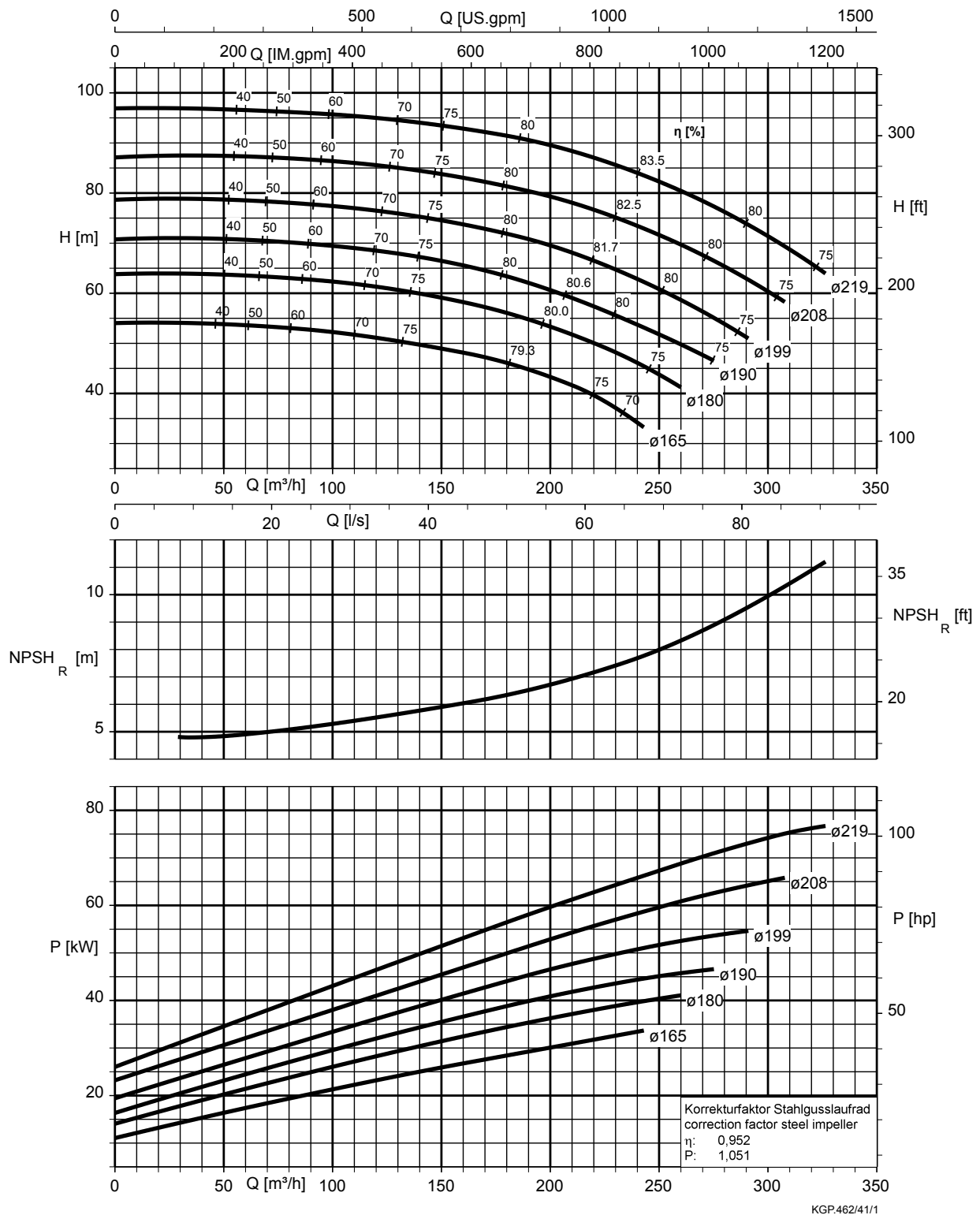
**MegaCPK 125-080-200.1, n = 3500 rpm**

Magnochem, Magnochem-Bloc



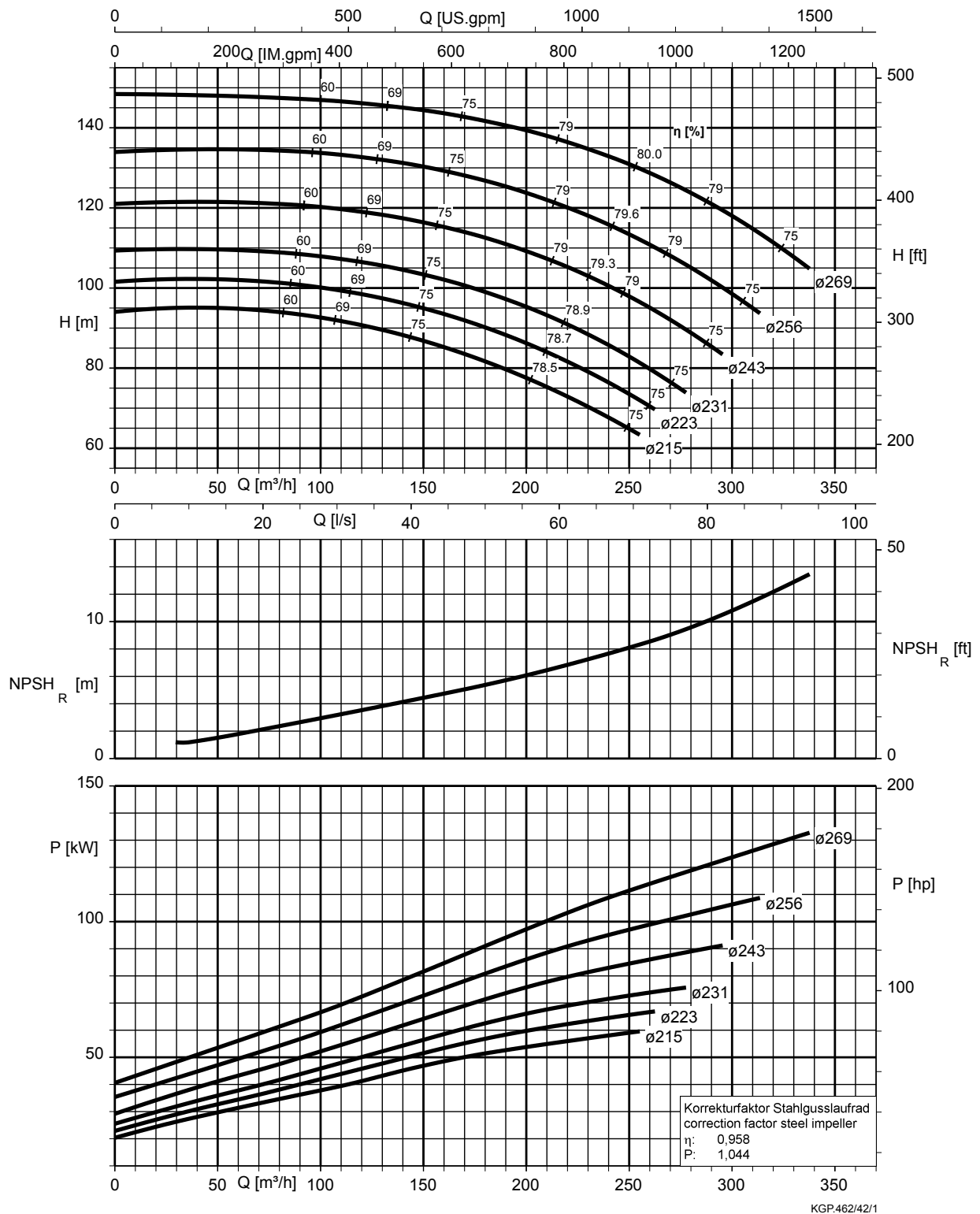
**MegaCPK 125-080-200, n = 3.500 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



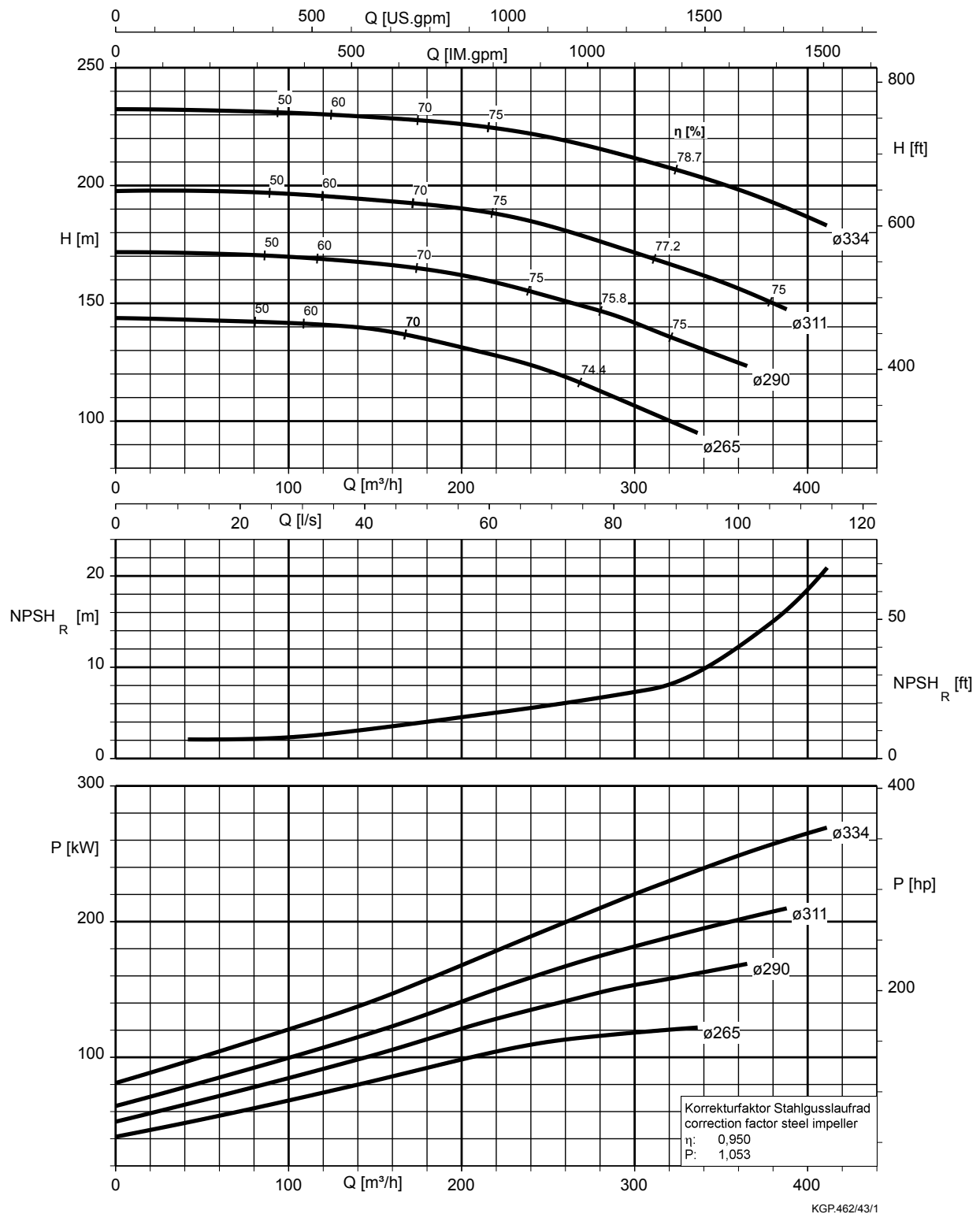
**MegaCPK 125-080-250, n = 3.500 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



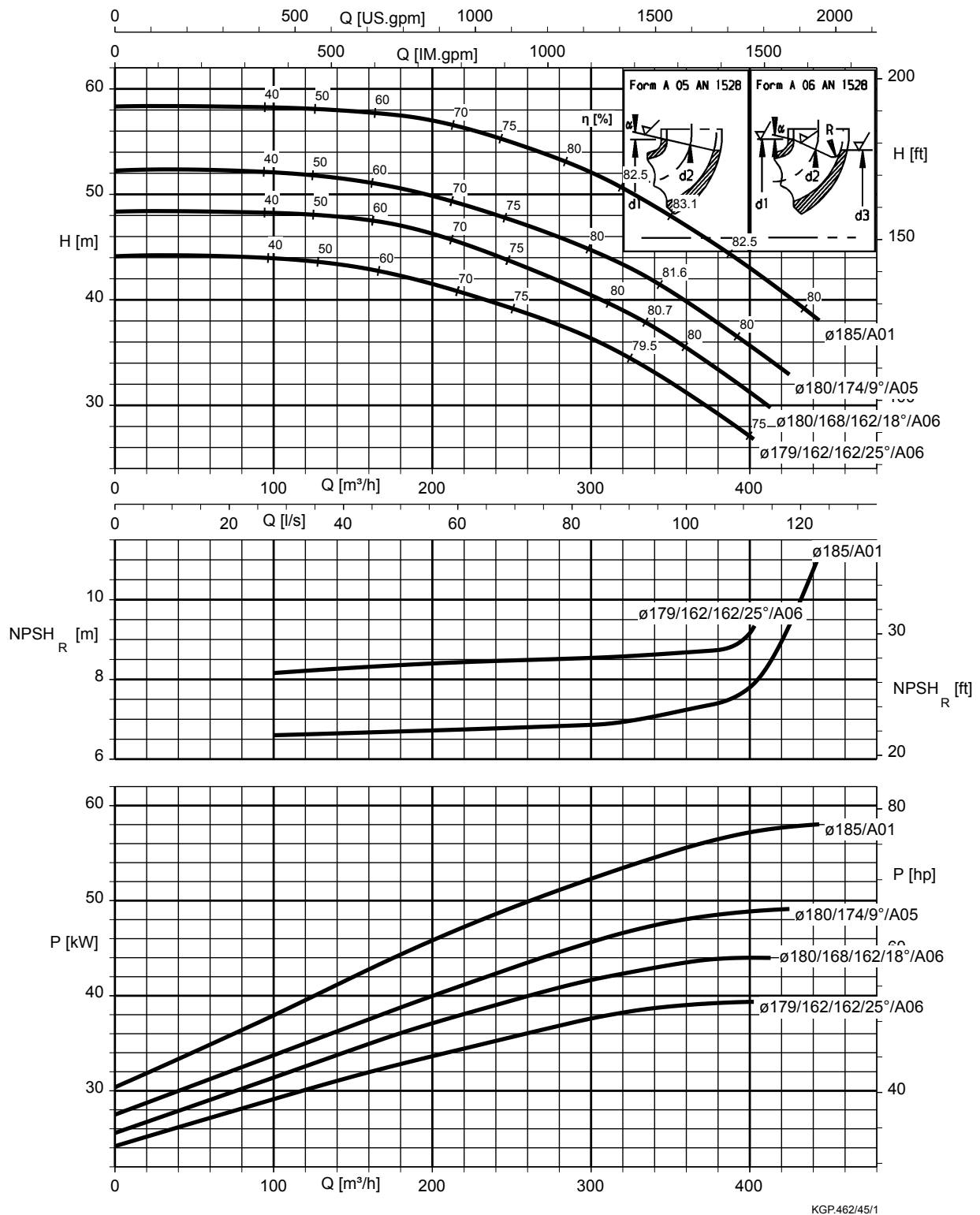
**MegaCPK 125-080-315, n = 3.500 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



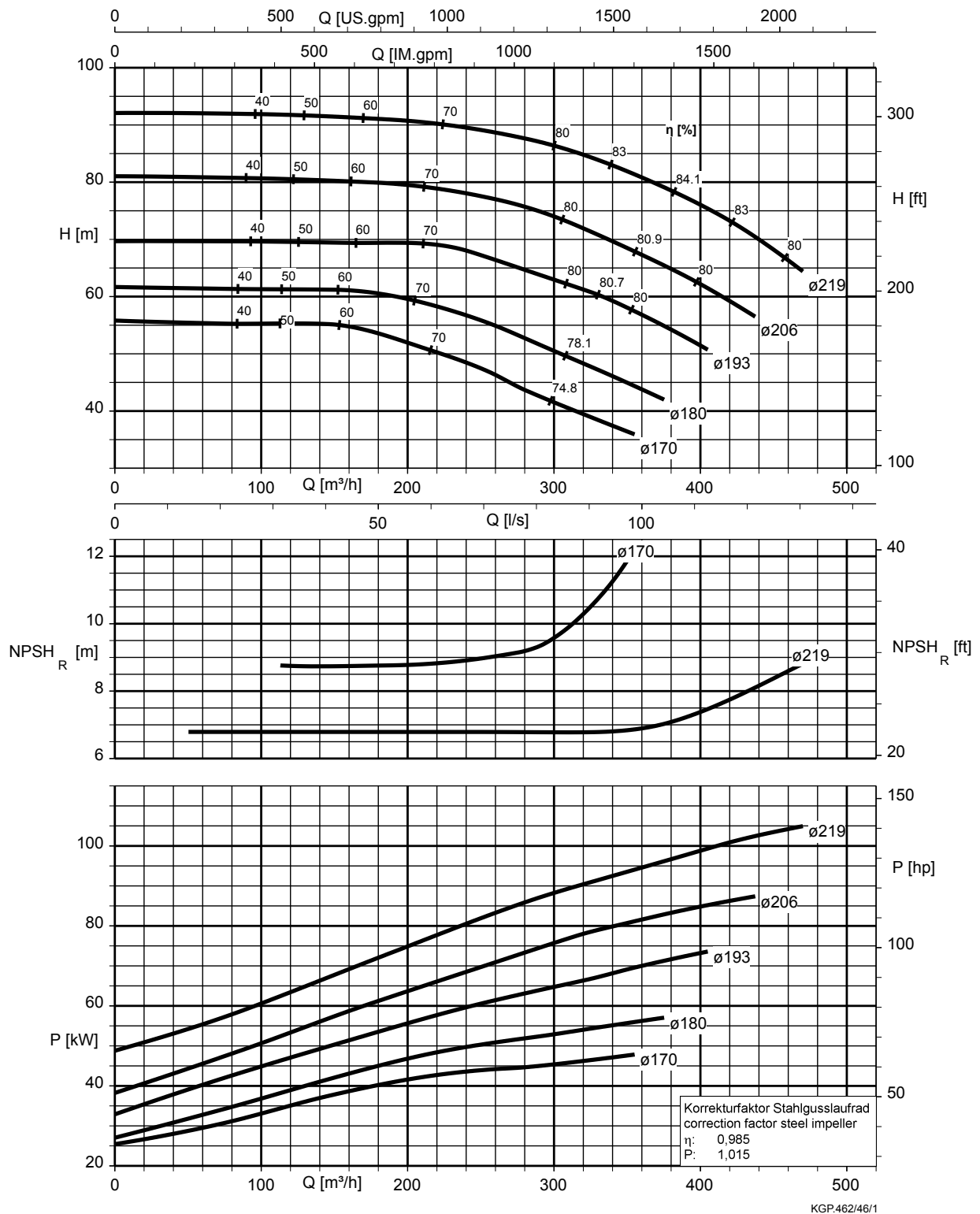
**MegaCPK 125-100-160, n = 3500 r.p.m.**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



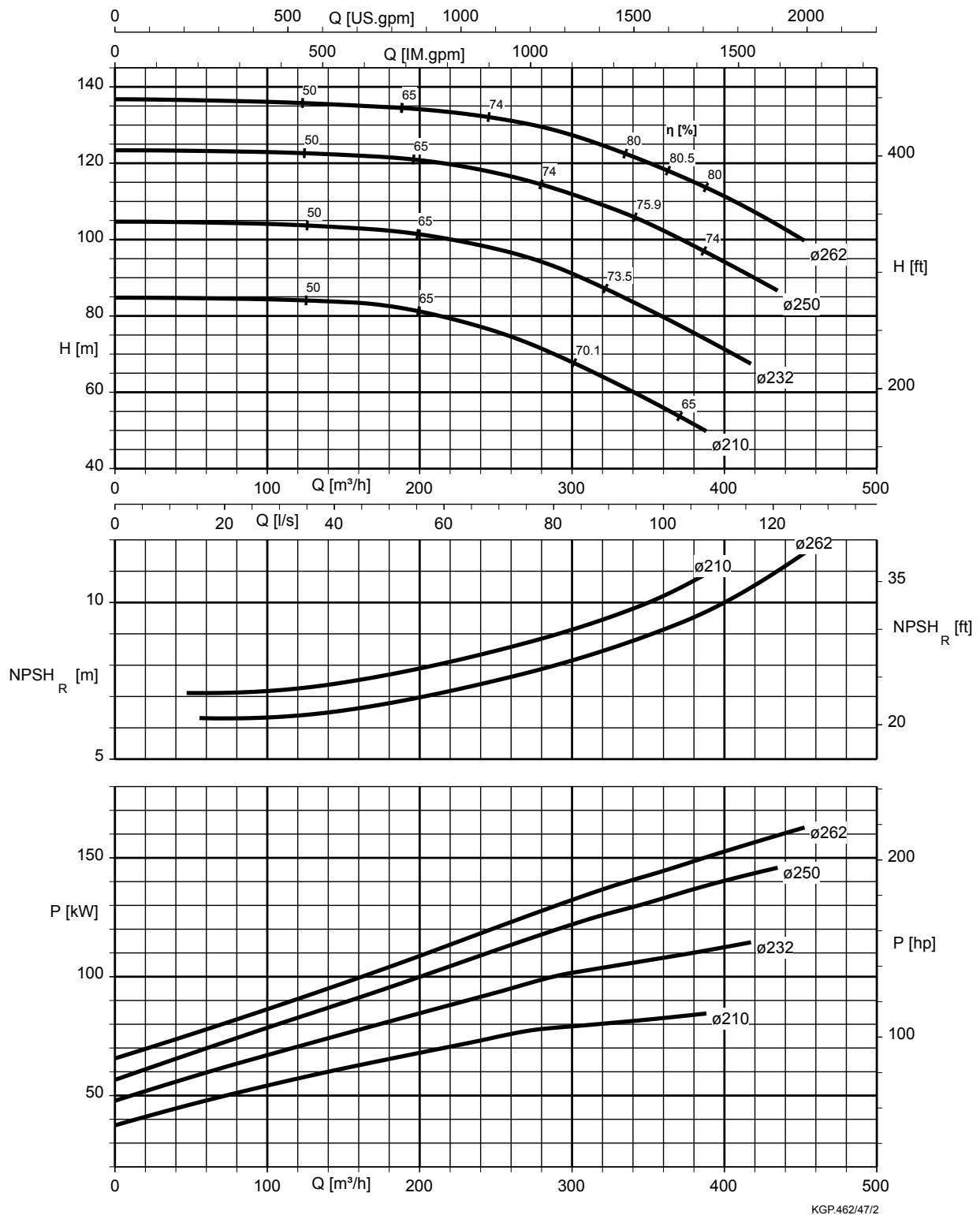
**MegaCPK 125-100-200, n = 3500 r.p.m.**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



**MegaCPK 125-100-250, n = 3500 r.p.m.**

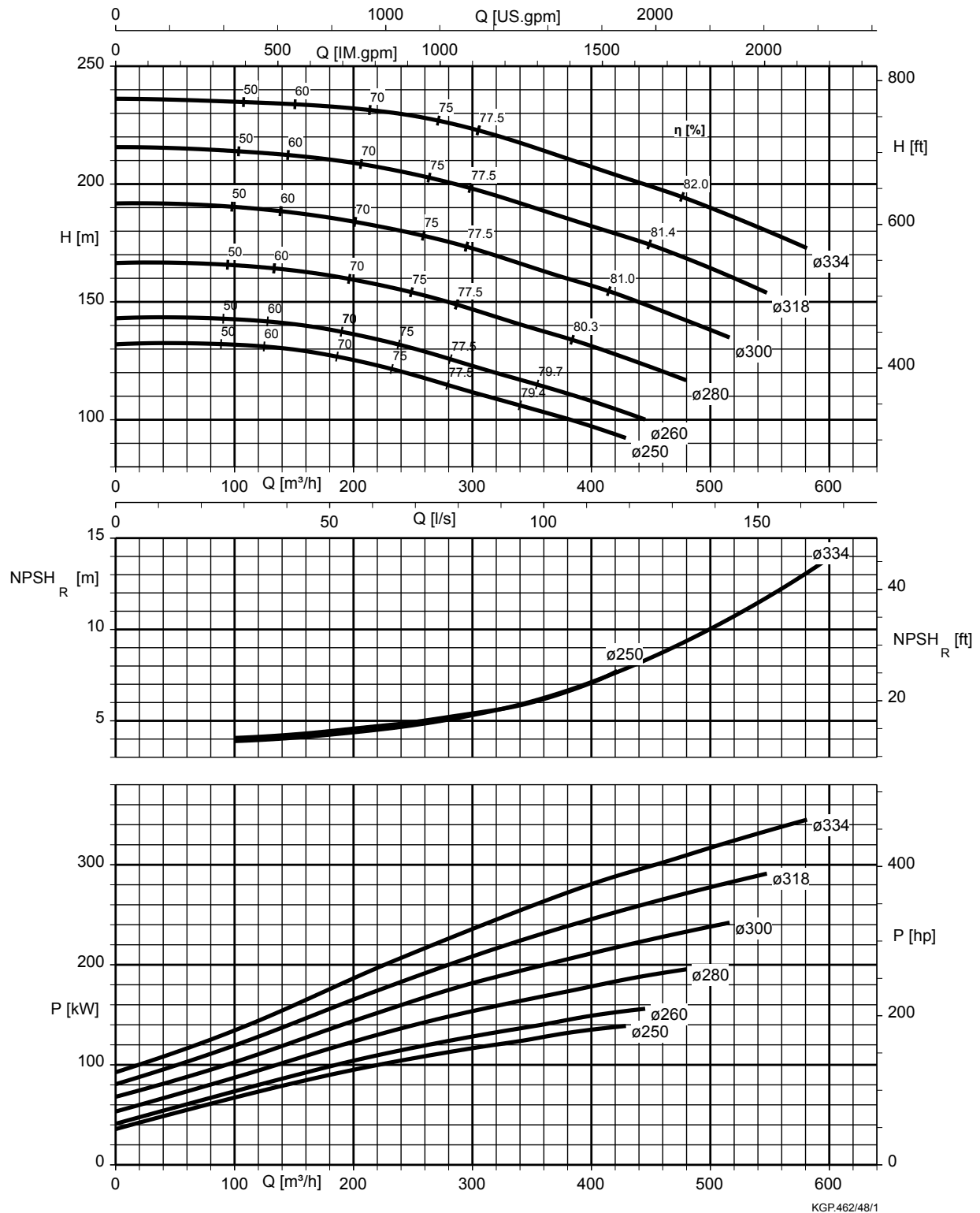
HPK-L, Magnochem, Magnochem-Bloc, Meganorm





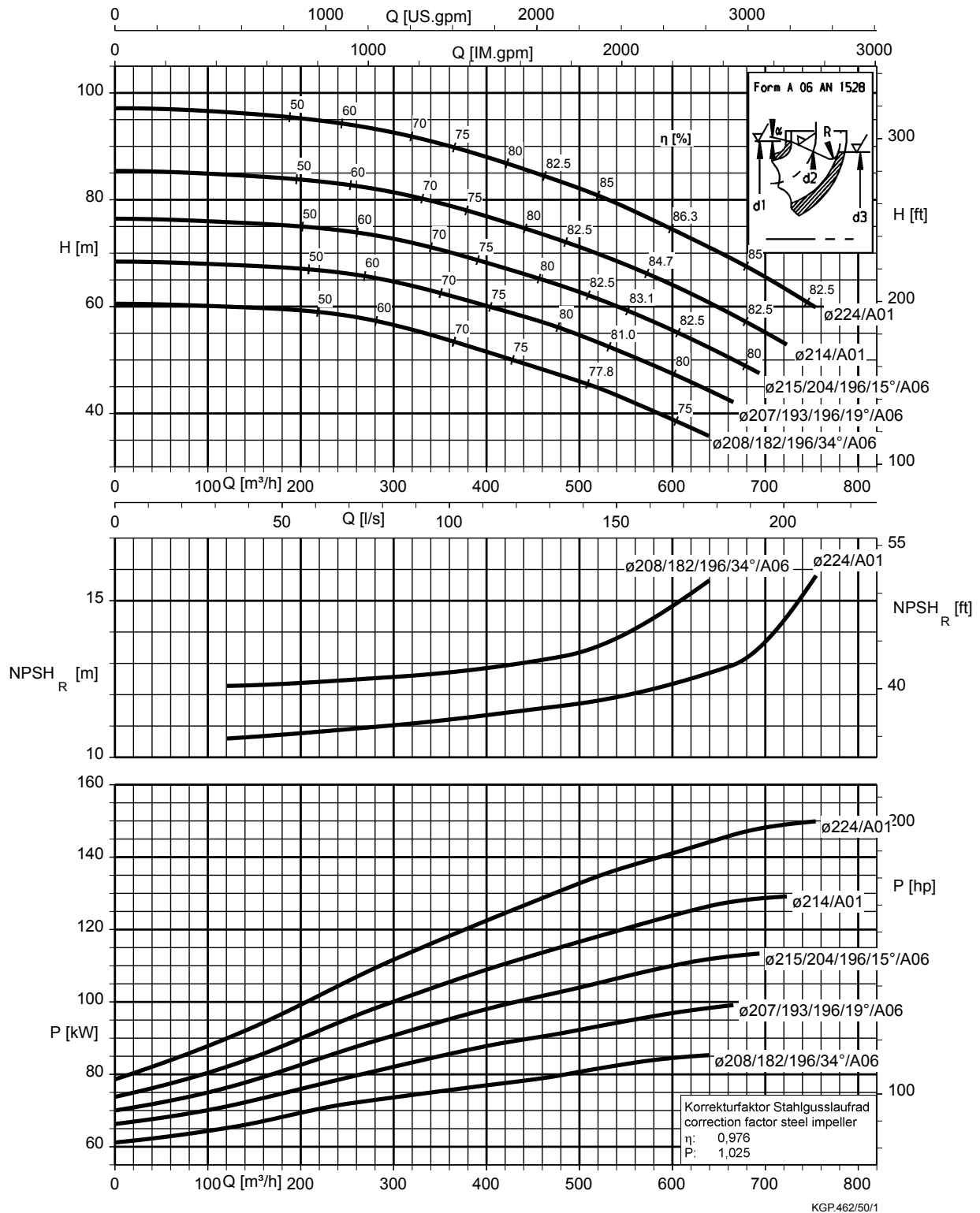
**MegaCPK 125-100-315, n = 3500 r.p.m.**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



**MegaCPK 150-125-200, n = 3500 r.p.m.**

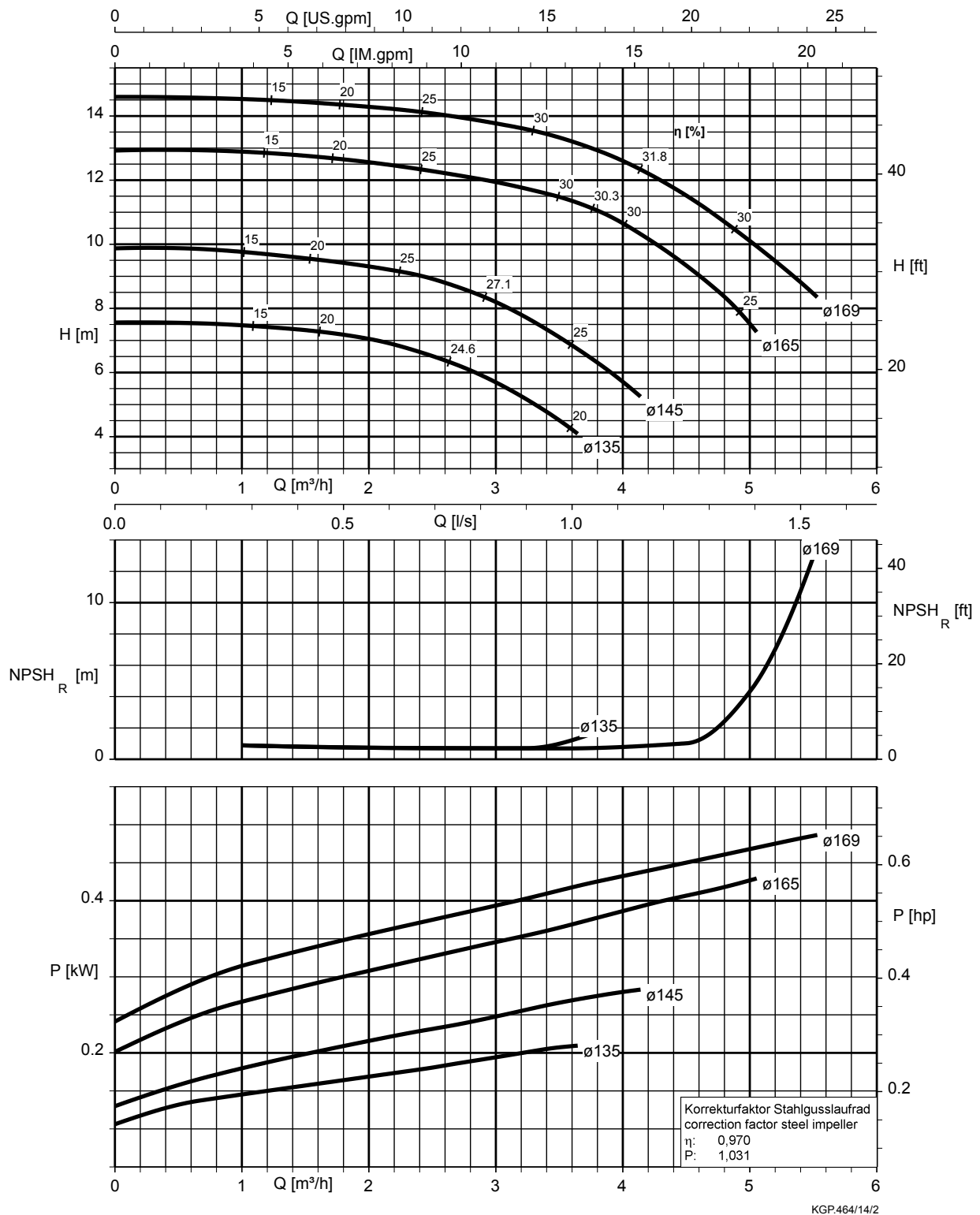
HPK-L, Magnochem, Magnochem-Bloc, Meganorm



$n = 1750 \text{ rpm}$

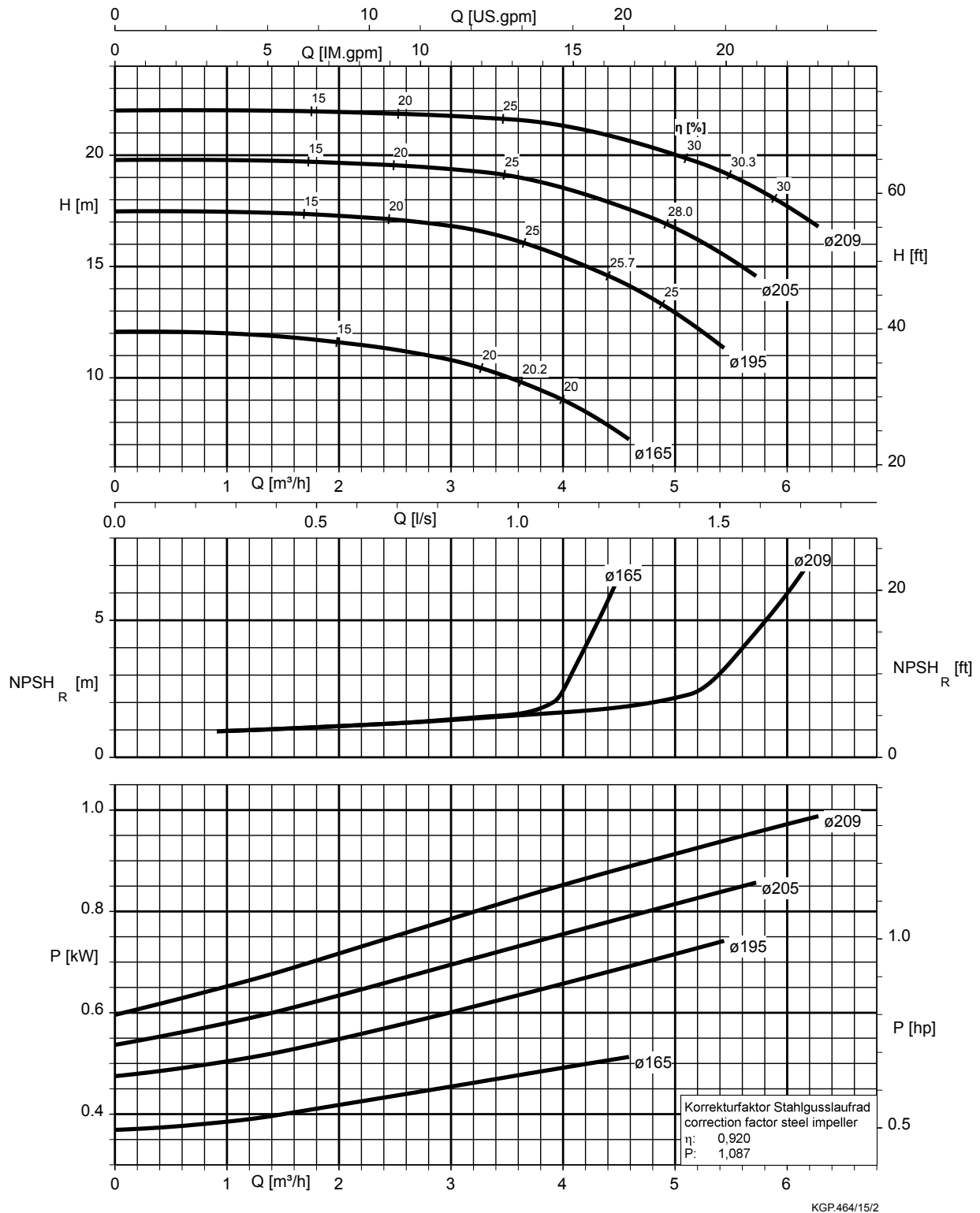
**MegaCPK 040-025-160,  $n = 1.750 \text{ rpm}$**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



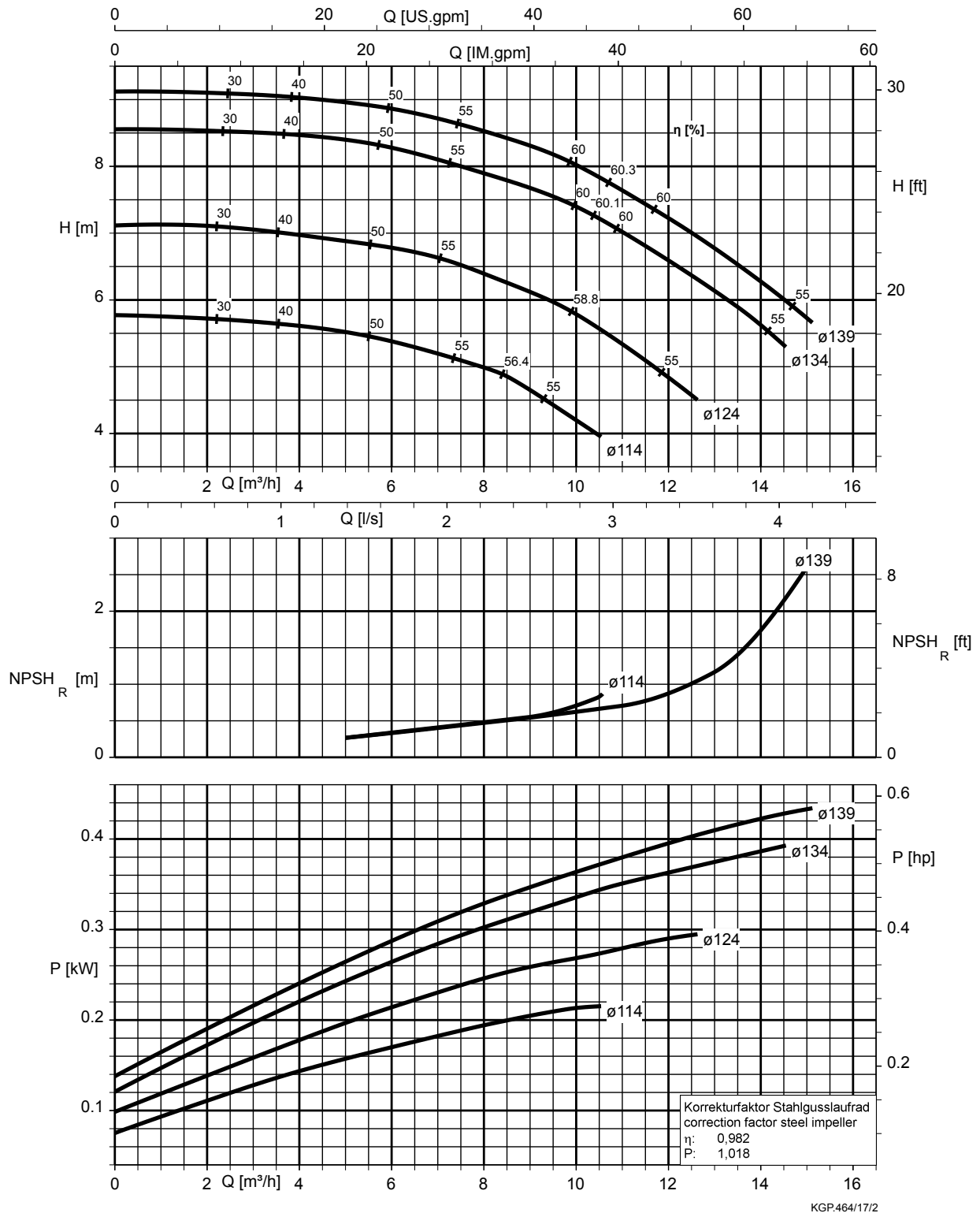
**MegaCPK 040-025-200, n = 1.750 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



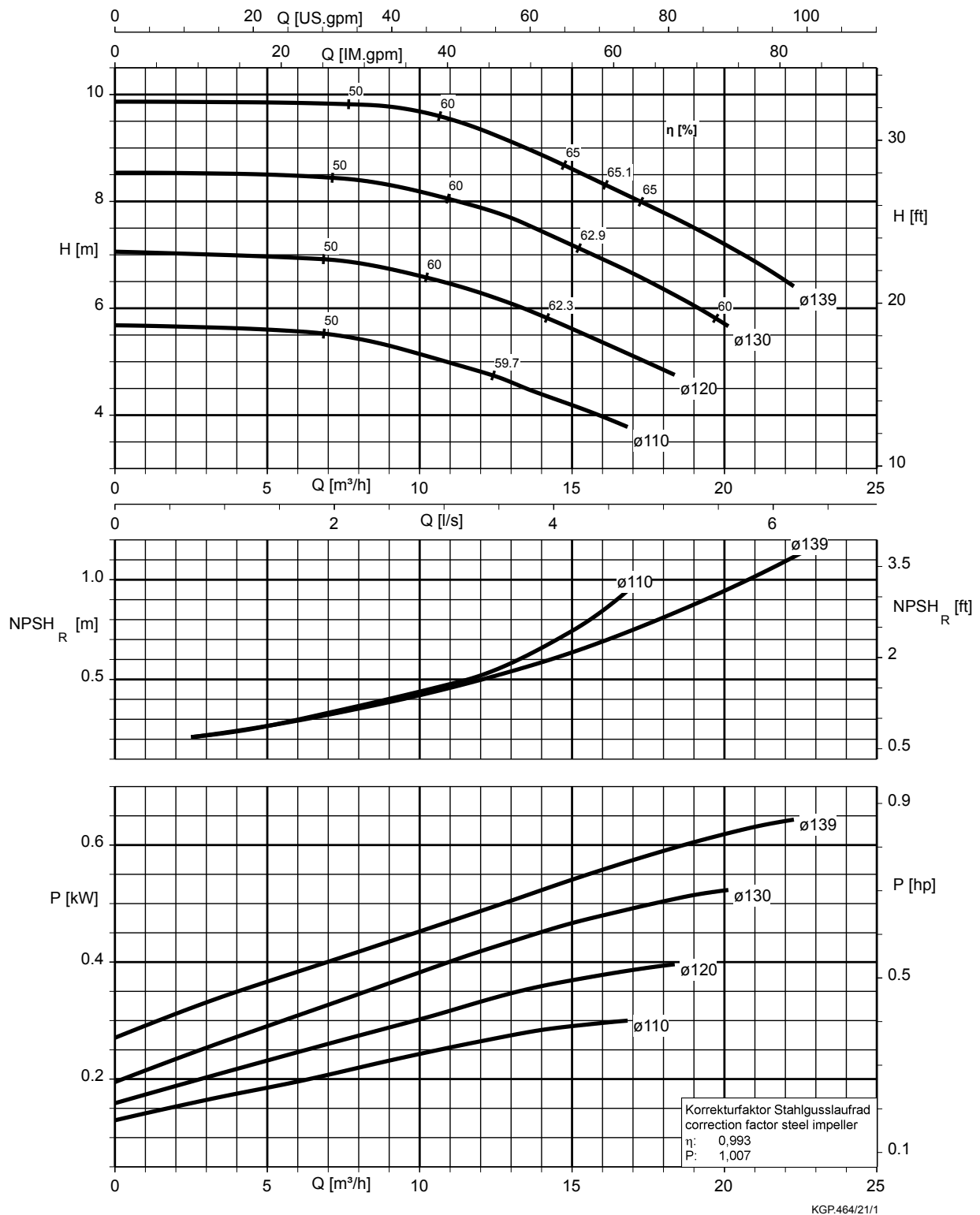
**MegaCPK 050-032-125.1, n = 1.750 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



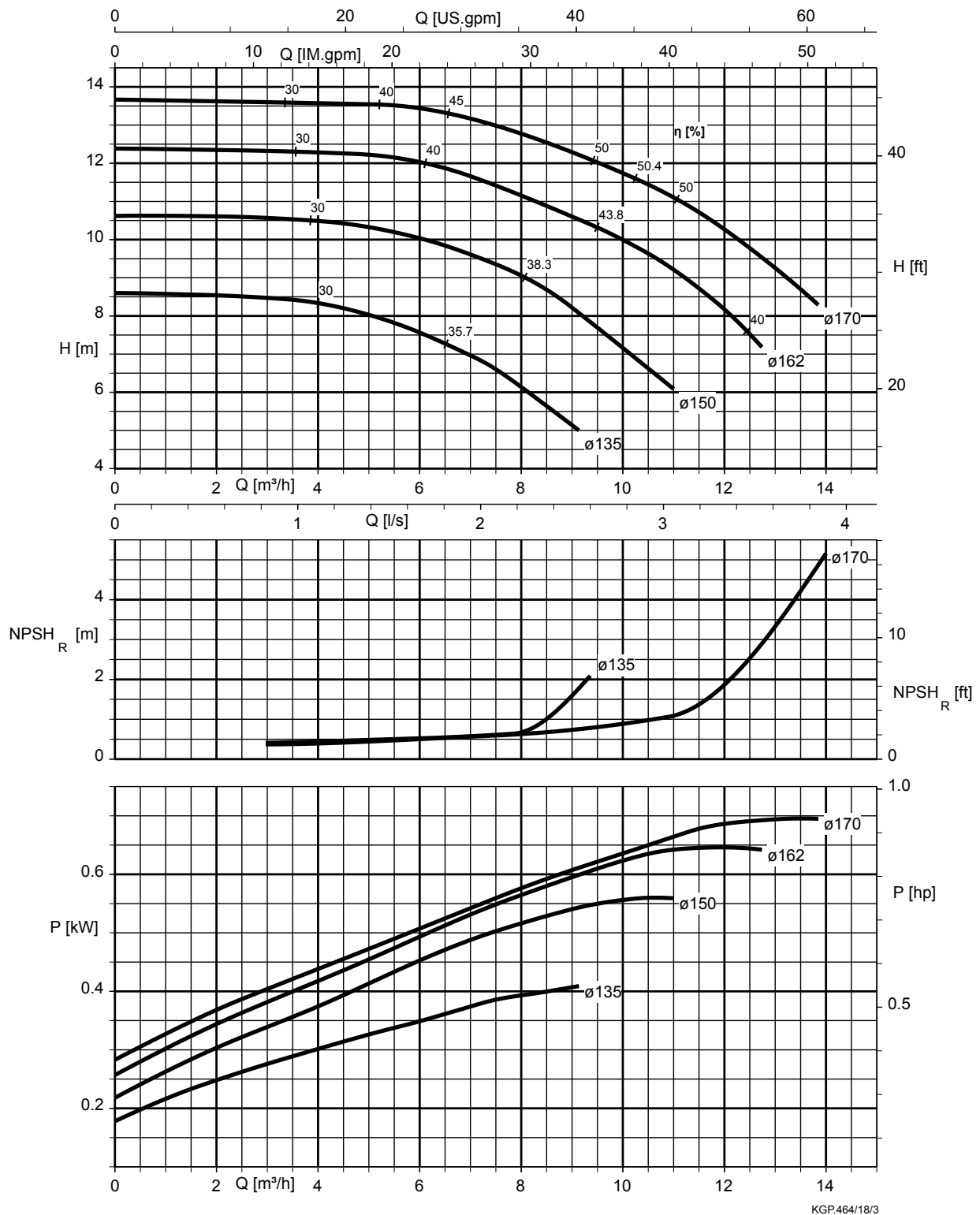
**MegaCPK 050-032-125, n = 1.750 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



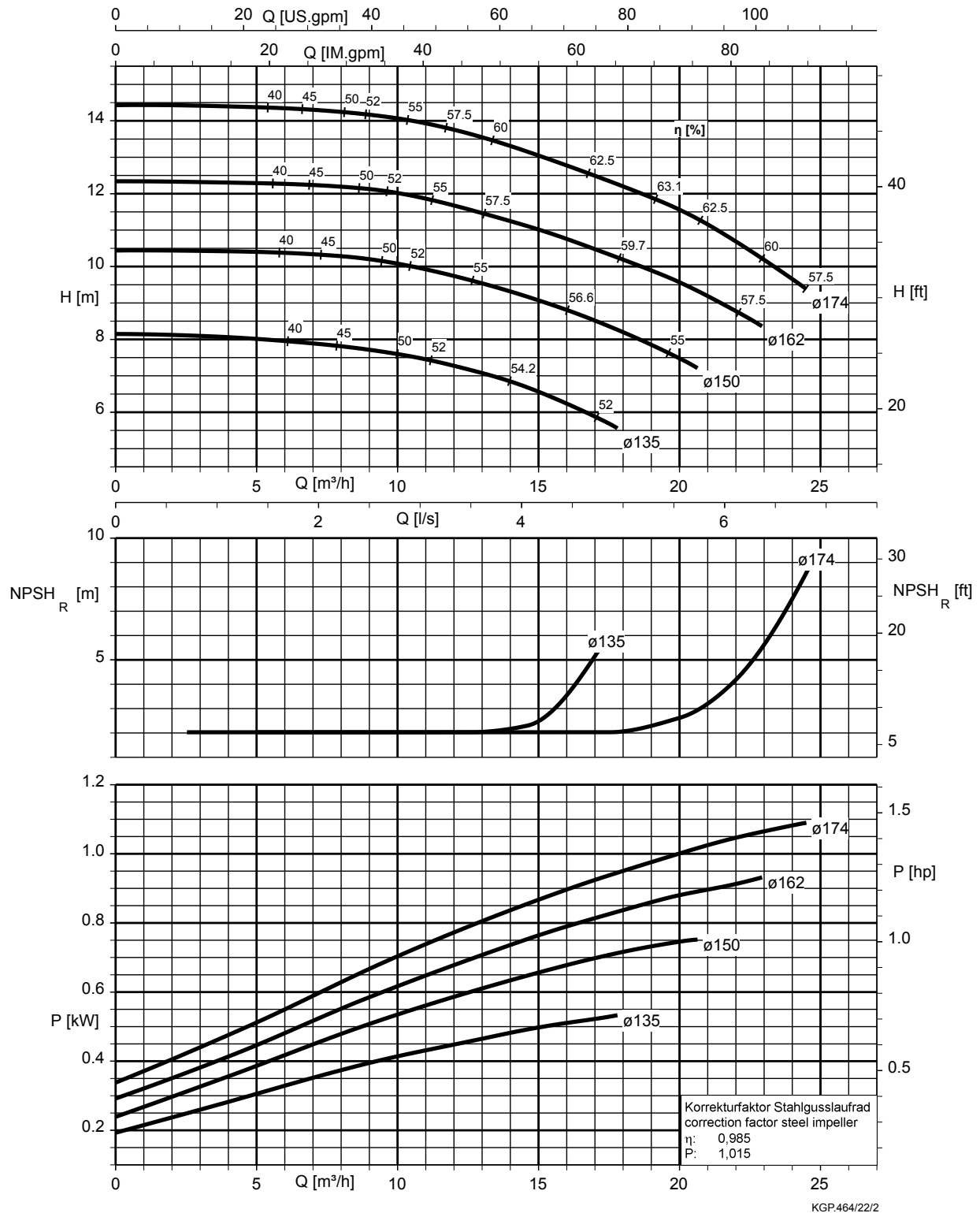
**MegaCPK 050-032-160.1, n = 1.750 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



**MegaCPK 050-032-160, n = 1.750 rpm**

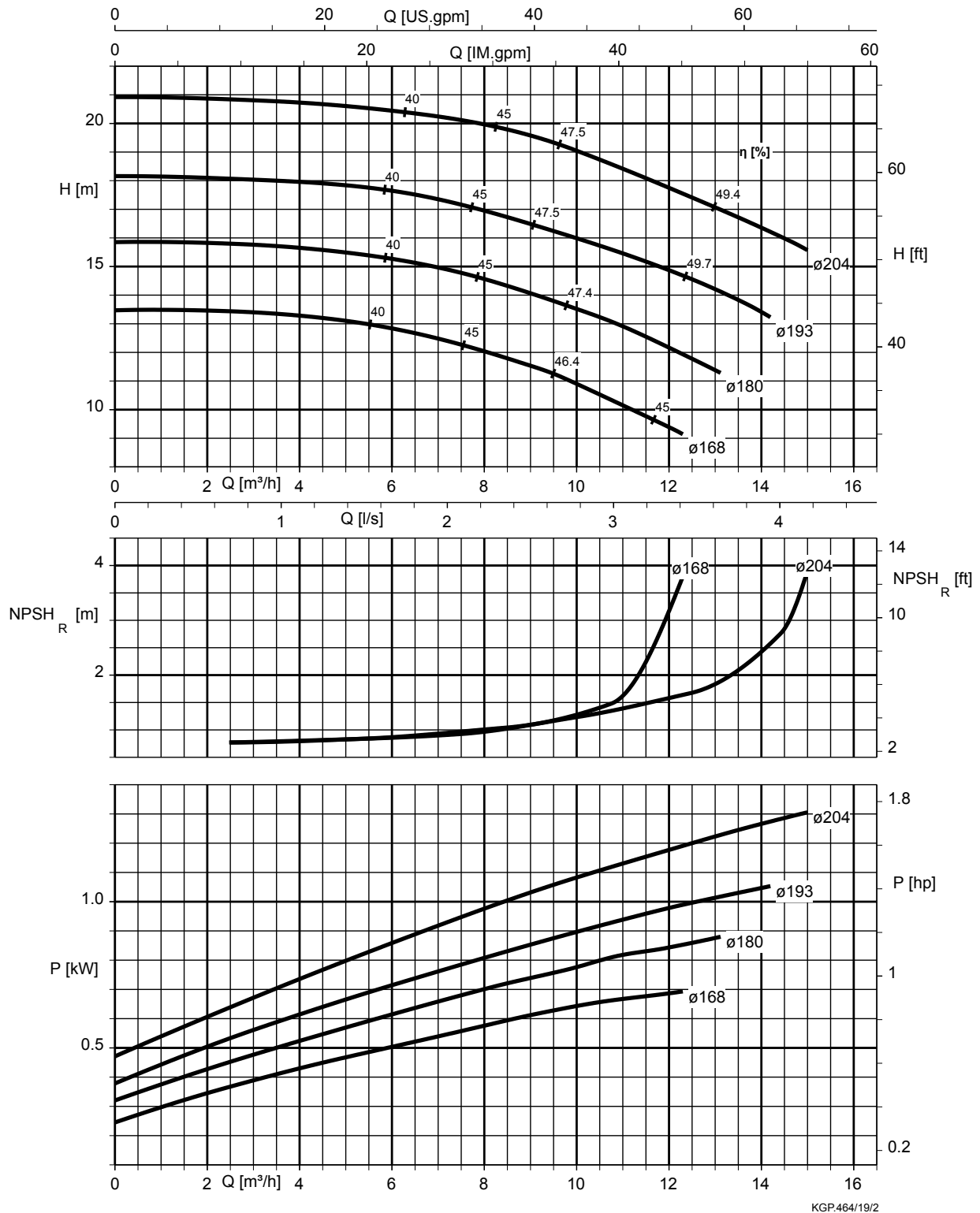
HPK-L, Magnochem, Magnochem-Bloc, Meganorm





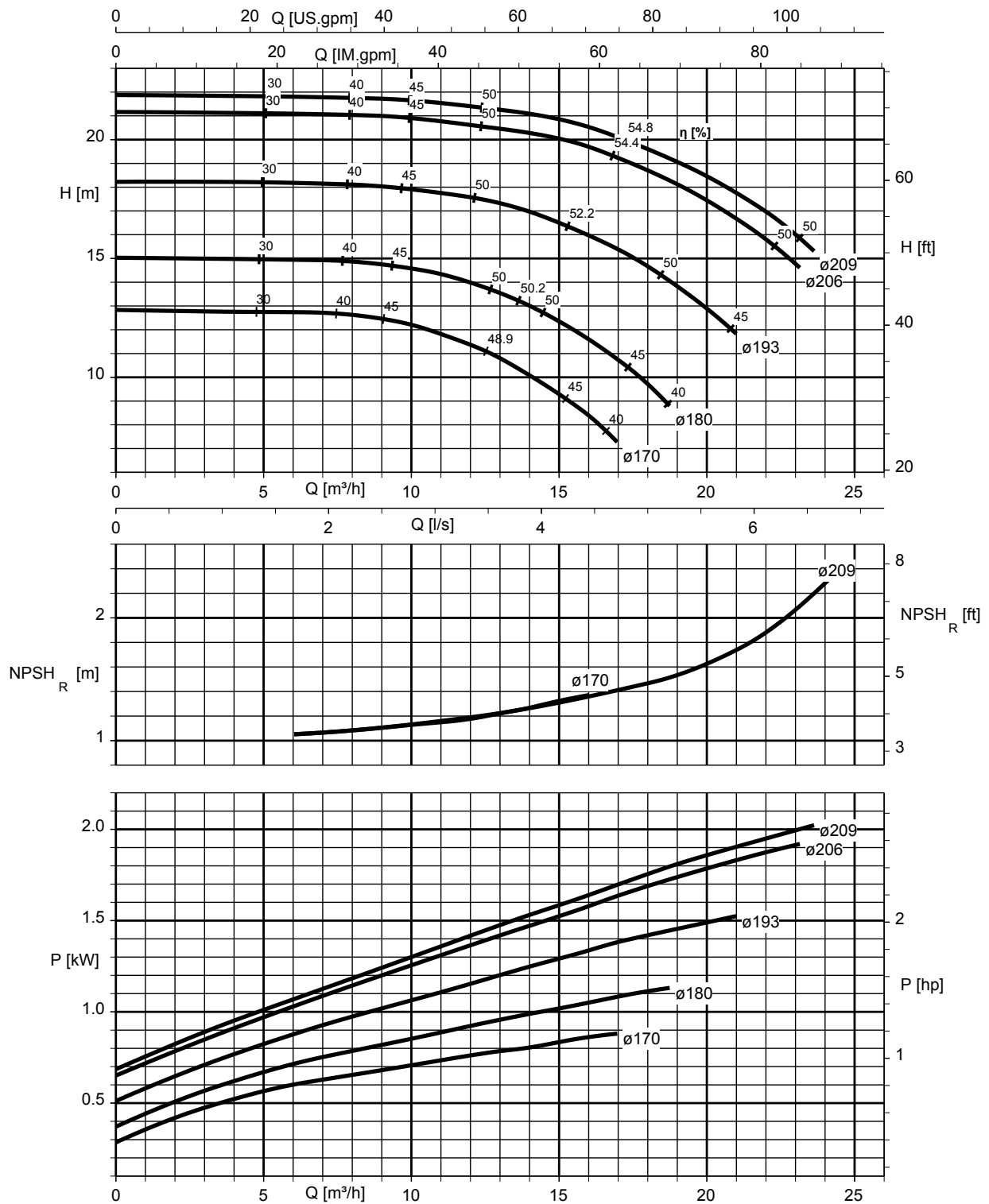
MegaCPK 050-032-200.1,  $n = 1.750$  rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



**MegaCPK 050-032-200, n = 1750 rpm**

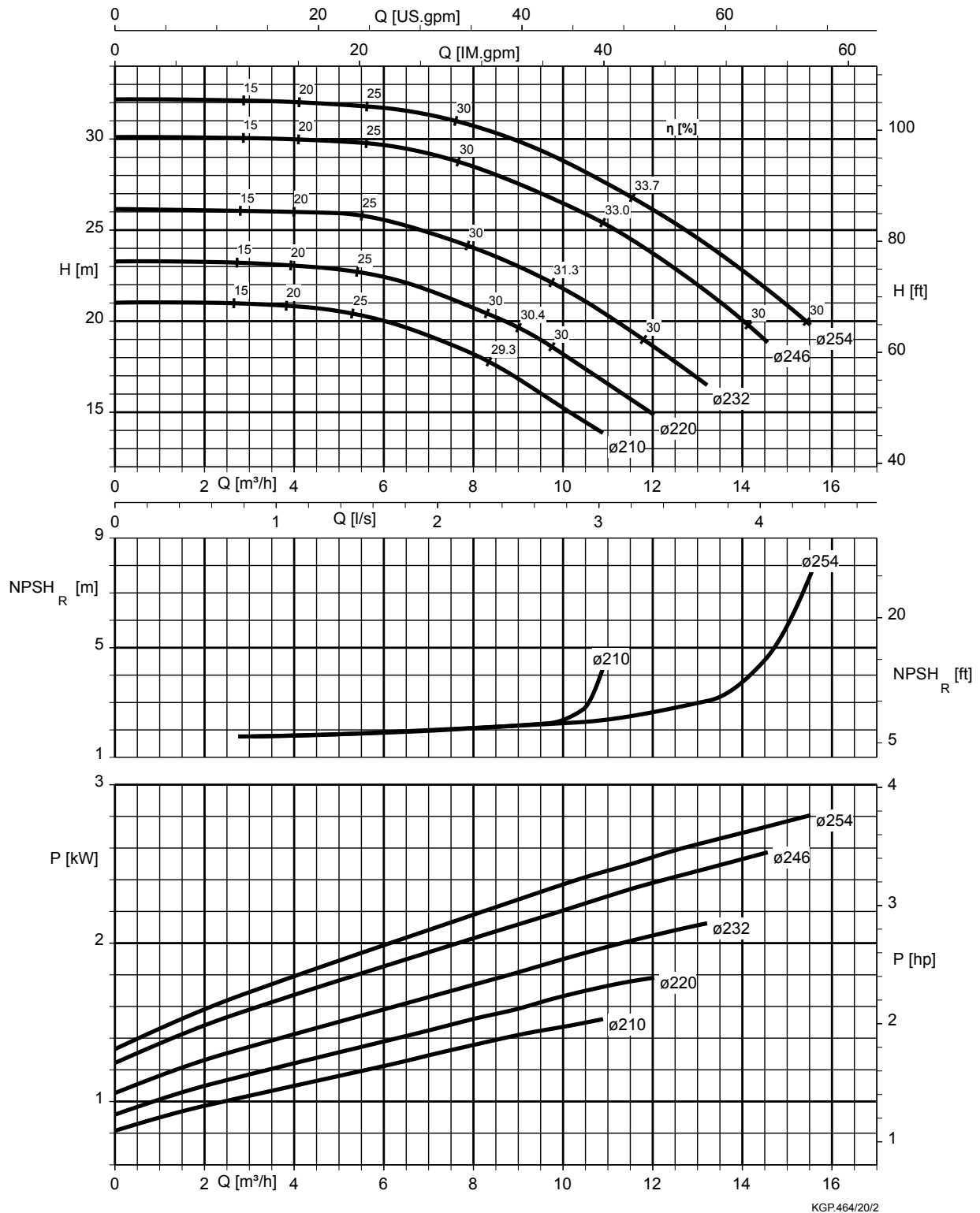
HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



KGP.464/23/1

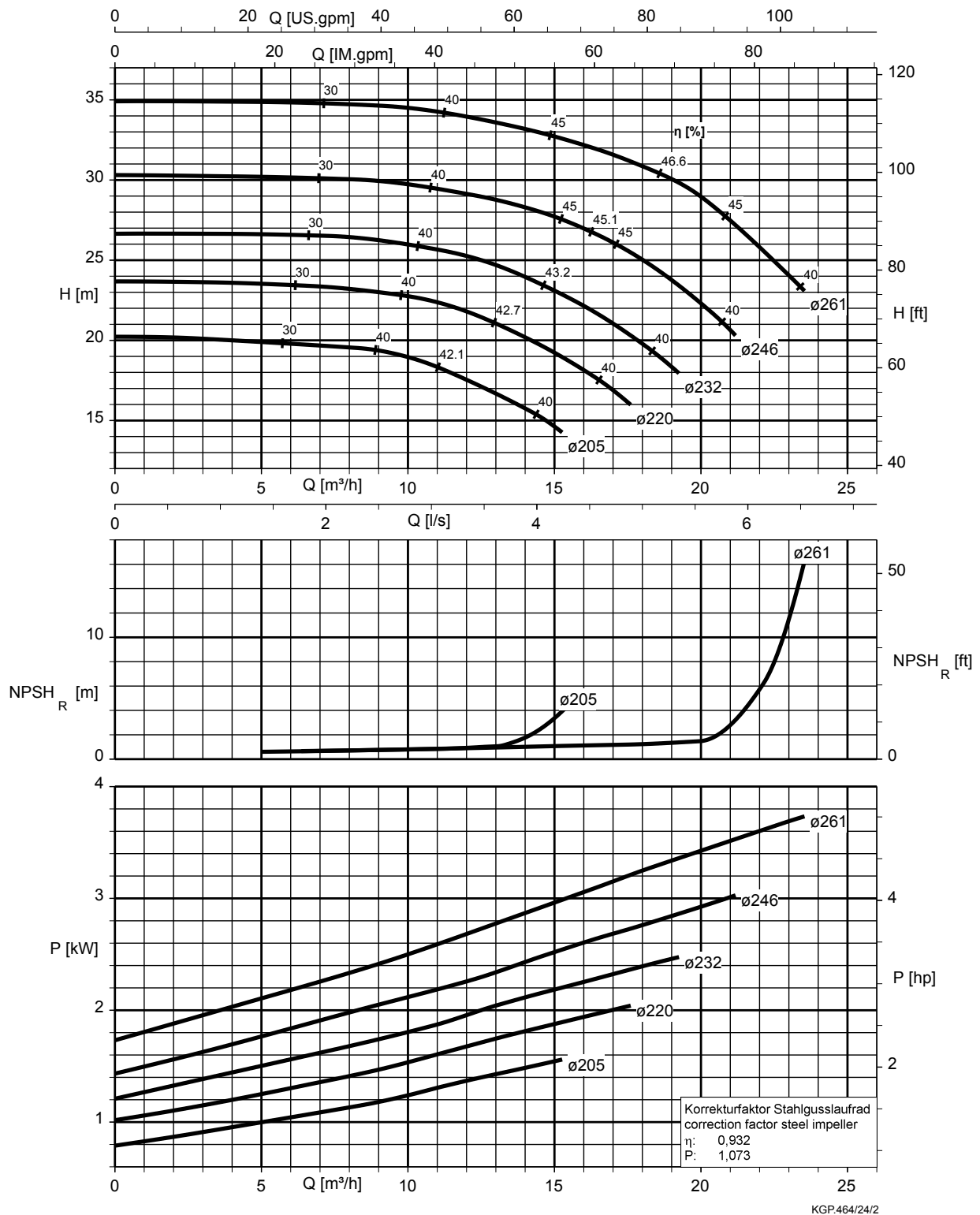
**MegaCPK 050-032-250.1,  $n = 1.750$  rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



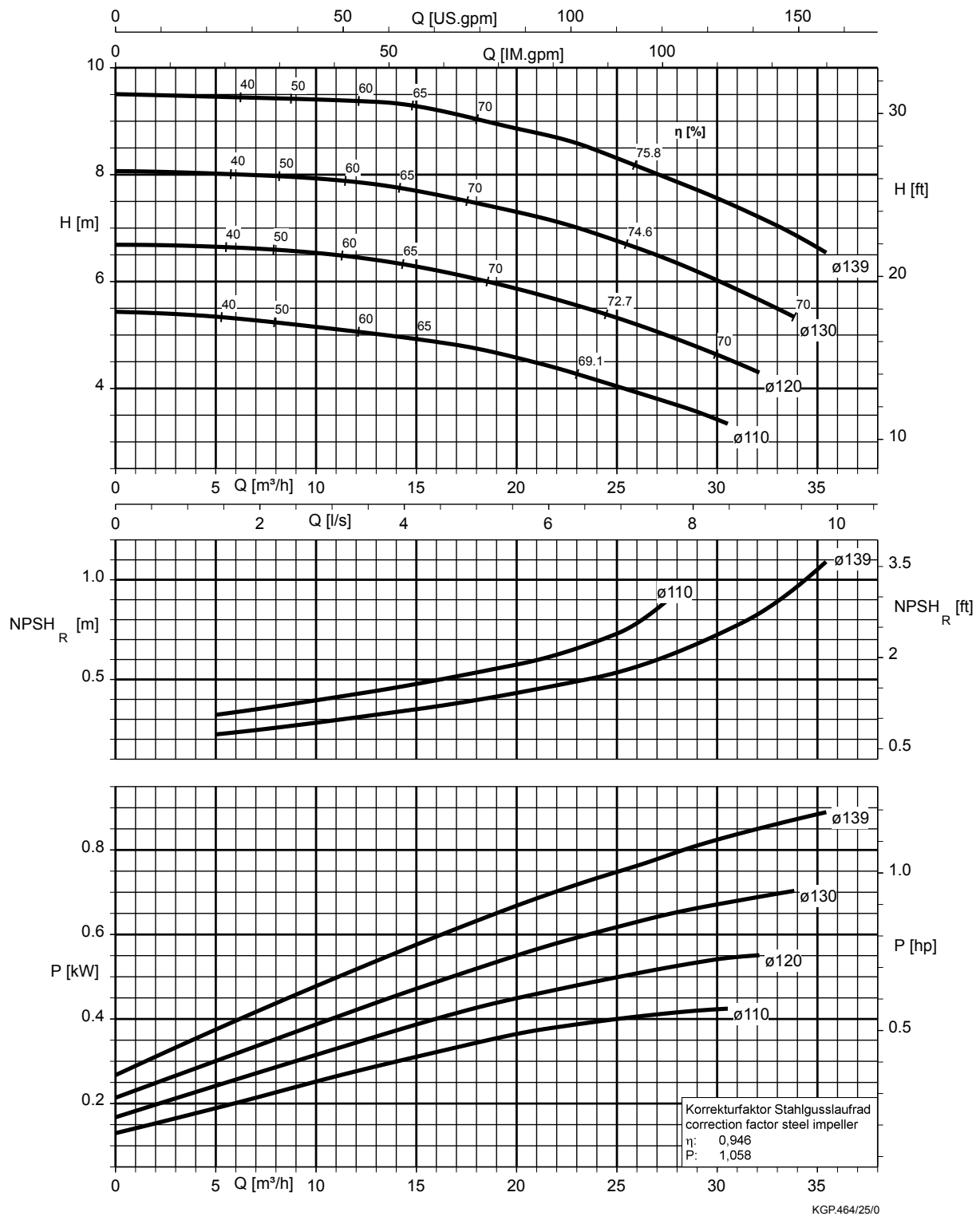
**MegaCPK 050-032-250, n = 1.750 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



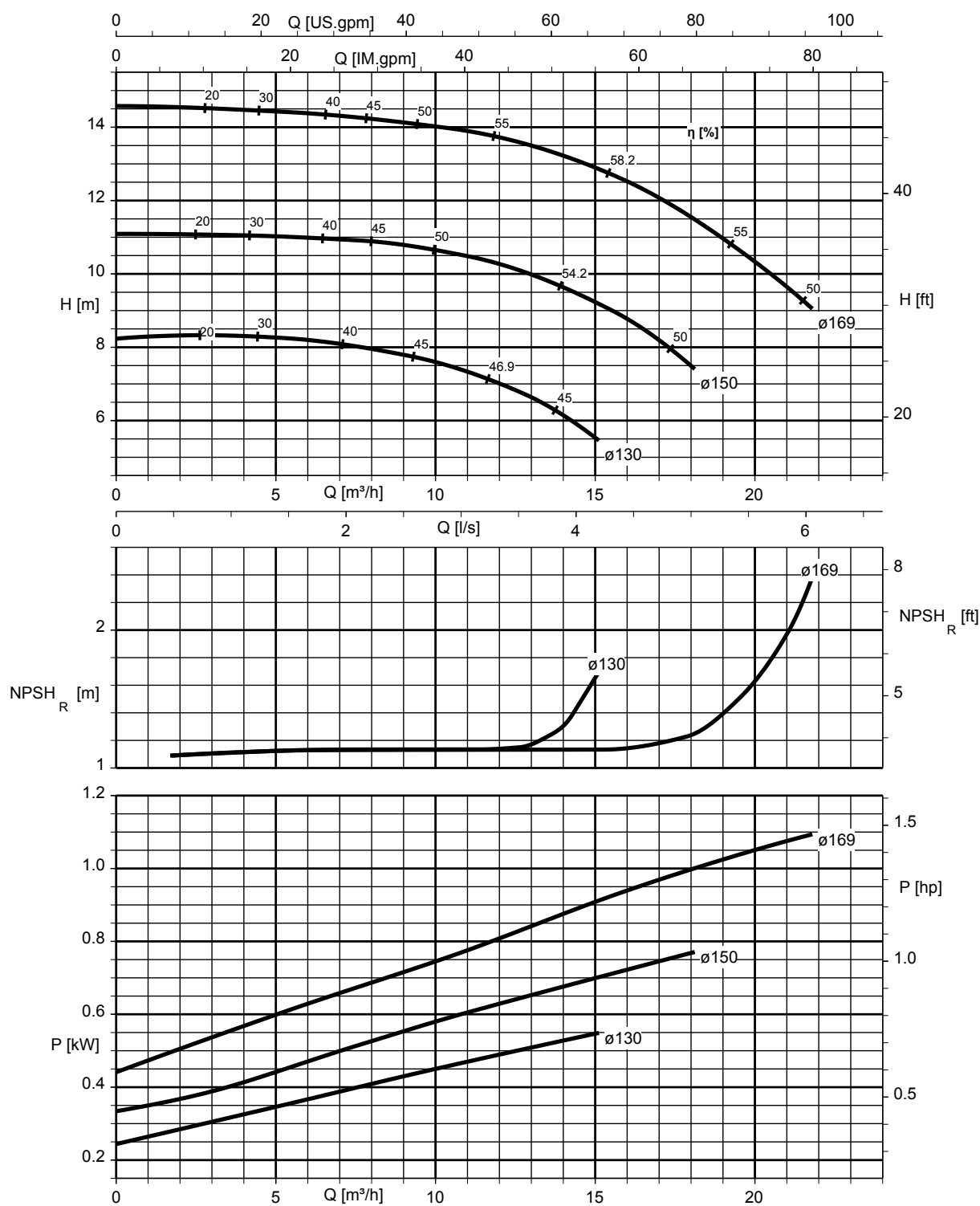
**MegaCPK 065-040-125, n = 1.750 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



**MegaCPK 065-040-160.1, n = 1750 rpm**

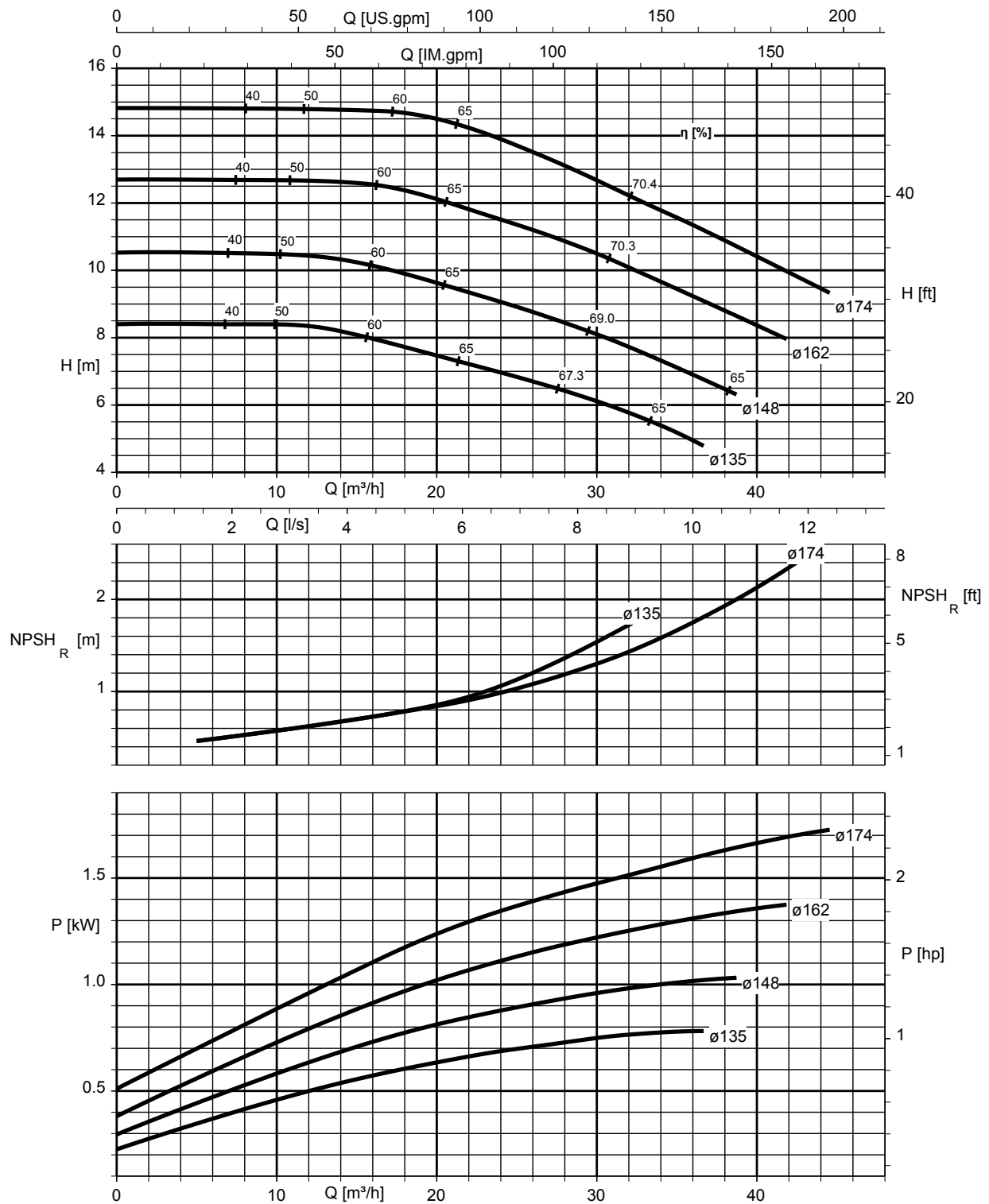
HPK-L, Magnochem, Magnochem-Bloc



KGP464/11/0

**MegaCPK 065-040-160, n = 1.750 rpm**

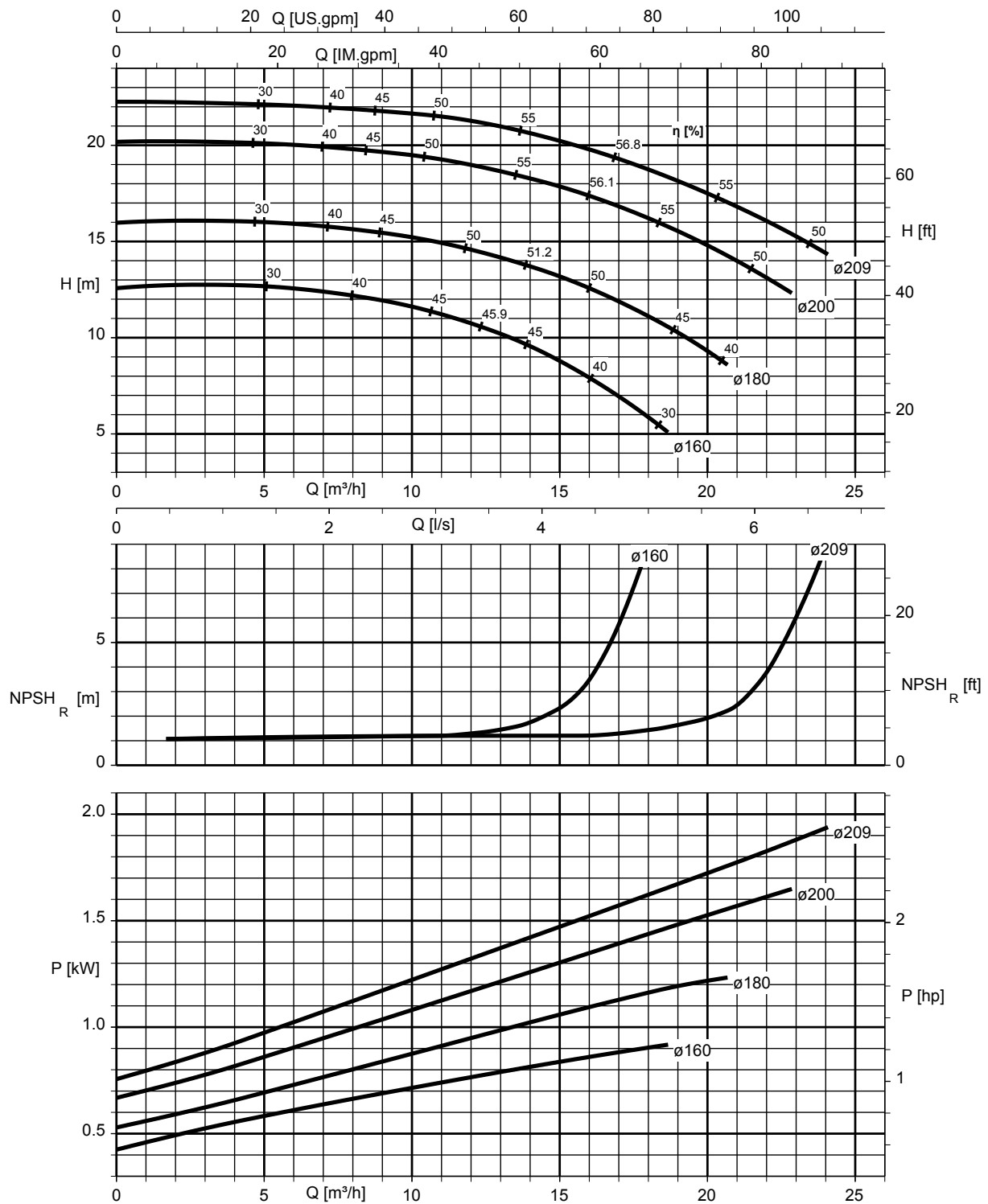
HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



KGP.464/26/1

**MegaCPK 065-040-200.1, n = 1750 rpm**

Magnochem, Magnochem-Bloc

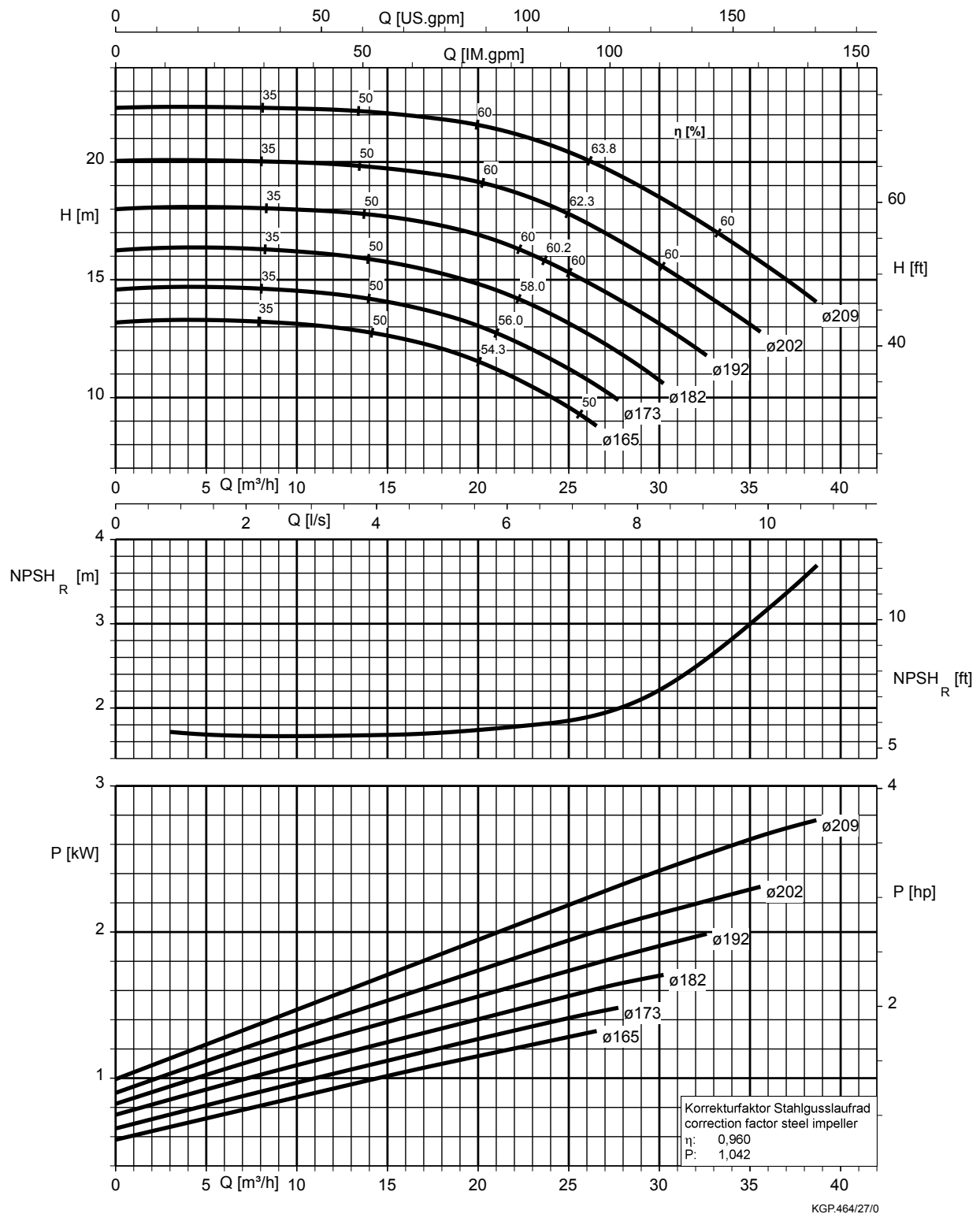


KGP.464/05/0



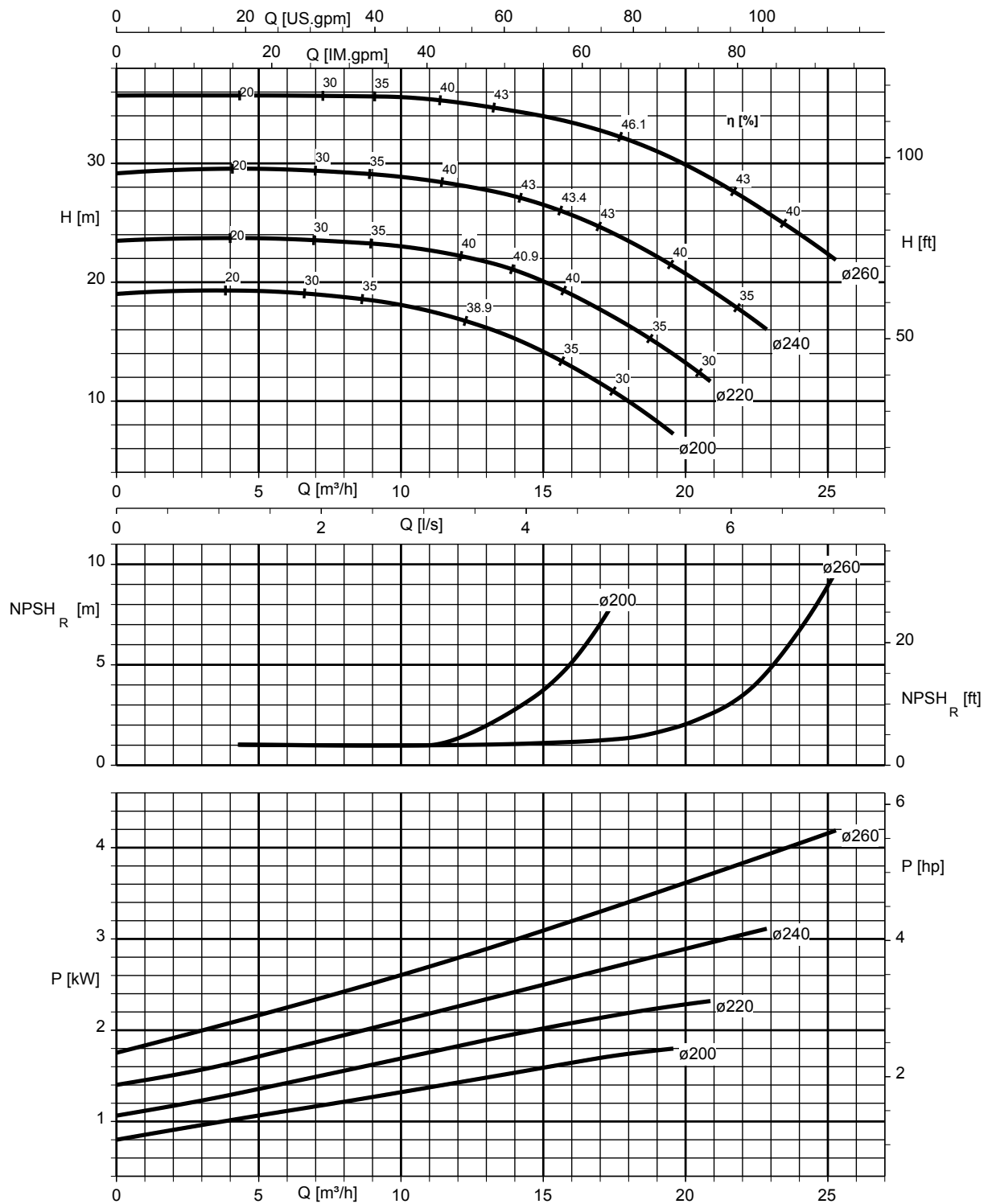
**MegaCPK 065-040-200, n = 1.750 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



**MegaCPK 065-040-250.1, n = 1750 rpm**

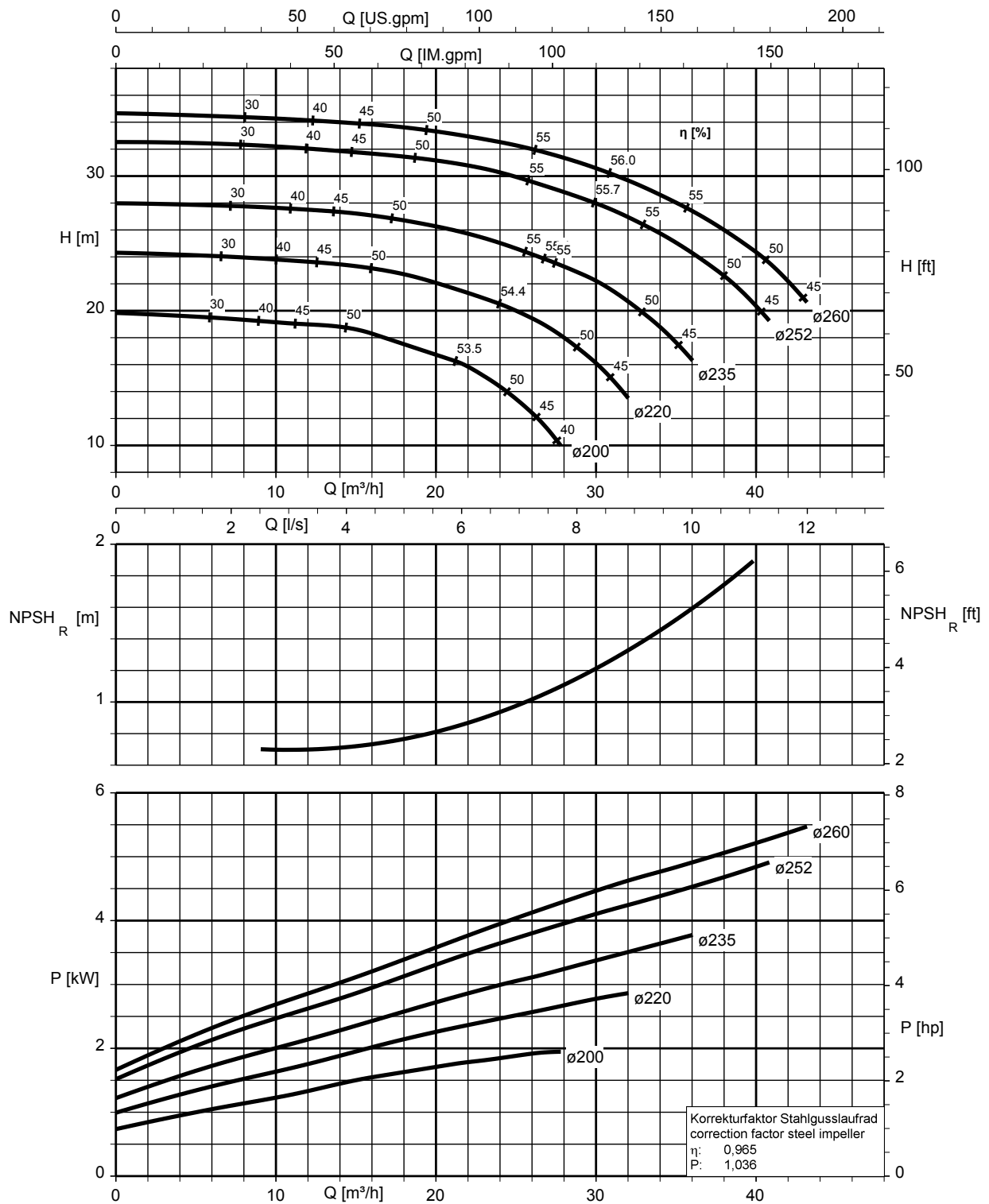
HPK-L, Magnochem, Magnochem-Bloc



KGP.464/12/0

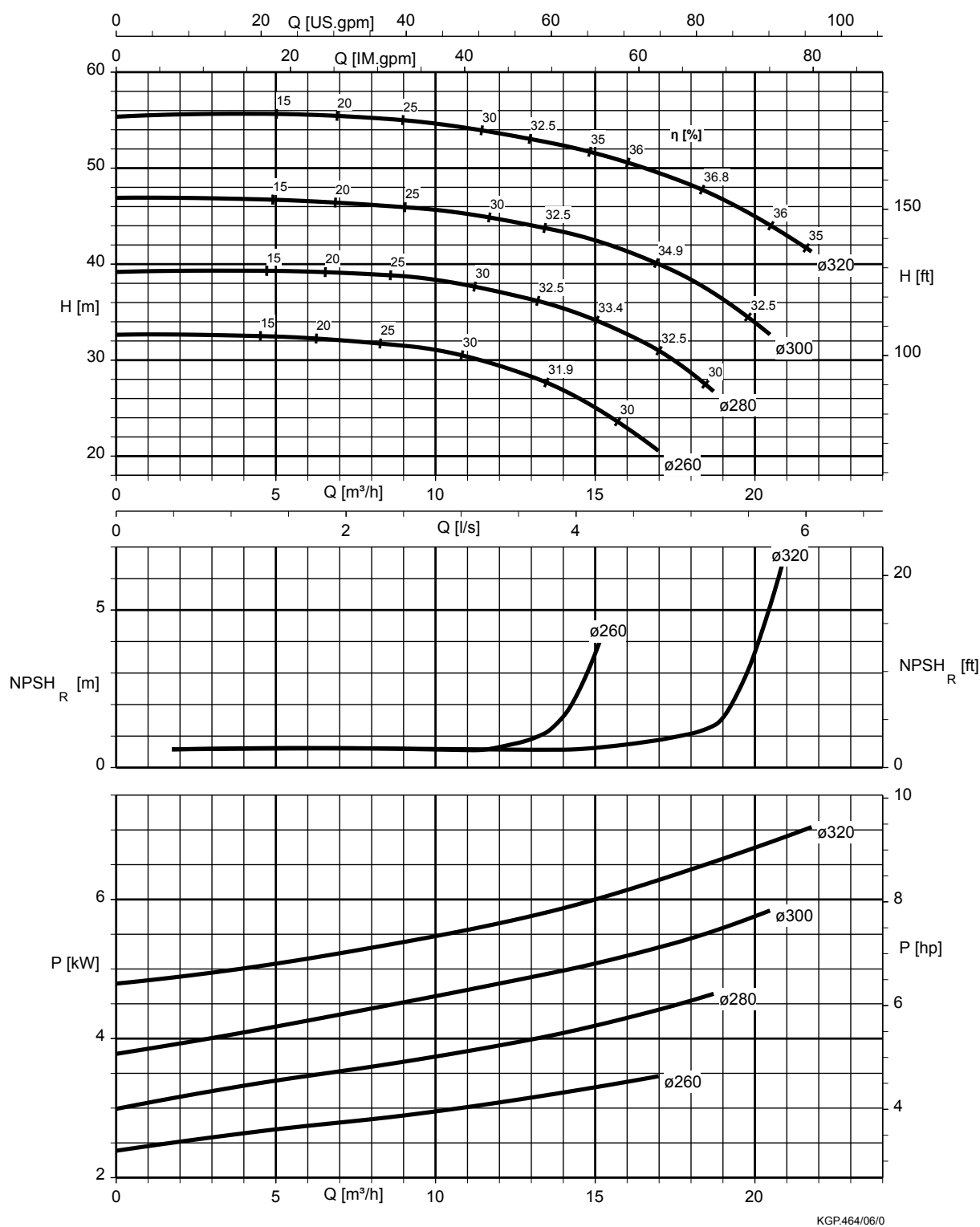
**MegaCPK 065-040-250, n = 1.750 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



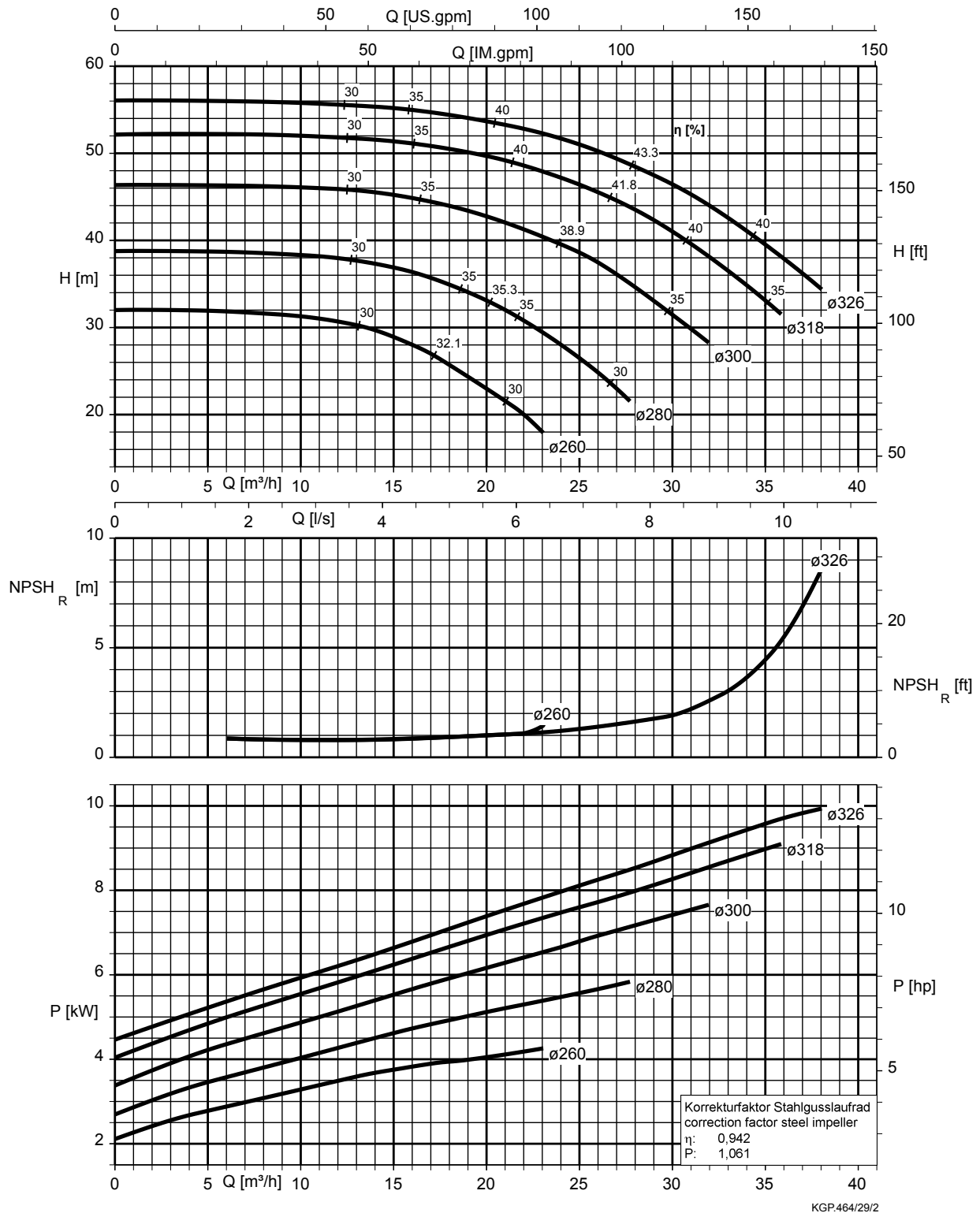
**MegaCPK 065-040-315.1, n = 1750 rpm**

Magnochem, Magnochem-Bloc



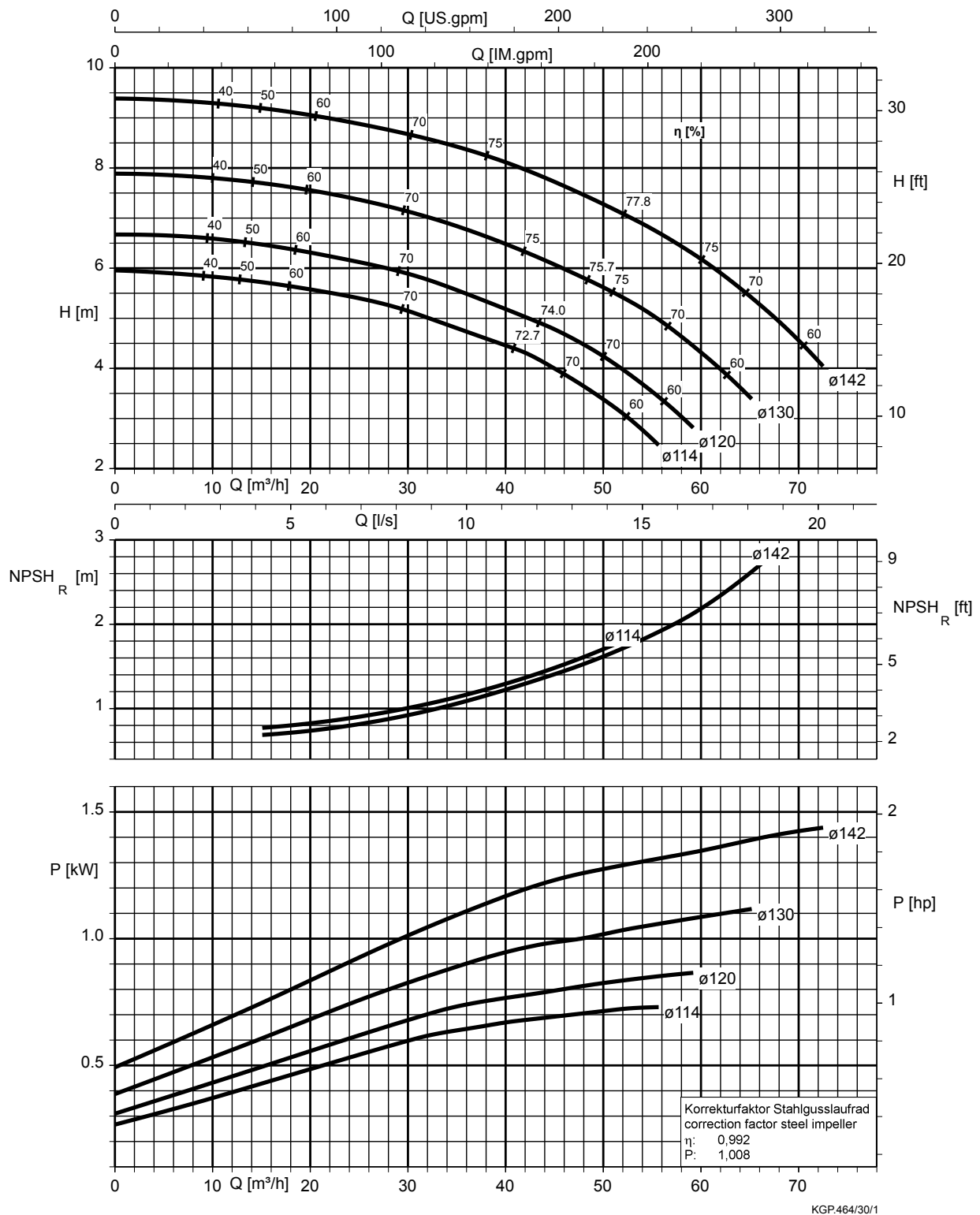
MegaCPK 065-040-315, n = 1.750 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



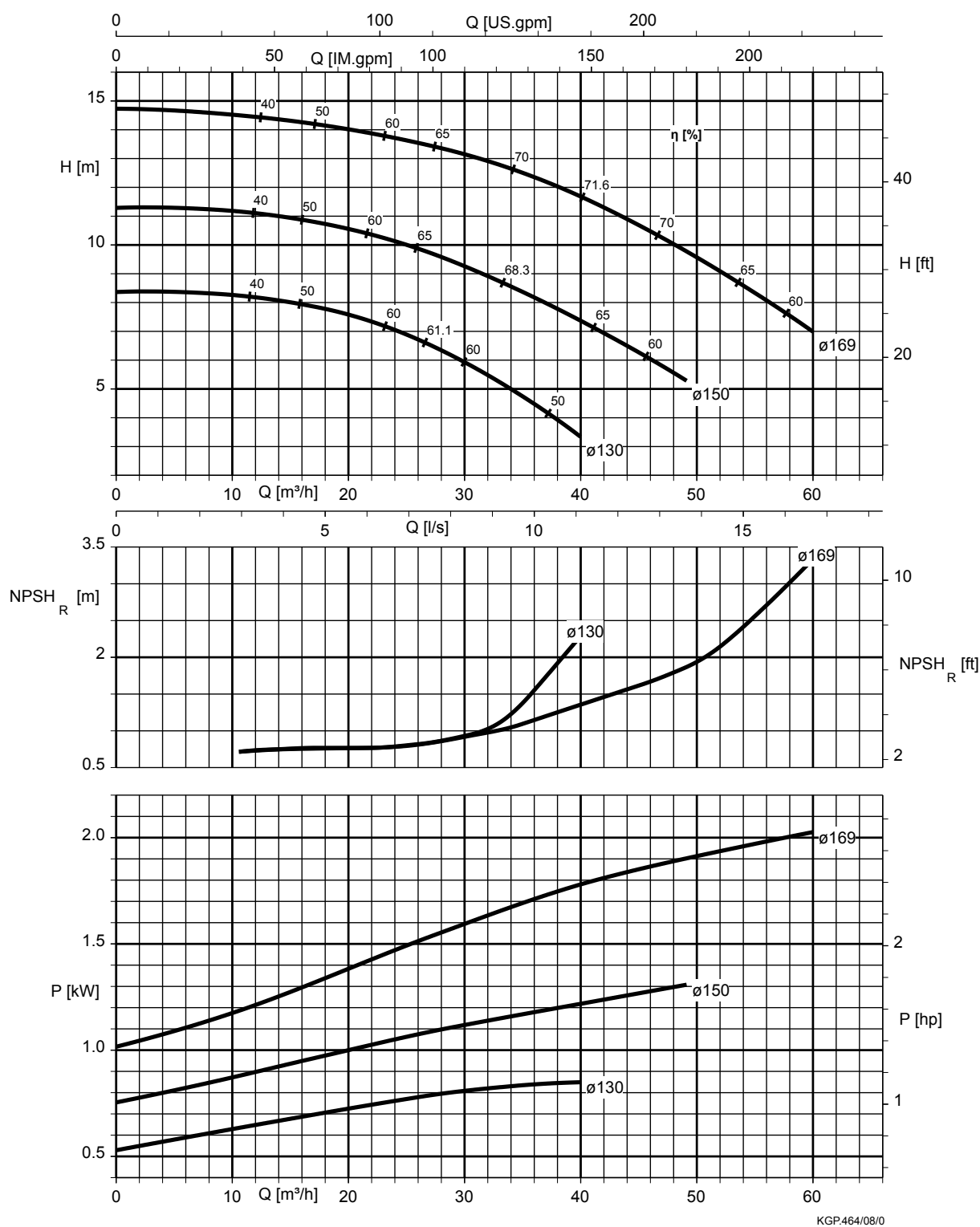
**MegaCPK 080-050-125, n = 1.750 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



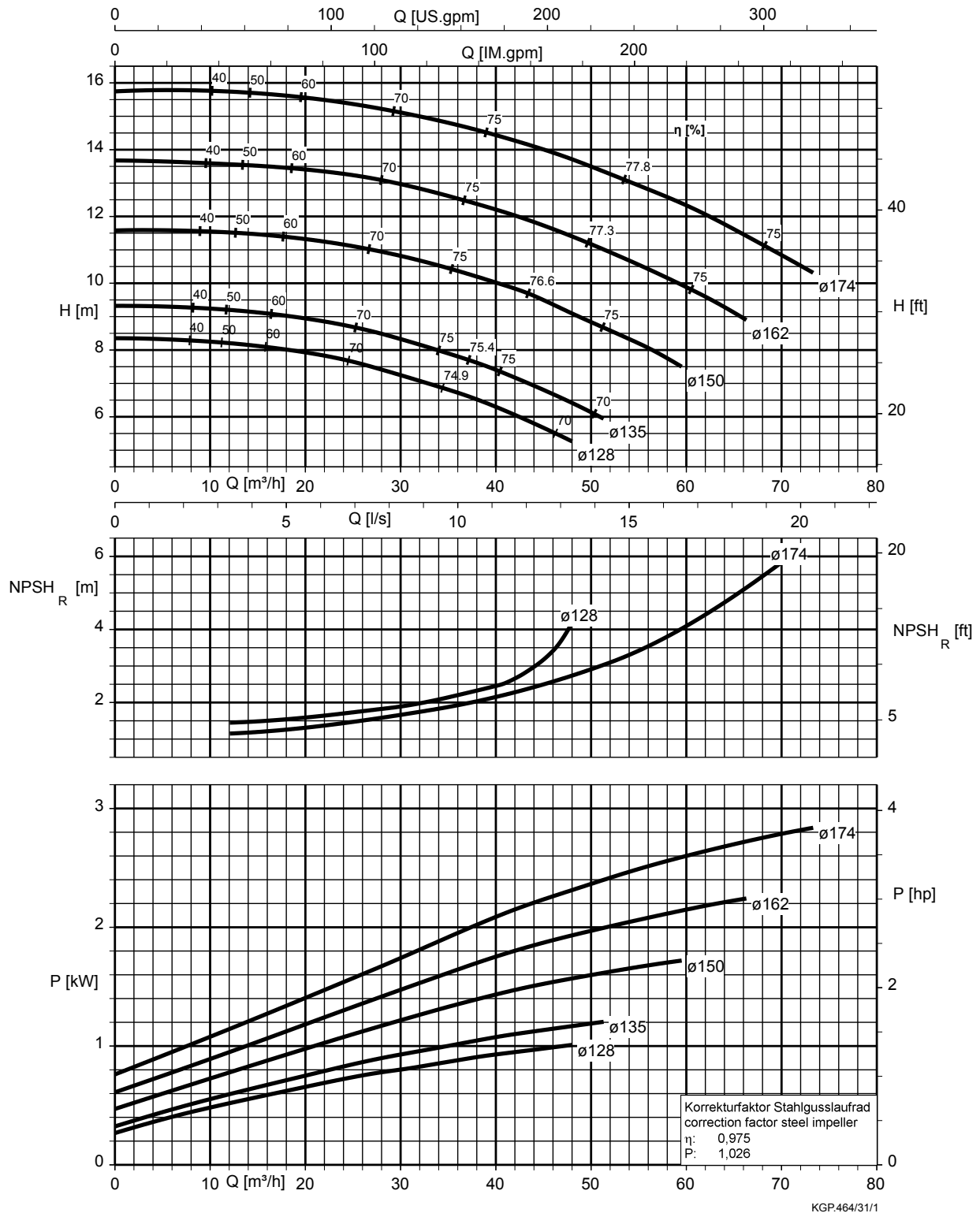
**MegaCPK 080-050-160.1, n = 1750 rpm**

Magnochem, Magnochem-Bloc



**MegaCPK 080-050-160, n = 1.750 rpm**

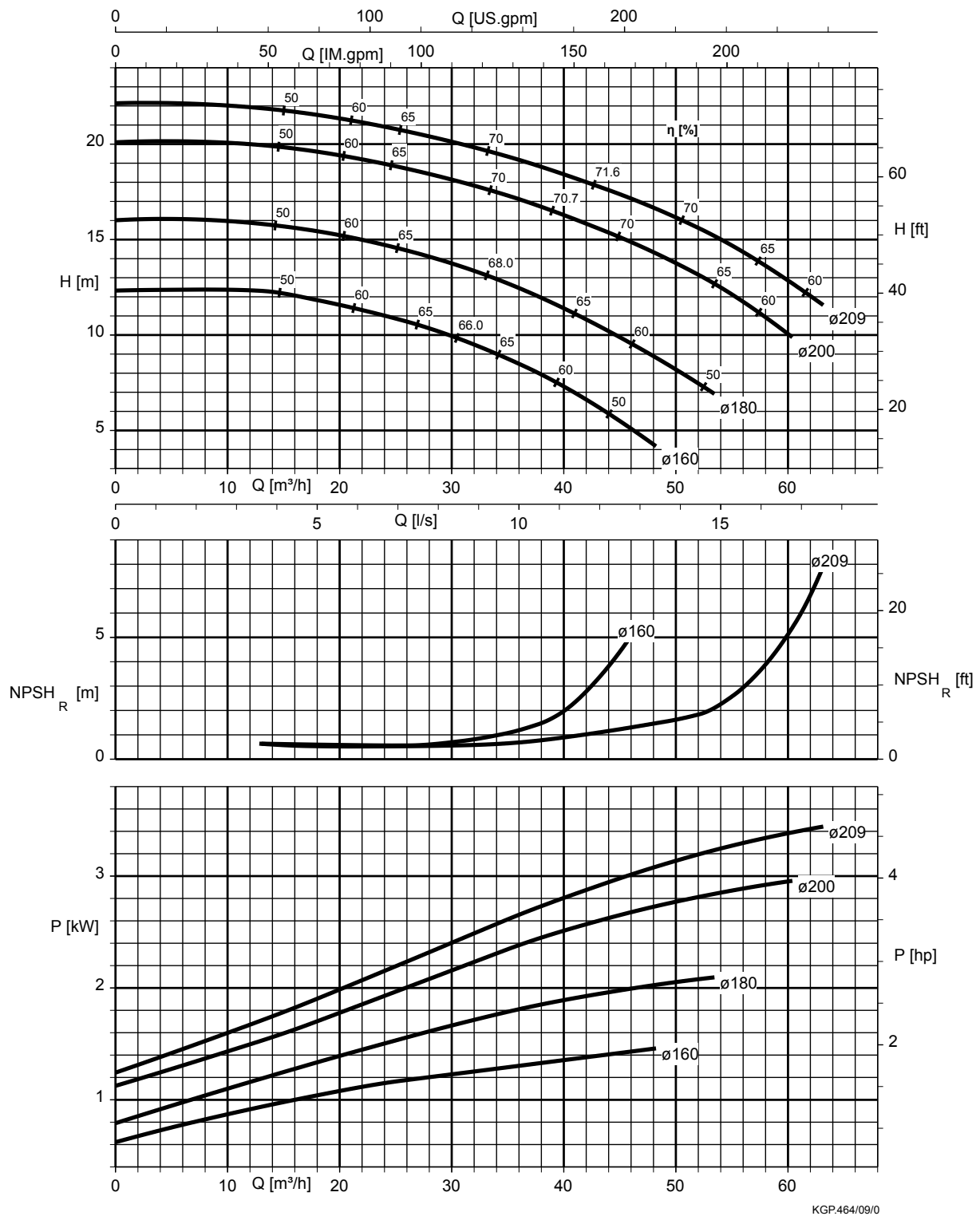
HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc





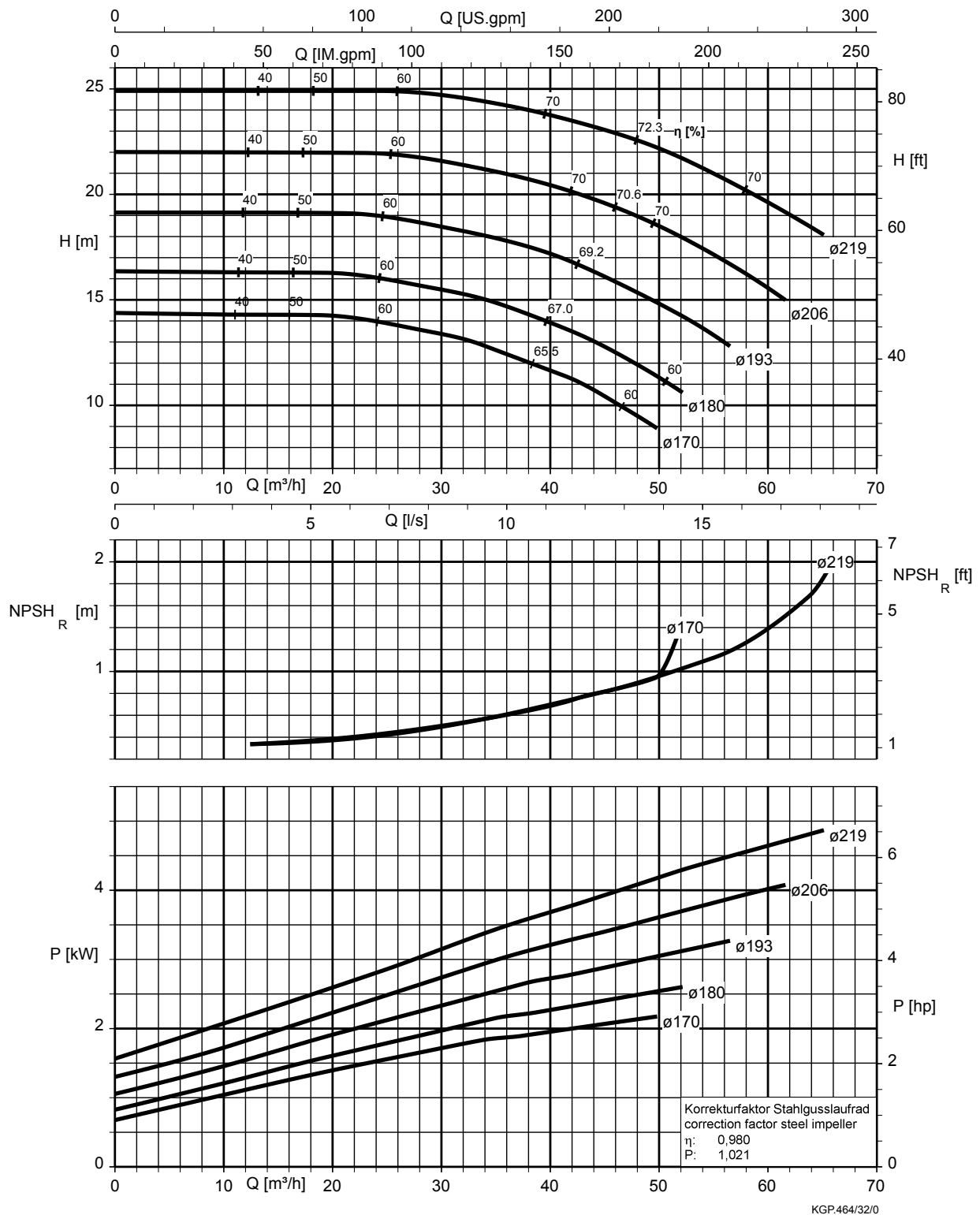
**MegaCPK 080-050-200.1, n = 1750 rpm**

Magnochem, Magnochem-Bloc



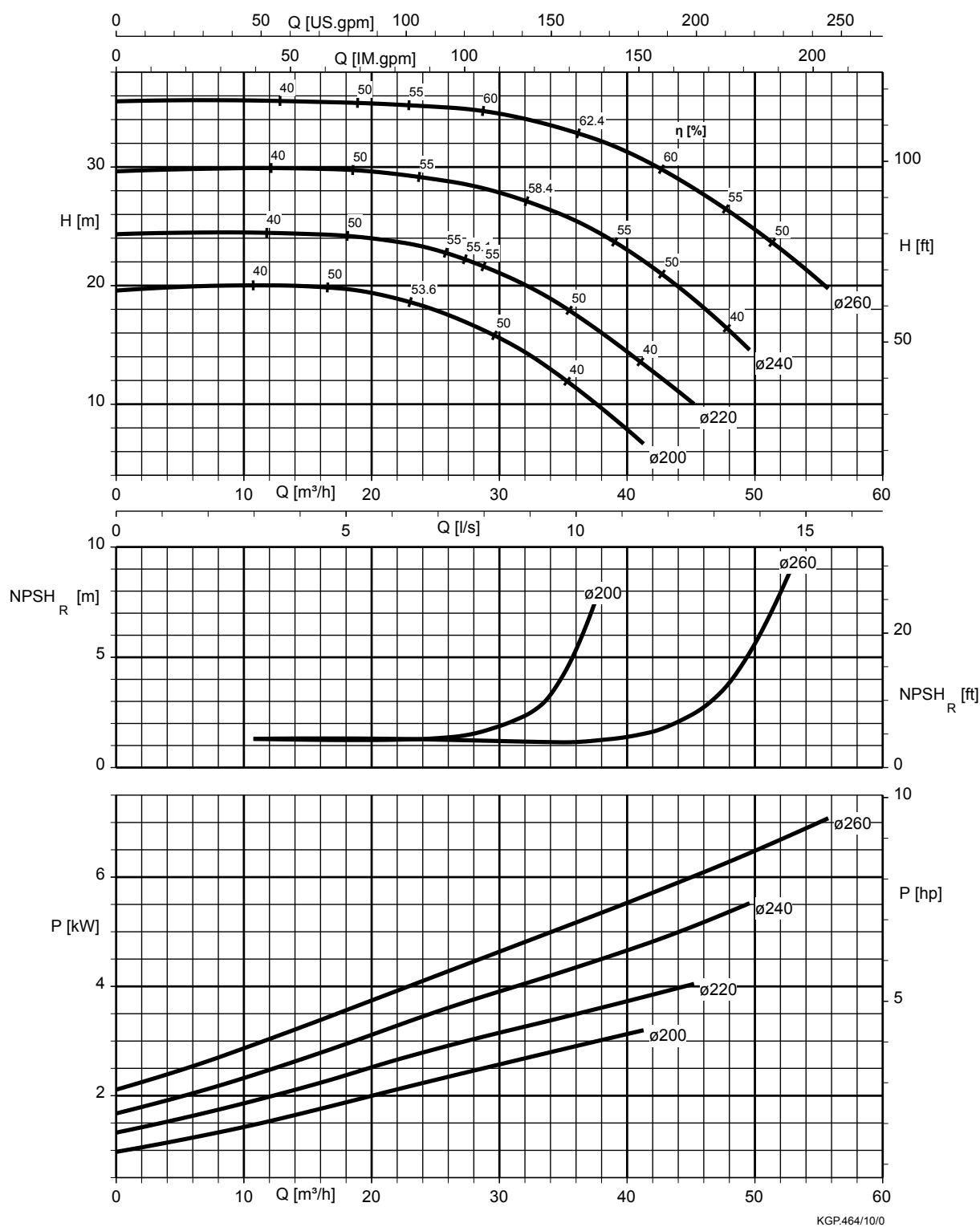
**MegaCPK 080-050-200, n = 1.750 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



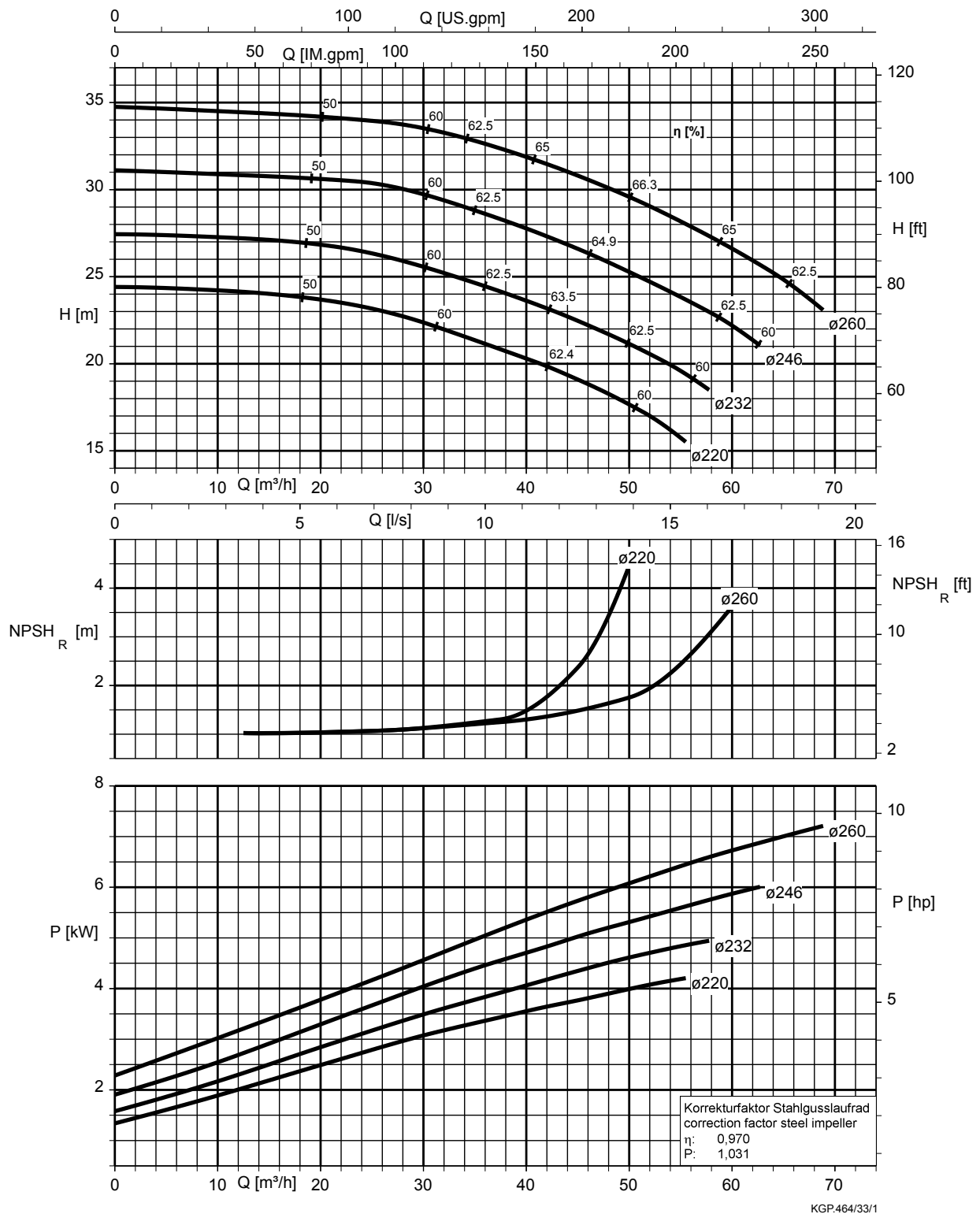
**MegaCPK 080-050-250.1, n = 1750 rpm**

Magnochem, Magnochem-Bloc



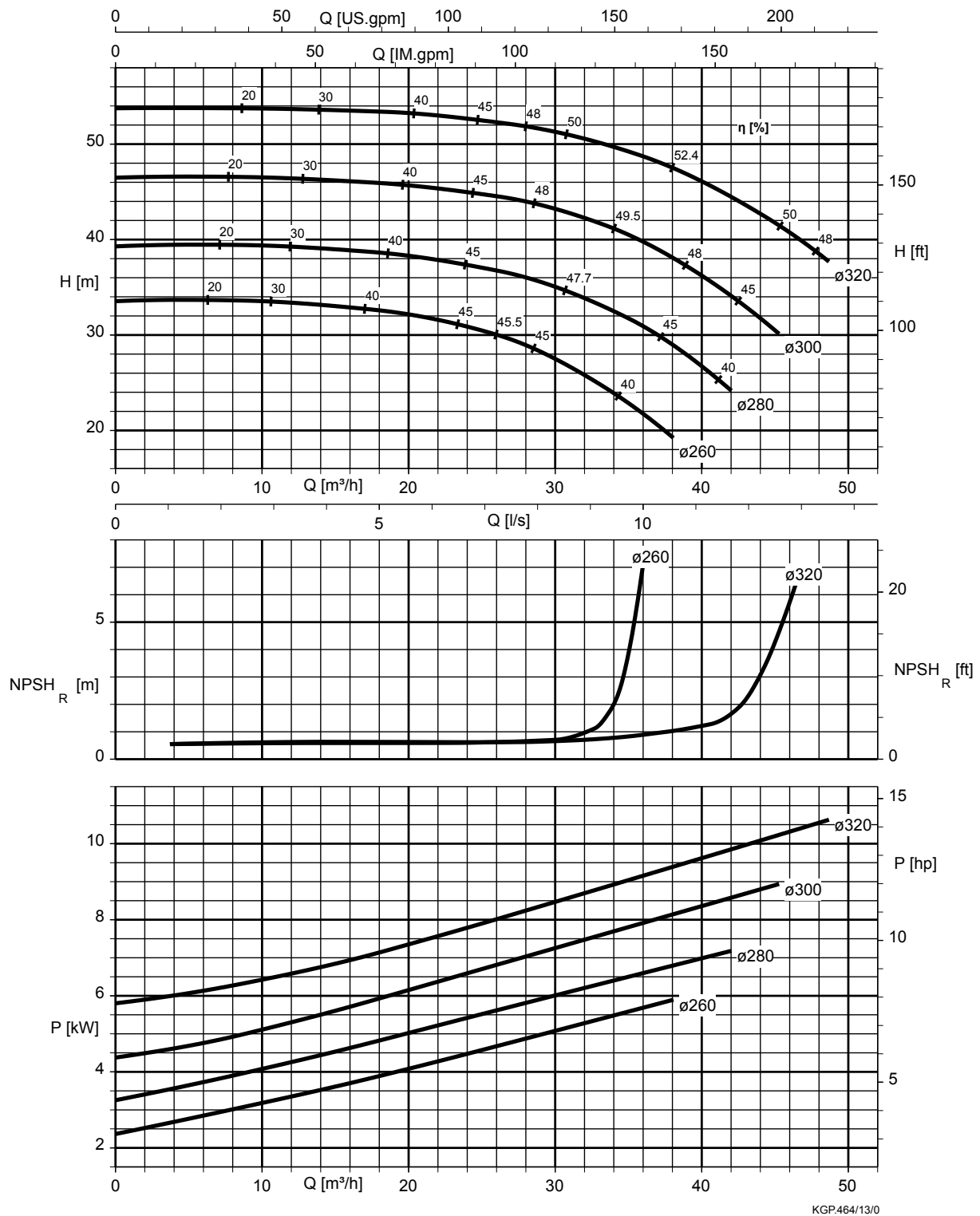
**MegaCPK 080-050-250, n = 1.750 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



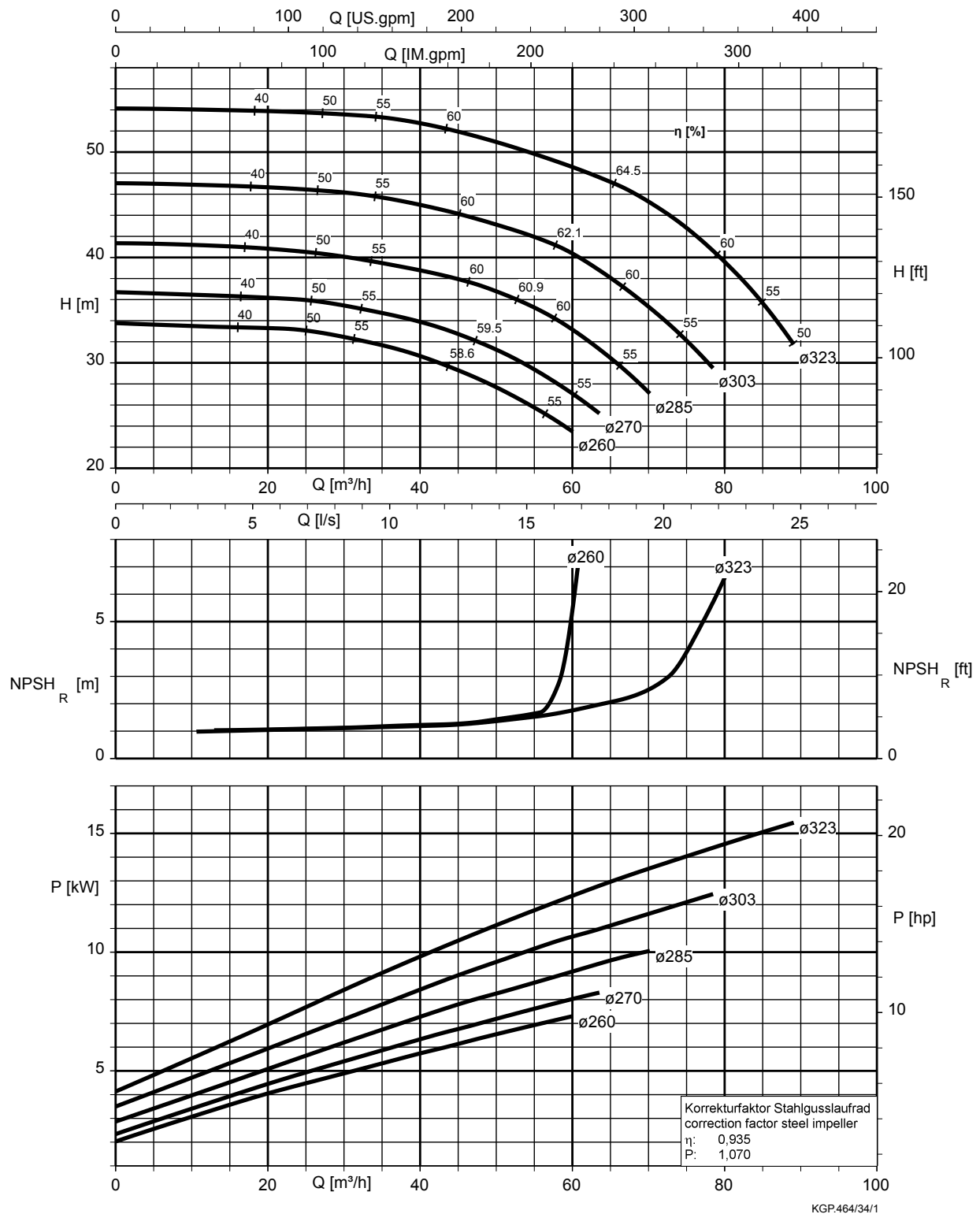
**MegaCPK 080-050-315.1, n = 1750 rpm**

HPK-L, Magnochem, Magnochem-Bloc



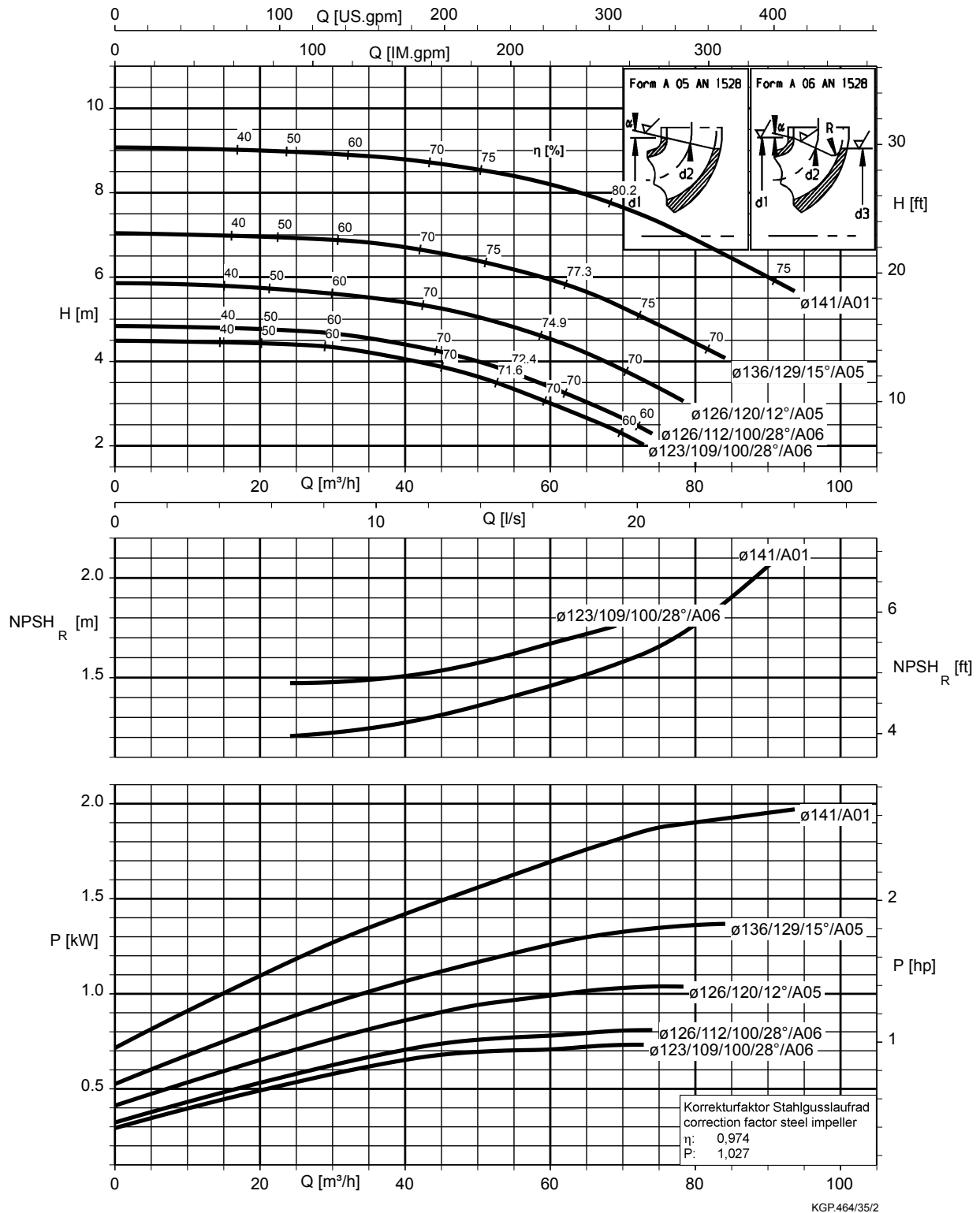
**MegaCPK 080-050-315, n = 1.750 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



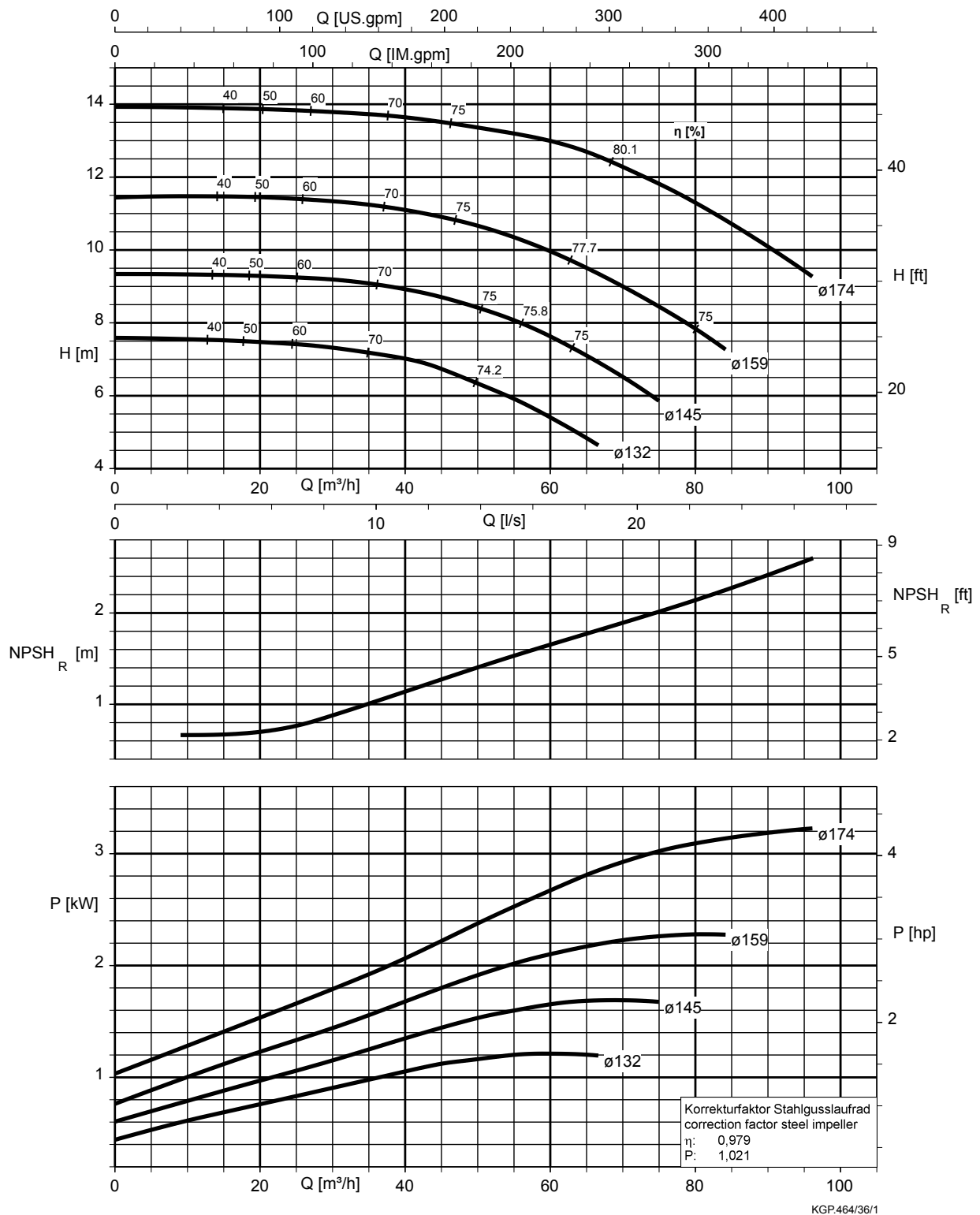
**MegaCPK 100-065-125, n = 1.750 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



**MegaCPK 100-065-160, n = 1.750 rpm**

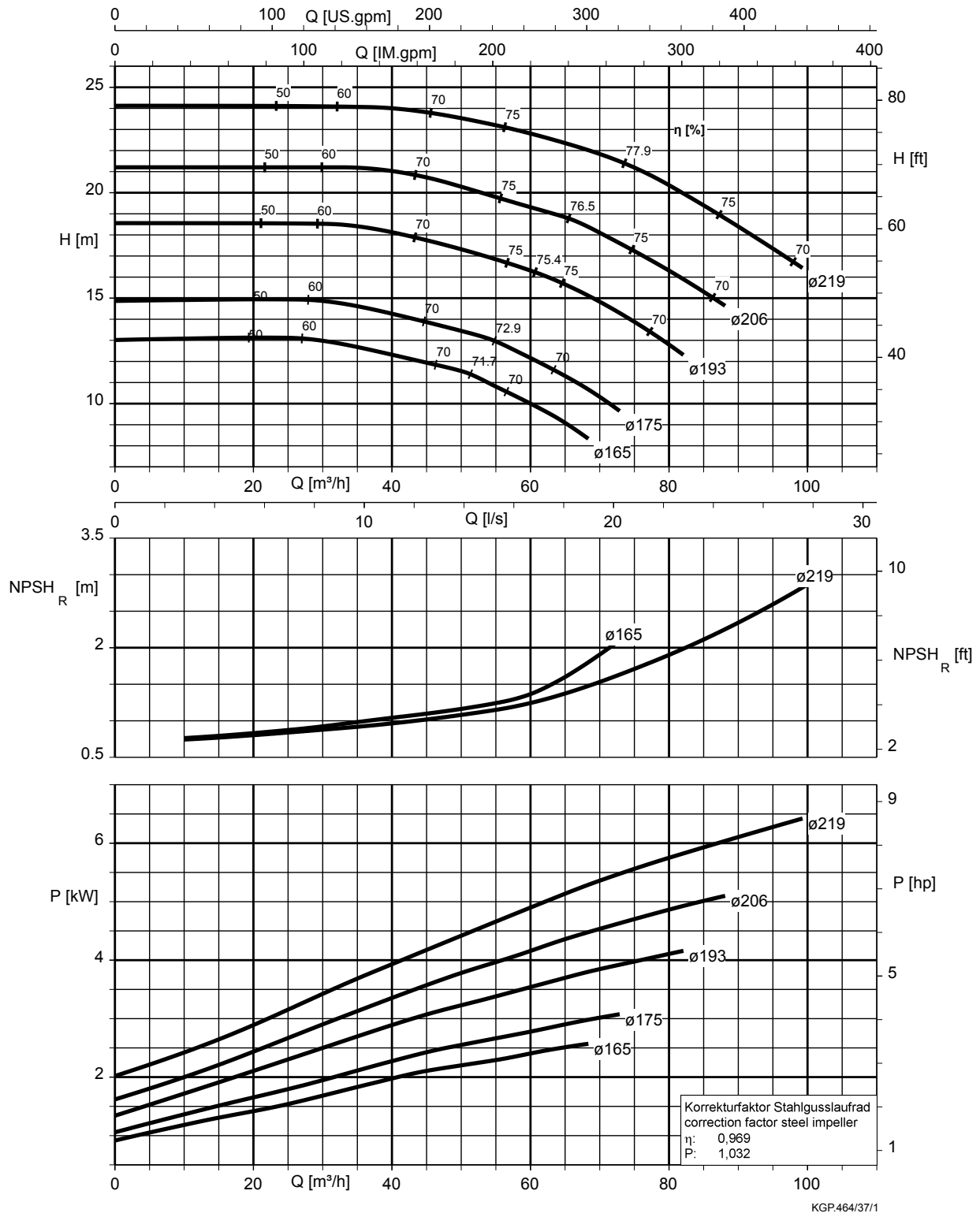
HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc





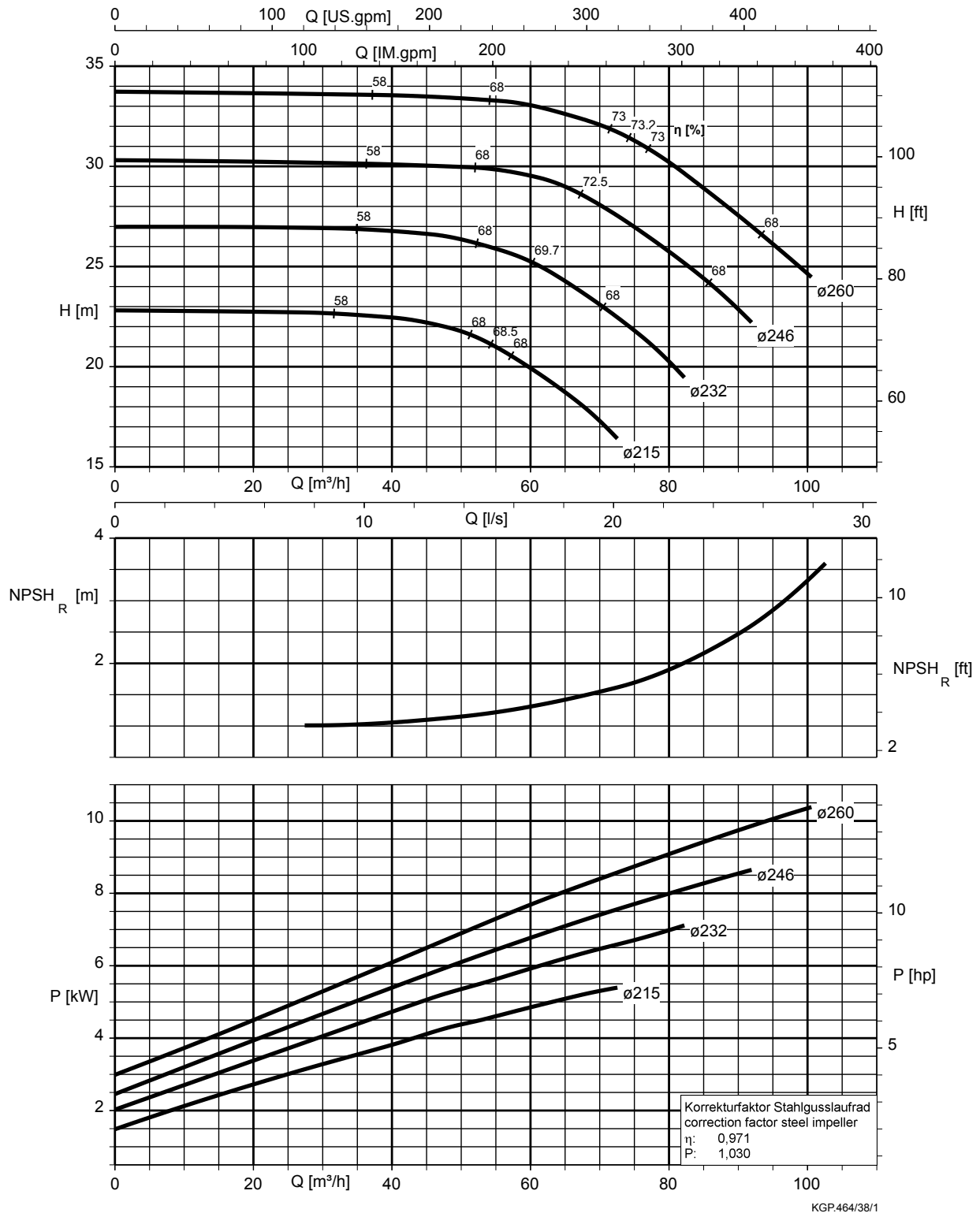
**MegaCPK 100-065-200, n = 1.750 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



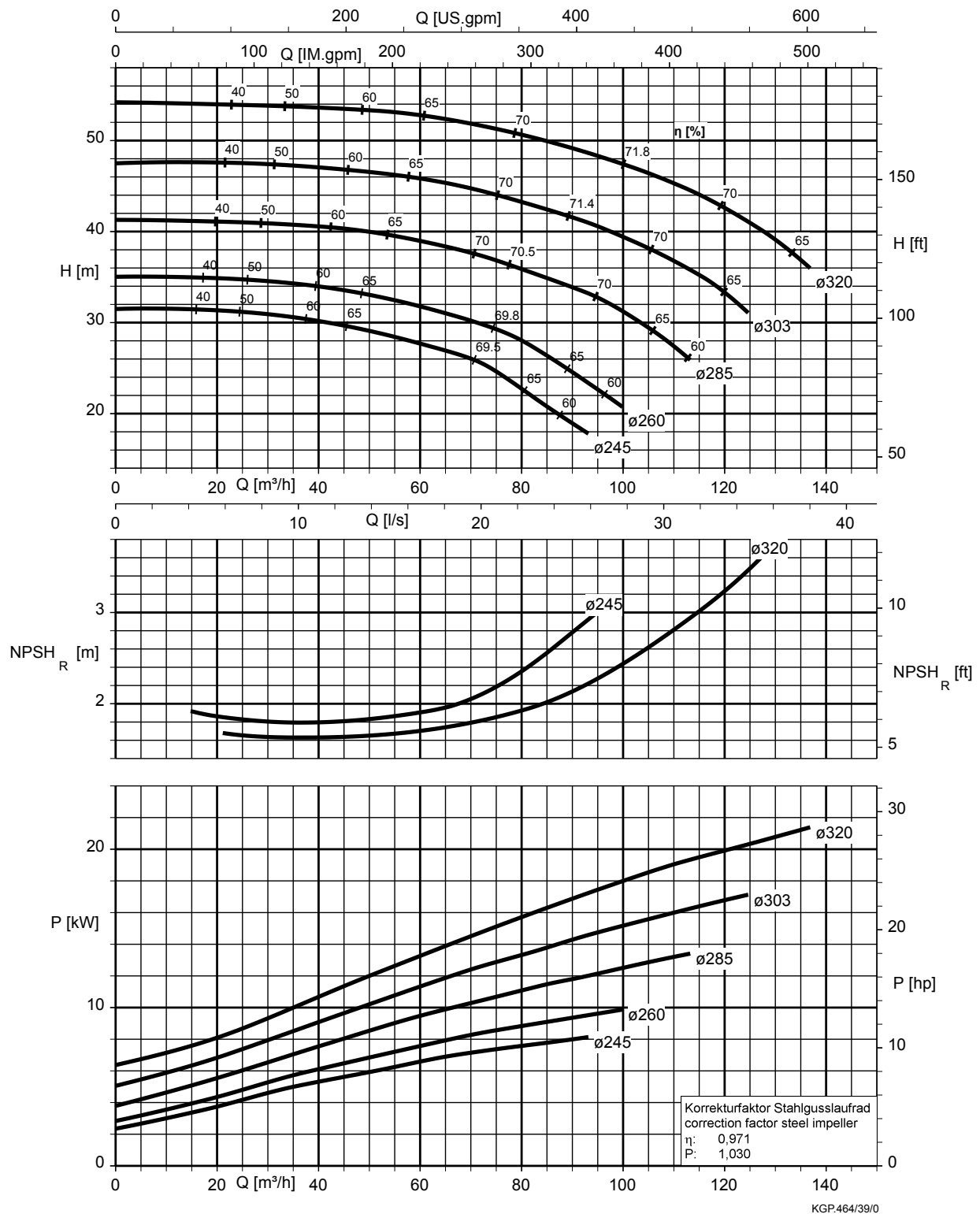
**MegaCPK 100-065-250, n = 1.750 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



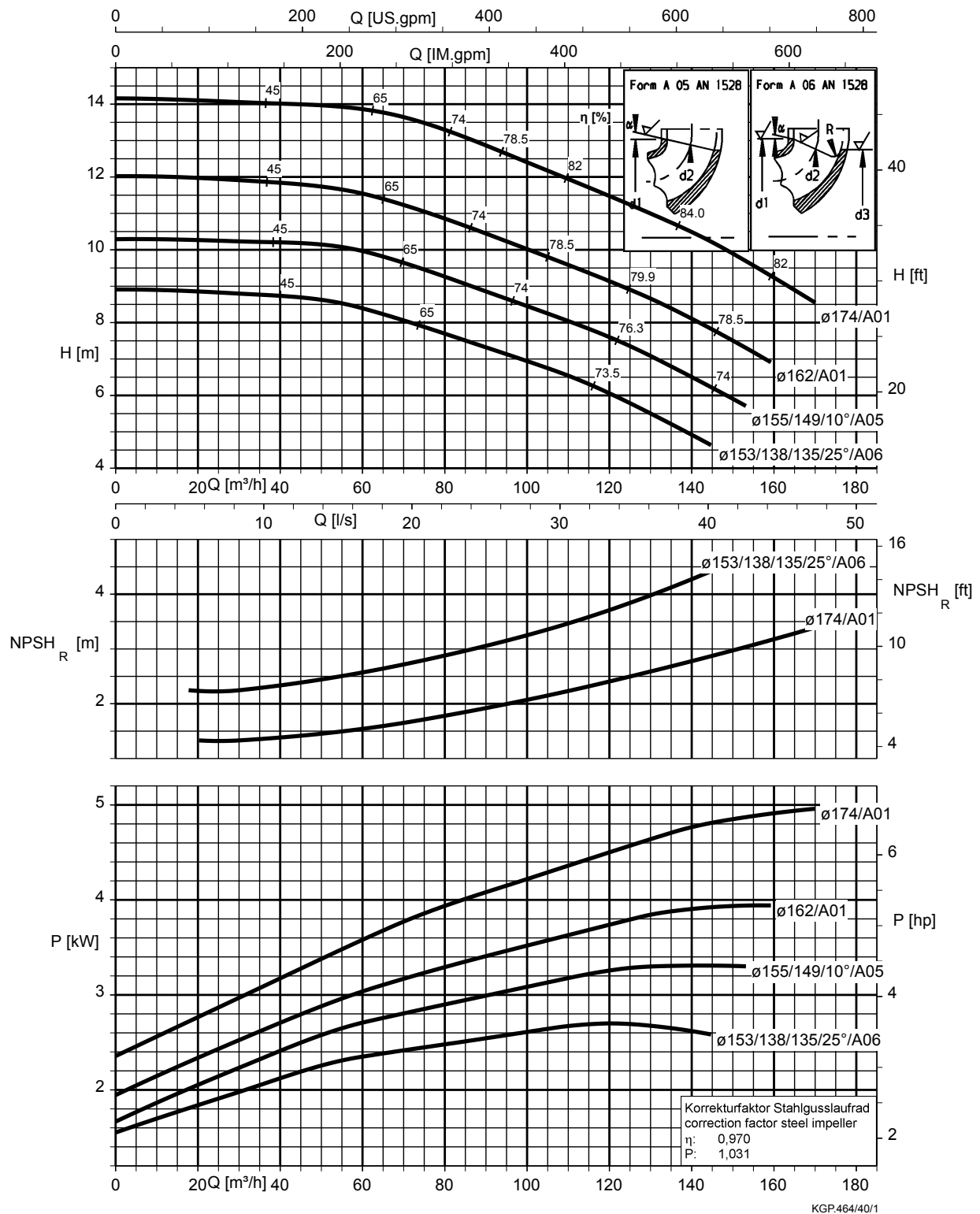
**MegaCPK 100-065-315, n = 1.750 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



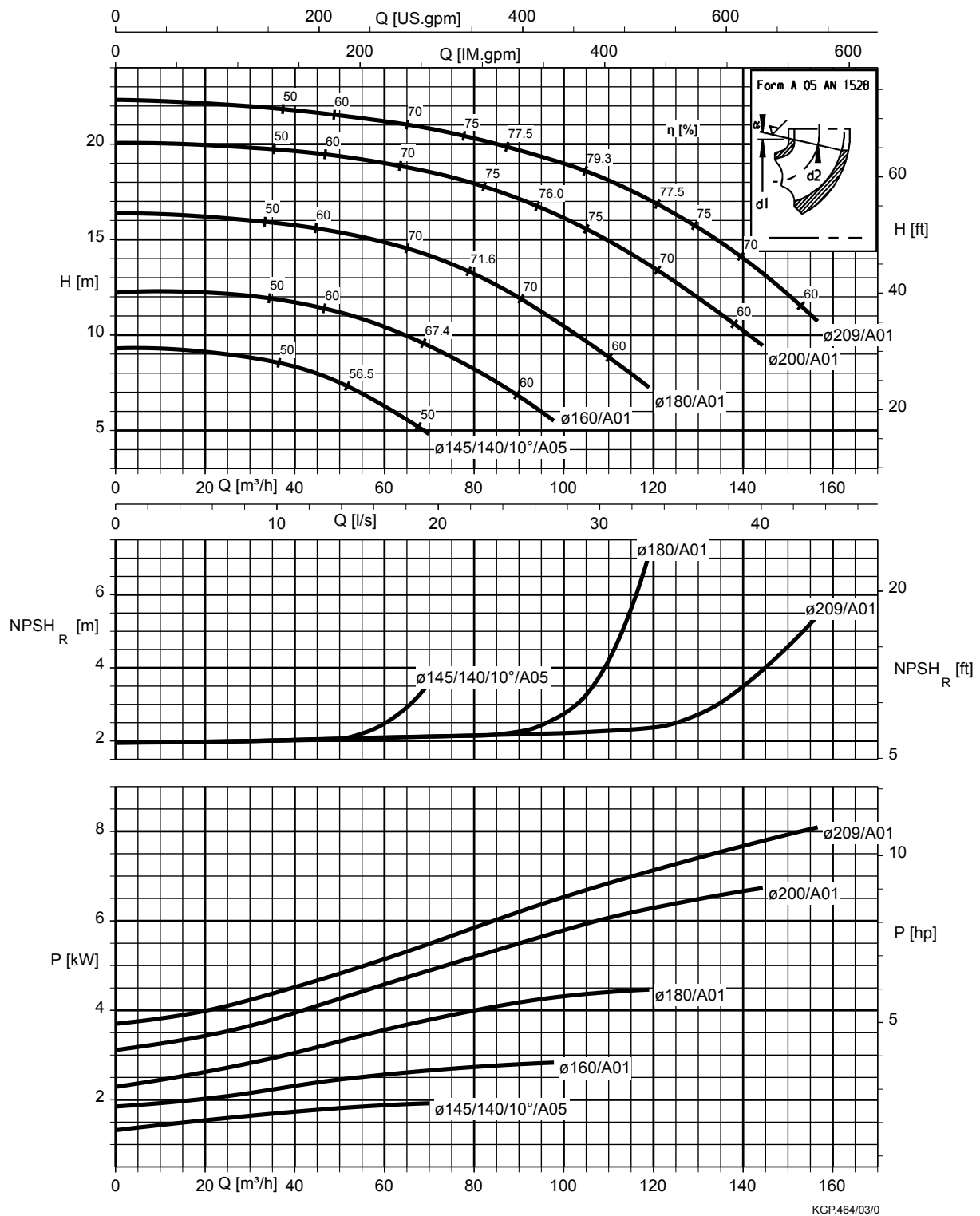
**MegaCPK 125-080-160, n = 1.750 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



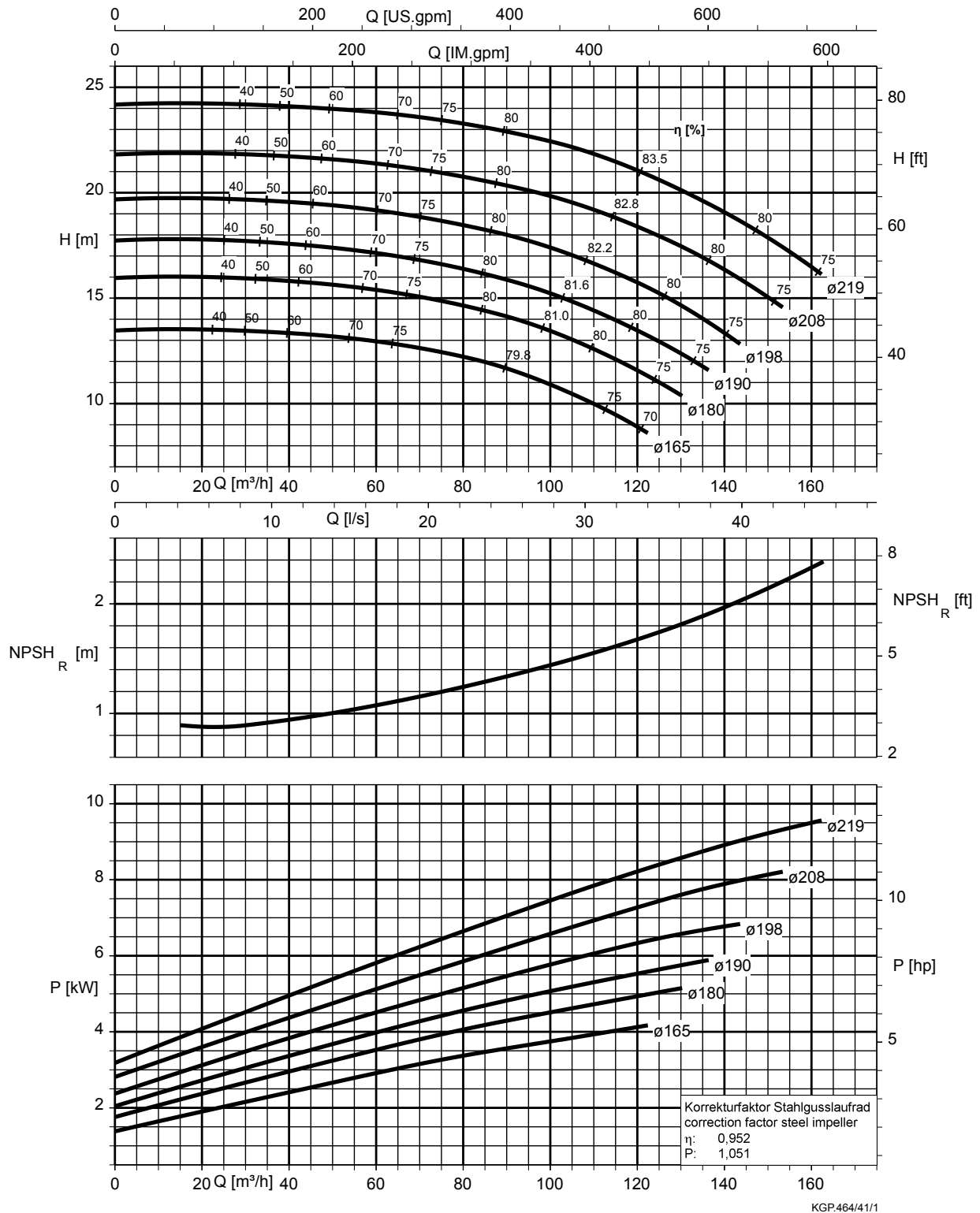
**MegaCPK 125-080-200.1, n = 1750 rpm**

Magnochem, Magnochem-Bloc



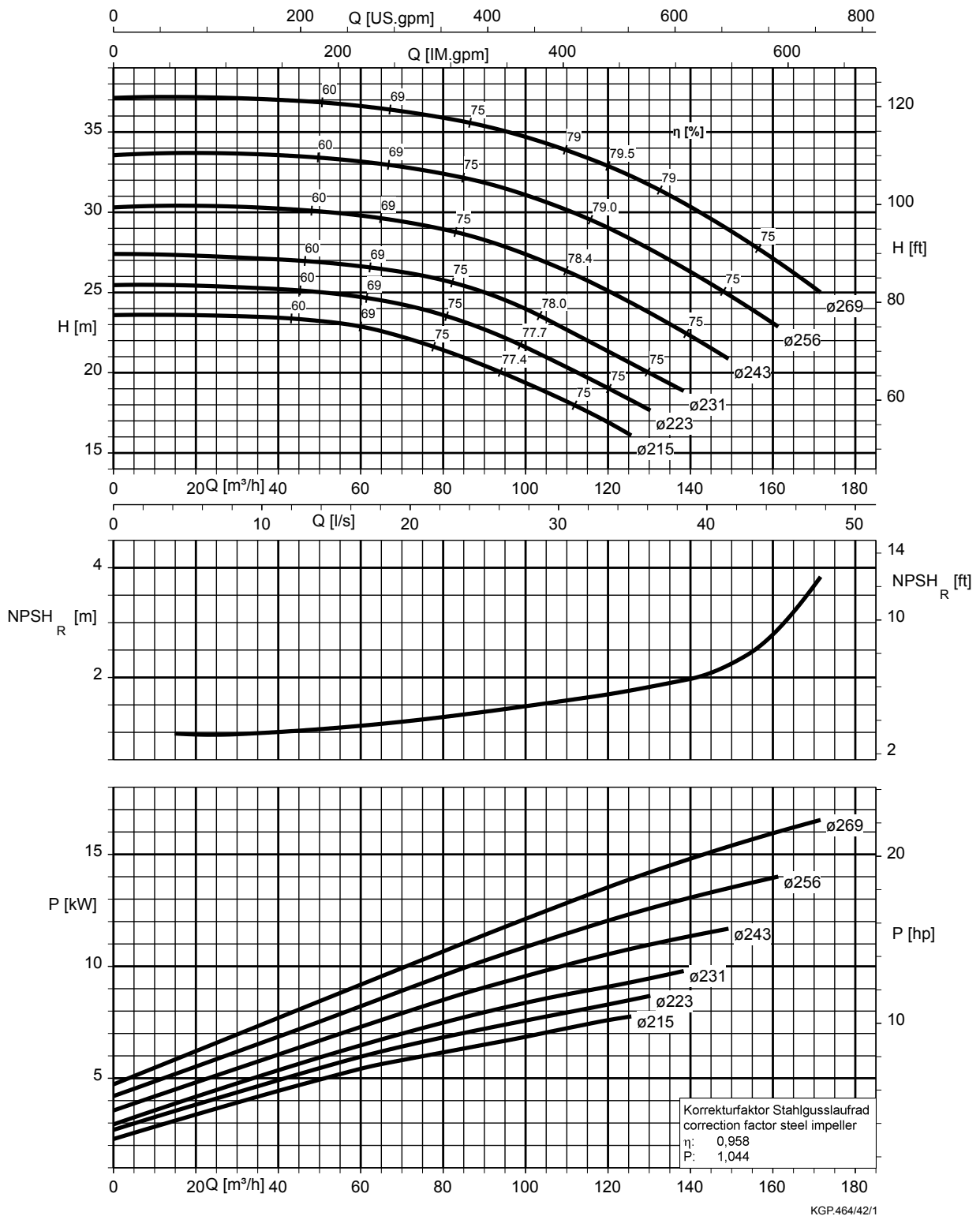
**MegaCPK 125-080-200, n = 1.750 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



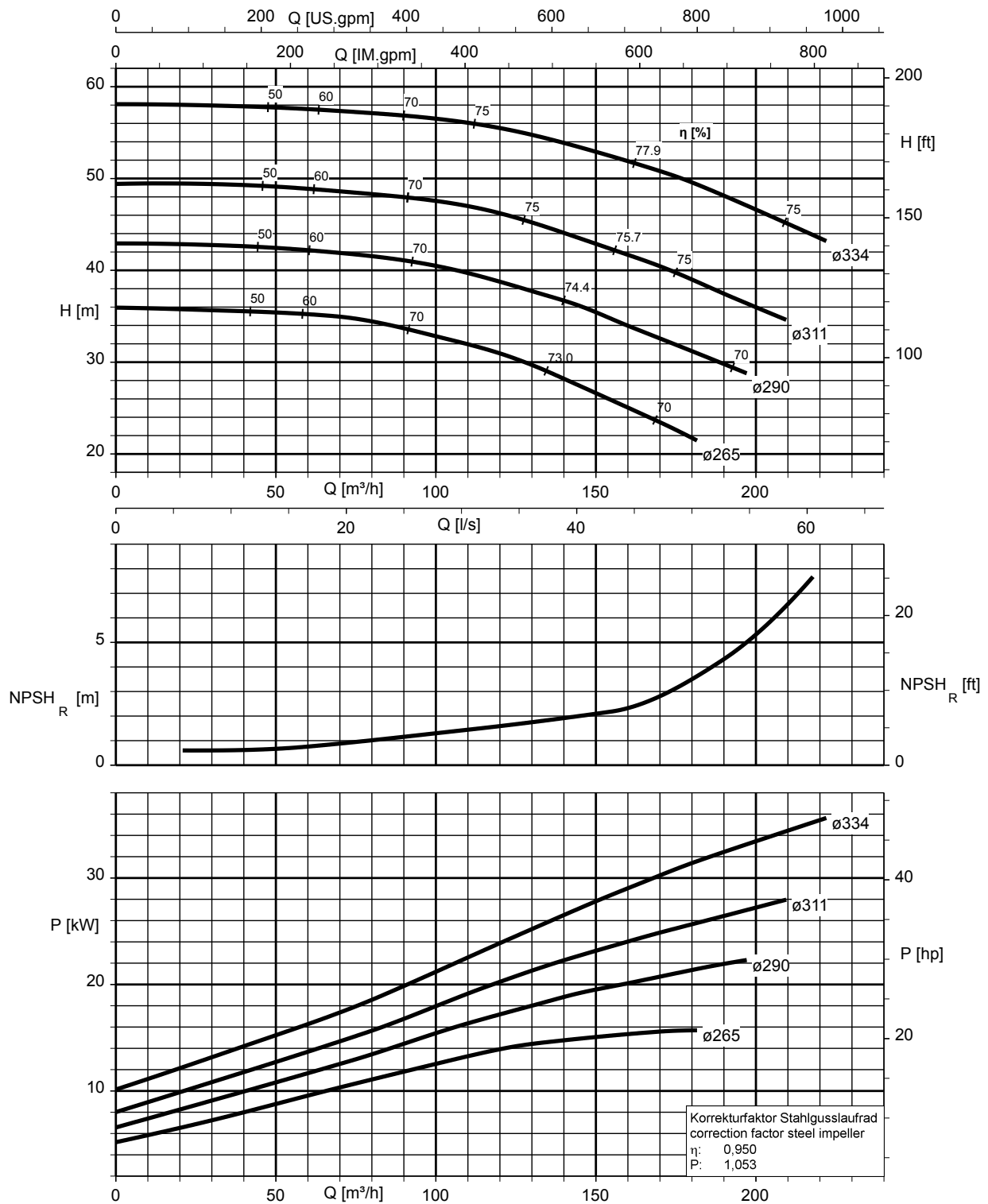
**MegaCPK 125-080-250, n = 1.750 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



**MegaCPK 125-080-315, n = 1.750 rpm**

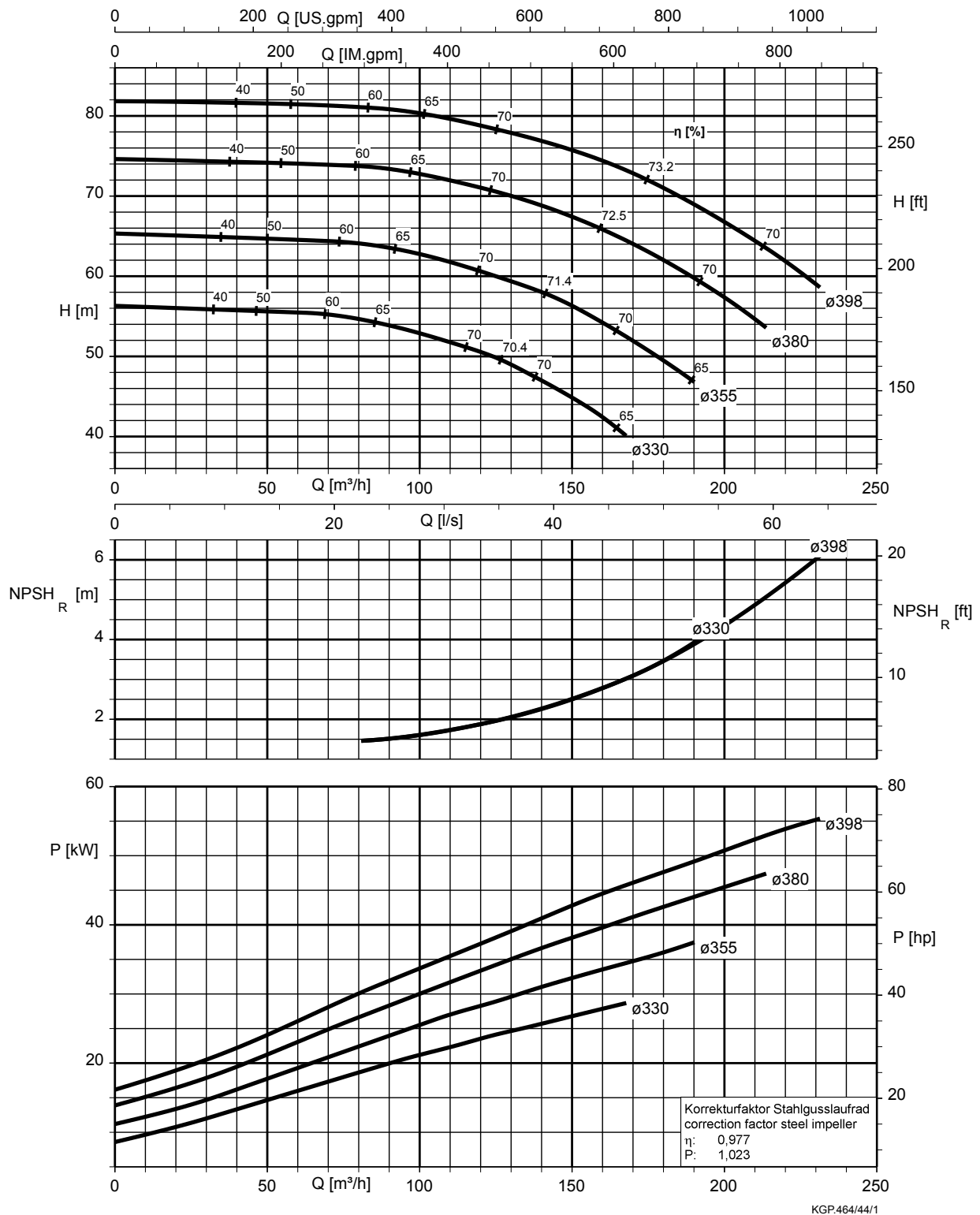
HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc





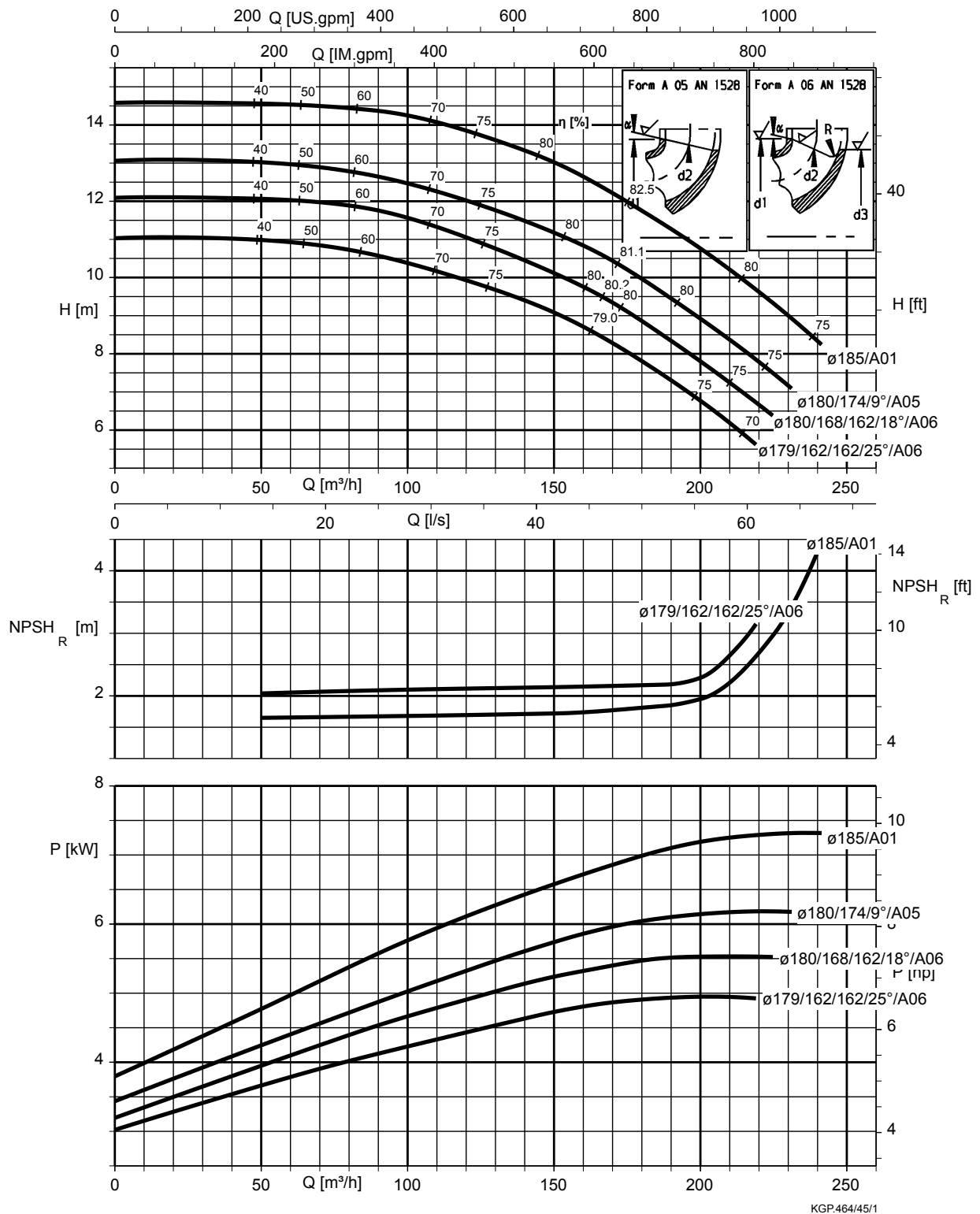
**MegaCPK 125-080-400, n = 1.750 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



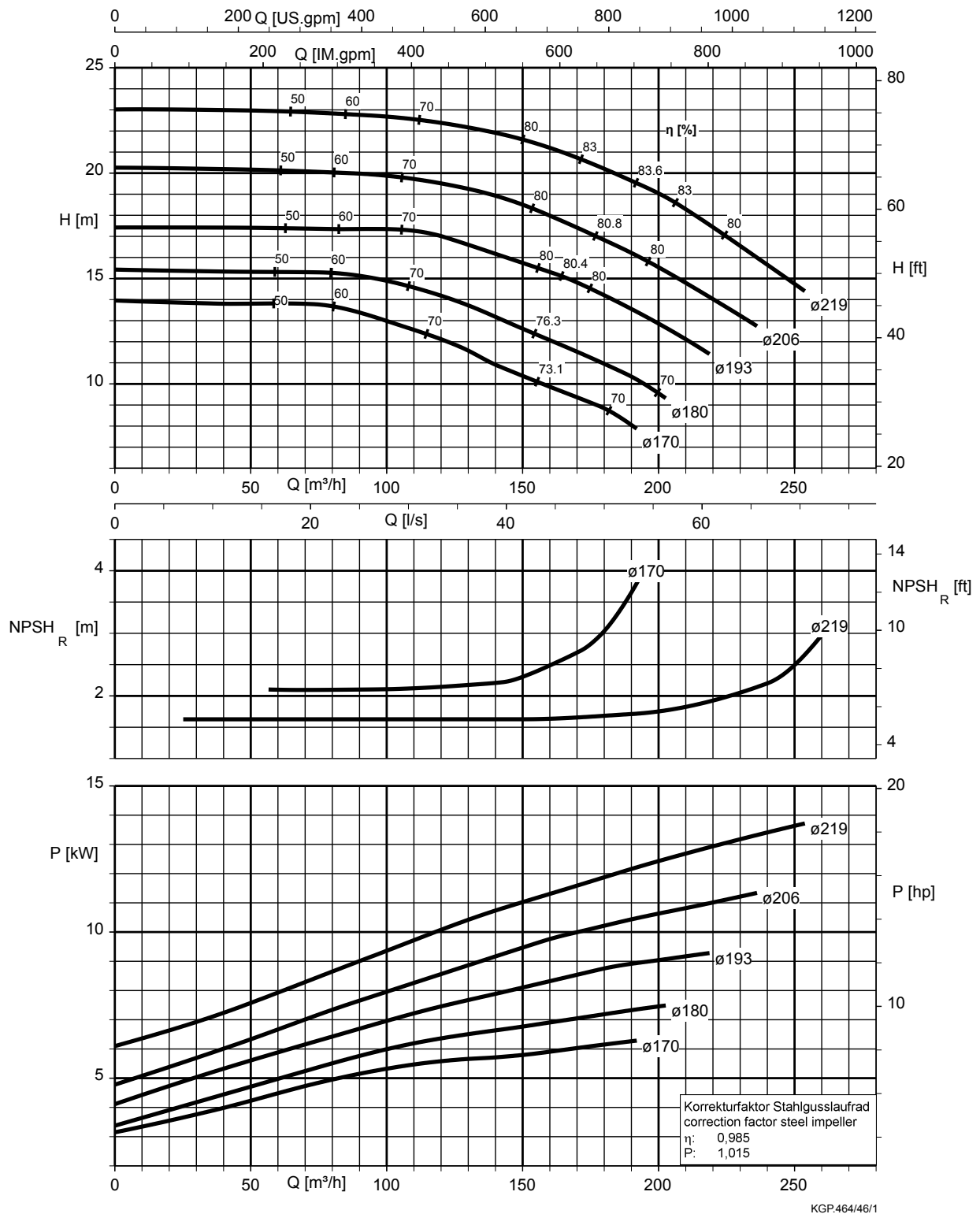
**MegaCPK 125-100-160, n = 1750 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



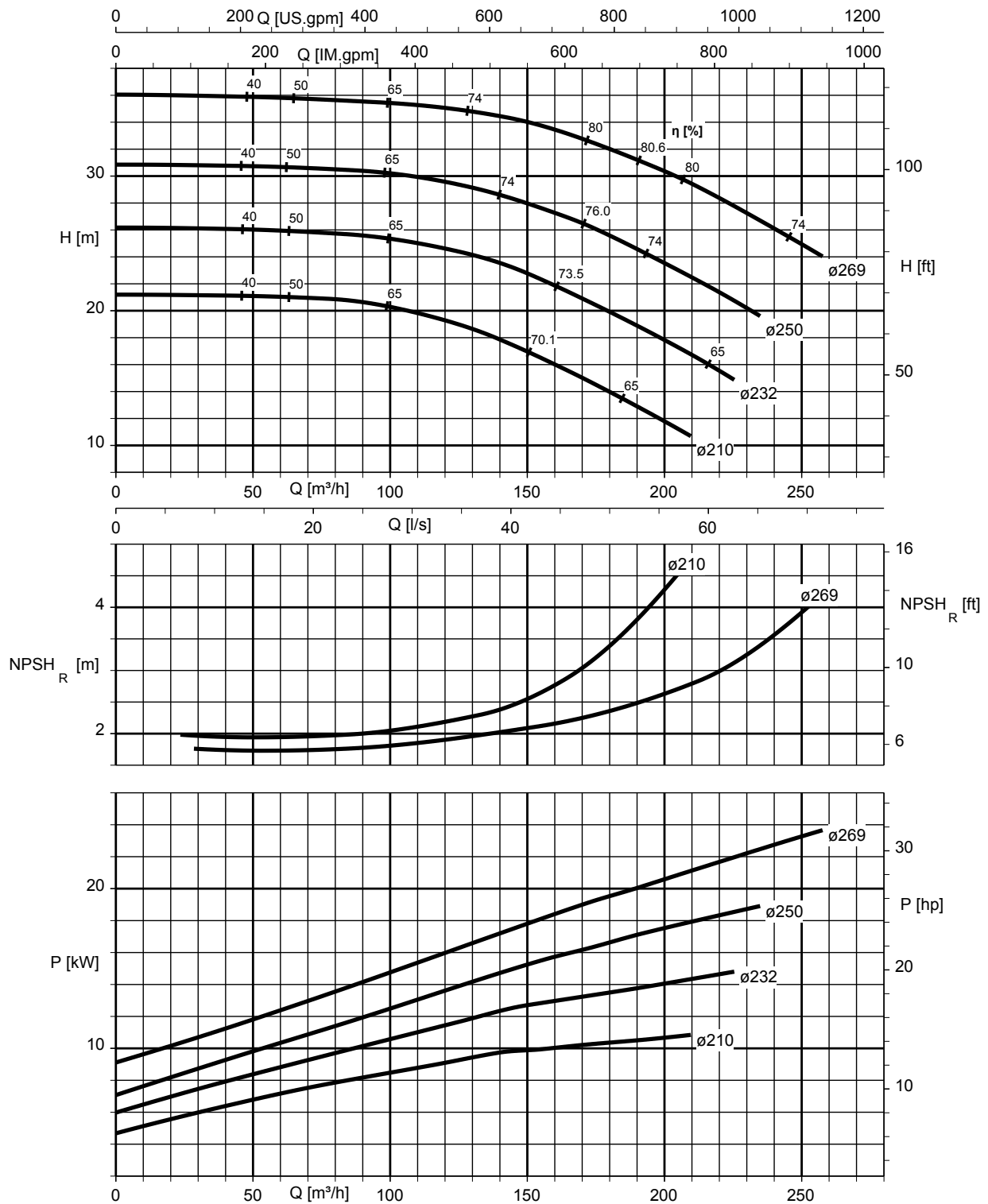
**MegaCPK 125-100-200, n = 1750 r.p.m.**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



**MegaCPK 125-100-250, n = 1750 r.p.m.**

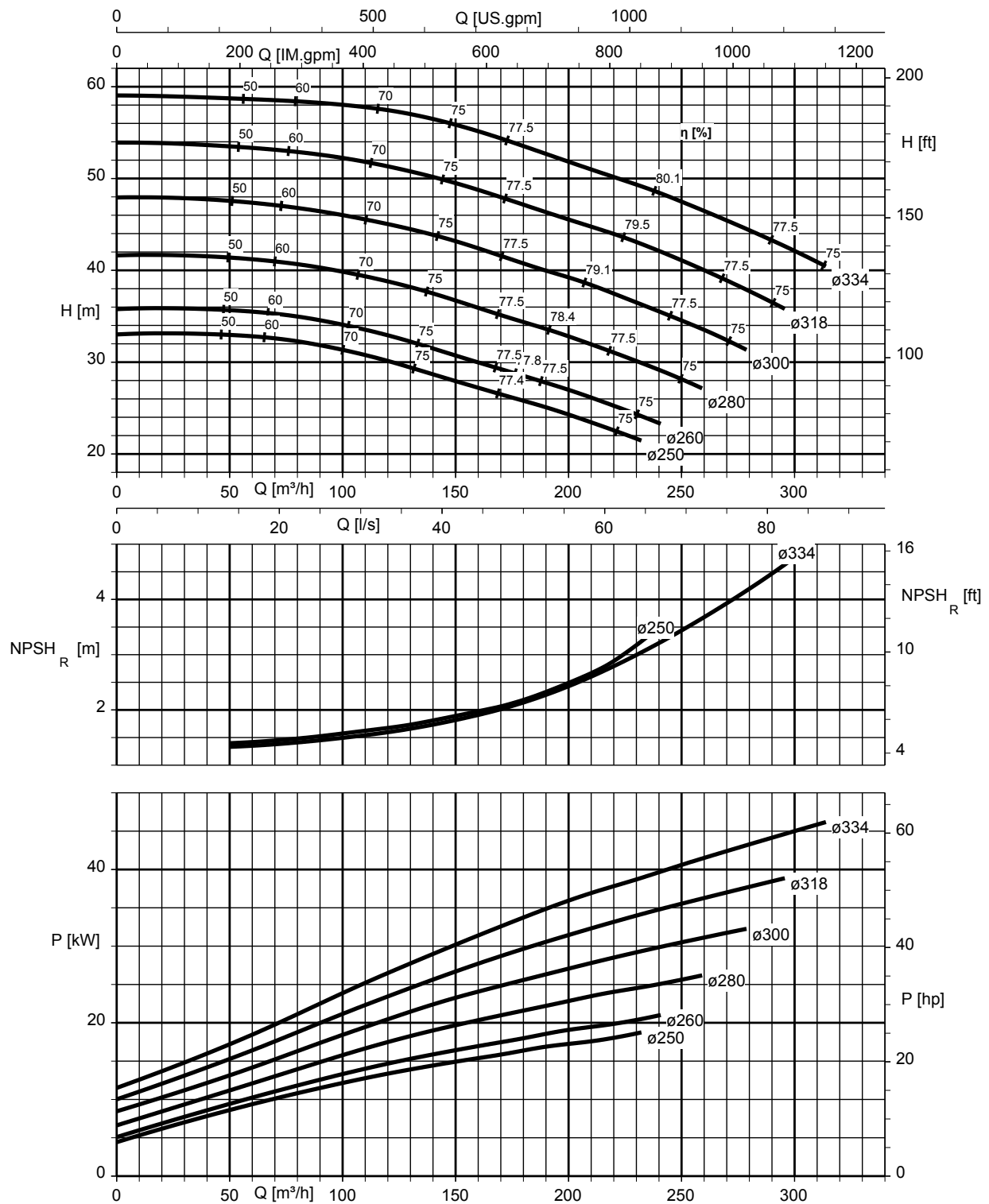
HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



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**MegaCPK 125-100-315, n = 1750 r.p.m.**

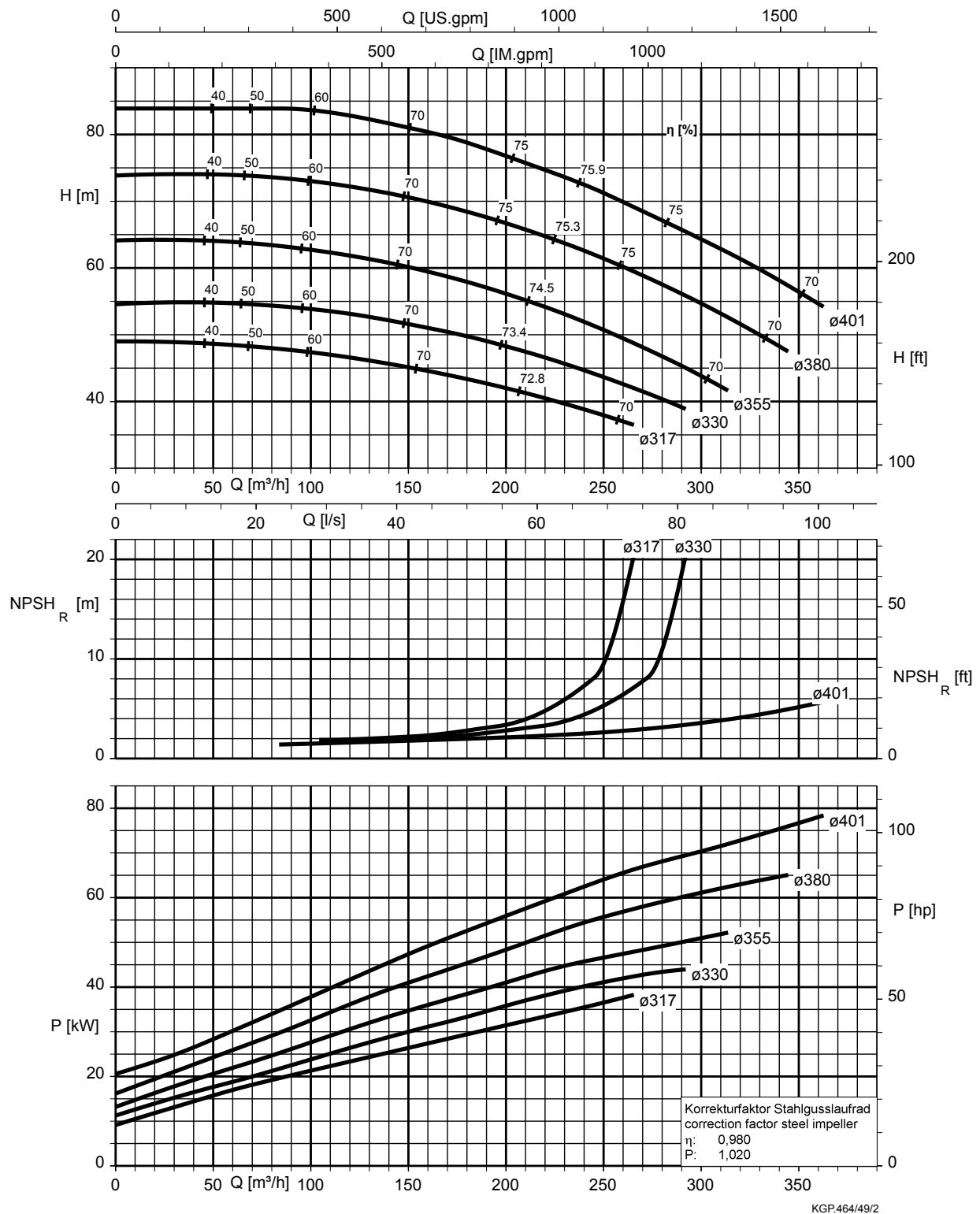
HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



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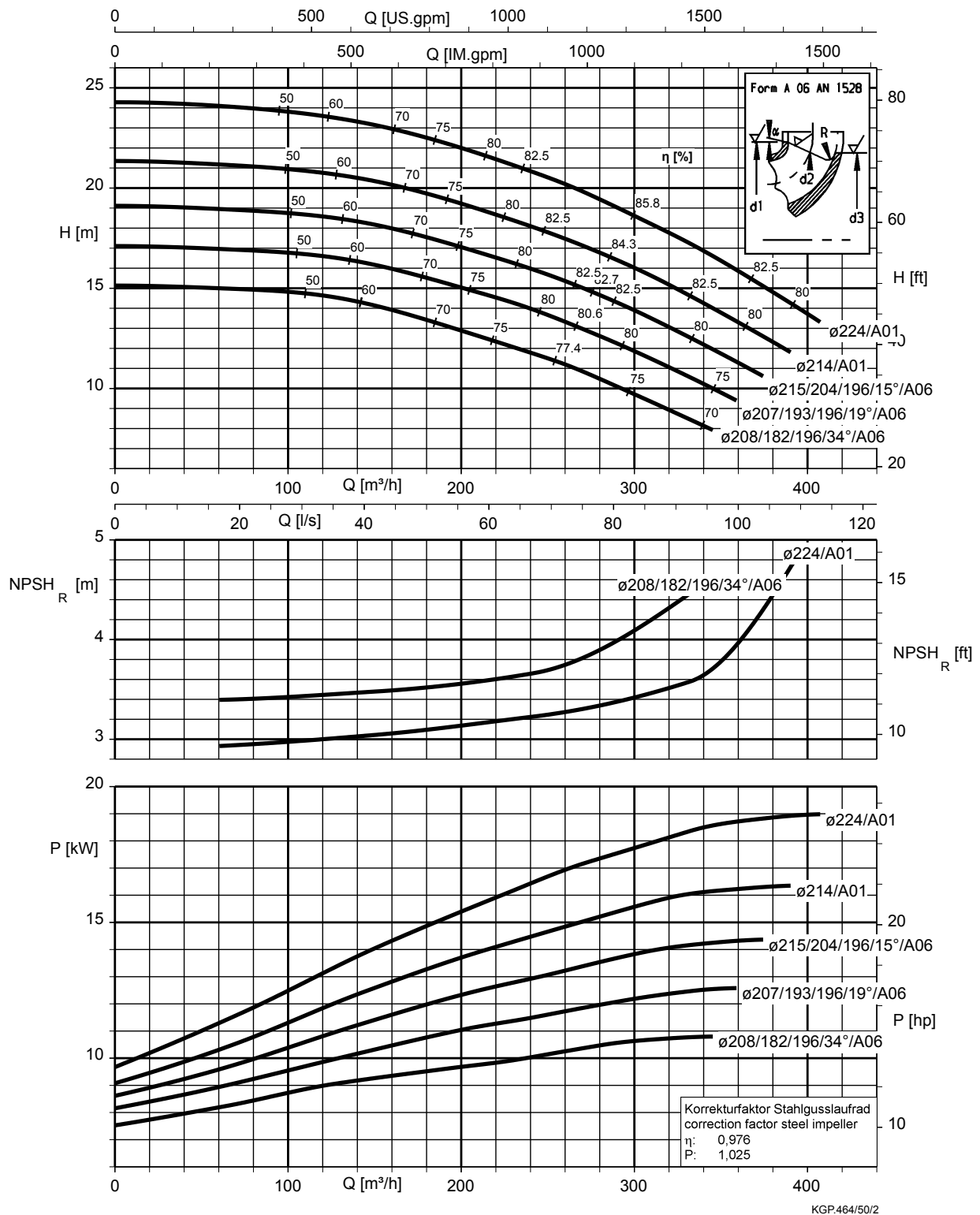
**MegaCPK 125-100-400, n = 1750 r.p.m.**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



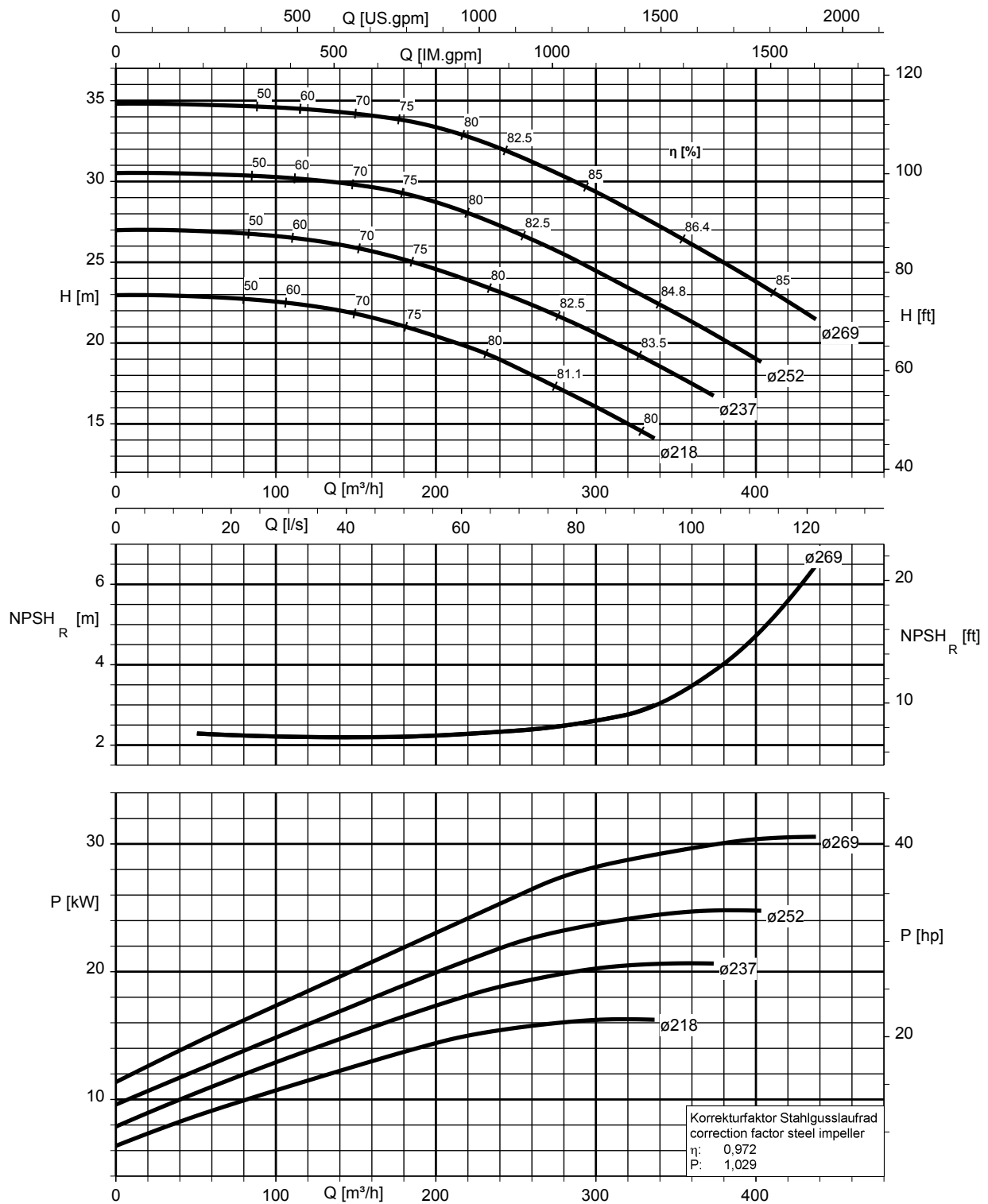
**MegaCPK 150-125-200, n = 1750 r.p.m.**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



**MegaCPK 150-125-250, n = 1750 r.p.m.**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc

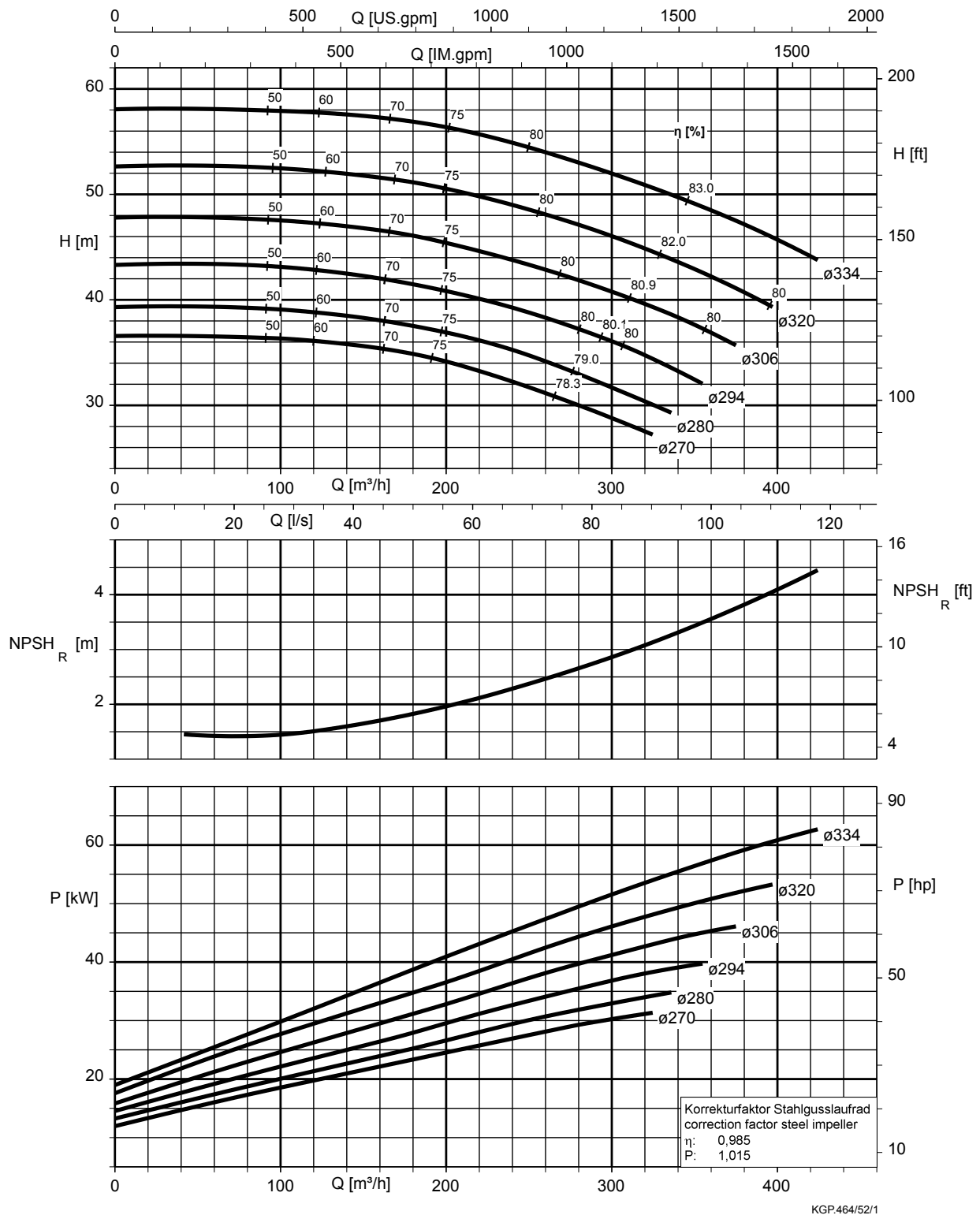


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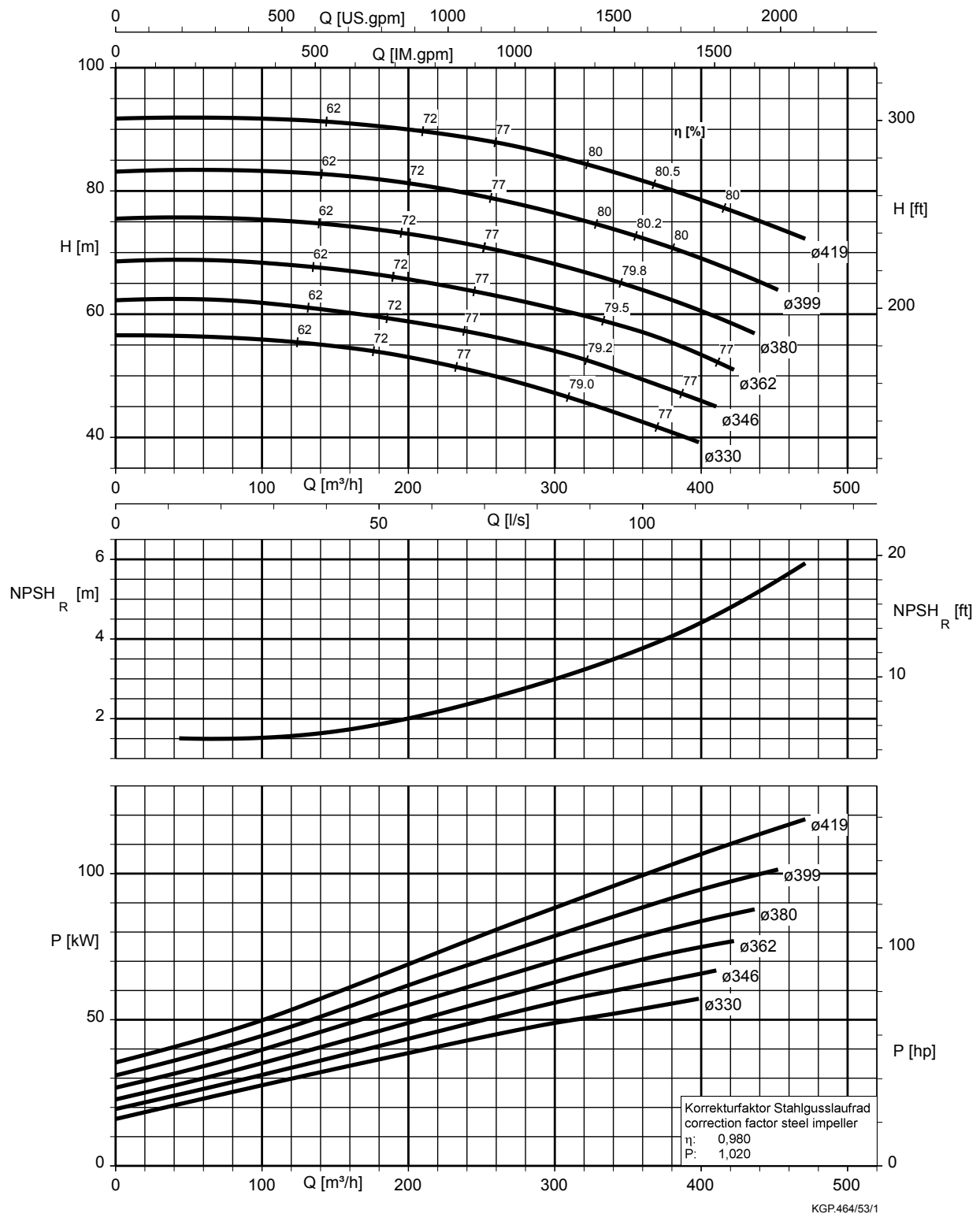
**MegaCPK 150-125-315, n = 1750 r.p.m.**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



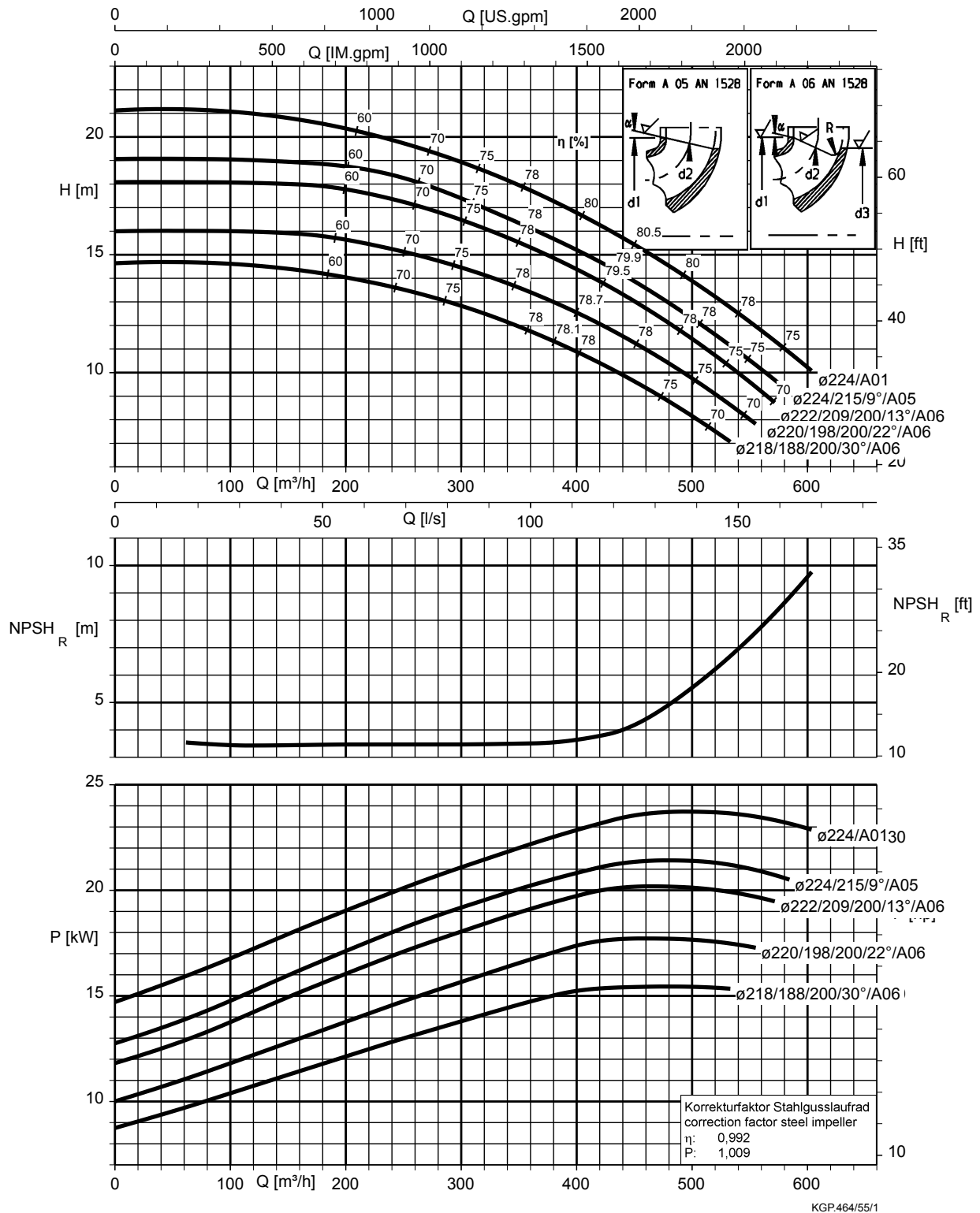
**MegaCPK 150-125-400, n = 1750 r.p.m.**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



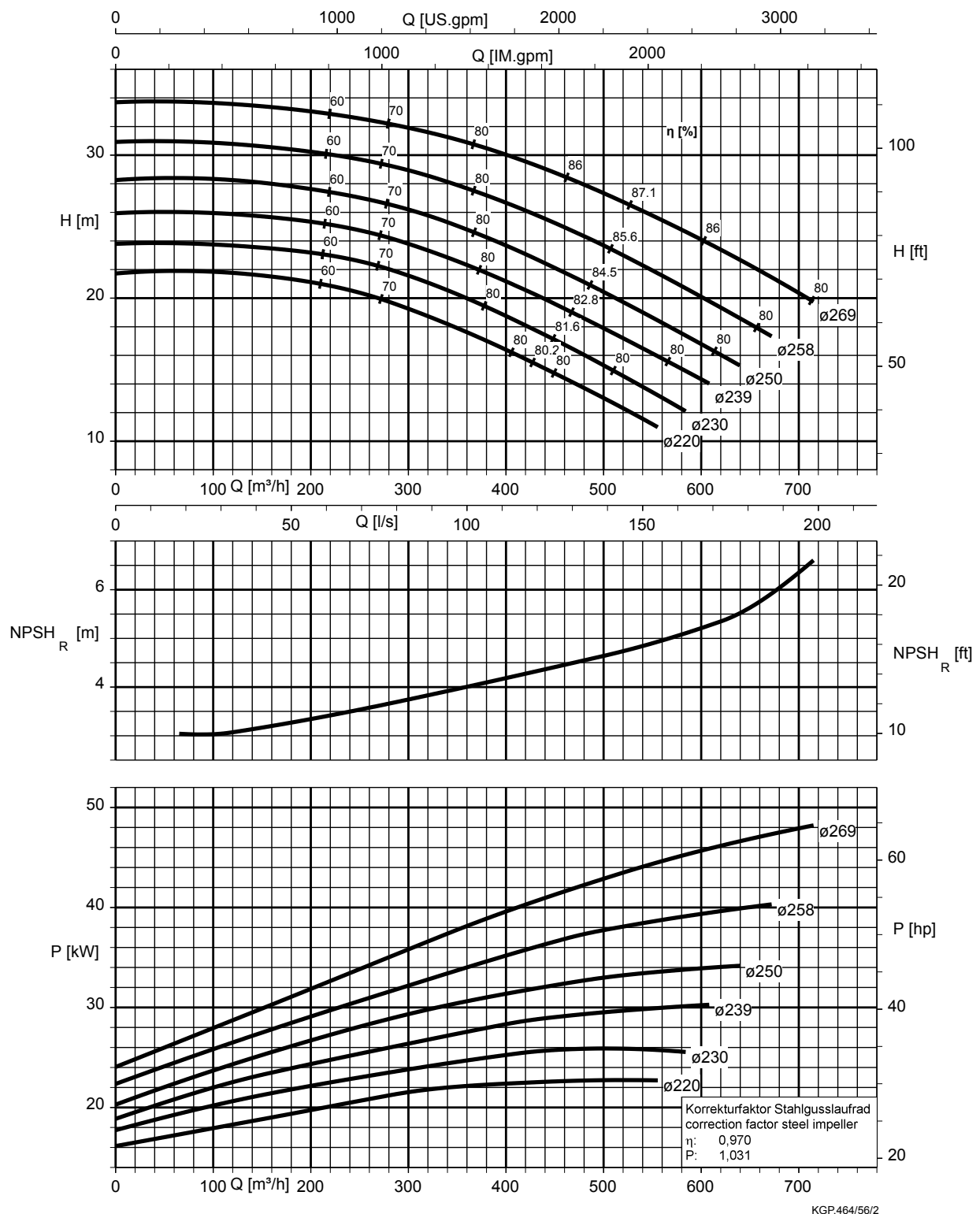
**MegaCPK 200-150-200, n = 1750 r.p.m.**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



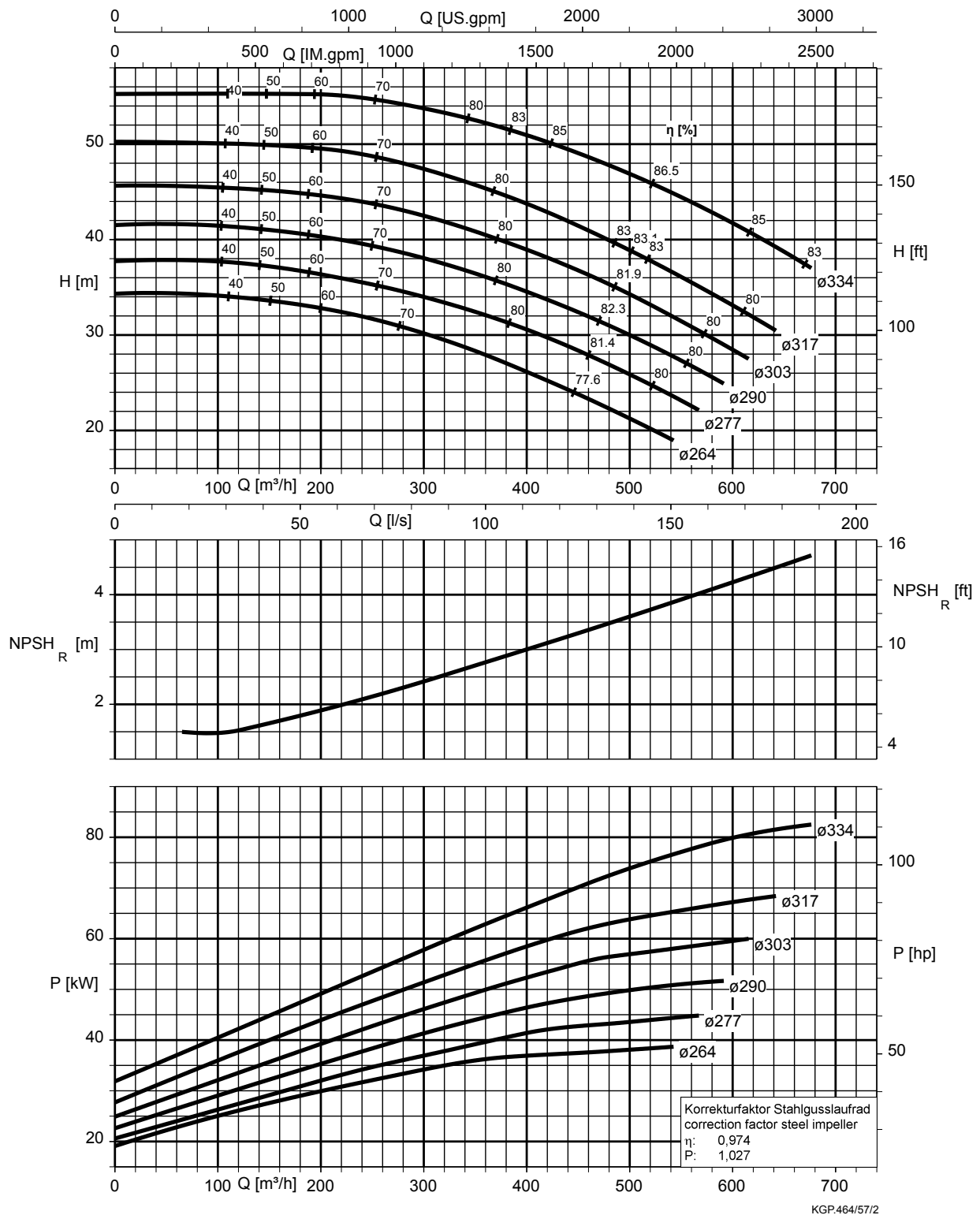
**MegaCPK 200-150-250, n = 1750 r.p.m.**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



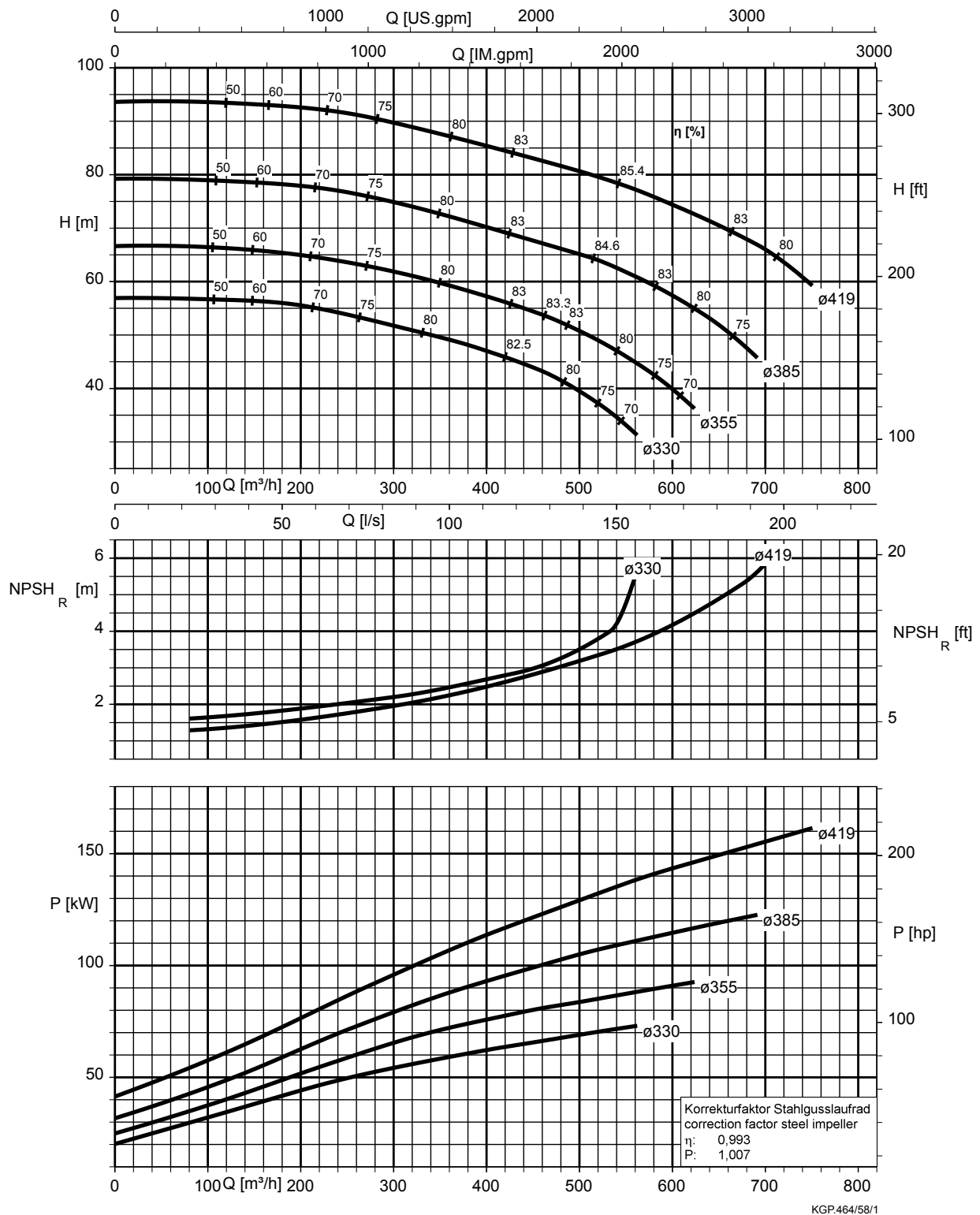
**MegaCPK 200-150-315, n = 1750 r.p.m.**

HPK-L, Magnochem, Meganorm



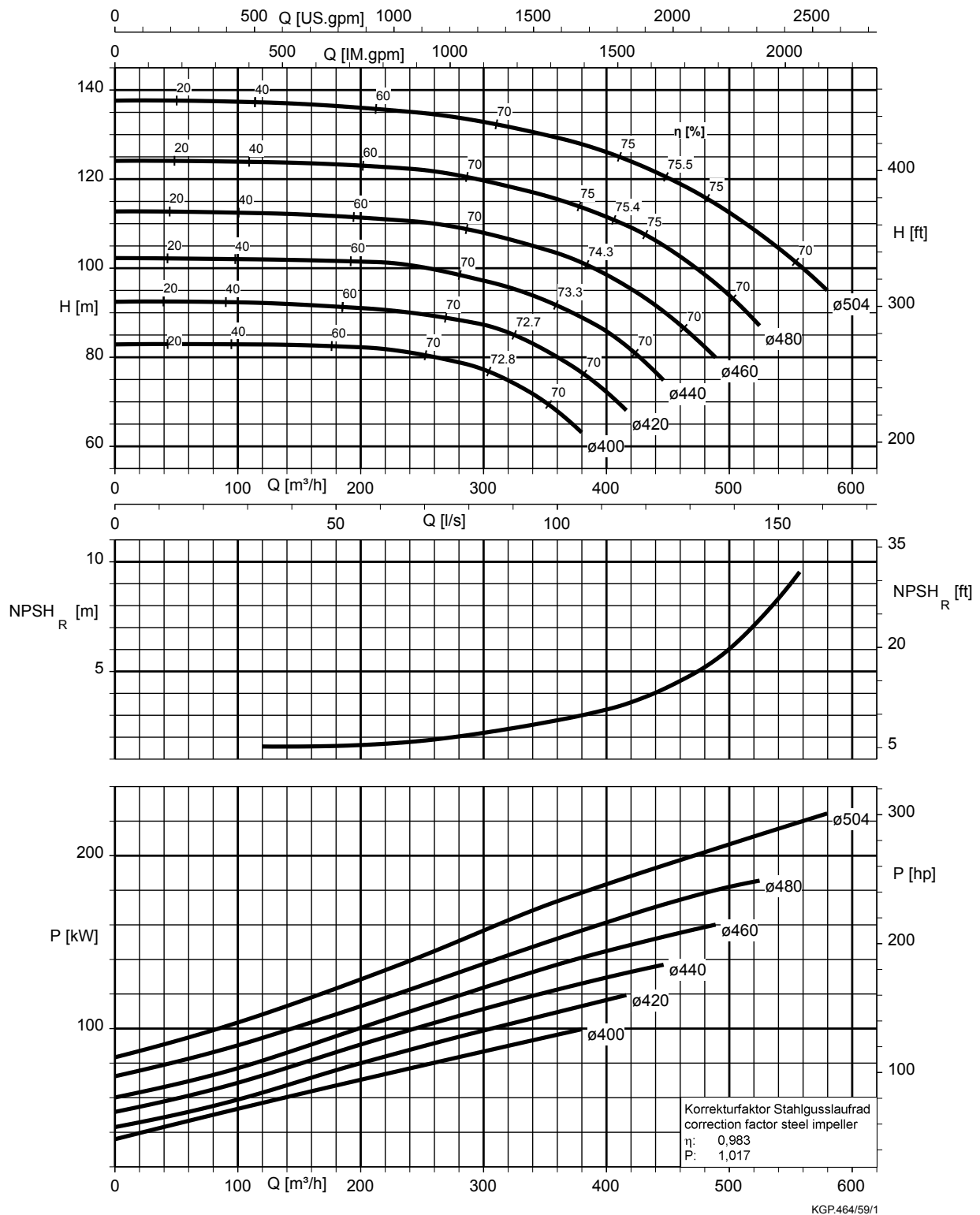
**MegaCPK 200-150-400, n = 1750 r.p.m.**

HPK-L, Magnochem, Meganorm



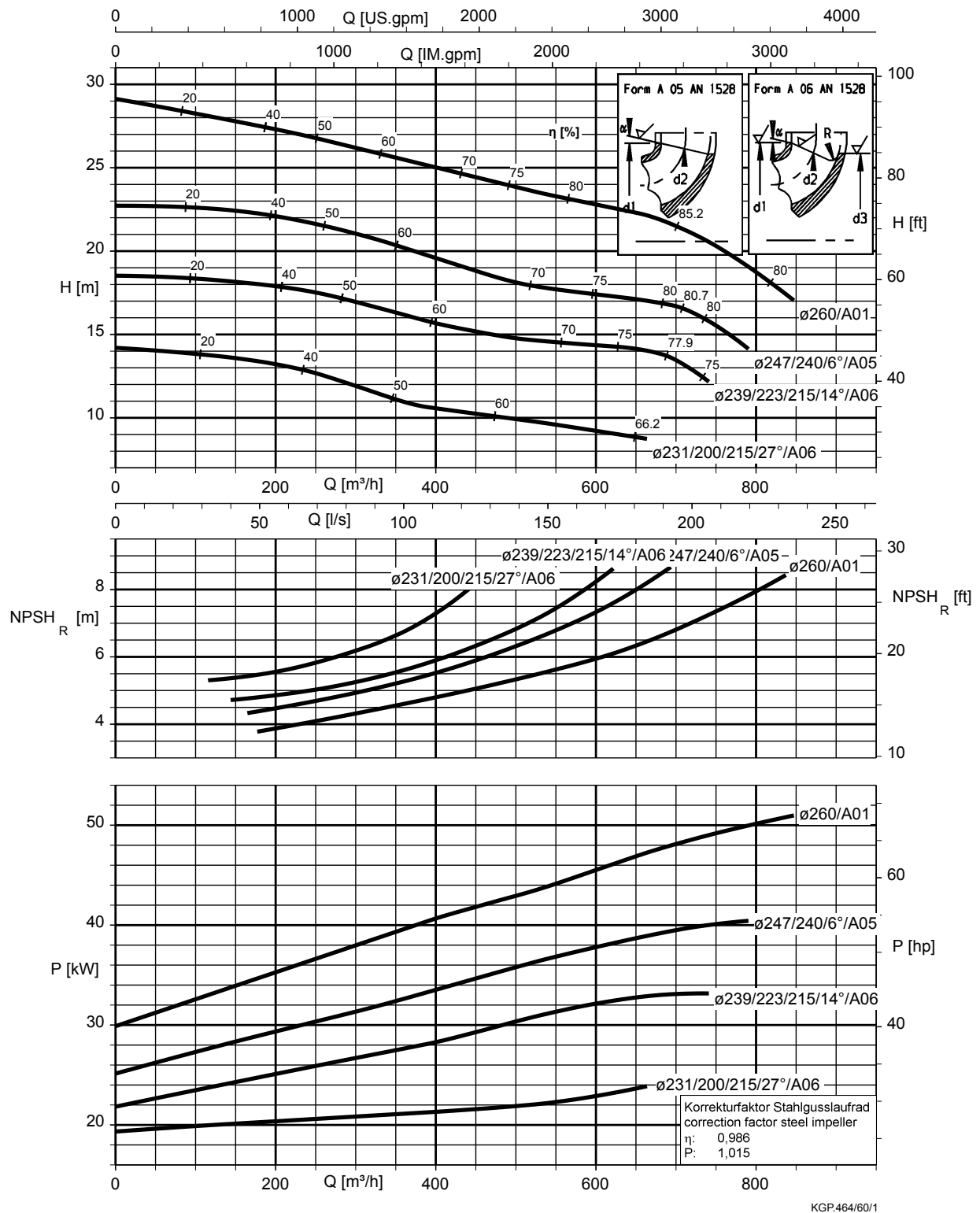
**MegaCPK 200-150-500, n = 1750 r.p.m.**

HPK-L, Magnochem, Meganorm



**MegaCPK 200-200-250, n = 1750 r.p.m.**

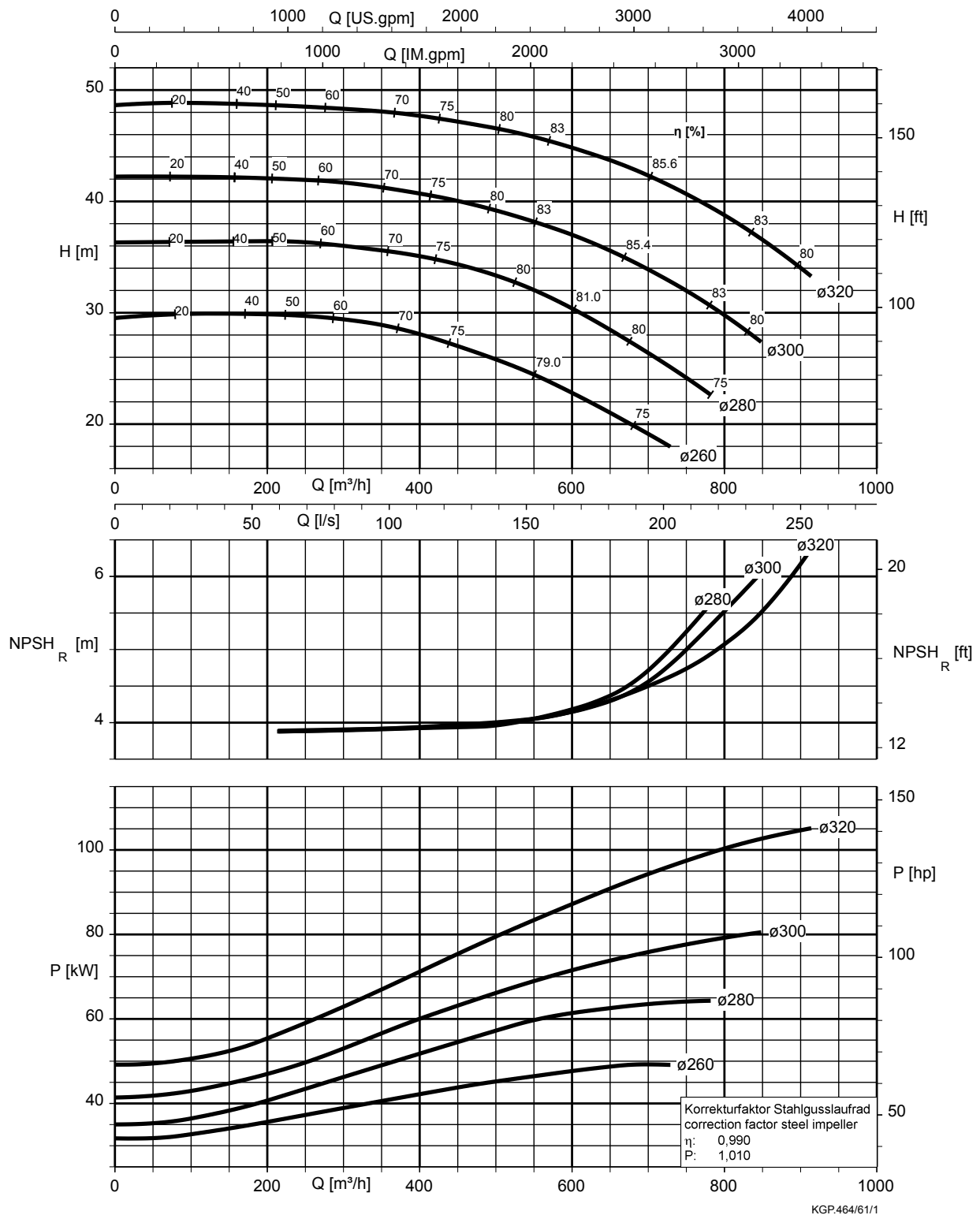
HPK-L, Magnochem, Meganorm





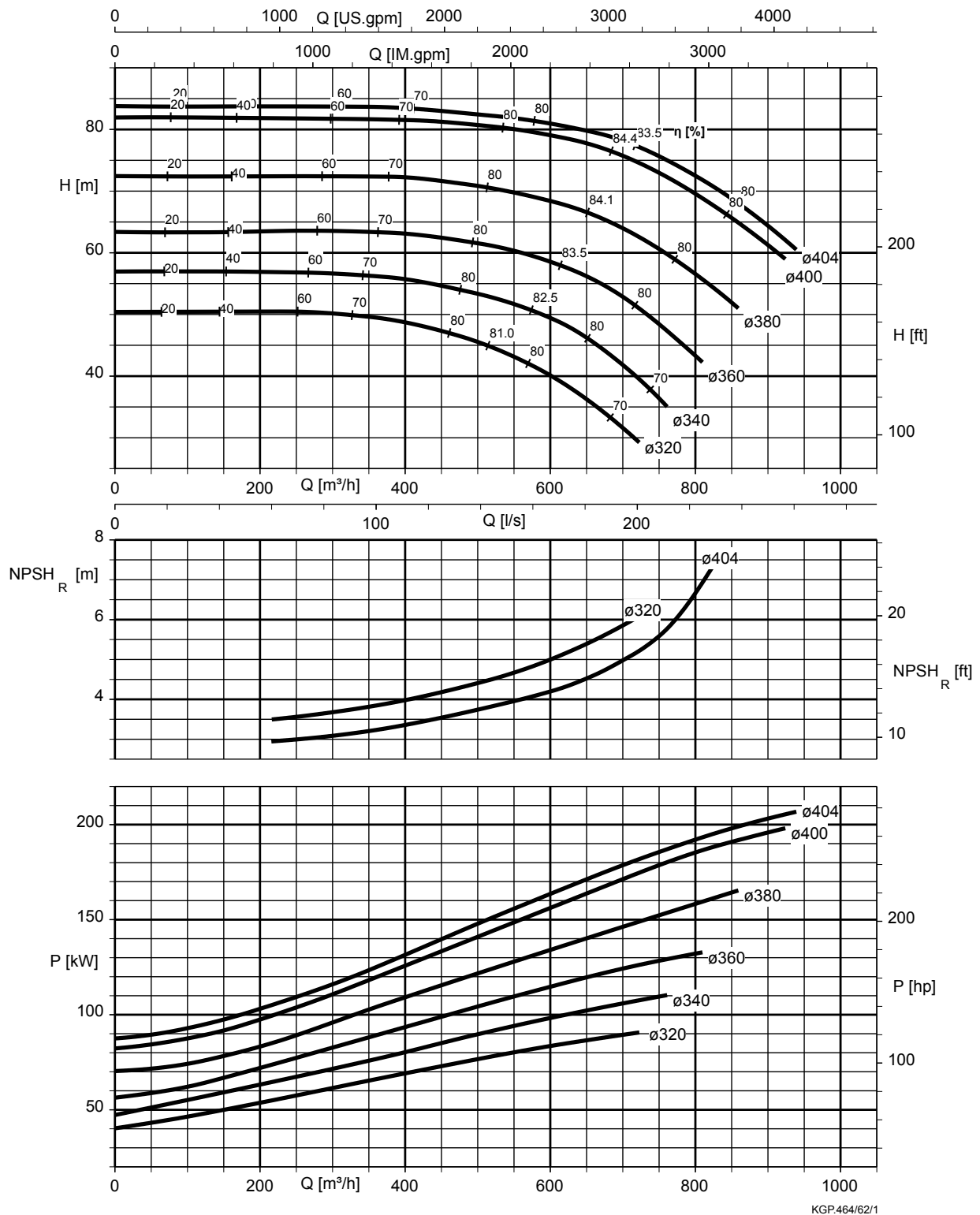
**MegaCPK 250-200-315, n = 1750 r.p.m.**

HPK-L, Magnochem, Meganorm



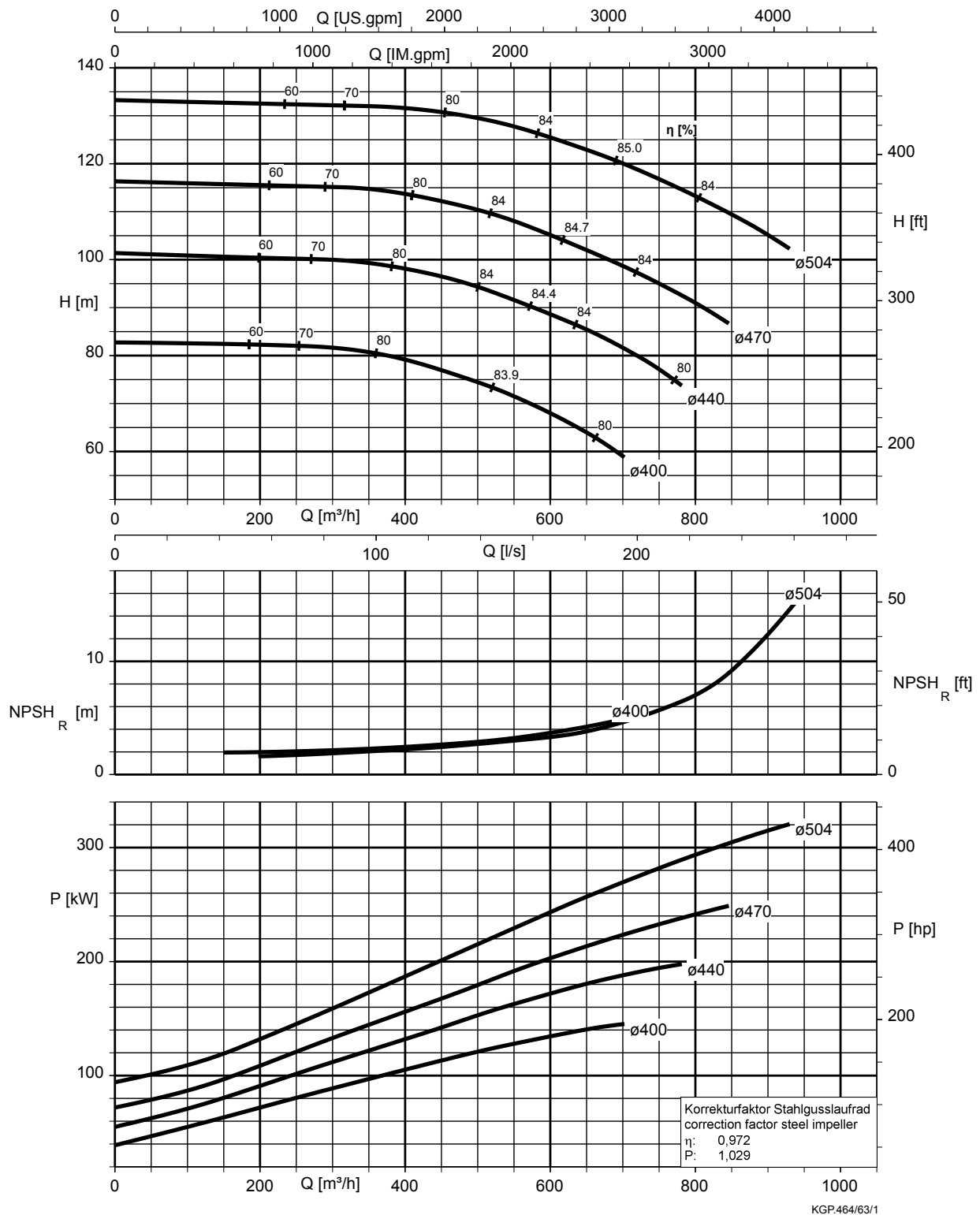
**MegaCPK 250-200-400, n = 1750 r.p.m.**

HPK-L, Magnochem, Meganorm



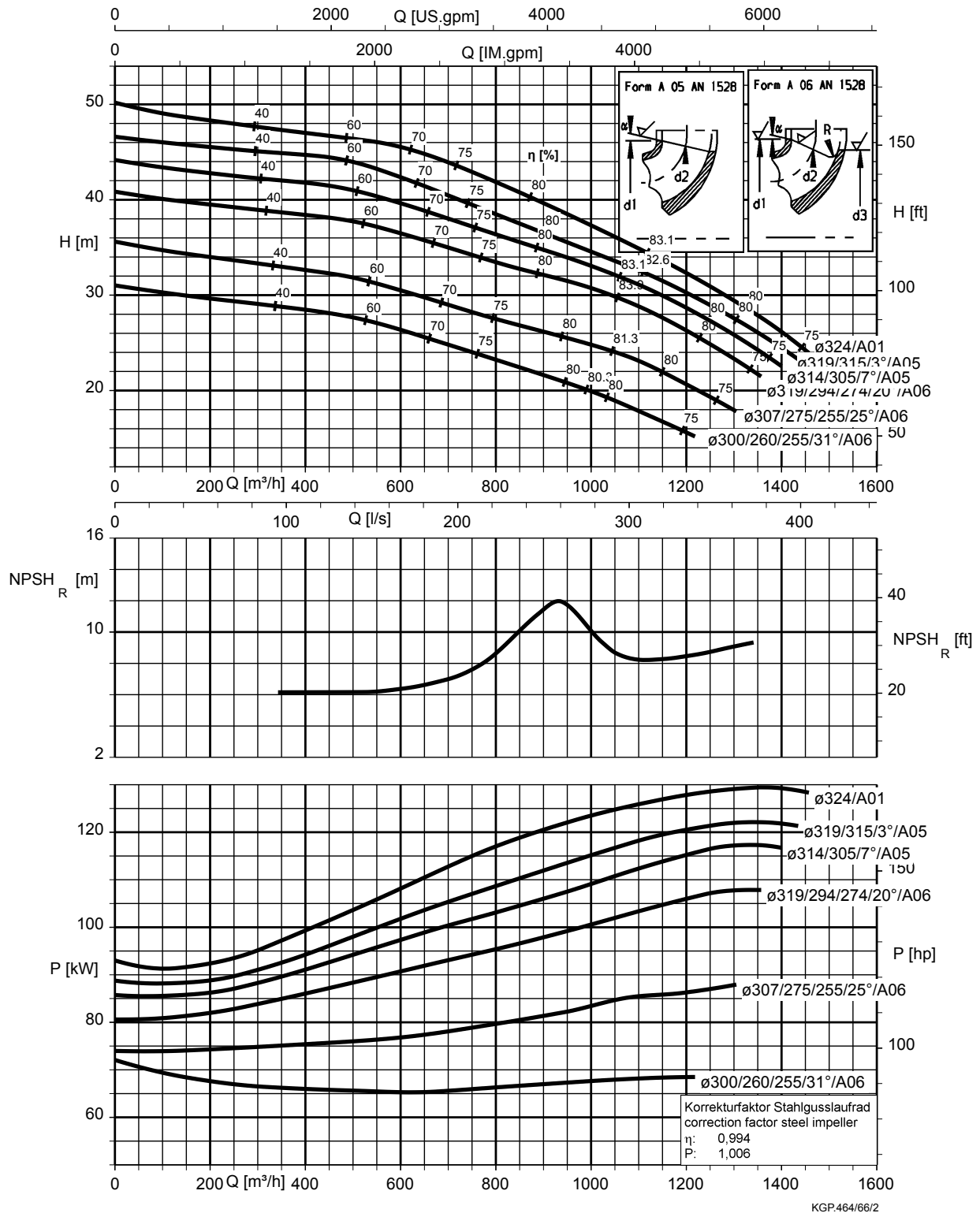
**MegaCPK 250-200-500, n = 1750 rpm**

HPK-L, Magnochem, Meganorm



**MegaCPK 300-250-315,  $n = 1750$  r.p.m.**

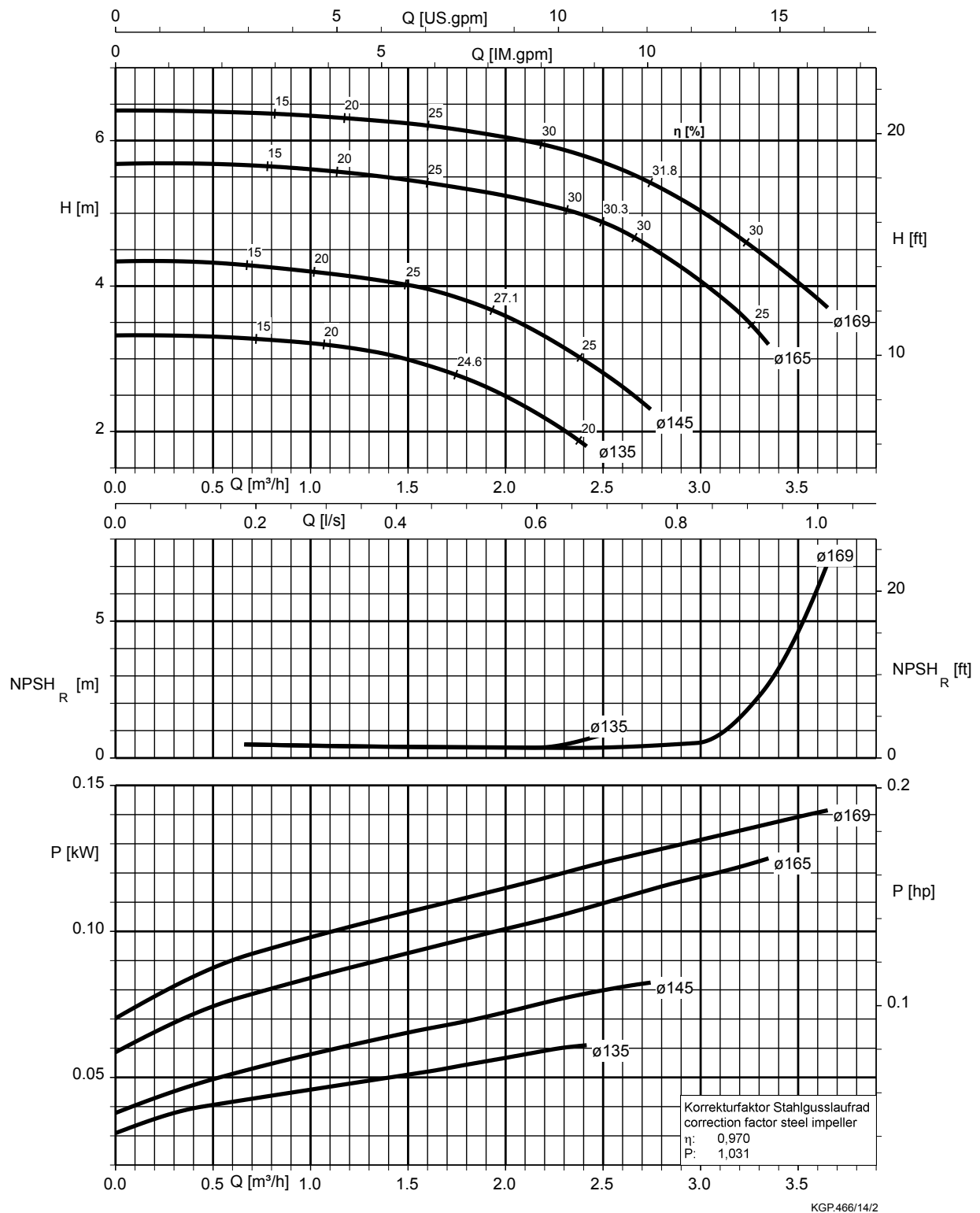
HPK-L, Magnochem, Meganorm



**n = 1160 rpm**

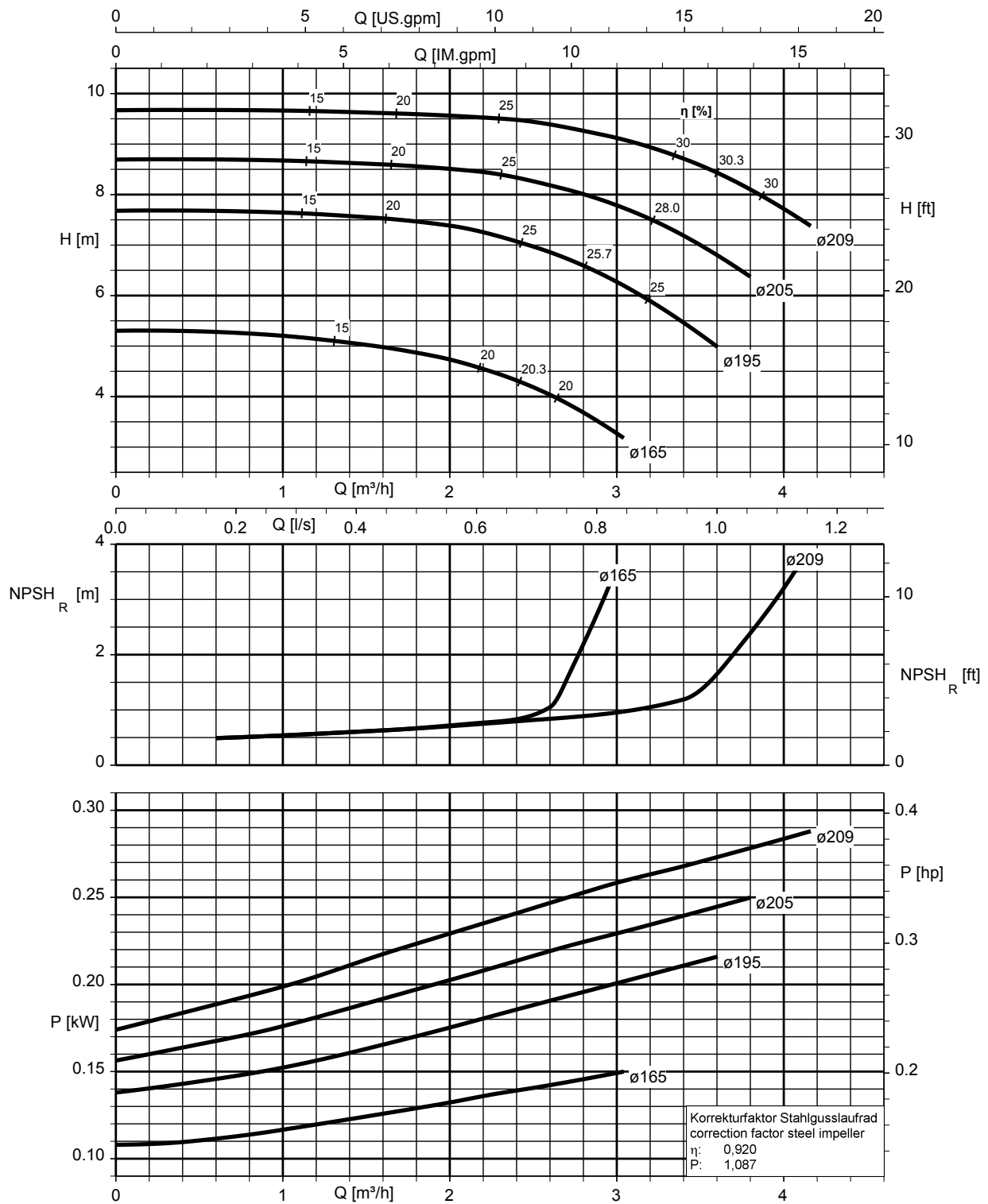
**MegaCPK 040-025-160, n = 1.160 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



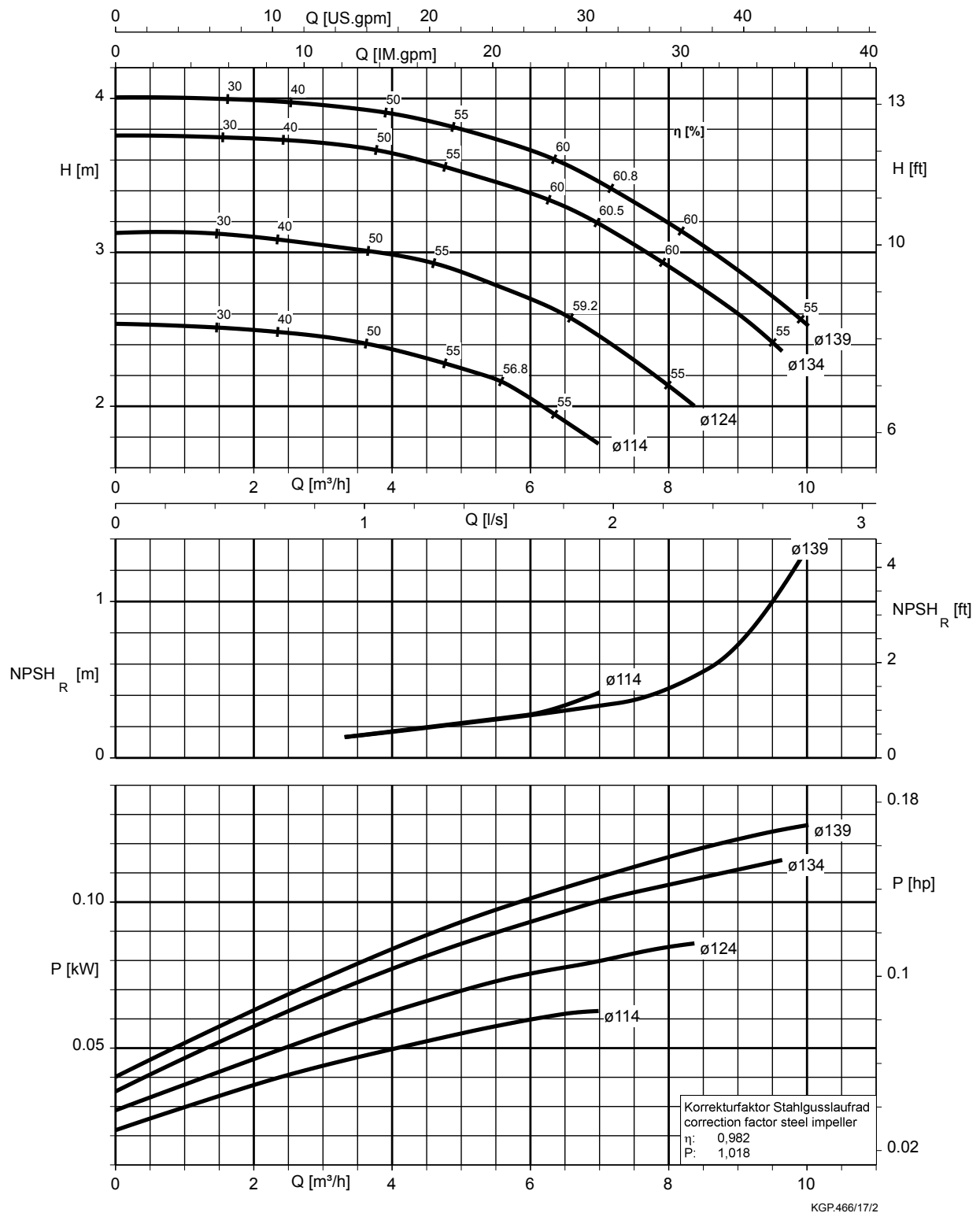
**MegaCPK 040-025-200, n = 1.160 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



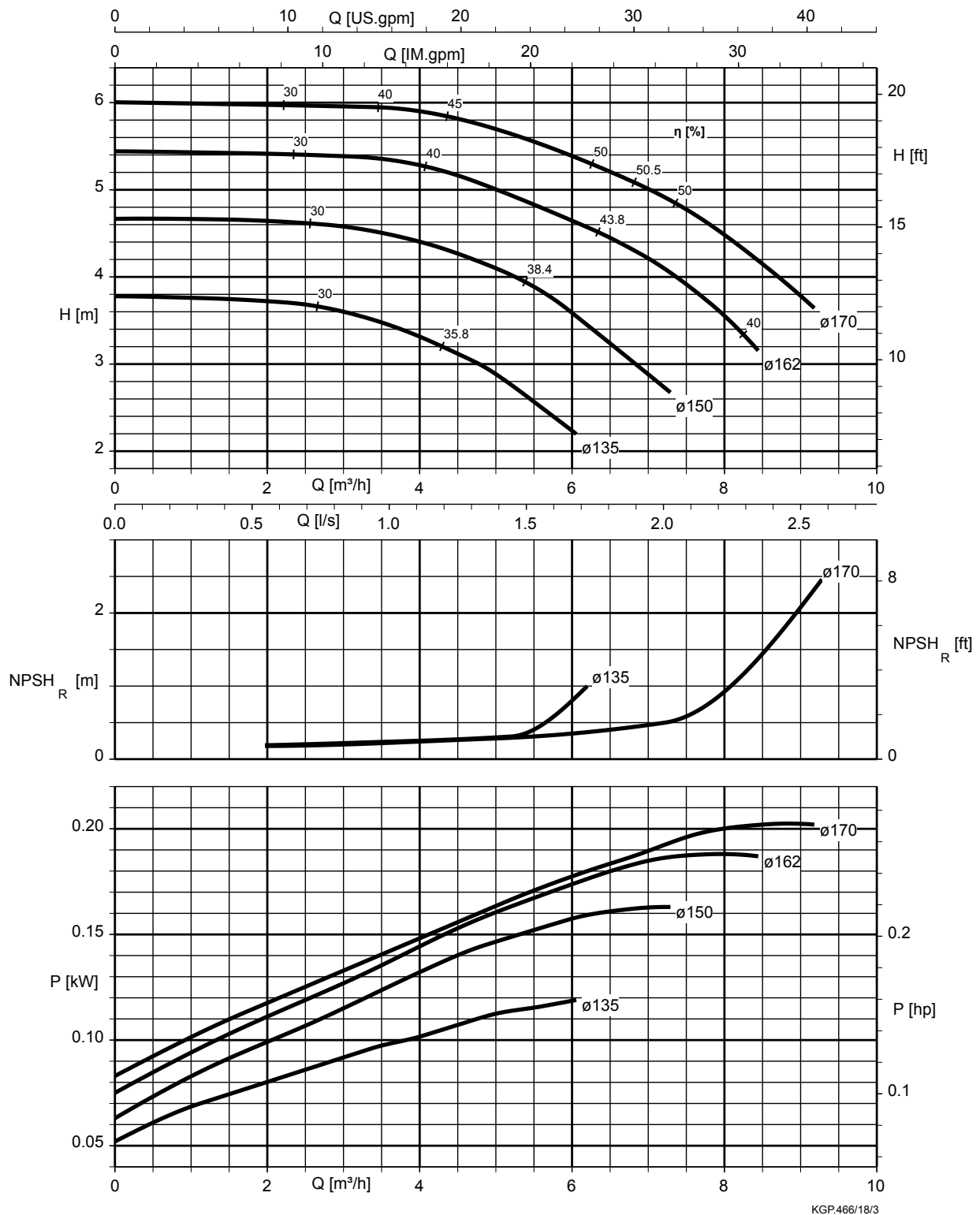
**MegaCPK 050-032-125.1, n = 1.160 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



MegaCPK 050-032-160.1,  $n = 1.160$  rpm

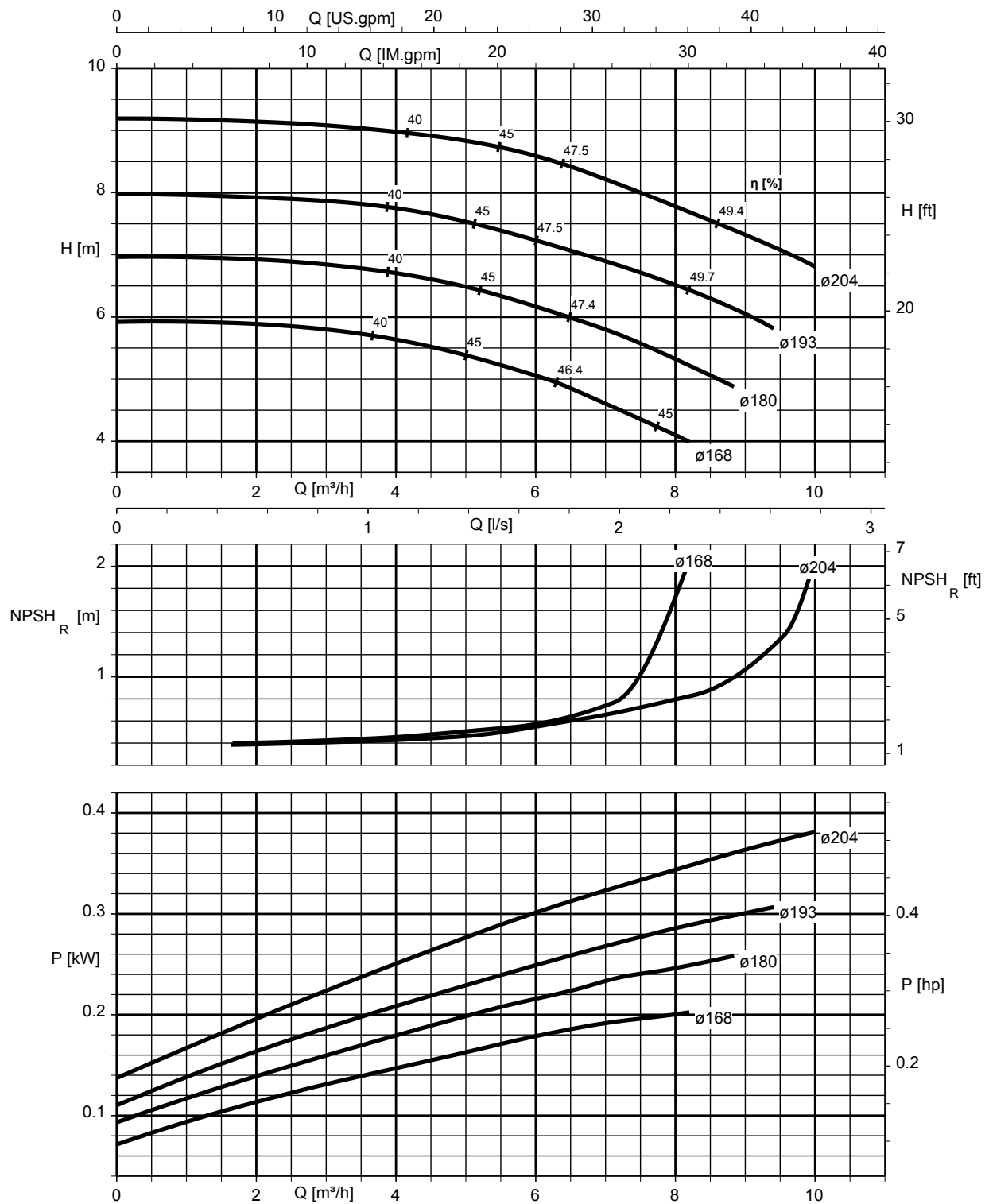
HPK-L, Magnochem, Magnochem-Bloc, Meganorm





**MegaCPK 050-032-200.1, n = 1.160 rpm**

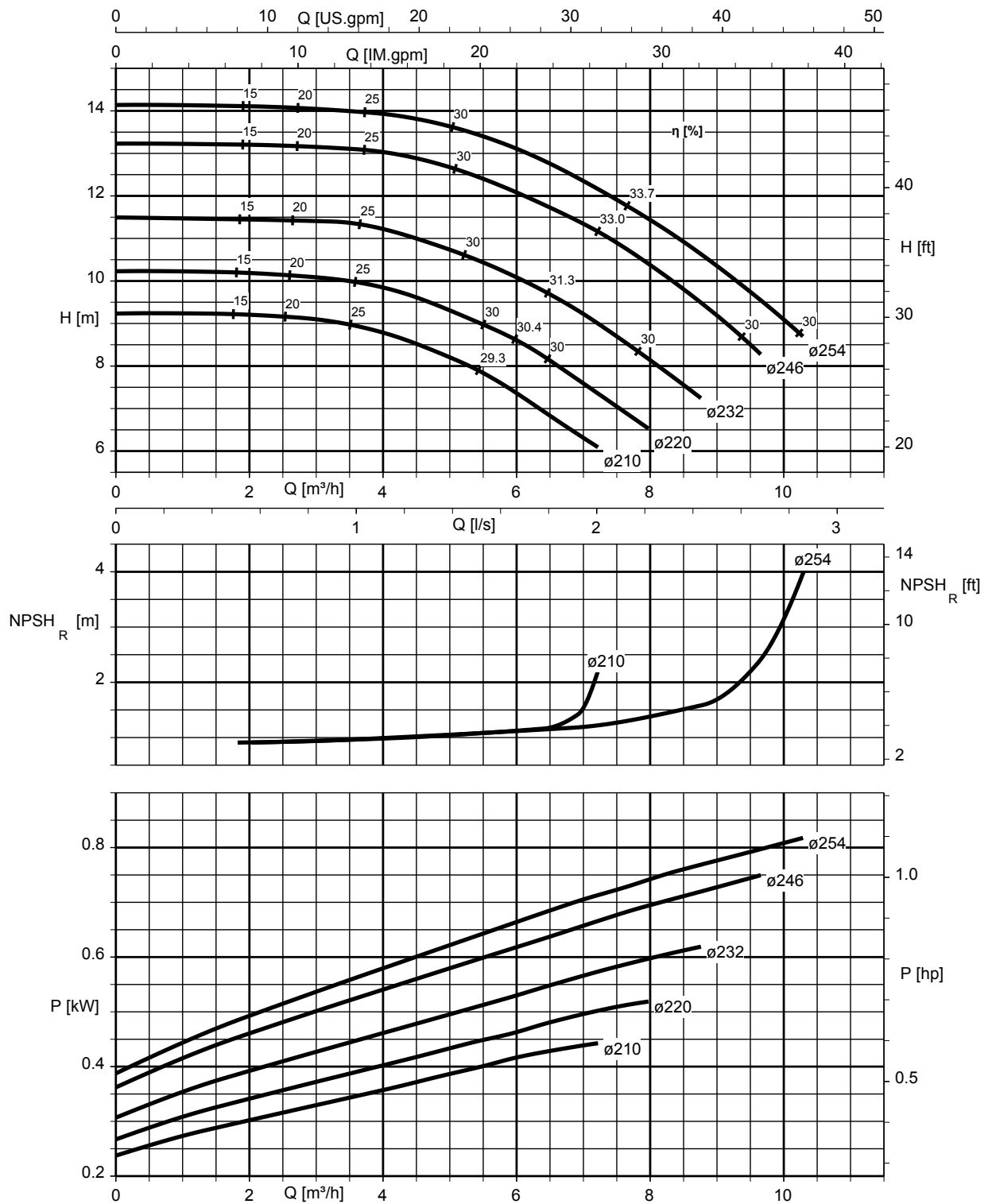
HPK-L, Magnochem, Magnochem-Bloc, Meganorm



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**MegaCPK 050-032-250.1,  $n = 1.160$  rpm**

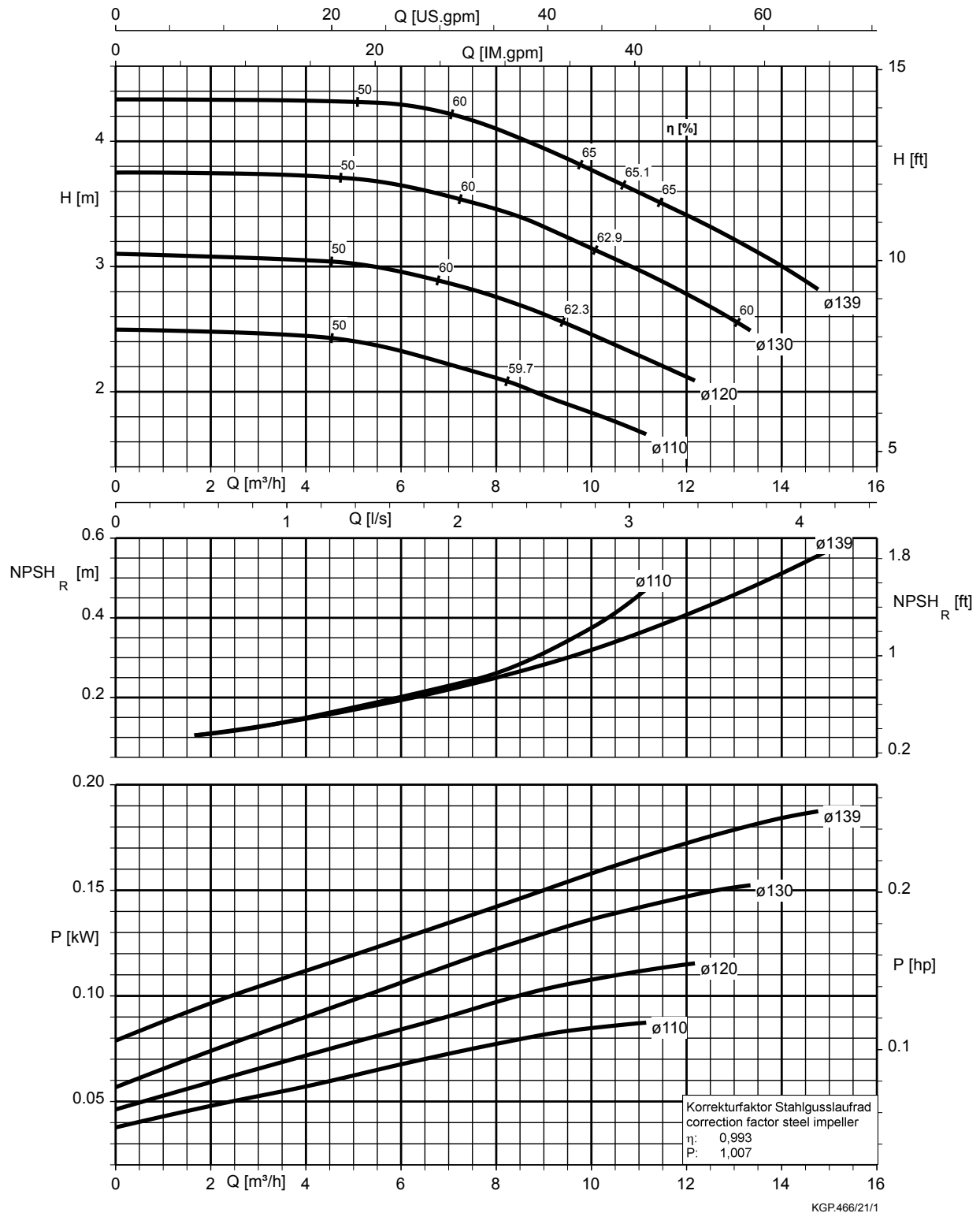
HPK-L, Magnochem, Magnochem-Bloc, Meganorm



KGP.466/20/2

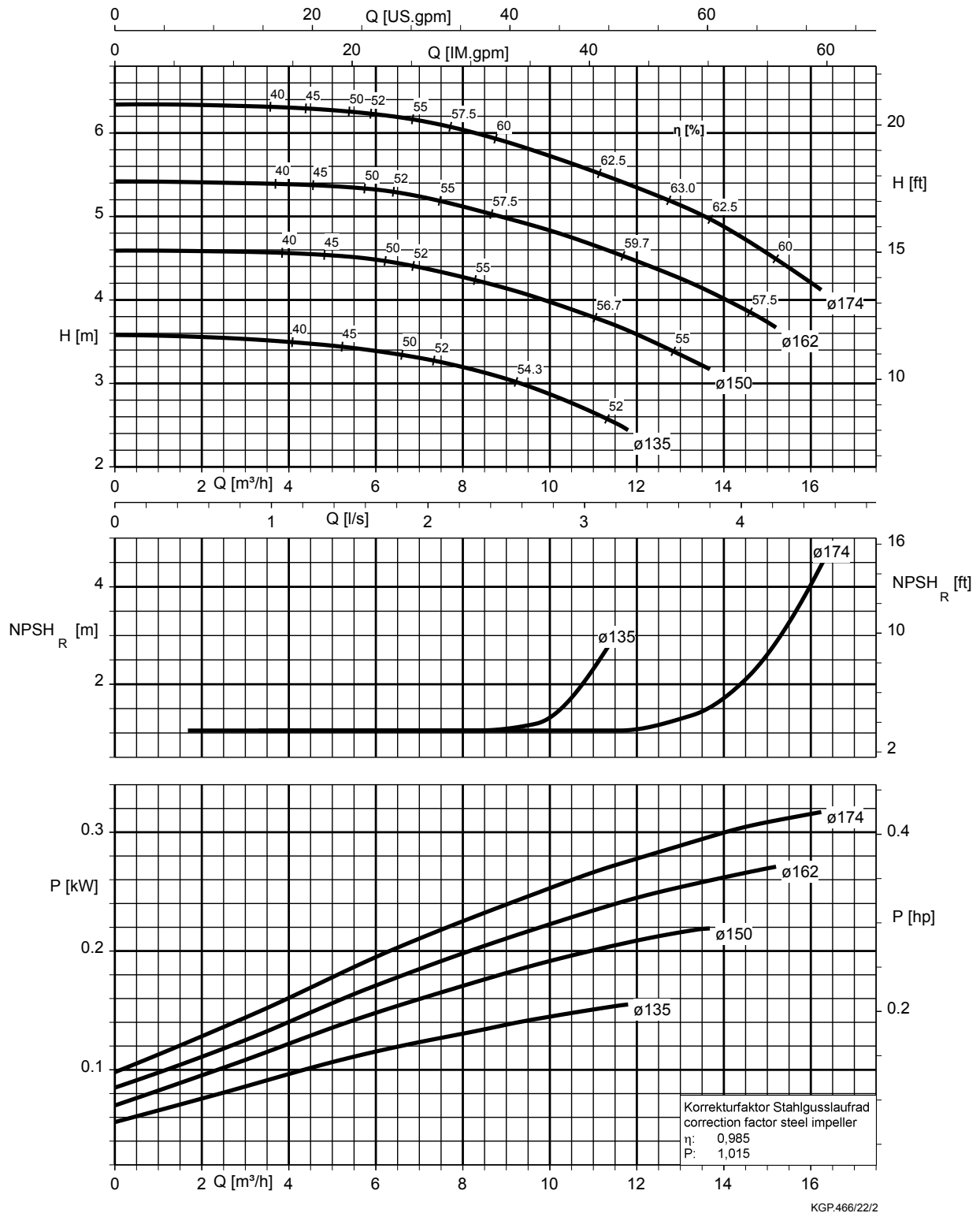
**MegaCPK 050-032-125,  $n = 1.160$  rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



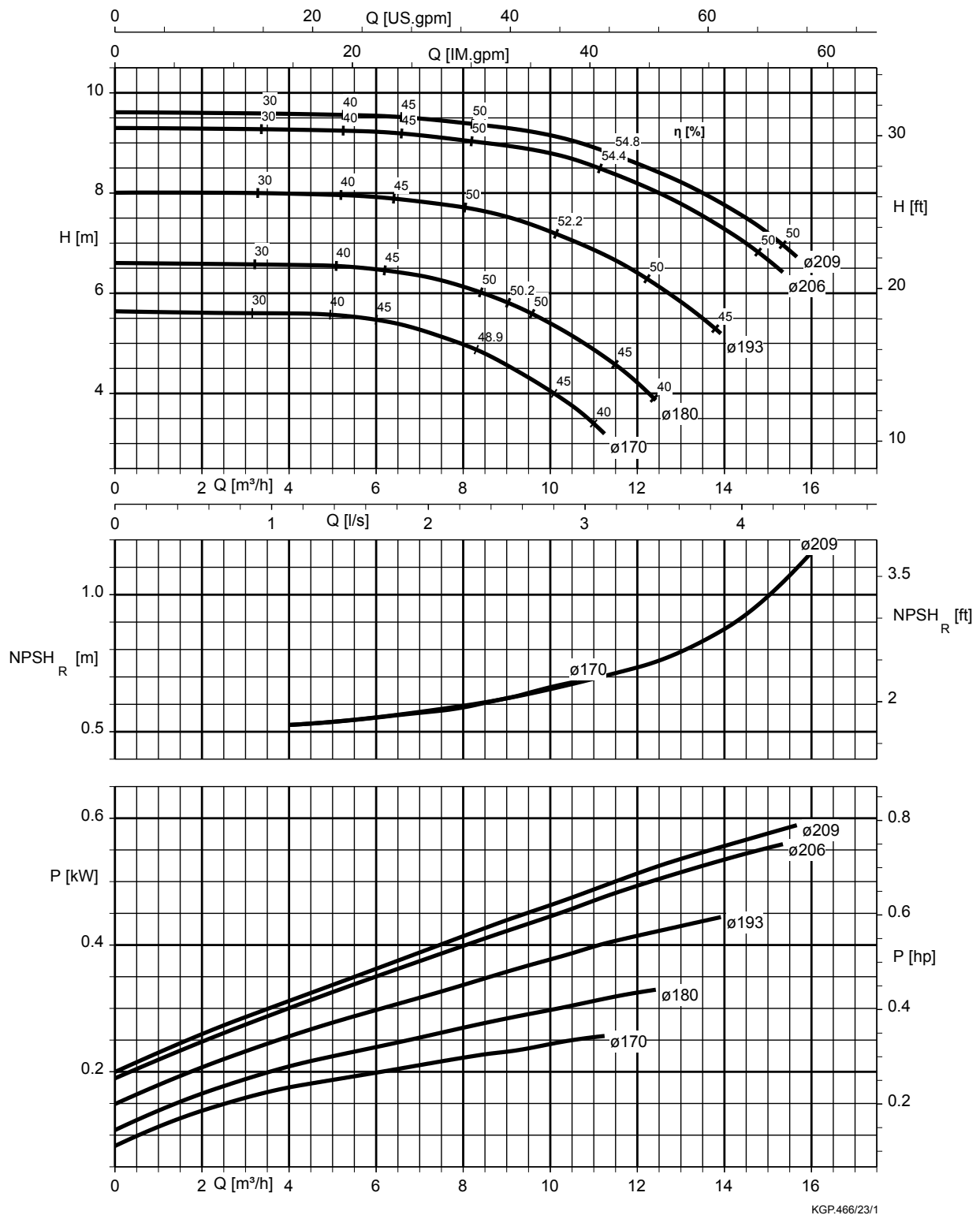
**MegaCPK 050-032-160, n = 1.160 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



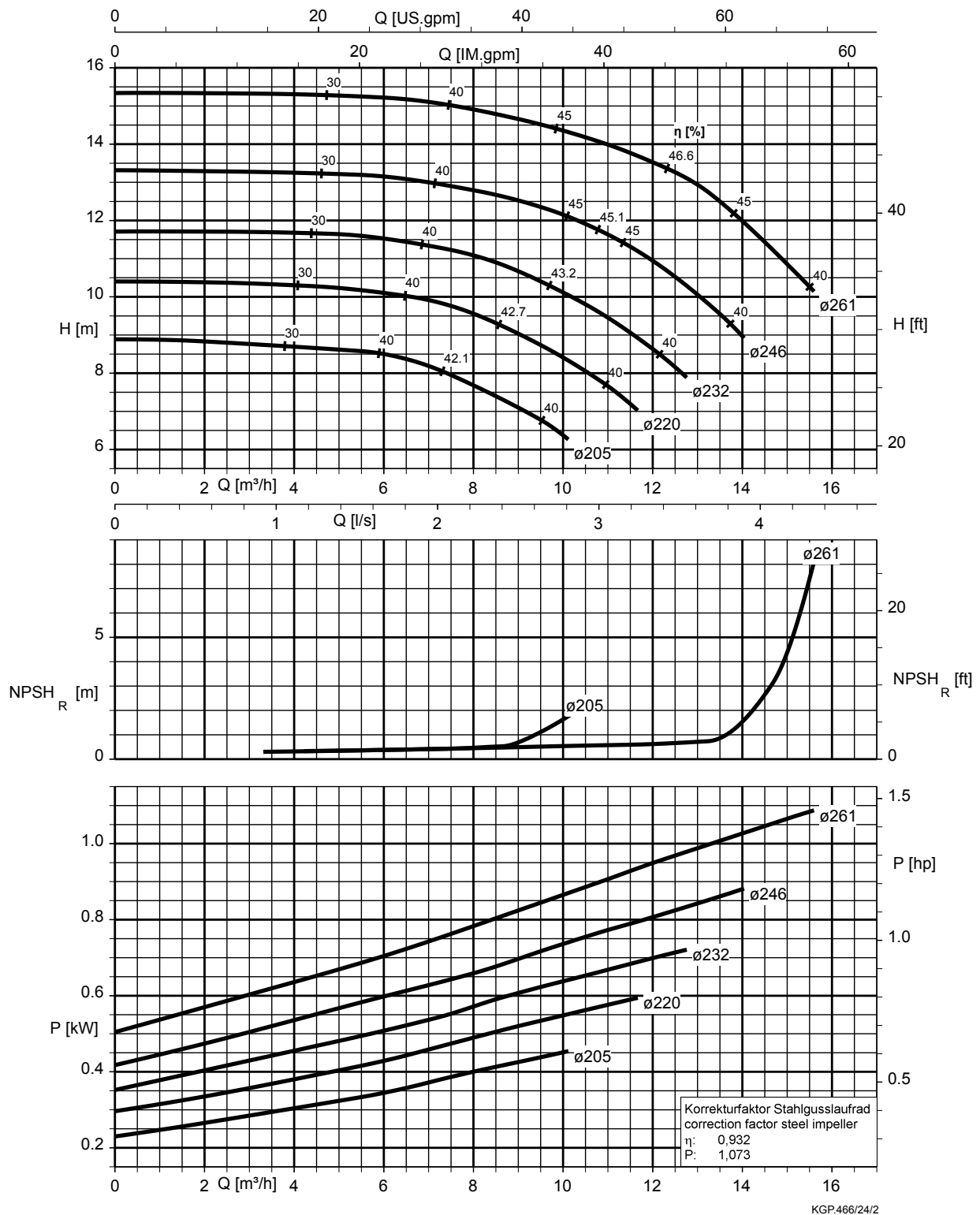
**MegaCPK 050-032-200, n = 1.160 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



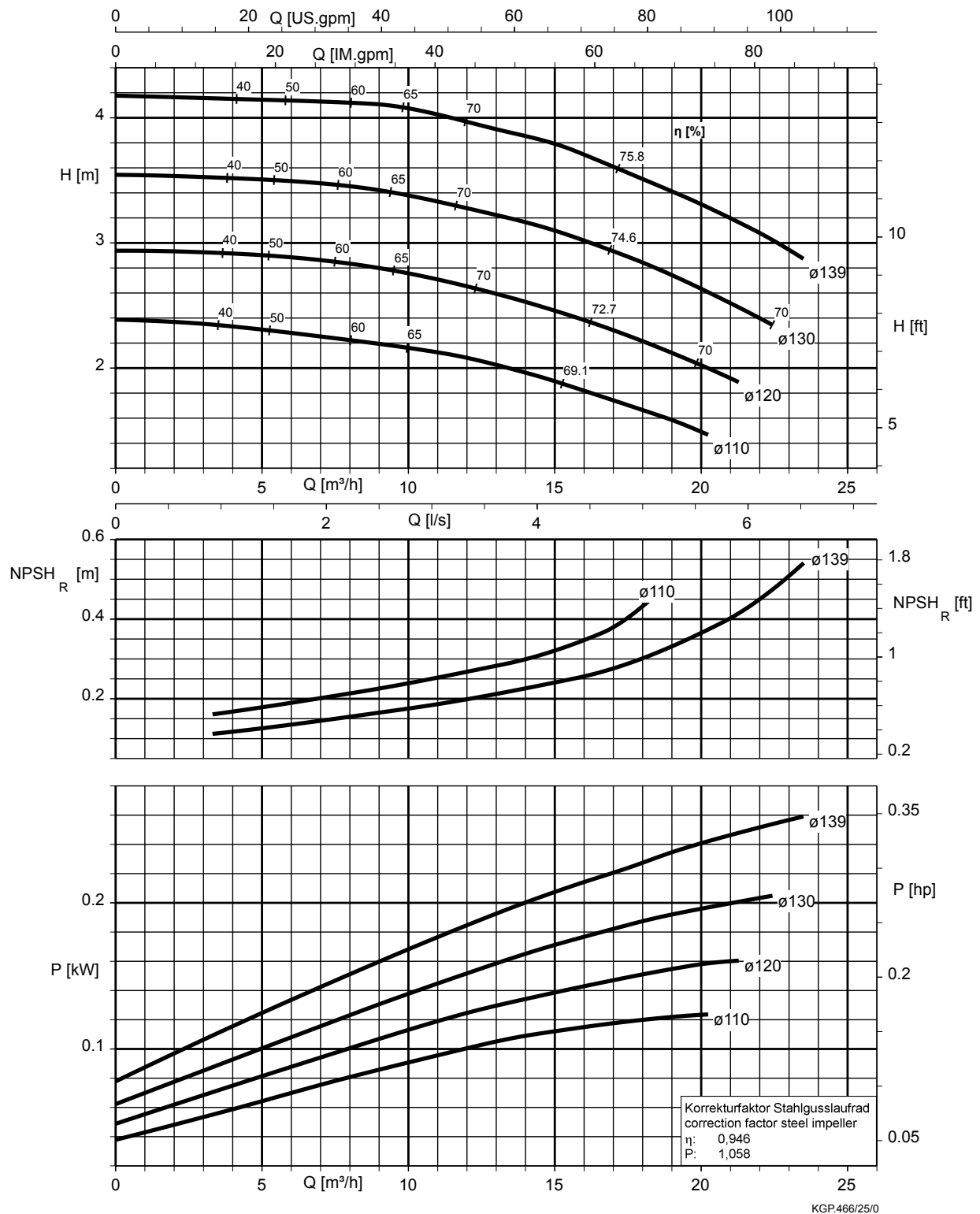
**MegaCPK 050-032-250, n = 1.160 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



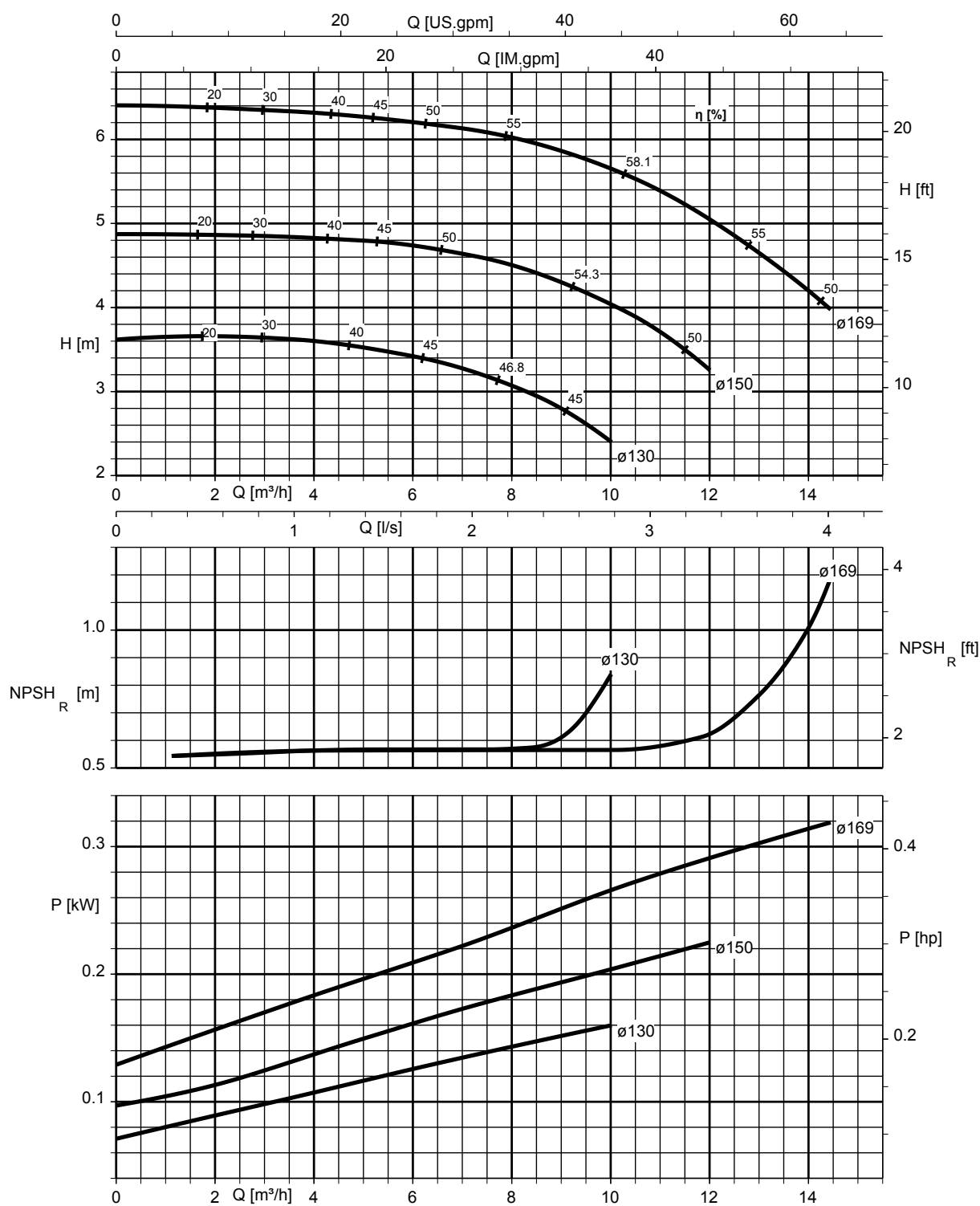
**MegaCPK 065-040-125, n = 1.160 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



**MegaCPK 065-040-160.1, n = 1160 rpm**

HPK-L, Magnochem, Magnochem-Bloc

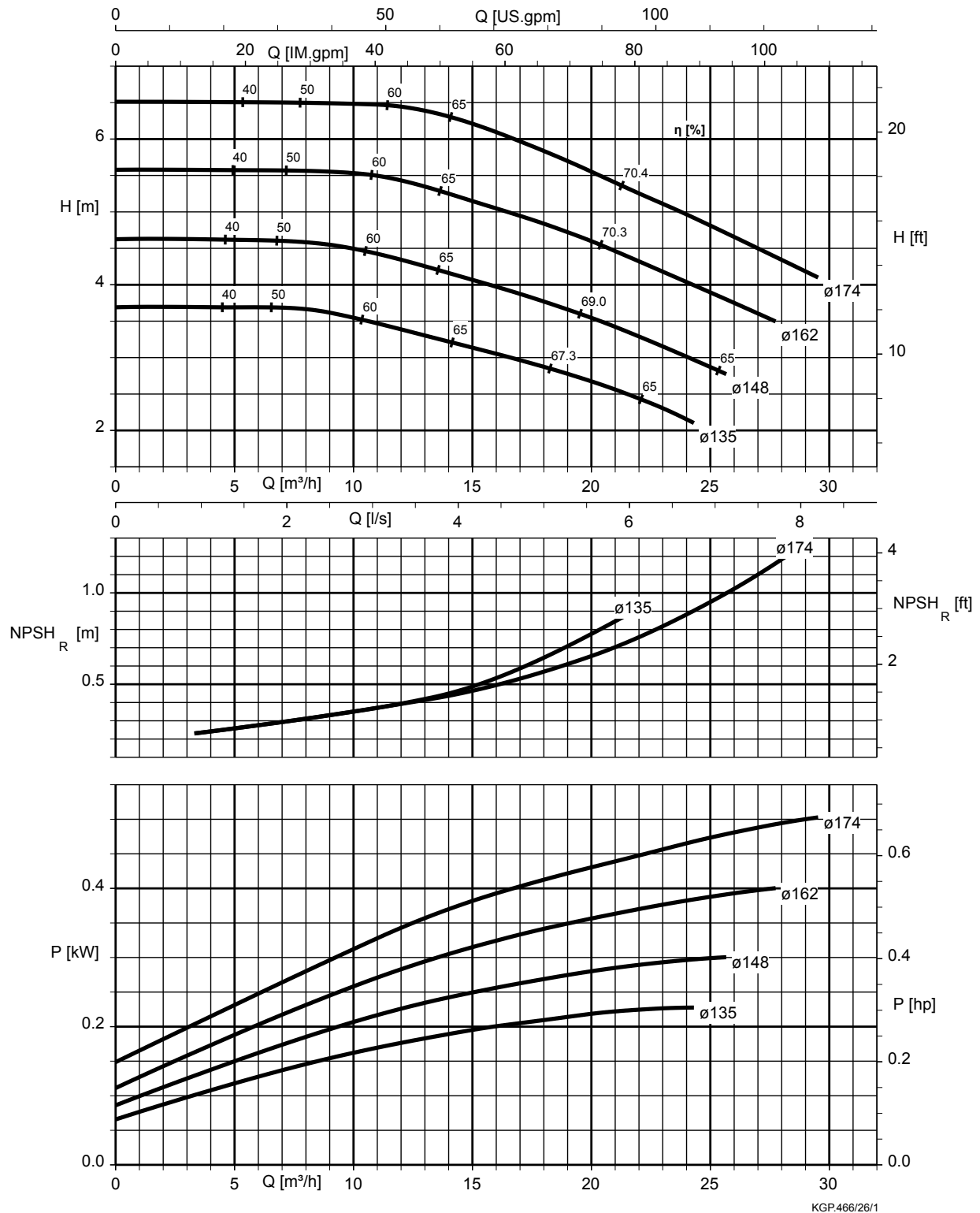


KGP.466/11/0



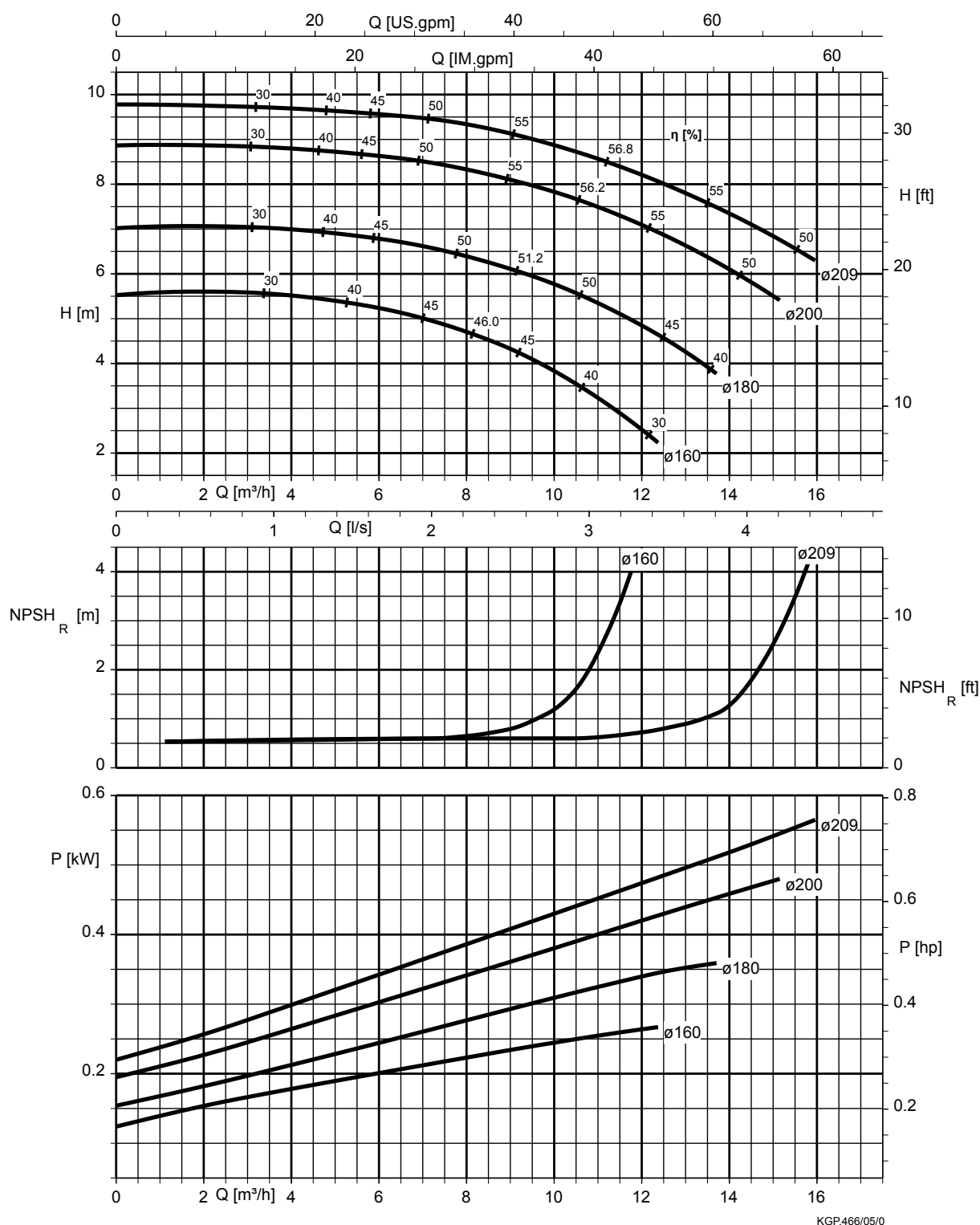
**MegaCPK 065-040-160, n = 1.160 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



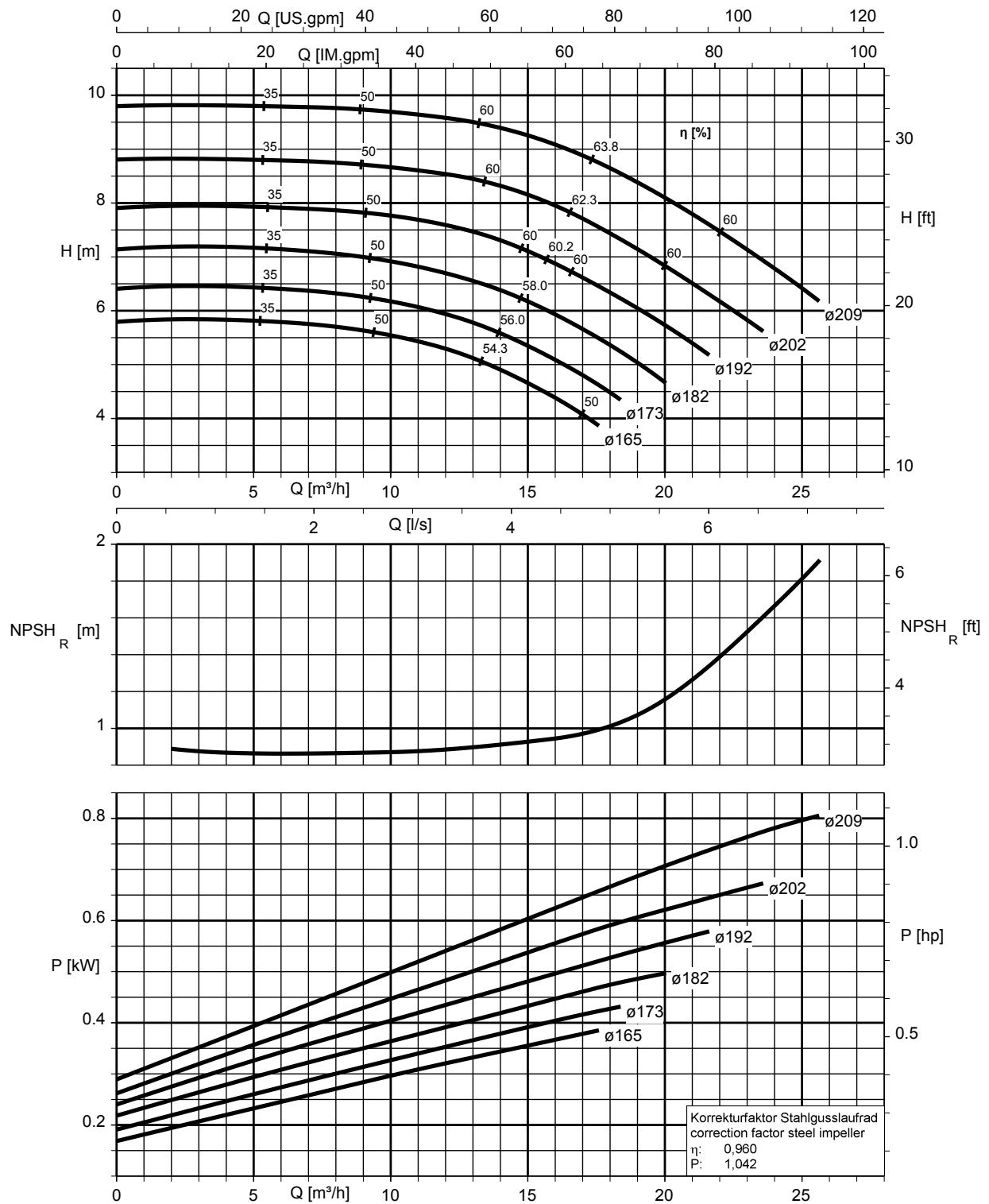
**MegaCPK 065-040-200.1, n = 1160 rpm**

Magnochem, Magnochem-Bloc



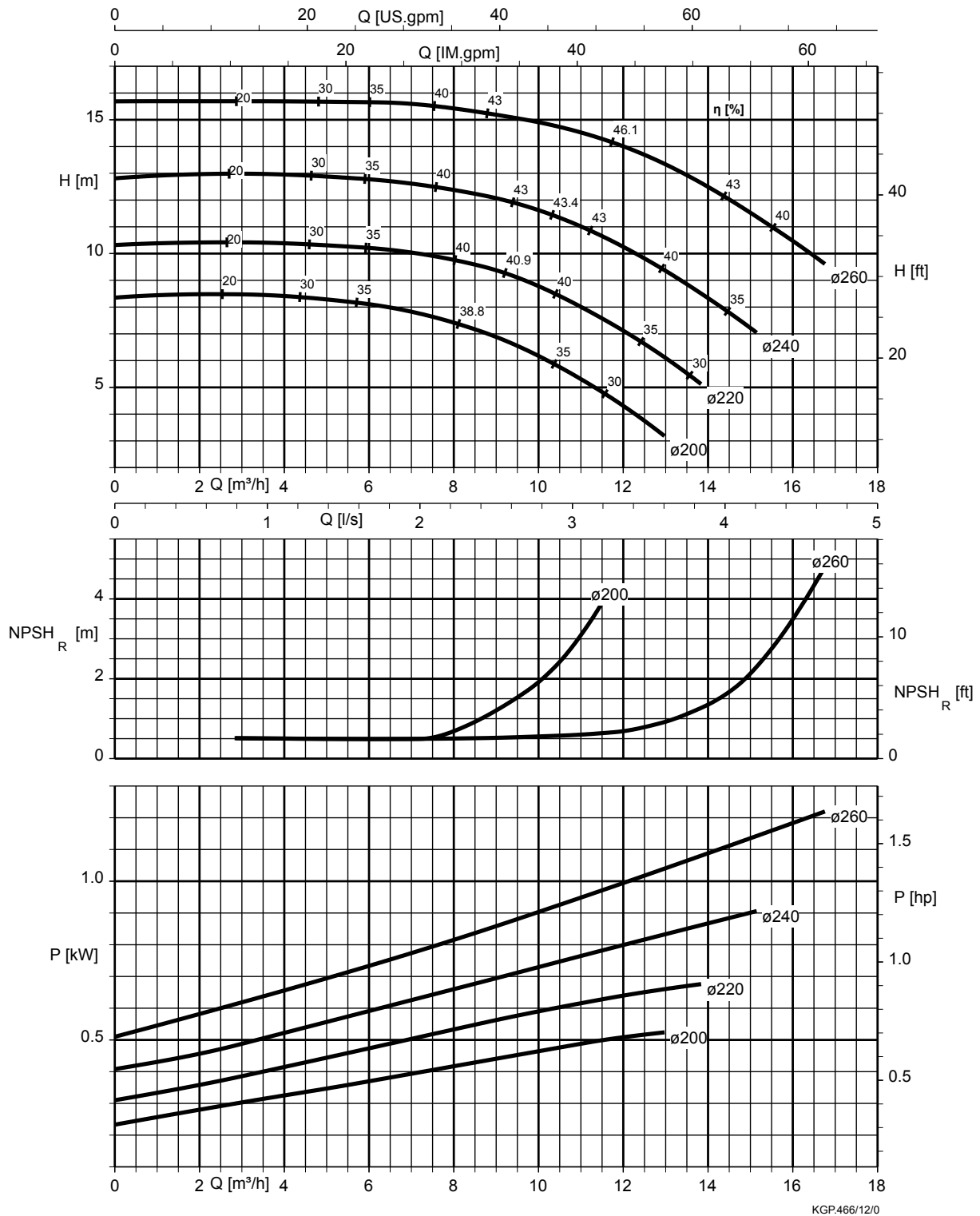
**MegaCPK 065-040-200, n = 1.160 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



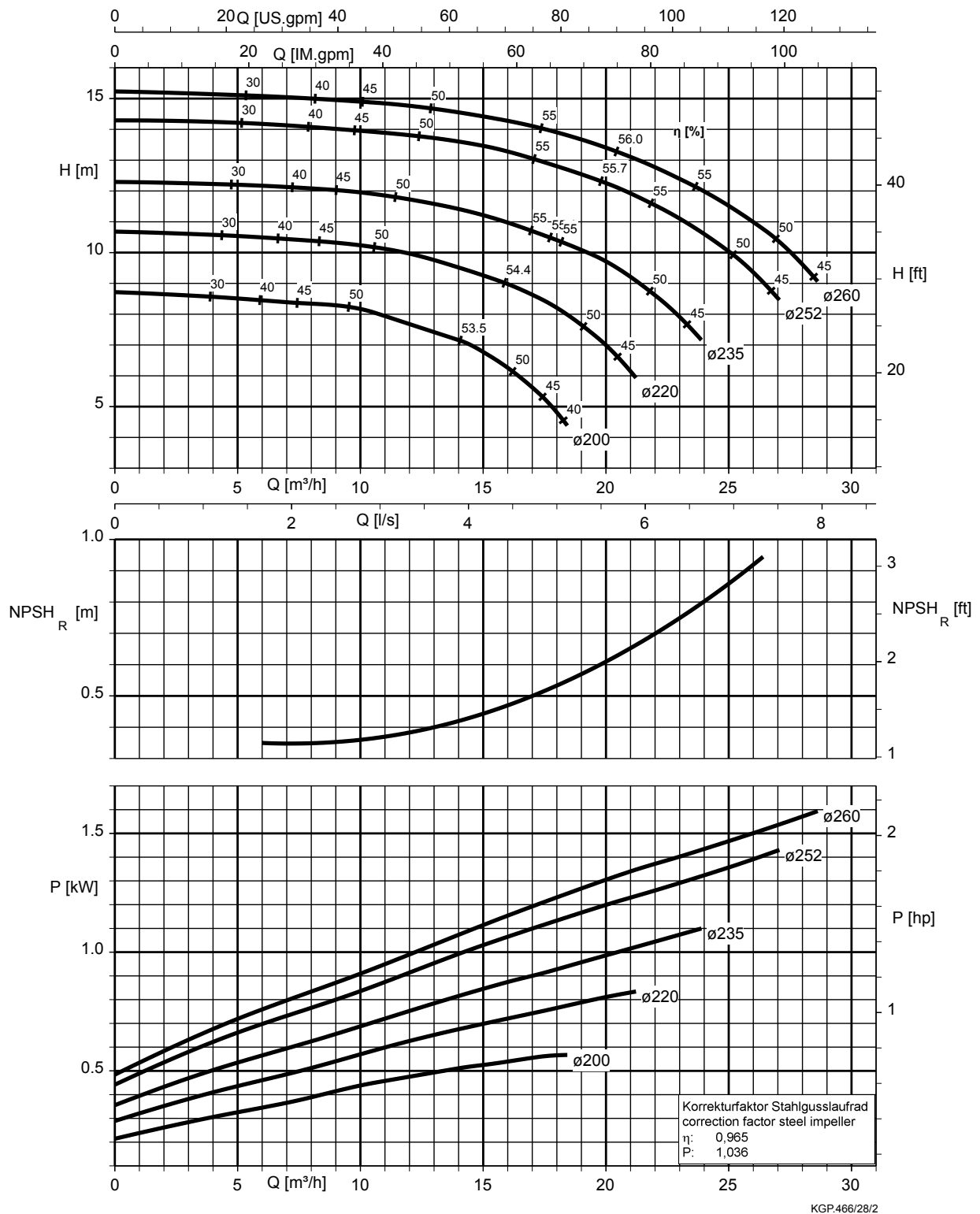
**MegaCPK 065-040-250.1, n = 1160 rpm**

HPK-L, Magnochem, Magnochem-Bloc



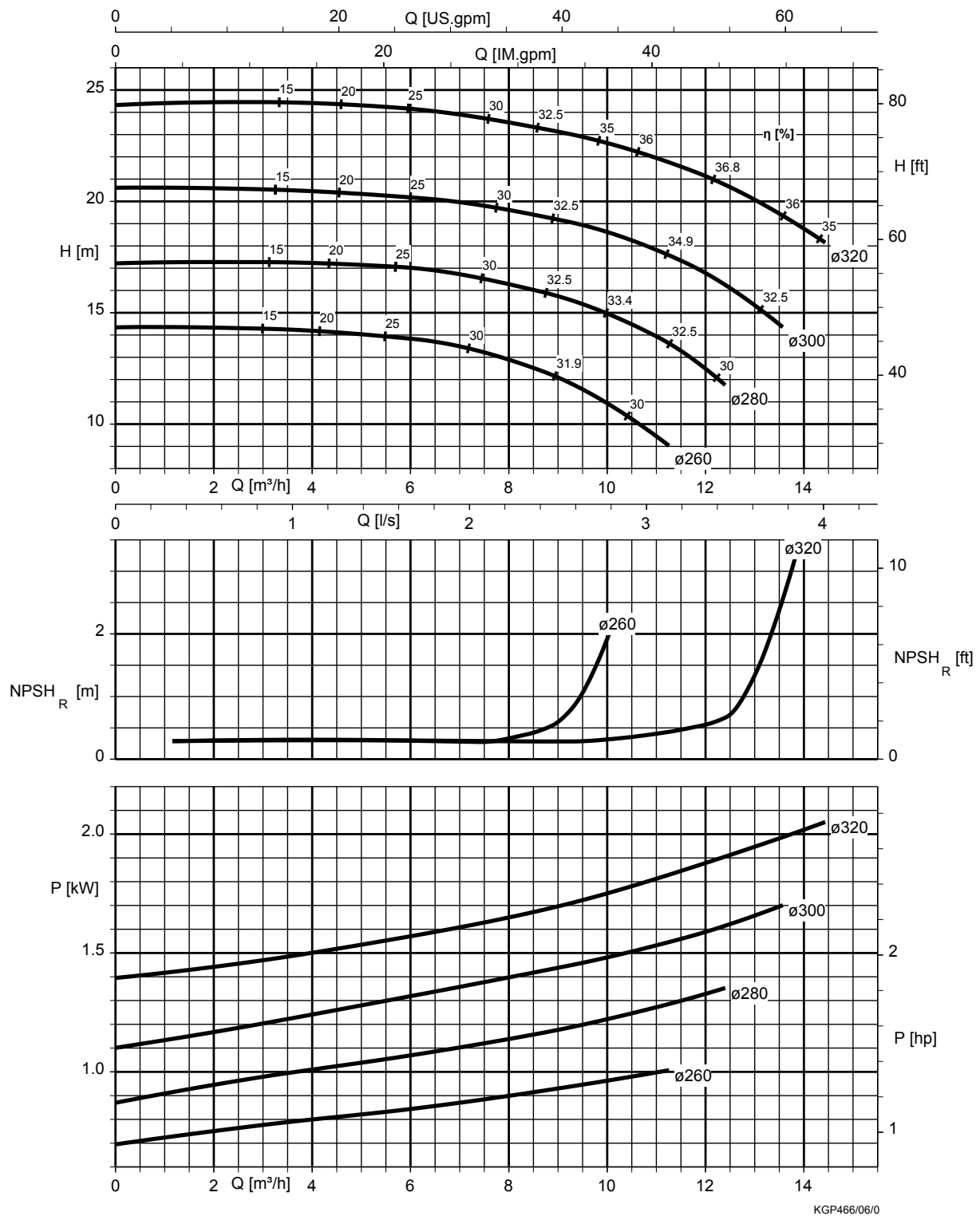
**MegaCPK 065-040-250, n = 1.160 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



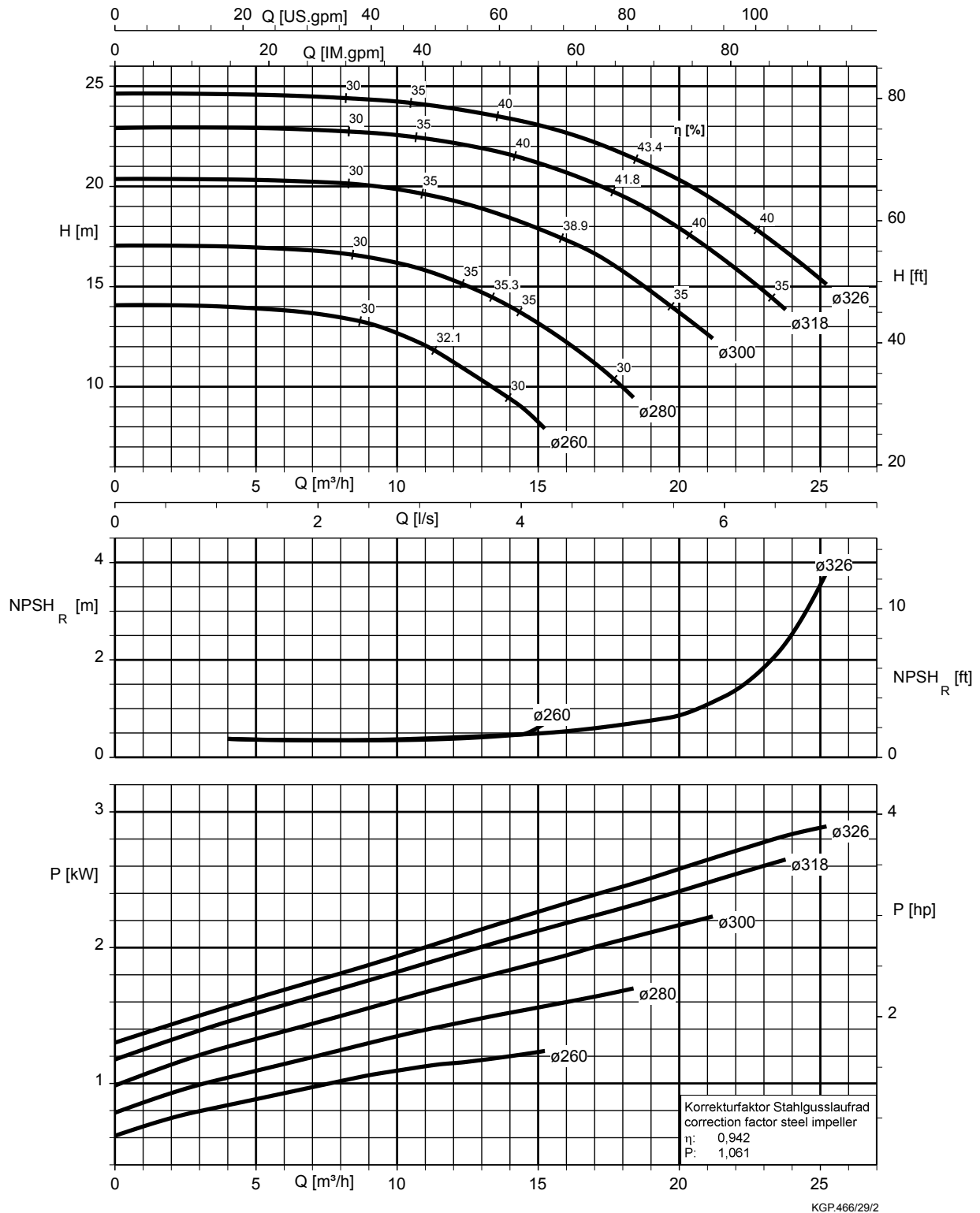
**MegaCPK 065-040-315.1, n = 1160 rpm**

Magnochem, Magnochem-Bloc



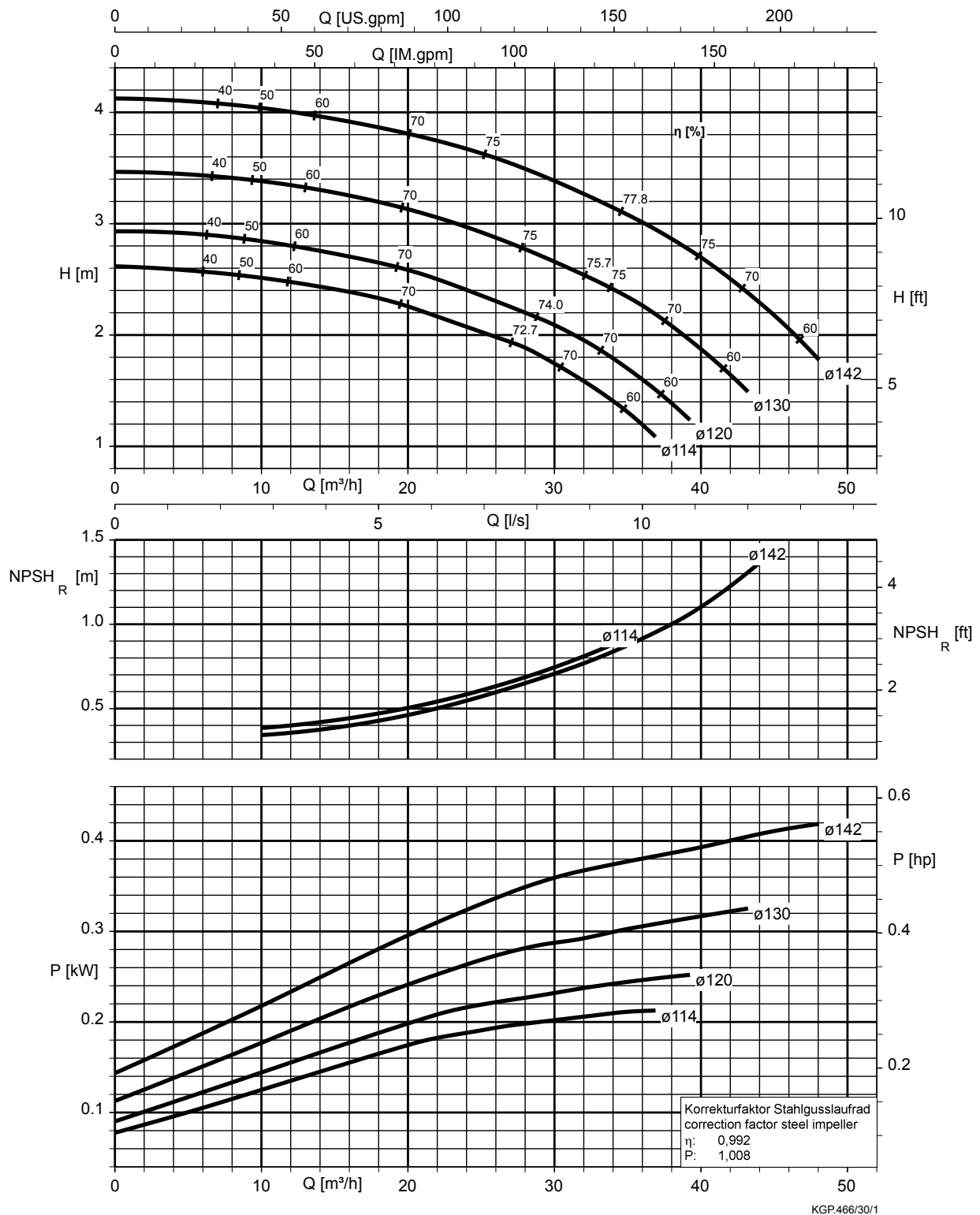
**MegaCPK 065-040-315, n = 1.160 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



**MegaCPK 080-050-125, n = 1.160 rpm**

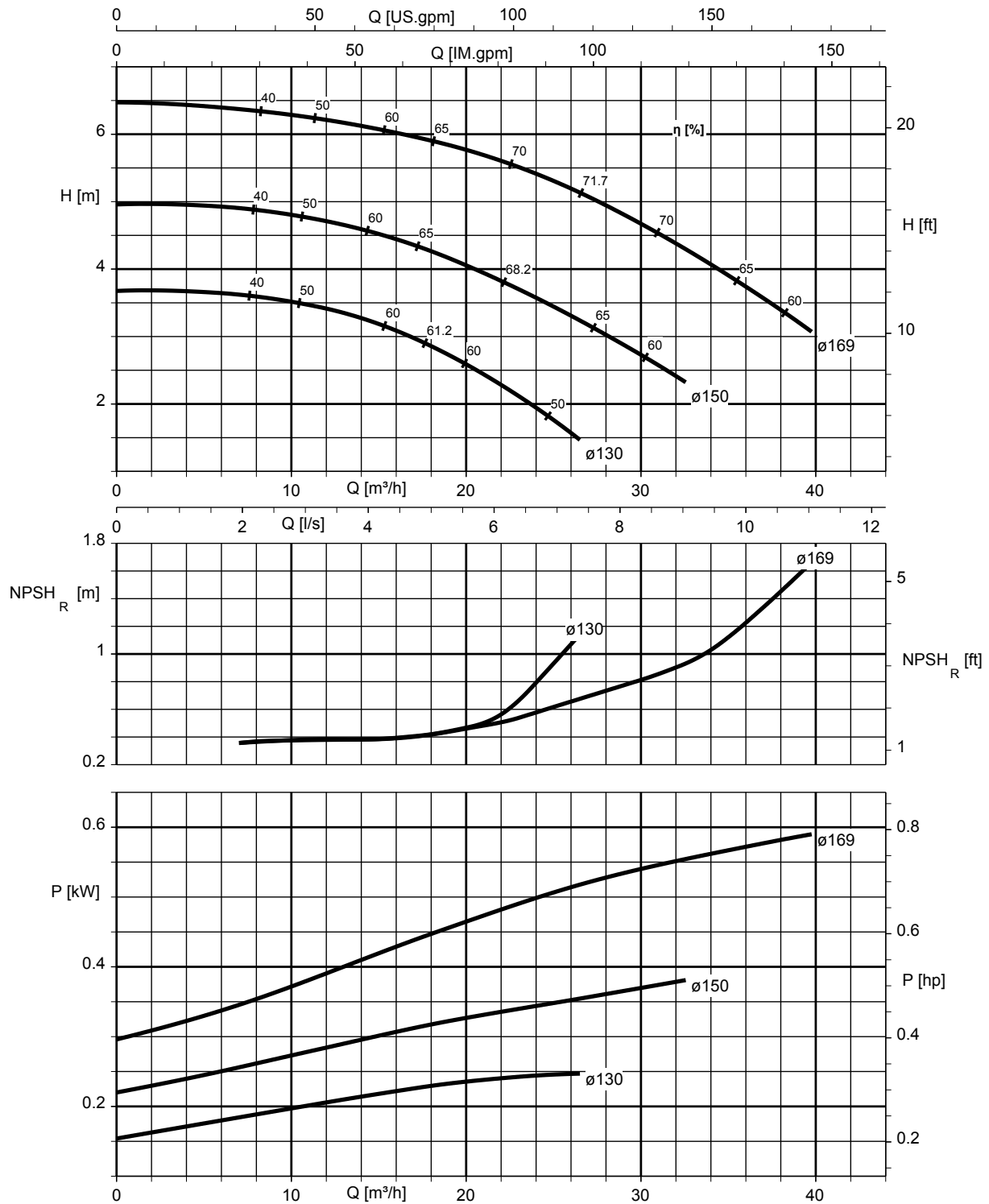
HPK-L, Magnochem, Magnochem-Bloc, Meganorm





**MegaCPK 080-050-160.1, n = 1160 rpm**

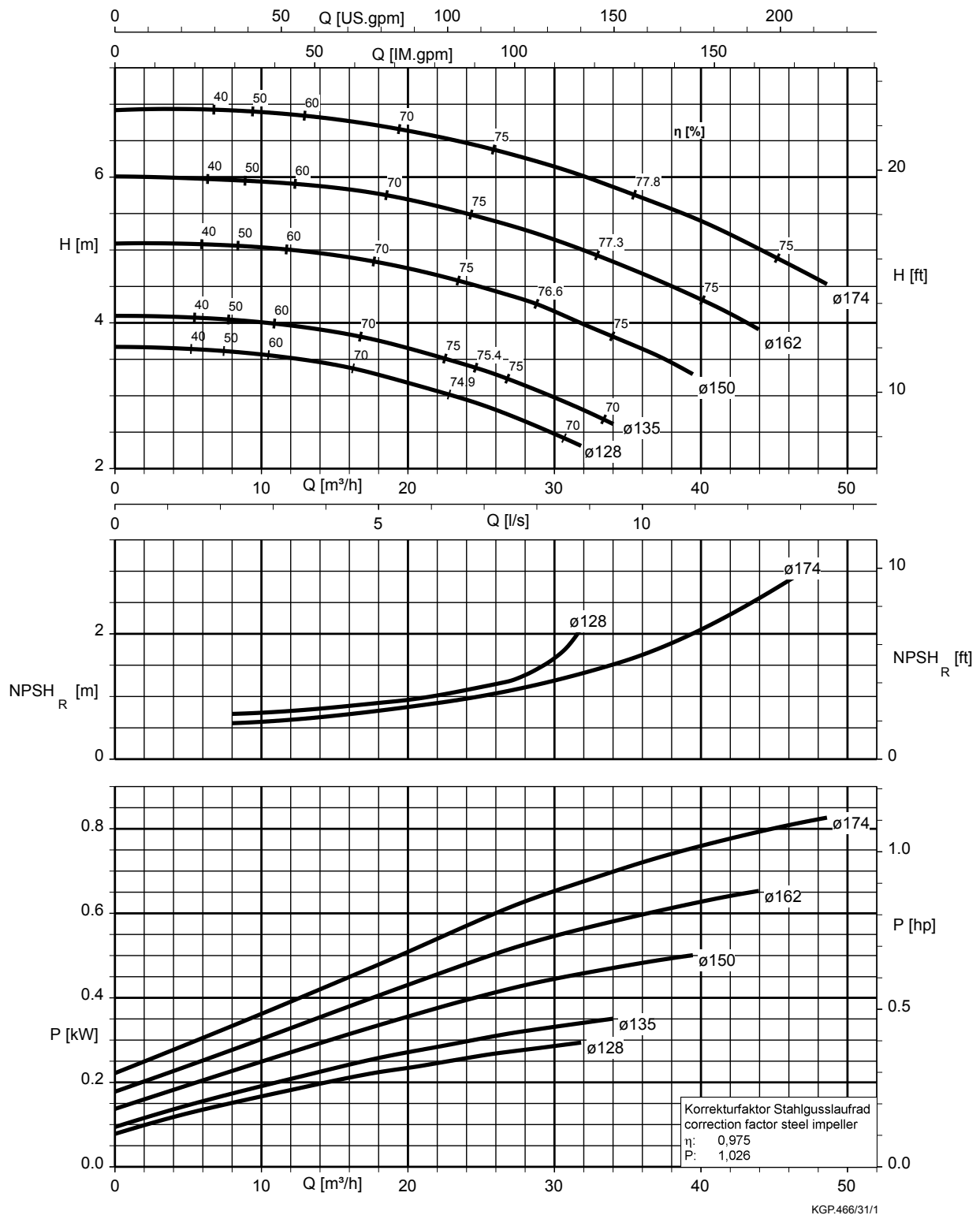
Magnochem, Magnochem-Bloc



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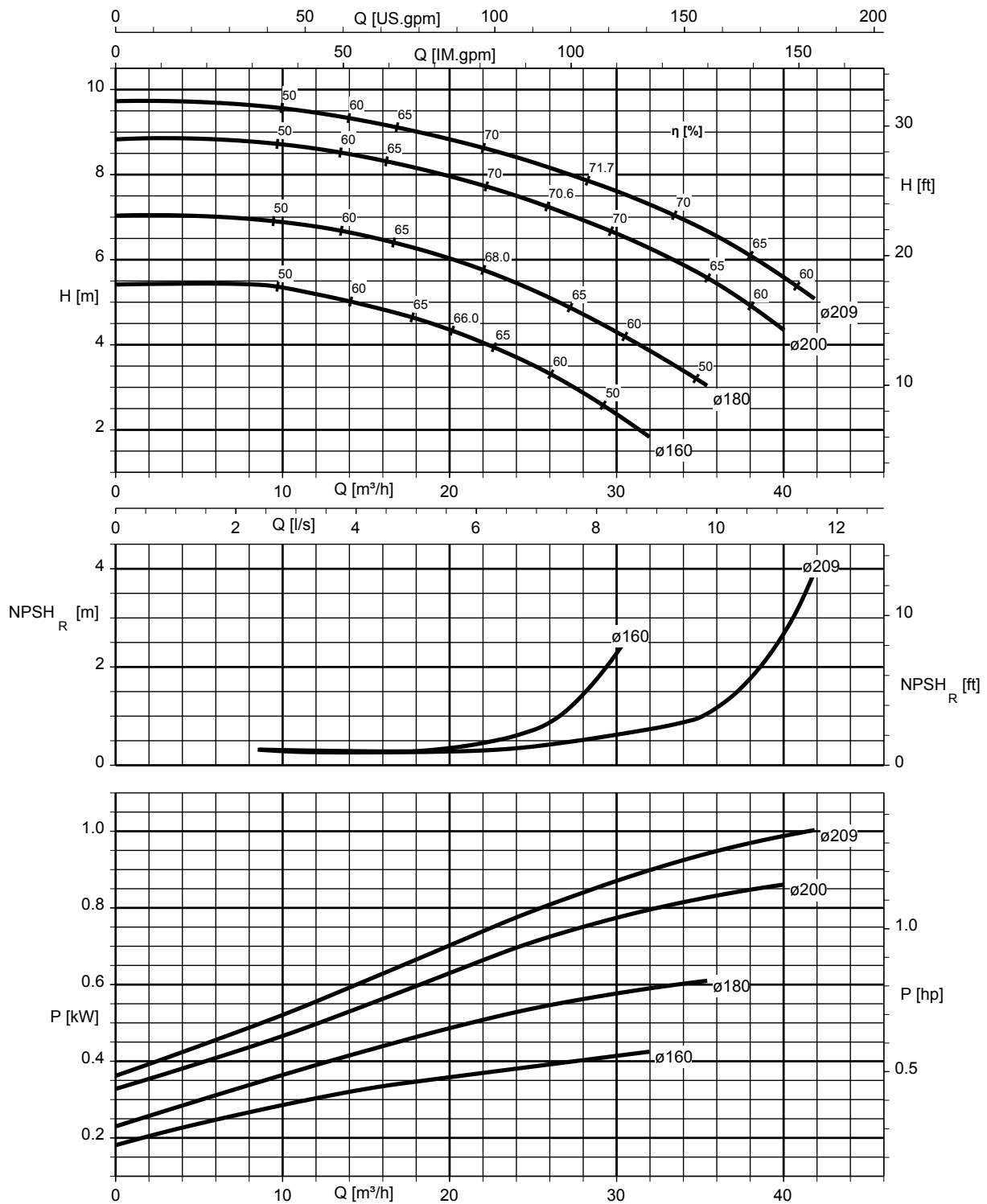
**MegaCPK 080-050-160, n = 1.160 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



**MegaCPK 080-050-200.1, n = 1160 rpm**

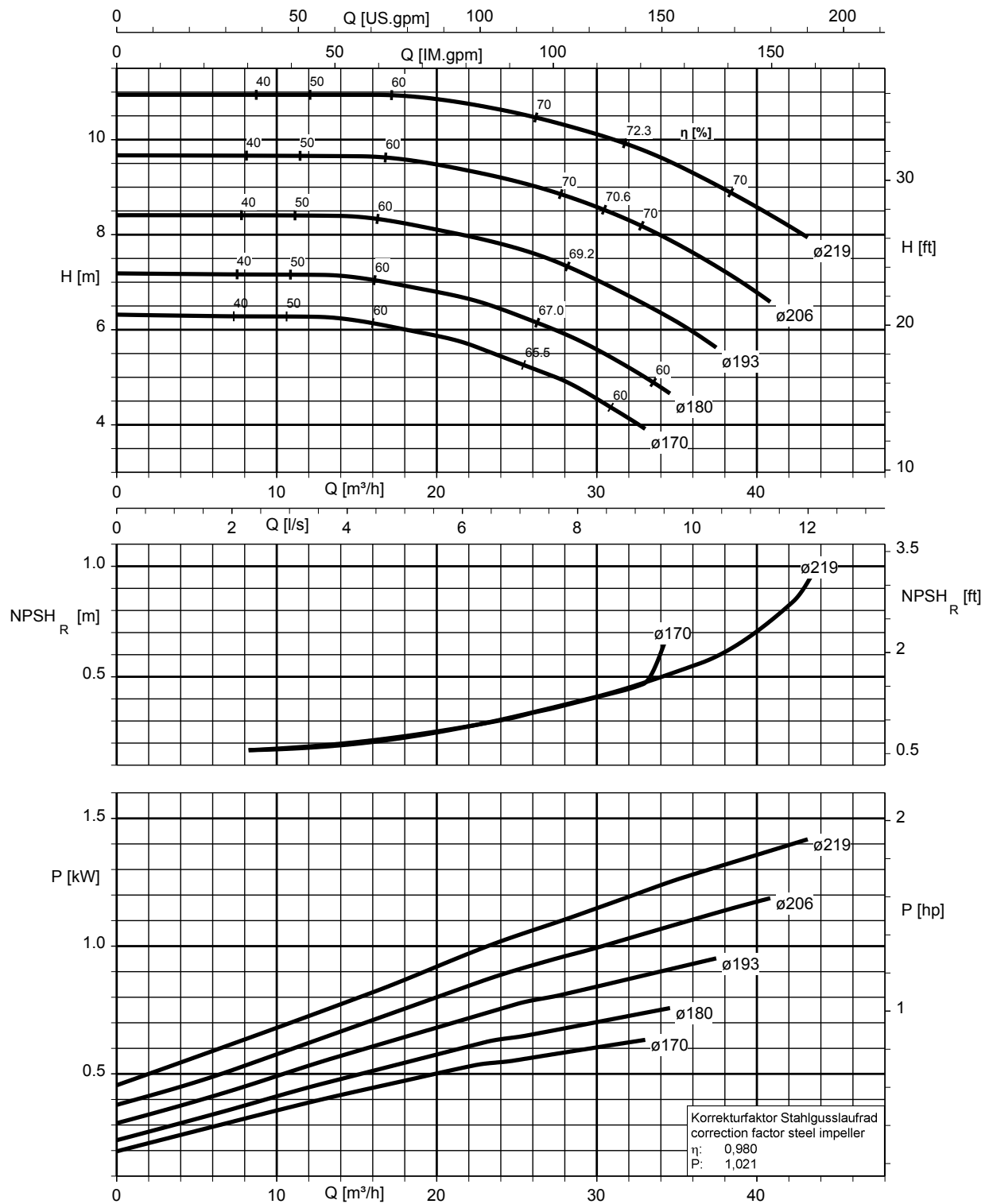
Magnochem, Magnochem-Bloc



KGP.466/09/0

**MegaCPK 080-050-200, n = 1.160 rpm**

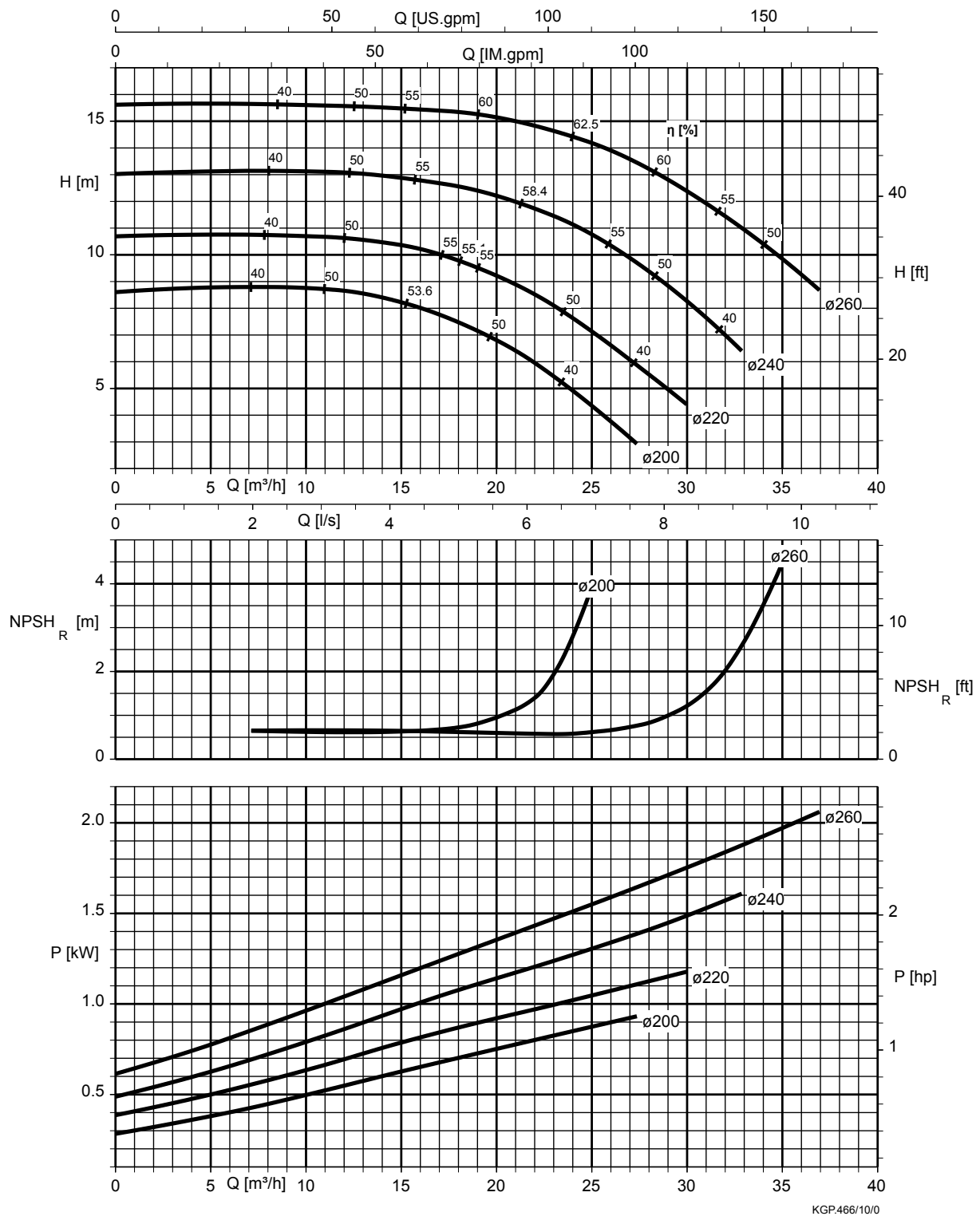
HPK-L, Magnochem, Magnochem-Bloc, Meganorm



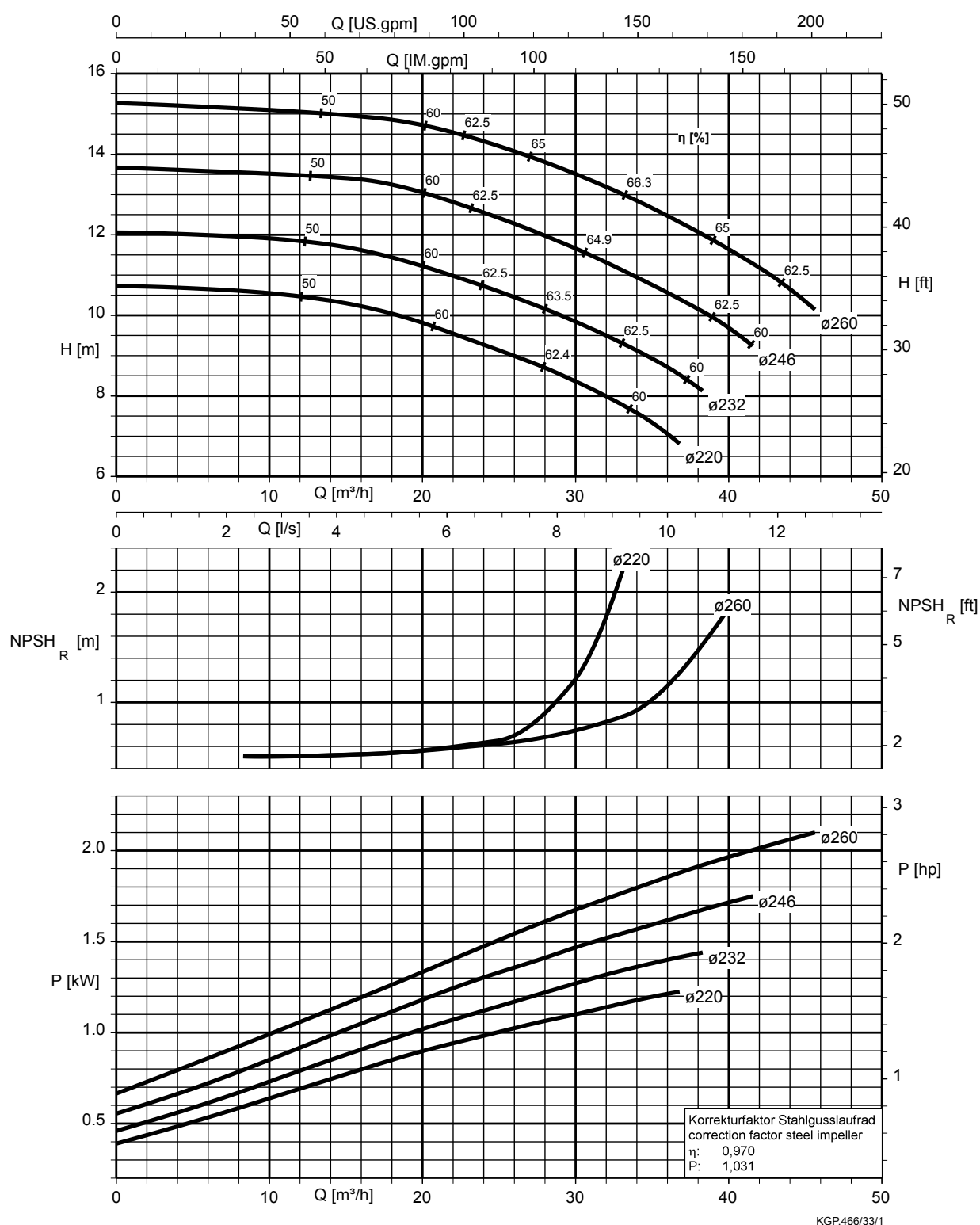
KGP.466/32/0

**MegaCPK 080-050-250.1, n = 1160 rpm**

Magnochem, Magnochem-Bloc

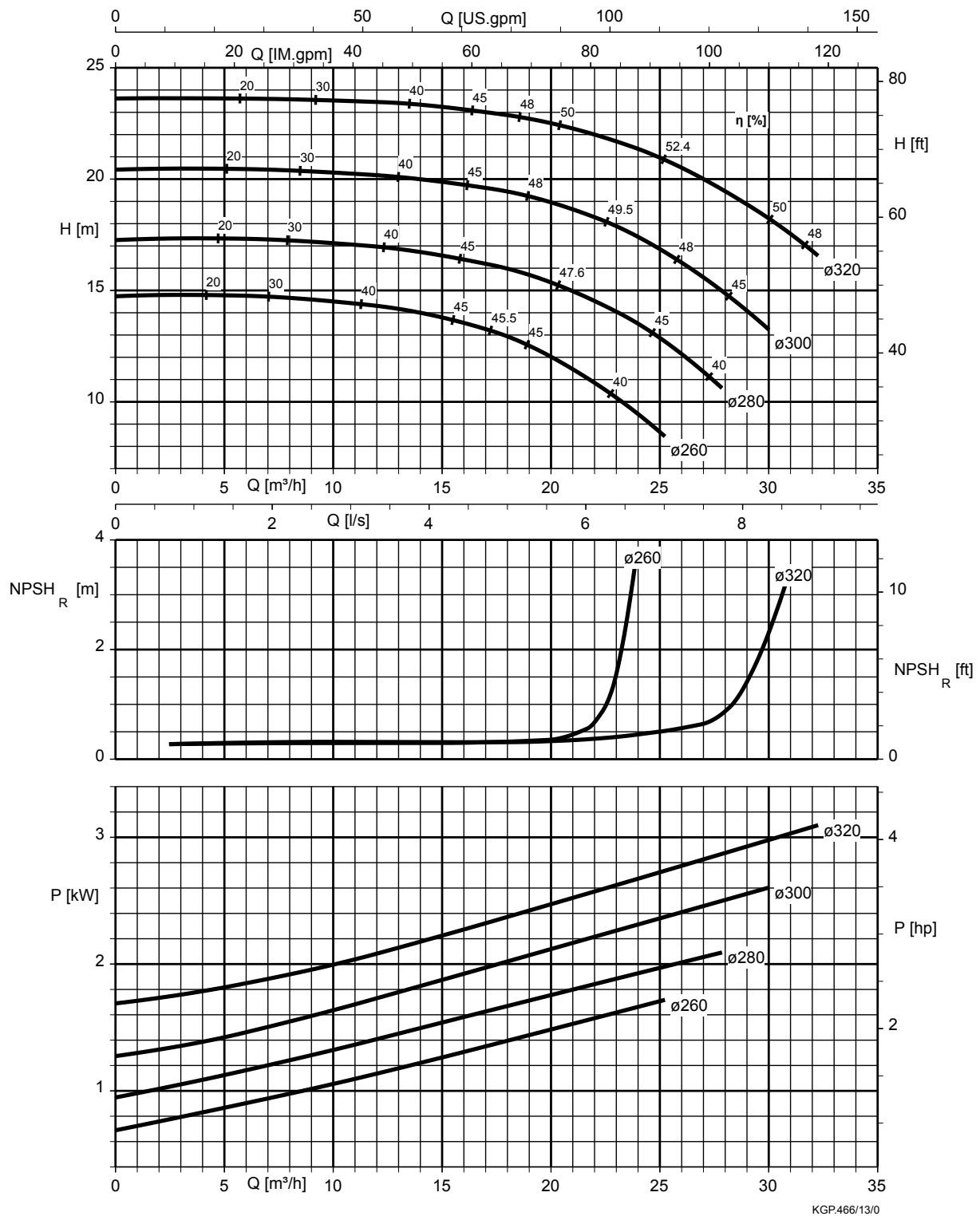


HPK-L, Magnochem, Magnochem-Bloc, Meganorm



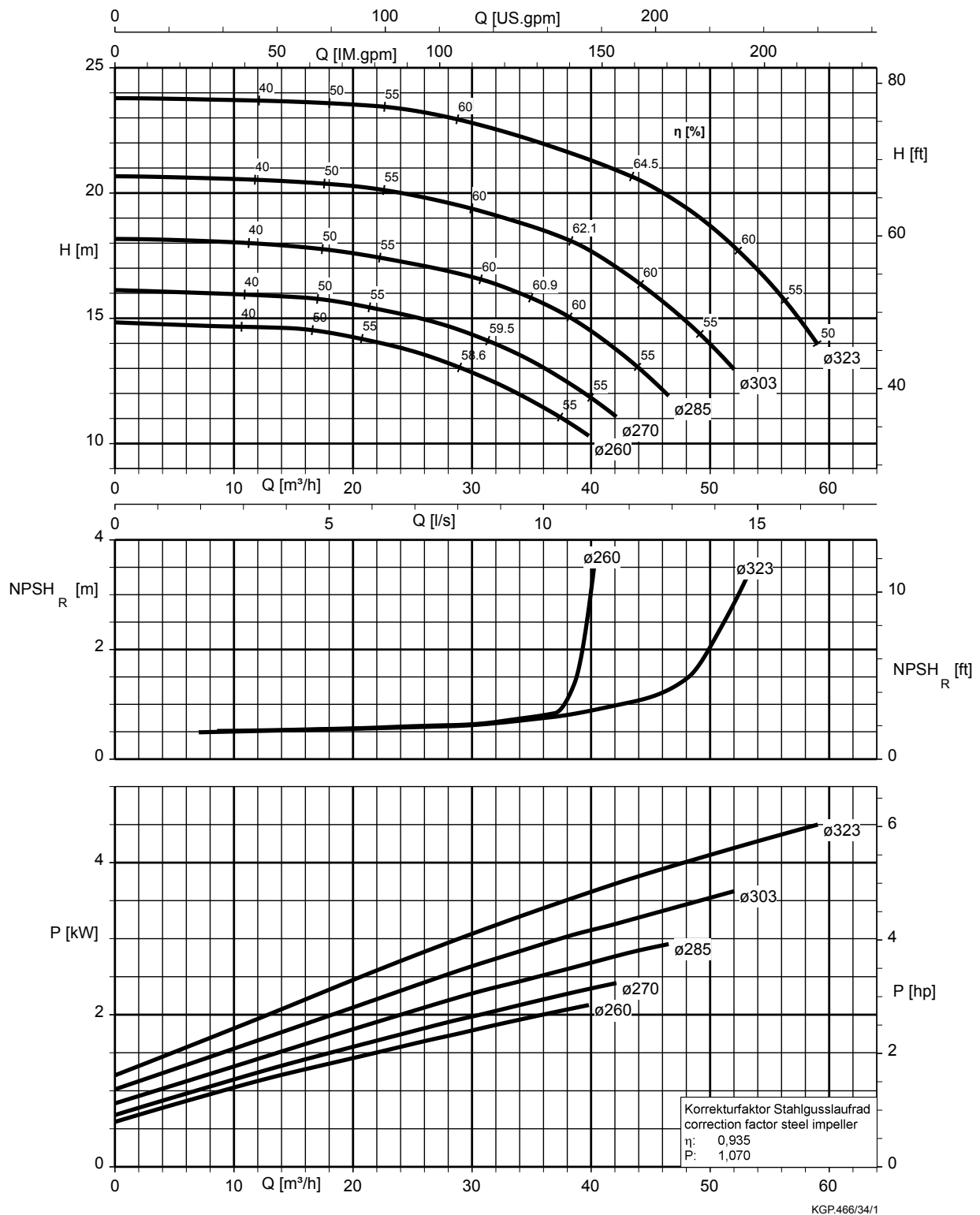
**MegaCPK 080-050-315.1, n = 1160 rpm**

HPK-L, Magnochem, Magnochem-Bloc



**MegaCPK 080-050-315, n = 1.160 rpm**

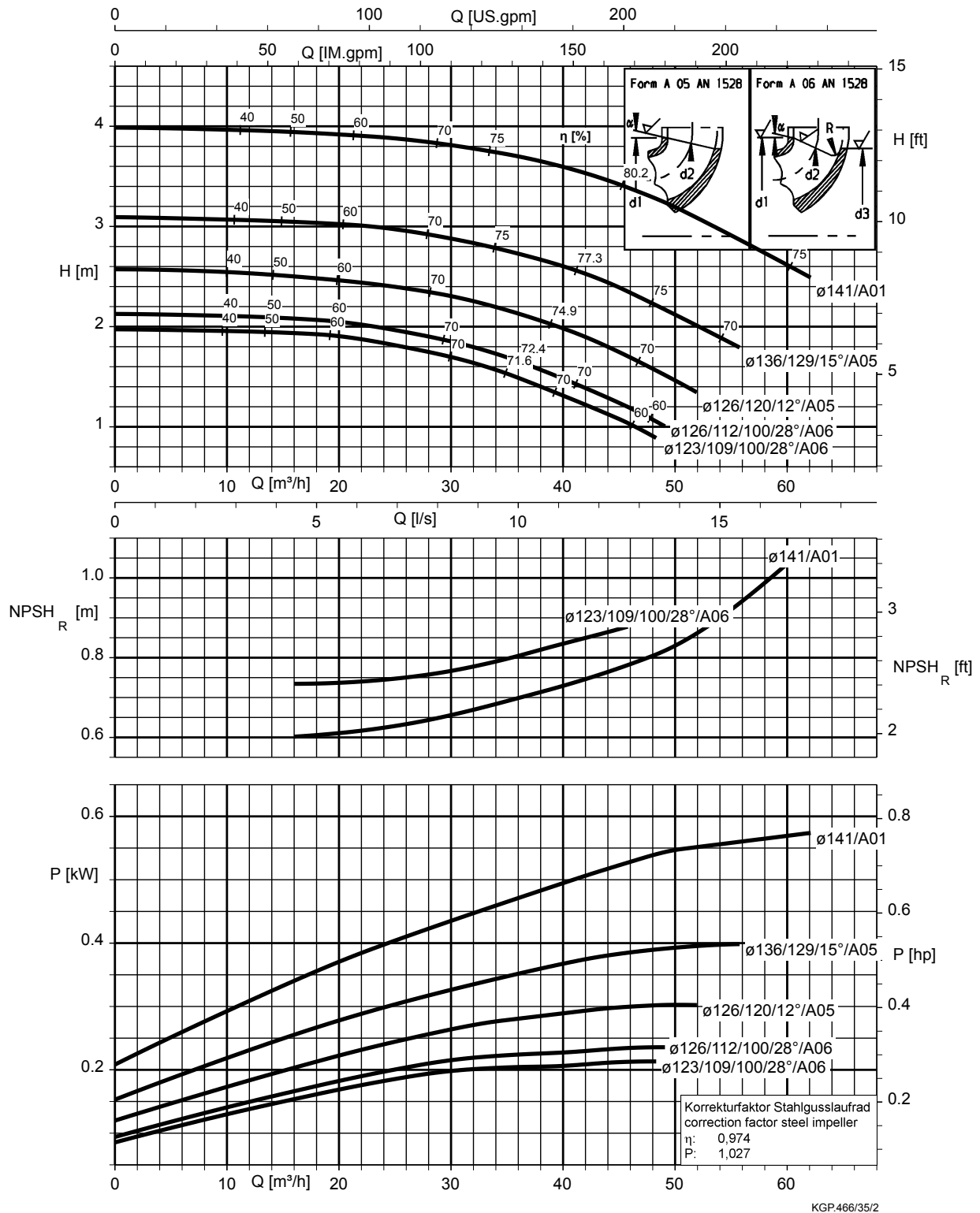
HPK-L, Magnochem, Magnochem-Bloc, Meganorm





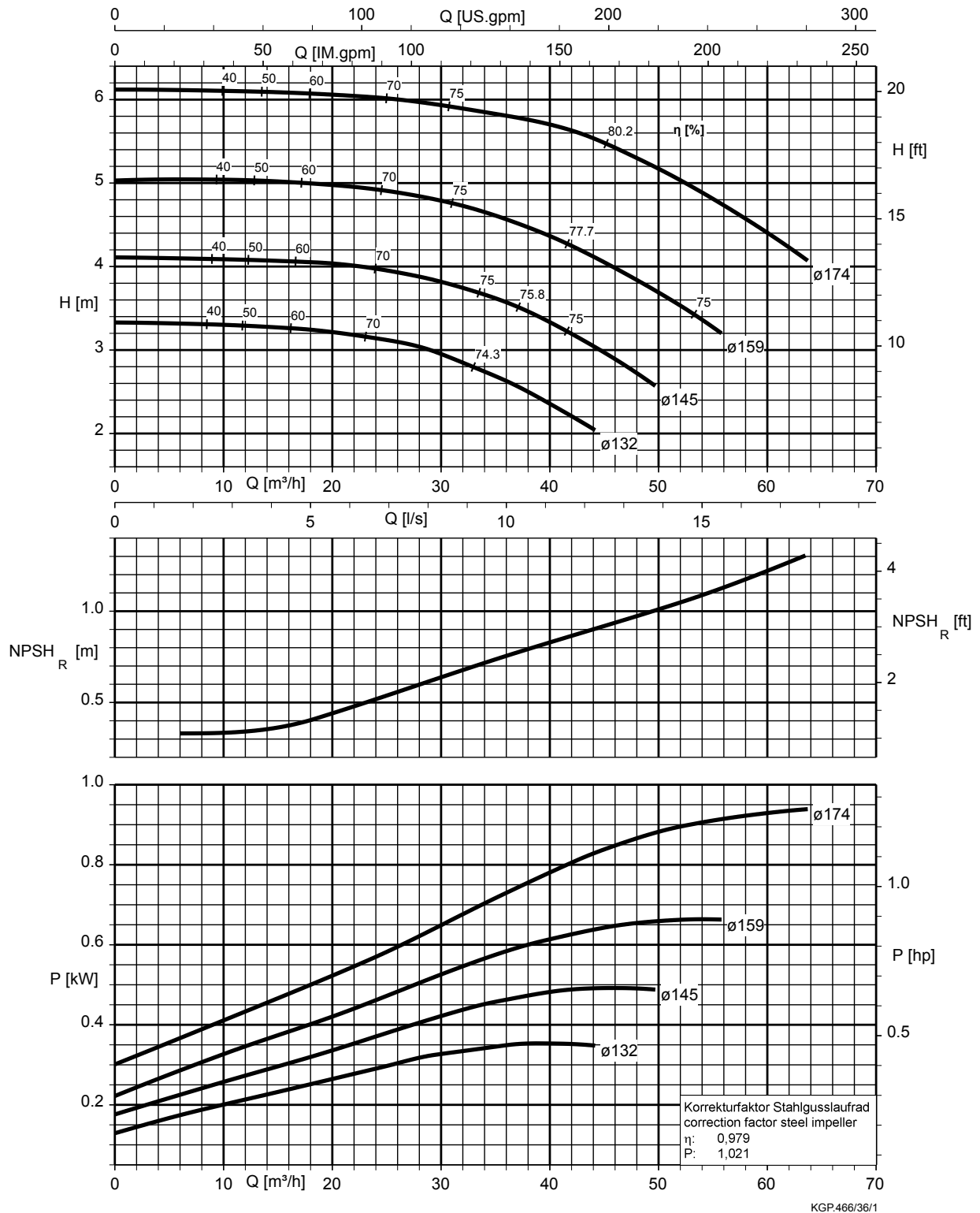
**MegaCPK 100-065-125, n = 1.160 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



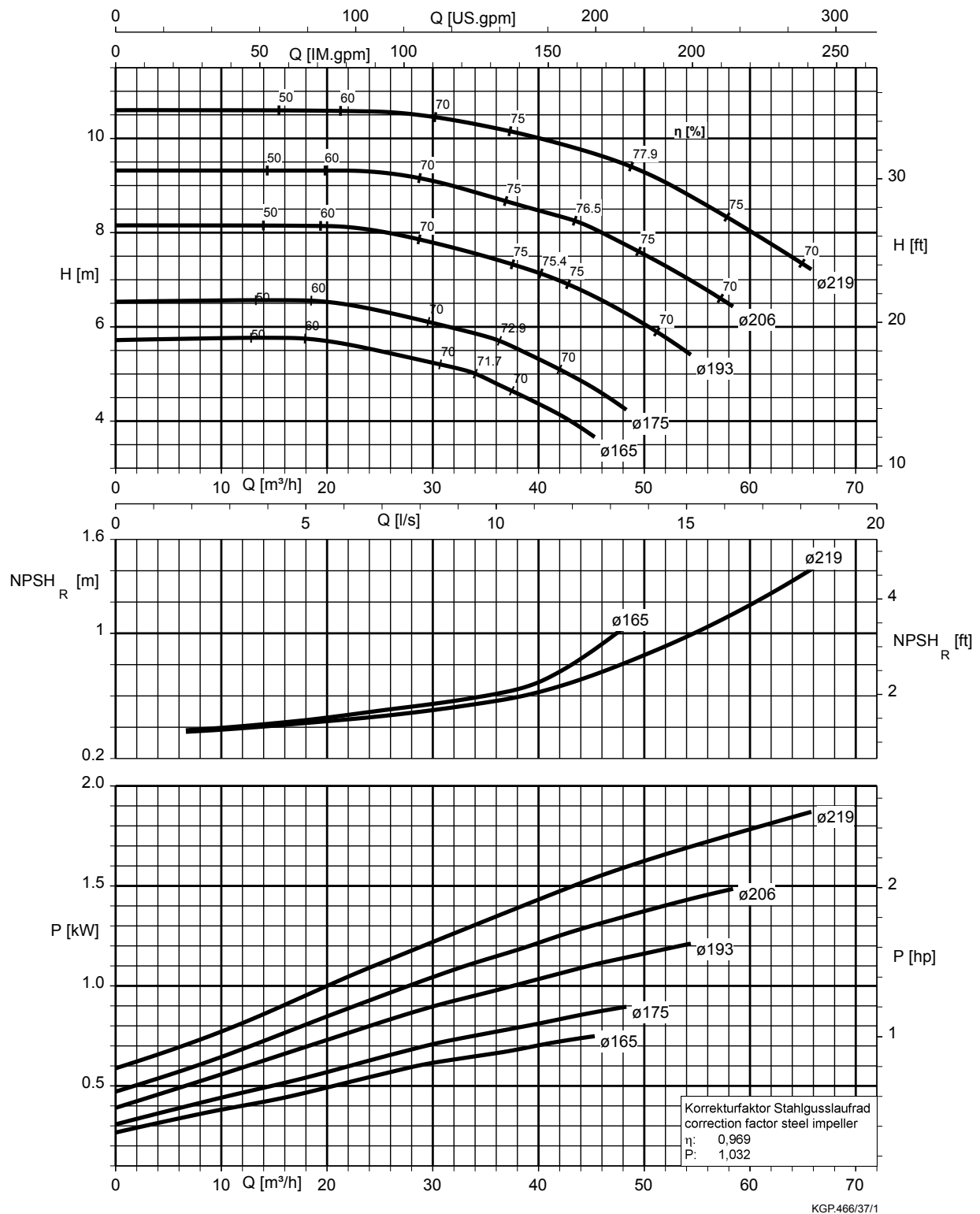
**MegaCPK 100-065-160, n = 1.160 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



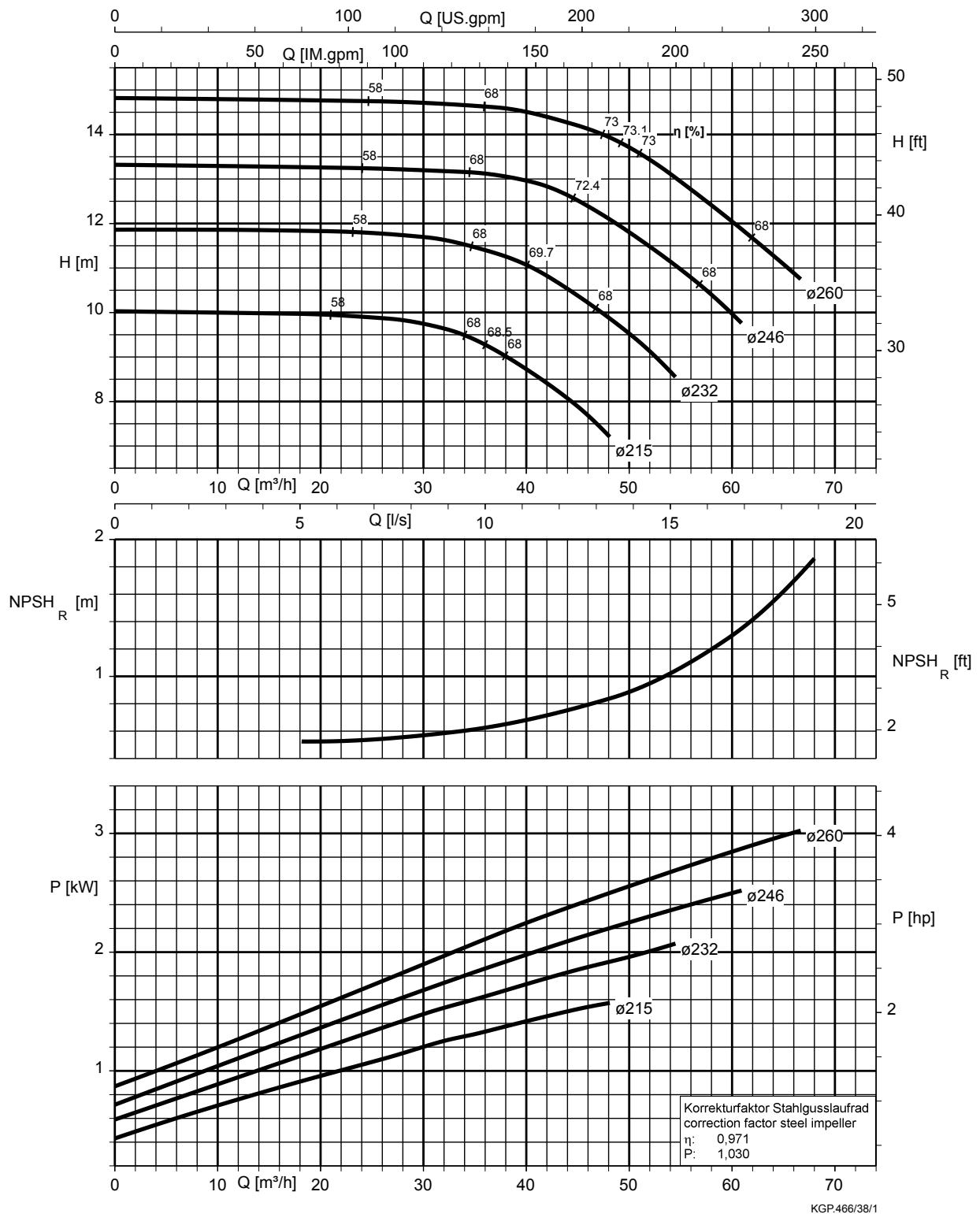
**MegaCPK 100-065-200, n = 1.160 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



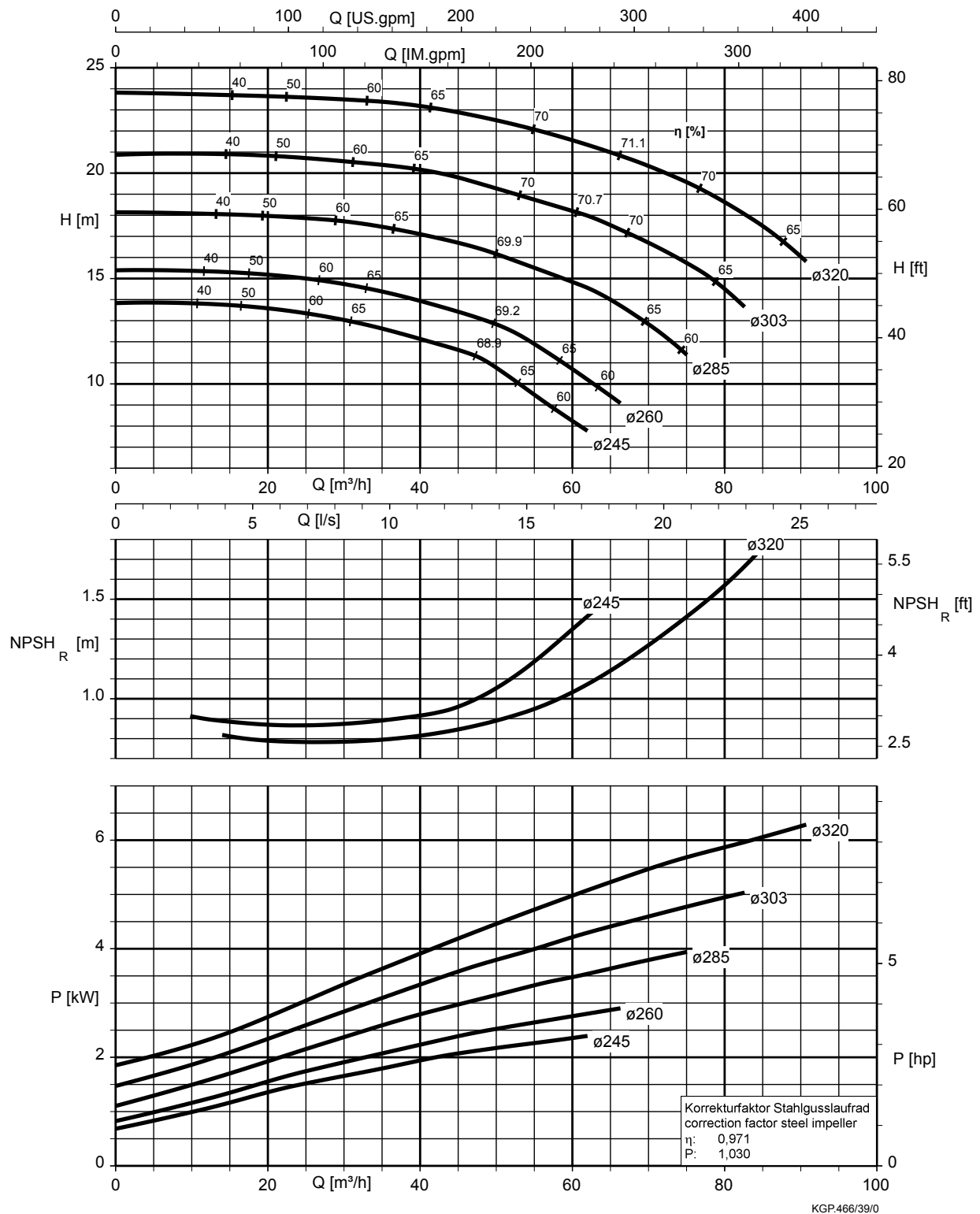
**MegaCPK 100-065-250, n = 1.160 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



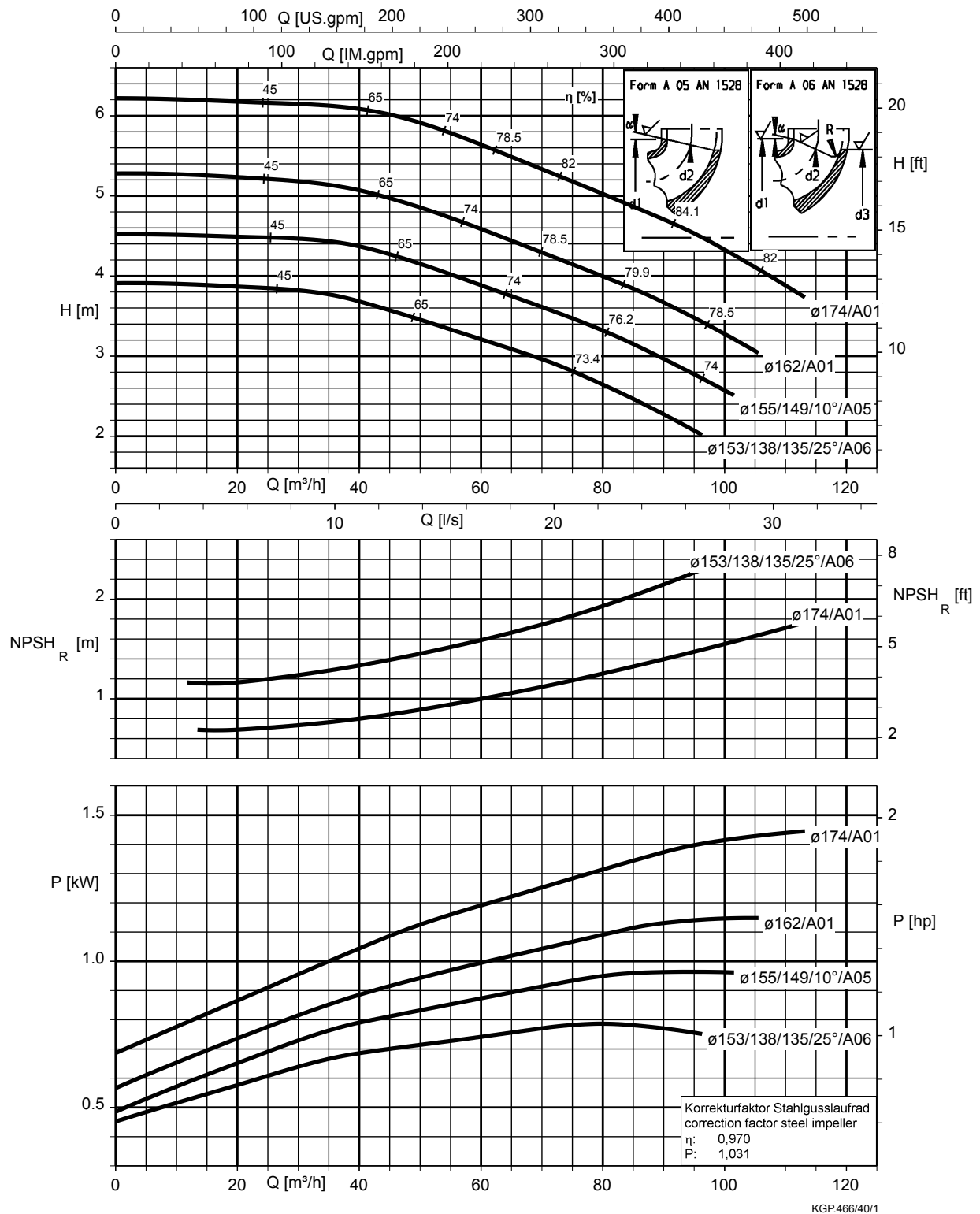
**MegaCPK 100-065-315, n = 1.160 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



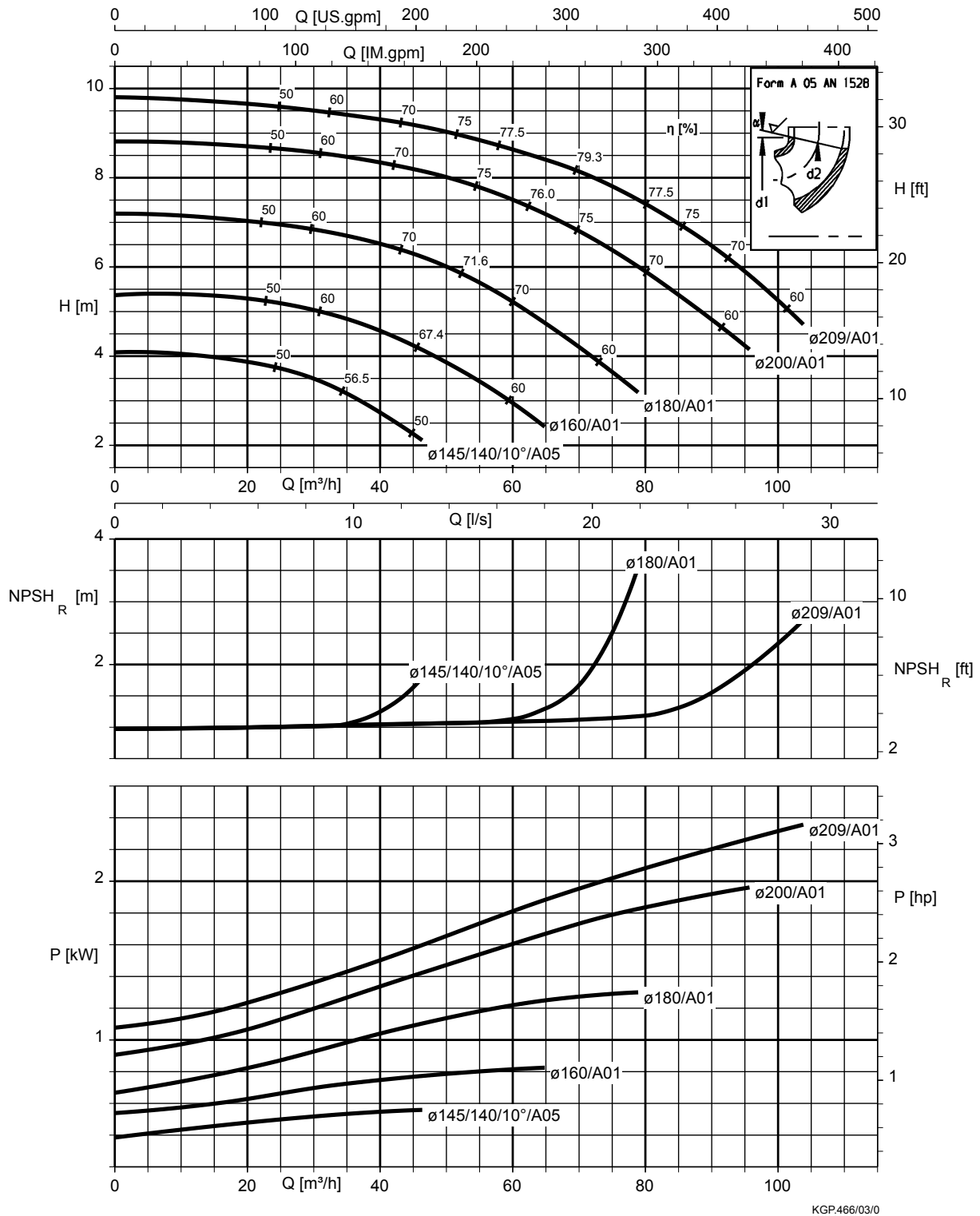
**MegaCPK 125-080-160, n = 1.160 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



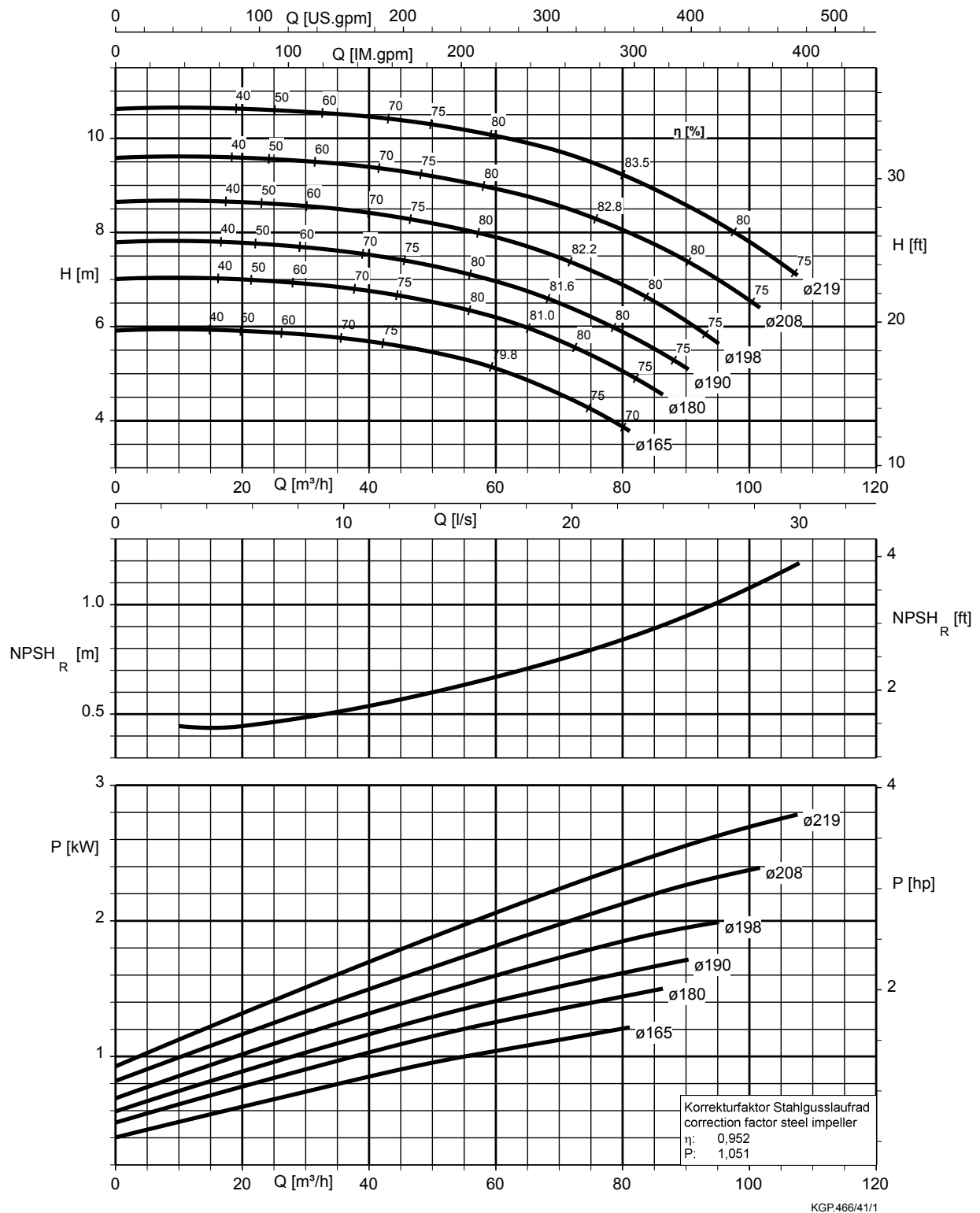
**MegaCPK 125-080-200.1, n = 1160 rpm**

Magnochem, Magnochem-Bloc



**MegaCPK 125-080-200, n = 1.160 rpm**

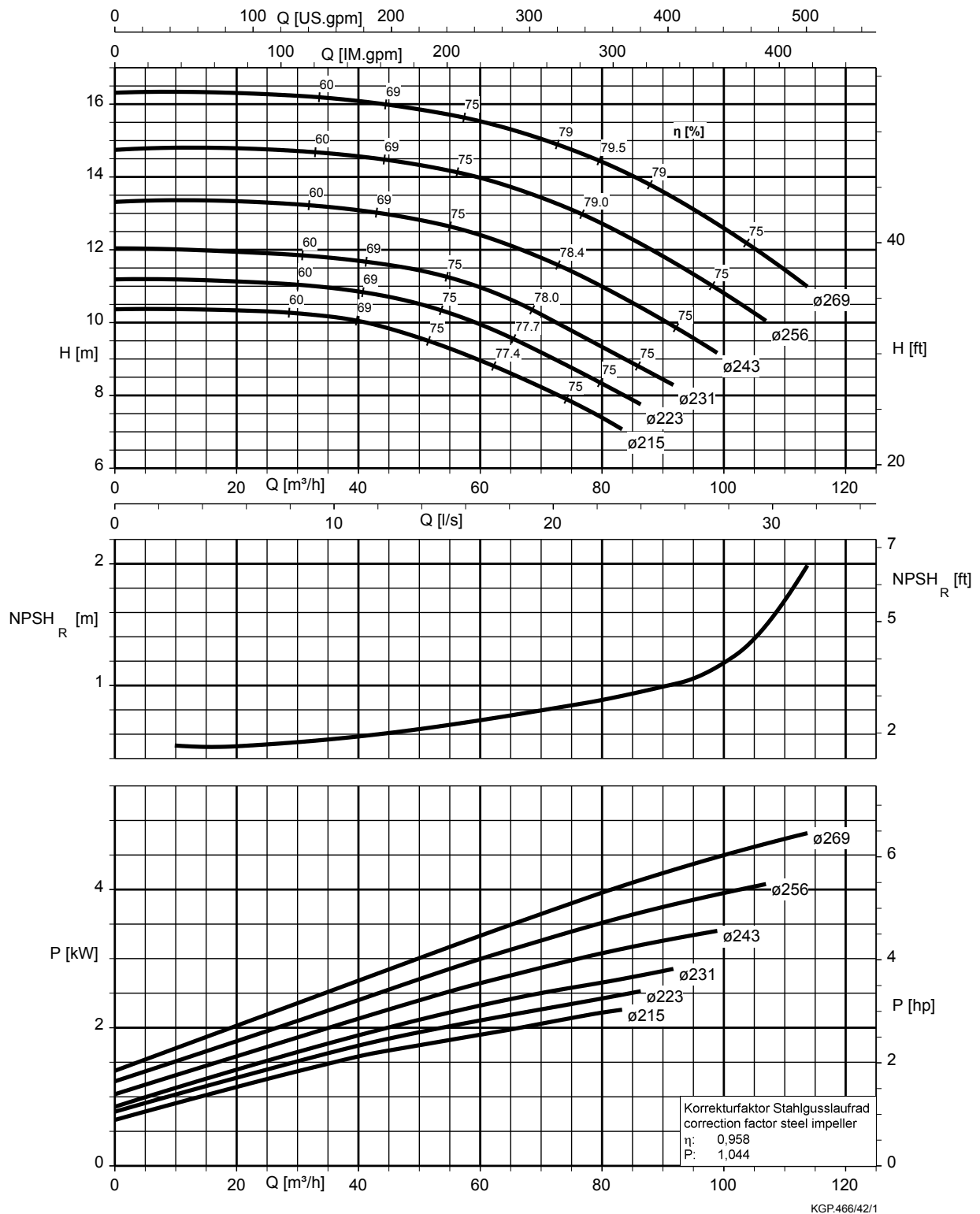
HPK-L, Magnochem, Magnochem-Bloc, Meganorm





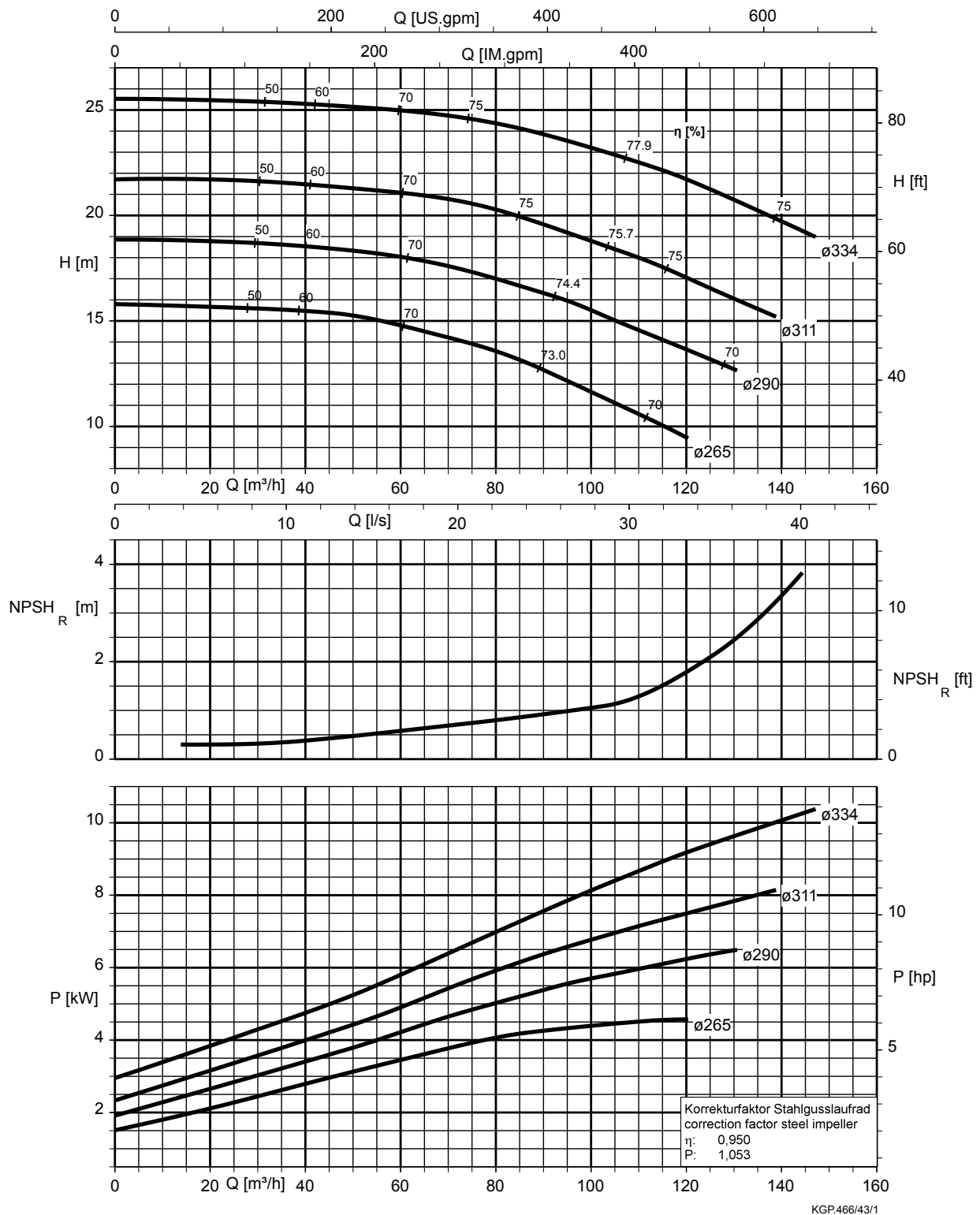
**MegaCPK 125-080-250, n = 1.160 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



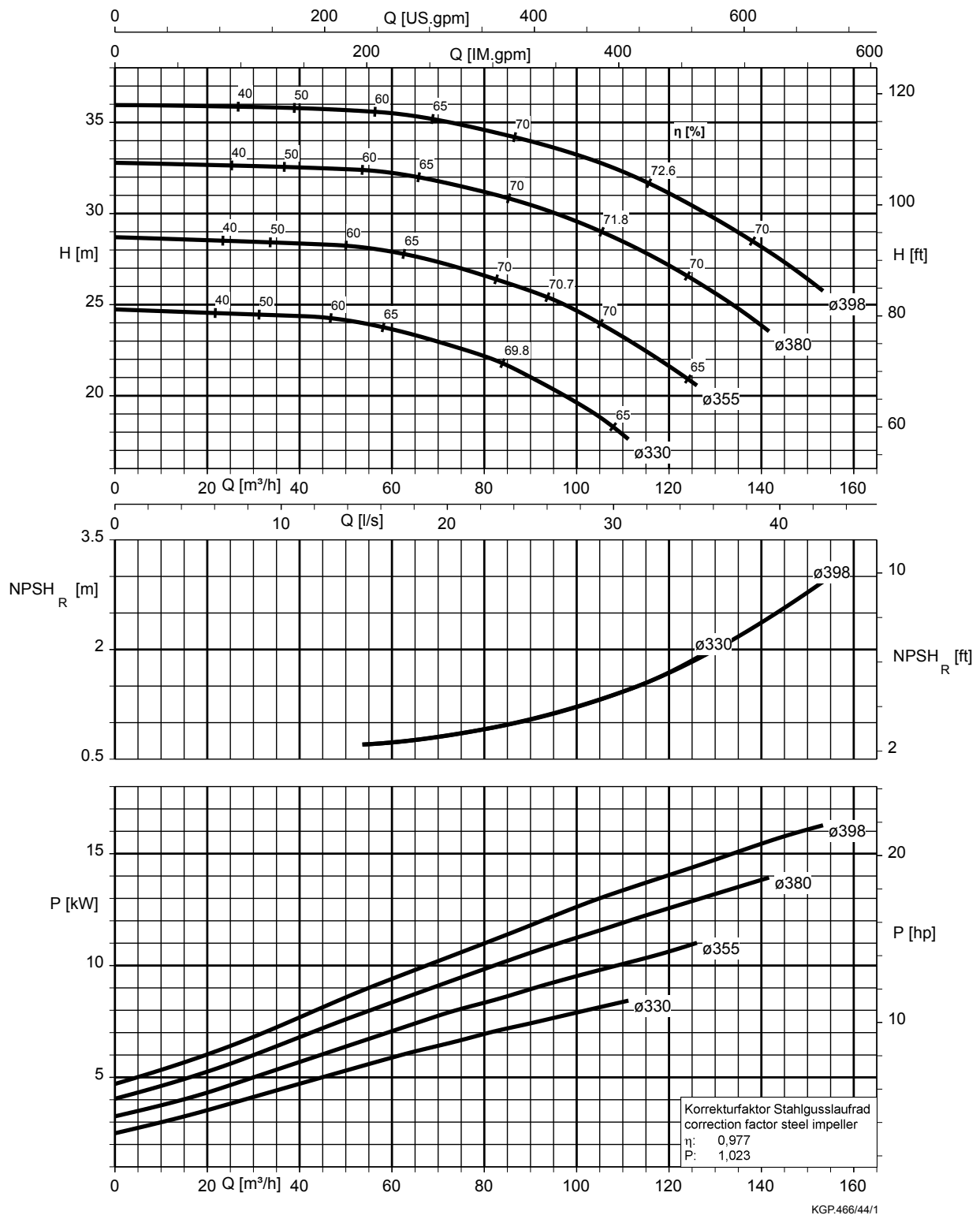
**MegaCPK 125-080-315, n = 1.160 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



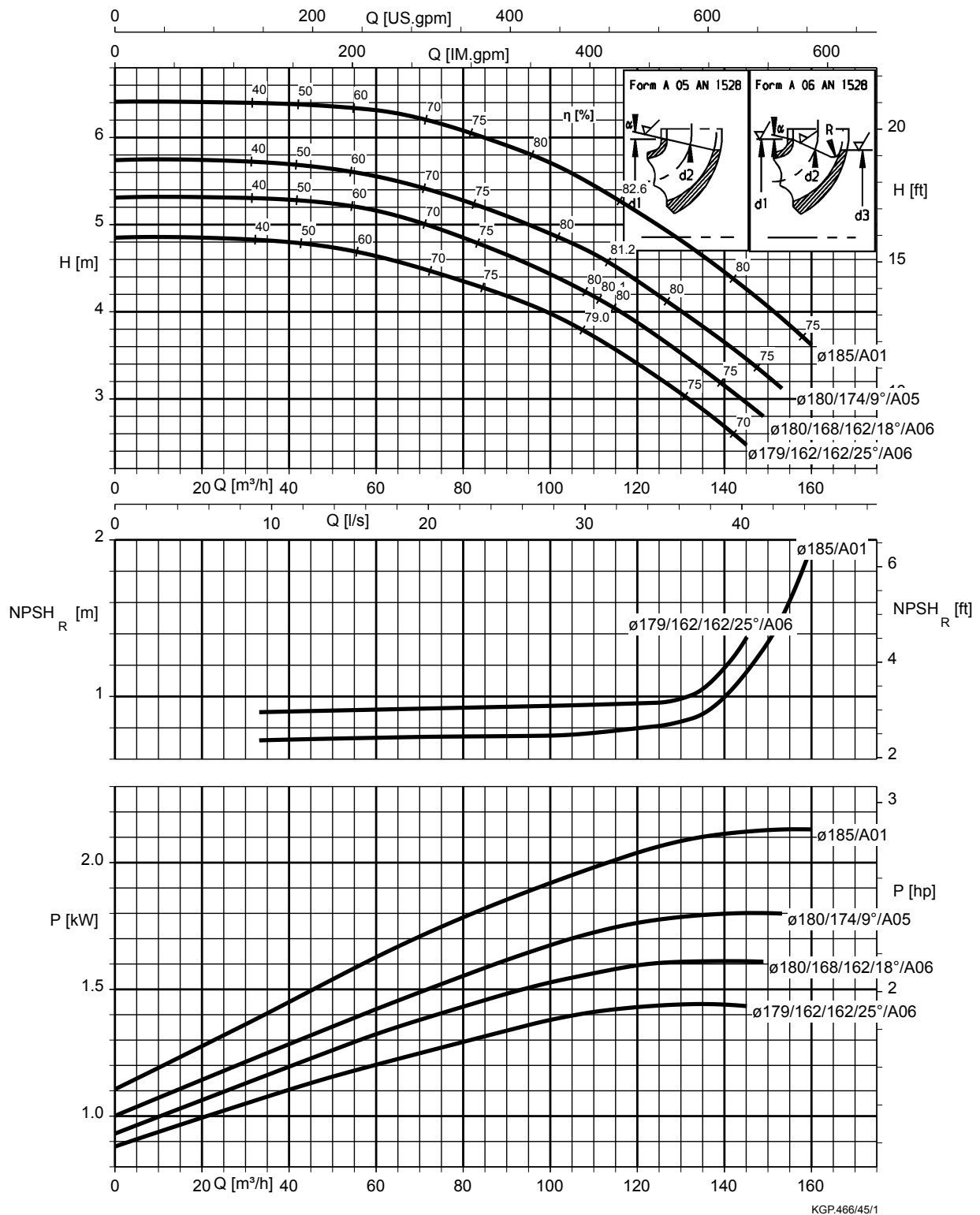
**MegaCPK 125-080-400, n = 1.160 rpm**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



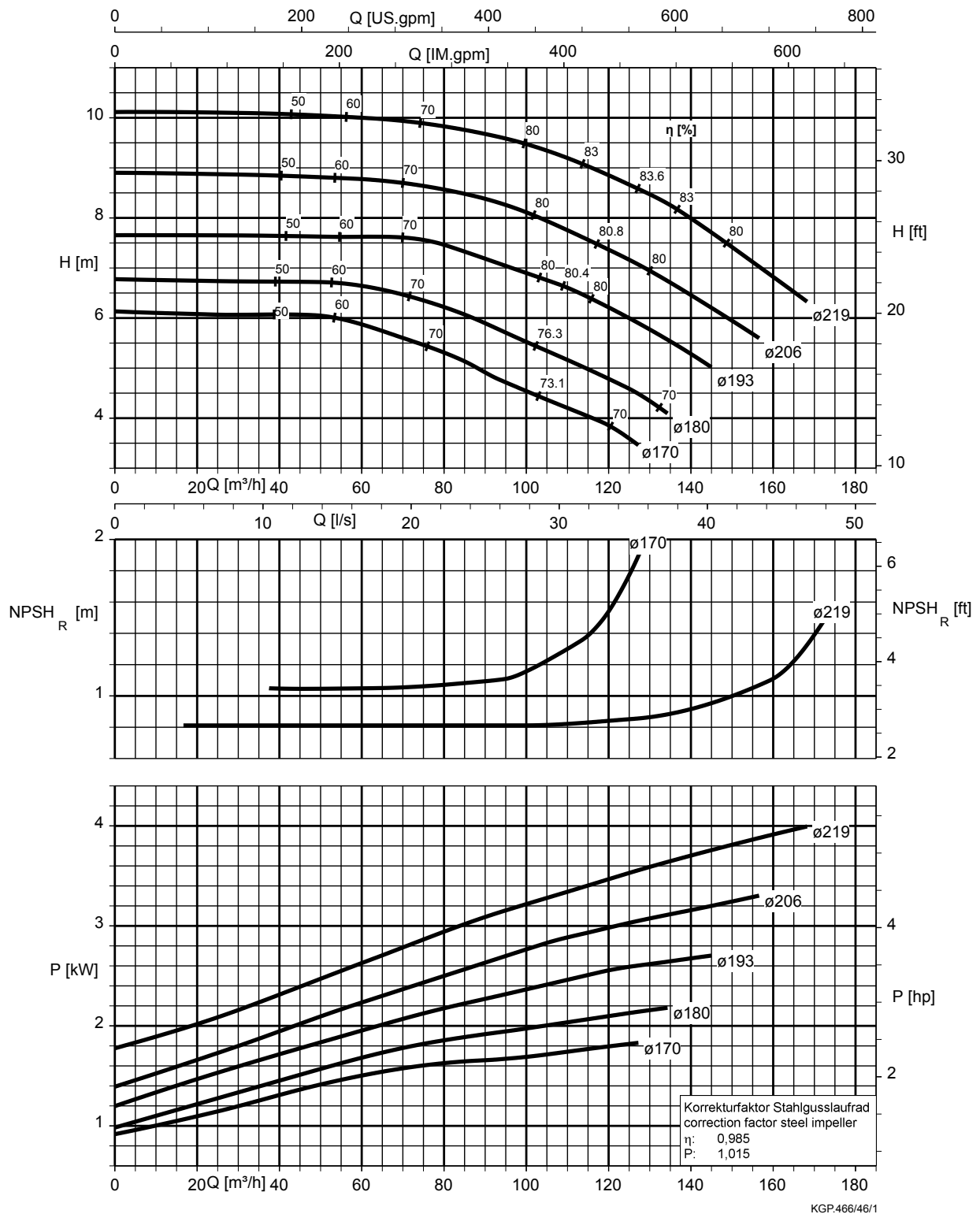
**MegaCPK 125-100-160, n = 1160 r.p.m.**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



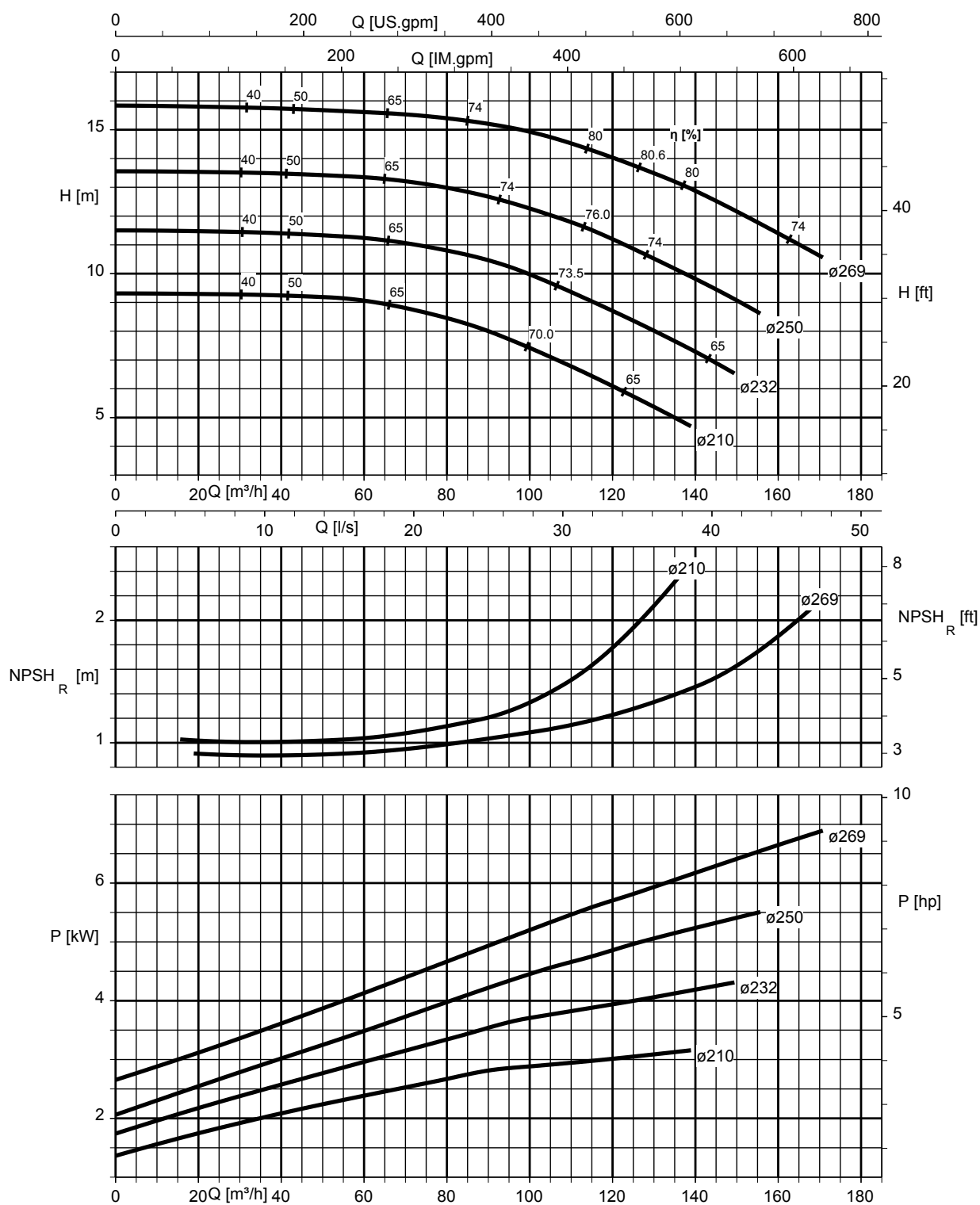
**MegaCPK 125-100-200, n = 1160 r.p.m.**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



**MegaCPK 125-100-250, n = 1160 r.p.m.**

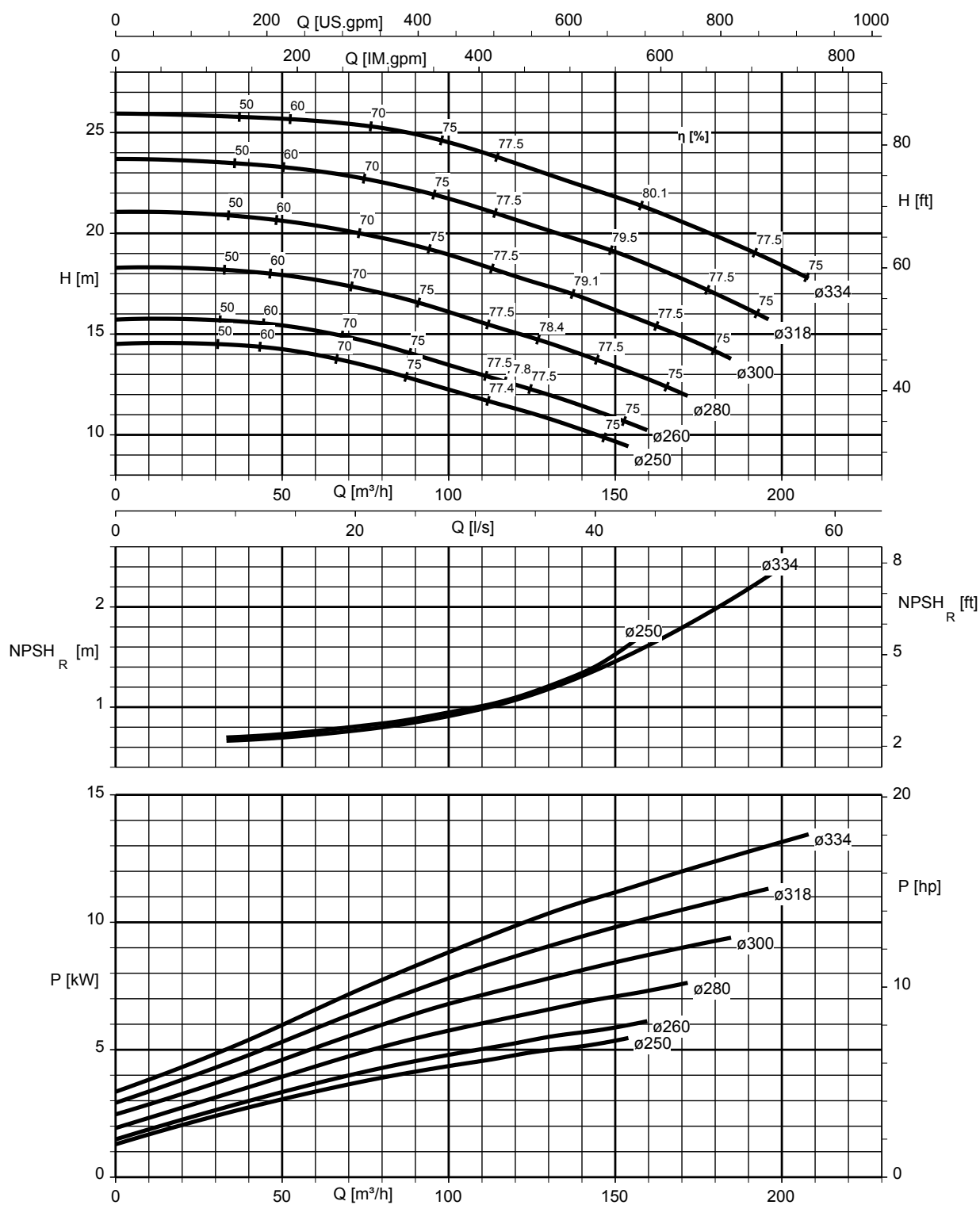
HPK-L, Magnochem, Magnochem-Bloc, Meganorm



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**MegaCPK 125-100-315, n = 1160 r.p.m.**

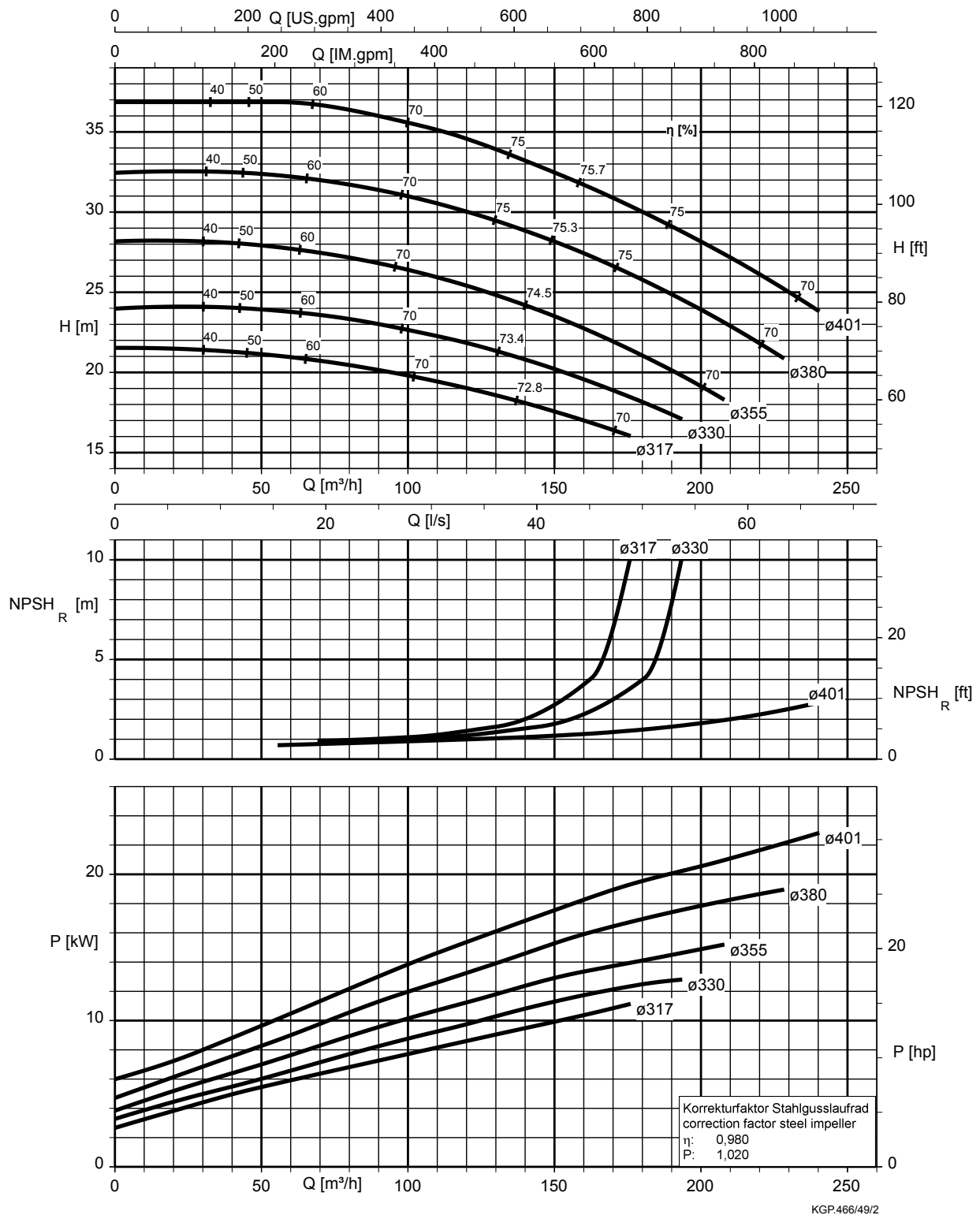
HPK-L, Magnochem, Magnochem-Bloc, Meganorm



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**MegaCPK 125-100-400, n = 1160 r.p.m.**

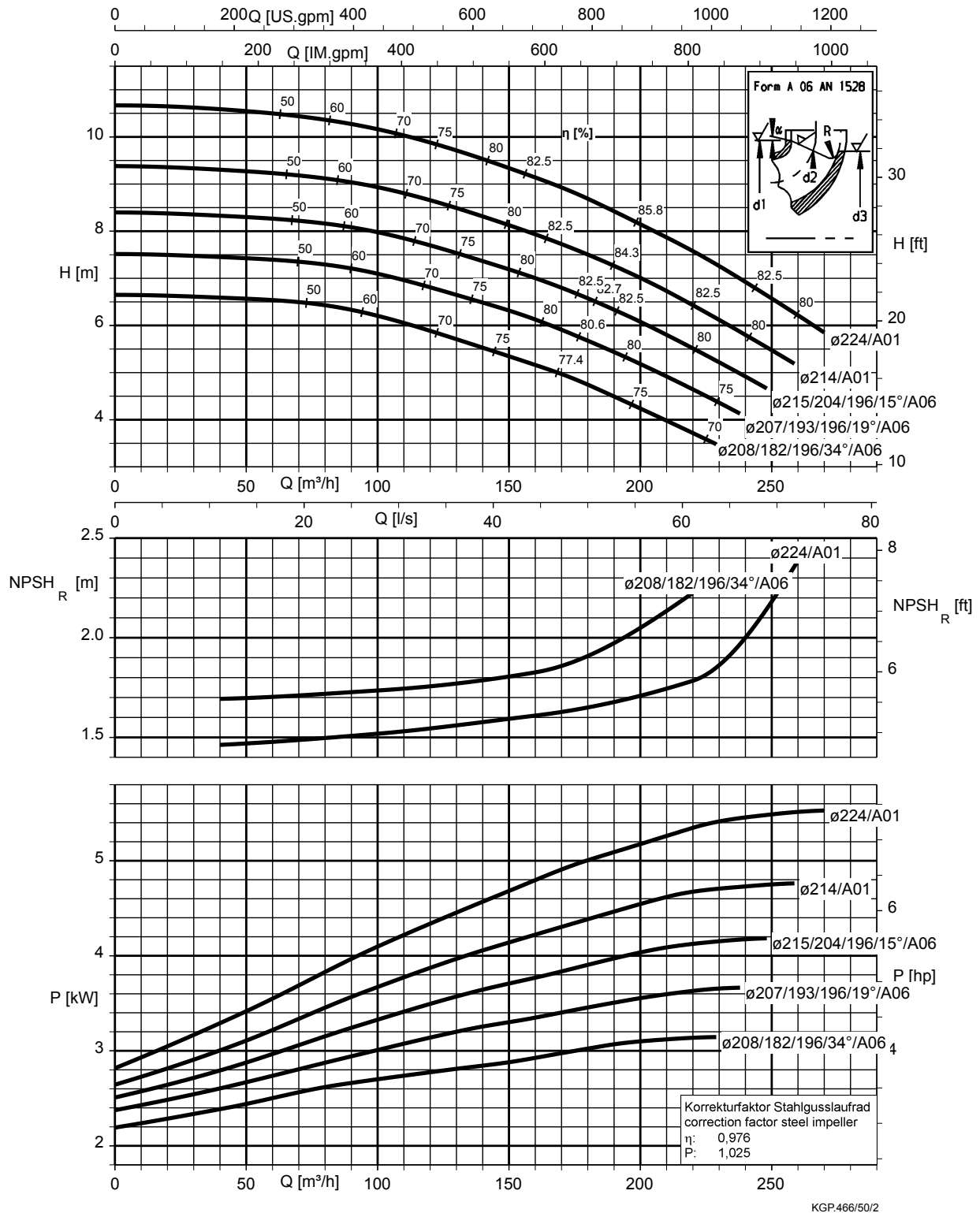
HPK-L, Magnochem, Magnochem-Bloc, Meganorm





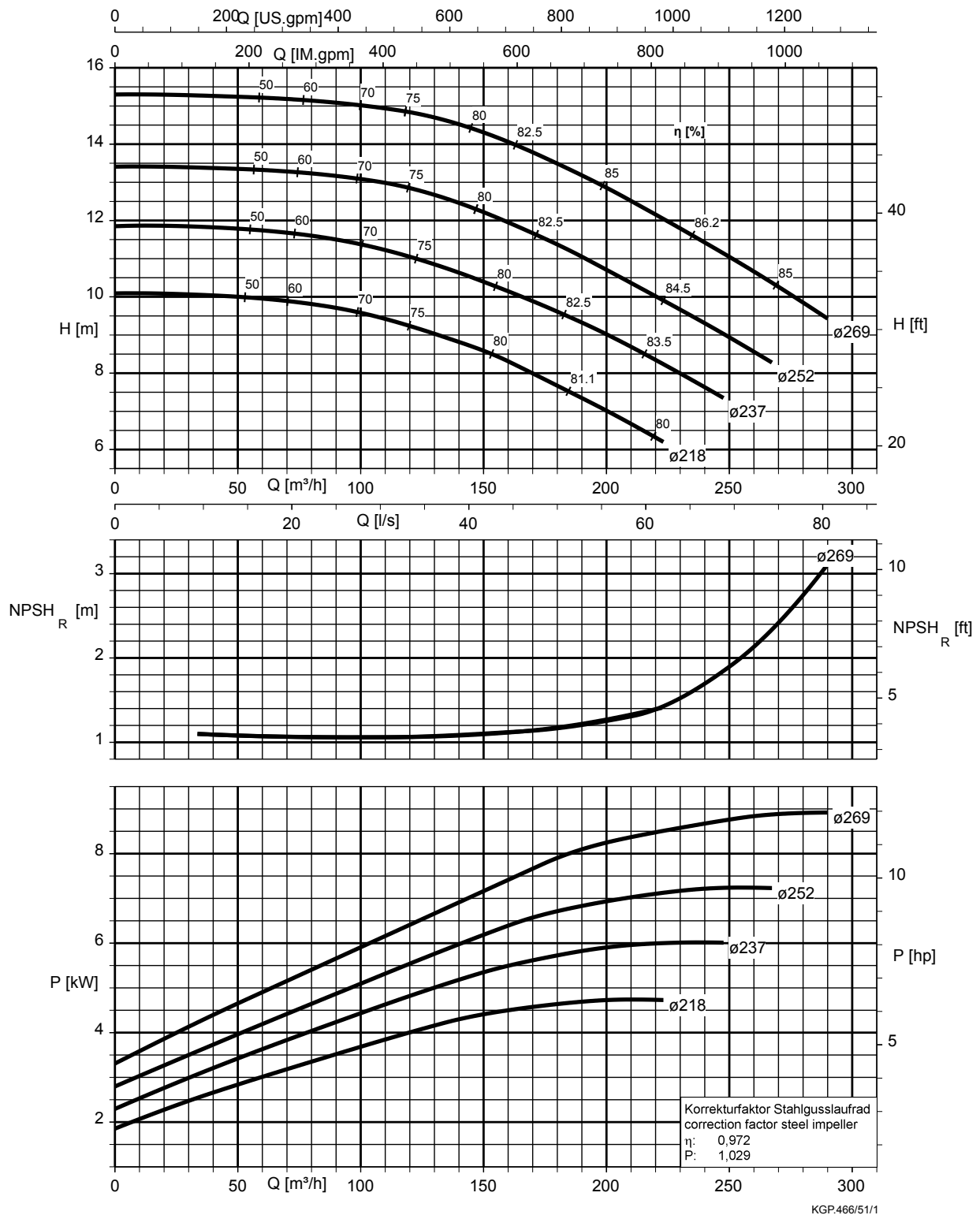
**MegaCPK 150-125-200, n = 1160 r.p.m.**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



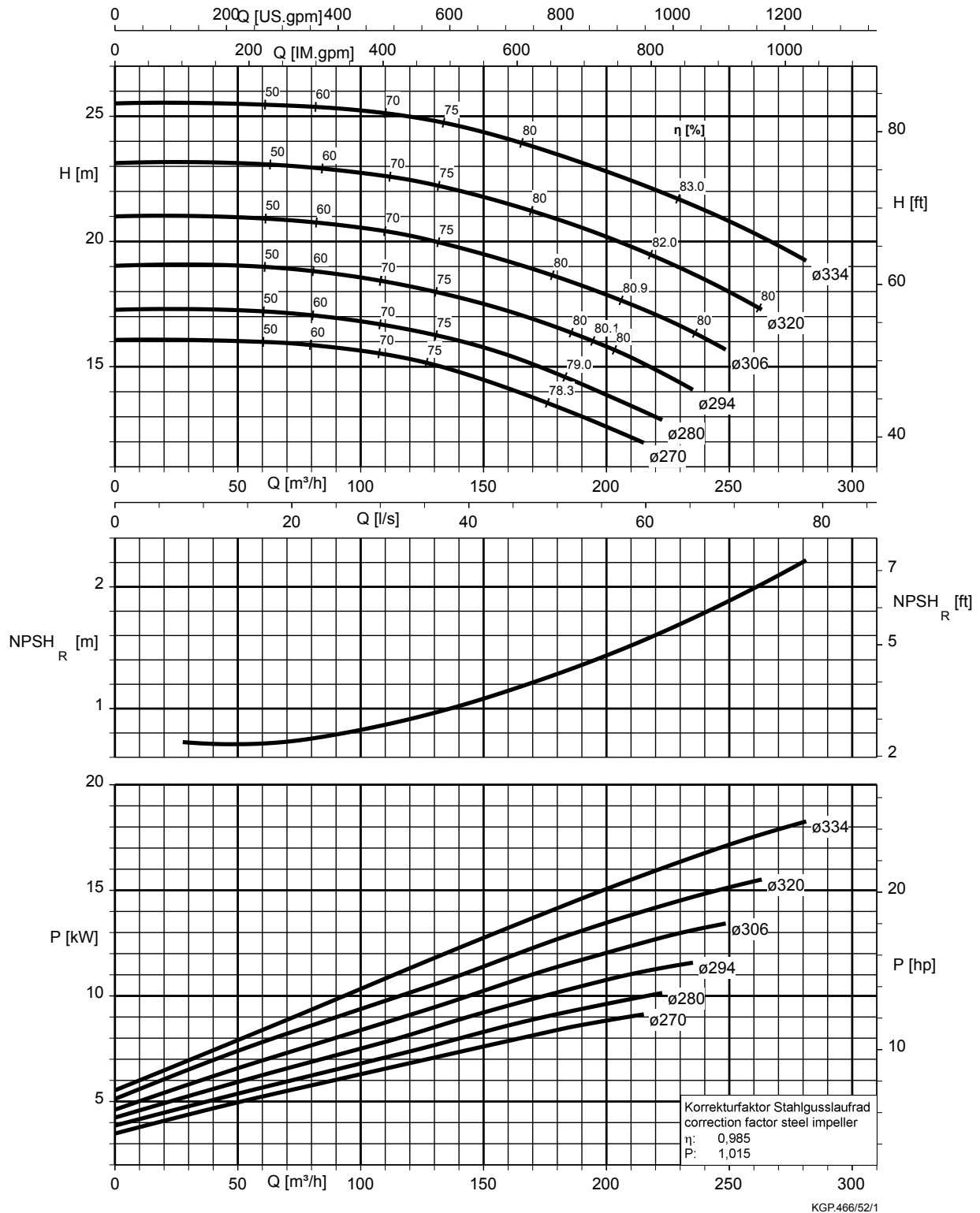
**MegaCPK 150-125-250, n = 1160 r.p.m.**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



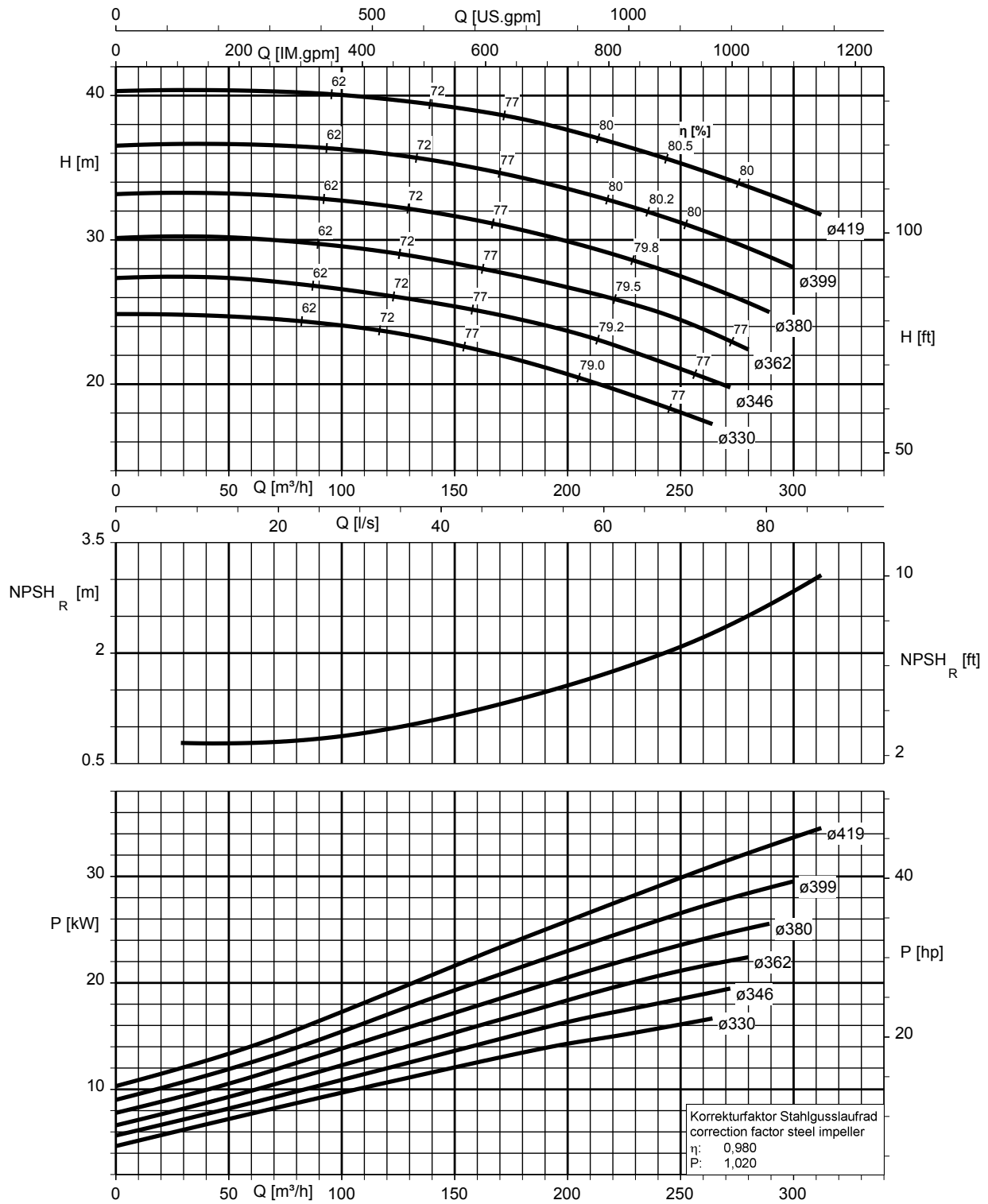
**MegaCPK 150-125-315, n = 1160 r.p.m.**

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



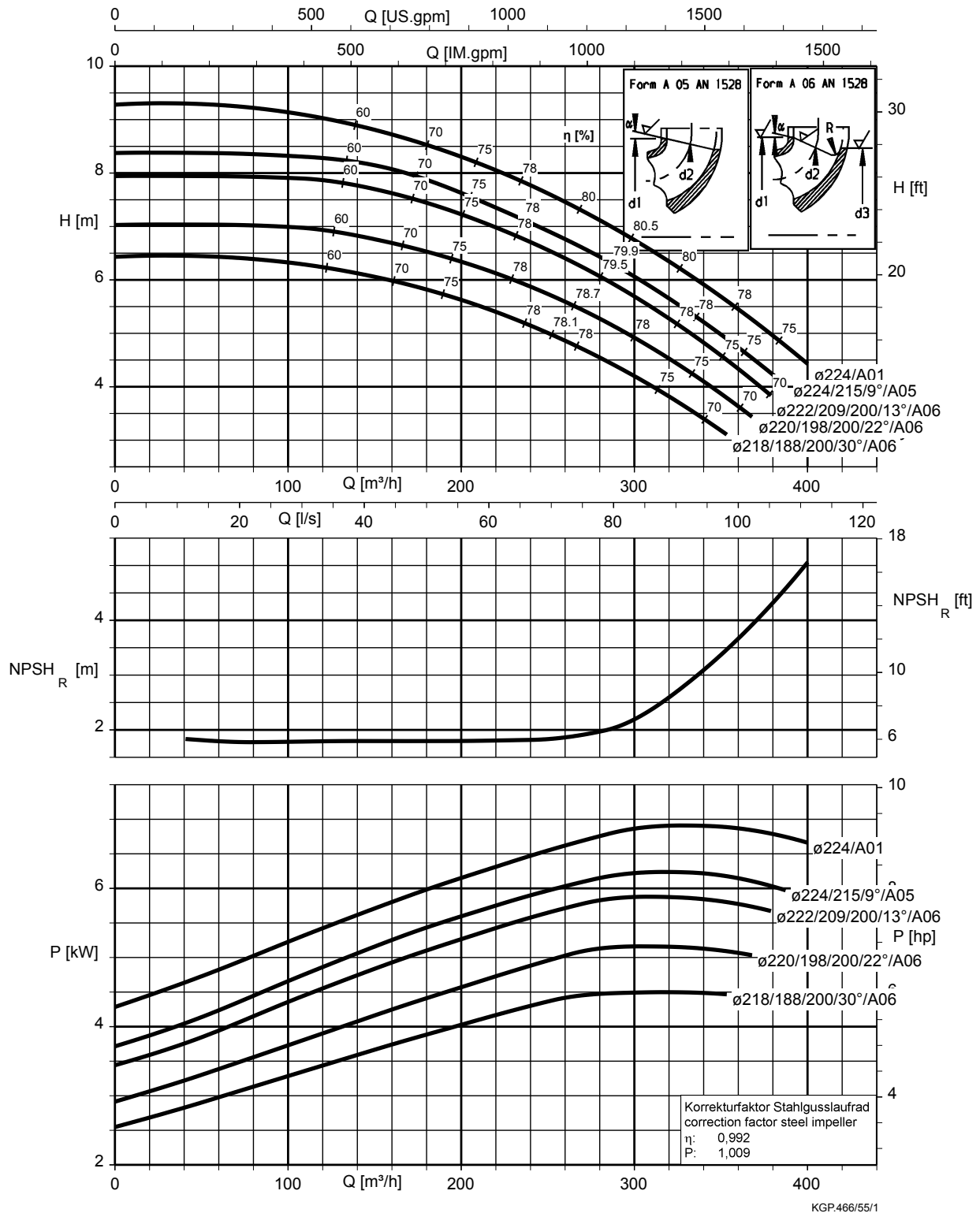
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HPK-L, Magnochem, Magnochem-Bloc, Meganorm



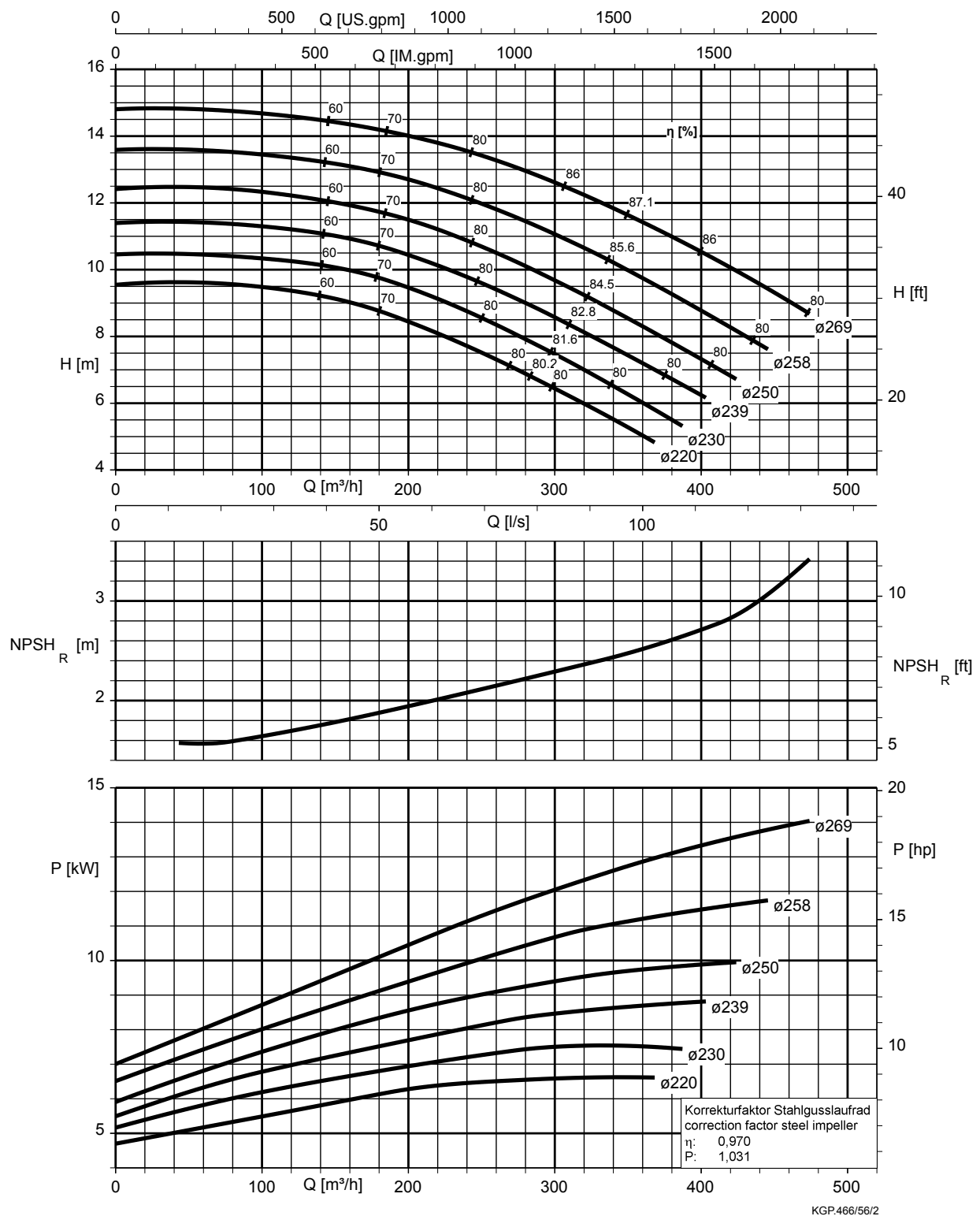
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HPK-L, Magnochem, Magnochem-Bloc, Meganorm



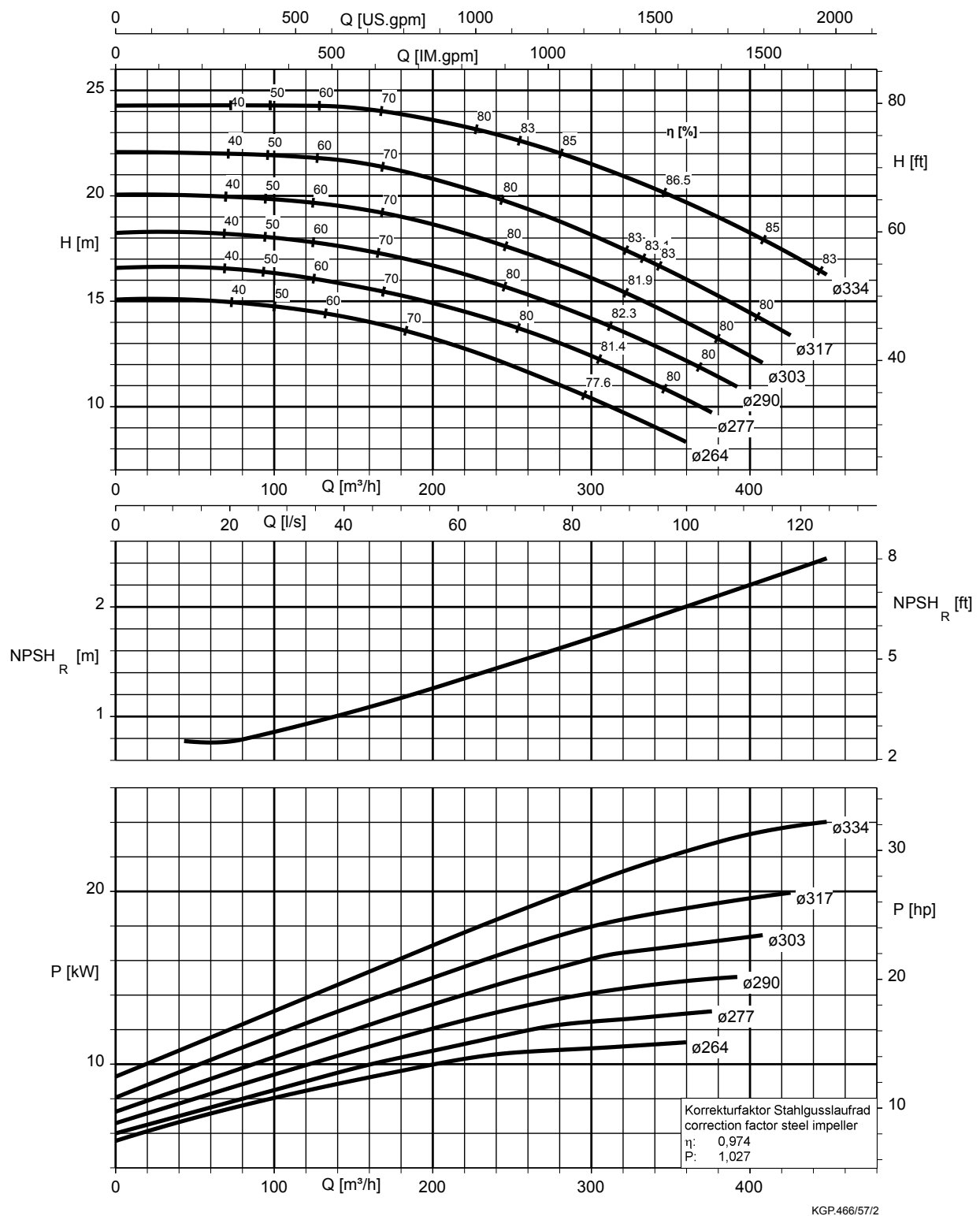
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HPK-L, Magnochem, Magnochem-Bloc, Meganorm



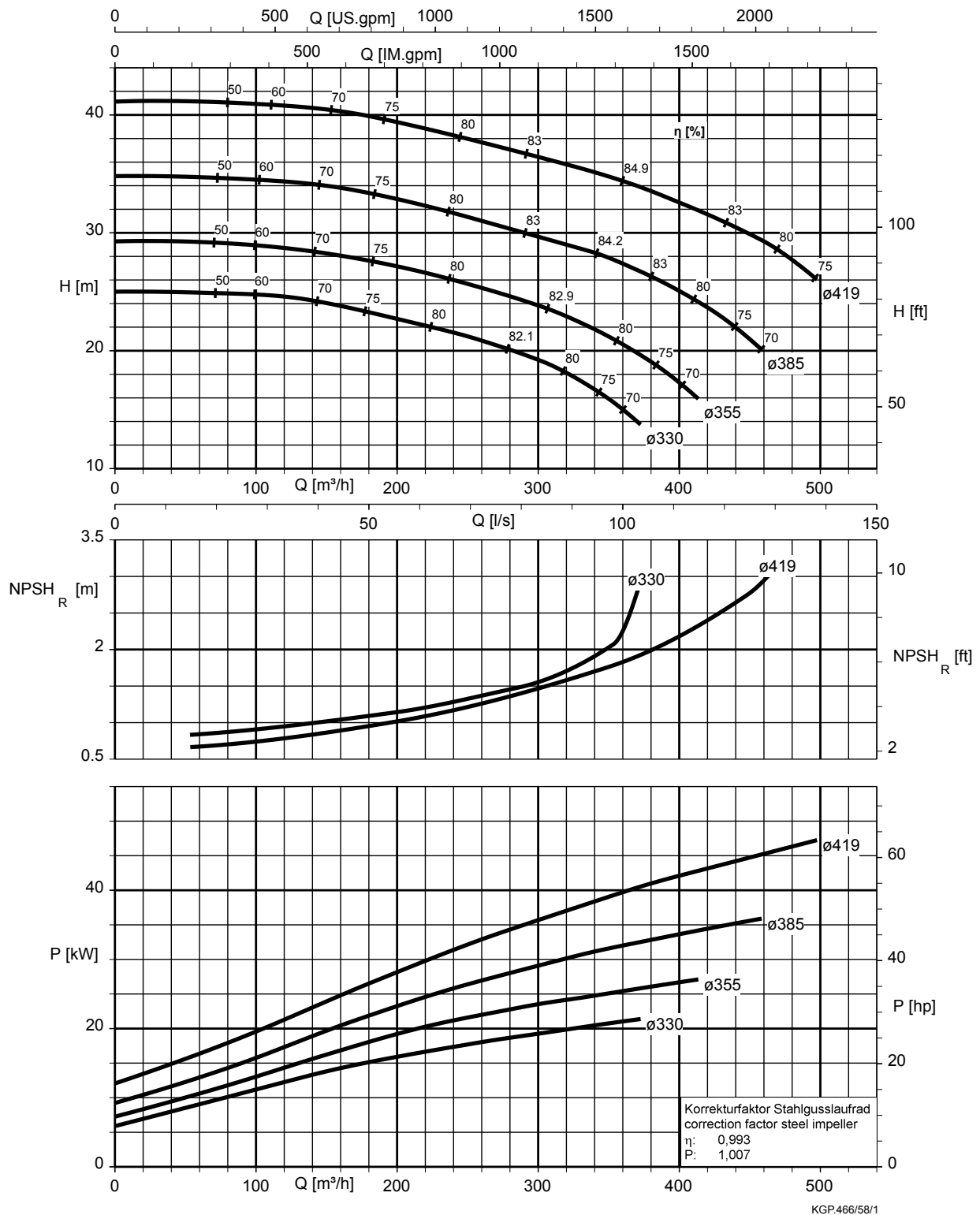
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HPK-L, Magnochem, Meganorm



**MegaCPK 200-150-400, n = 1160 r.p.m.**

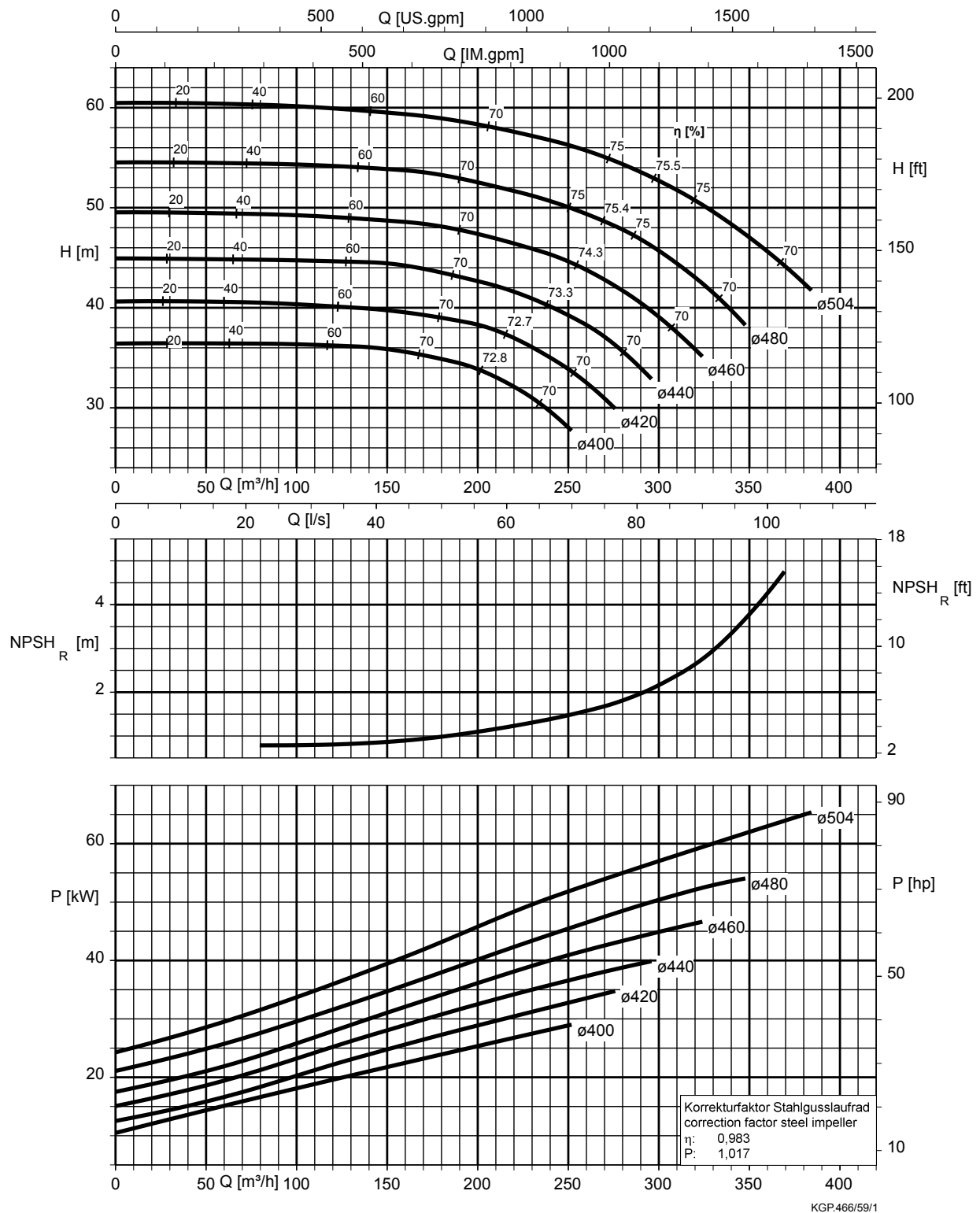
HPK-L, Magnochem, Meganorm





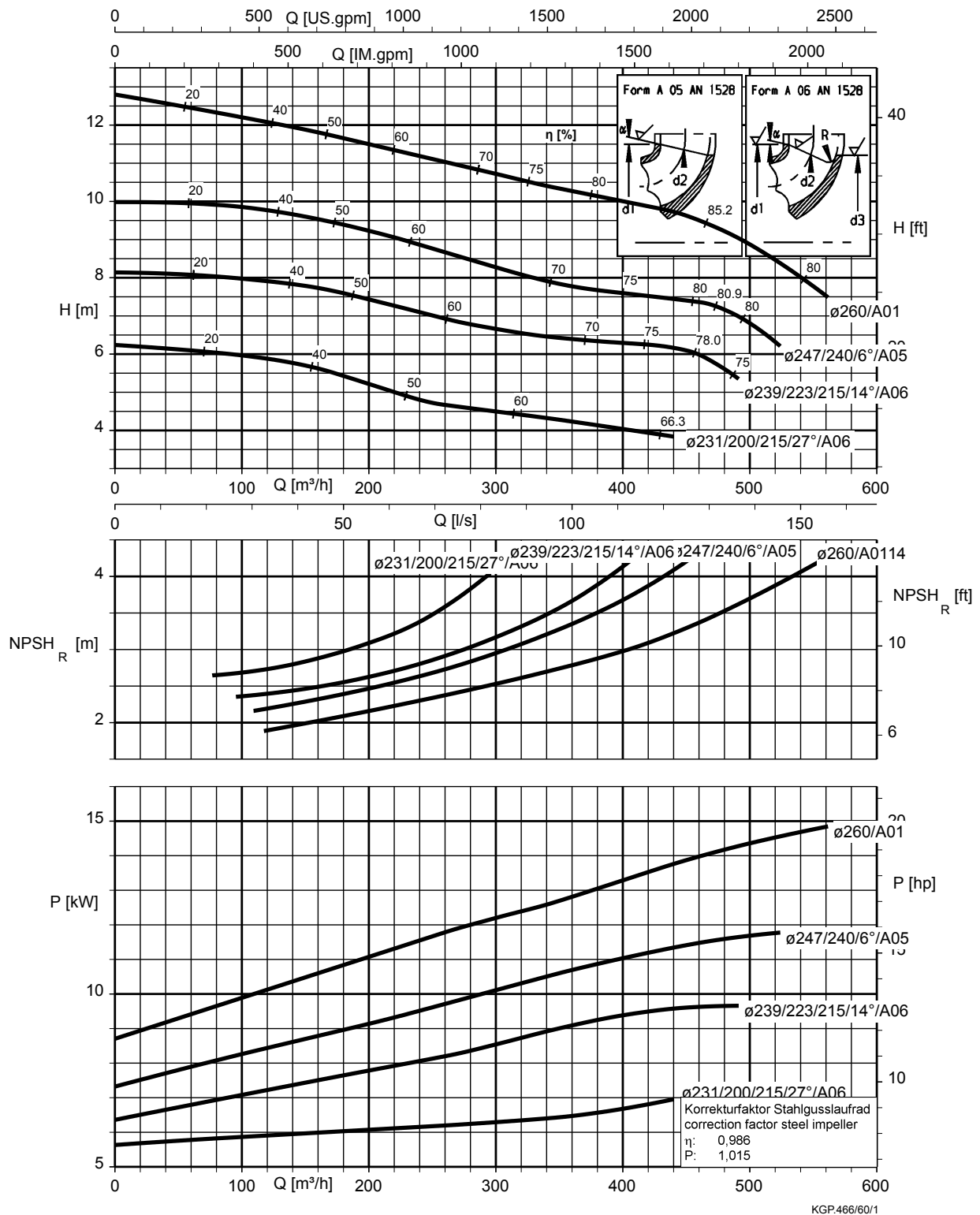
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HPK-L, Magnochem, Meganorm



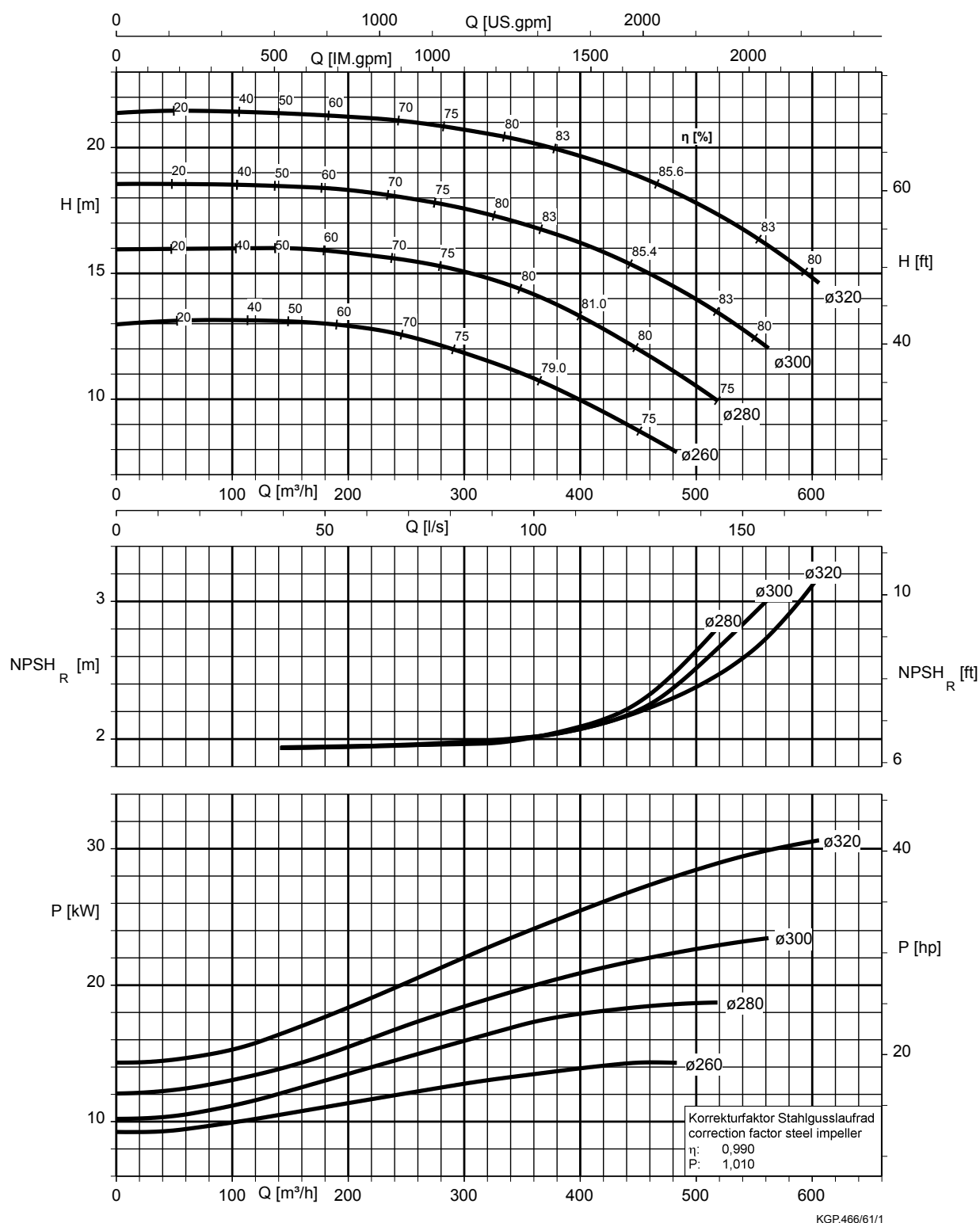
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HPK-L, Magnochem, Meganorm



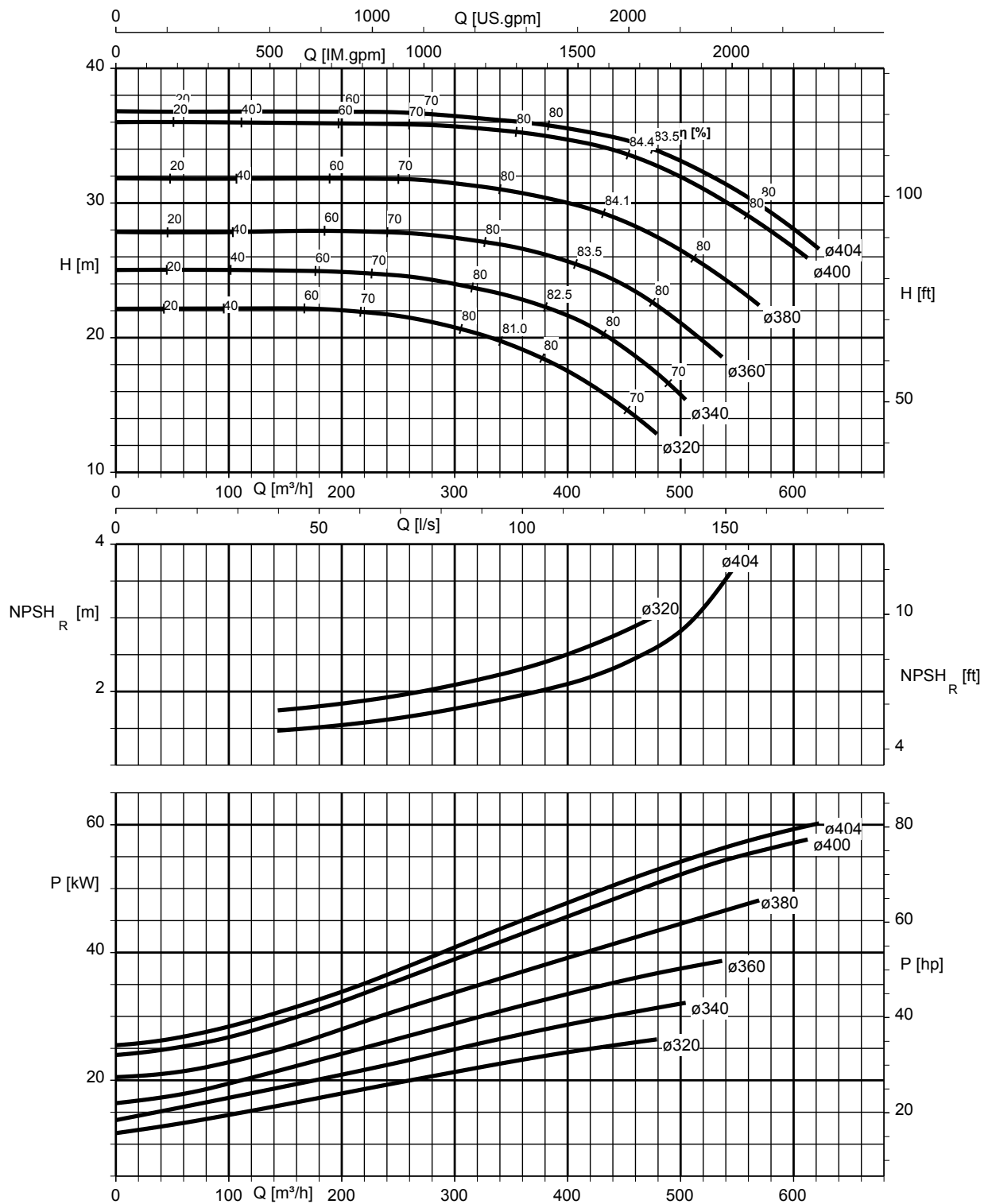
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HPK-L, Magnochem, Meganorm



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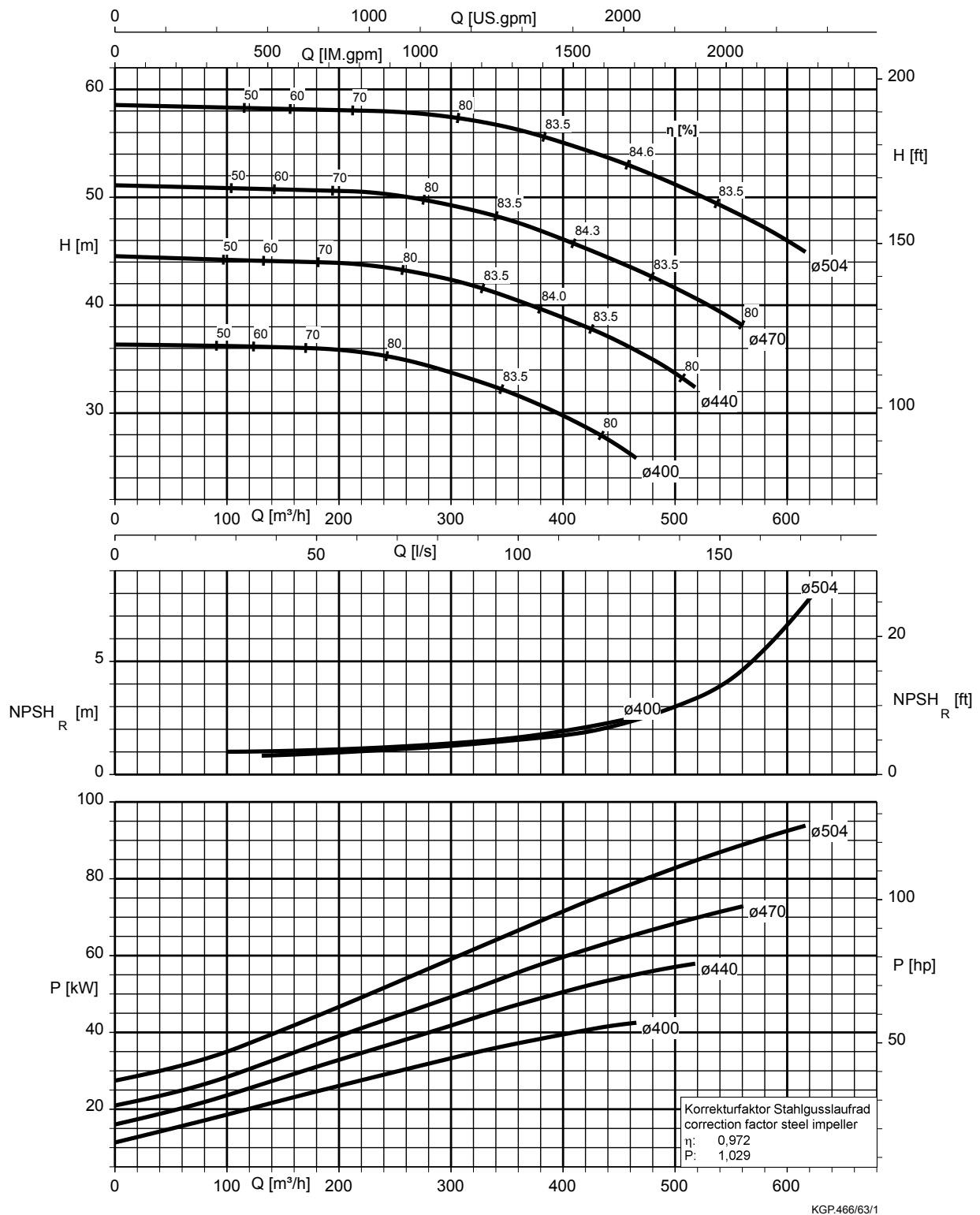
HPK-L, Magnochem, Meganorm



KGP.466/62/1

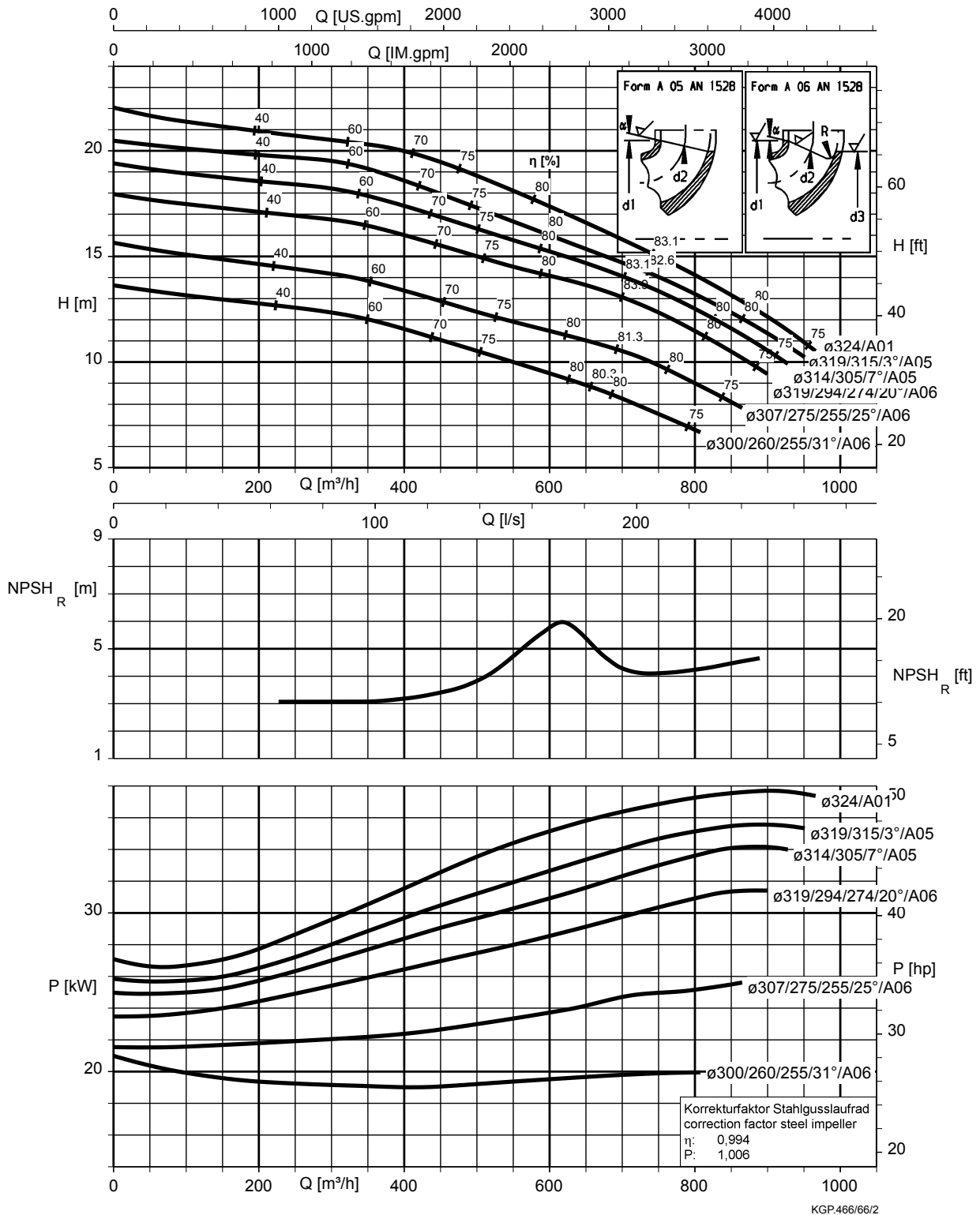
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HPK-L, Magnochem, Meganorm



**MegaCPK 300-250-315, n = 1160 r.p.m.**

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