

60 Hz

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

Characteristic Curves Booklet



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Characteristic Curves Booklet 60 Hz

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Contents

Centrifugal Pumps	4
Standardised Chemical Pumps	4
MegaCPK, HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc	4
General	4
Overview of sizes	5
Selection charts	6
MegaCPK, Magnochem, Magnochem-Bloc, Meganorm, Megabloc, n = 3500 rpm	6
HPK-L, n = 3500 rpm	7
MegaCPK, Magnochem, Magnochem-Bloc, Meganorm, Megabloc, n = 1750 rpm	8
HPK-L, n = 1750 rpm	9
MegaCPK, Magnochem, Magnochem-Bloc, Meganorm, n = 1160 rpm	10
HPK-L, n = 1160 rpm	11
Characteristic curves	12
n = 3500 rpm	12
n = 1750 rpm	55
n = 1160 rpm	113

Centrifugal Pumps

Standardised Chemical Pumps

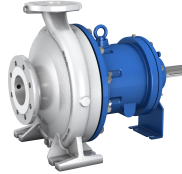
MegaCPK, HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



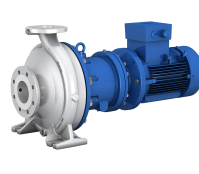
MegaCPK



HPK-L



Magnochem



Magnochem-Bloc



Meganorm



Megabloc

General

Acceptance test class: characteristic curves to ISO 9906 Class 2B

NPSH values

The NPSH values indicated in the characteristic curves correspond to a head drop of 3 %.

NPSH values in low-flow conditions

NPSH values for flow rates below $Q = 0.3 \times Q_{opt}$ can only be measured with intense technical efforts. Evidence of NPSH values in the low-flow range cannot be provided.

Density of the fluid handled

The indicated heads and performance data apply to pumped fluids with a density $\rho = 1.0 \text{ kg/dm}^3$ and a kinematic viscosity ν of up to $20 \text{ mm}^2/\text{s}$ max. If the density $\neq 1.0$, the performance data must be multiplied by ρ . For viscosities $>20 \text{ mm}^2/\text{s}$ the corresponding data for cold water has to be calculated and the impact on the pump's performance has to be determined.

Friction loss

For some design variants (reinforced bearings, specific shaft seals) friction losses must be considered and indicated as additional power requirement in the data sheet.

Correction factors

The characteristic curves apply to pumps with cast iron or bronze impellers. When using an impeller made of cast steel materials the efficiency and pump power of the corresponding pump sizes have to be multiplied by the correction factors indicated in the characteristic curves.

Impeller trimming

Impellers of all diameters can be trimmed right down to the minimum diameter indicated.

Operating limits

Observe the operating limits resulting from the specific materials or designs used.

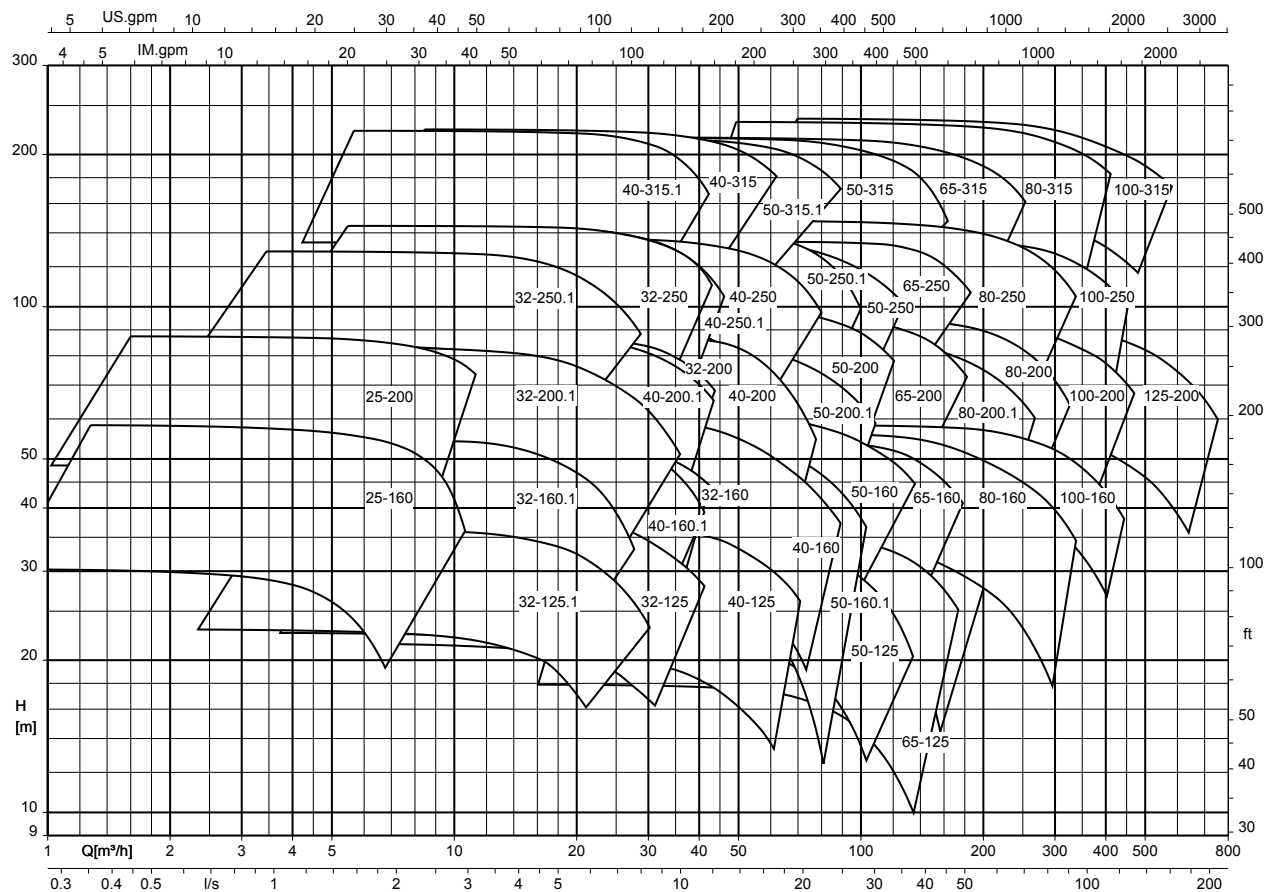
Overview of sizes

Overview of sizes

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

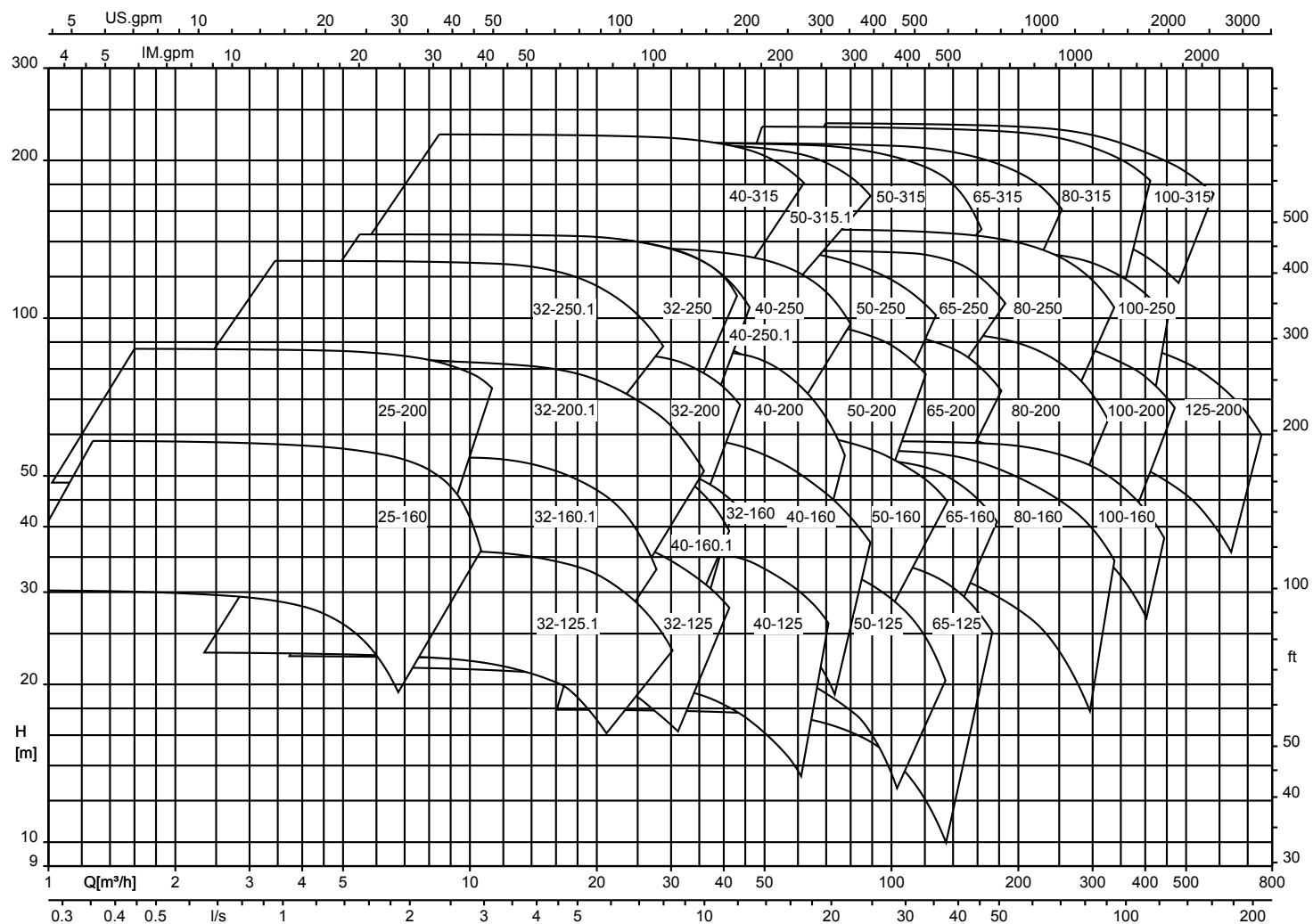
Selection charts

MegaCPK, Magnochem, Magnochem-Bloc, Meganorm, Megabloc, $n = 3500$ rpm

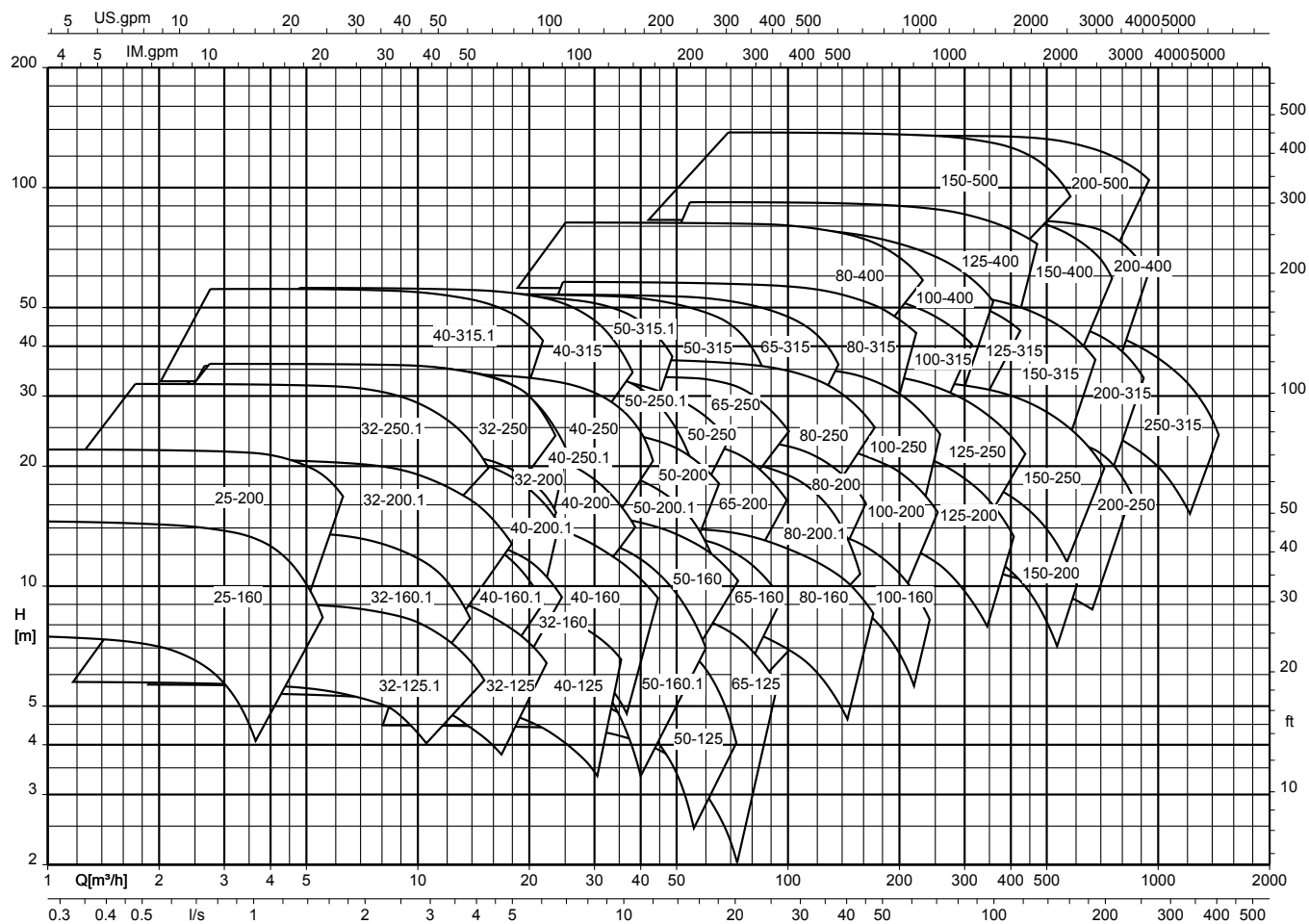


Sizes 40-160.1, 40-200.1, 40-250.1, 40-315.1, 50-160.1, 50-200.1, 50-250.1, 80-200.1 and 50-315.1 are only available in Europe.

HPK-L, n = 3500 rpm

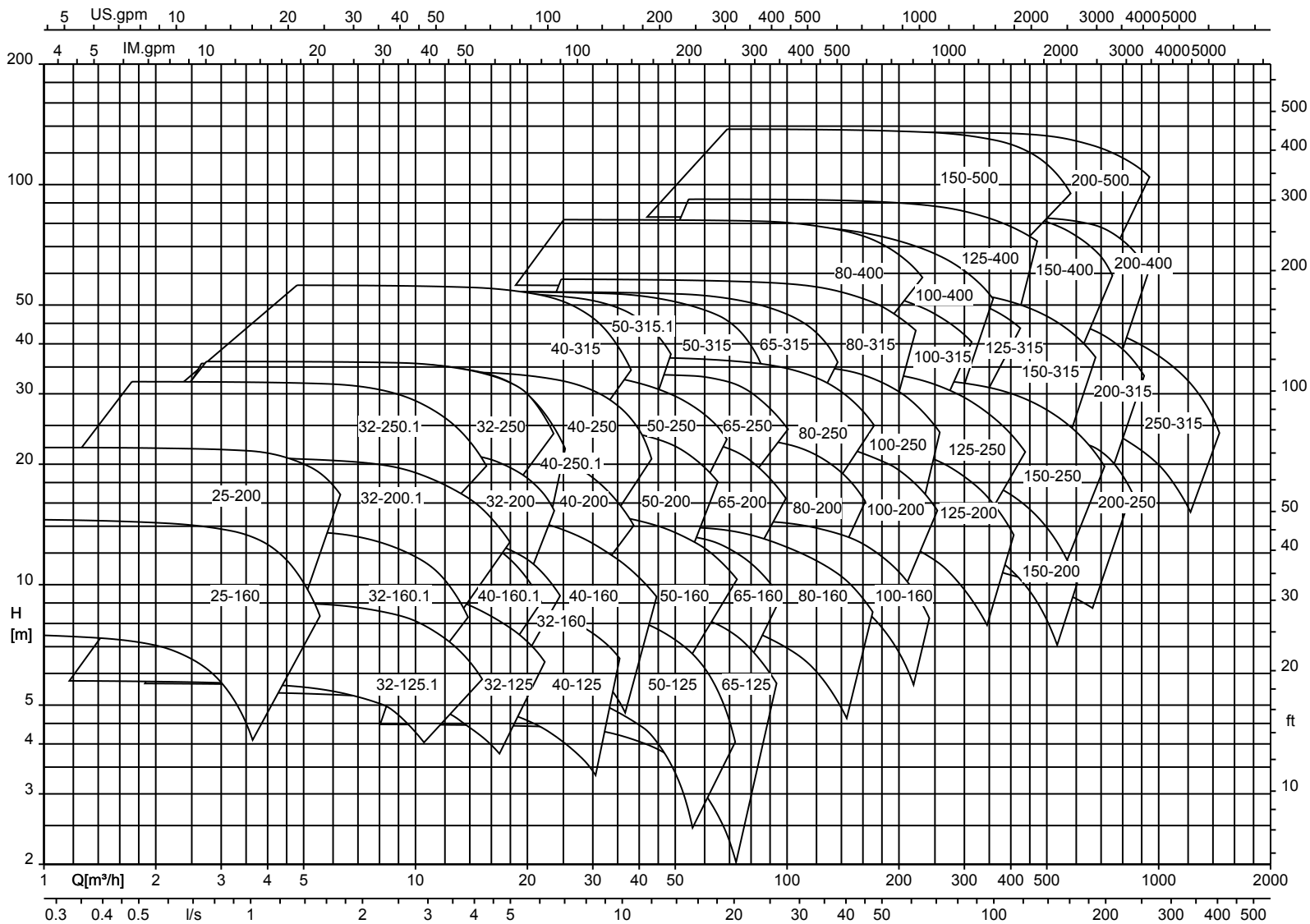


Pump sizes 40-160.1, 40-250.1 and 50-315.1 are only available in Europe.

MegaCPK, Magnochem, Magnochem-Bloc, Meganorm, Megabloc, $n = 1750$ rpm

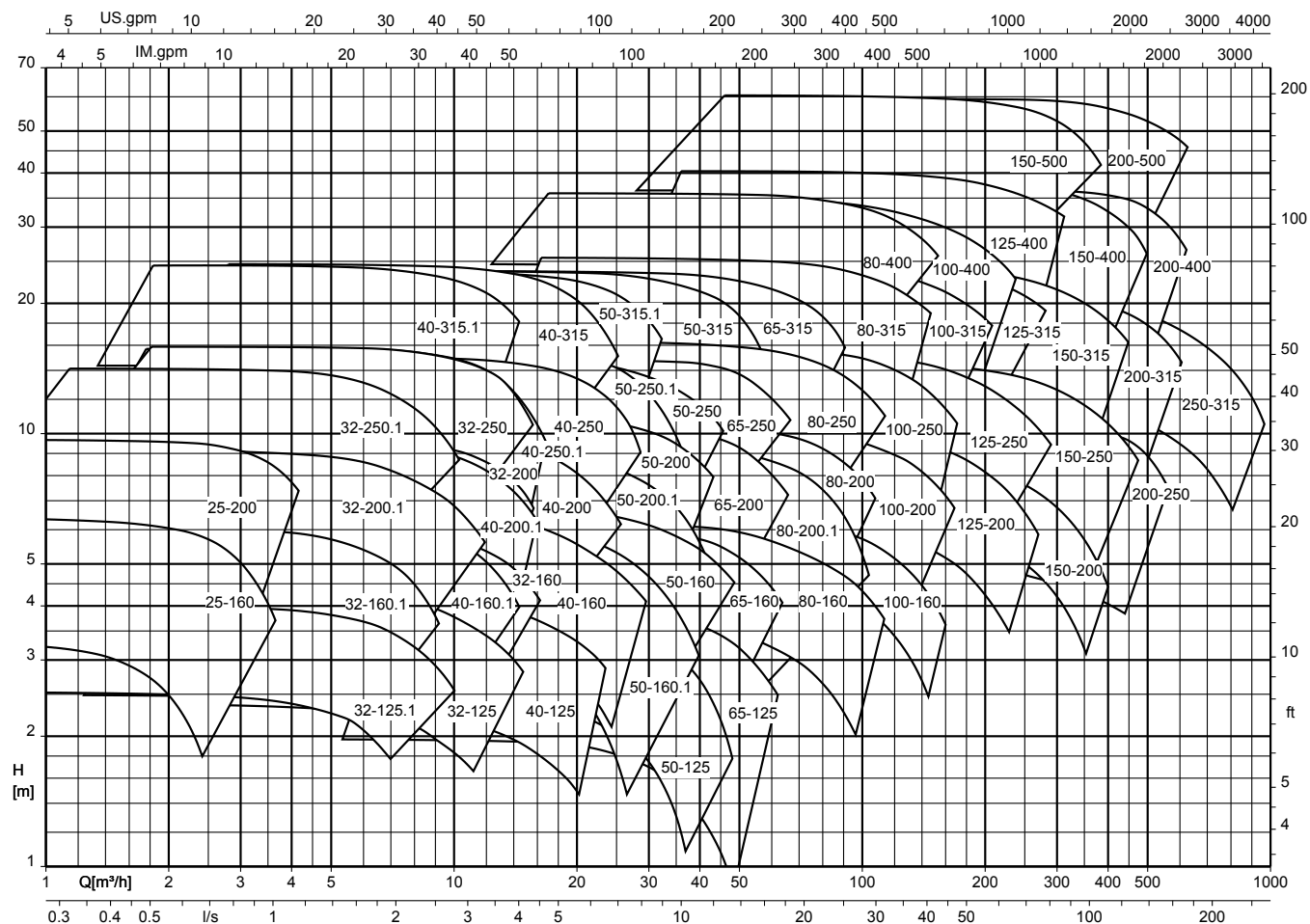
Sizes 40-160.1, 40-200.1, 40-250.1, 40-315.1, 50-160.1, 50-200.1, 50-250.1, 80-200.1 and 50-315.1 are only available in Europe.

HPK-L, n = 1750 rpm



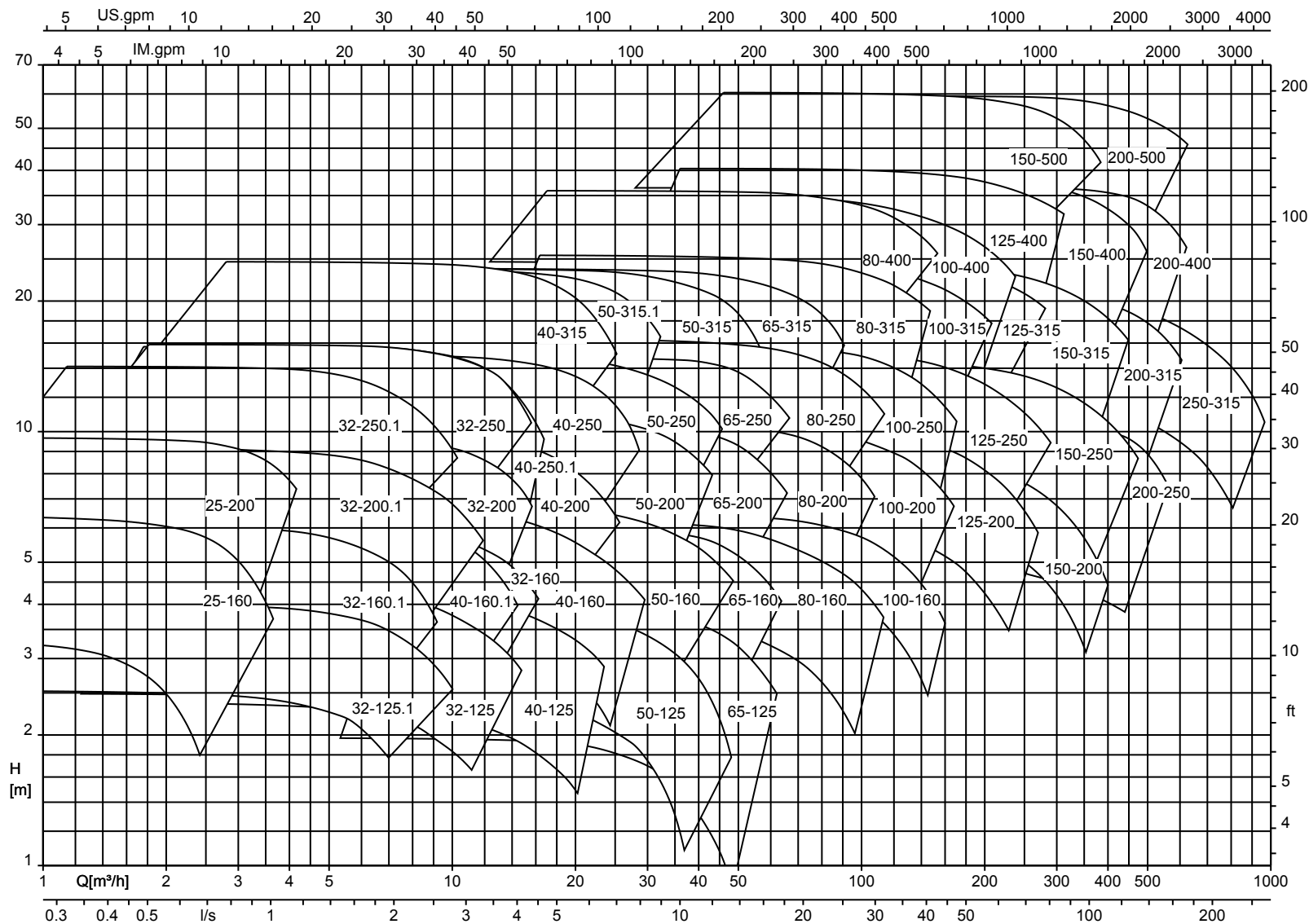
Pump sizes 40-160.1, 40-250.1 and 50-315.1 are only available in Europe.

MegaCPK, Magnochem, Magnochem-Bloc, Meganorm, n = 1160 rpm



Sizes 40-160.1, 40-200.1, 40-250.1, 40-315.1, 50-160.1, 50-200.1, 50-250.1, 80-200.1 and 50-315.1 are only available in Europe.

HPK-L, n = 1160 rpm



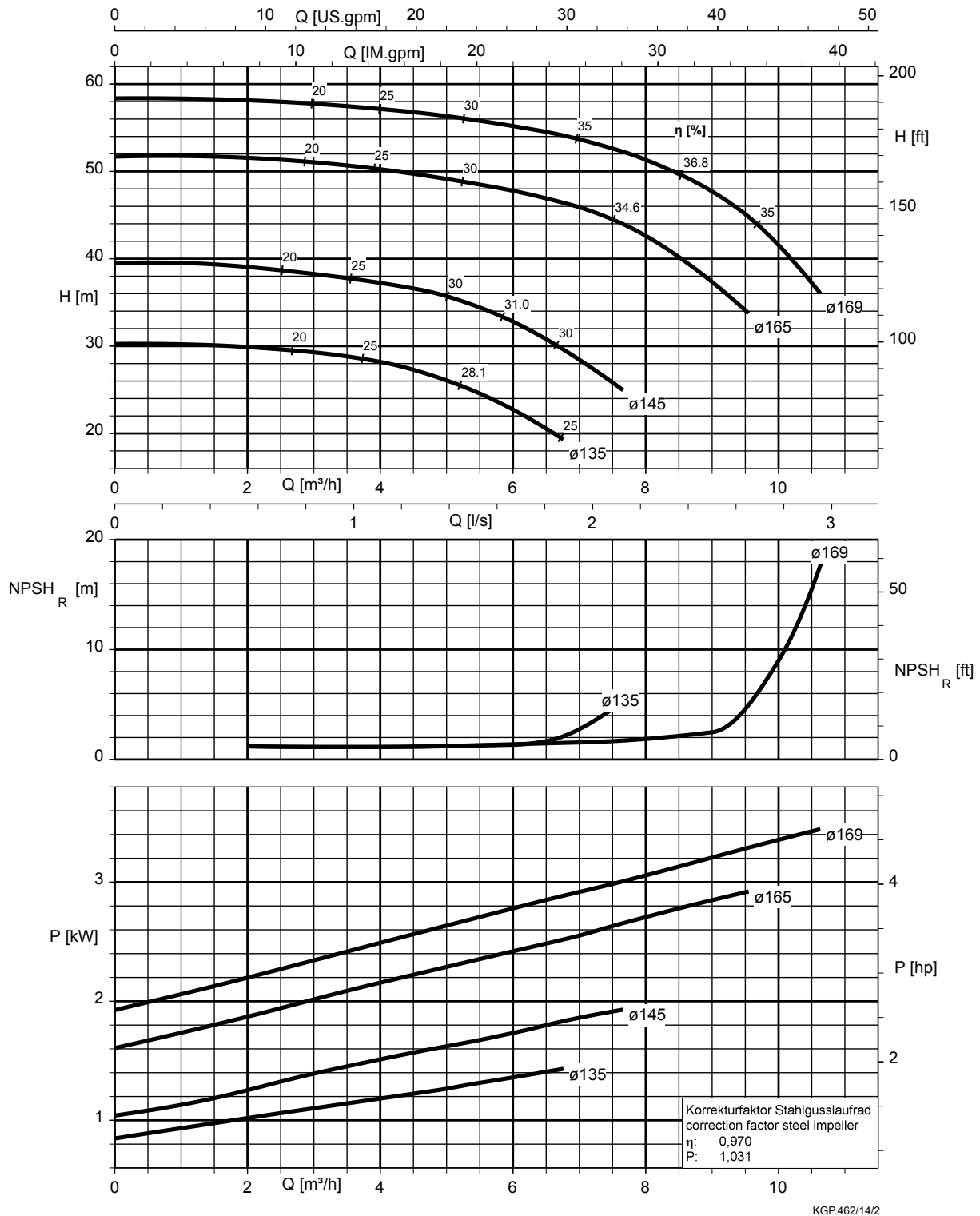
Pump sizes 40-160.1, 40-250.1 and 50-315.1 are only available in Europe.

Characteristic curves

$n = 3500 \text{ rpm}$

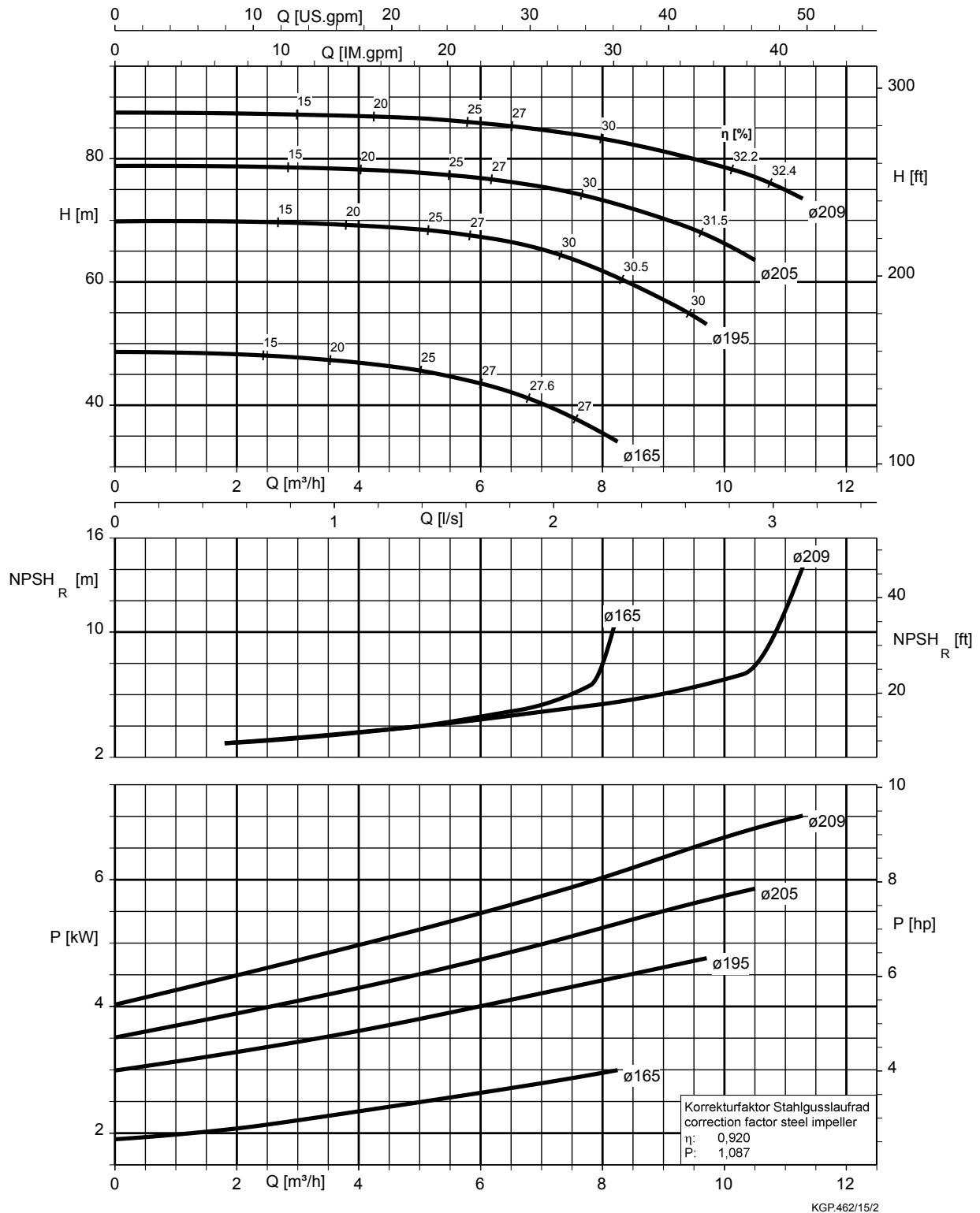
MegaCPK 040-025-160, $n = 3500 \text{ rpm}$

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



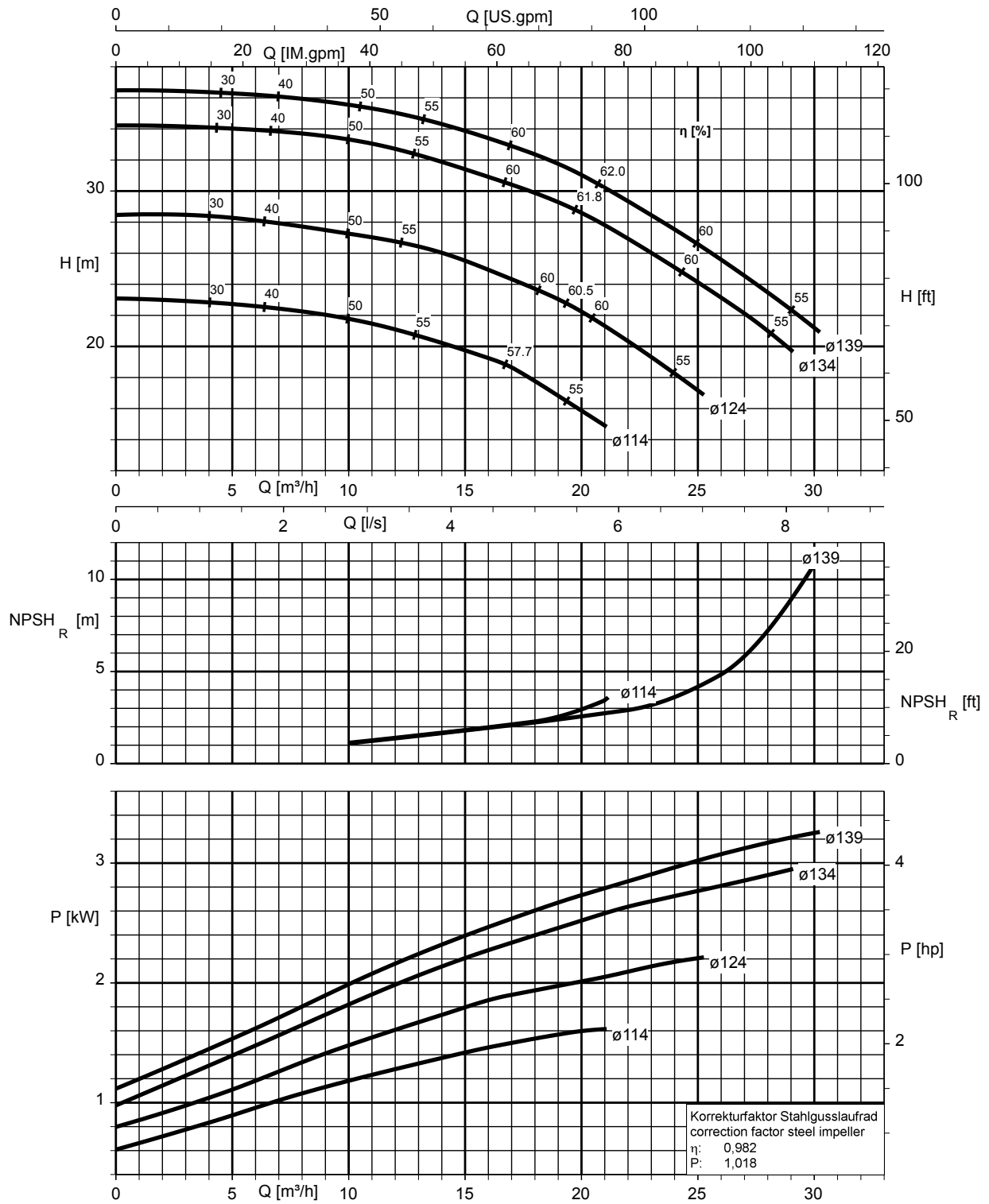
MegaCPK 040-025-200, n = 3500 rpm

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



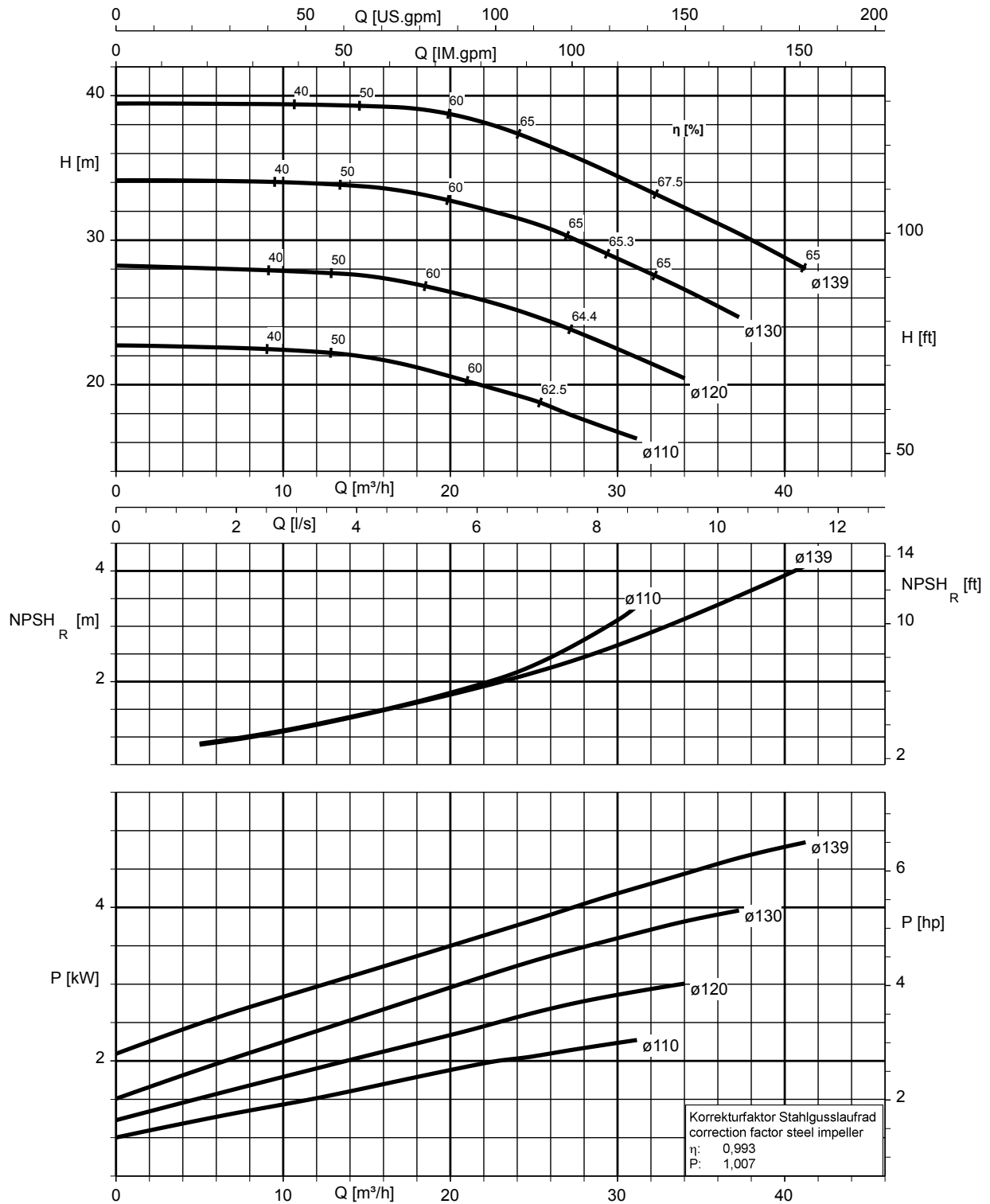
MegaCPK 050-032-125.1, n = 3500 rpm

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



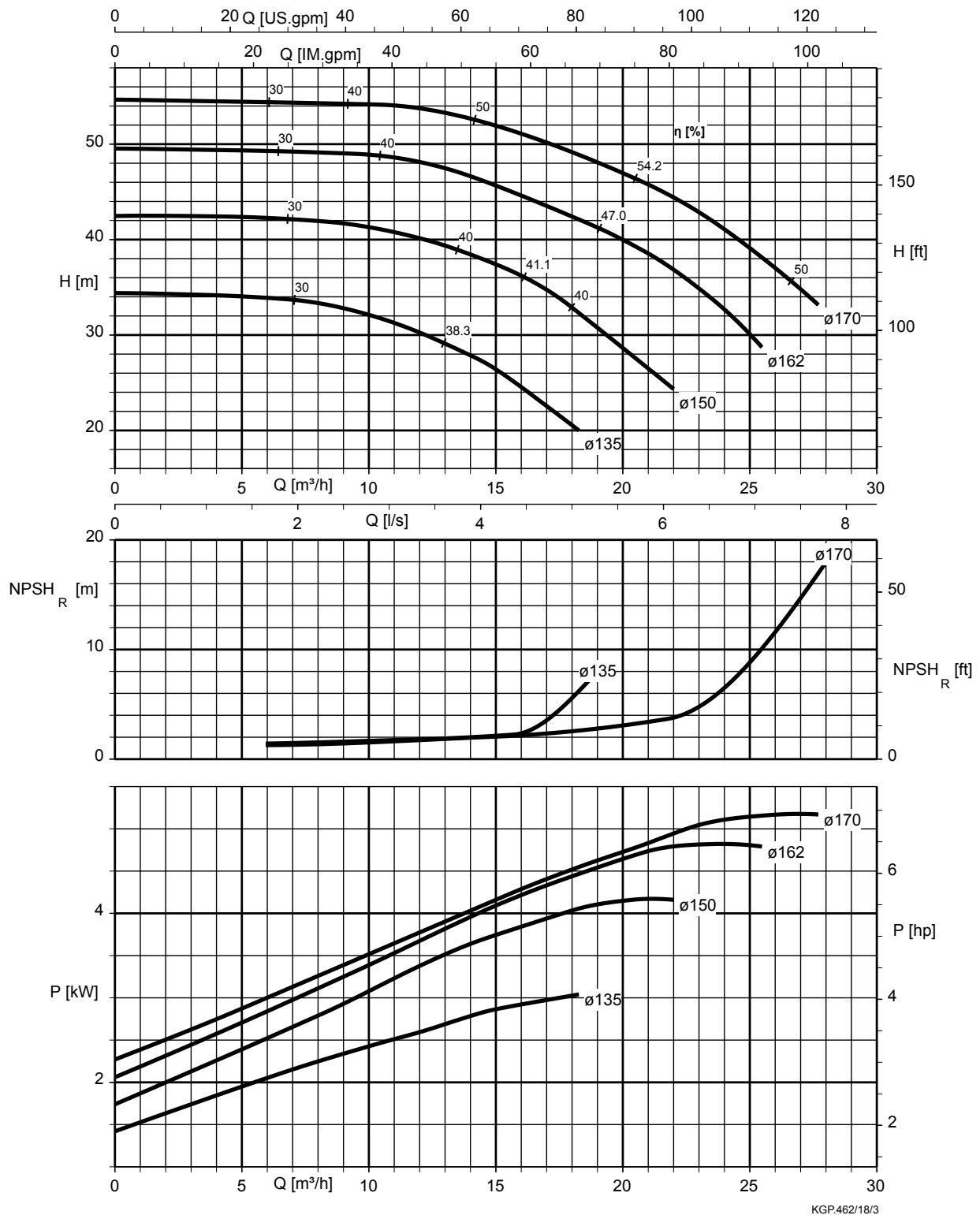
MegaCPK 050-032-125, n = 3500 rpm

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



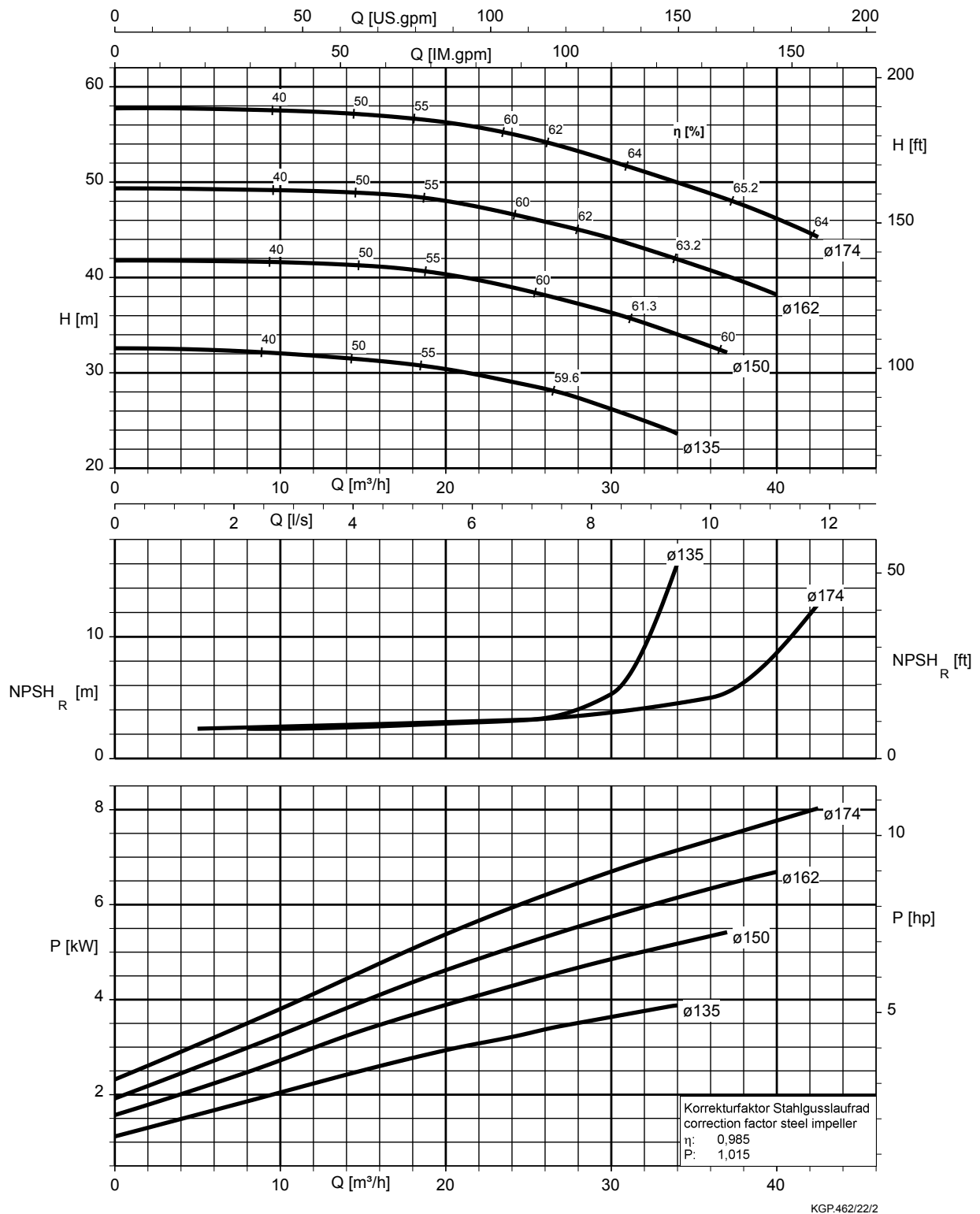
MegaCPK 050-032-160.1, n = 3500 rpm

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



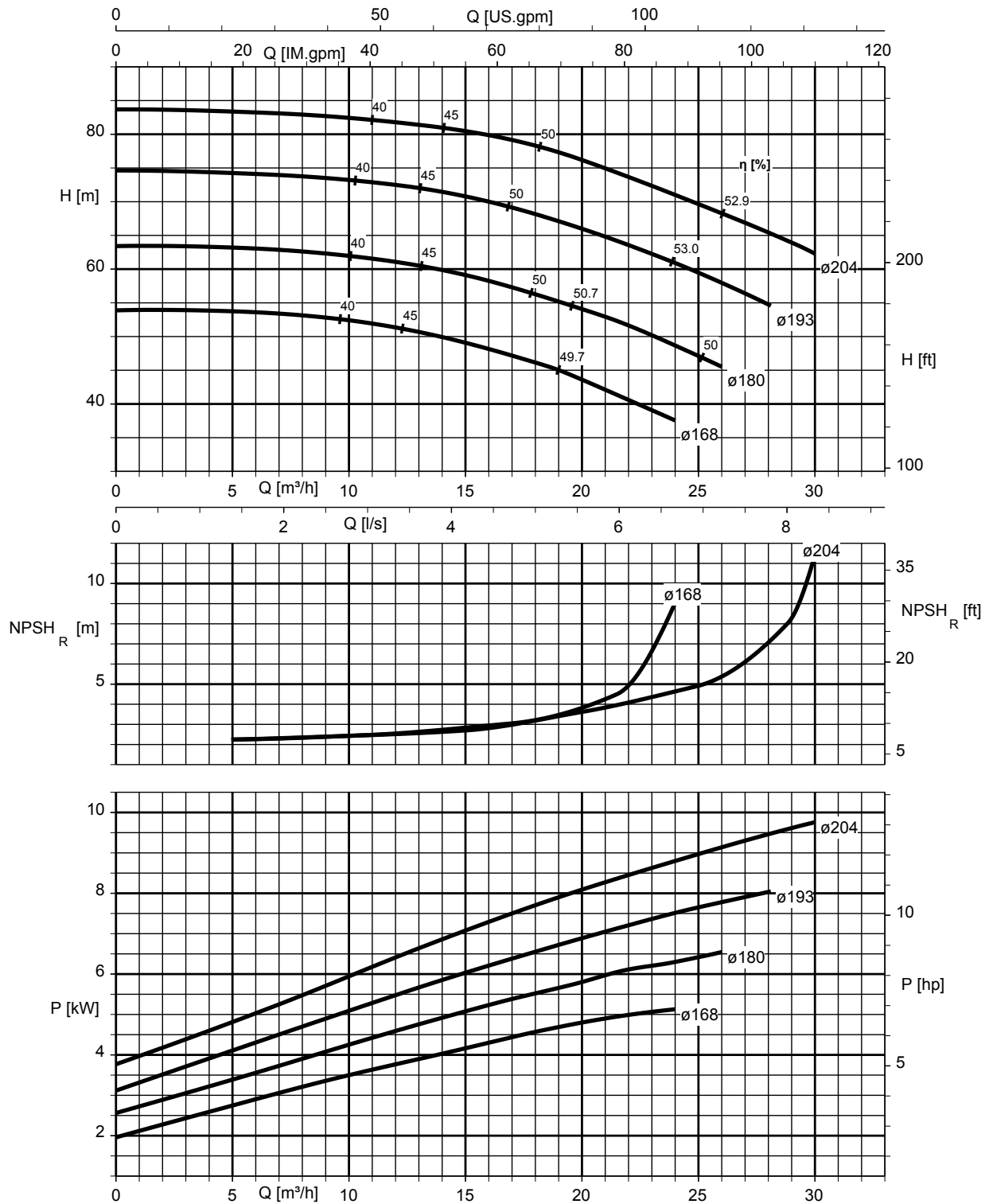
MegaCPK 050-032-160, n = 3500 rpm

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



MegaCPK 050-032-200.1, n = 3500 rpm

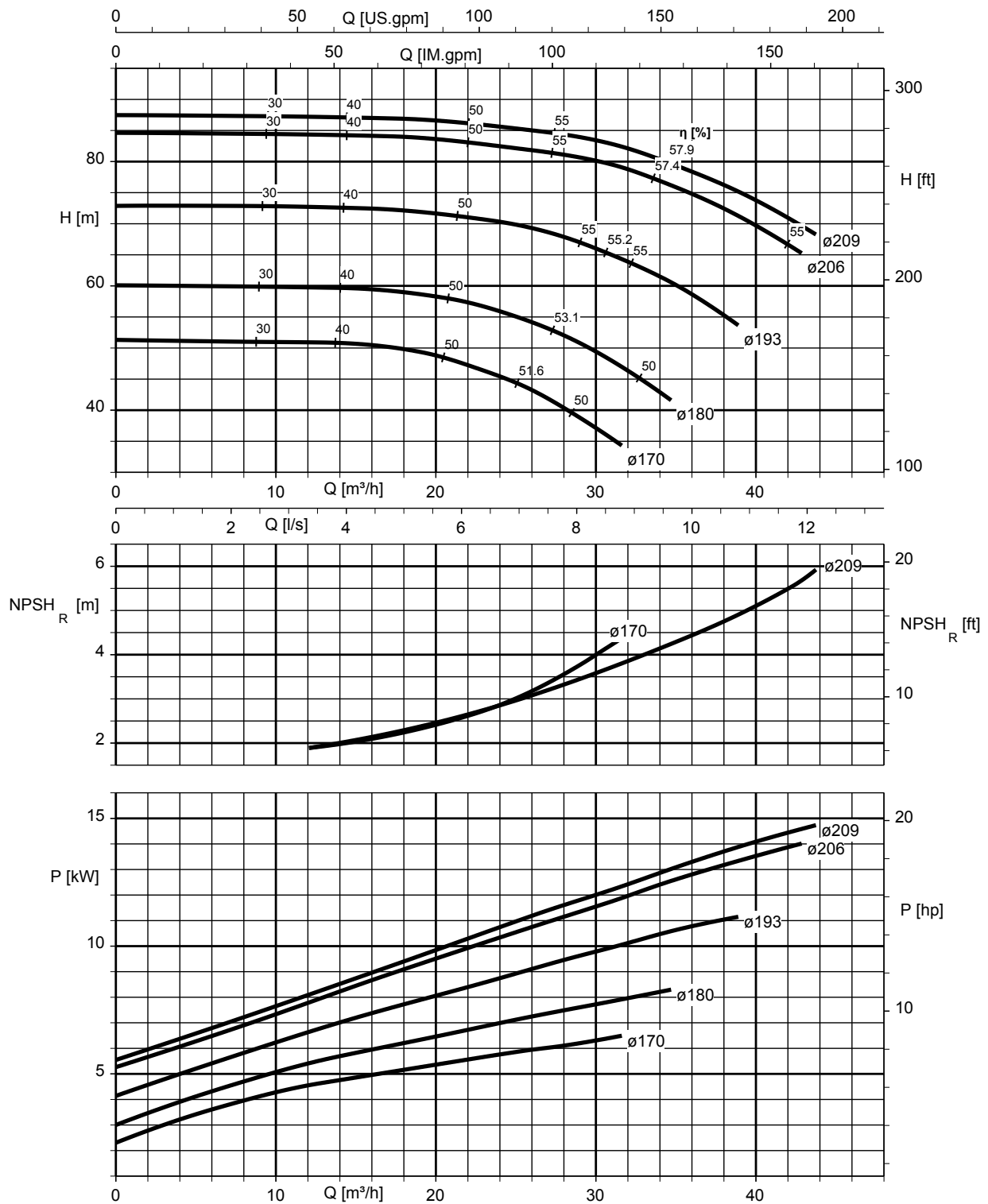
HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



KGP.462/19/2

MegaCPK 050-032-200, n = 3500 rpm

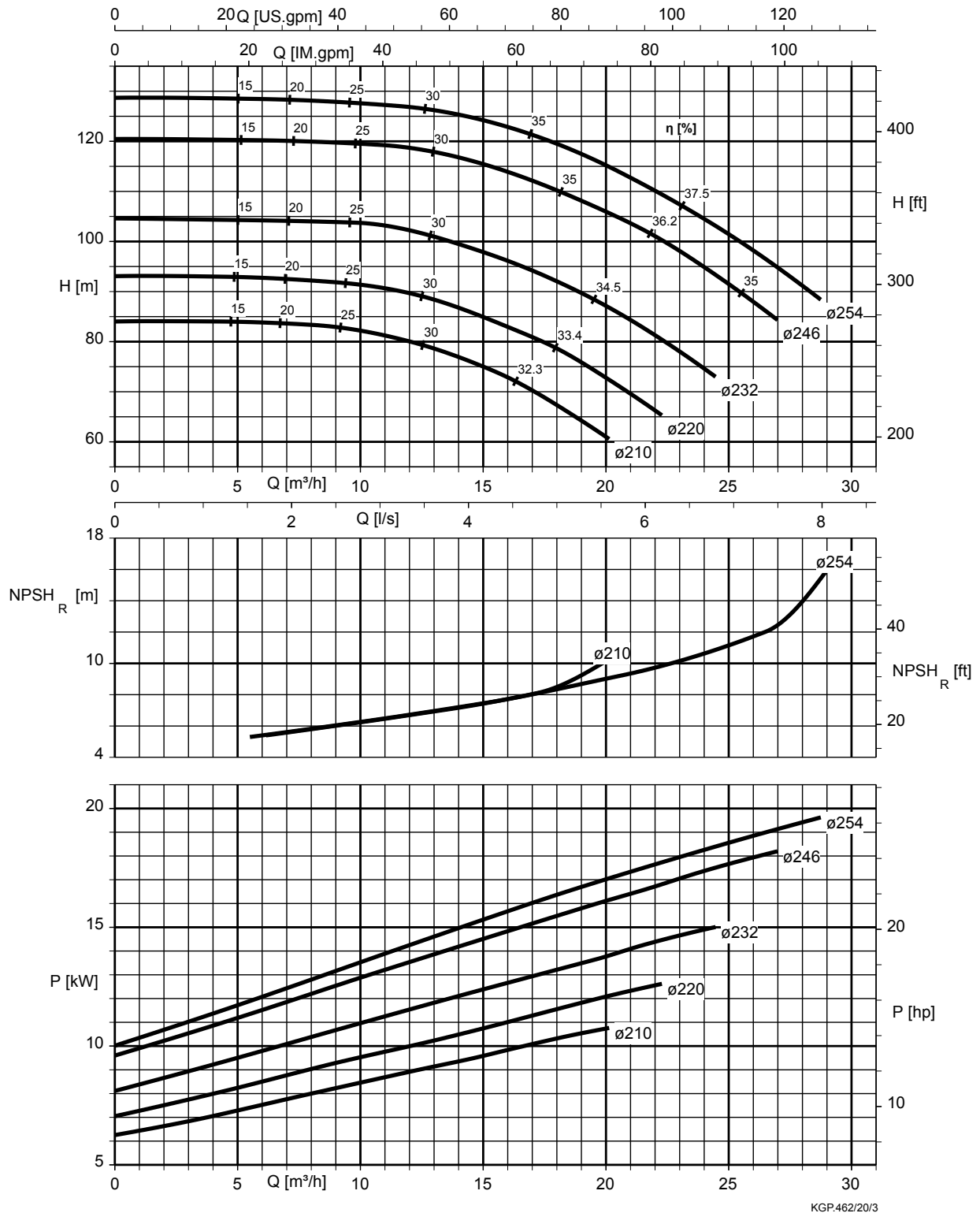
HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



KGP.462/23/0

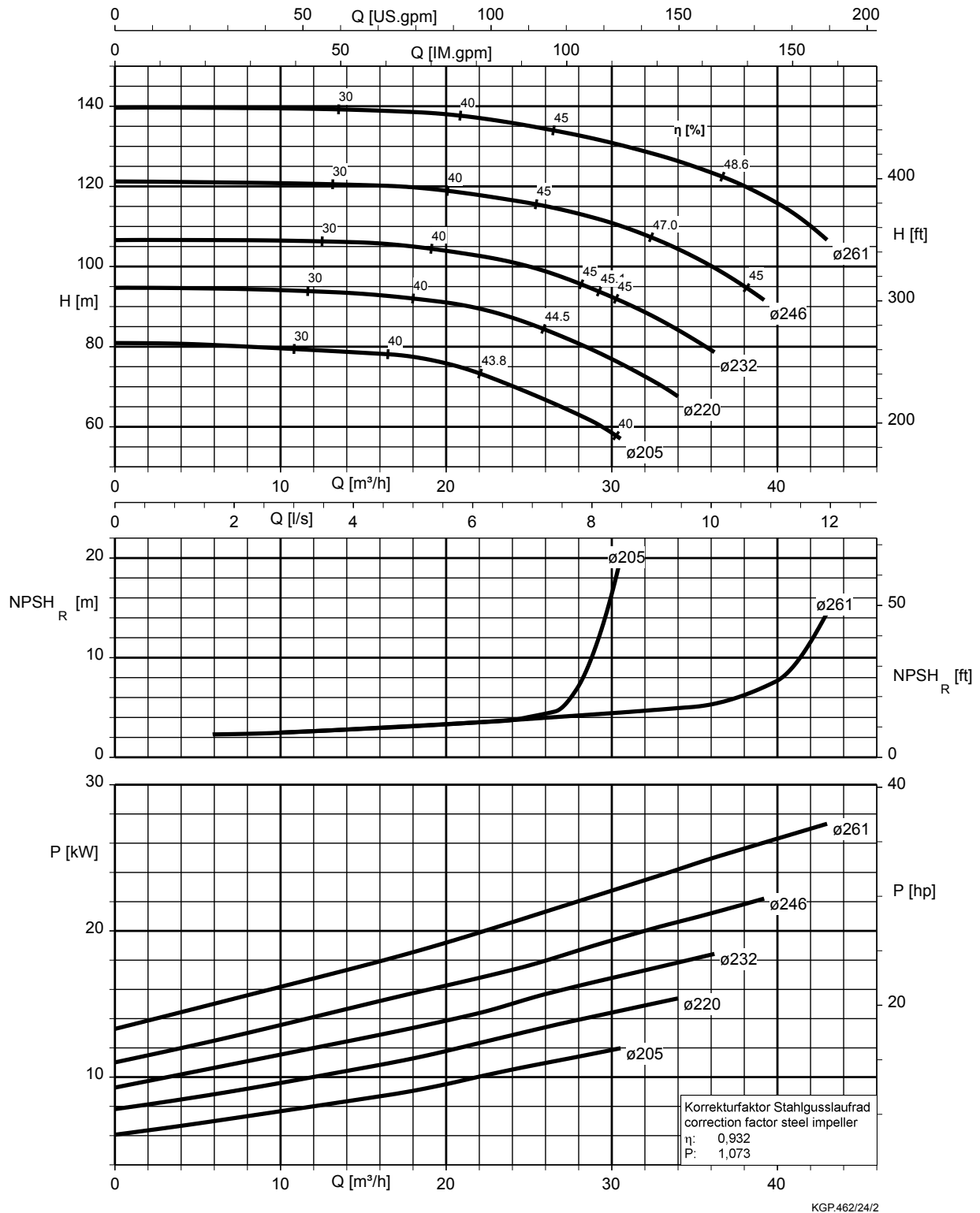
MegaCPK 050-032-250.1, n = 3500 rpm

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



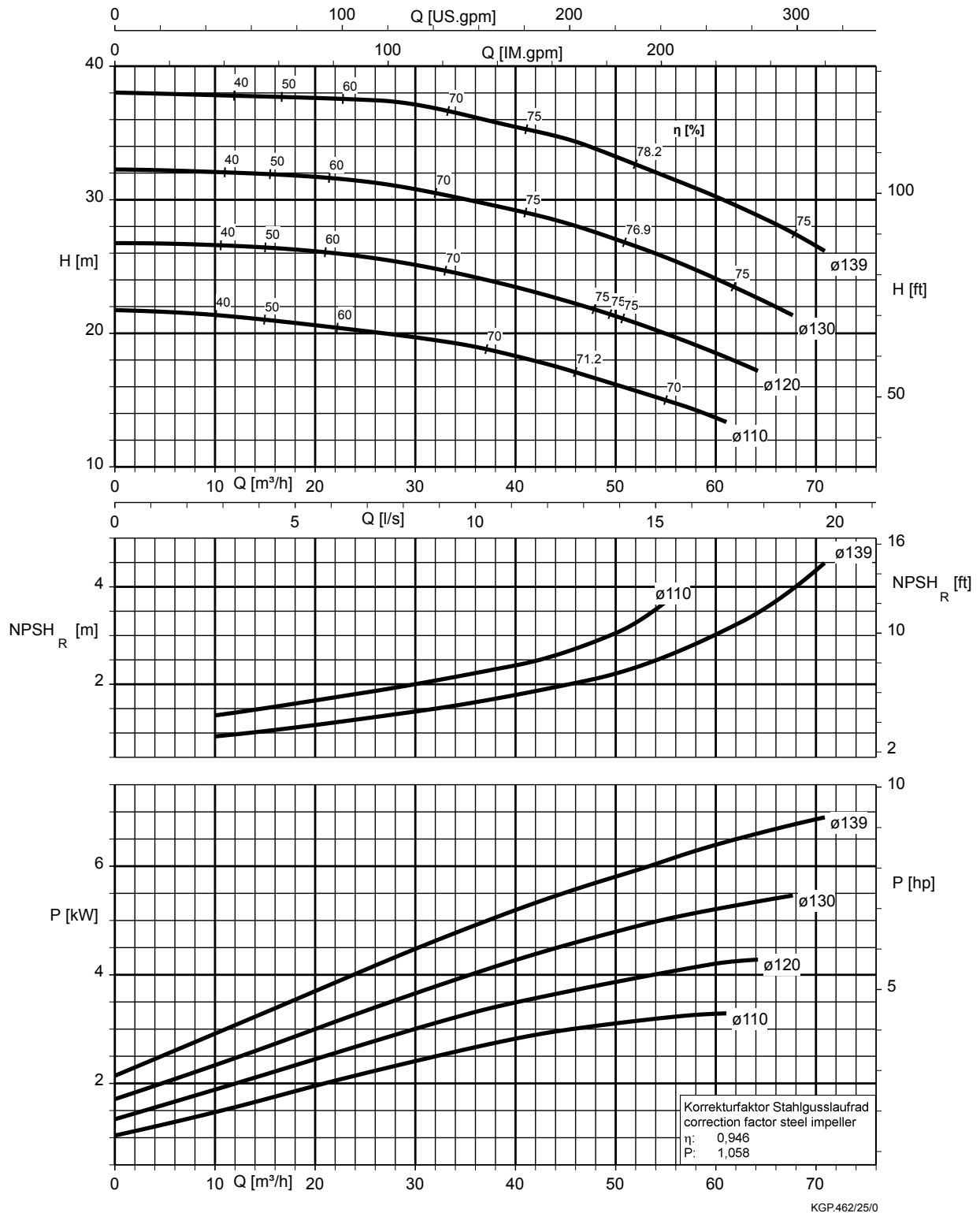
MegaCPK 050-032-250, n = 3500 rpm

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



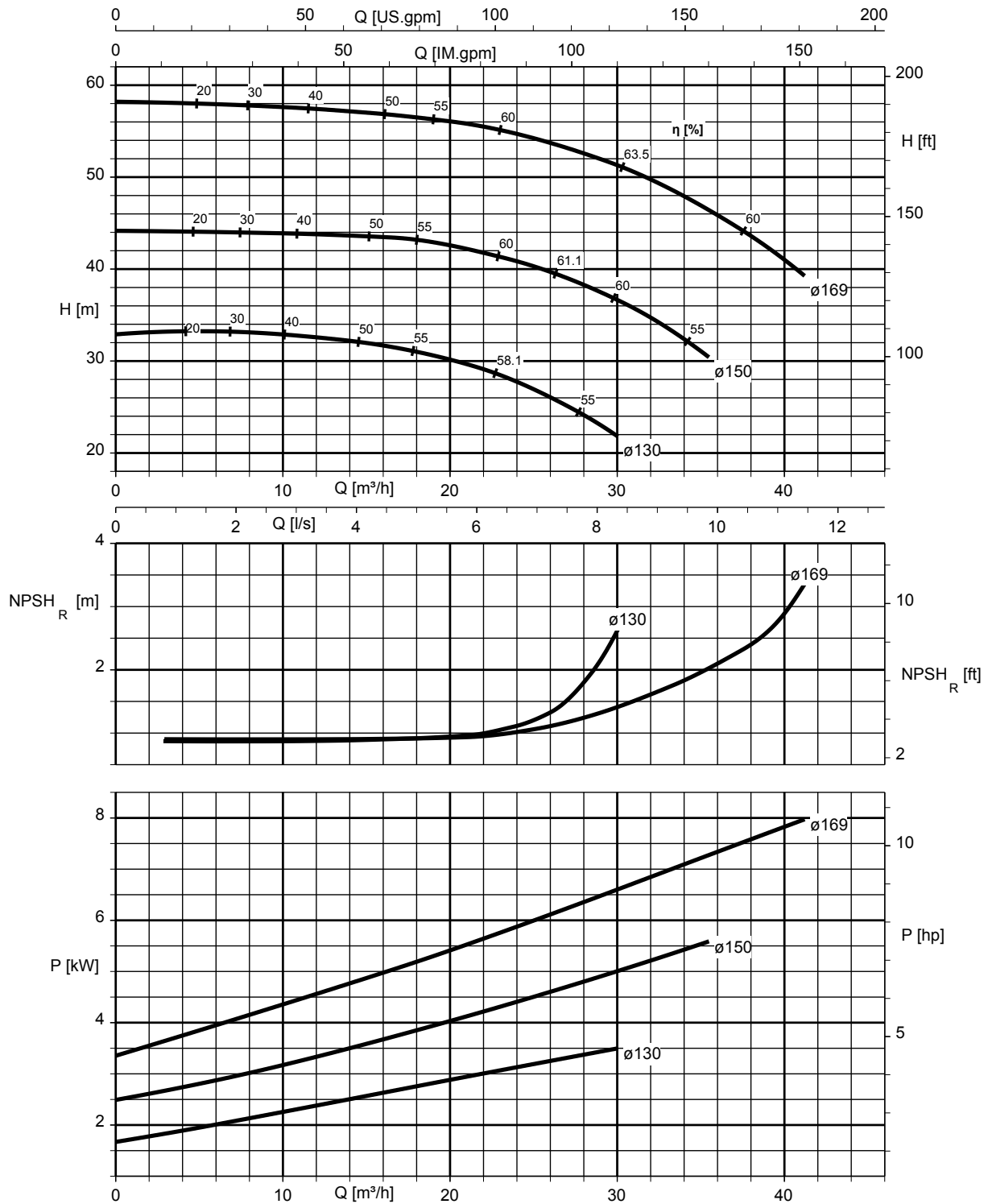
MegaCPK 065-040-125, n = 3500 rpm

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



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

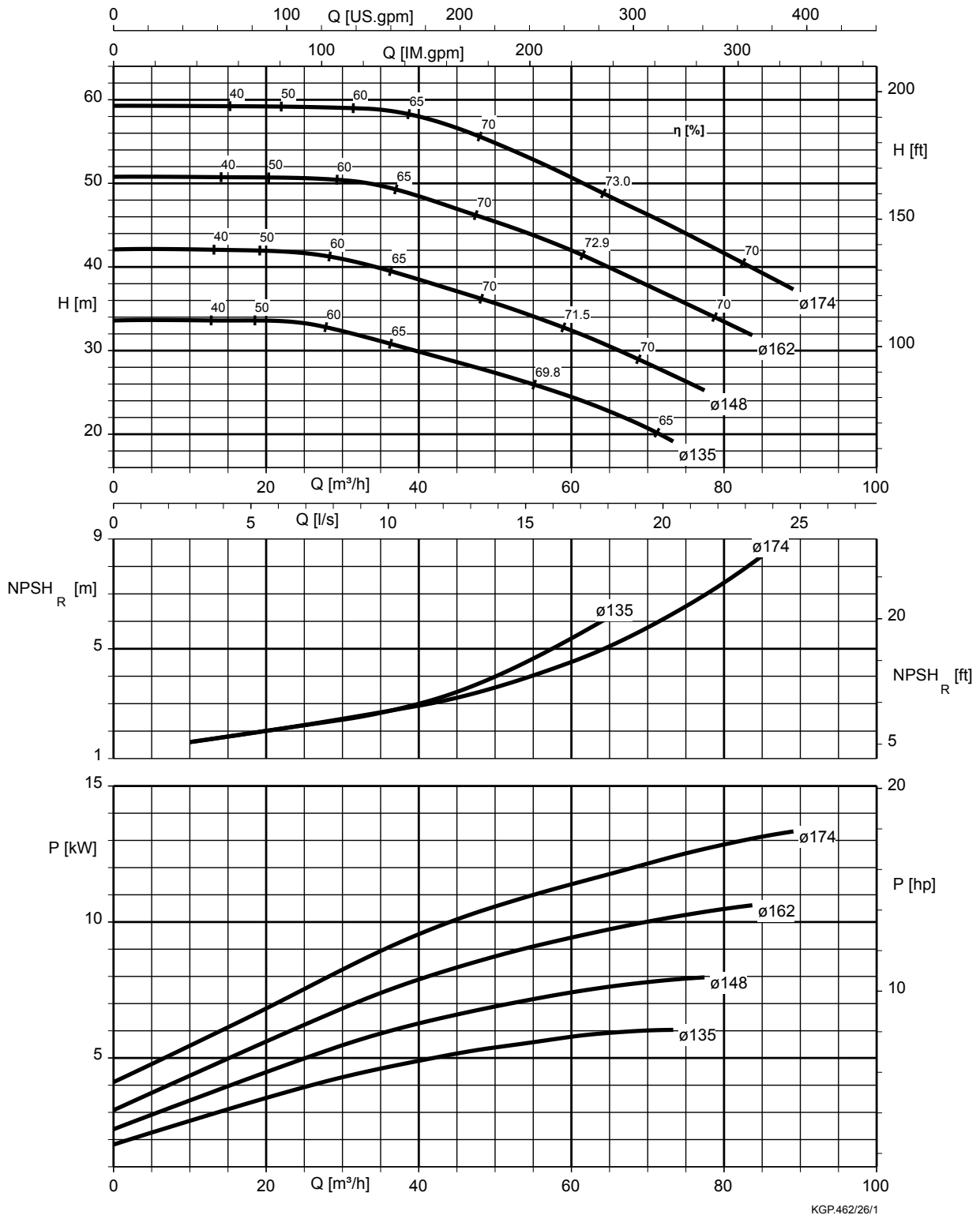
HPK-L, Magnochem, Magnochem-Bloc



KGP462/11/0

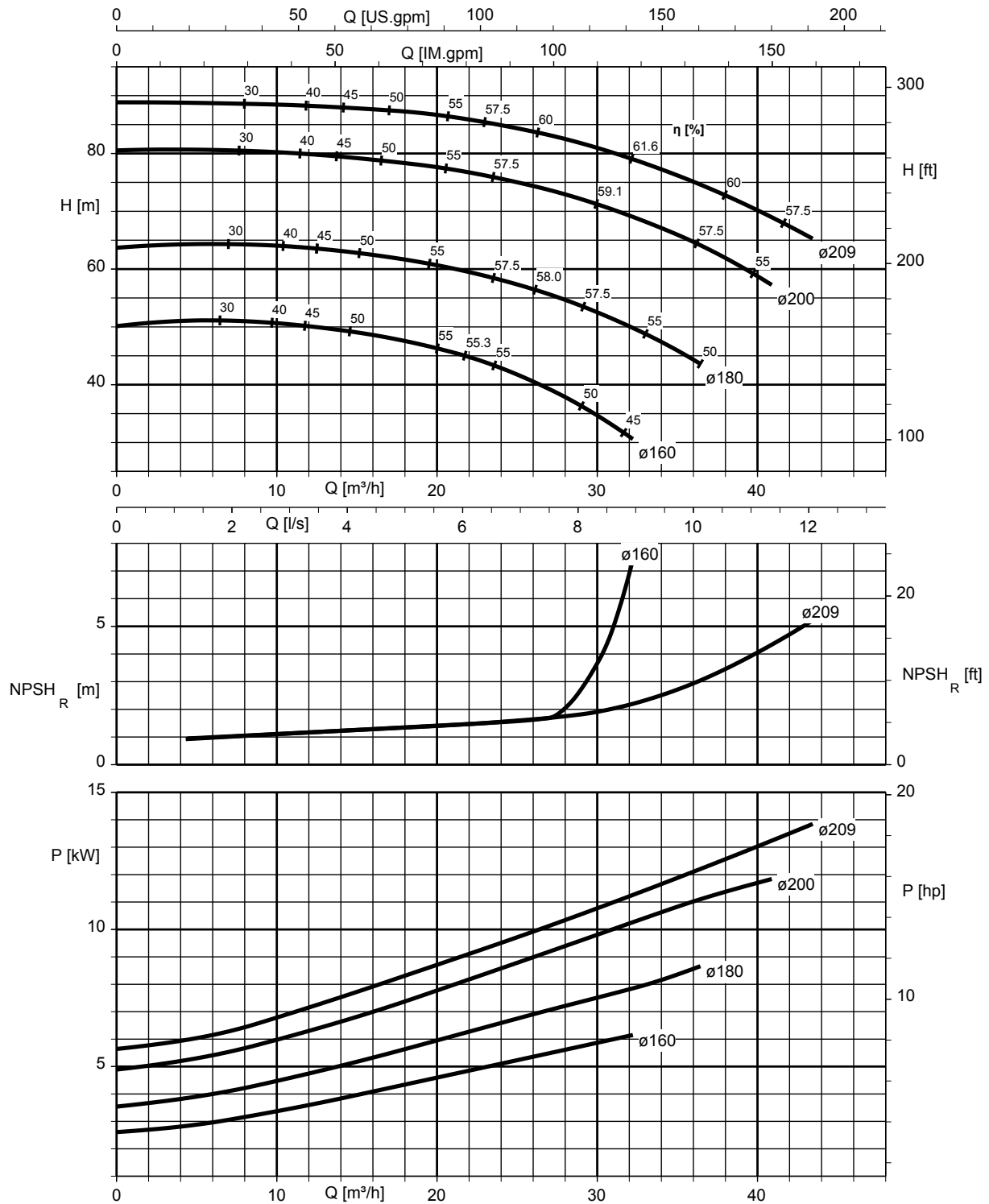
MegaCPK 065-040-160, n = 3500 rpm

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



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

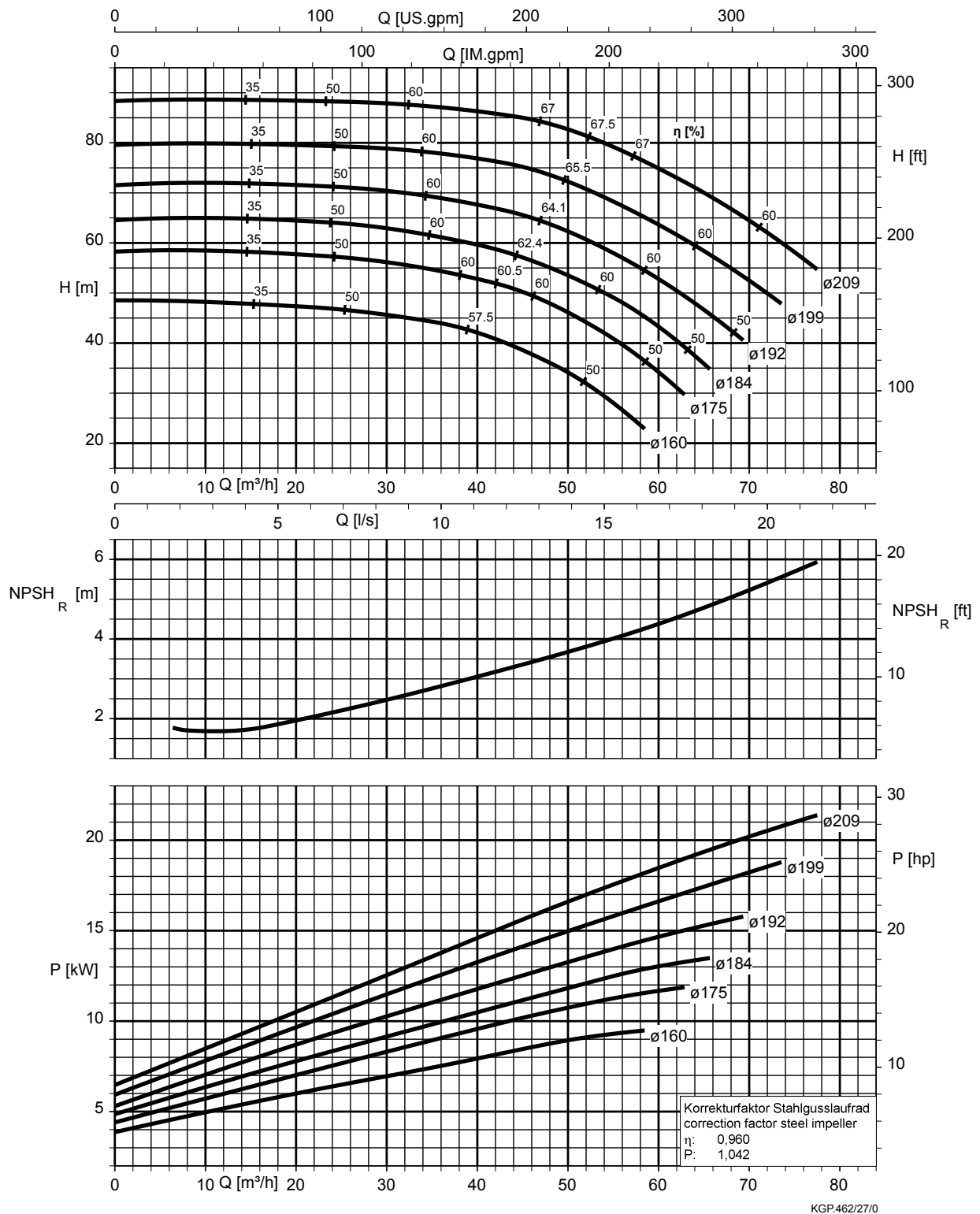
Magnochem, Magnochem-Bloc



KGP.462/05/0

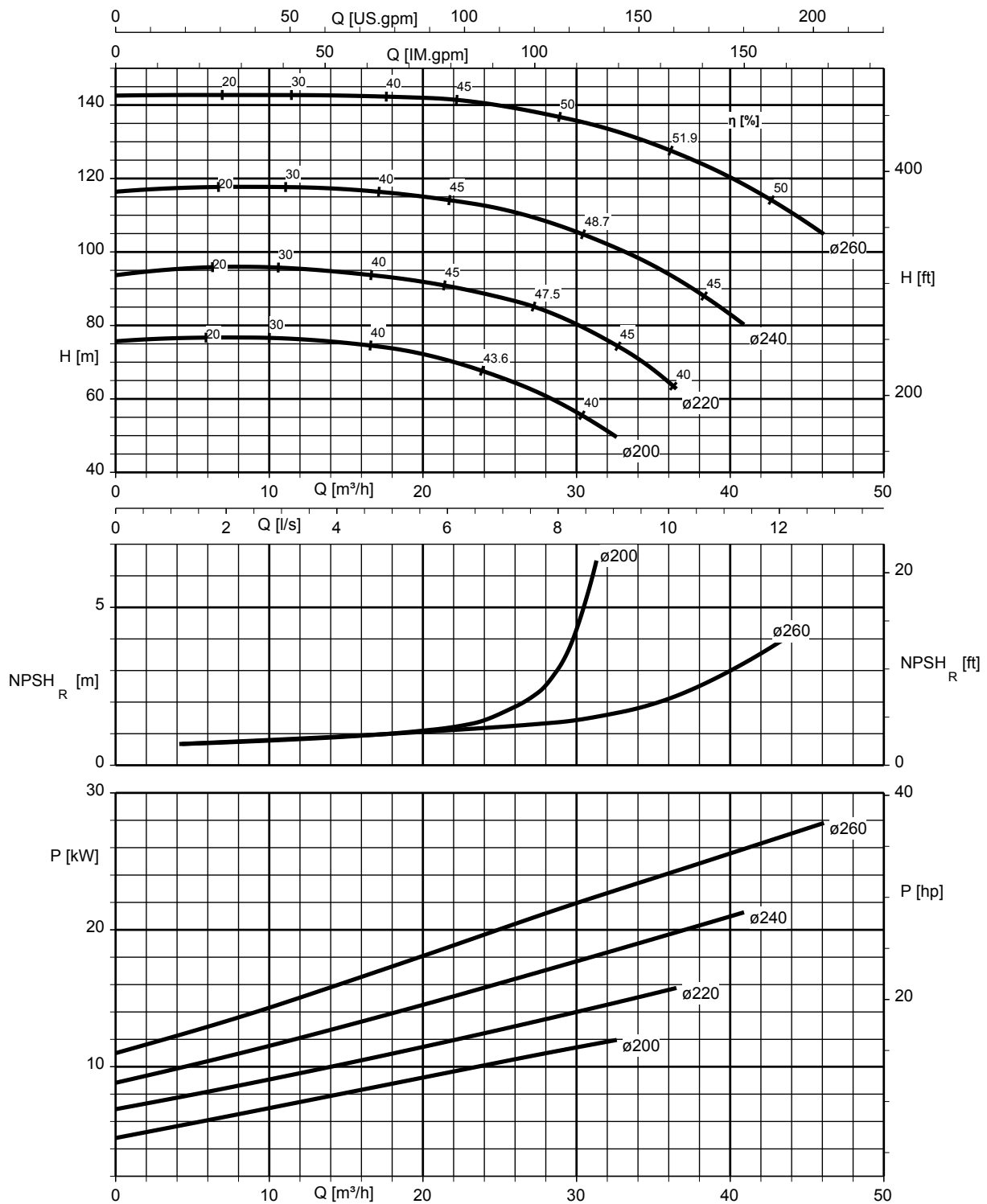
MegaCPK 065-040-200, n = 3500 rpm

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



MegaCPK 065-040-250.1, n = 3500 rpm

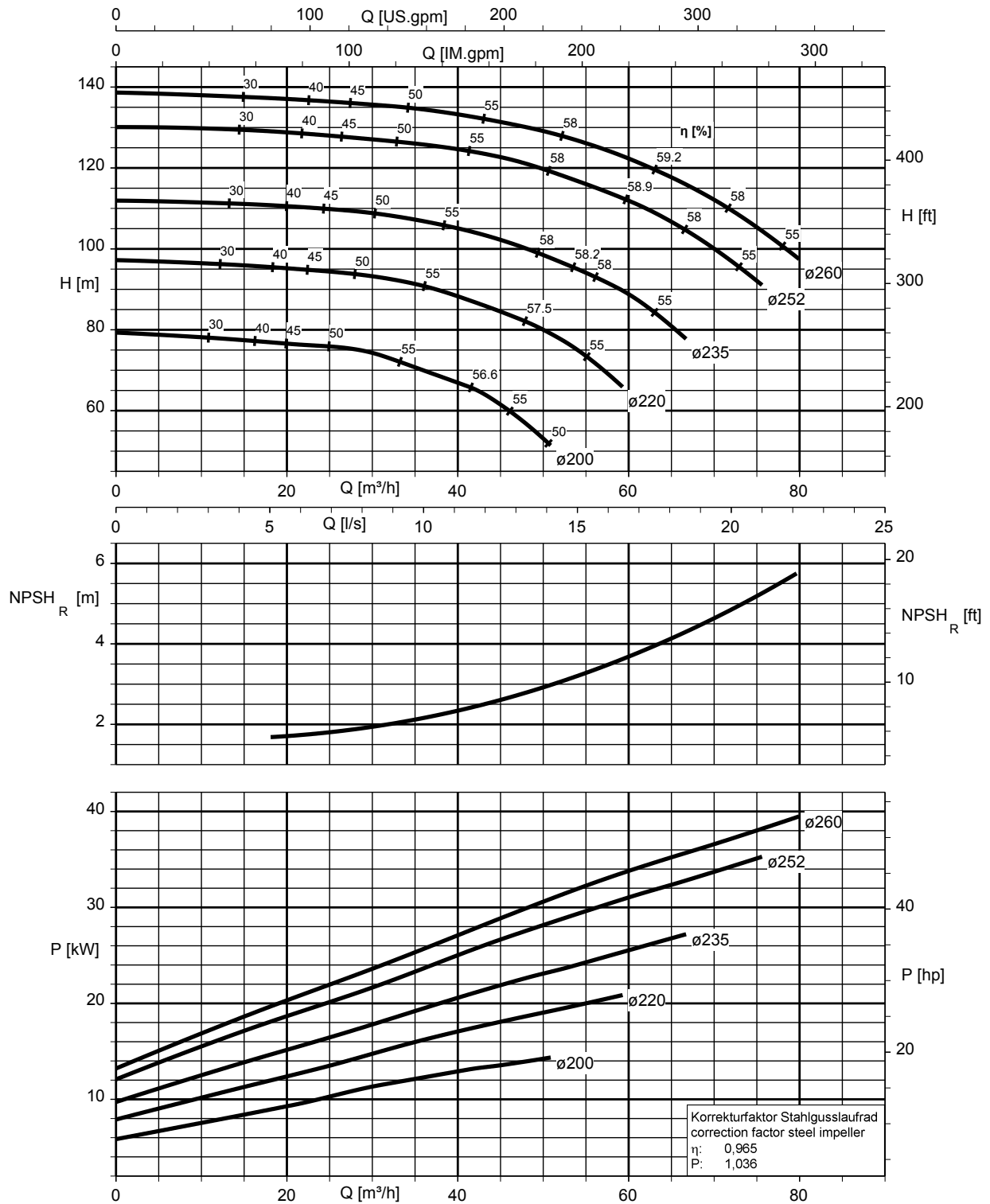
HPK-L, Magnochem, Magnochem-Bloc



KGP.462/12/0

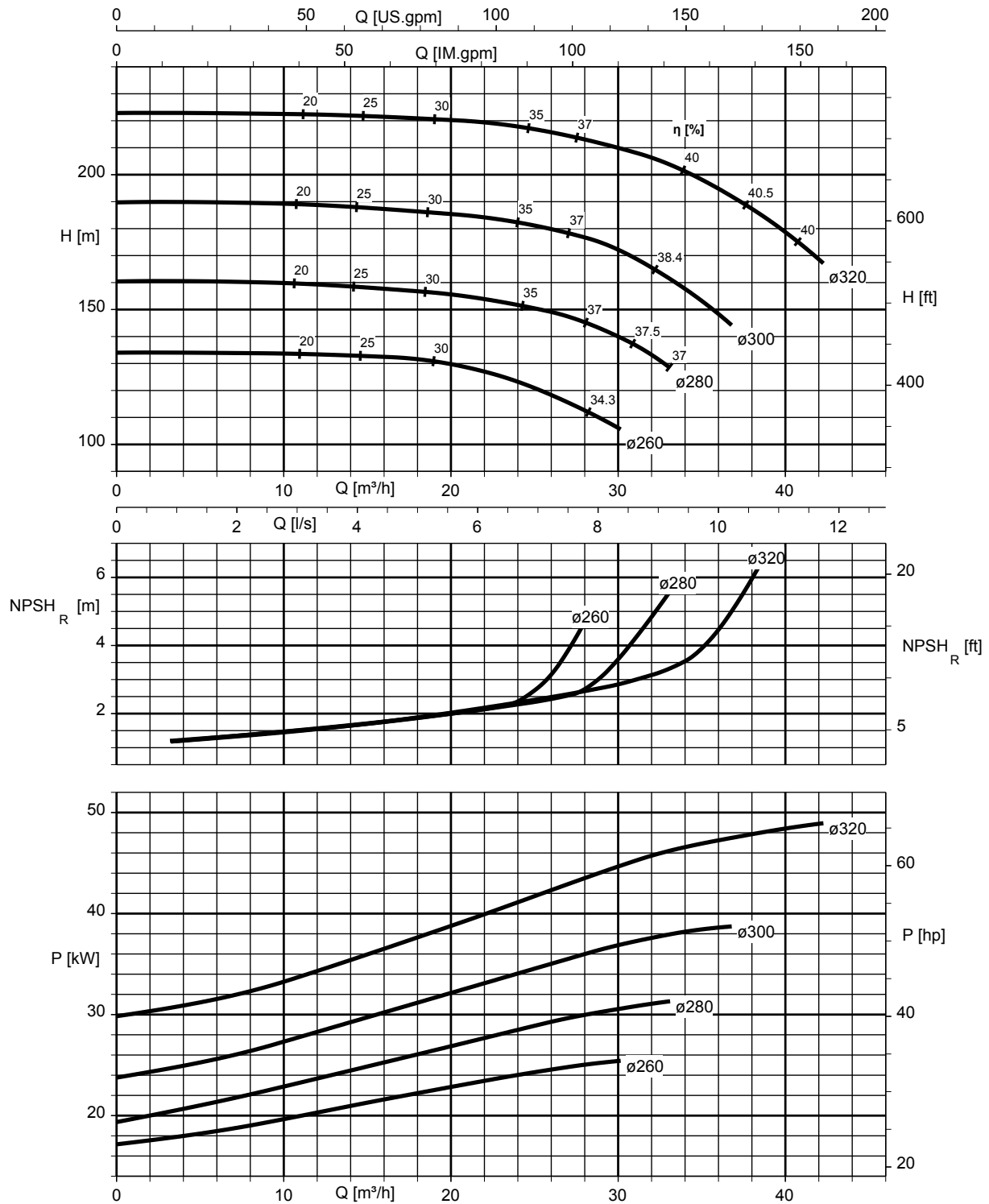
MegaCPK 065-040-250, n = 3500 rpm

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



MegaCPK 065-040-315.1, n = 3500 rpm

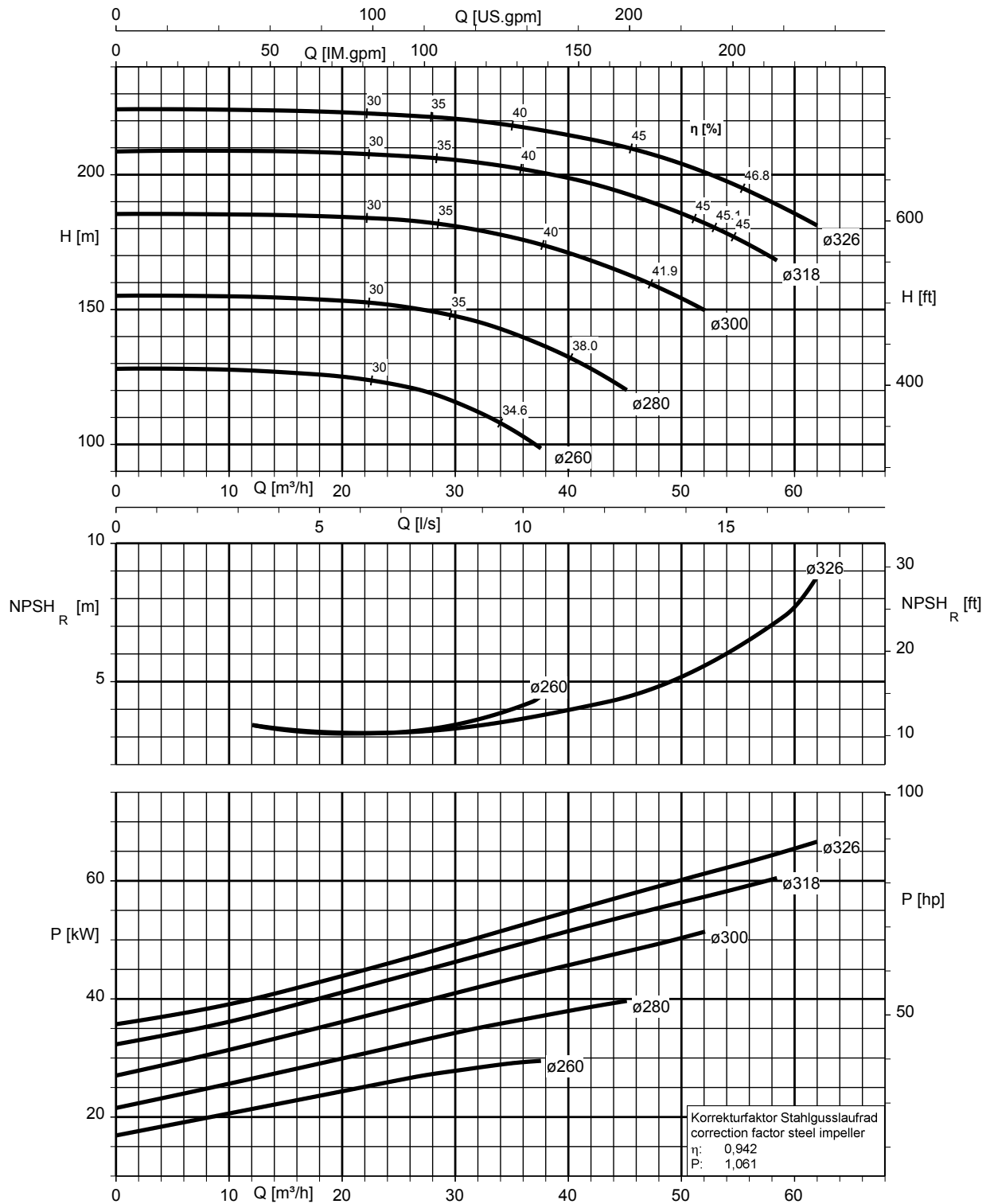
Magnochem, Magnochem-Bloc



KGP.462/06/0

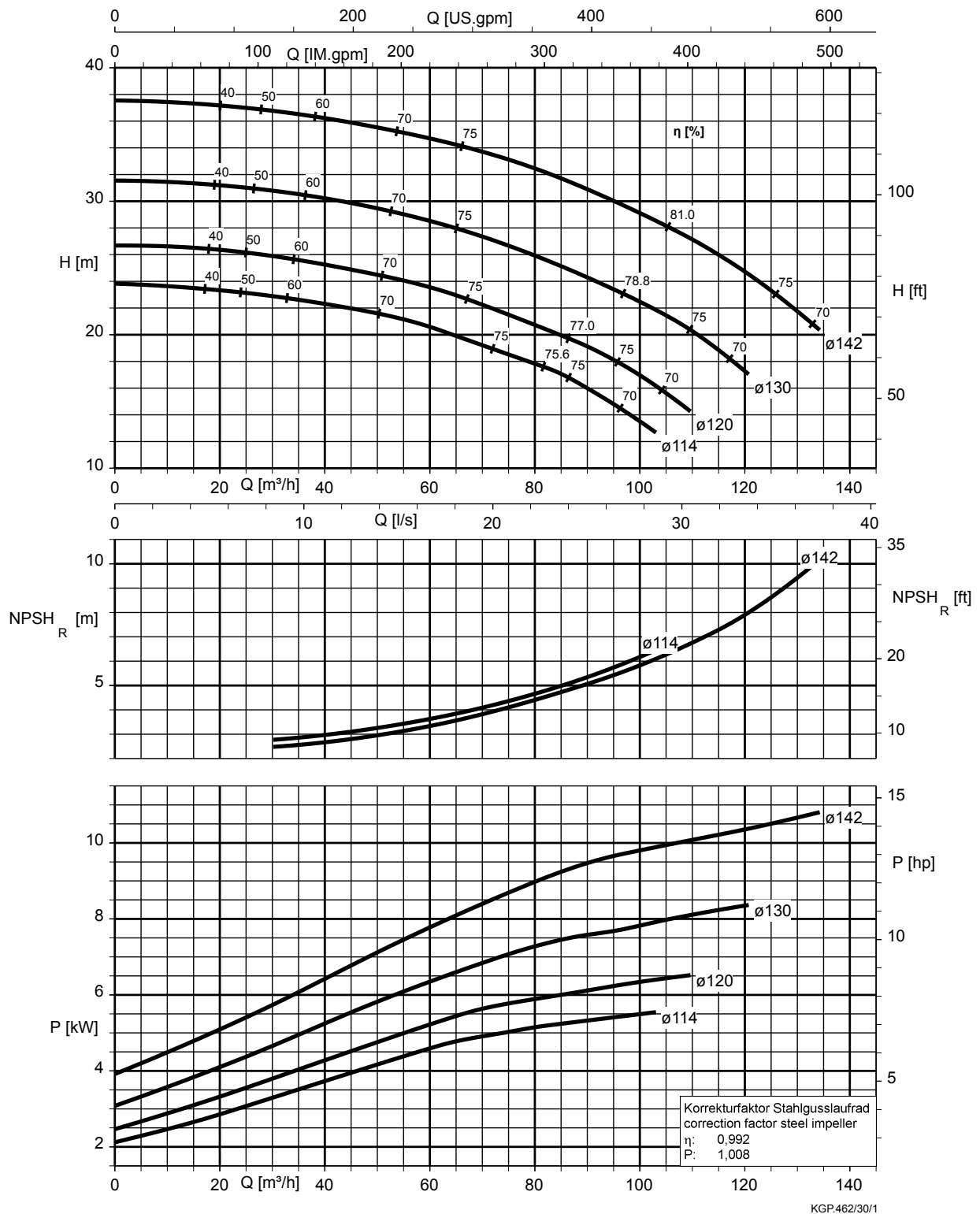
MegaCPK 065-040-315, n = 3500 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



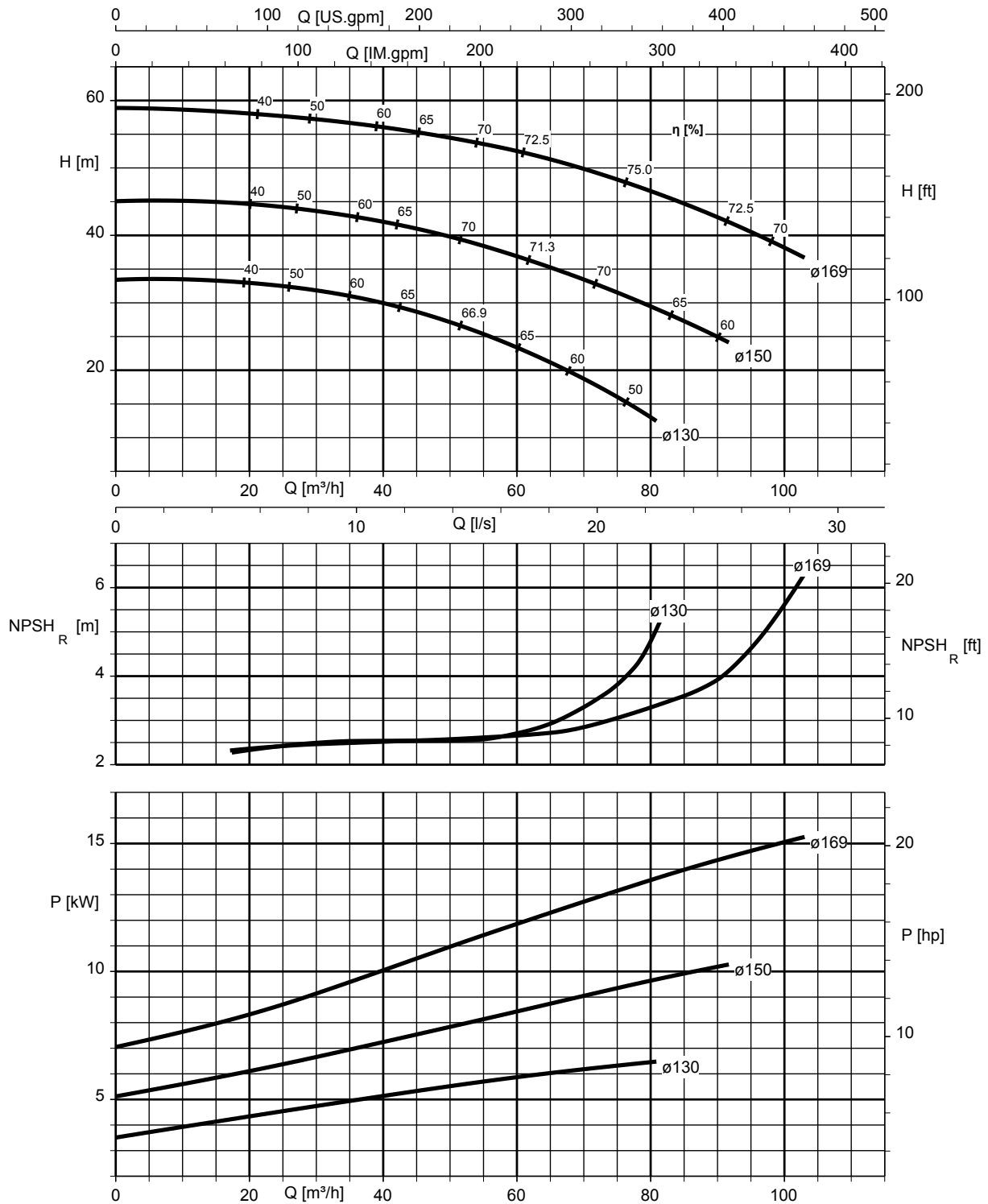
MegaCPK 080-050-125, n = 3500 rpm

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



MegaCPK 080-050-160.1, n = 3500 rpm

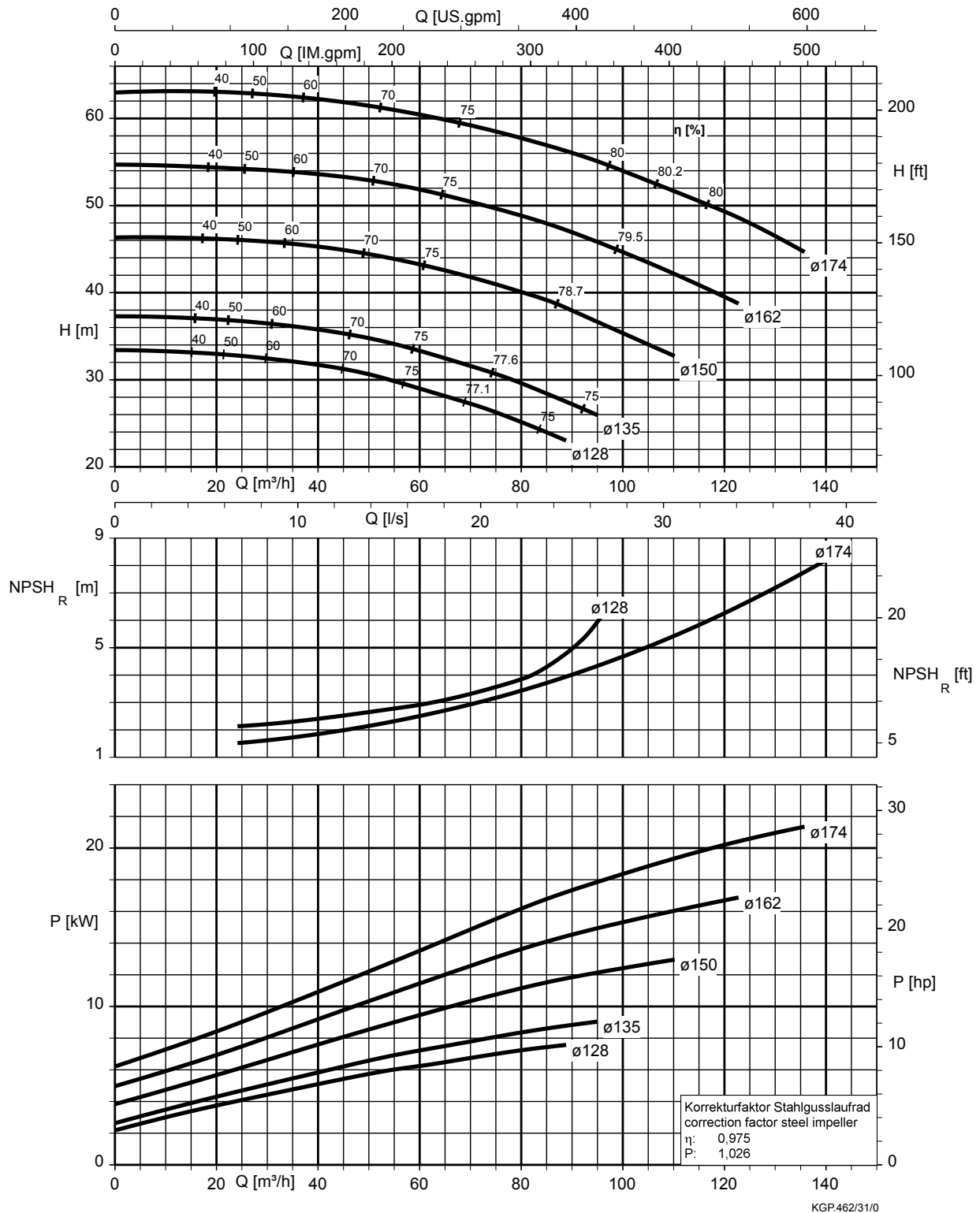
Magnochem, Magnochem-Bloc



KGP.462/08/0

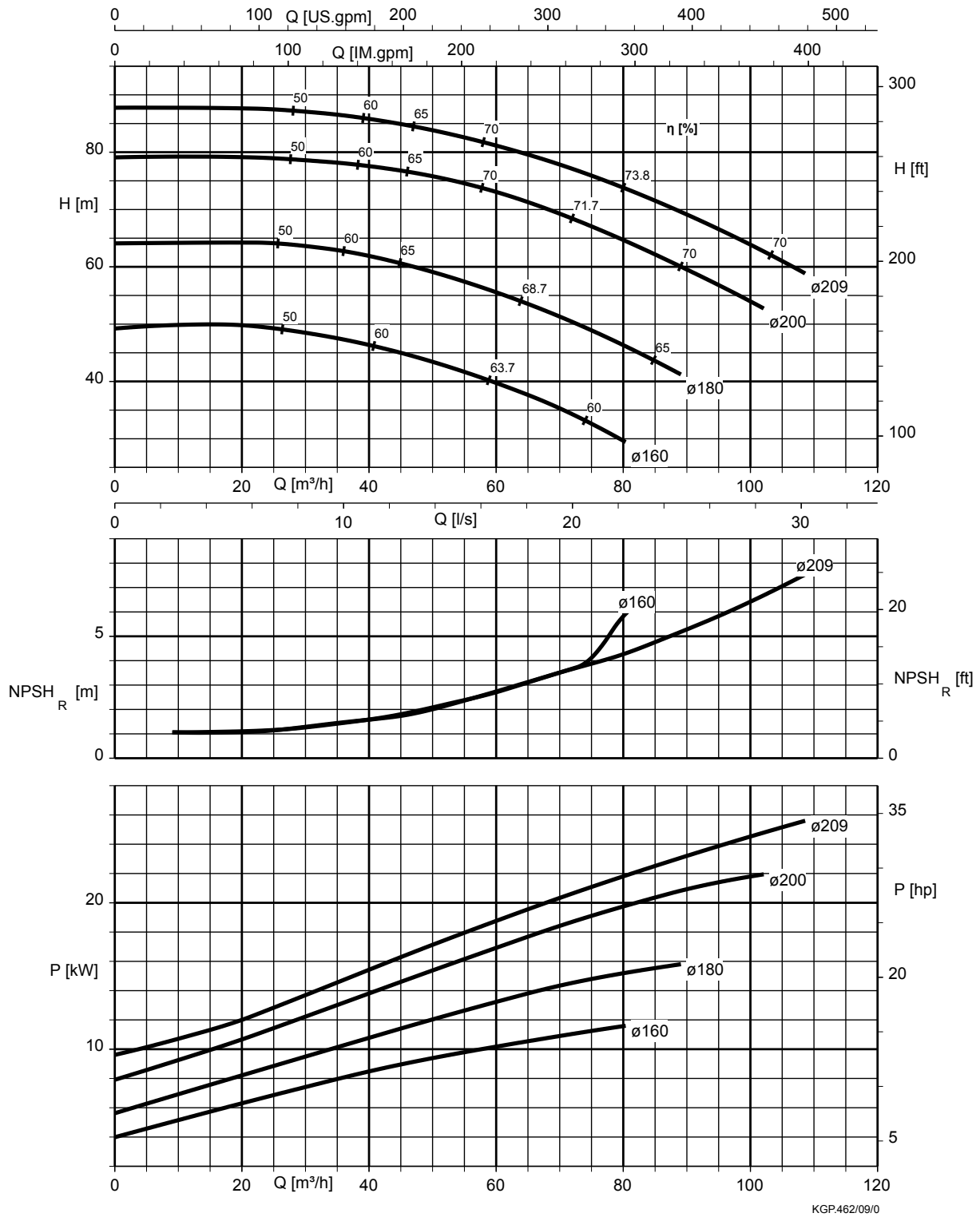
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HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



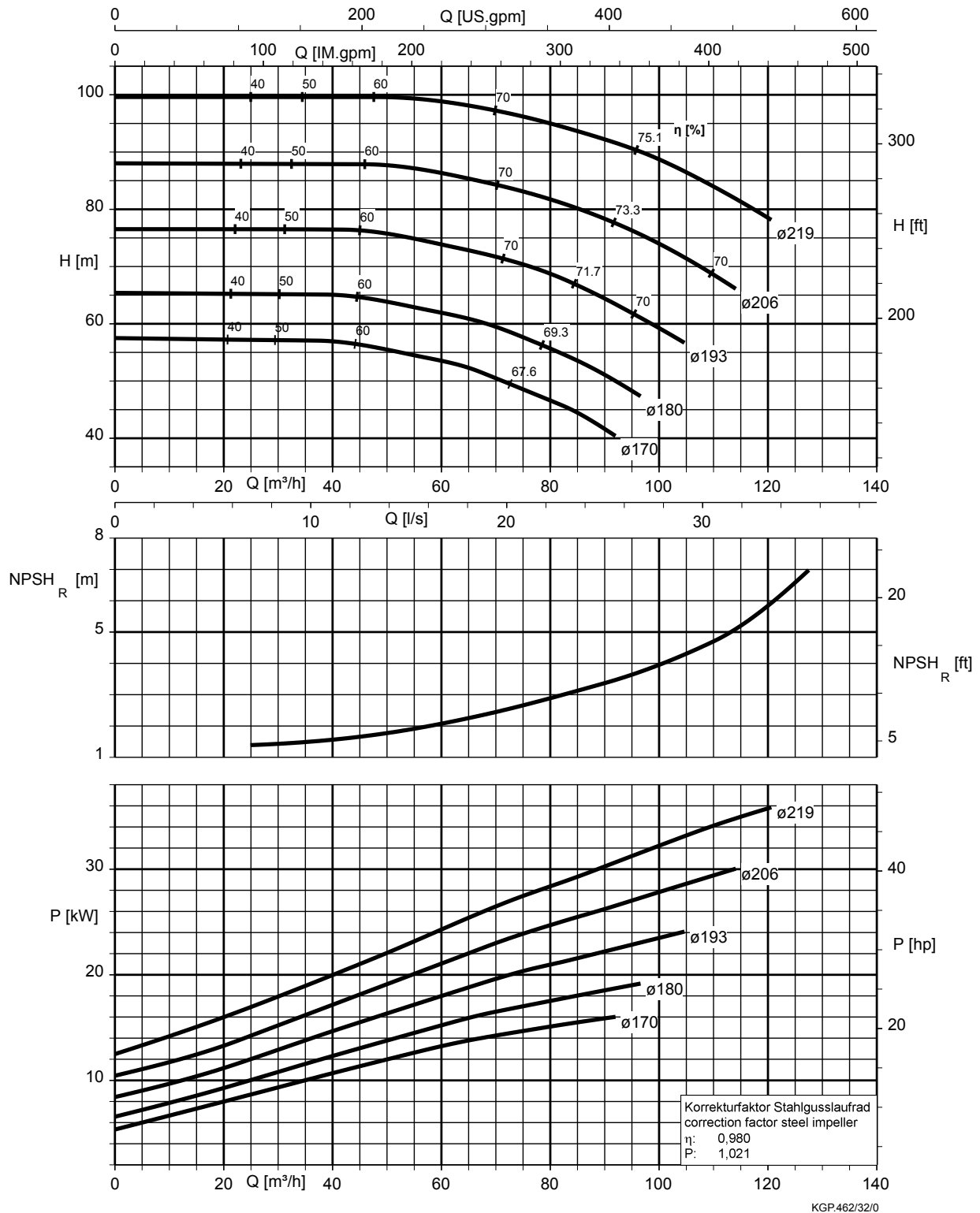
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Magnochem, Magnochem-Bloc



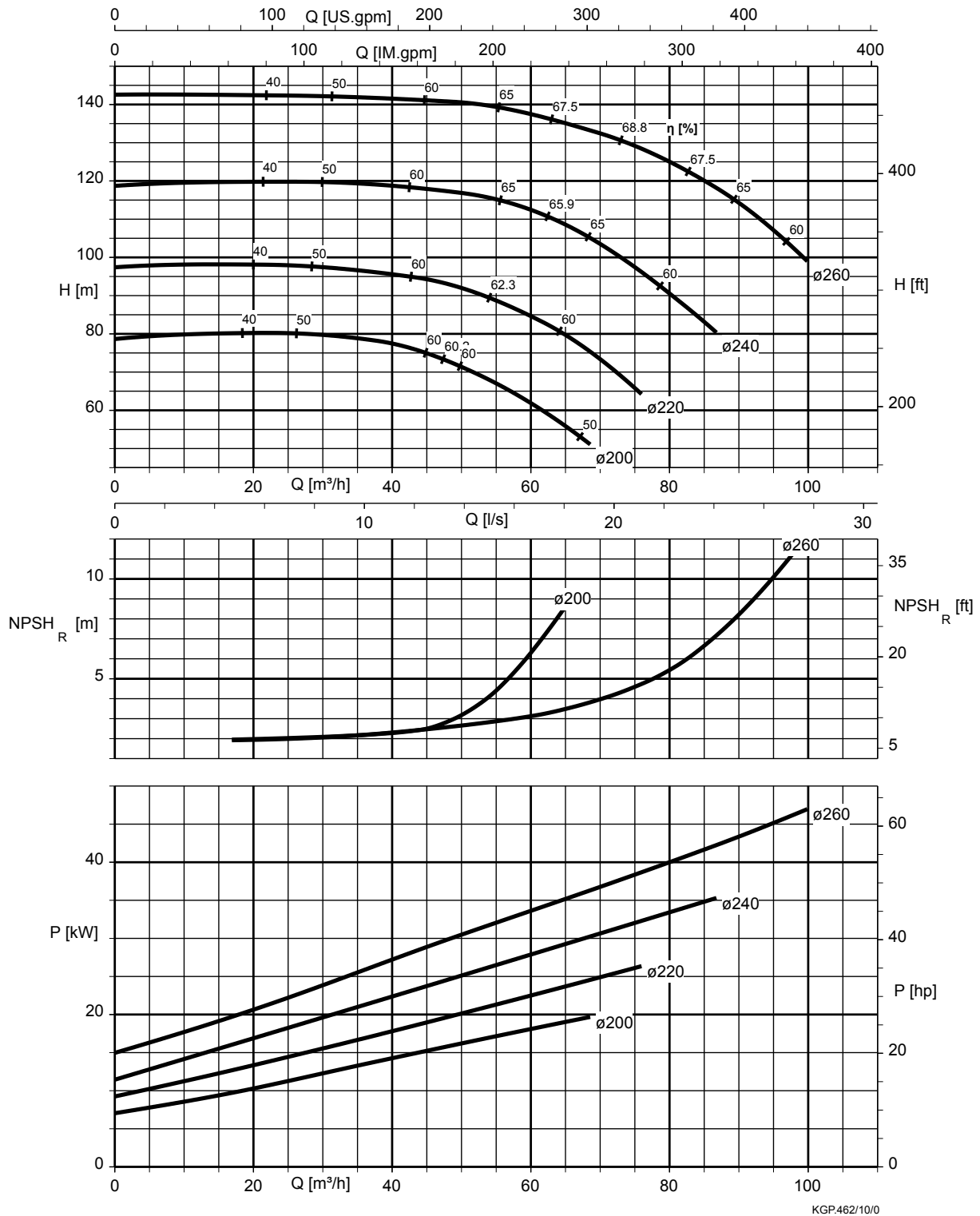
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HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



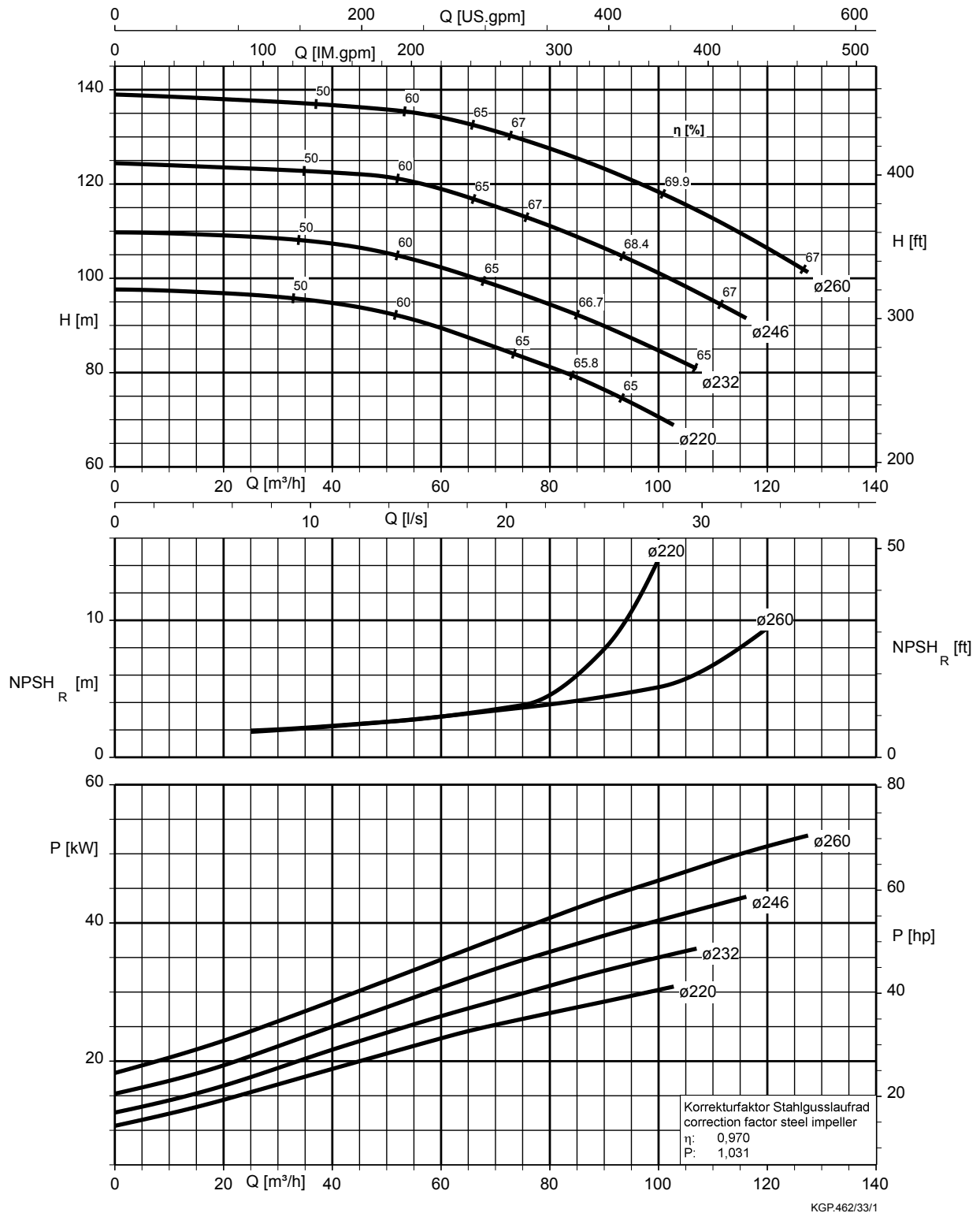
MegaCPK 080-050-250.1, n = 3500 rpm

Magnochem, Magnochem-Bloc



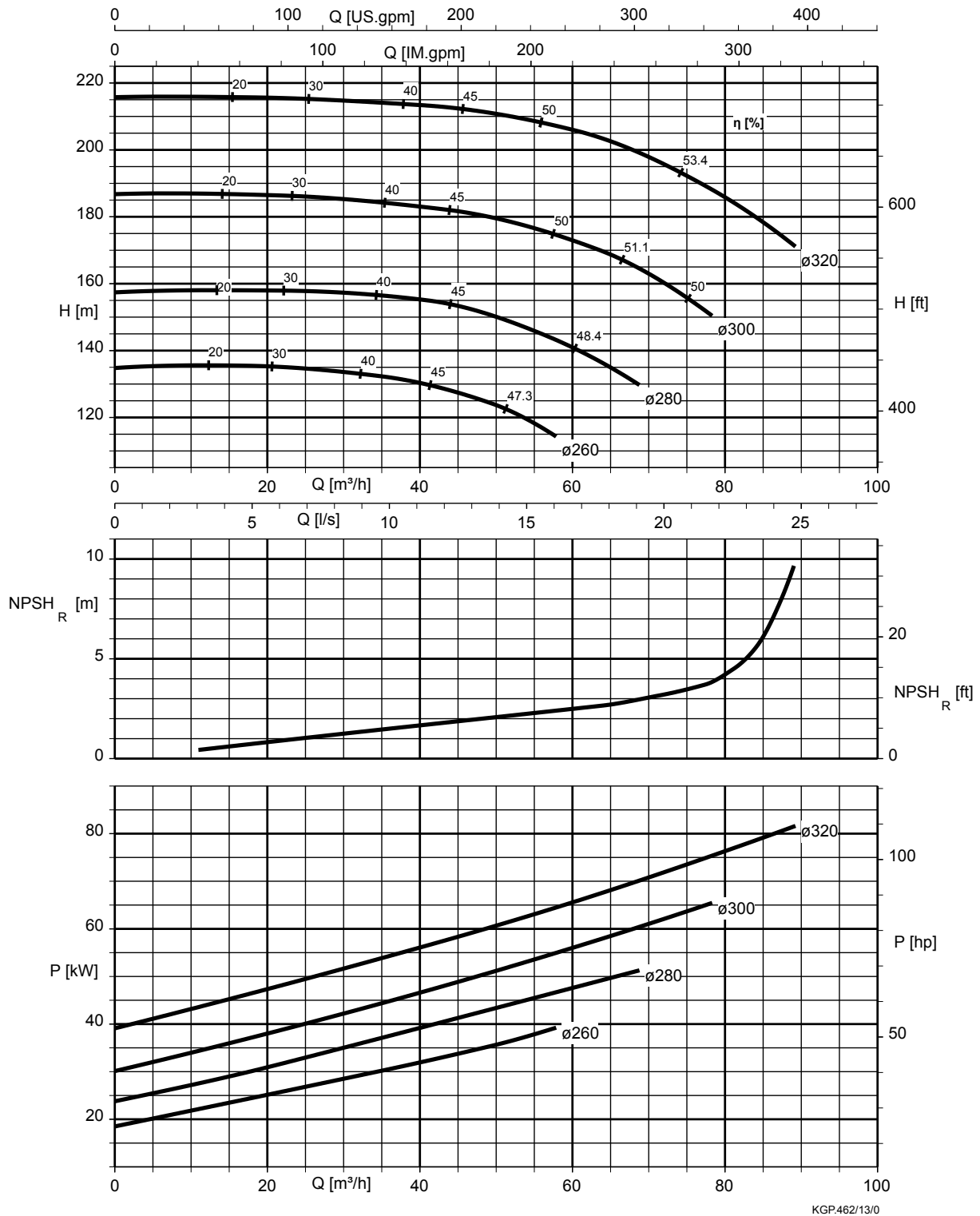
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HPK-L, Magnochem, Magnochem-Bloc, Meganorm



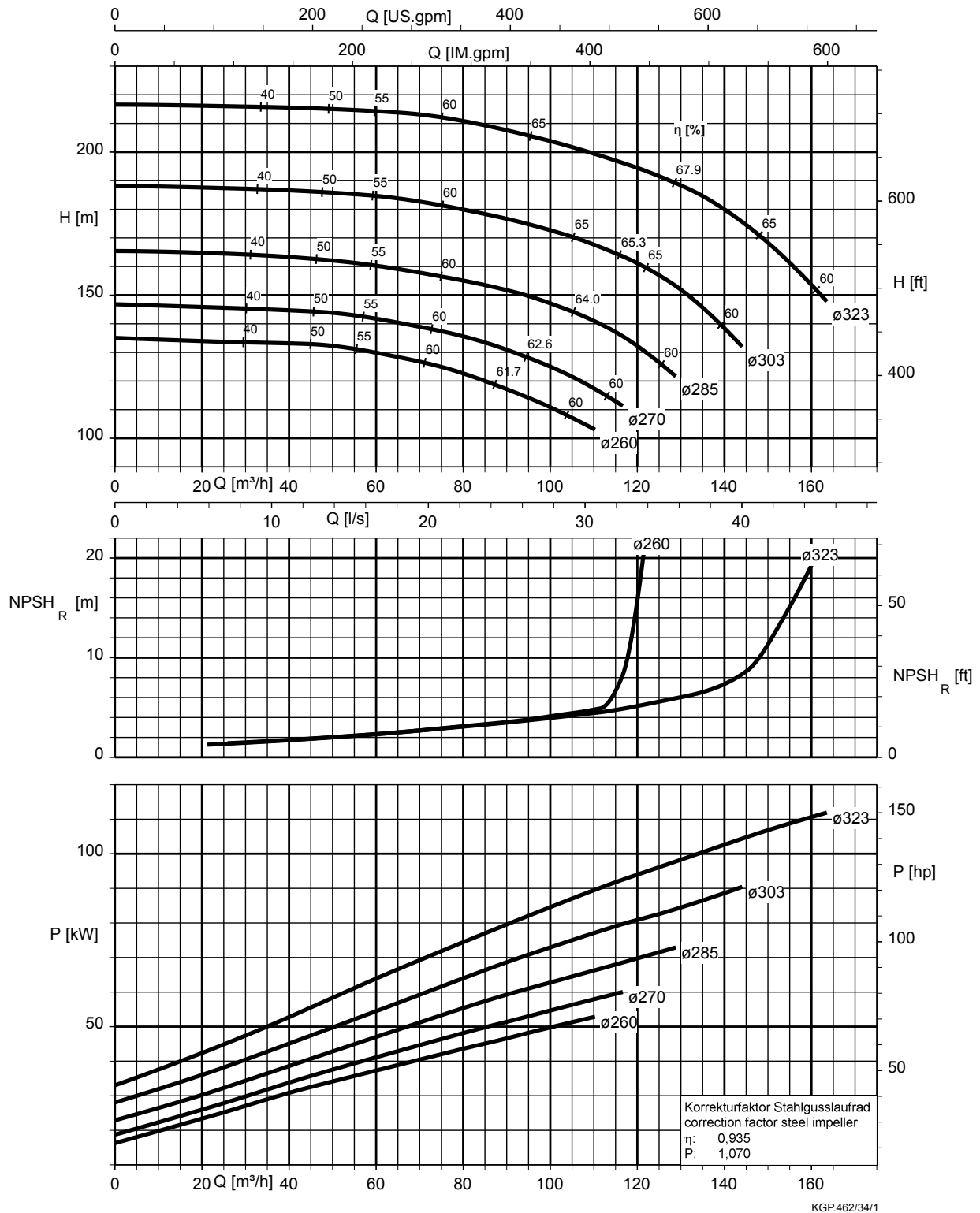
MegaCPK 080-050-315.1, n = 3500 rpm

HPK-L, Magnochem, Magnochem-Bloc



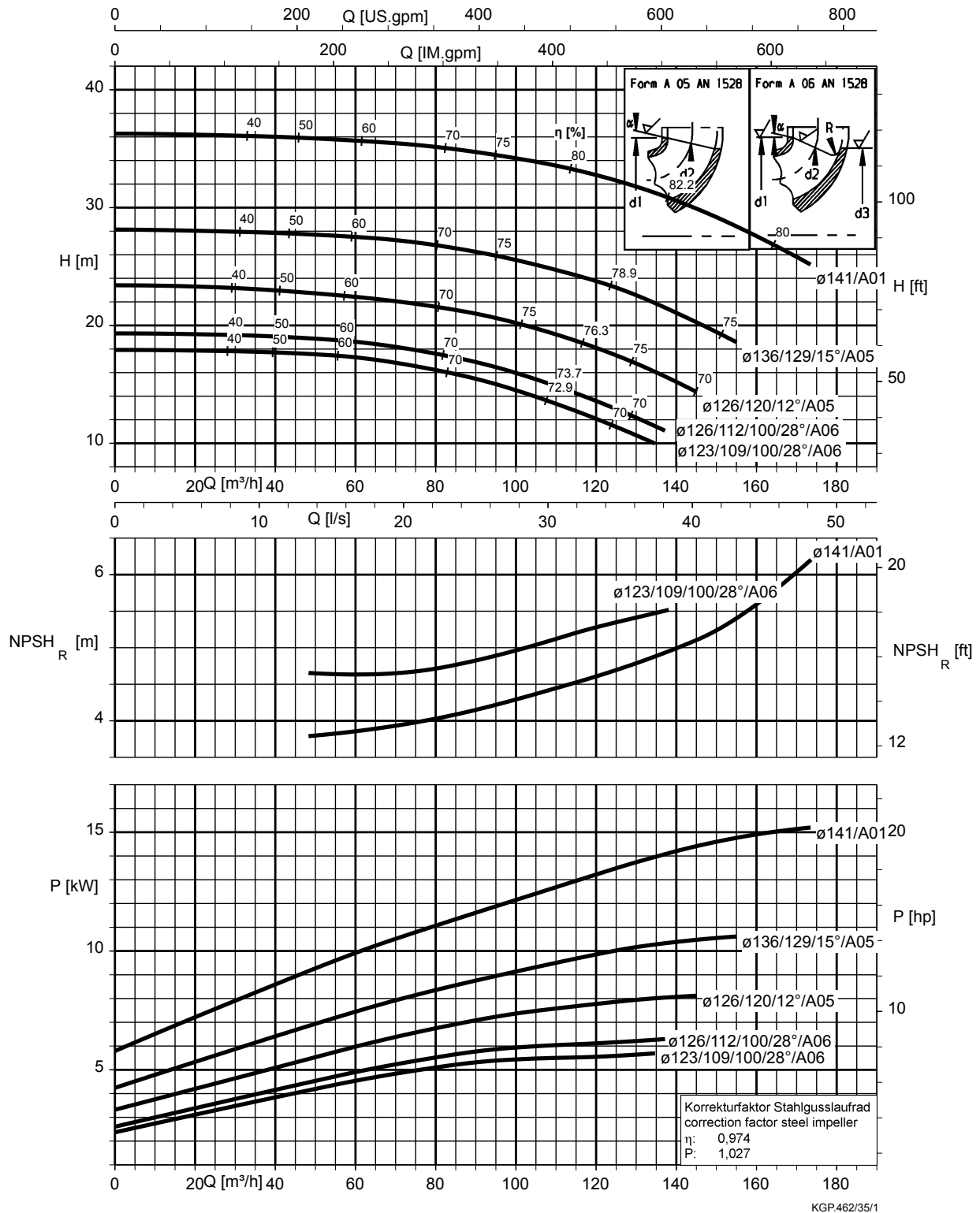
MegaCPK 080-050-315, n = 3500 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



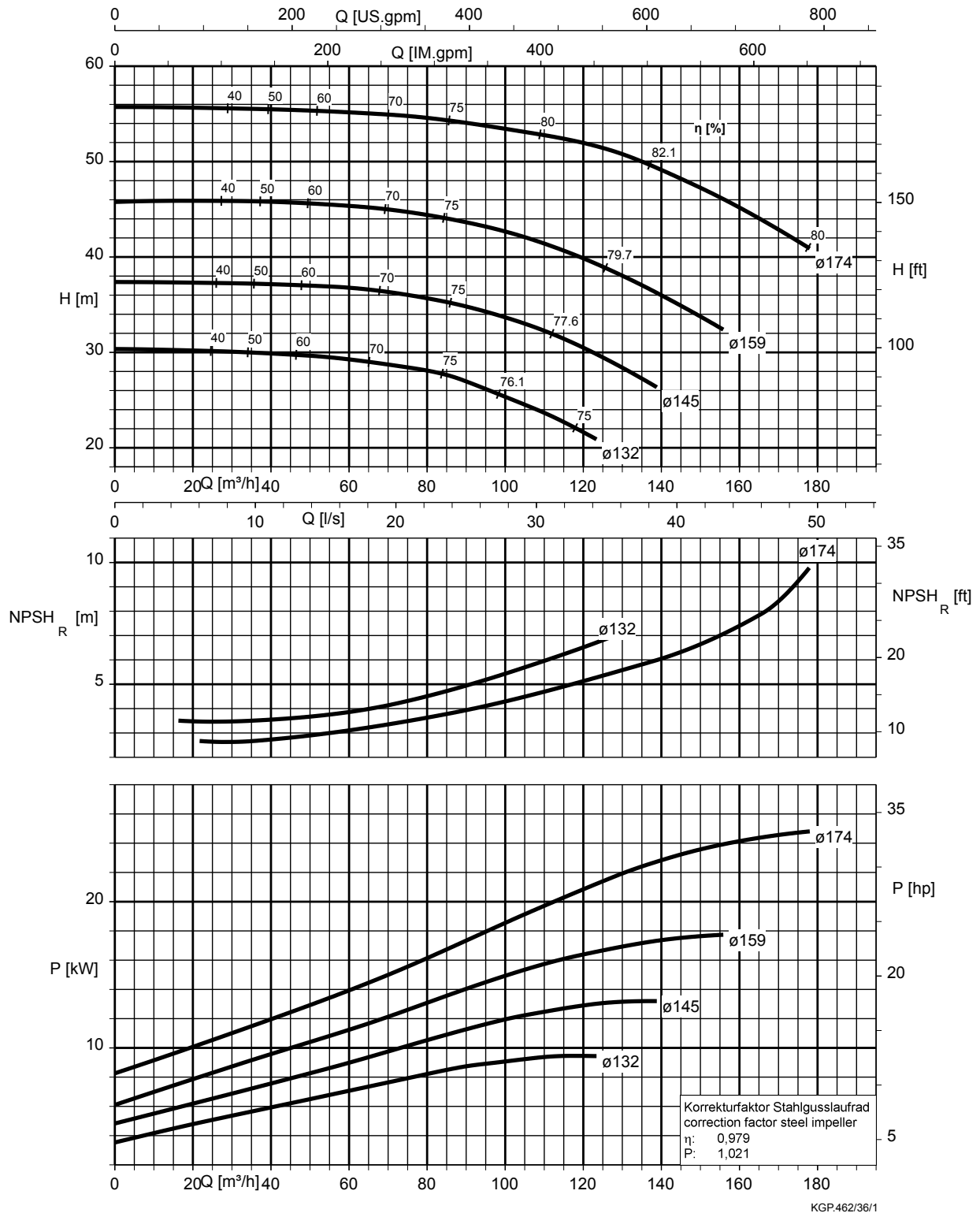
MegaCPK 100-065-125, n = 3500 rpm

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



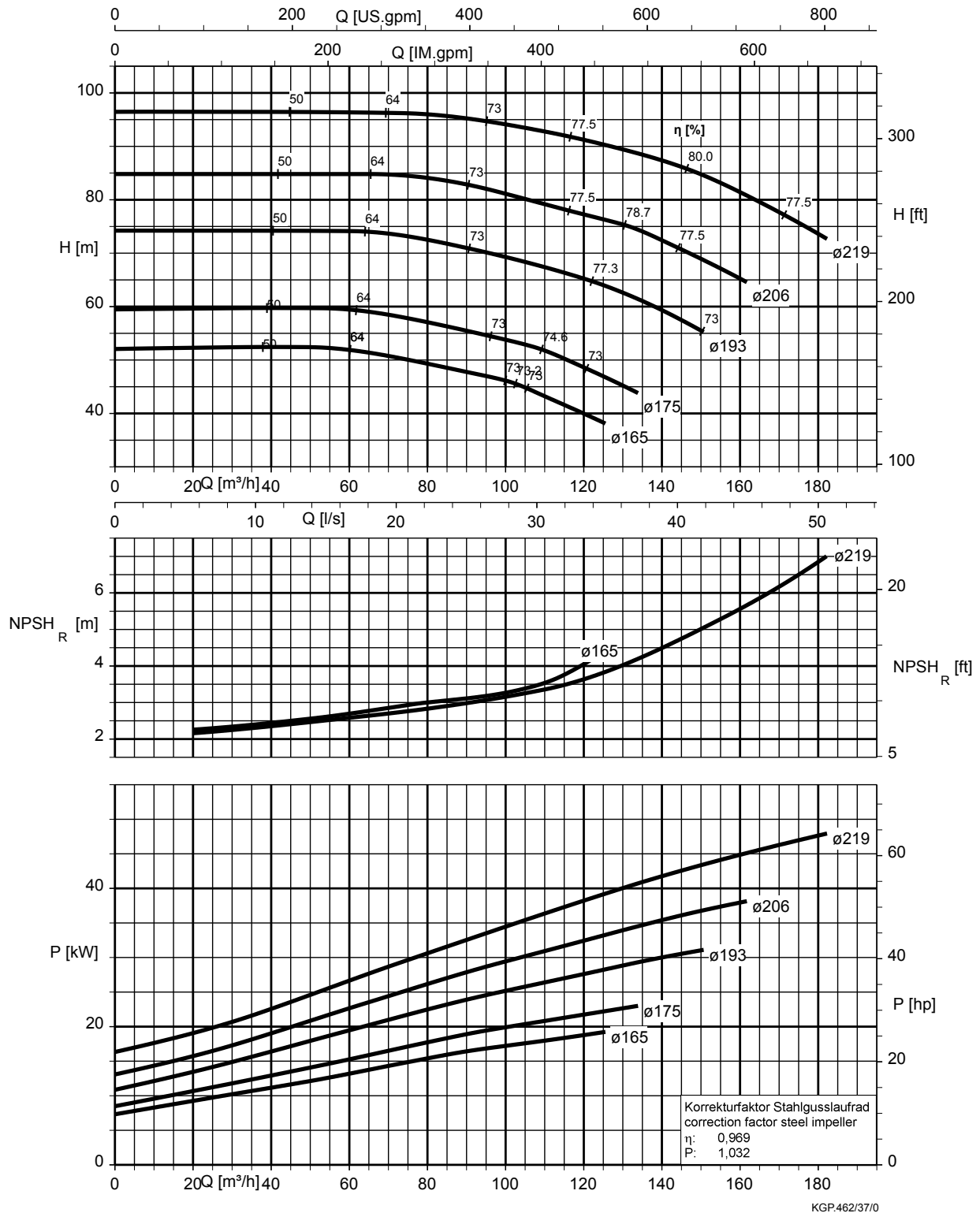
MegaCPK 100-065-160, n = 3500 rpm

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



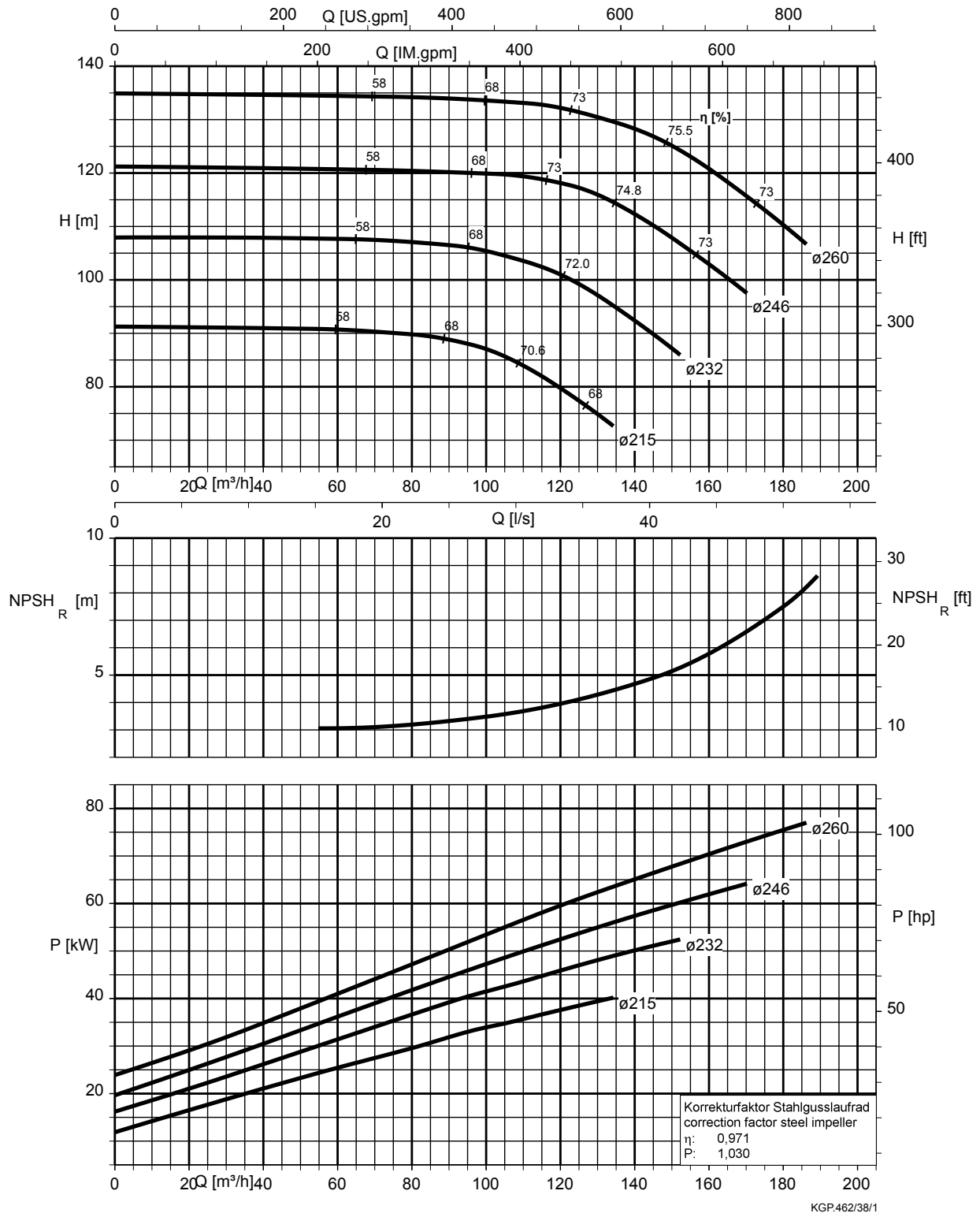
MegaCPK 100-065-200, n = 3500 rpm

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



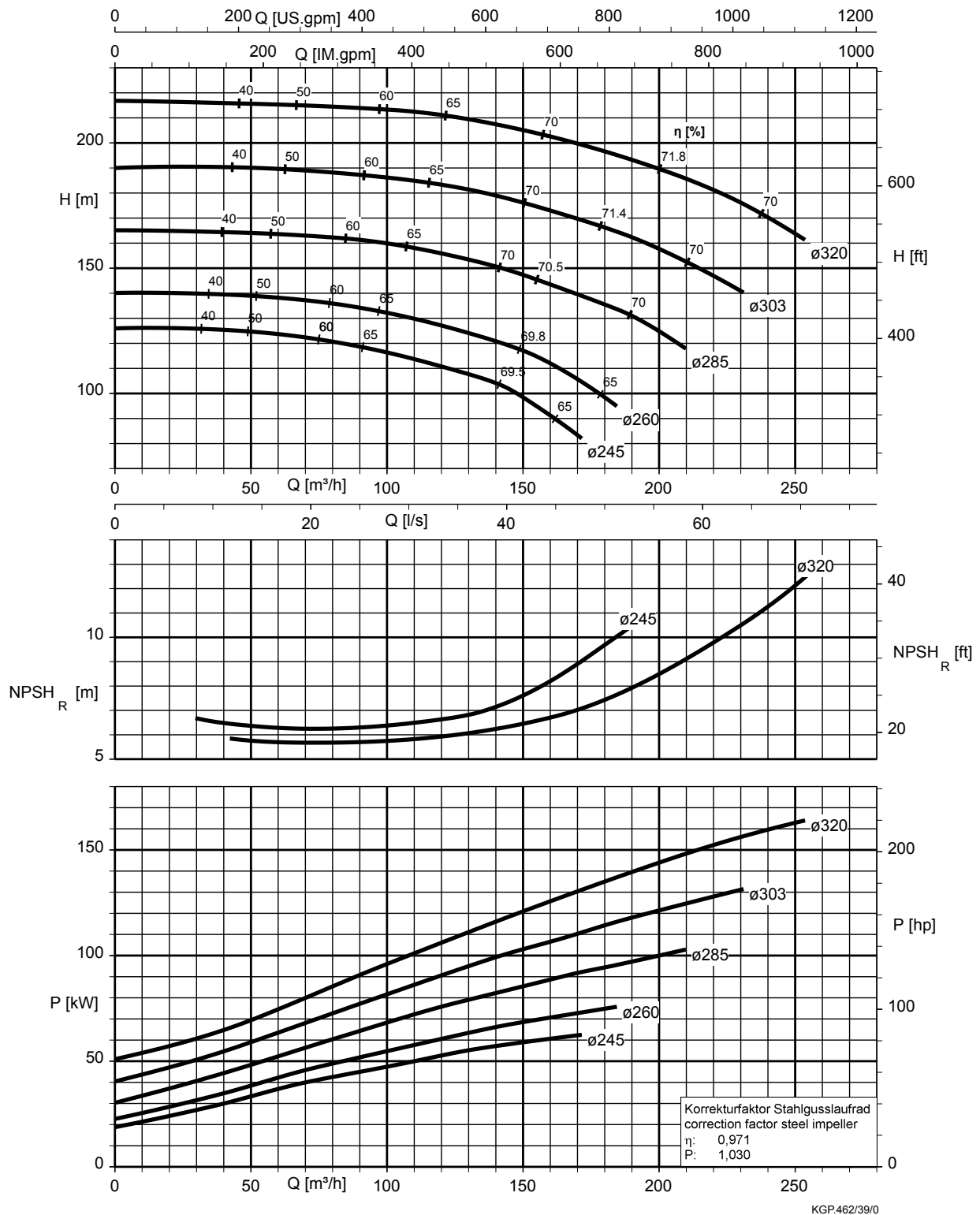
MegaCPK 100-065-250, n = 3500 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



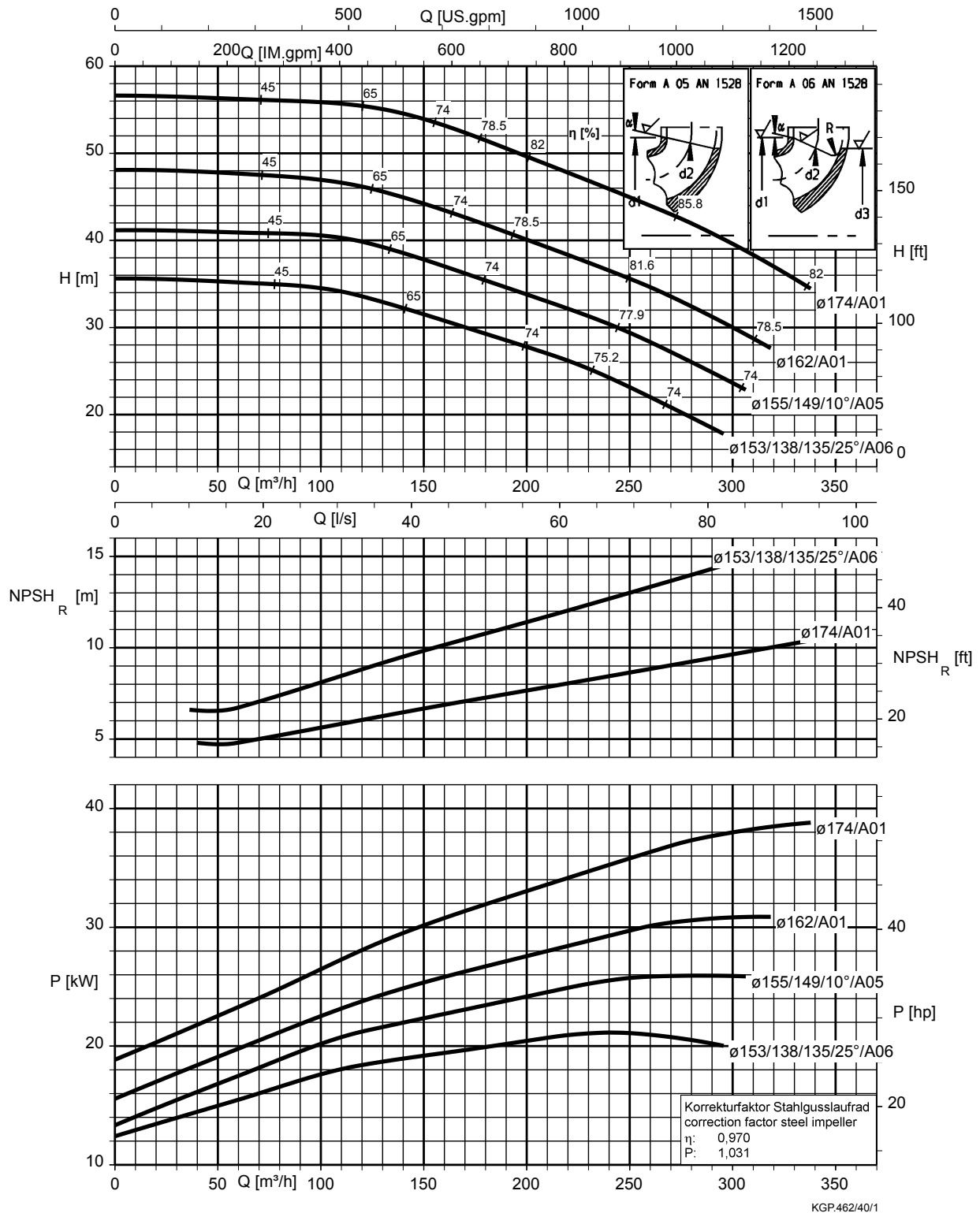
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HPK-L, Magnochem, Magnochem-Bloc, Meganorm



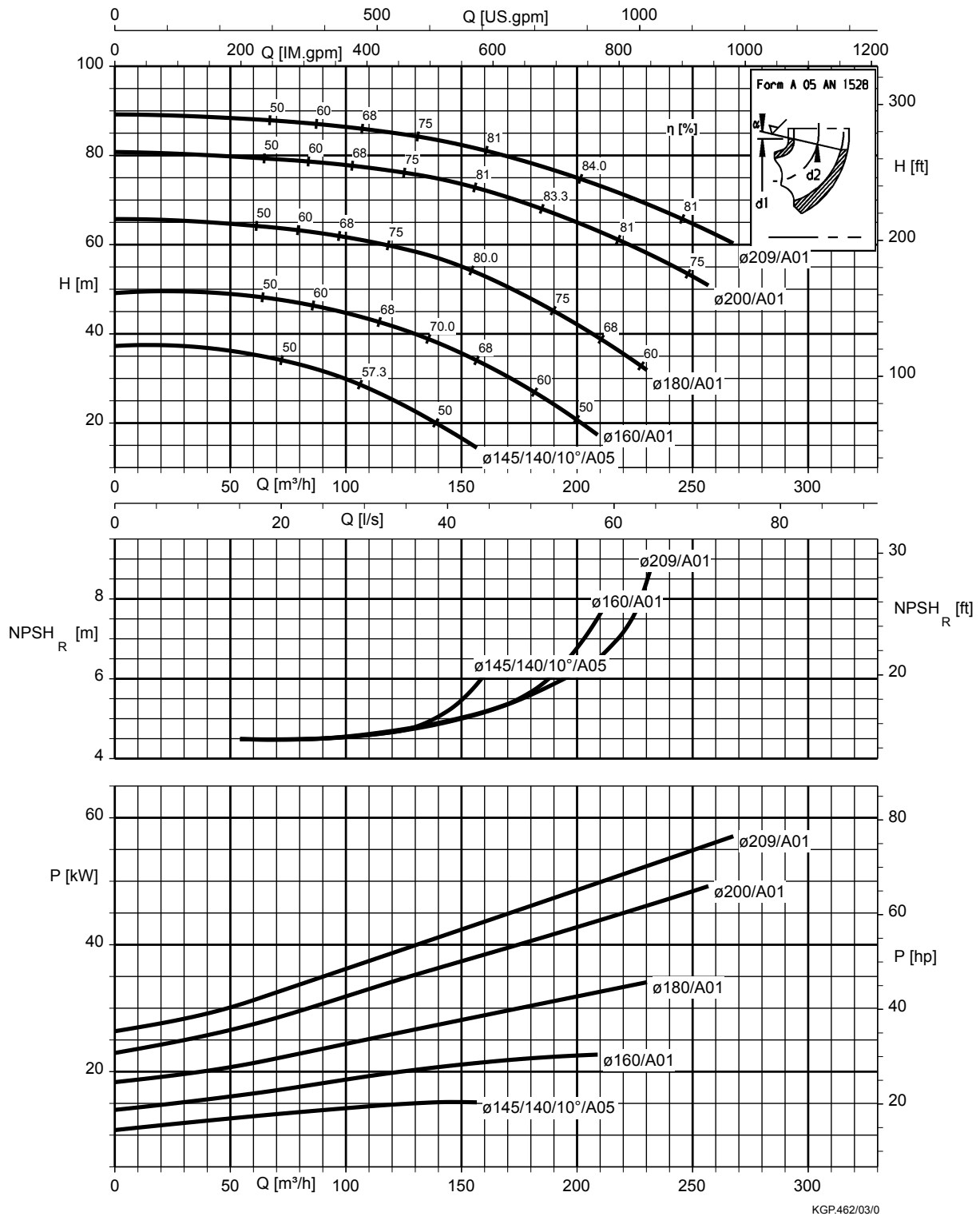
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HPK-L, Magnochem, Magnochem-Bloc, Meganorm



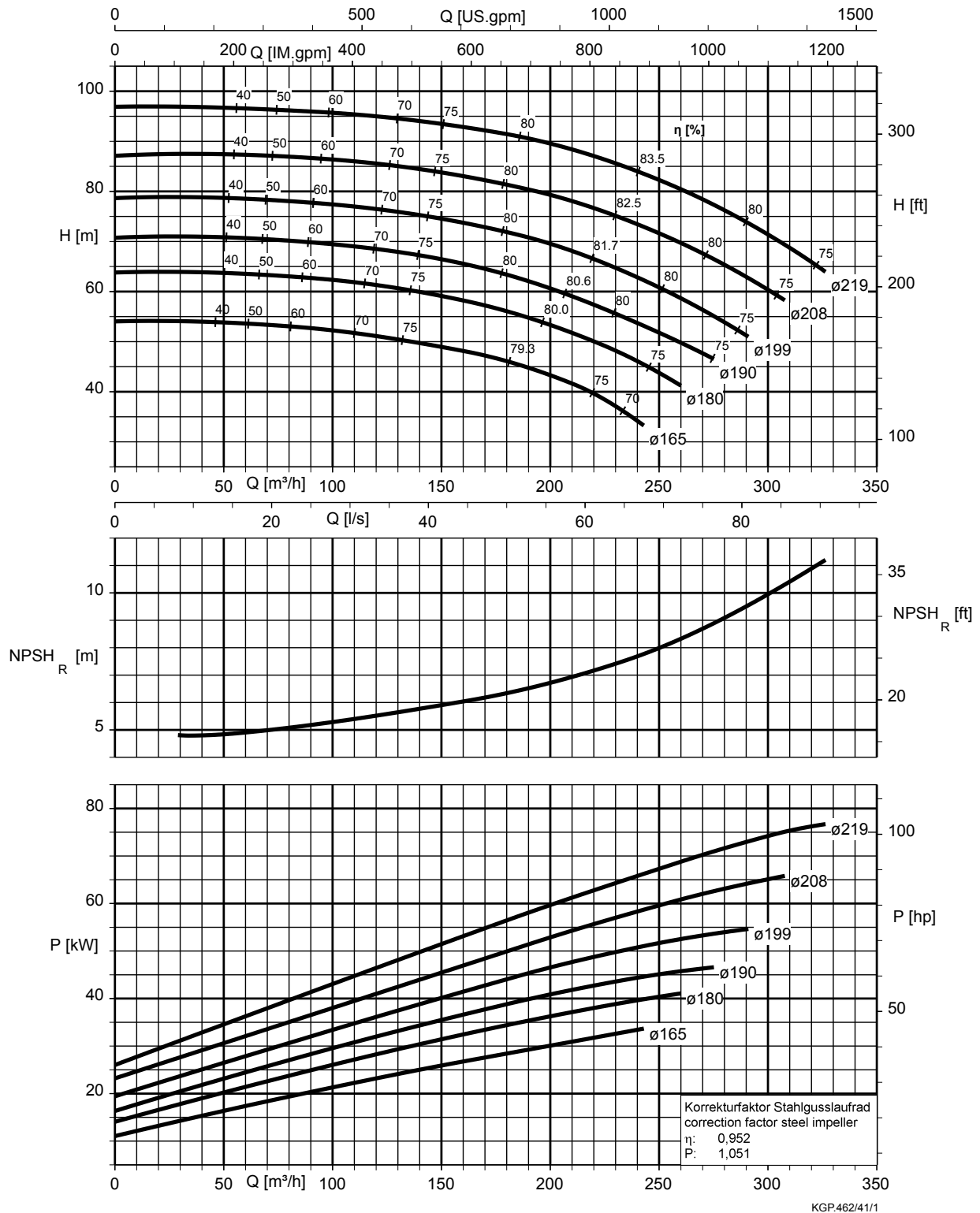
MegaCPK 125-080-200.1, n = 3500 rpm

Magnochem, Magnochem-Bloc



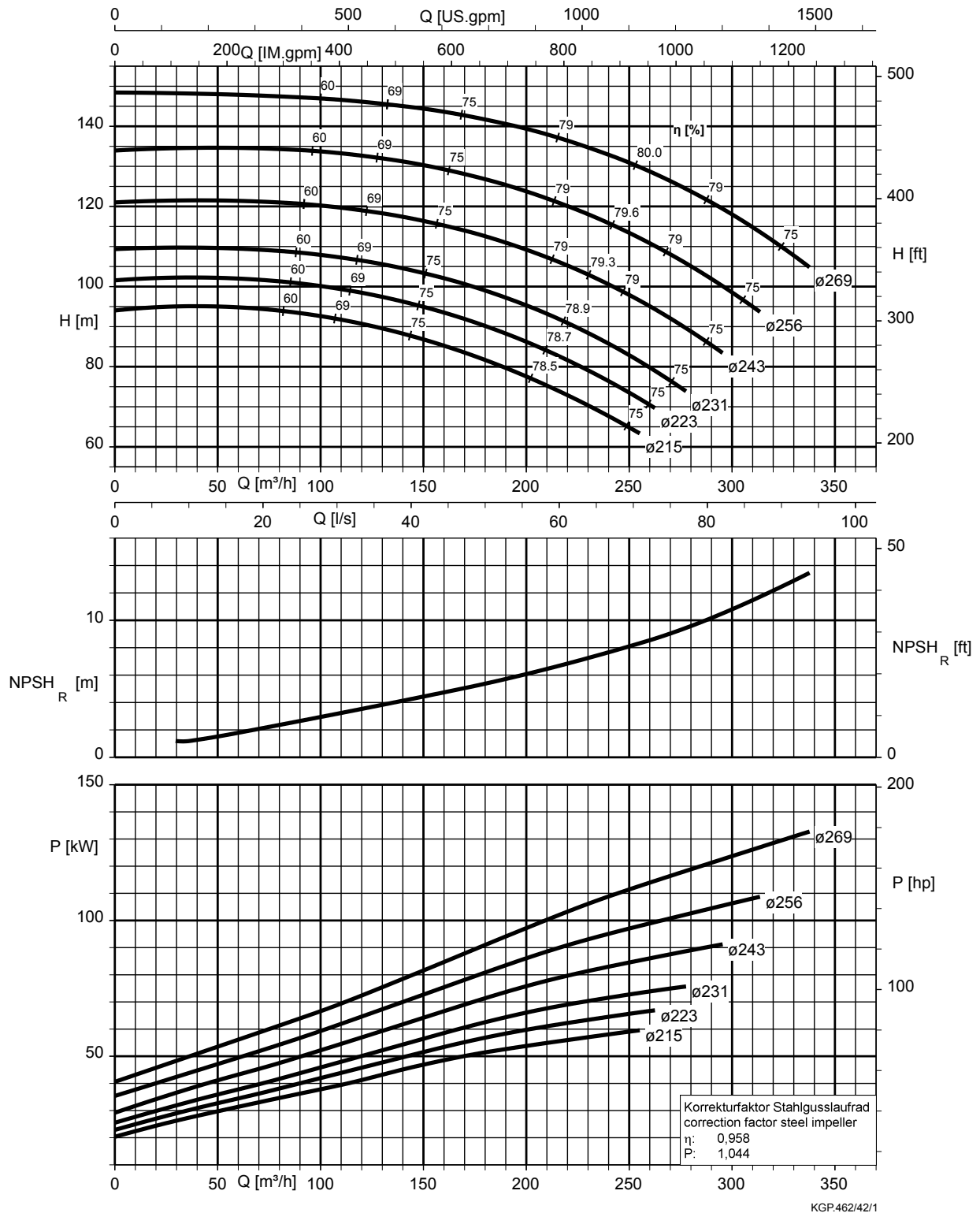
MegaCPK 125-080-200, n = 3500 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



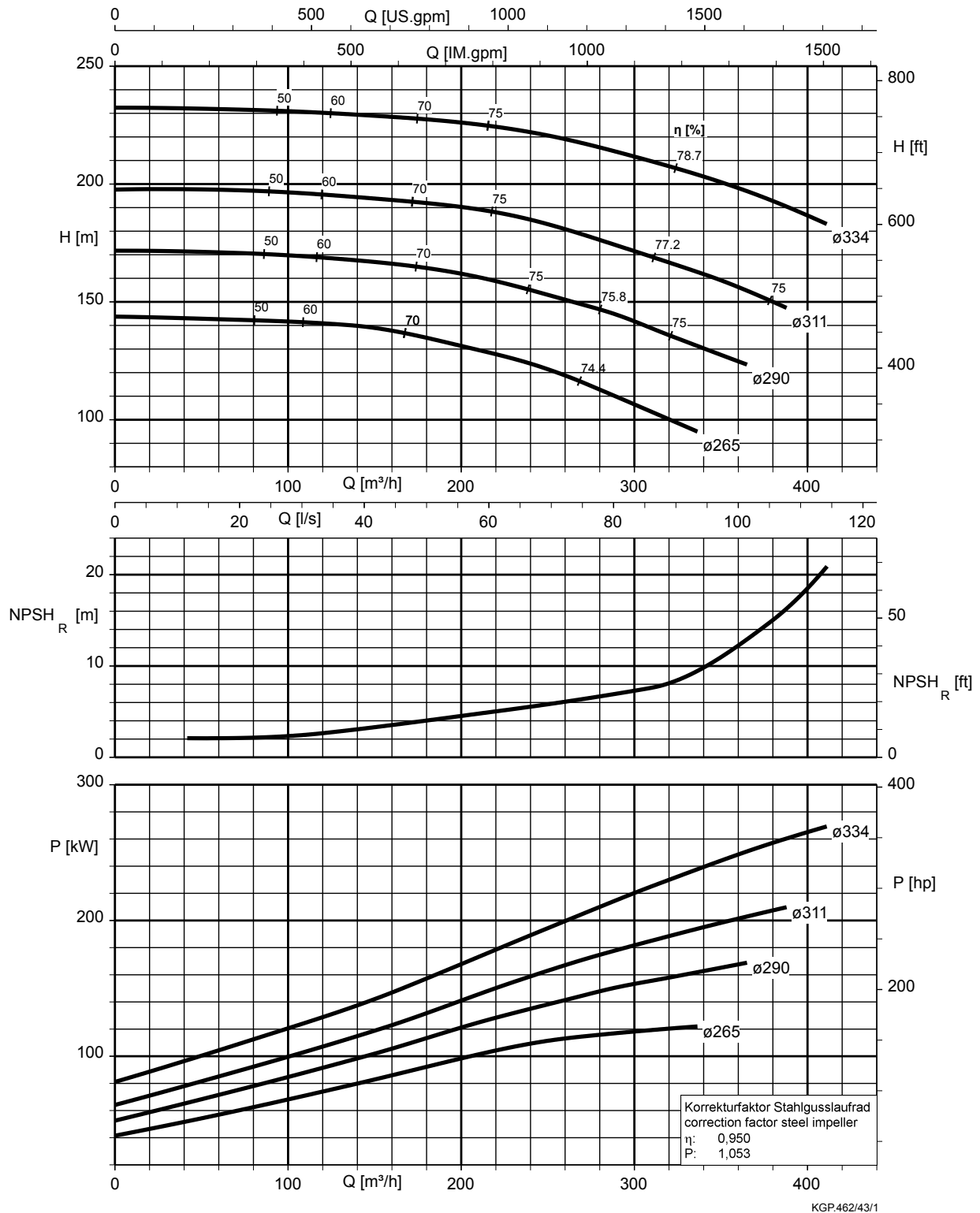
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HPK-L, Magnochem, Magnochem-Bloc, Meganorm



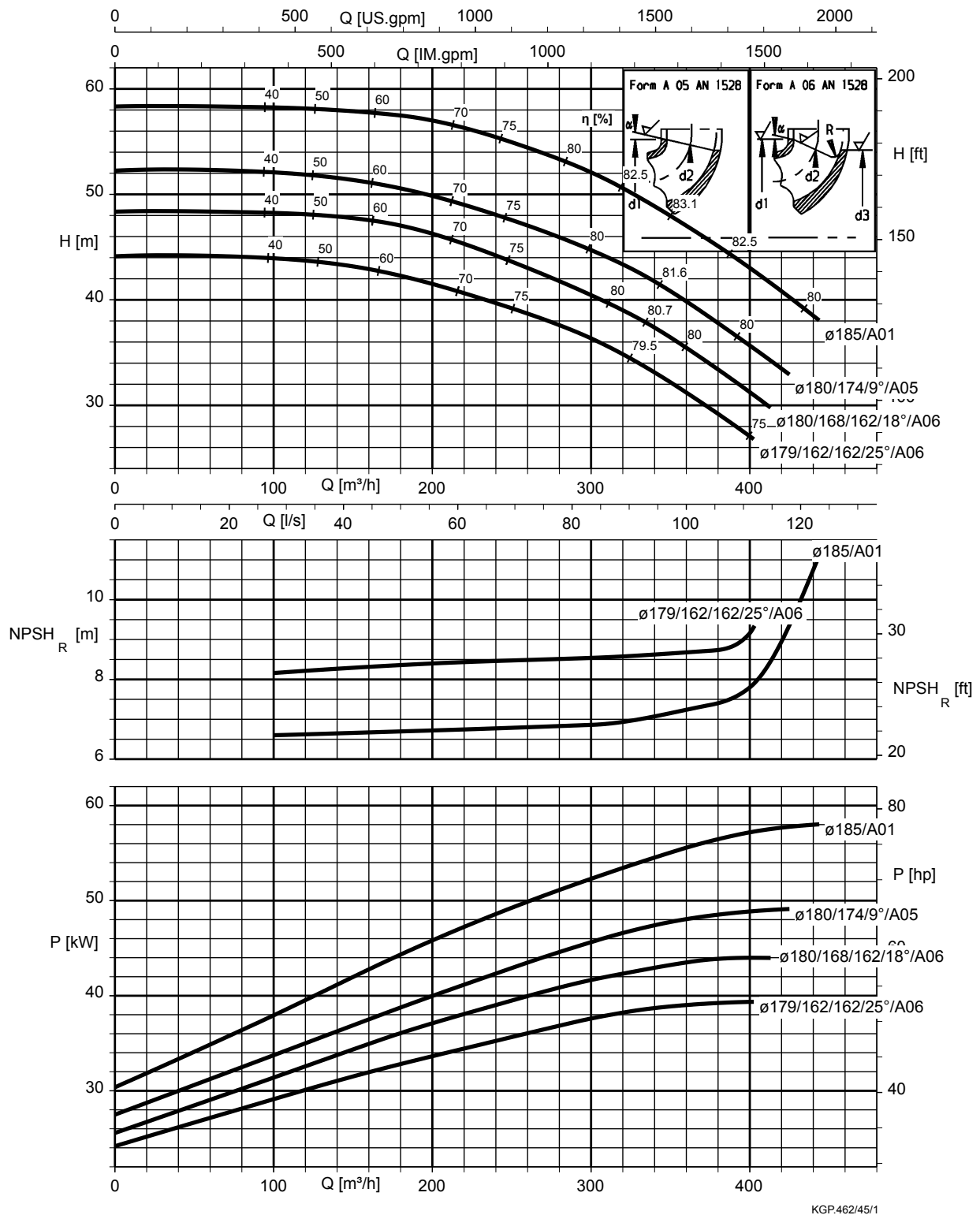
MegaCPK 125-080-315, n = 3500 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



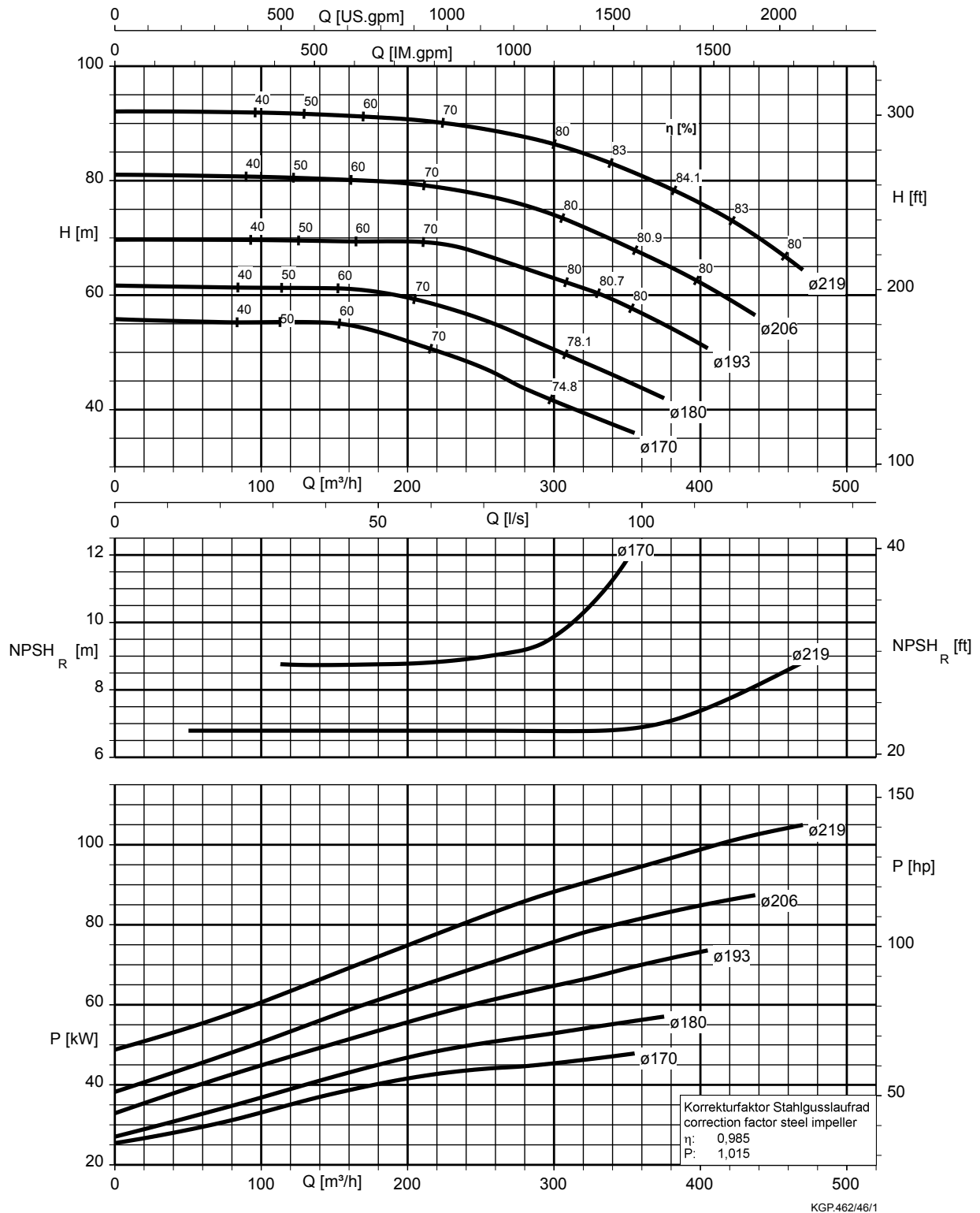
MegaCPK 125-100-160, n = 3500 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



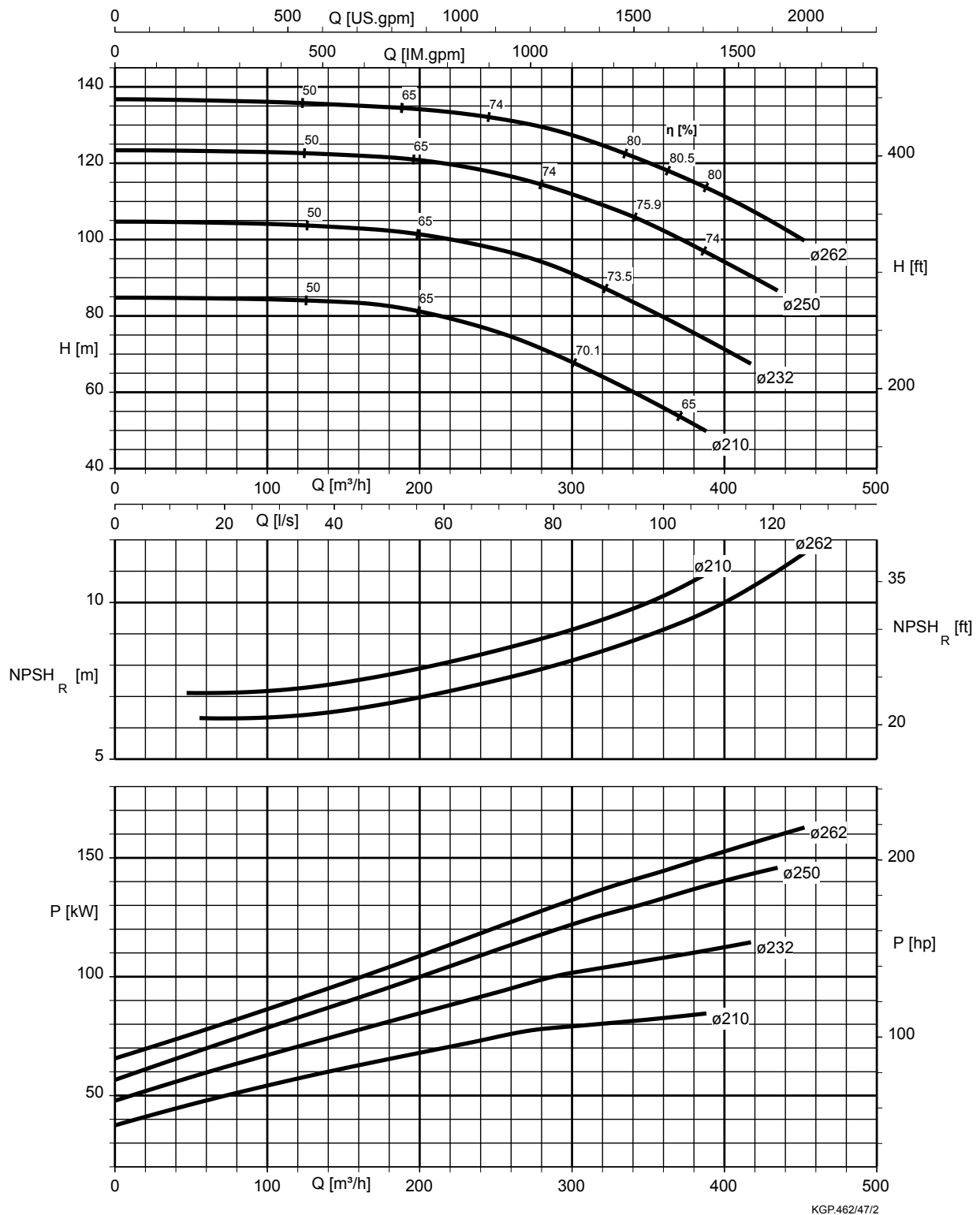
MegaCPK 125-100-200, n = 3500 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



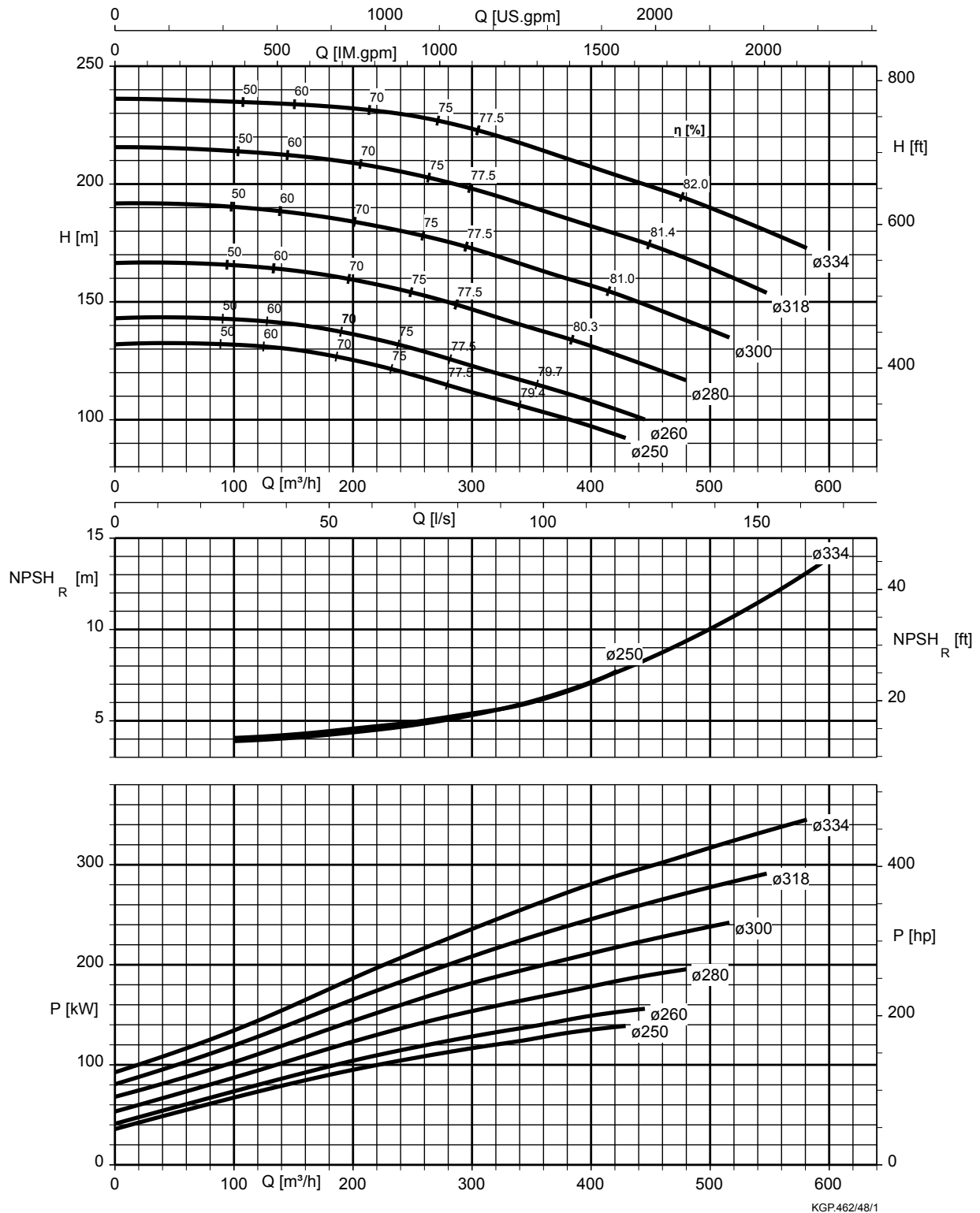
MegaCPK 125-100-250, n = 3500 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



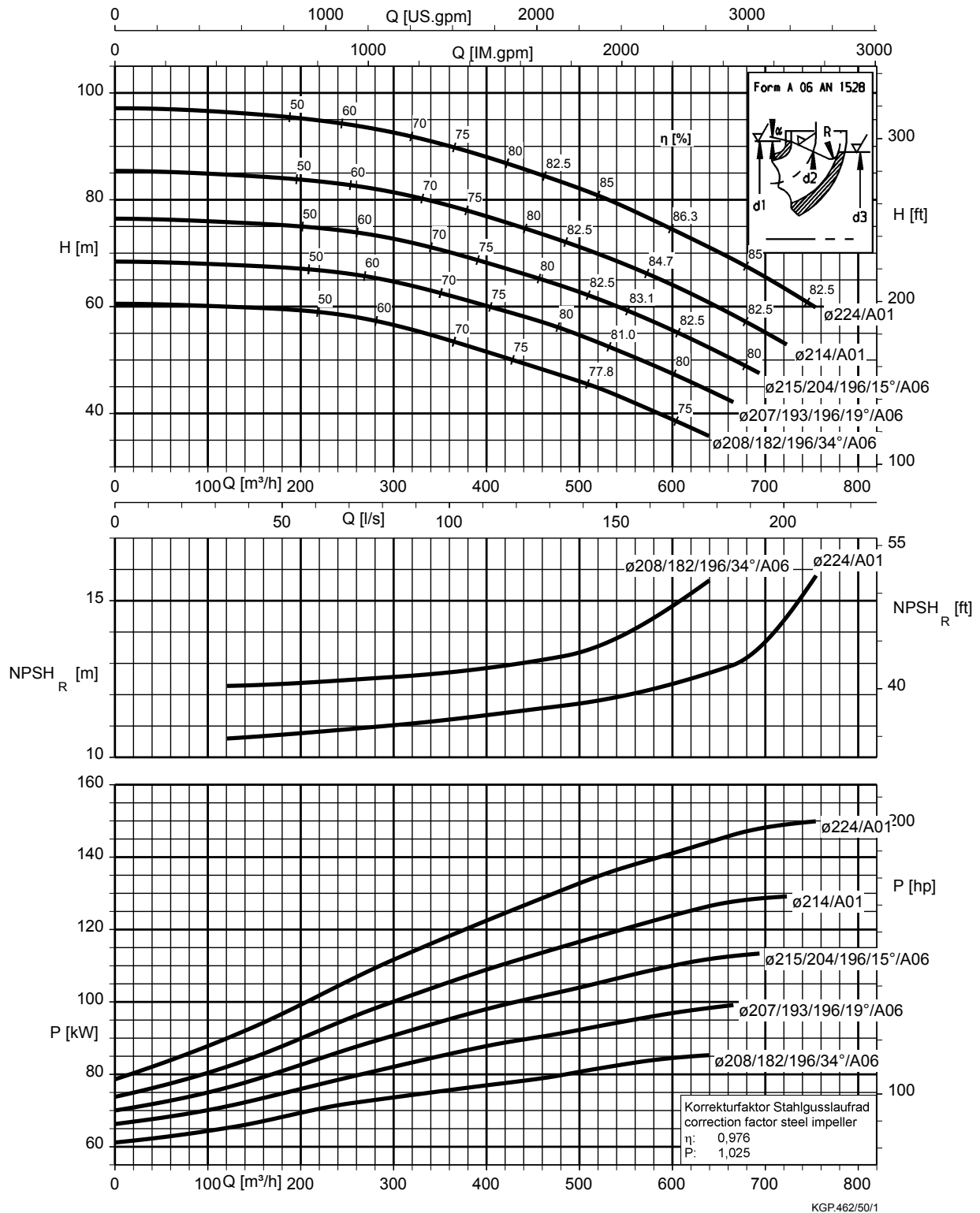
MegaCPK 125-100-315, n = 3500 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



MegaCPK 150-125-200, n = 3500 rpm

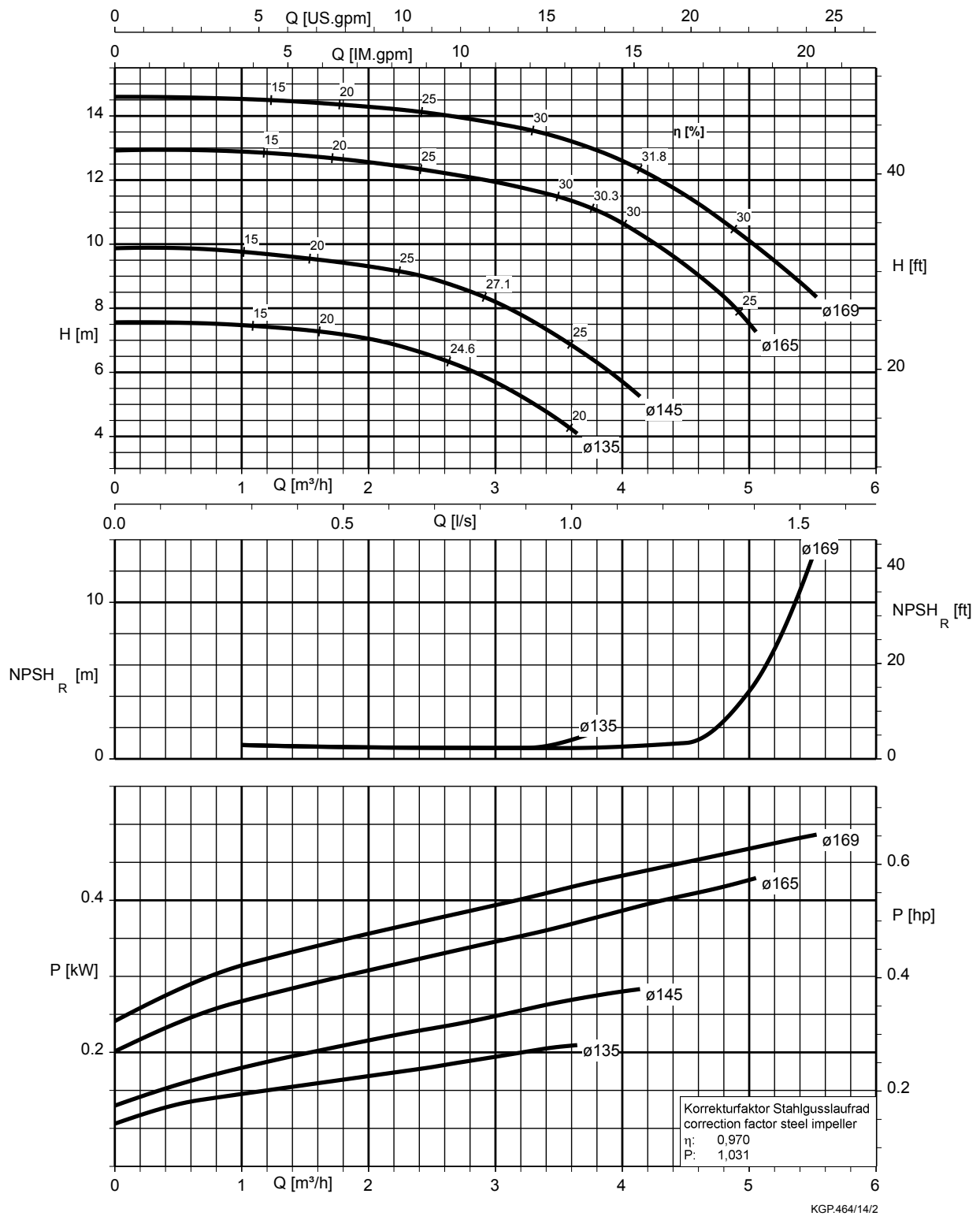
HPK-L, Magnochem, Magnochem-Bloc, Meganorm



$n = 1750 \text{ rpm}$

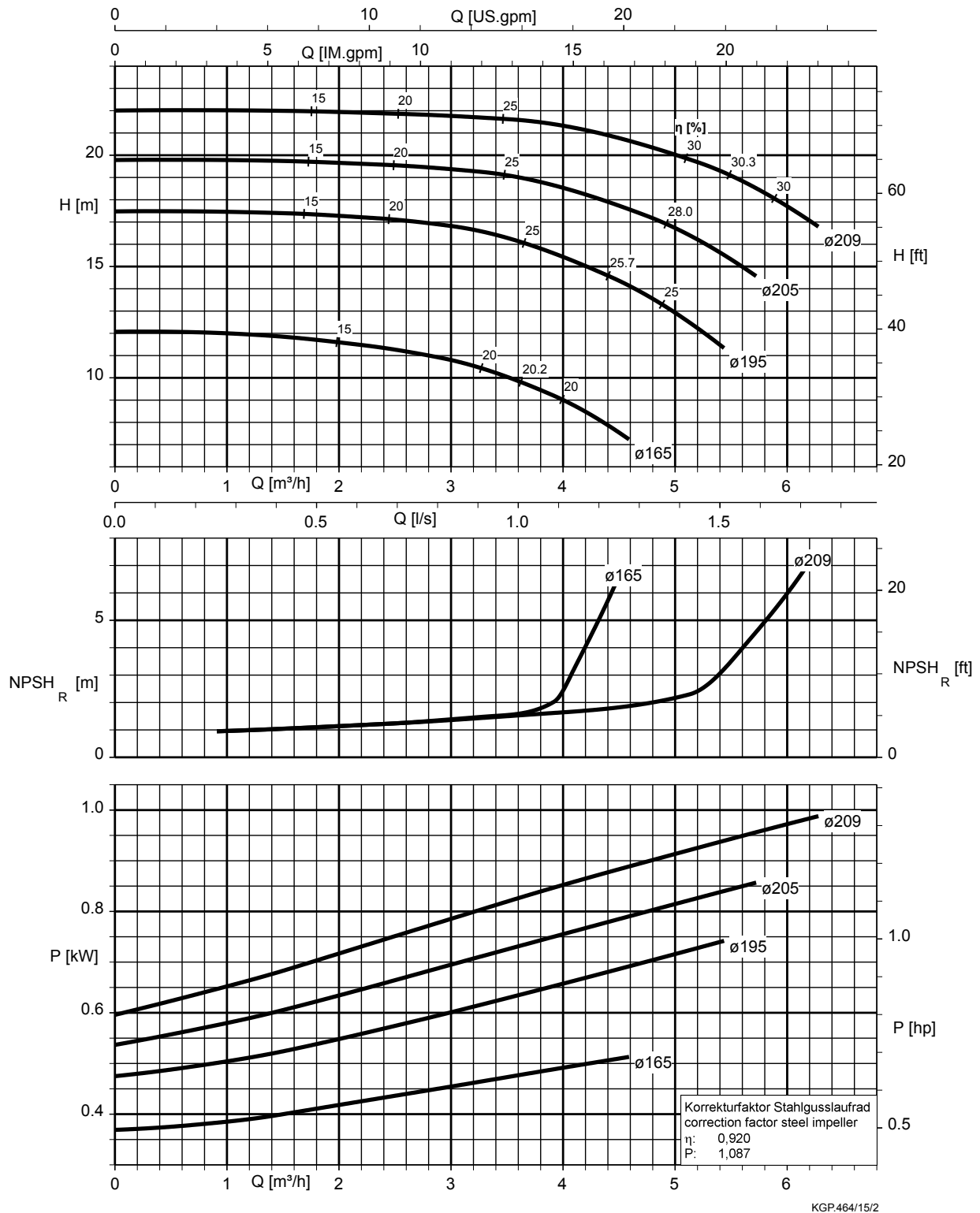
MegaCPK 040-025-160, $n = 1750 \text{ rpm}$

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



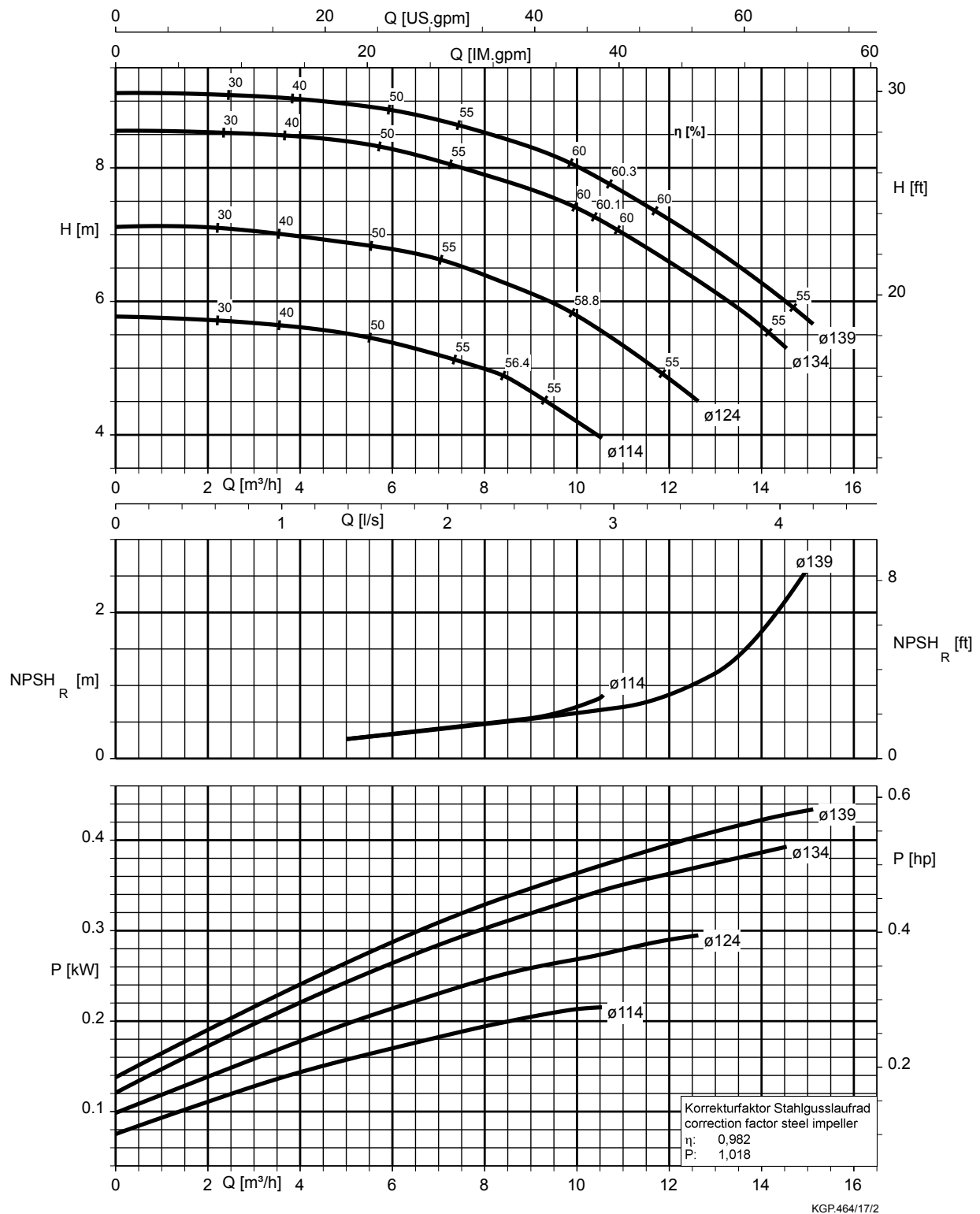
MegaCPK 040-025-200, n = 1750 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



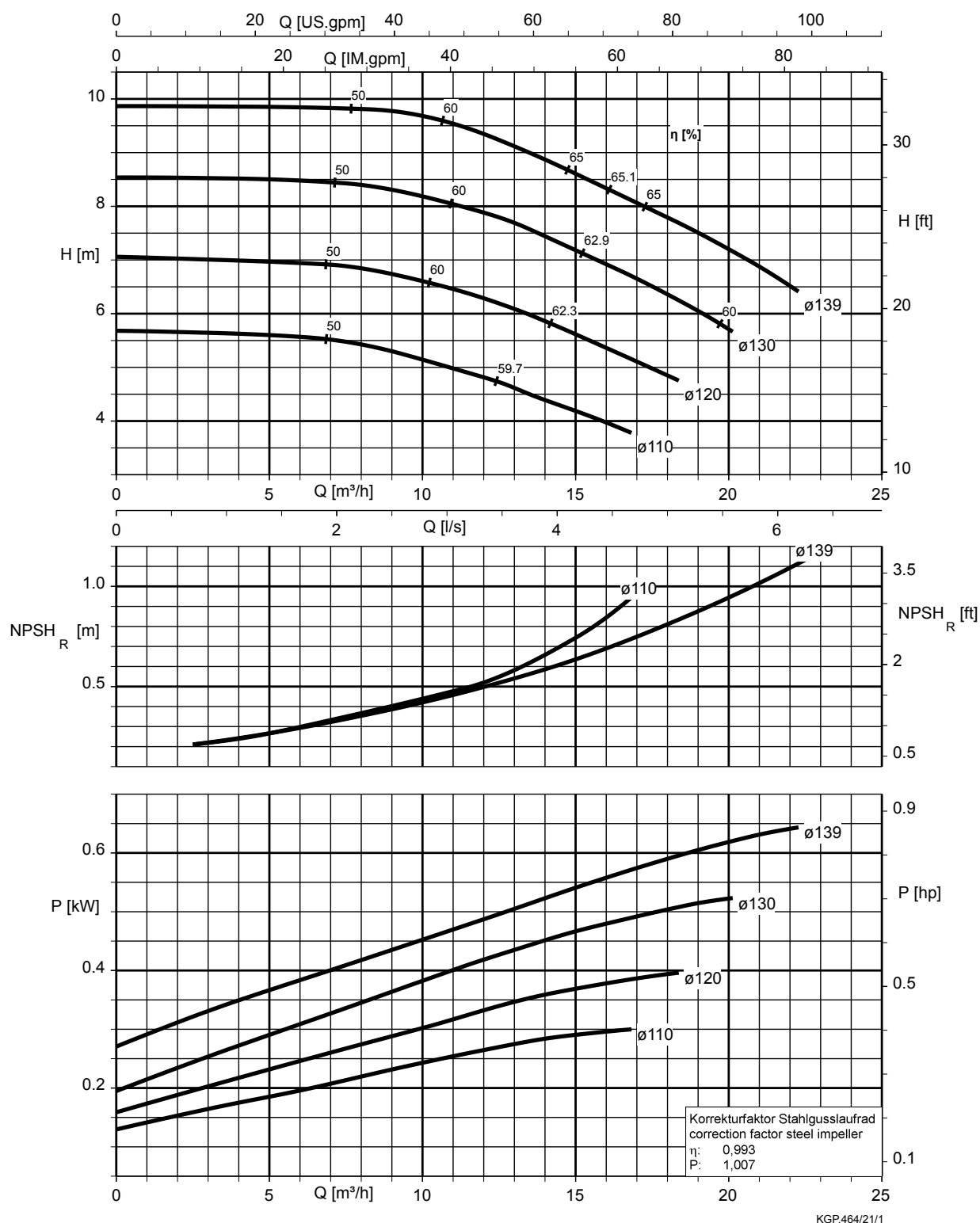
MegaCPK 050-032-125.1, n = 1750 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



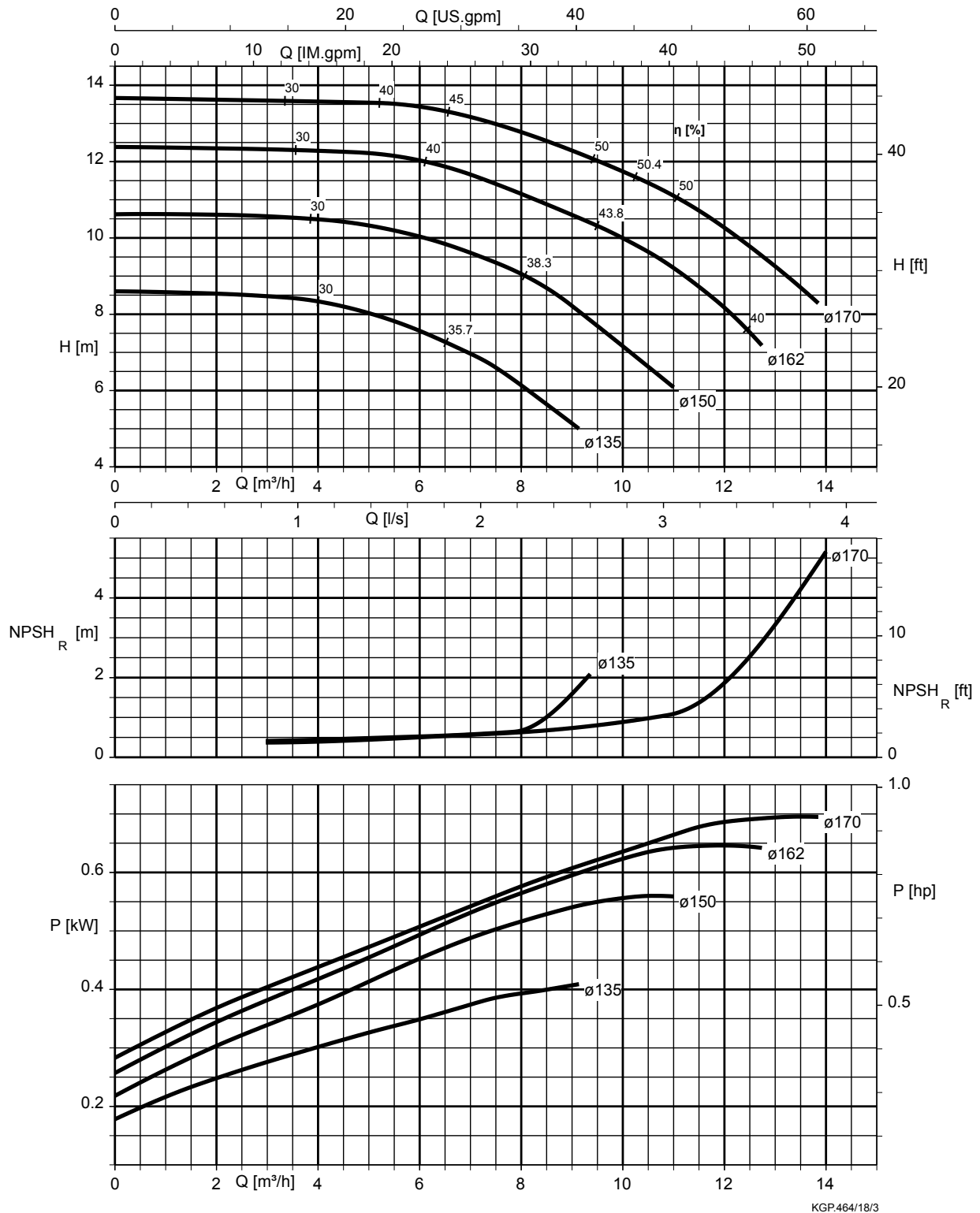
MegaCPK 050-032-125, n = 1750 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



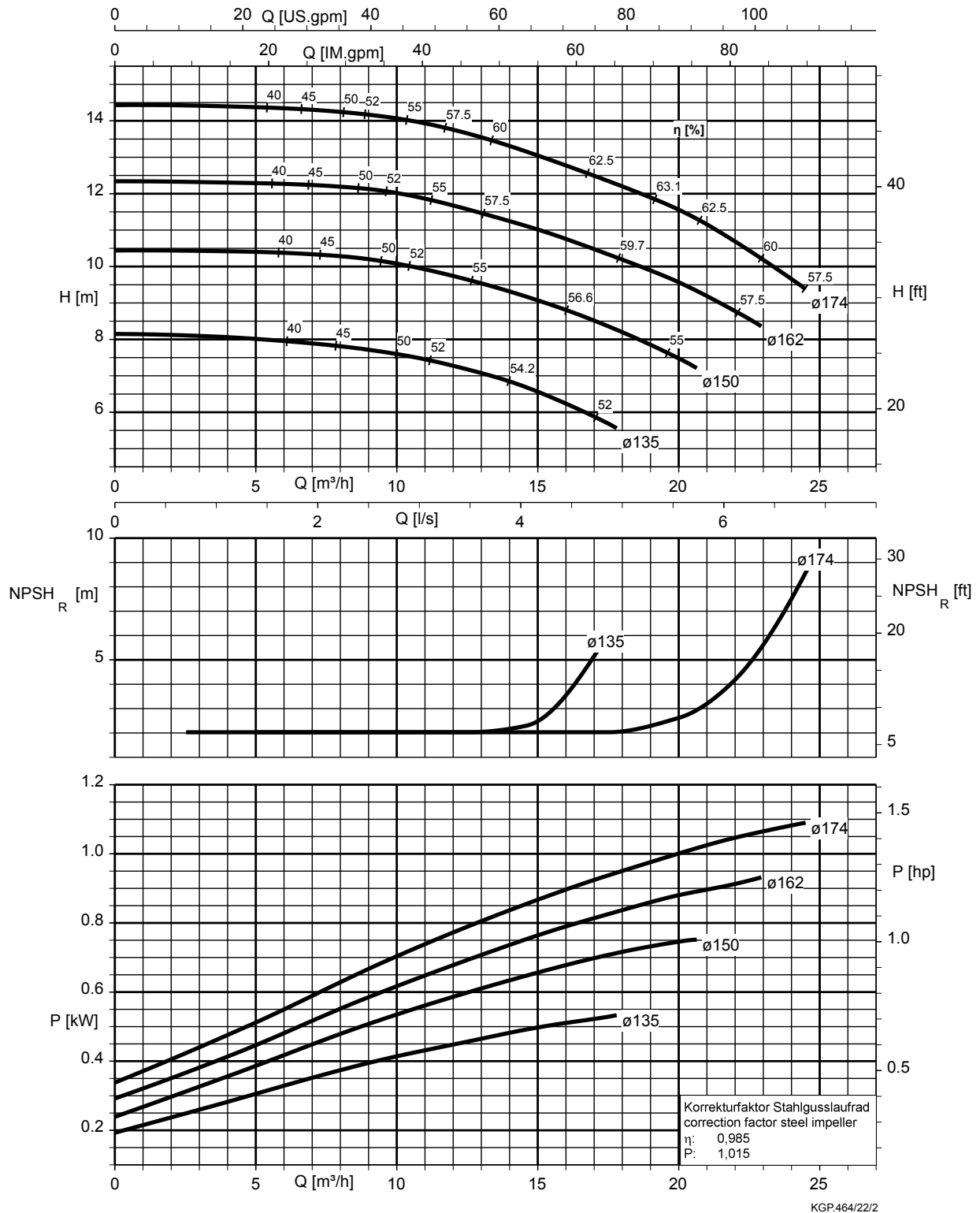
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HPK-L, Magnochem, Magnochem-Bloc, Meganorm



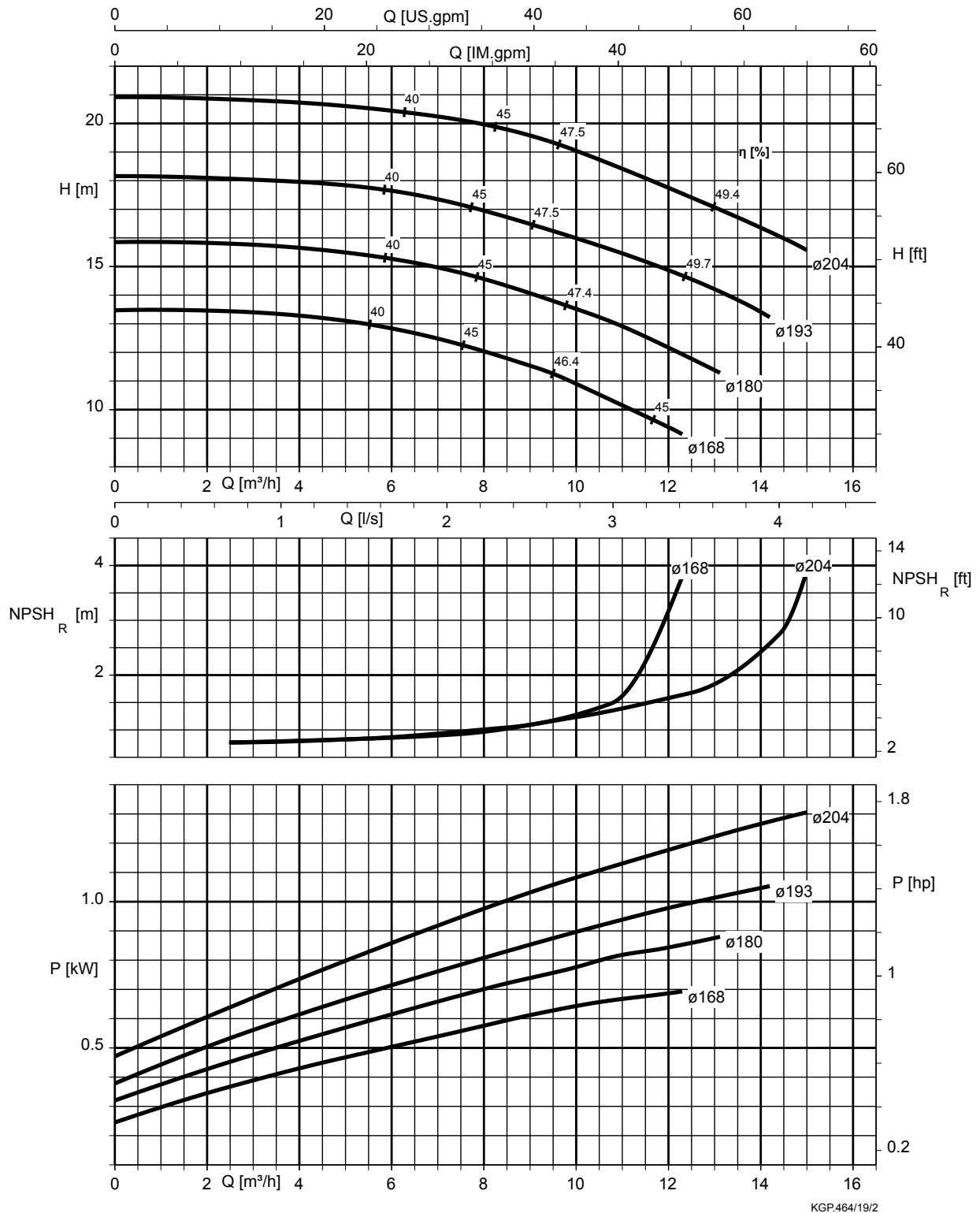
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HPK-L, Magnochem, Magnochem-Bloc, Meganorm



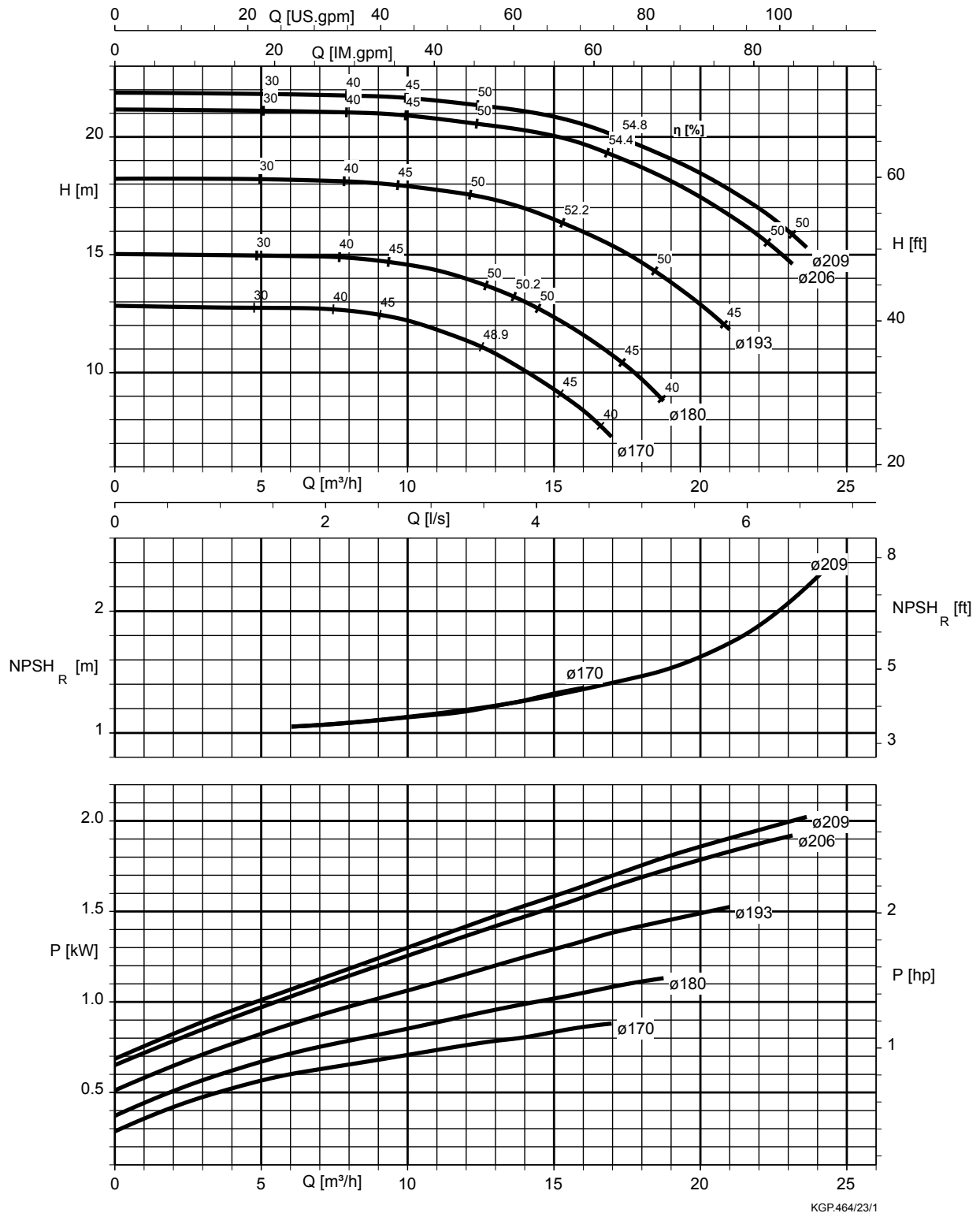
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HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



MegaCPK 050-032-200, n = 1750 rpm

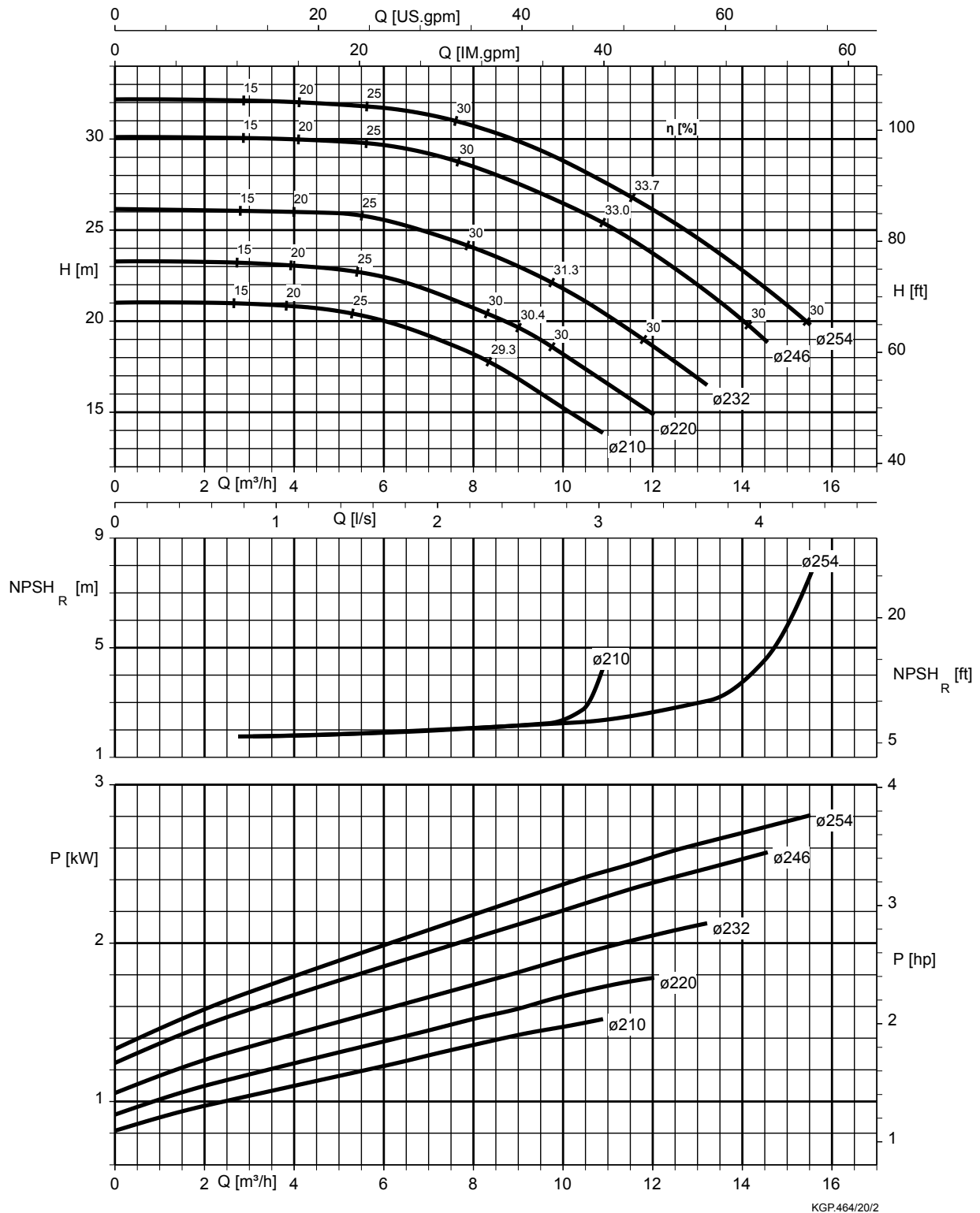
HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



KGP.464/23/1

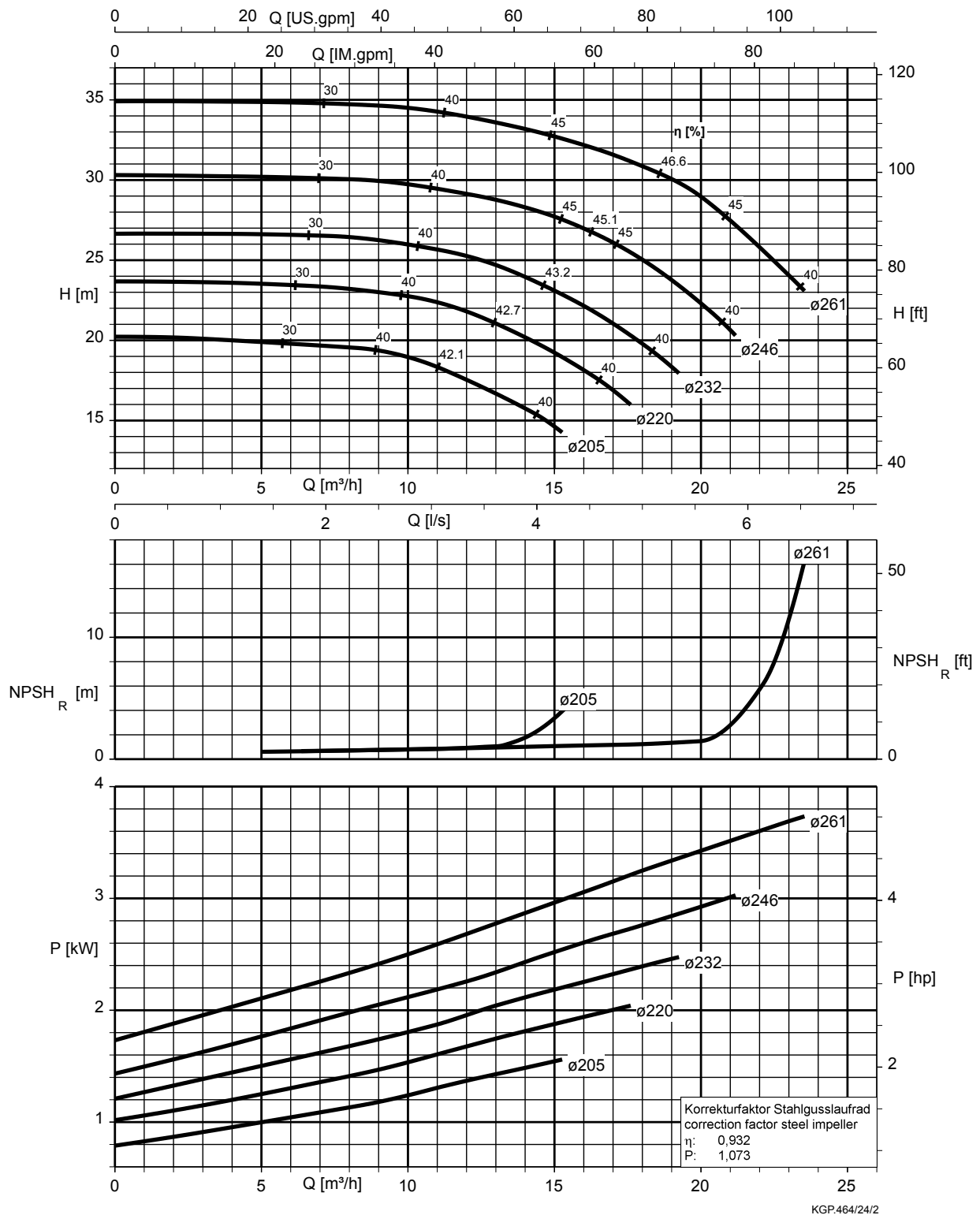
MegaCPK 050-032-250.1, n = 1750 rpm

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



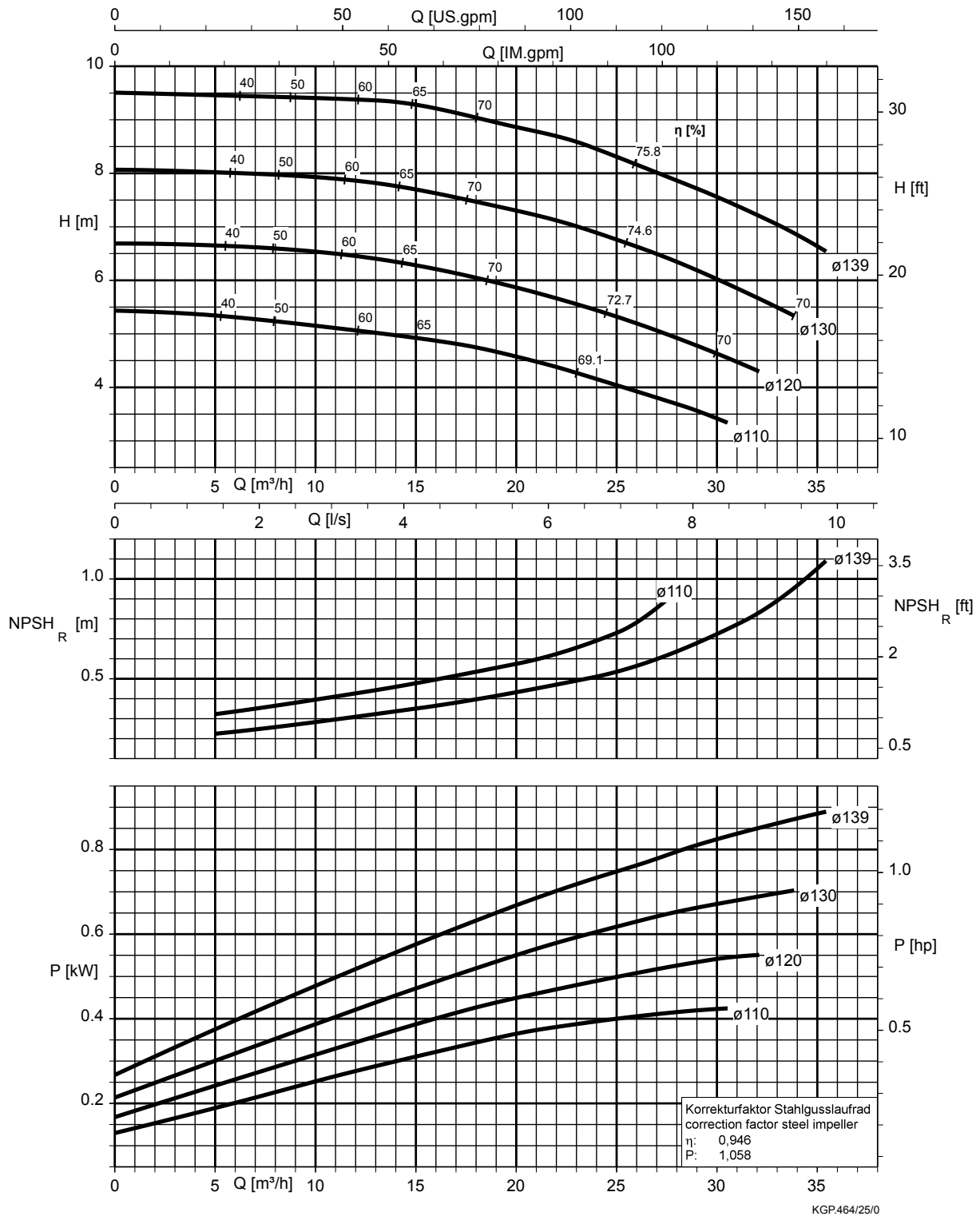
MegaCPK 050-032-250, n = 1750 rpm

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



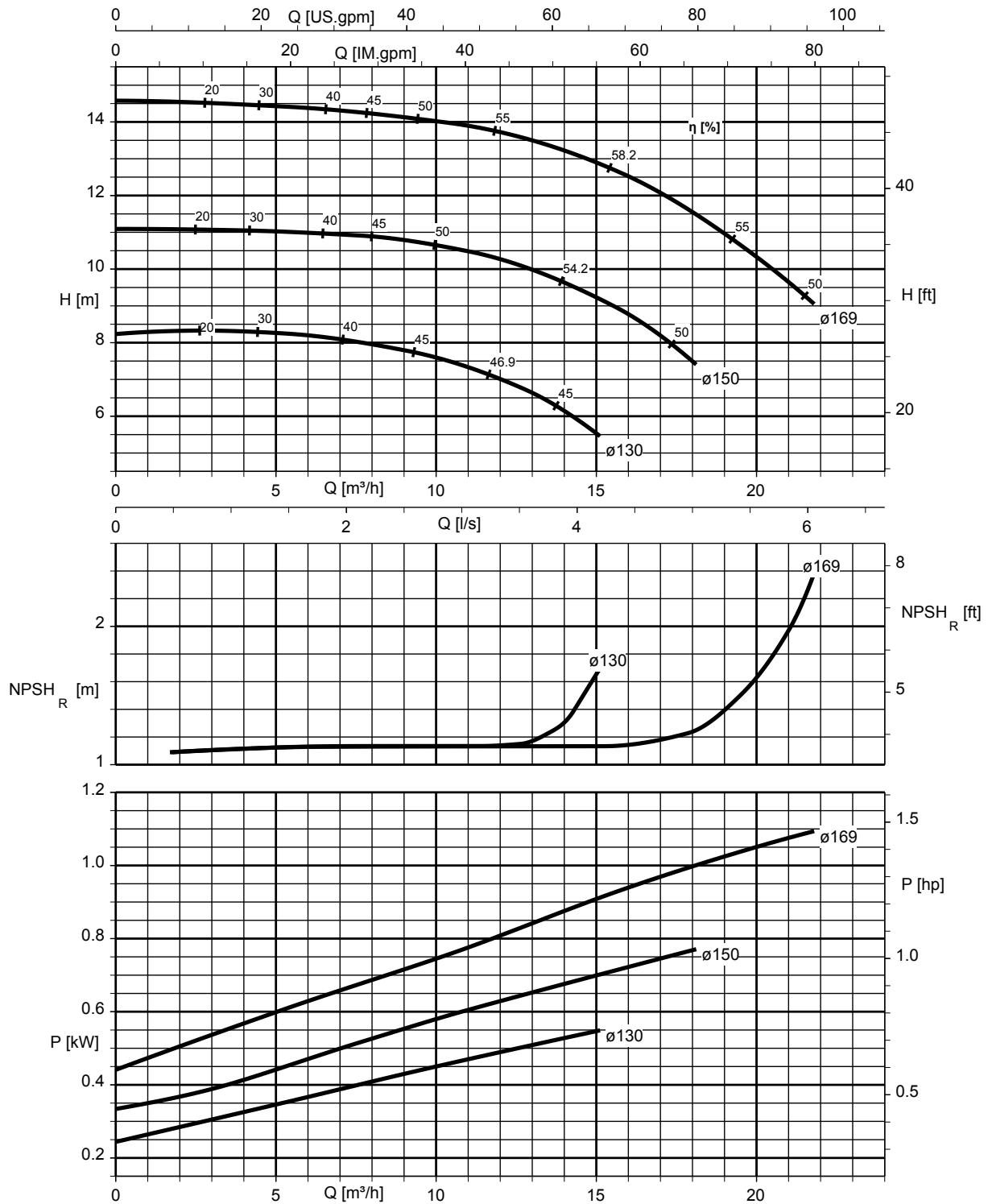
MegaCPK 065-040-125, n = 1750 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



MegaCPK 065-040-160.1, n = 1750 rpm

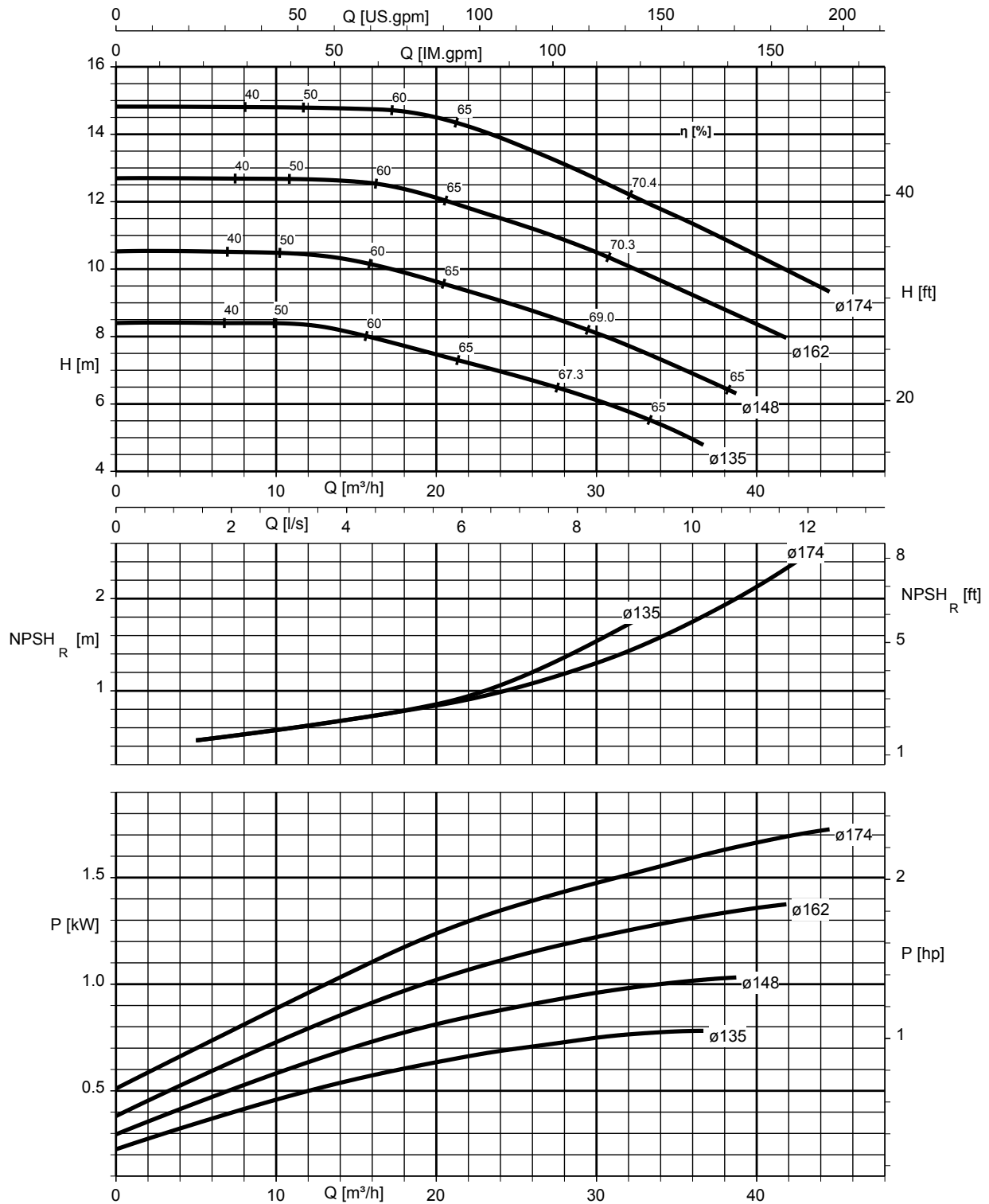
HPK-L, Magnochem, Magnochem-Bloc



KGP464/11/0

MegaCPK 065-040-160, n = 1750 rpm

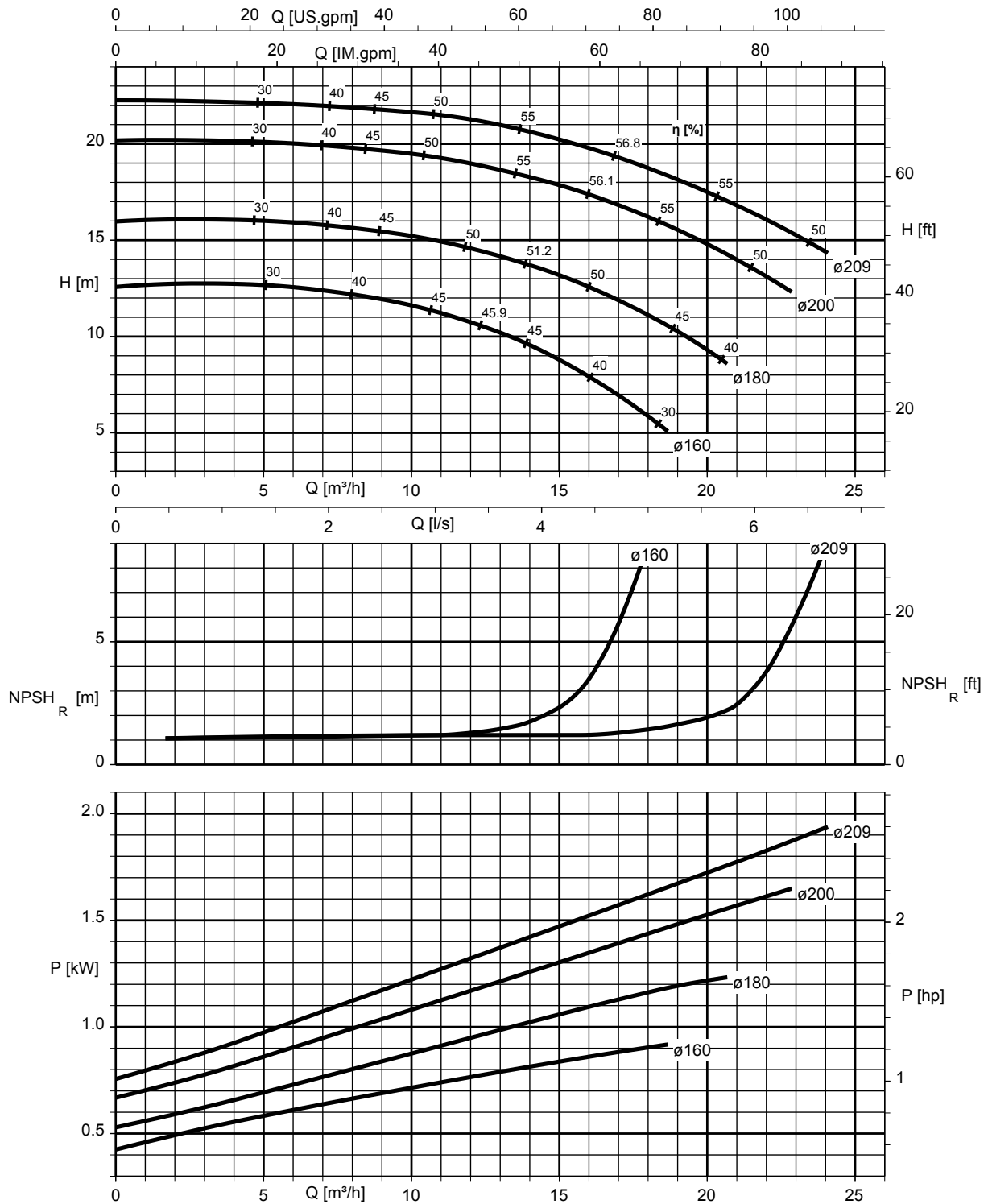
HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



KGP.464/26/1

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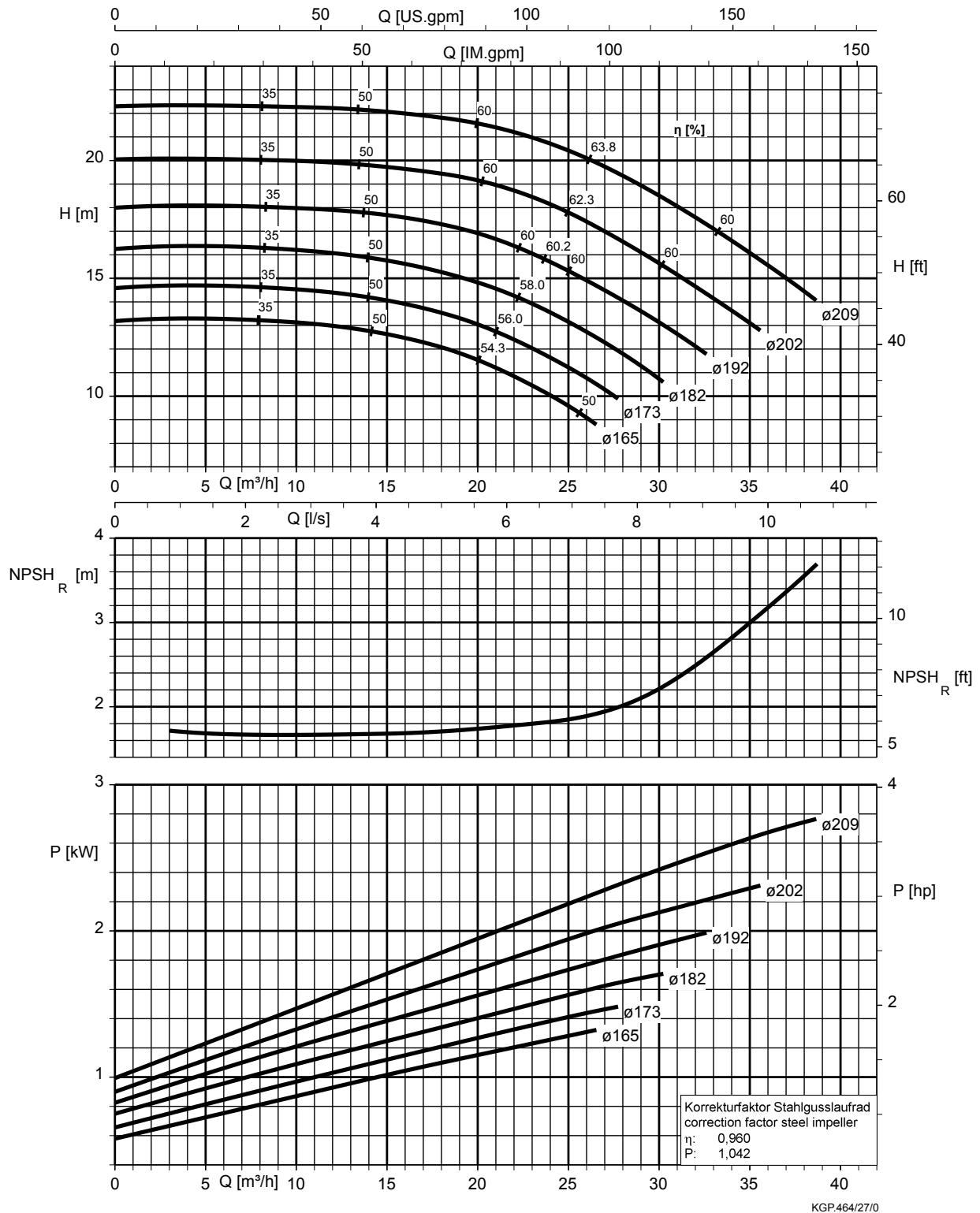
Magnochem, Magnochem-Bloc



KGP.464/05/0

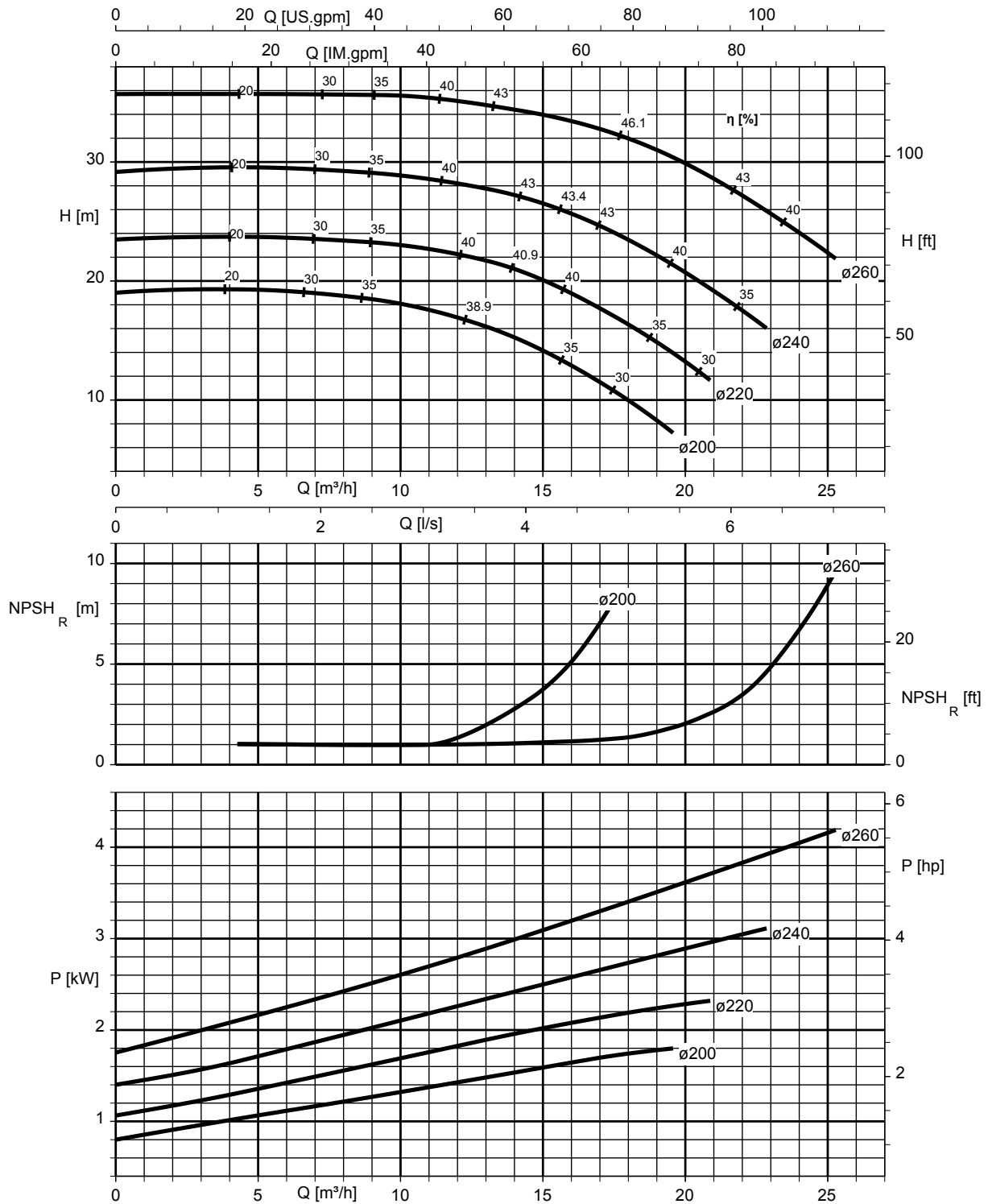
MegaCPK 065-040-200, n = 1750 rpm

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



MegaCPK 065-040-250.1, n = 1750 rpm

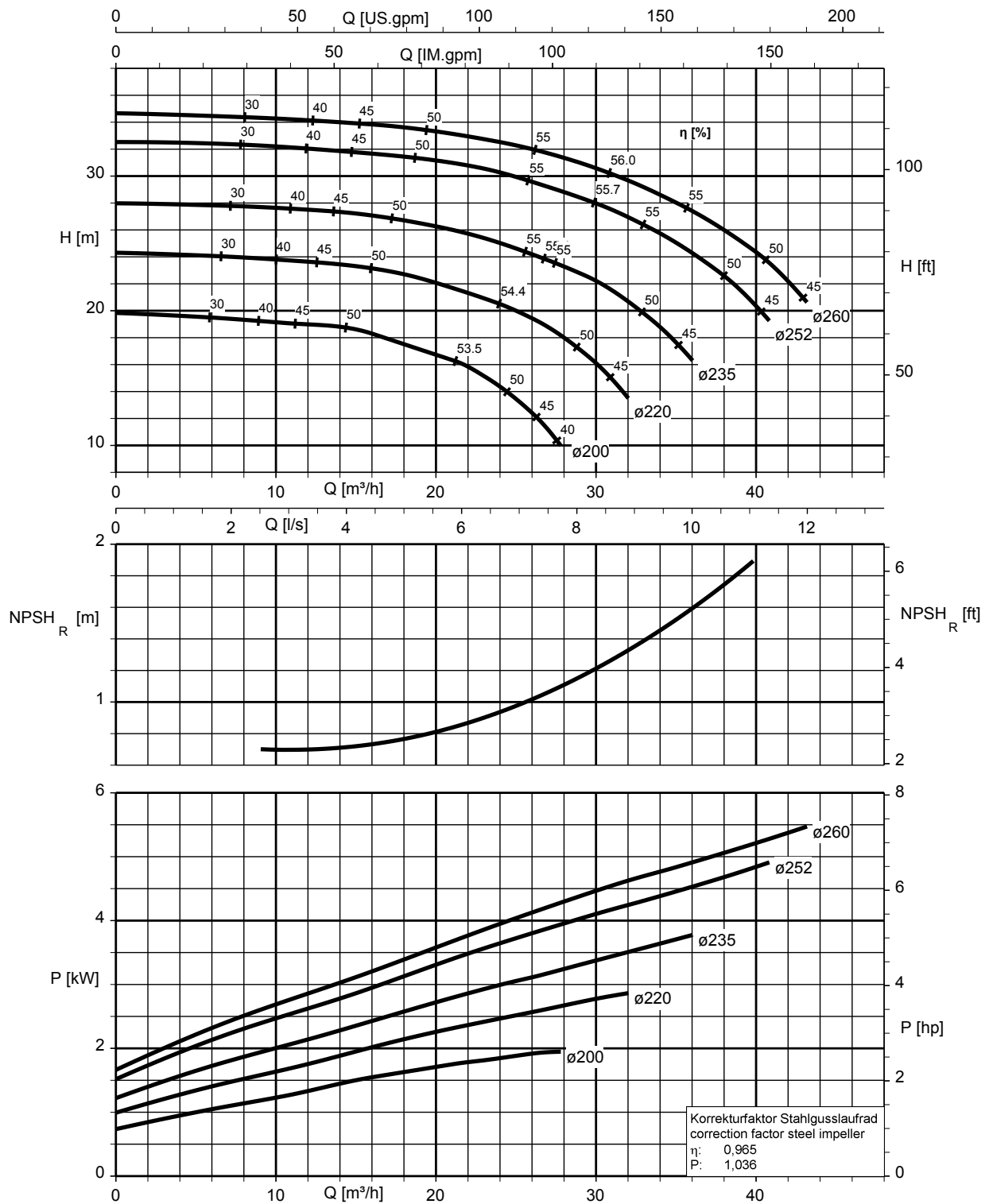
HPK-L, Magnochem, Magnochem-Bloc



KGP.464/12/0

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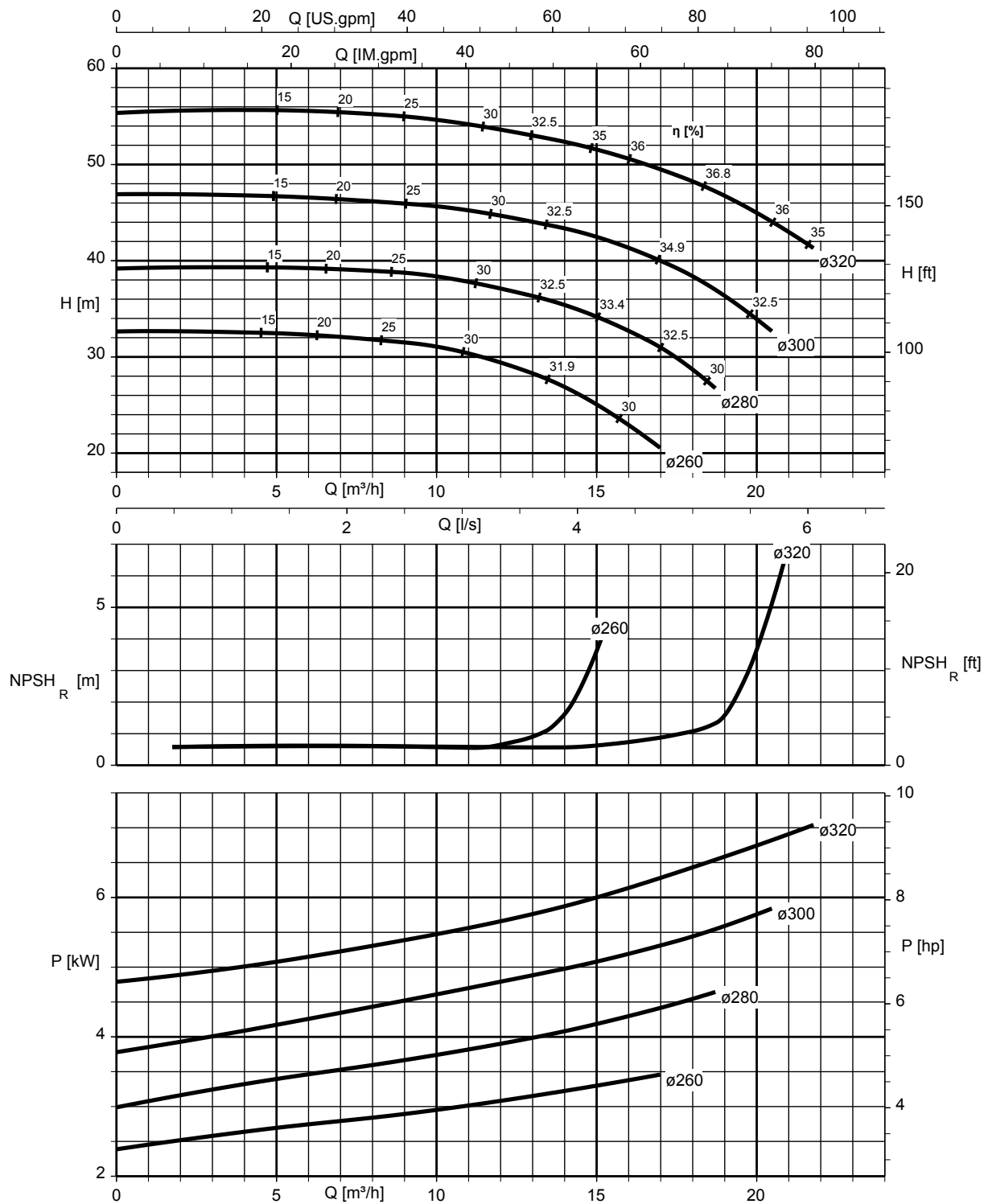
HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



KGP.464/28/2

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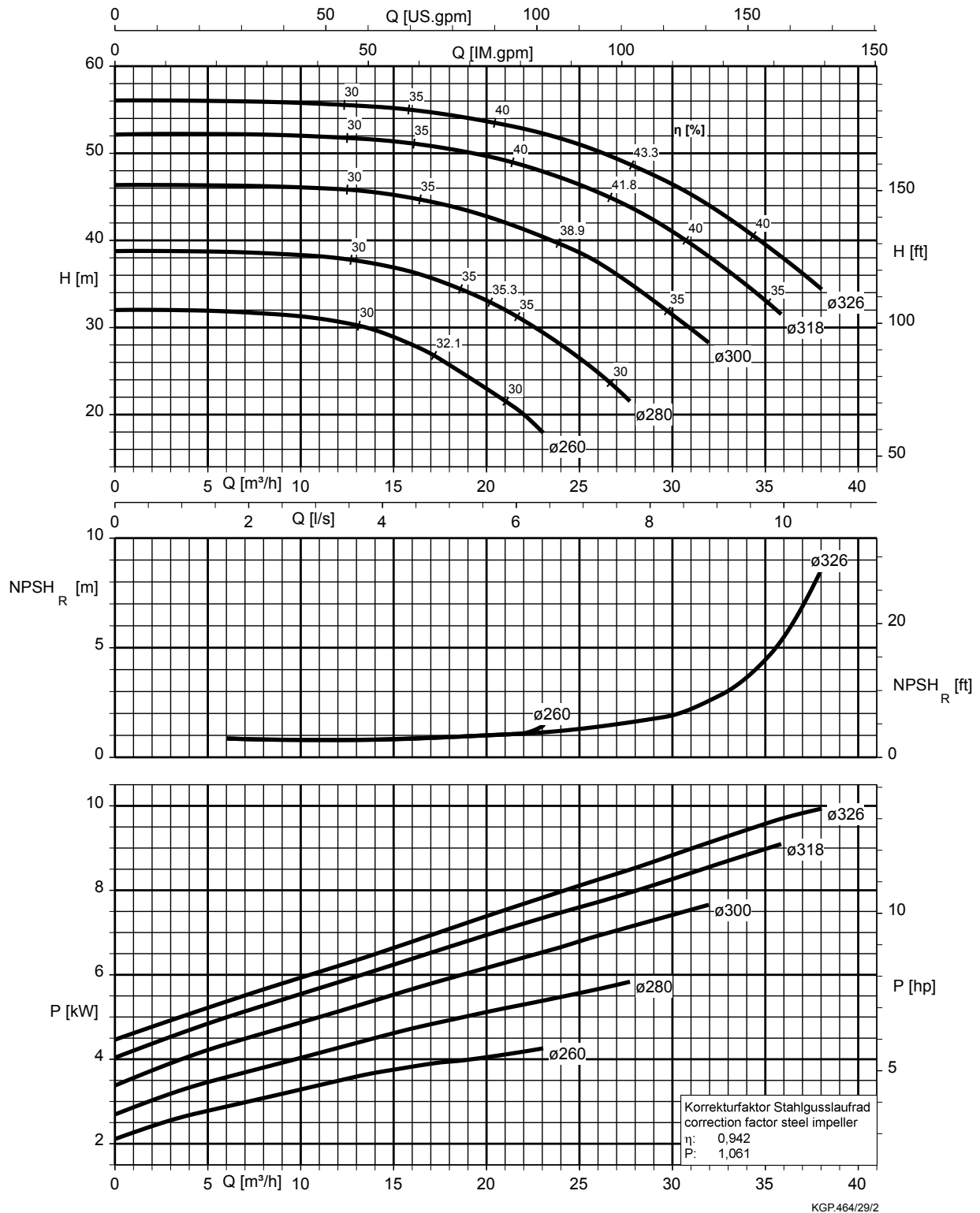
Magnochem, Magnochem-Bloc



KGP.464/06/0

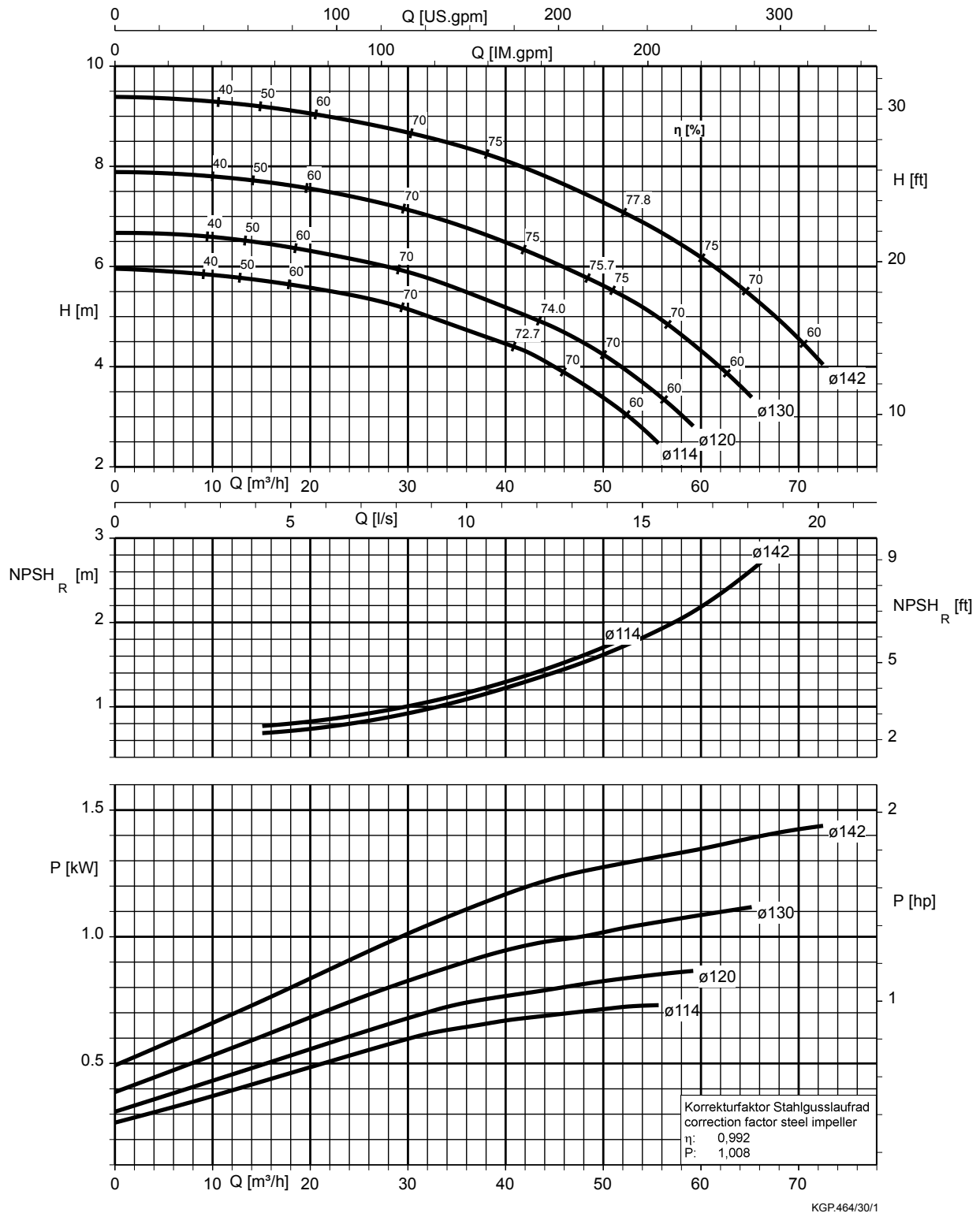
MegaCPK 065-040-315, n = 1750 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



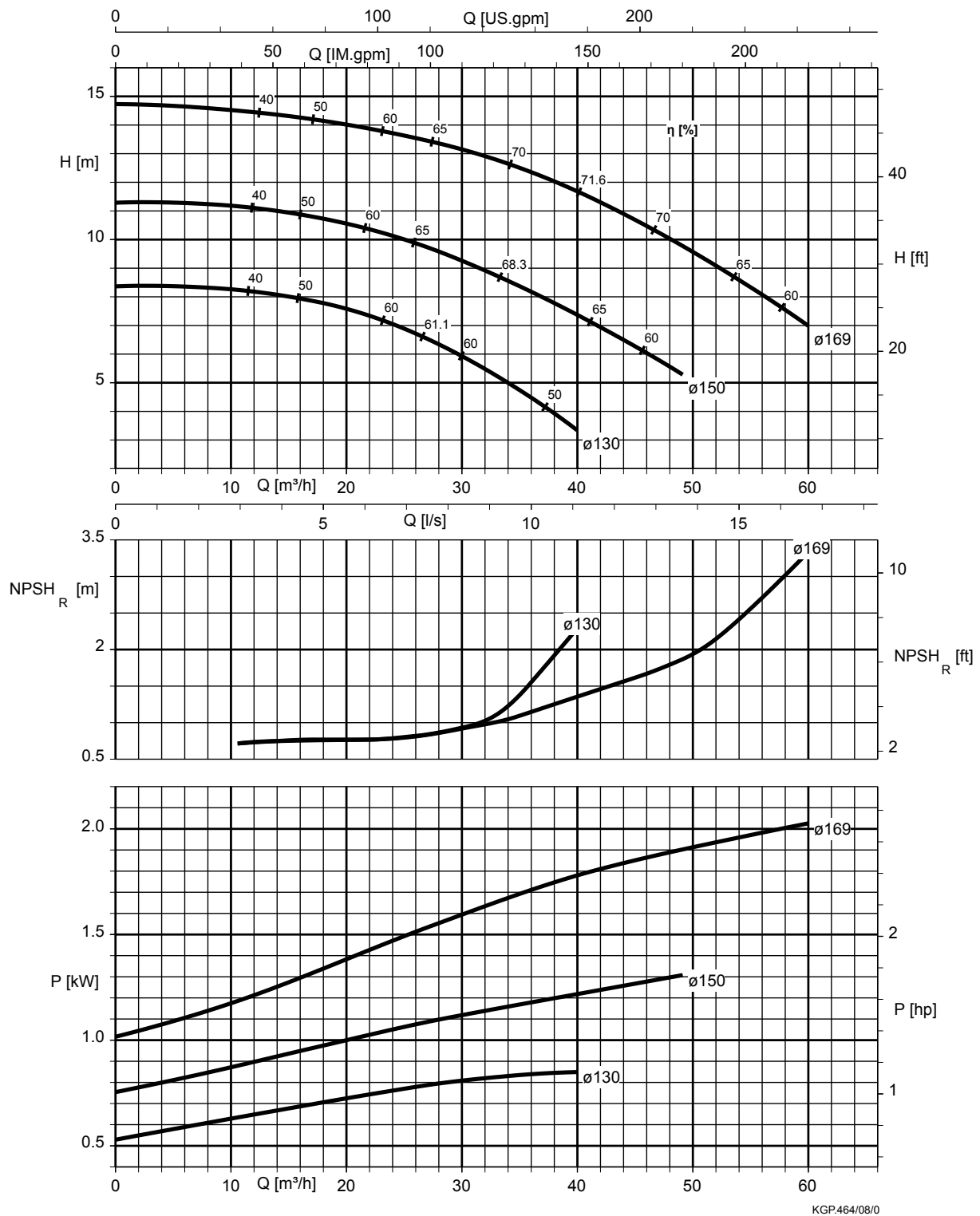
MegaCPK 080-050-125, n = 1750 rpm

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



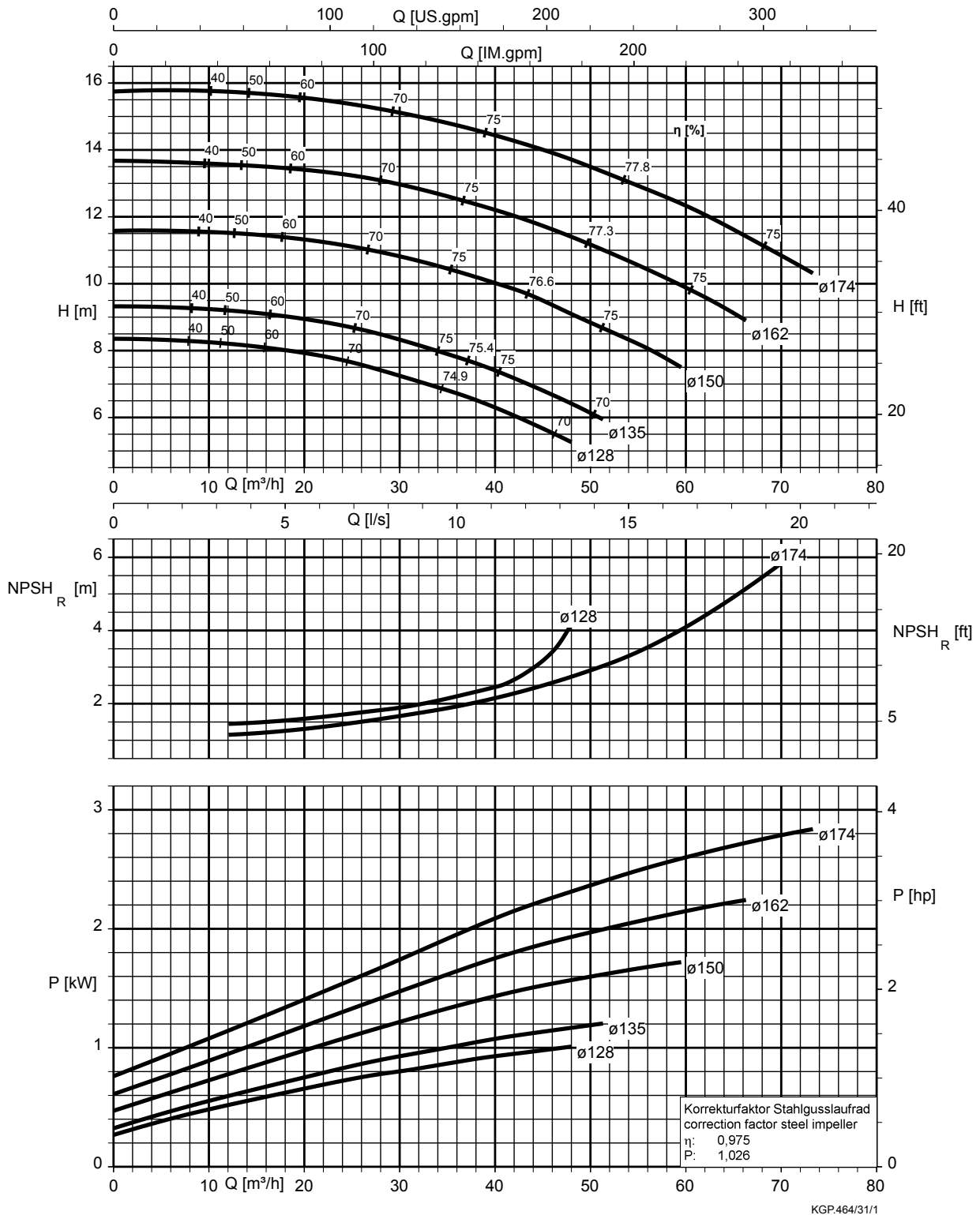
MegaCPK 080-050-160.1, n = 1750 rpm

Magnochem, Magnochem-Bloc



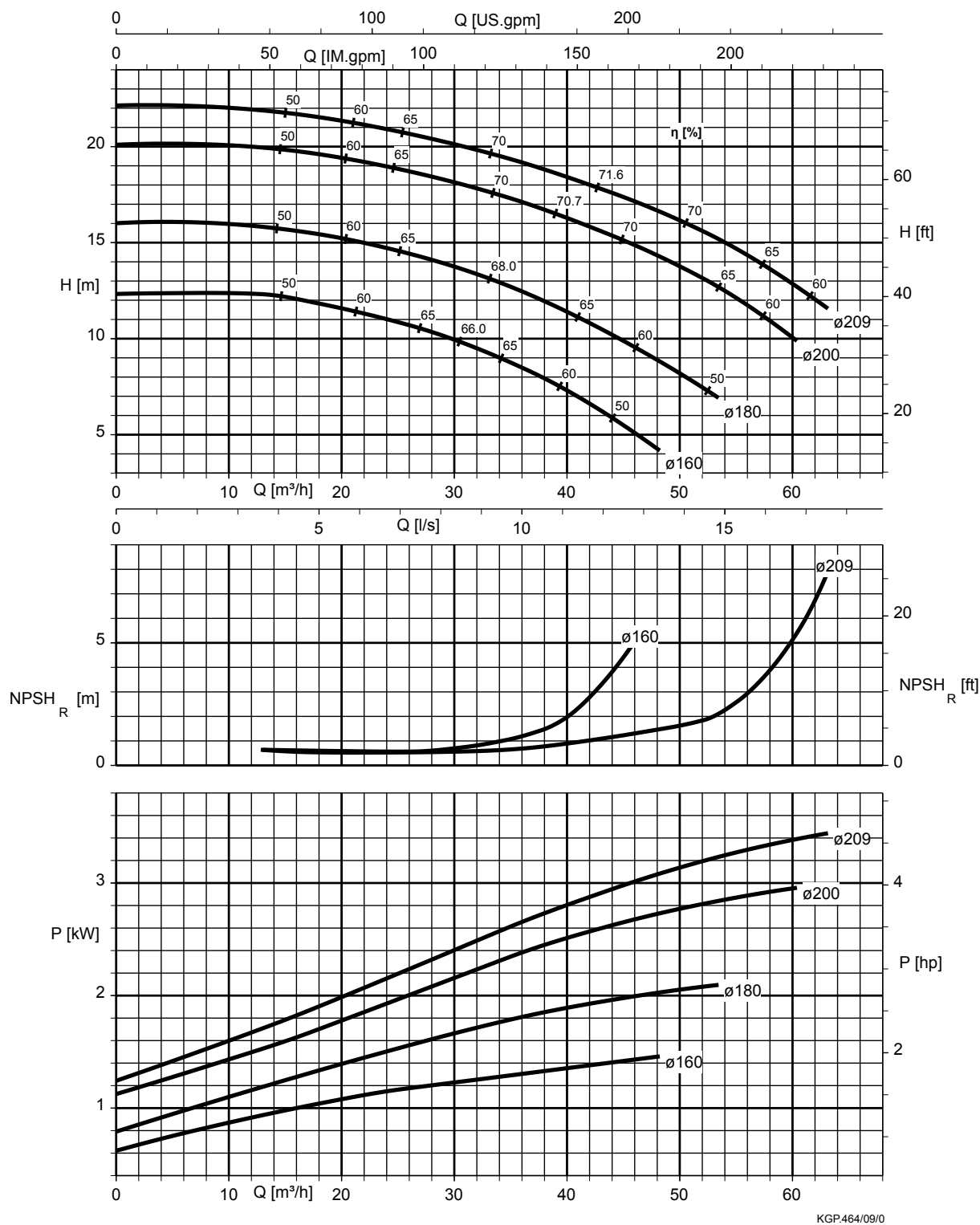
MegaCPK 080-050-160, n = 1750 rpm

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



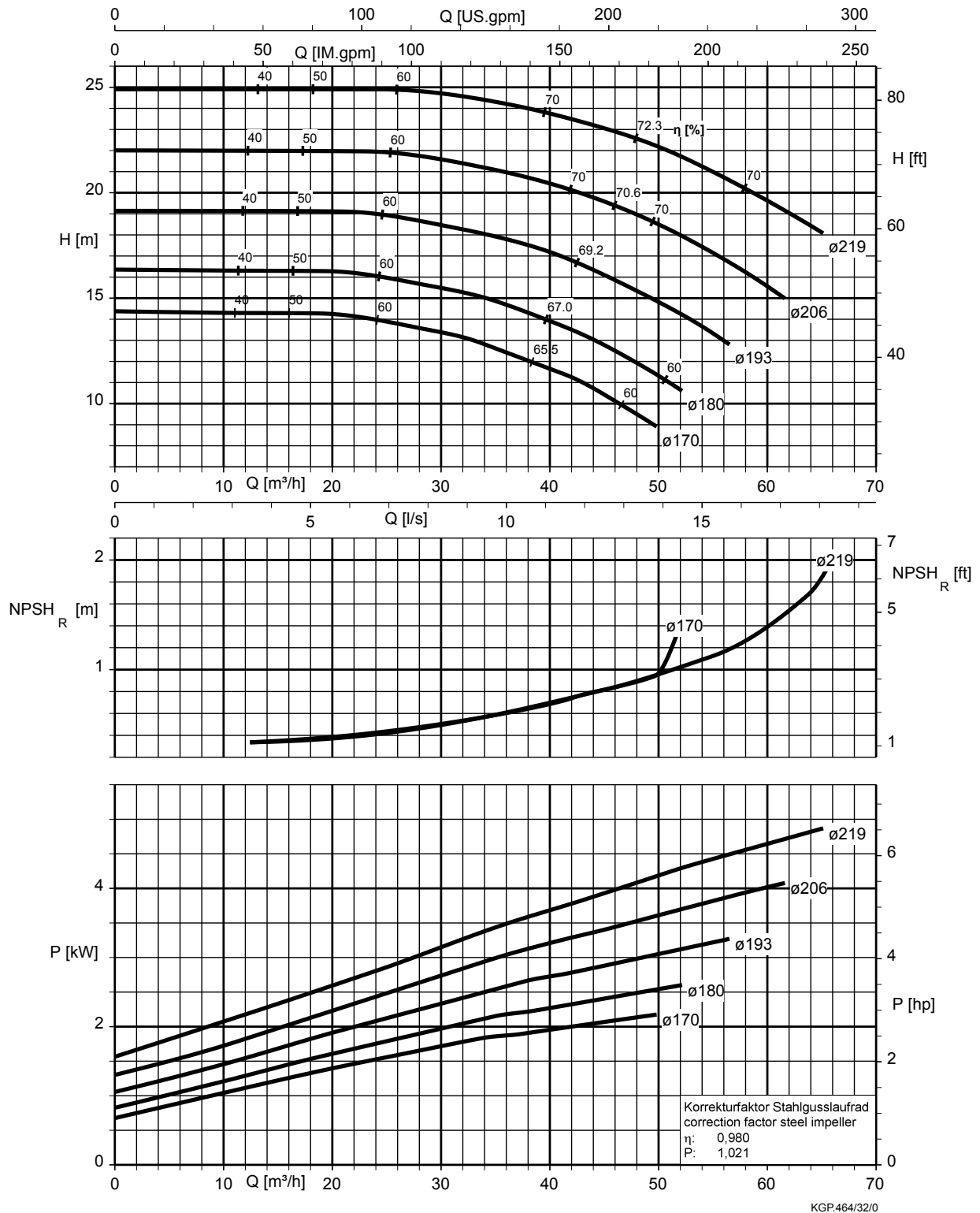
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Magnochem, Magnochem-Bloc



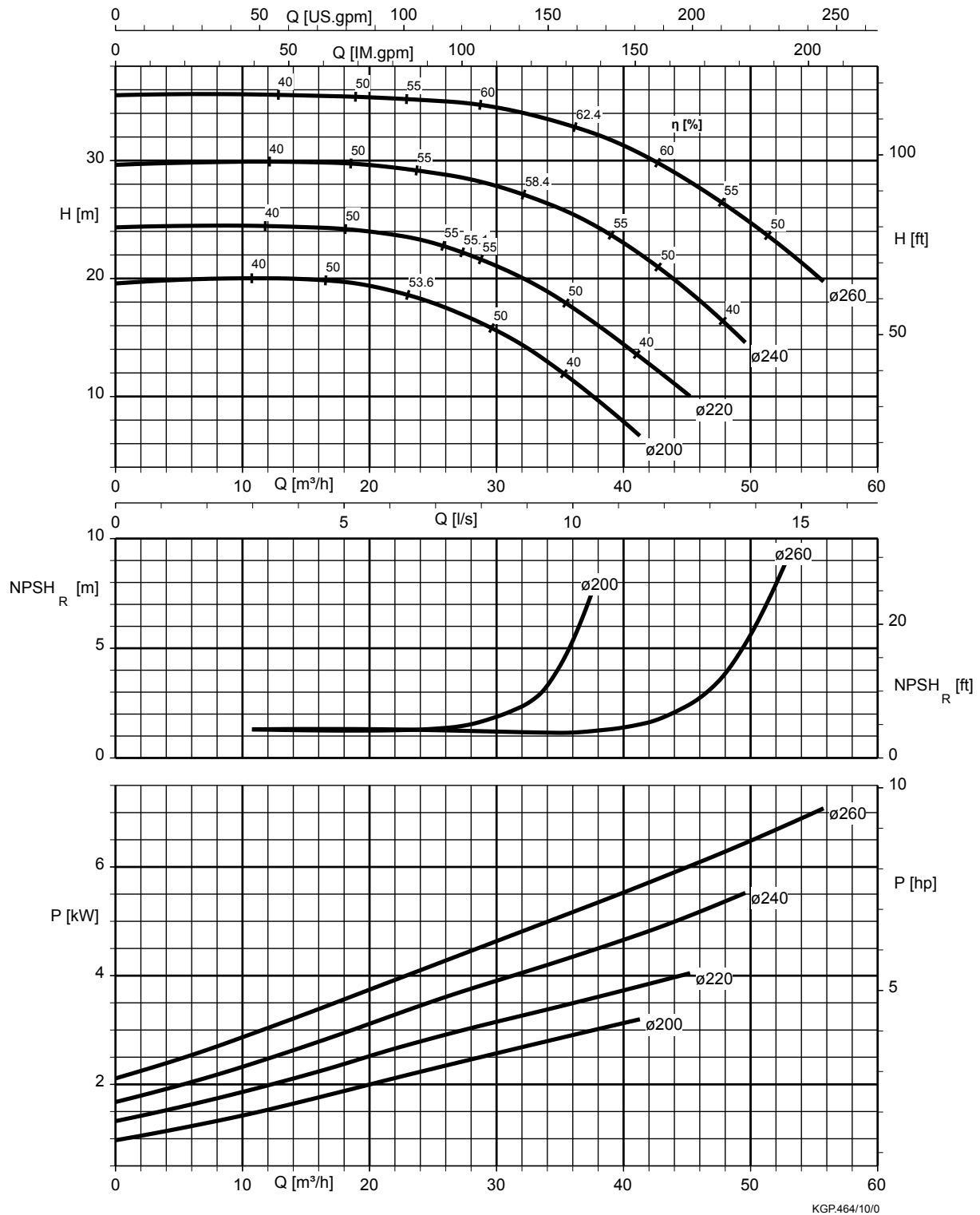
MegaCPK 080-050-200, n = 1750 rpm

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



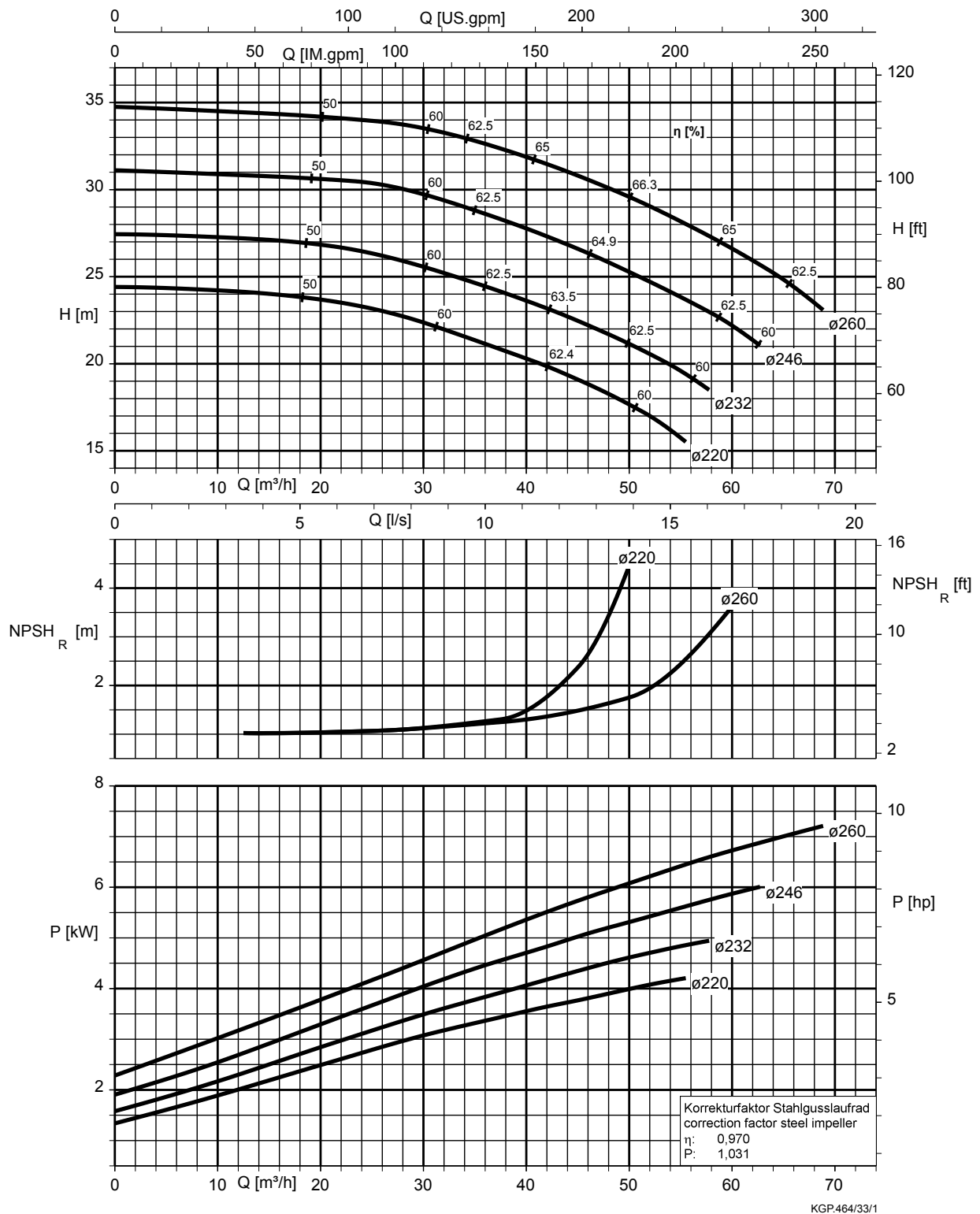
MegaCPK 080-050-250.1, n = 1750 rpm

Magnochem, Magnochem-Bloc



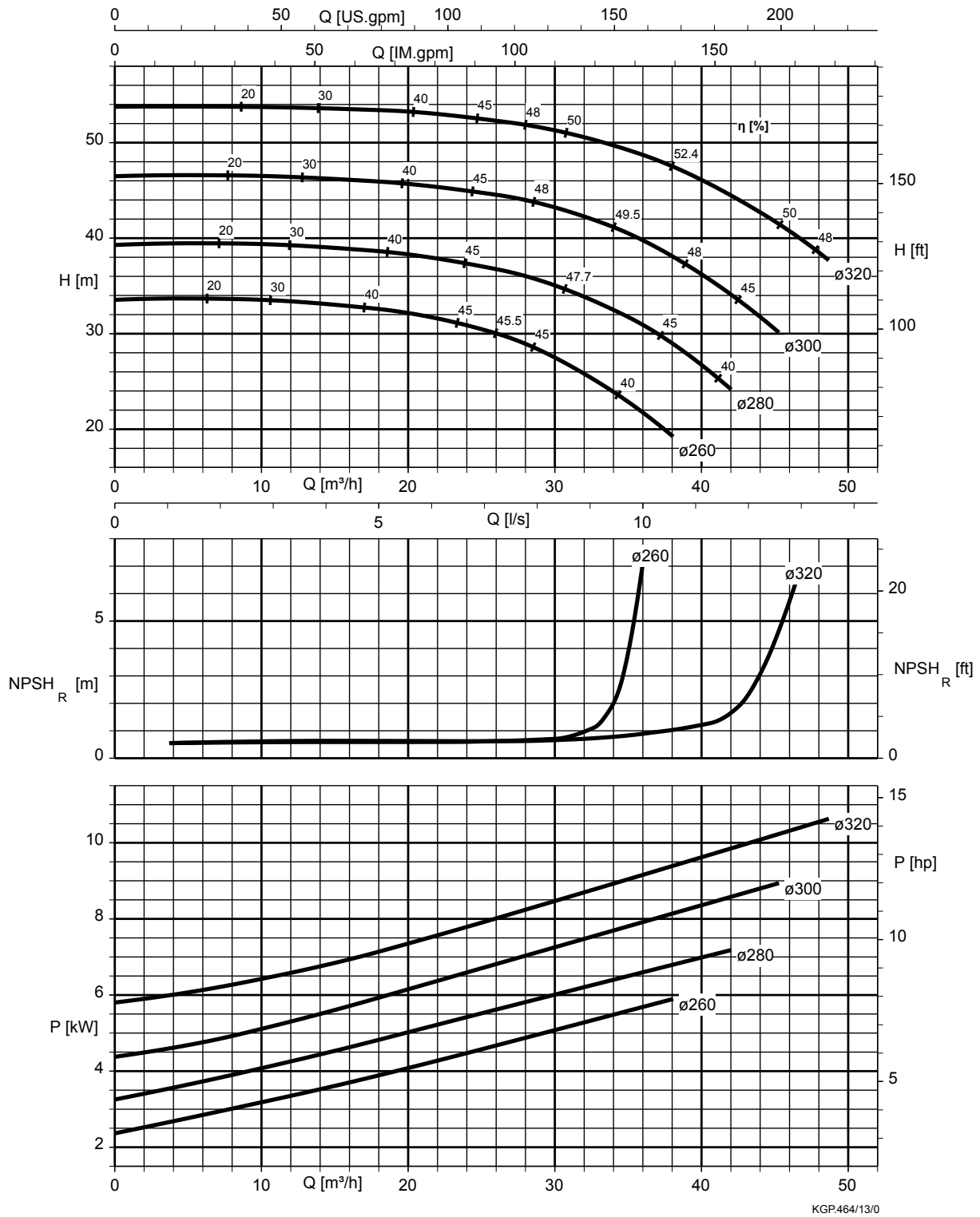
MegaCPK 080-050-250, n = 1750 rpm

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



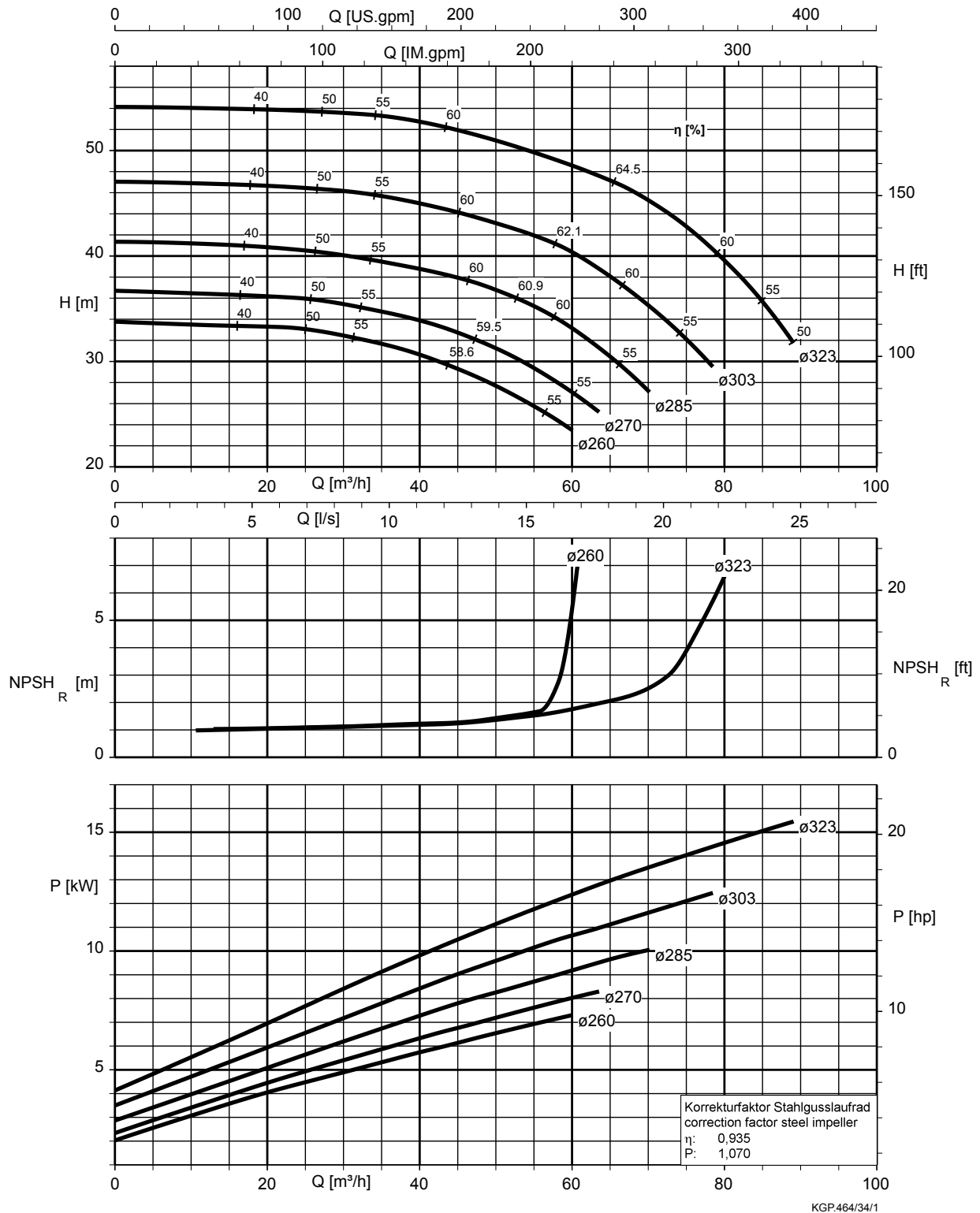
MegaCPK 080-050-315.1, n = 1750 rpm

HPK-L, Magnochem, Magnochem-Bloc



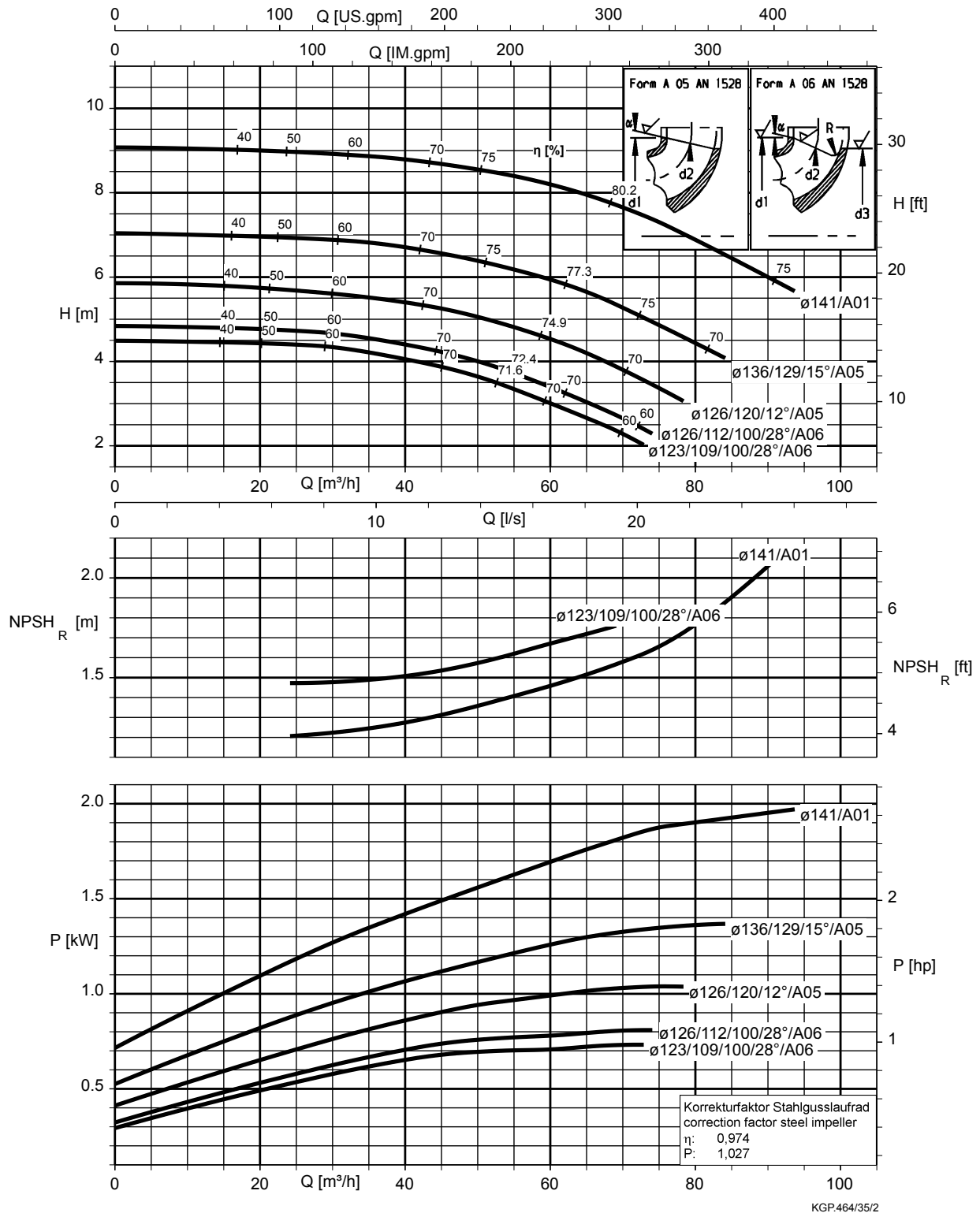
MegaCPK 080-050-315, n = 1750 rpm

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



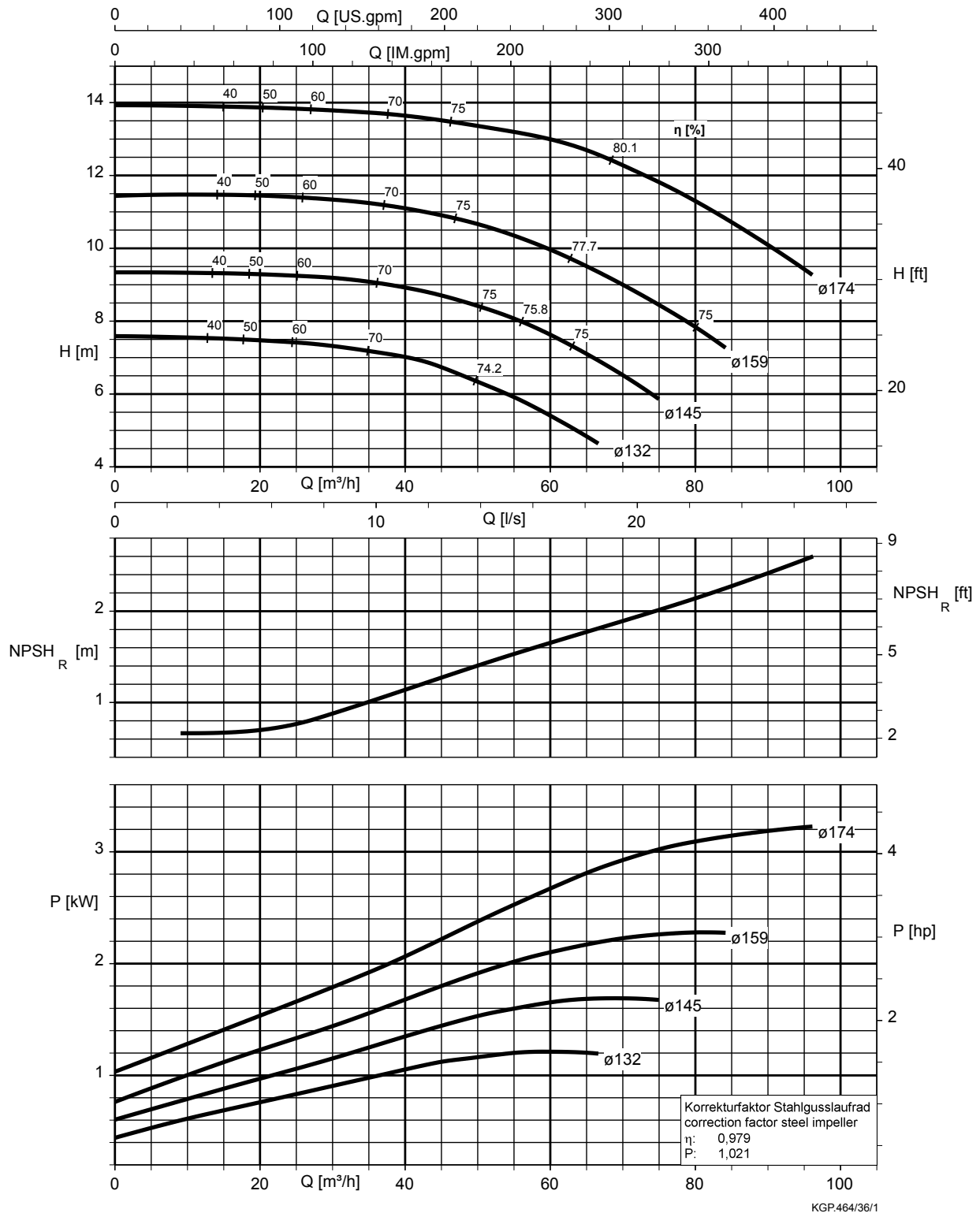
MegaCPK 100-065-125, n = 1750 rpm

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



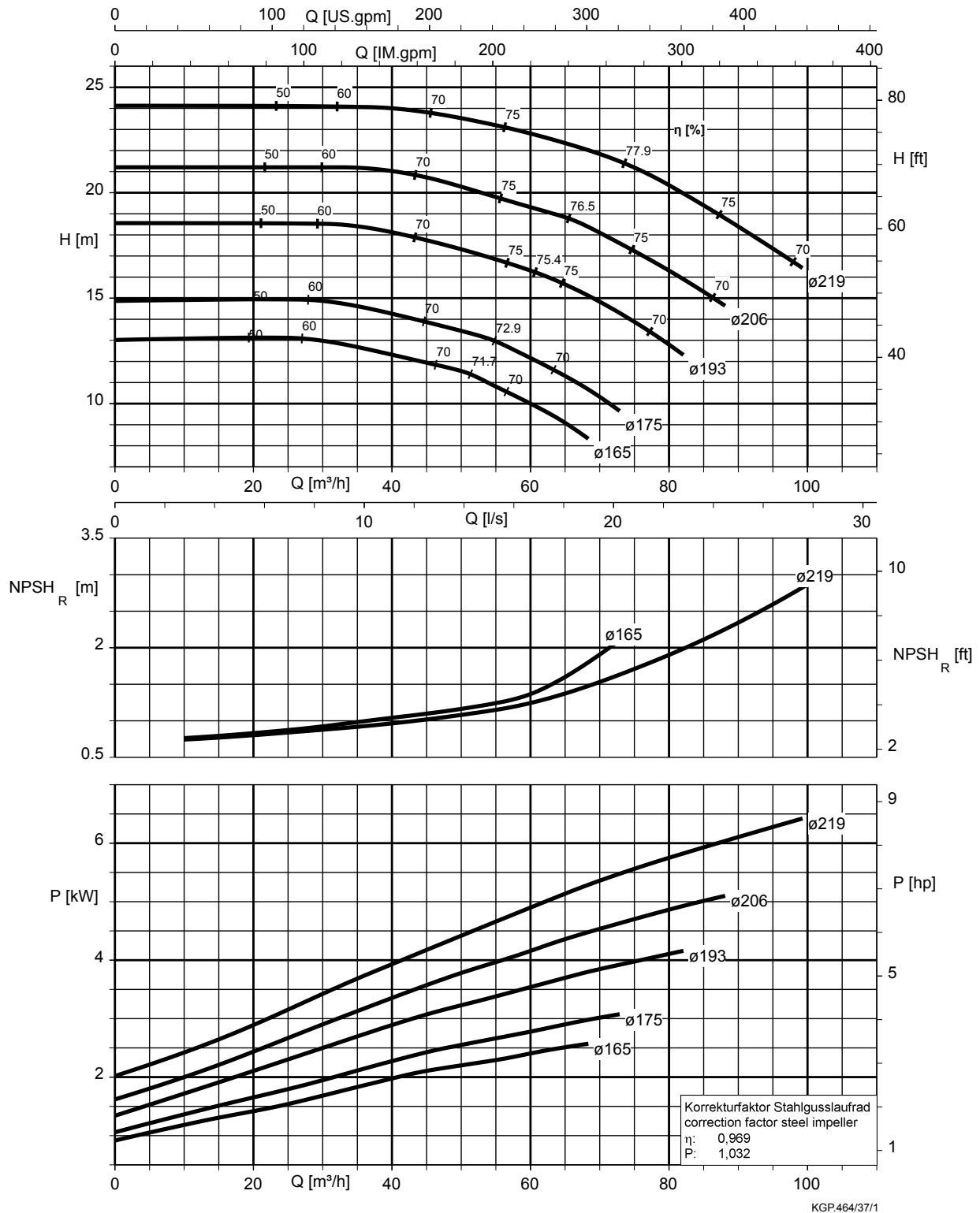
MegaCPK 100-065-160, n = 1750 rpm

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



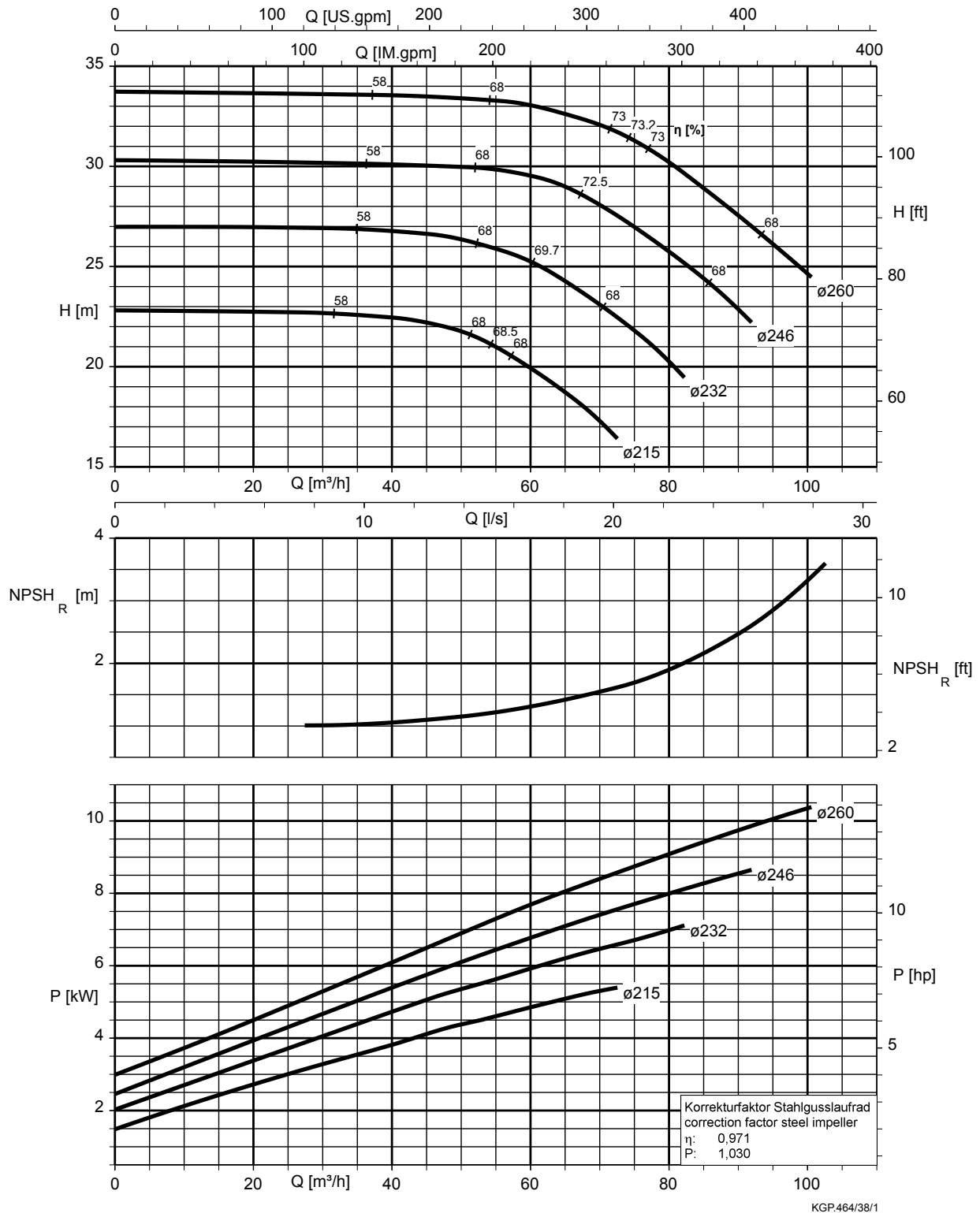
MegaCPK 100-065-200, n = 1750 rpm

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



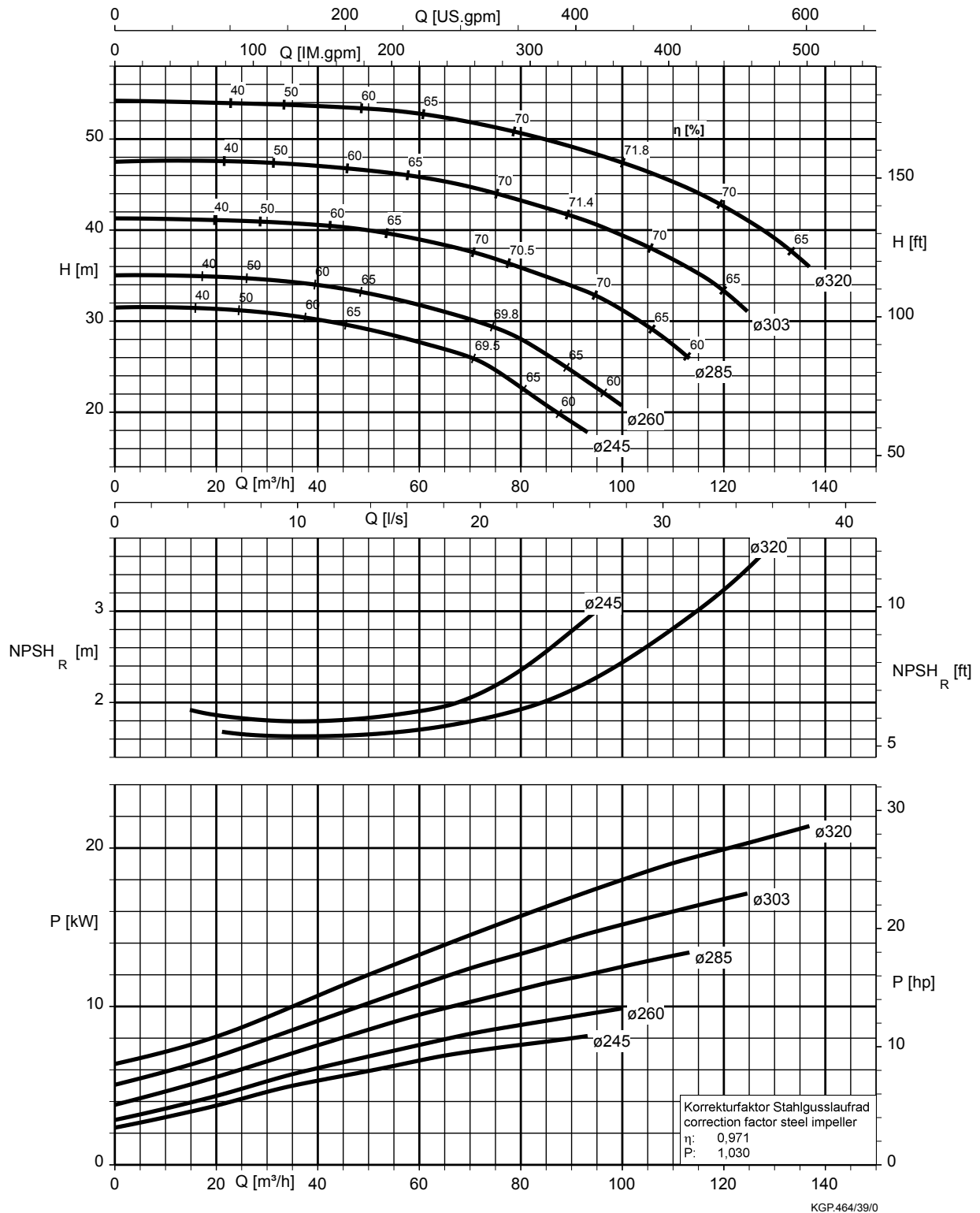
MegaCPK 100-065-250, n = 1750 rpm

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



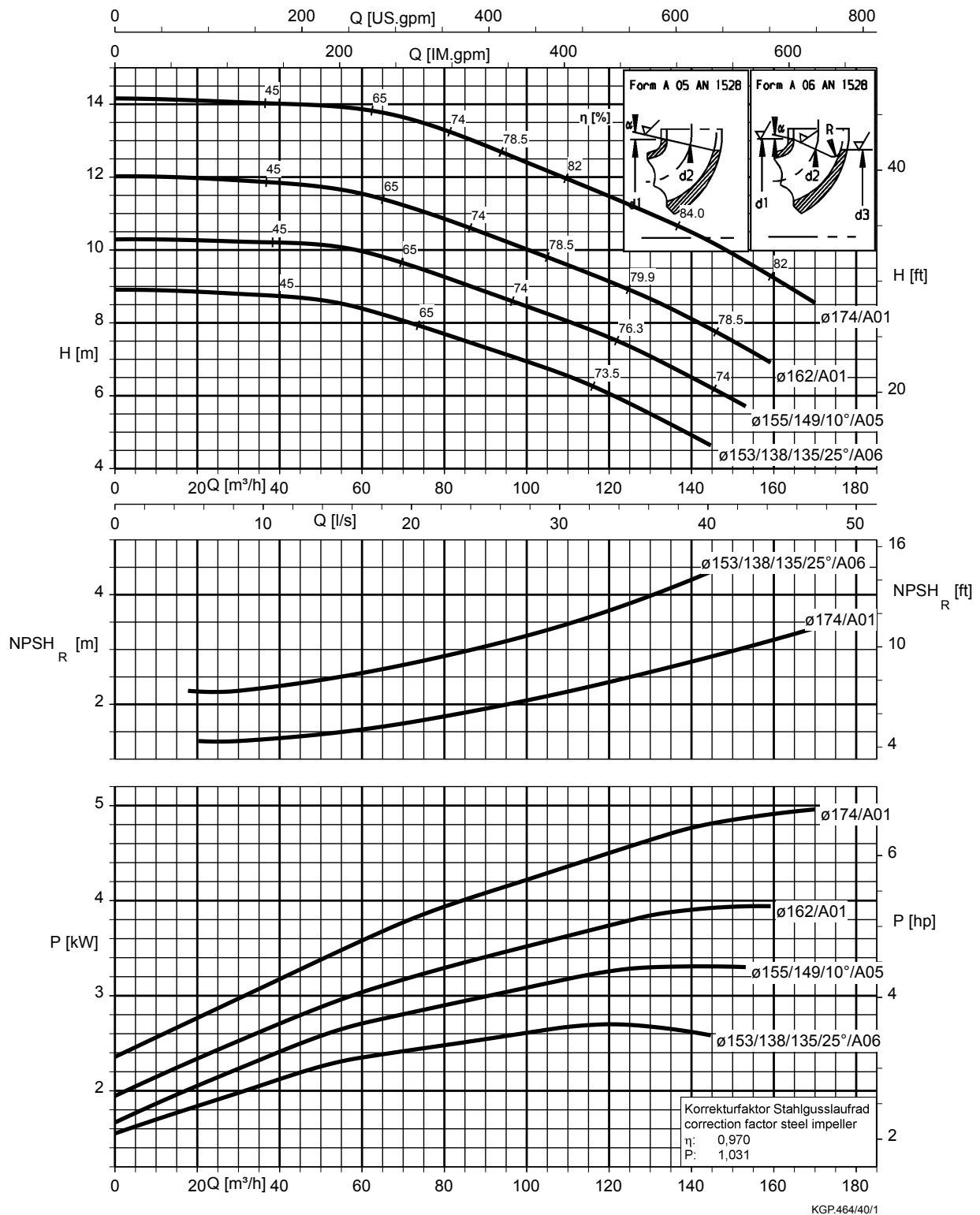
MegaCPK 100-065-315, n = 1750 rpm

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



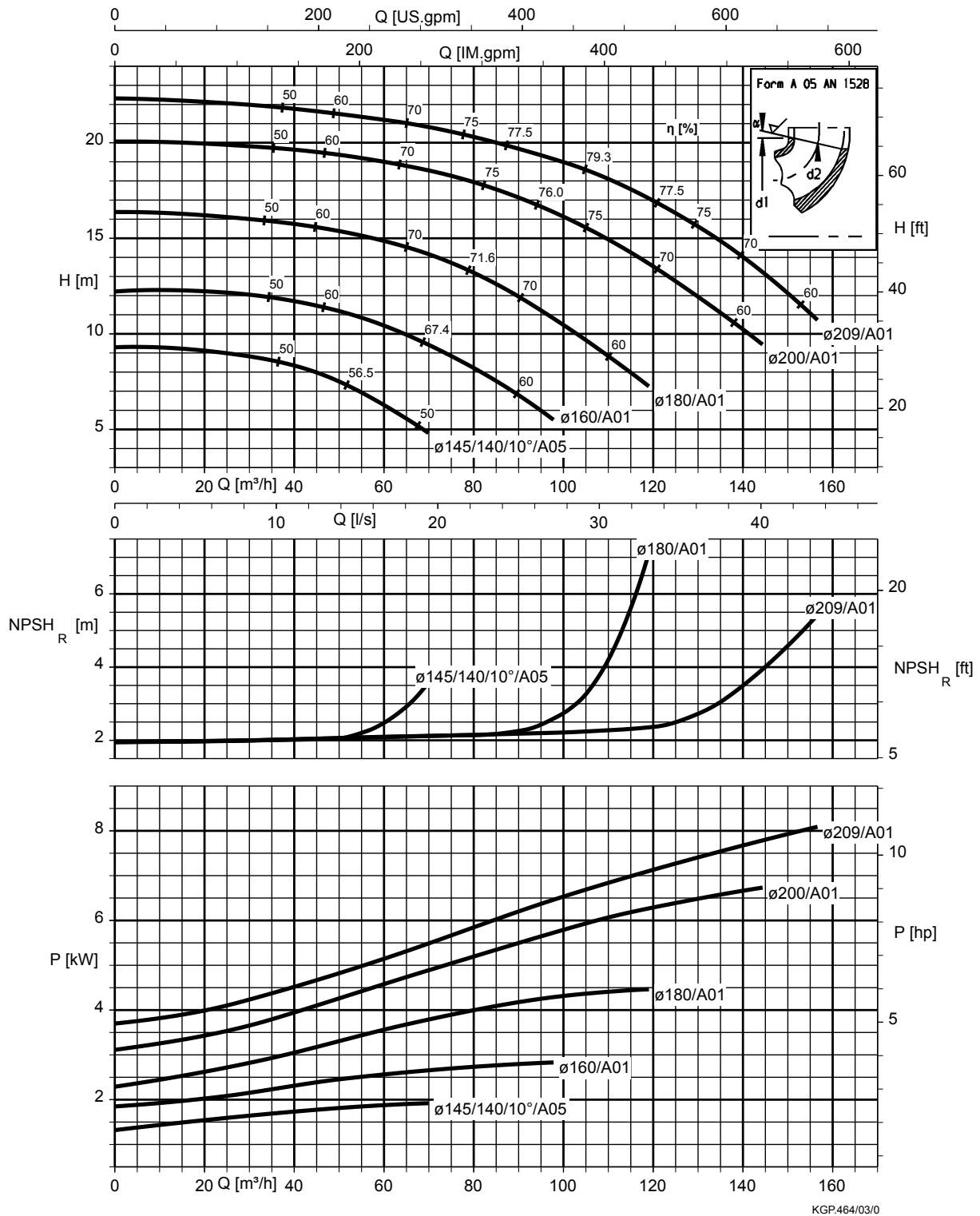
MegaCPK 125-080-160, n = 1750 rpm

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



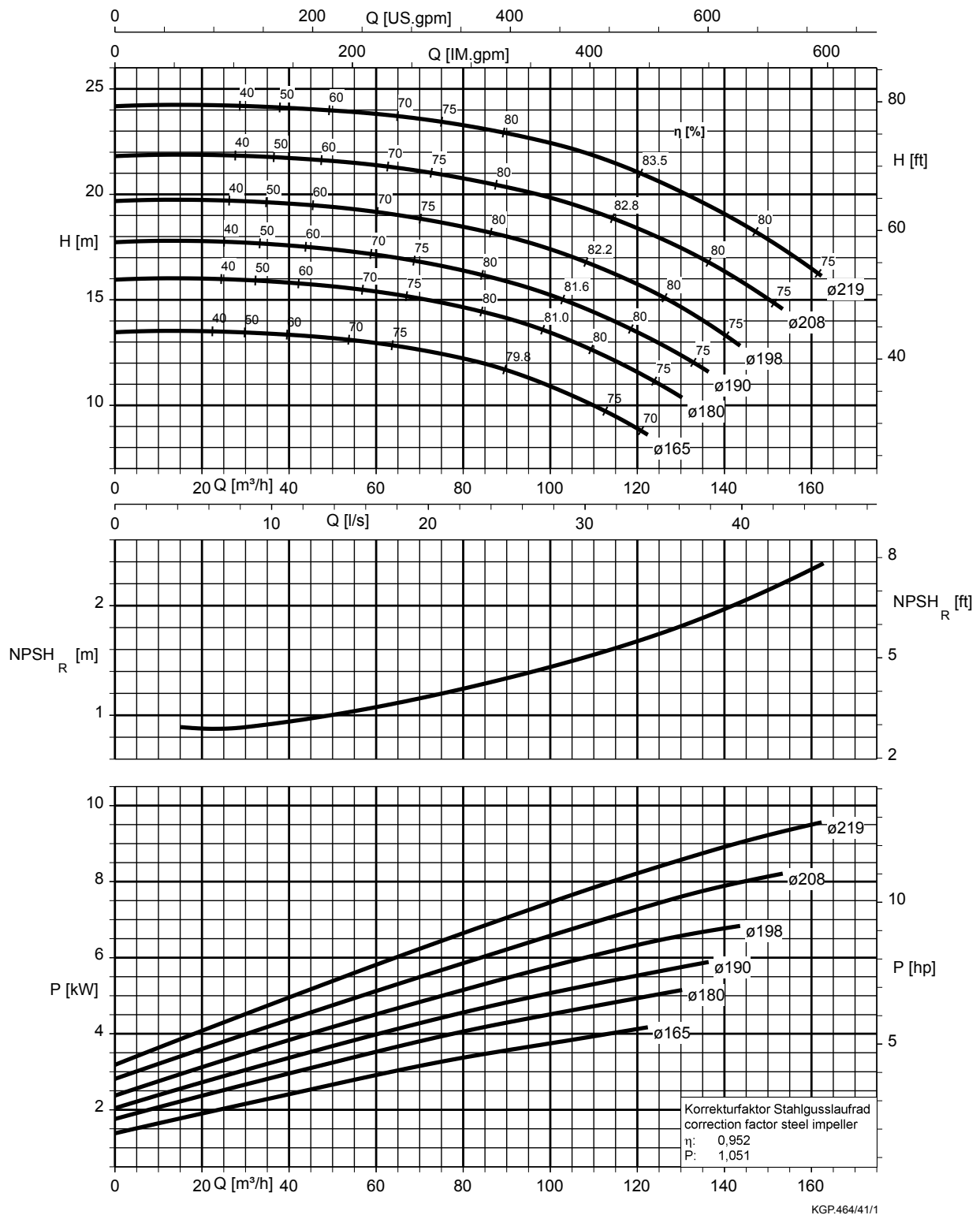
MegaCPK 125-080-200.1, n = 1750 rpm

Magnochem, Magnochem-Bloc



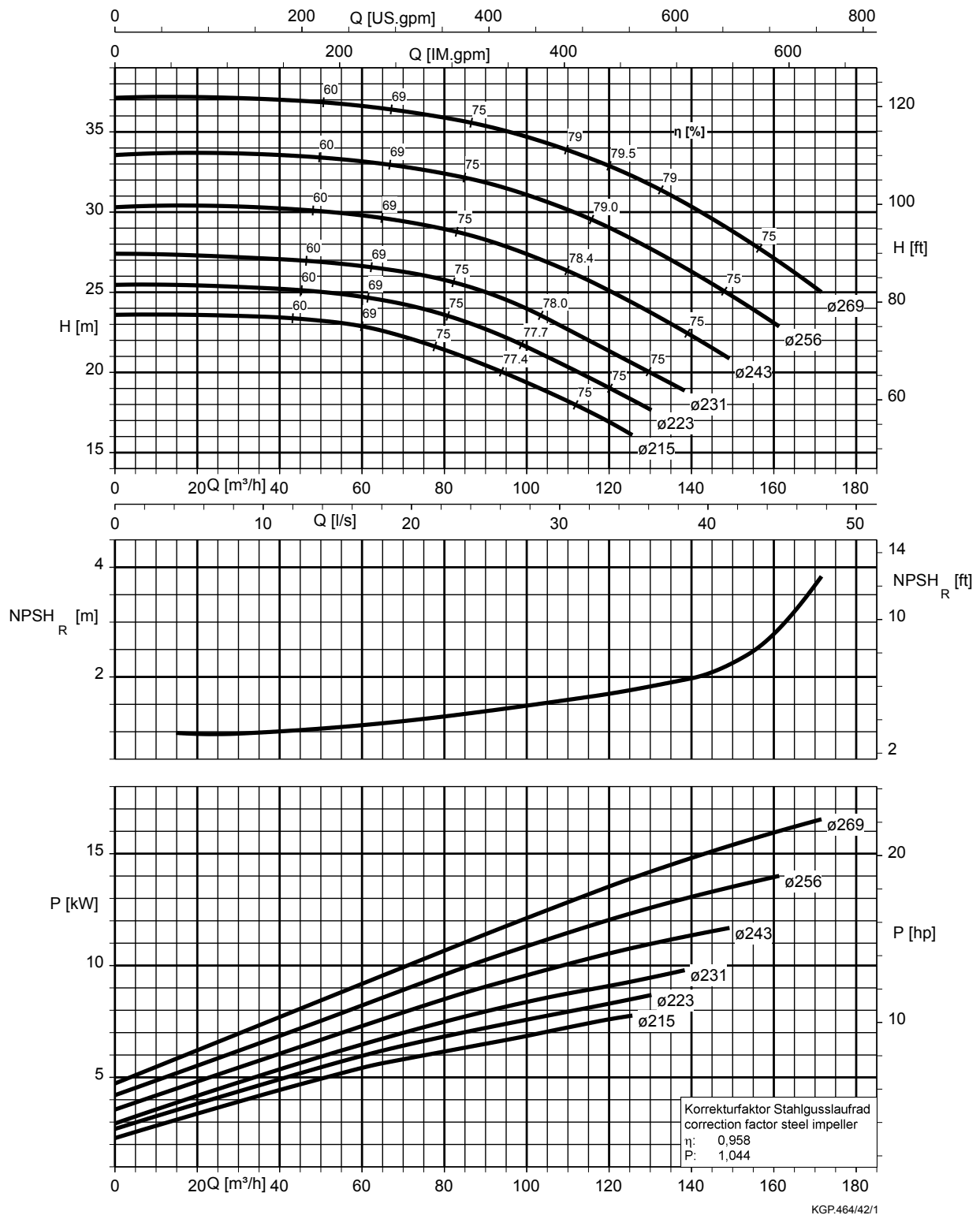
MegaCPK 125-080-200, n = 1750 rpm

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



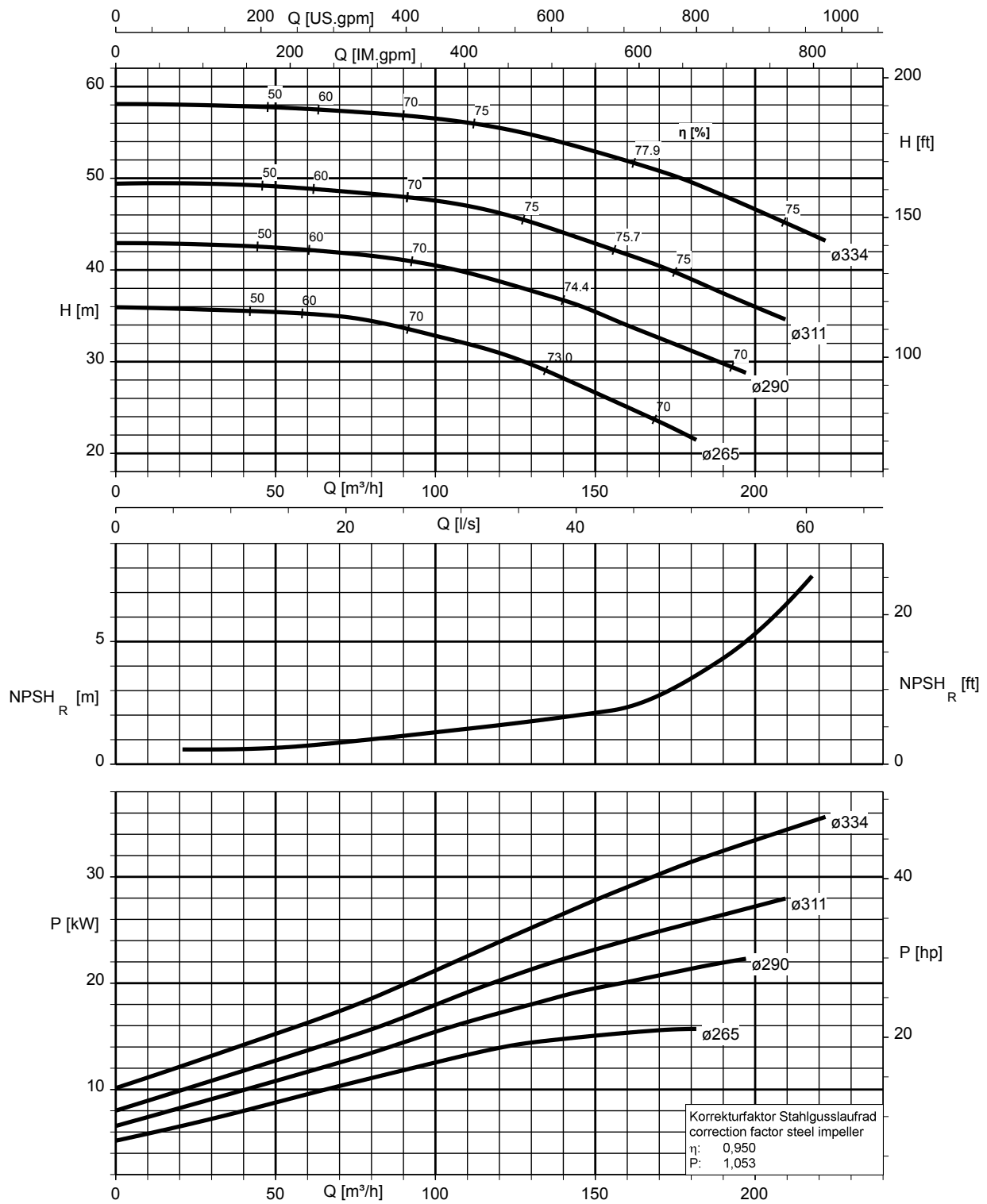
MegaCPK 125-080-250, n = 1750 rpm

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



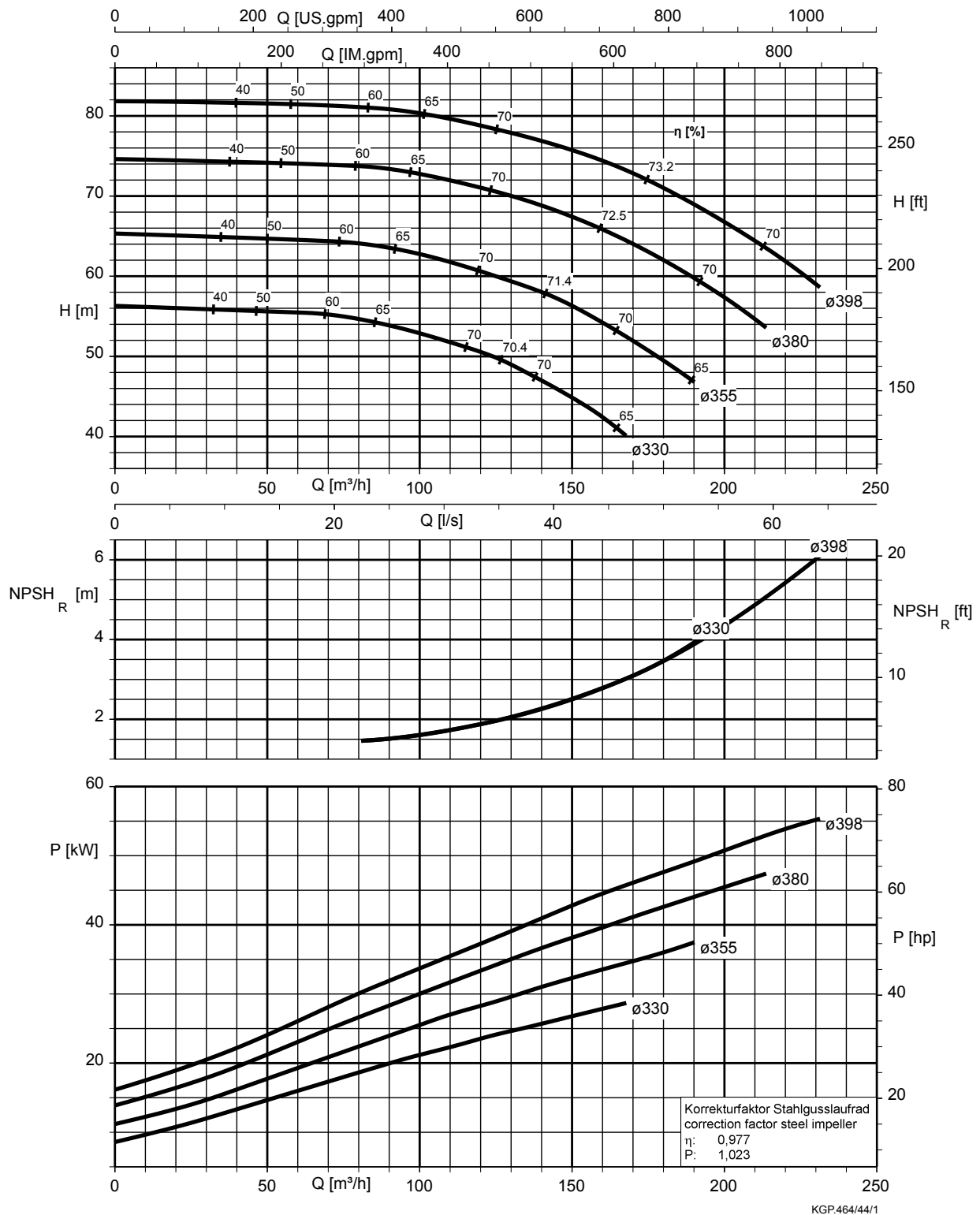
MegaCPK 125-080-315, n = 1750 rpm

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



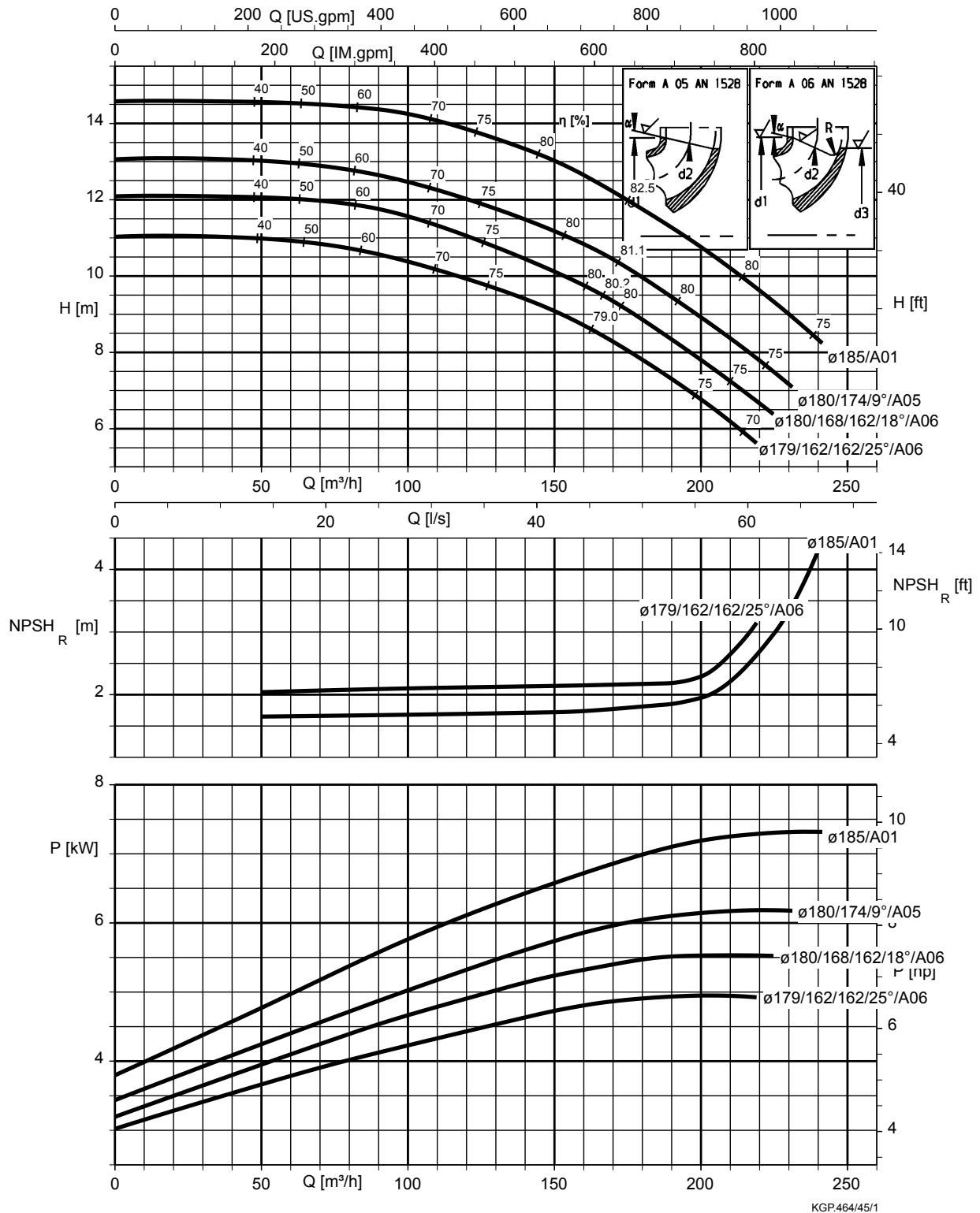
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HPK-L, Magnochem, Magnochem-Bloc, Meganorm



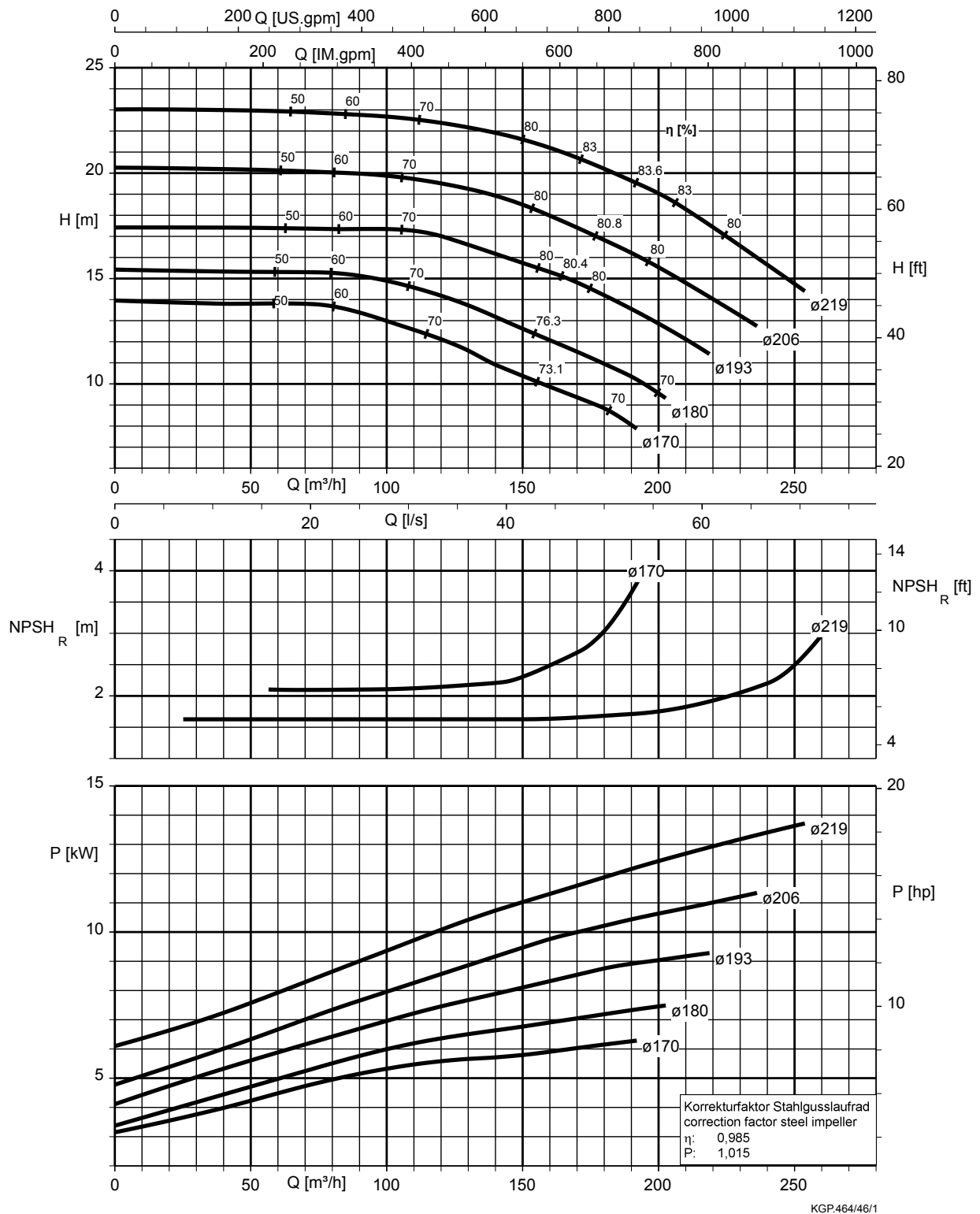
MegaCPK 125-100-160, n = 1750 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



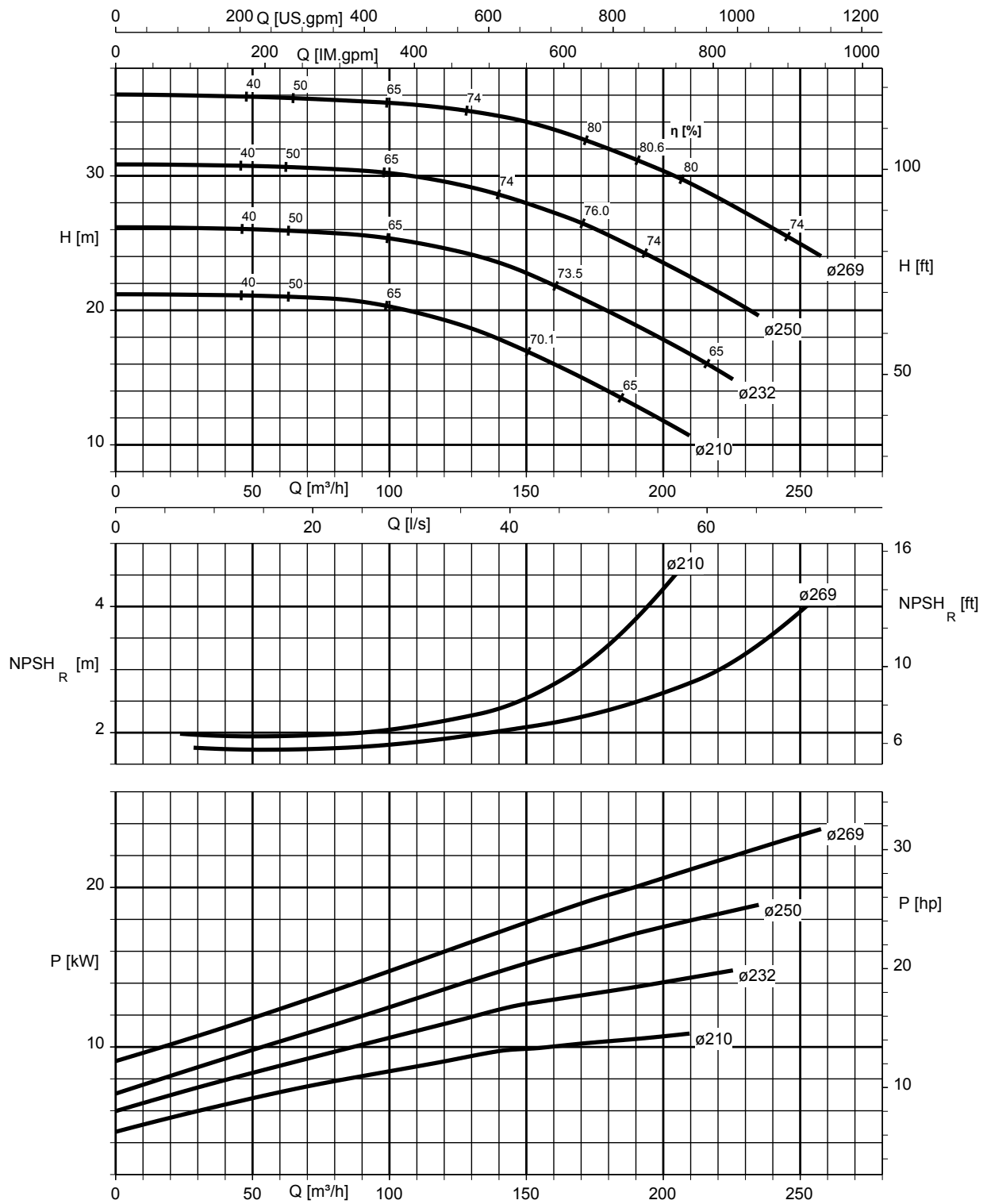
MegaCPK 125-100-200, n = 1750 rpm

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



MegaCPK 125-100-250, n = 1750 rpm

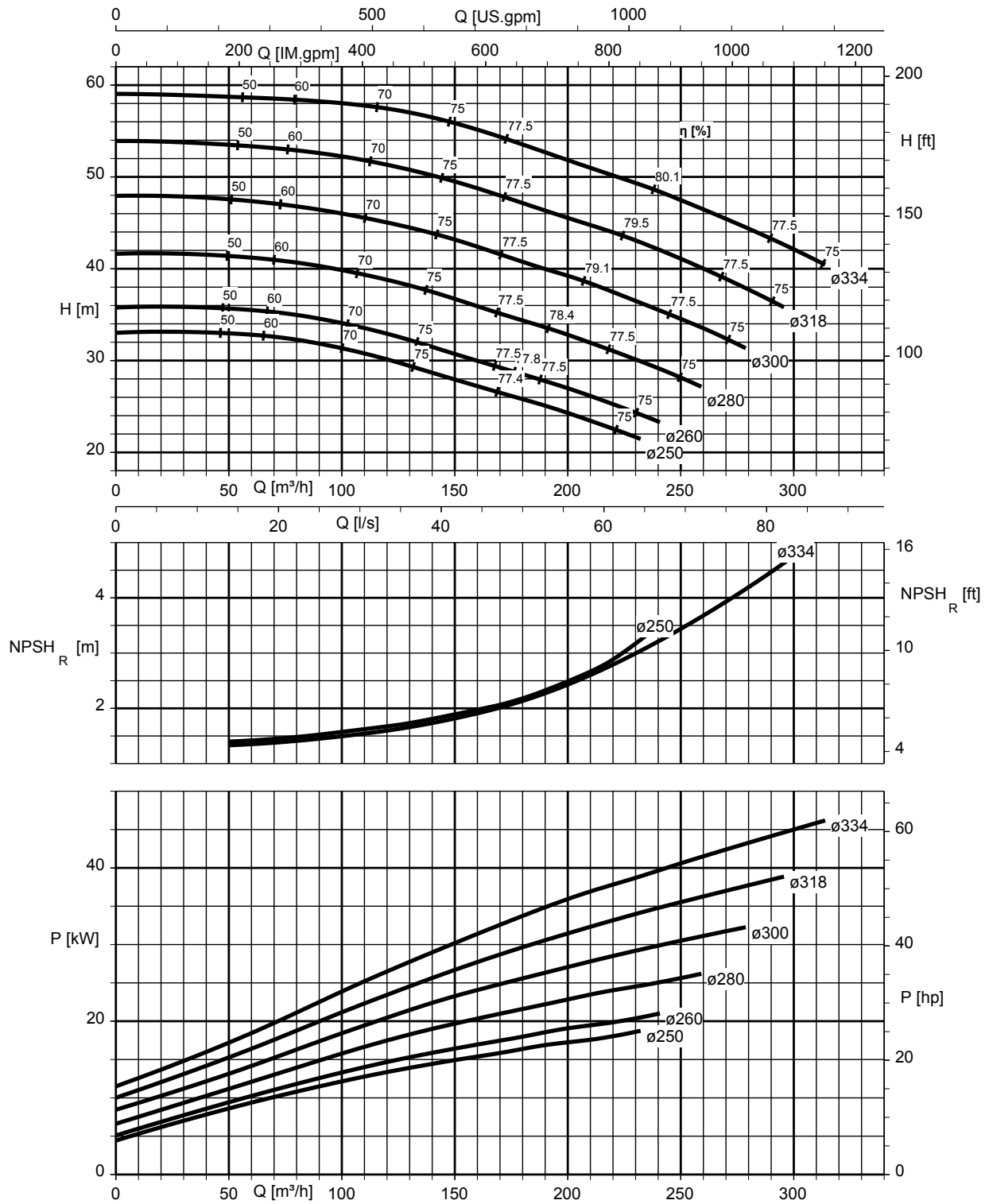
HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



KGP.464/47/2

MegaCPK 125-100-315, n = 1750 rpm

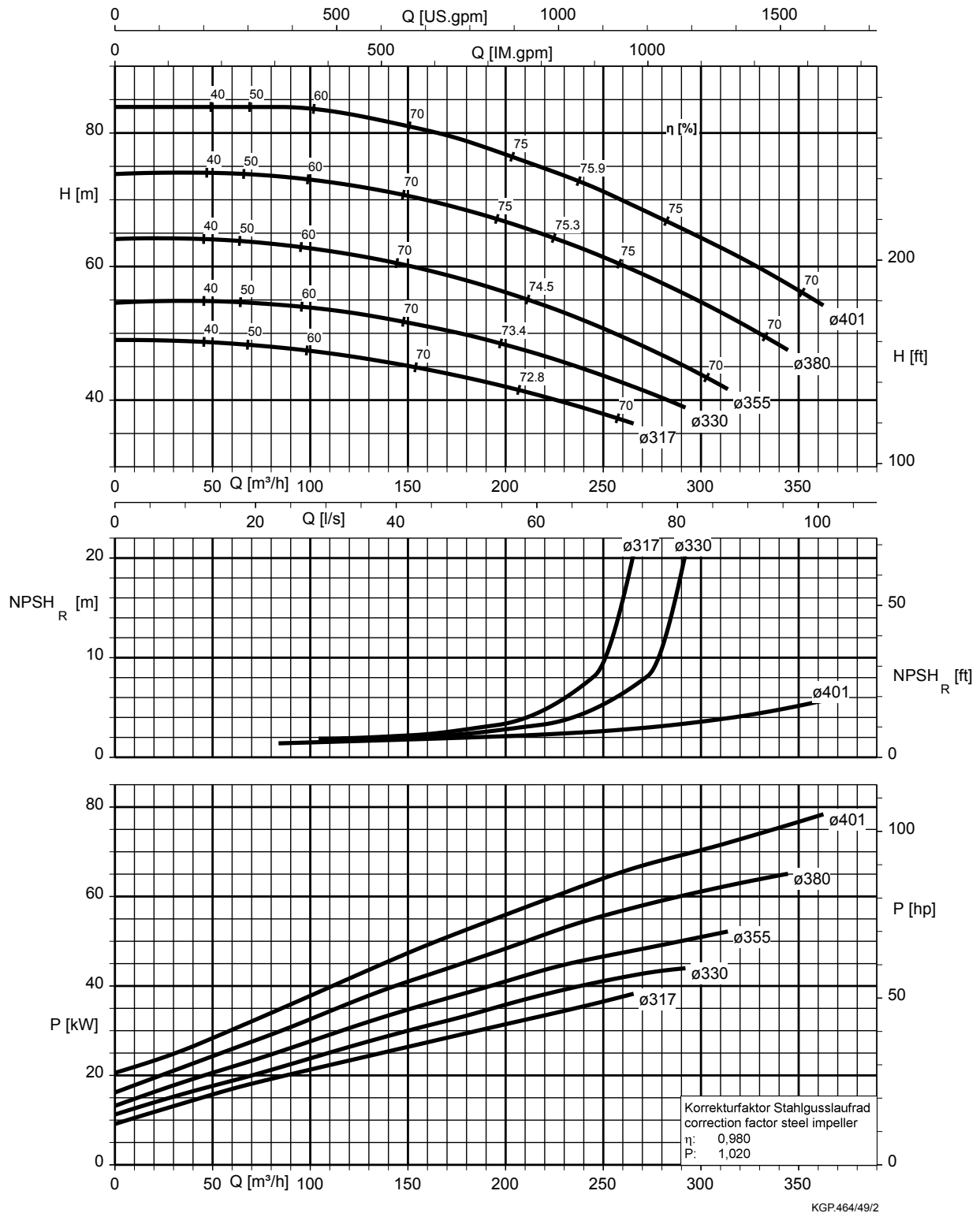
HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



KGP.464/48/1

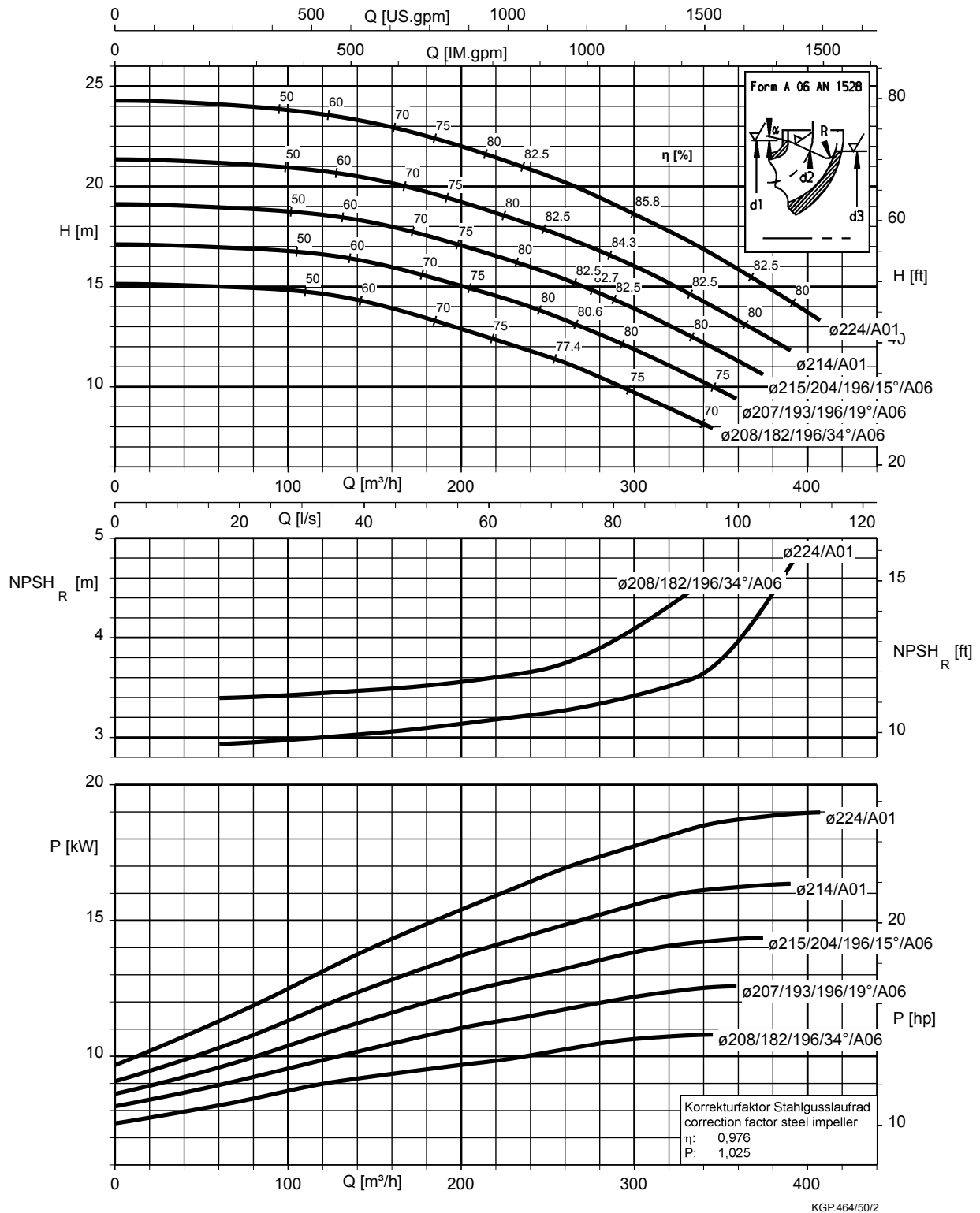
MegaCPK 125-100-400, n = 1750 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



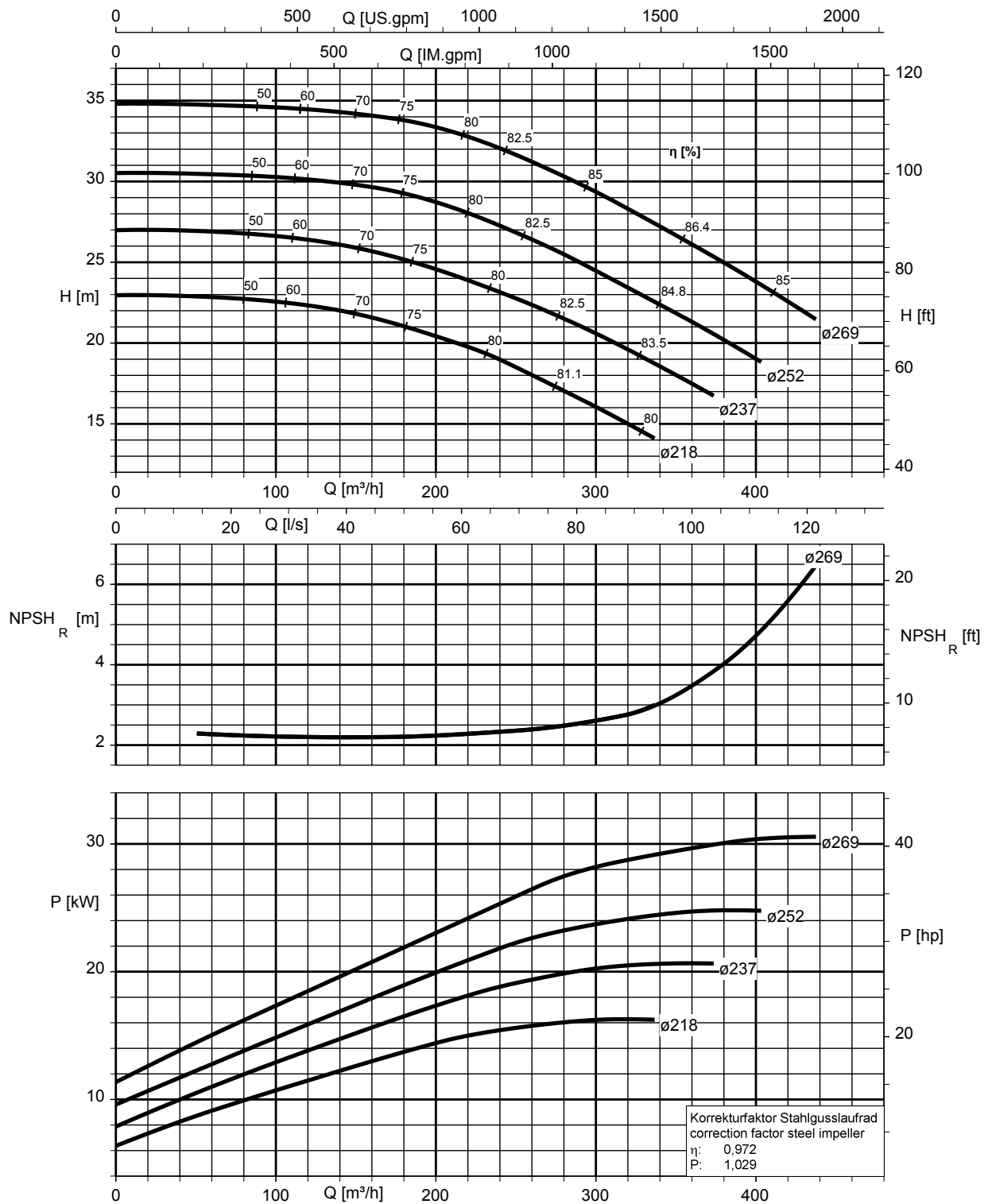
MegaCPK 150-125-200, n = 1750 rpm

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



MegaCPK 150-125-250, n = 1750 rpm

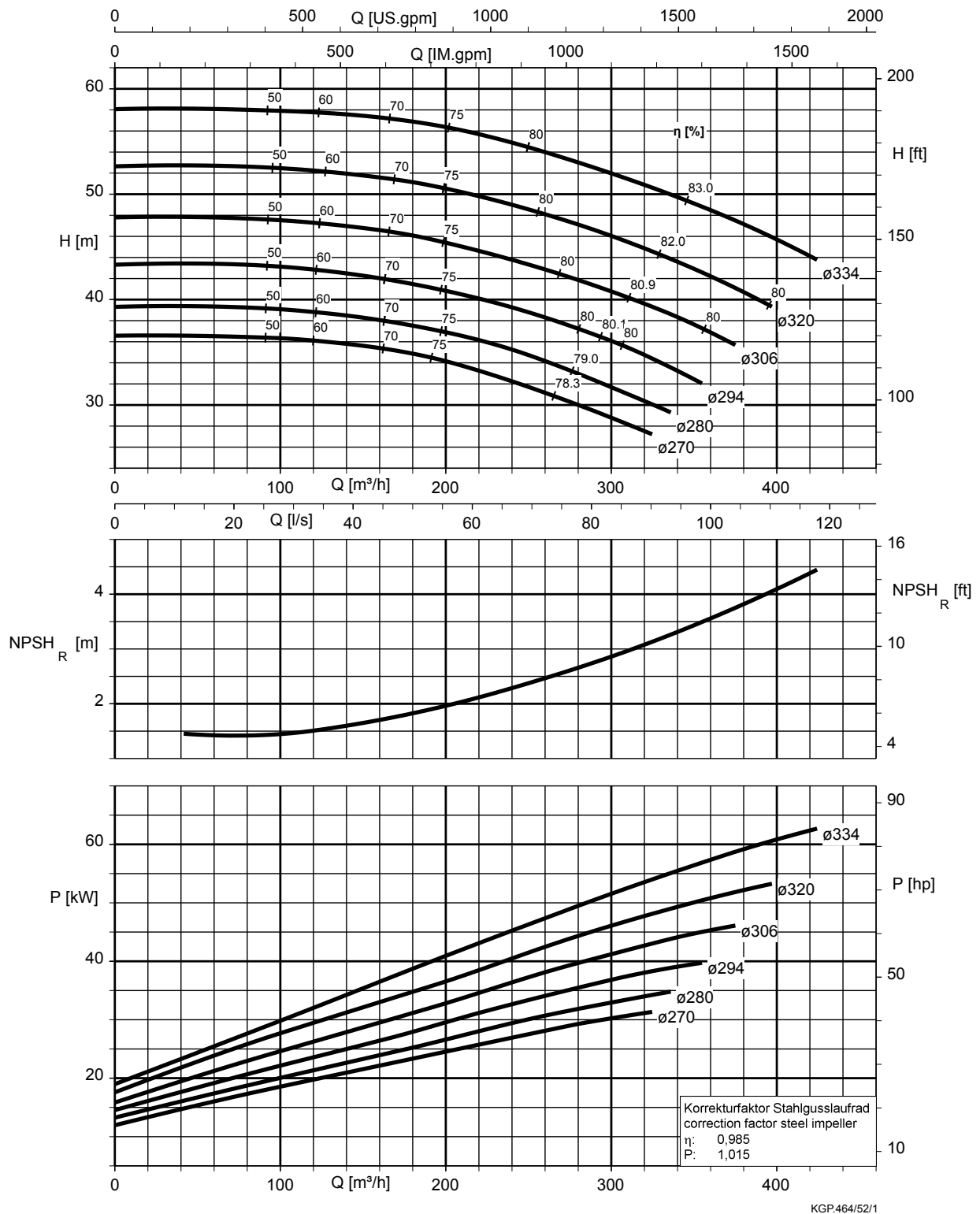
HPK-L, Magnochem, Magnochem-Bloc, Meganorm, Megabloc



KGP.464/51/1

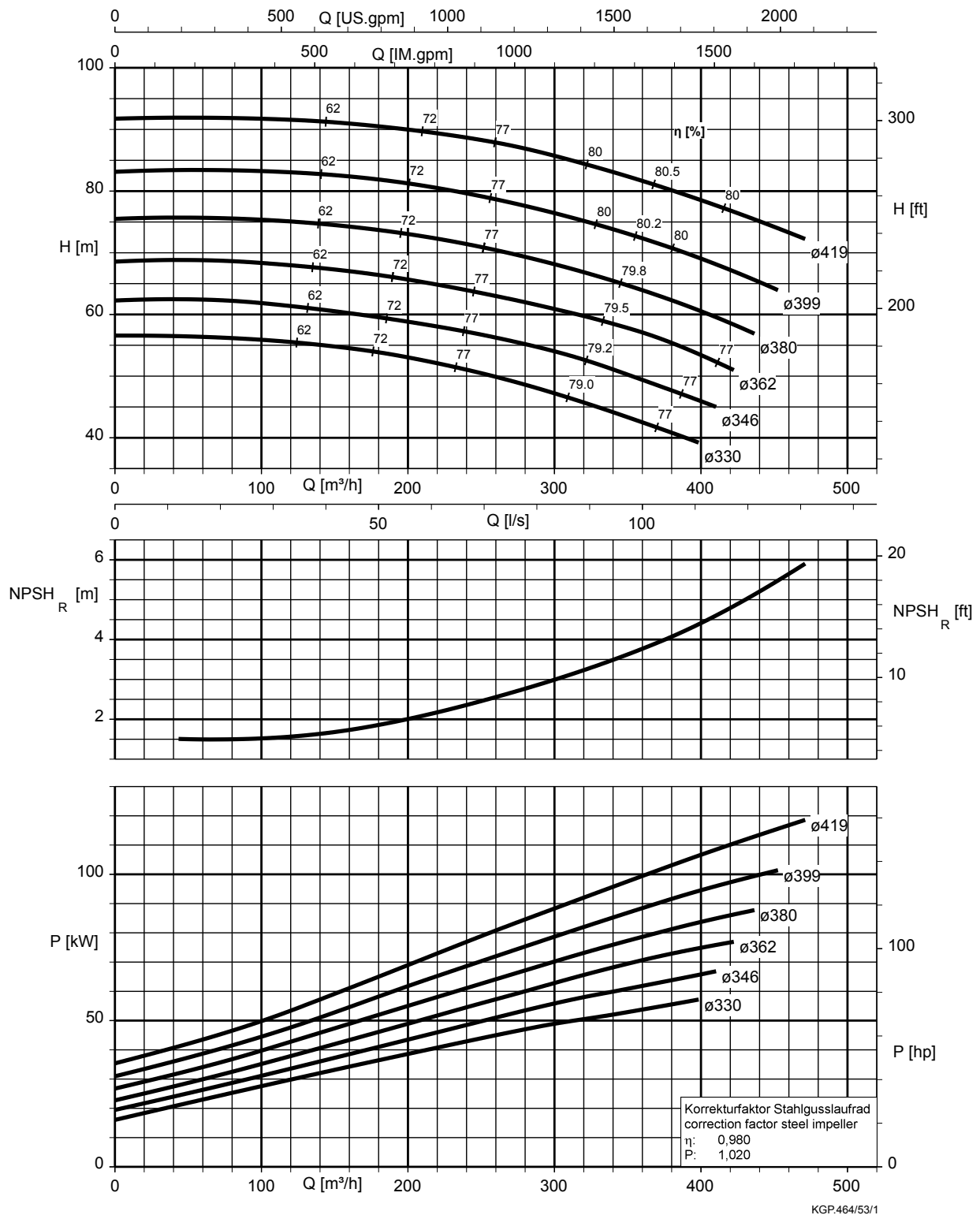
MegaCPK 150-125-315, n = 1750 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



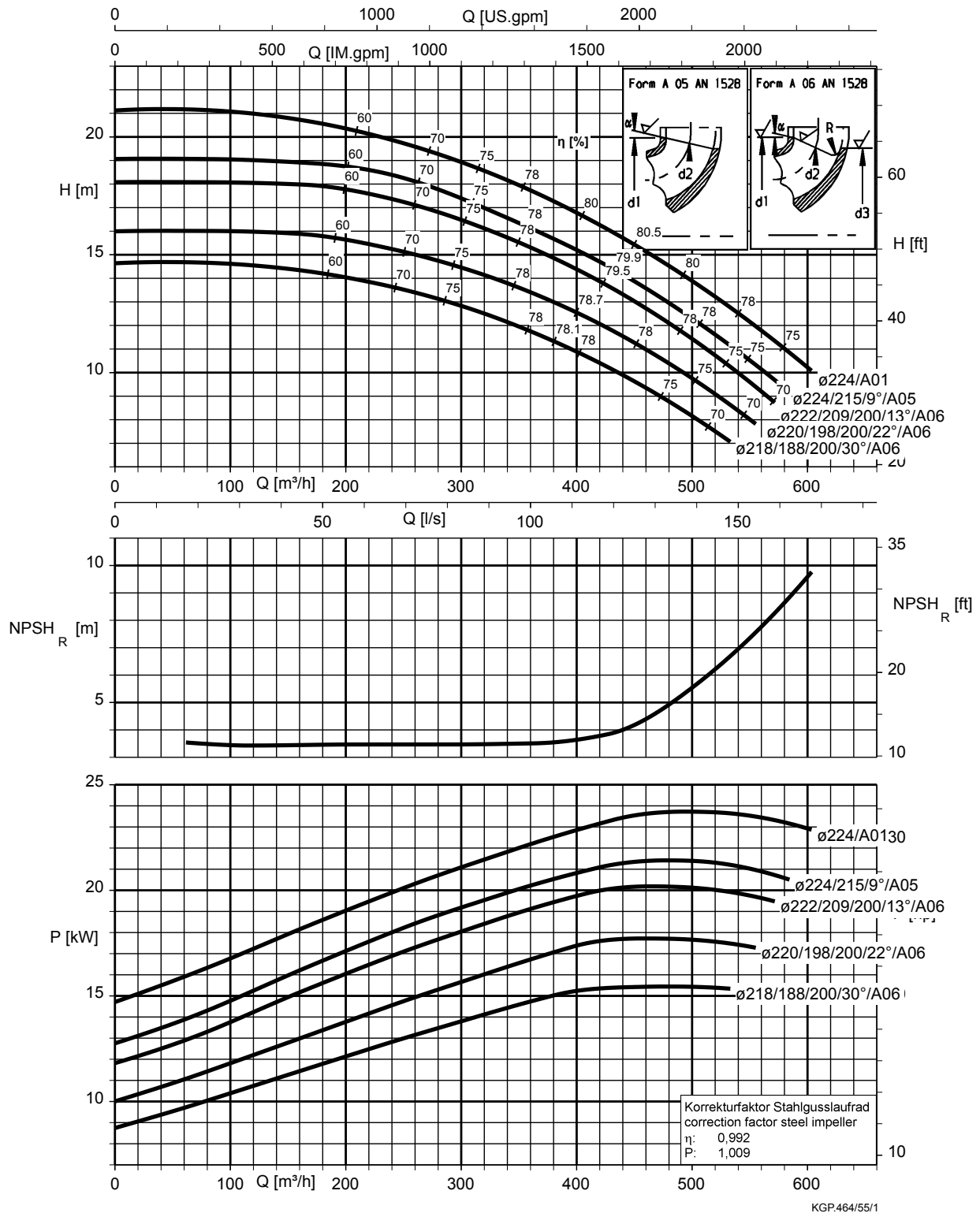
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HPK-L, Magnochem, Magnochem-Bloc, Meganorm



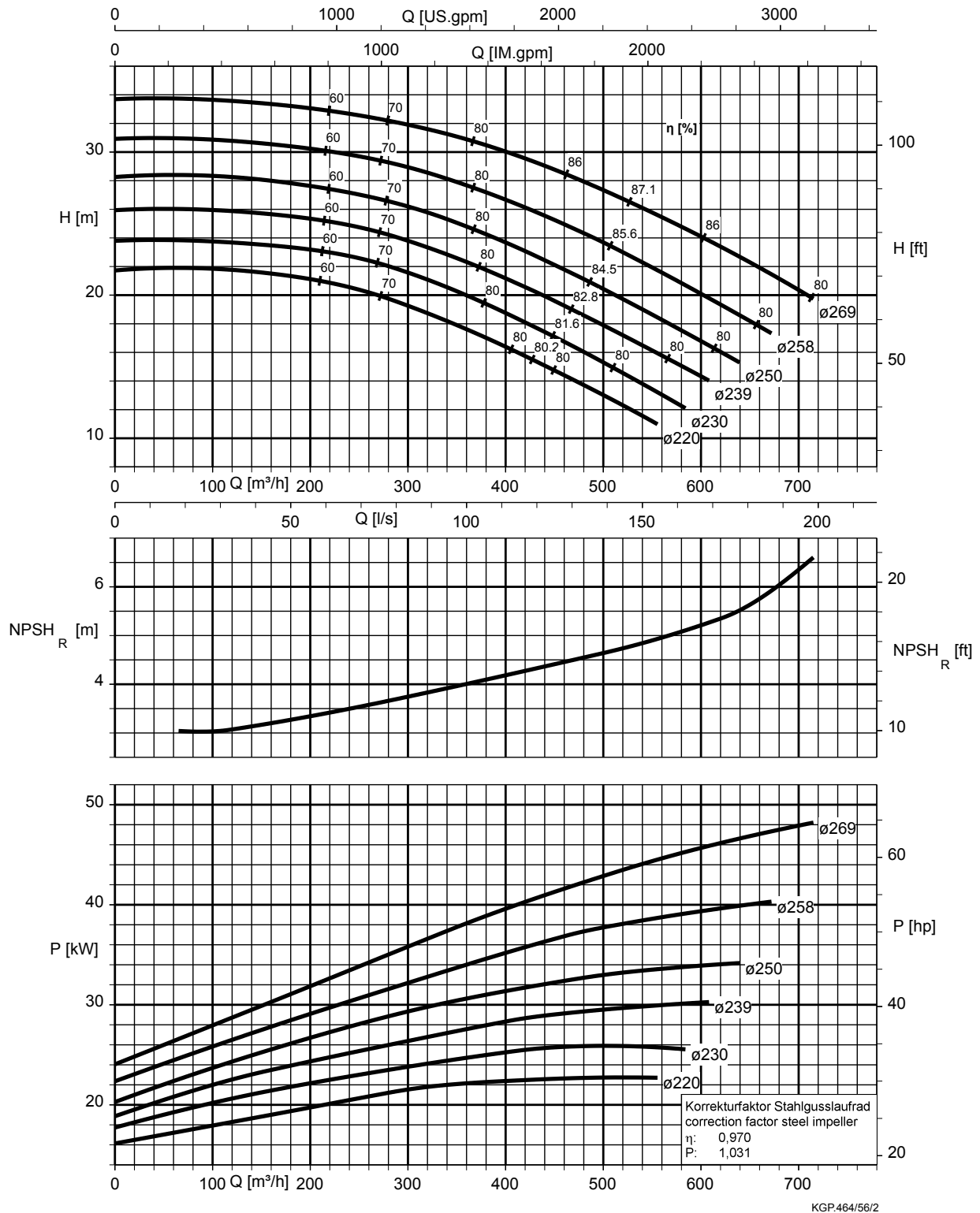
MegaCPK 200-150-200, n = 1750 rpm

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



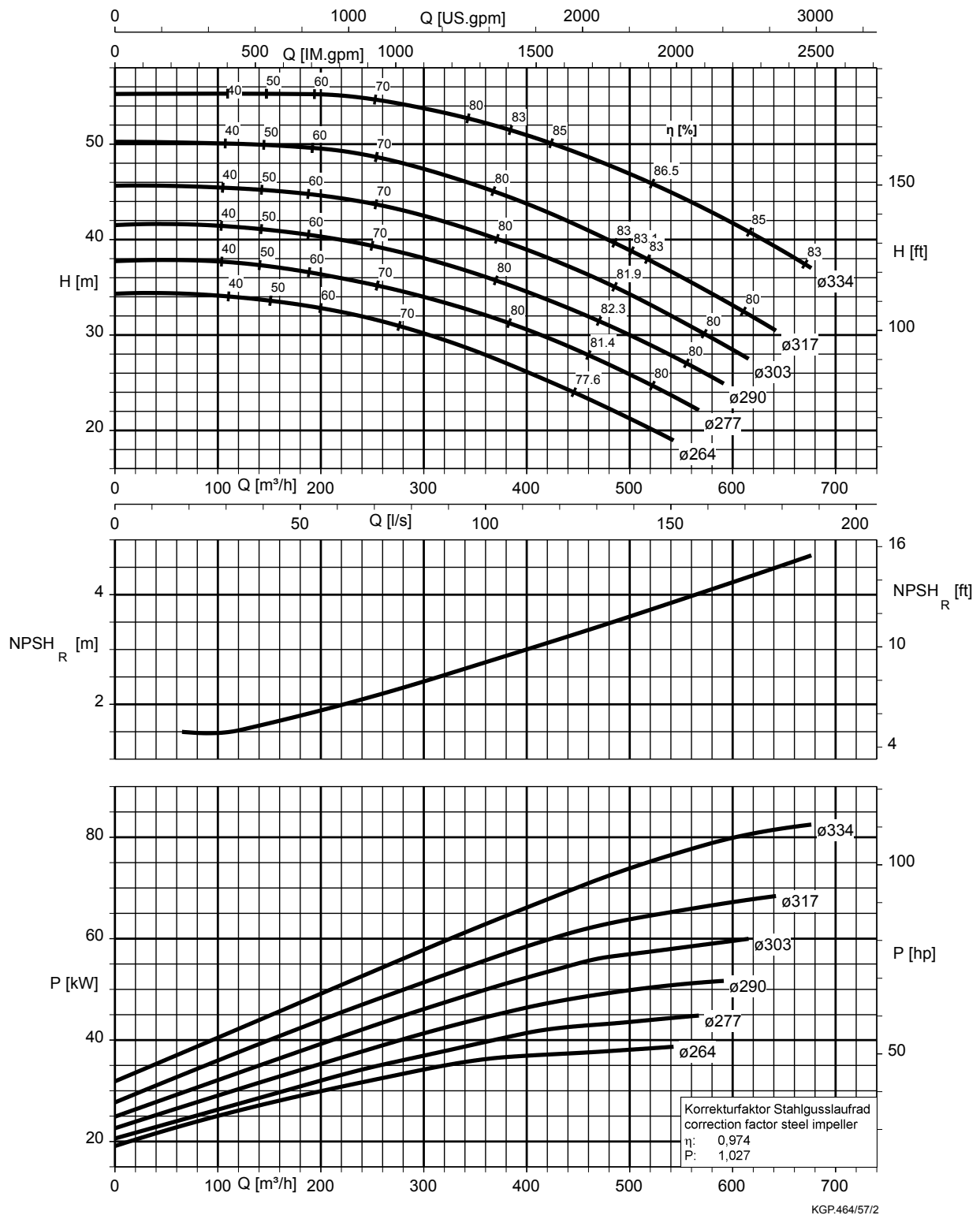
MegaCPK 200-150-250, n = 1750 rpm

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



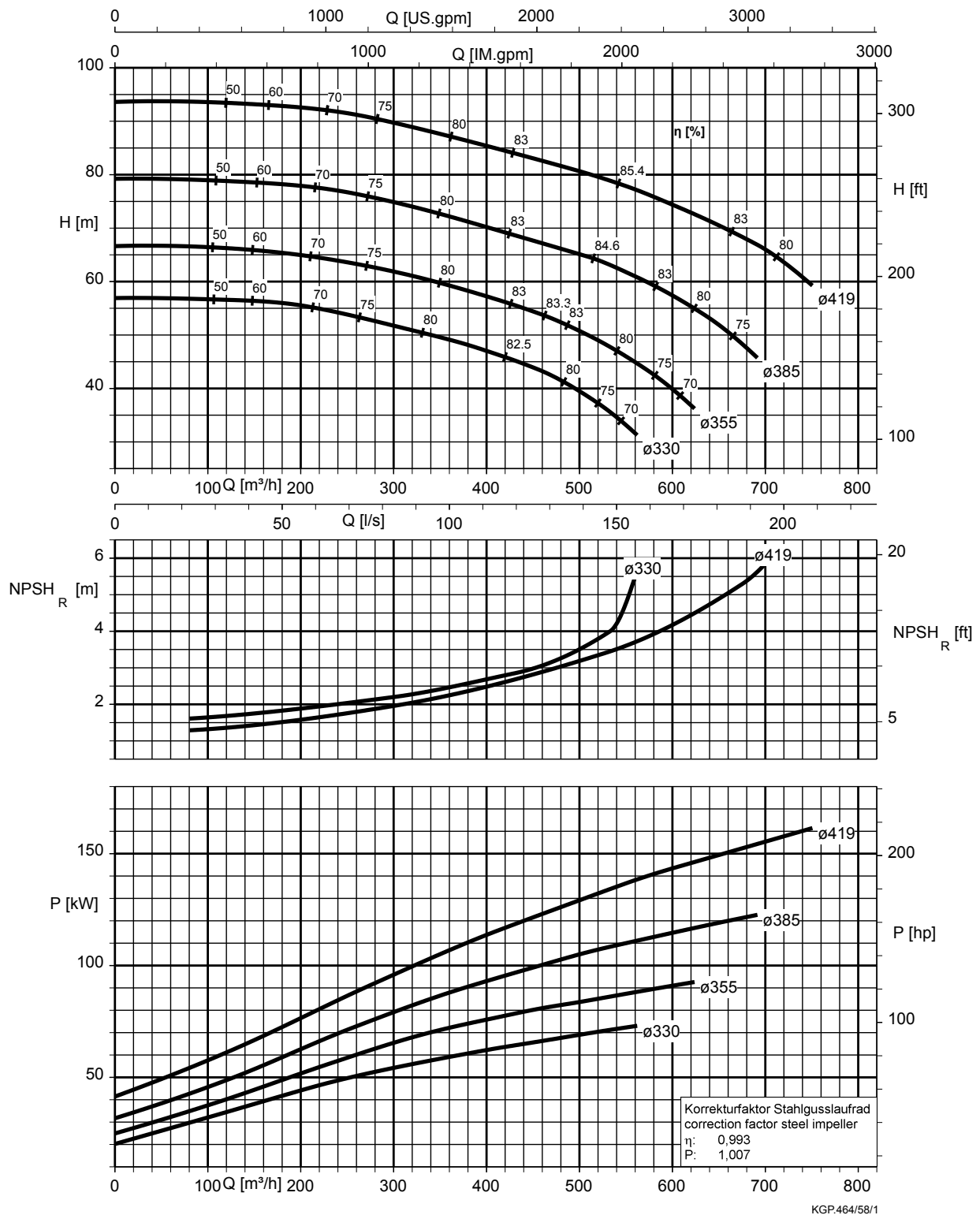
MegaCPK 200-150-315, n = 1750 rpm

HPK-L, Magnochem, Meganorm



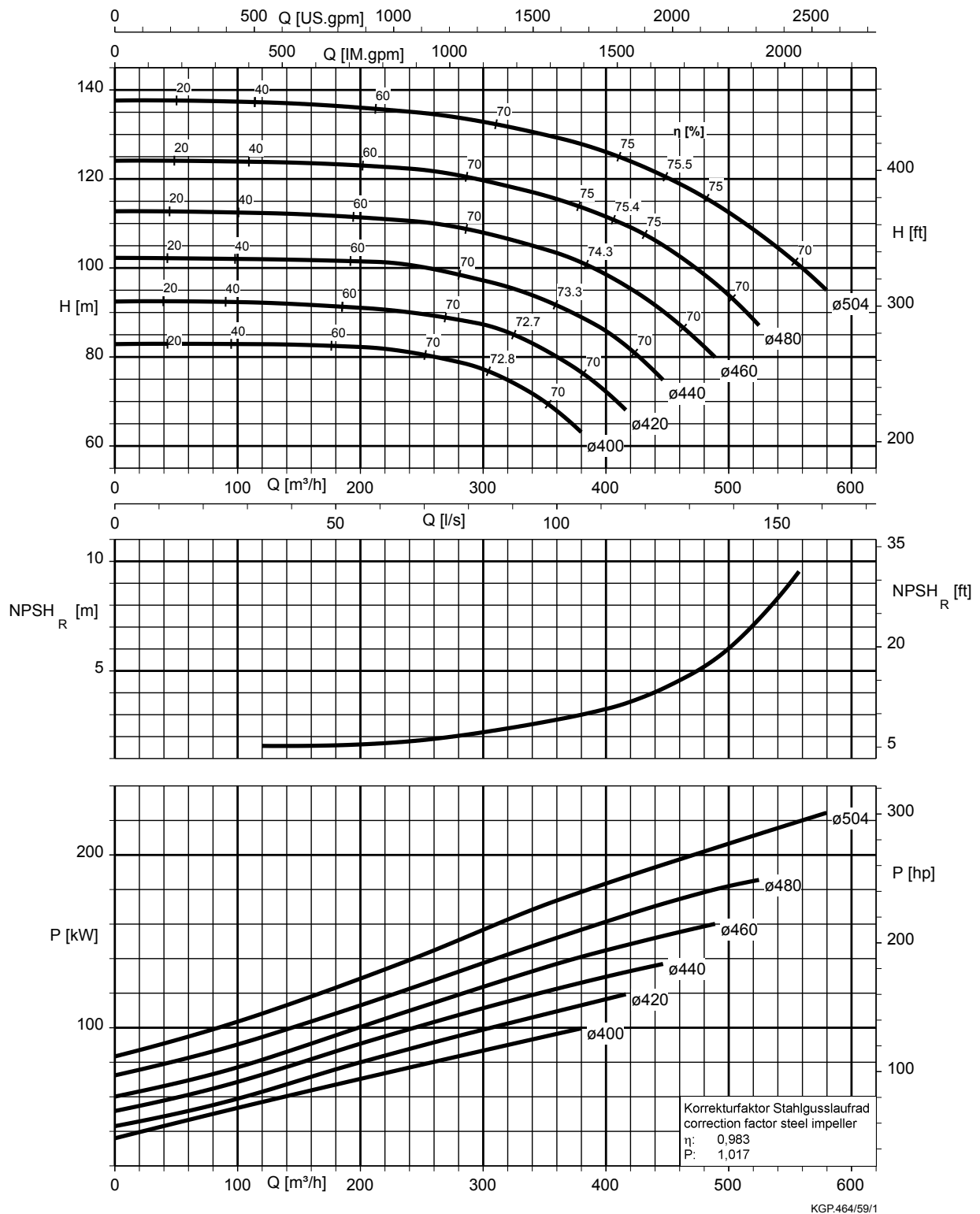
MegaCPK 200-150-400, n = 1750 rpm

HPK-L, Magnochem, Meganorm



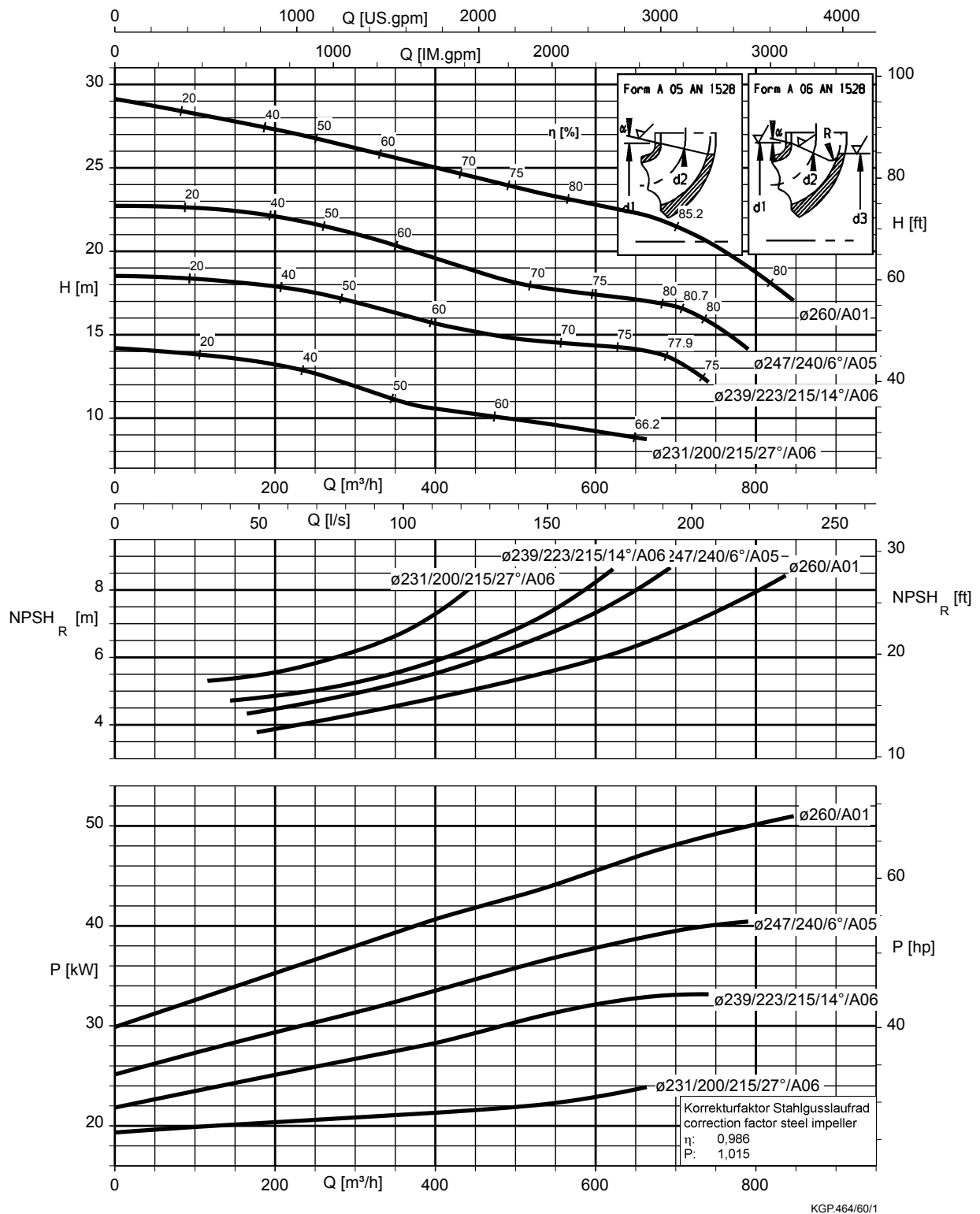
MegaCPK 200-150-500, n = 1750 rpm

HPK-L, Magnochem, Meganorm



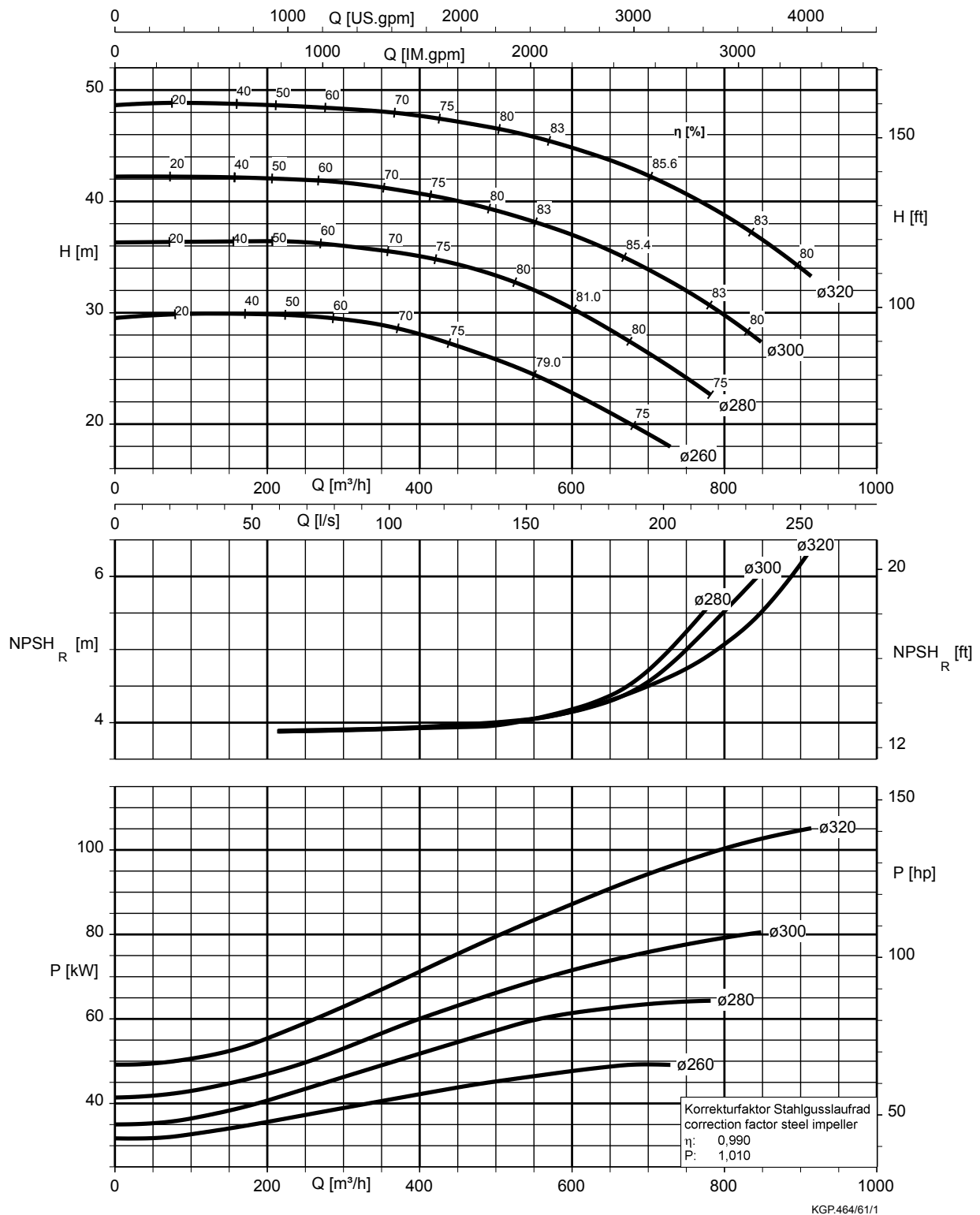
MegaCPK 200-200-250, n = 1750 rpm

HPK-L, Magnochem, Meganorm



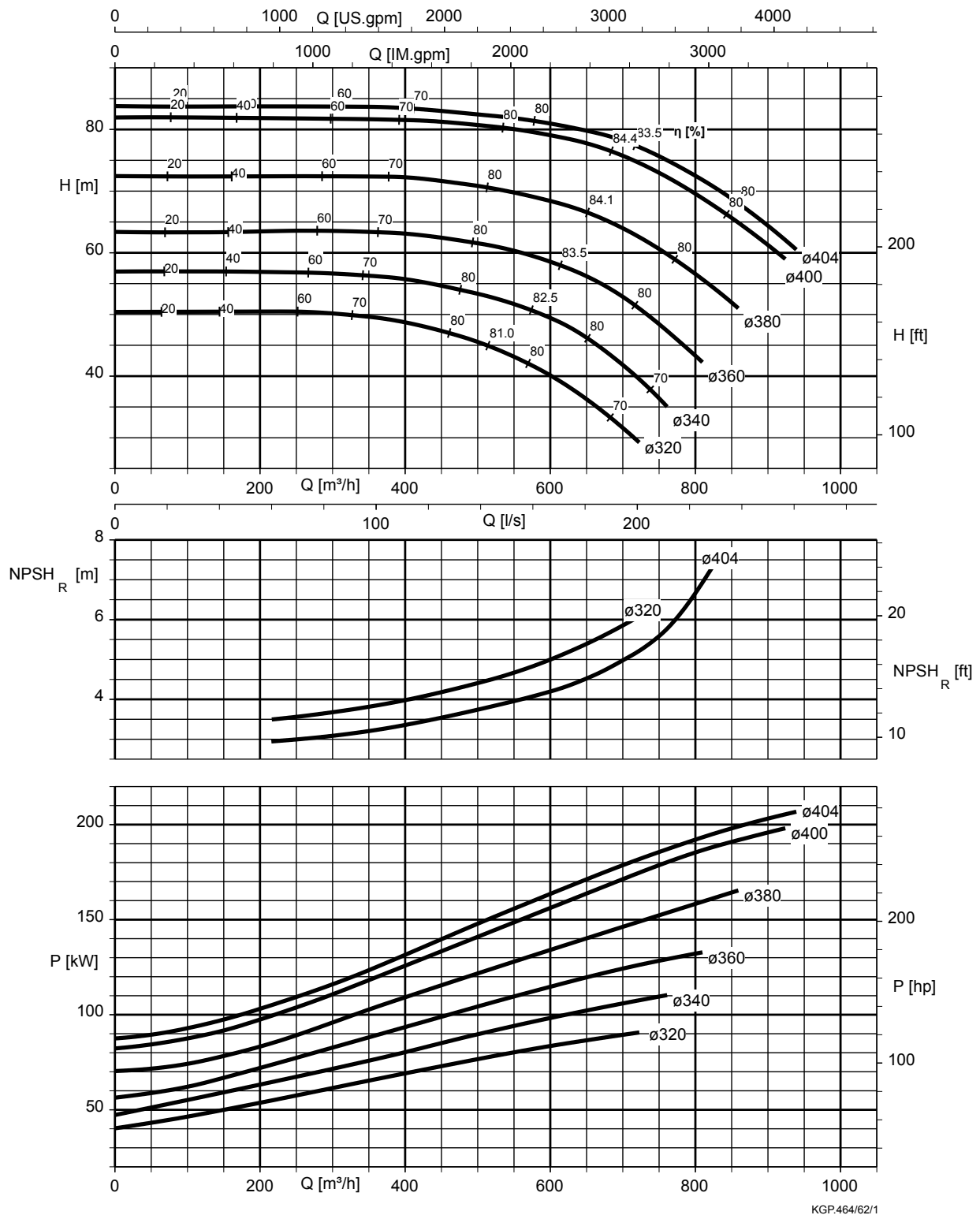
MegaCPK 250-200-315, n = 1750 rpm

HPK-L, Magnochem, Meganorm



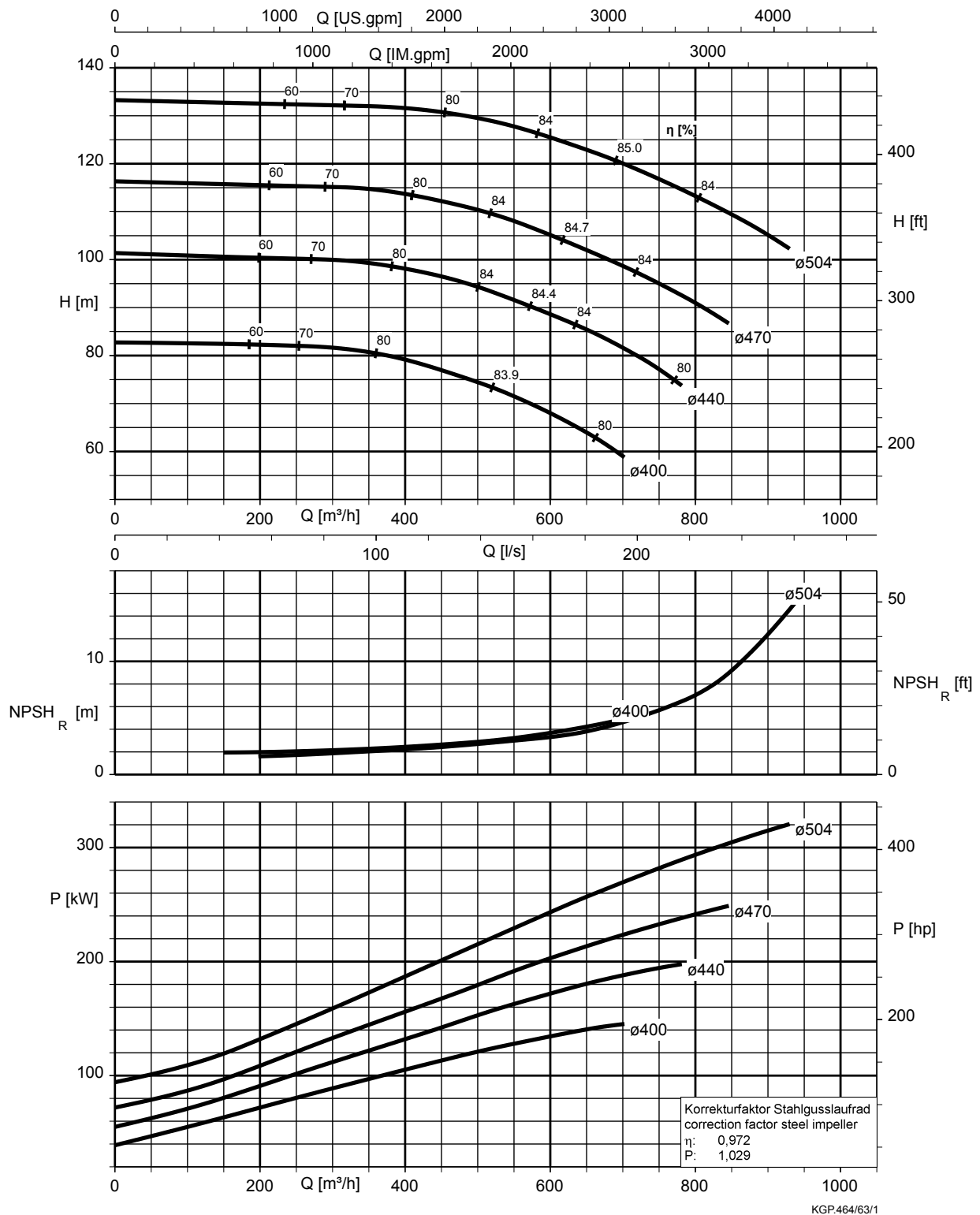
MegaCPK 250-200-400, n = 1750 rpm

HPK-L, Magnochem, Meganorm



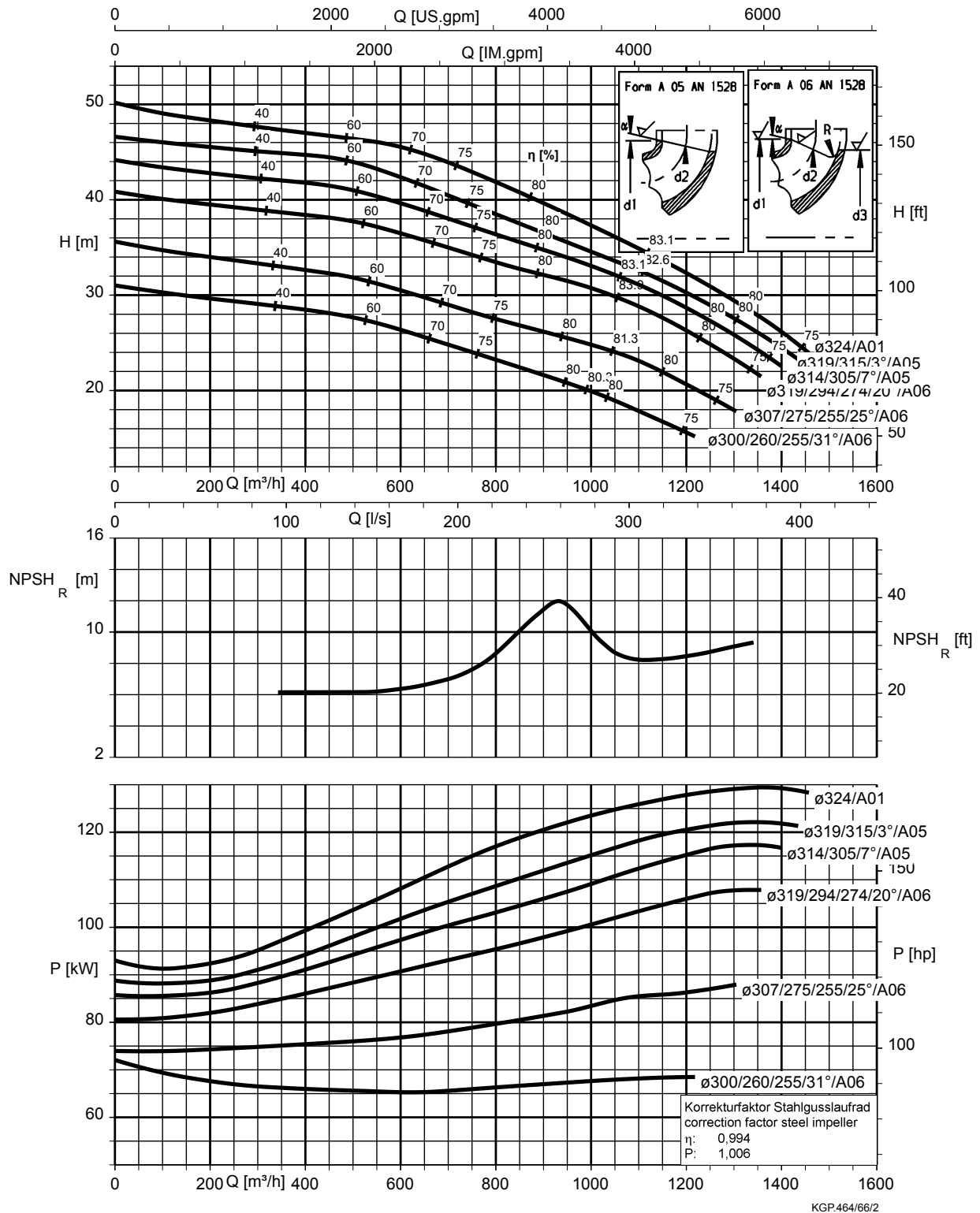
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HPK-L, Magnochem, Meganorm



MegaCPK 300-250-315, $n = 1750$ rpm

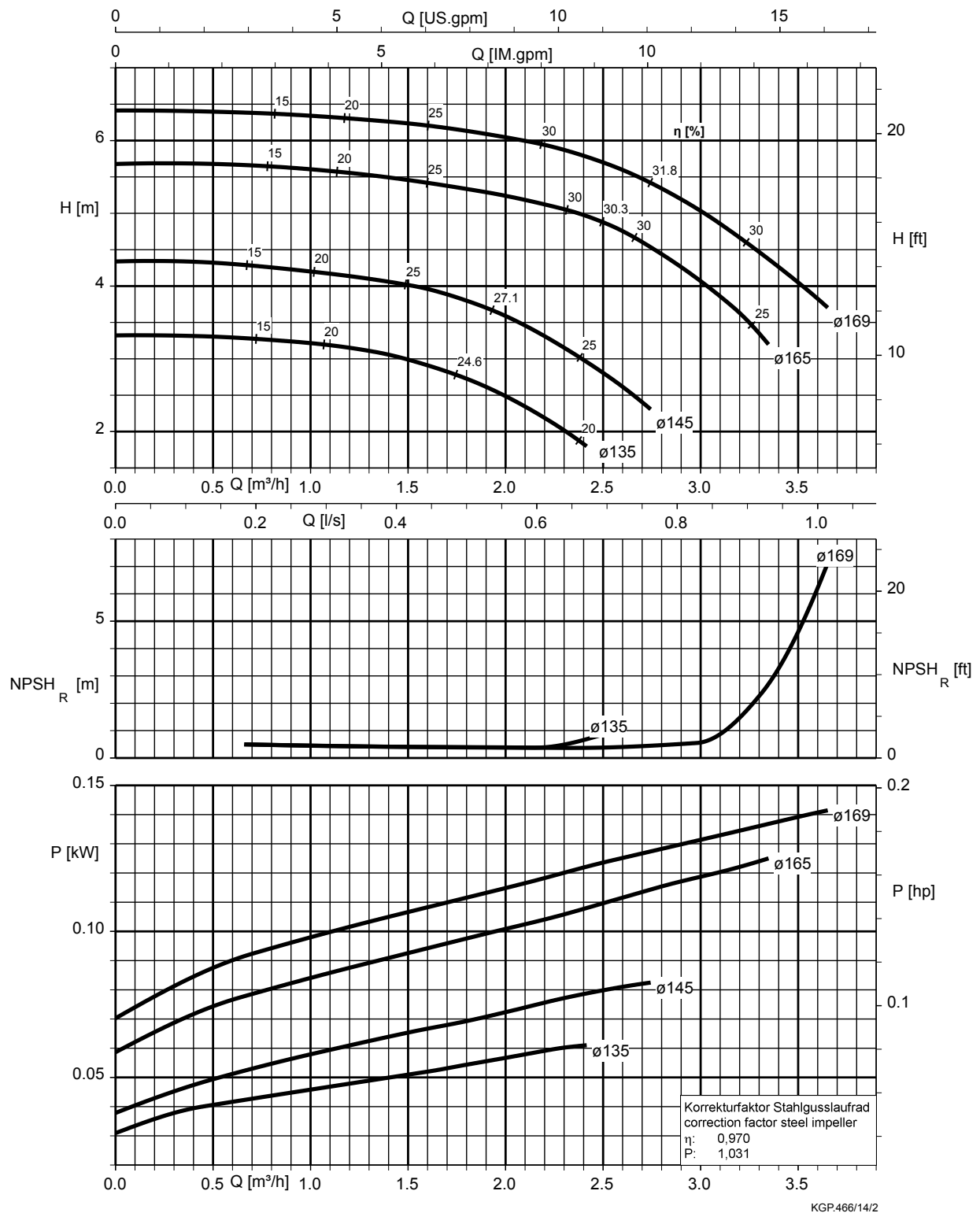
HPK-L, Magnochem, Meganorm



$n = 1160 \text{ rpm}$

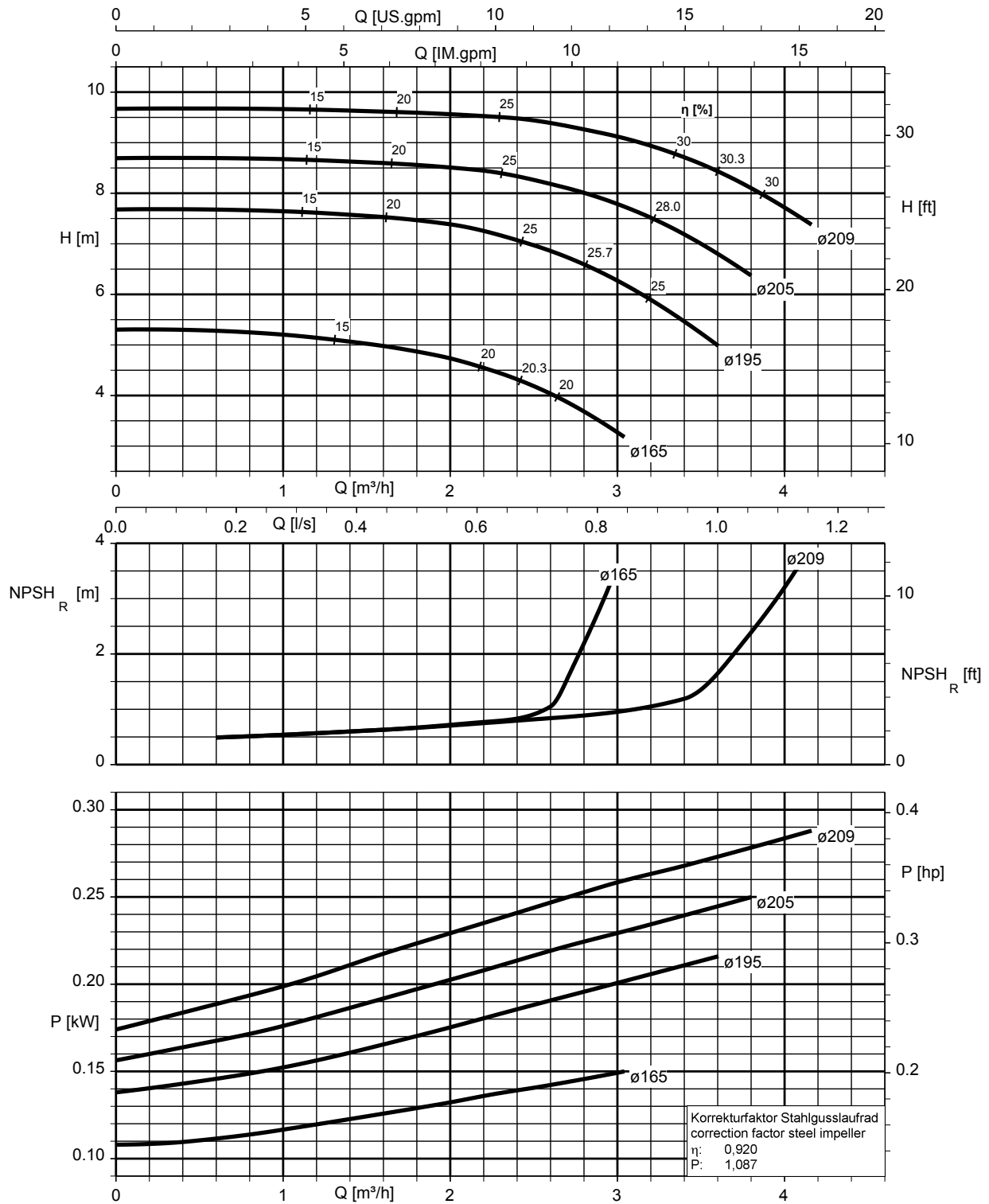
MegaCPK 040-025-160, $n = 1160 \text{ rpm}$

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



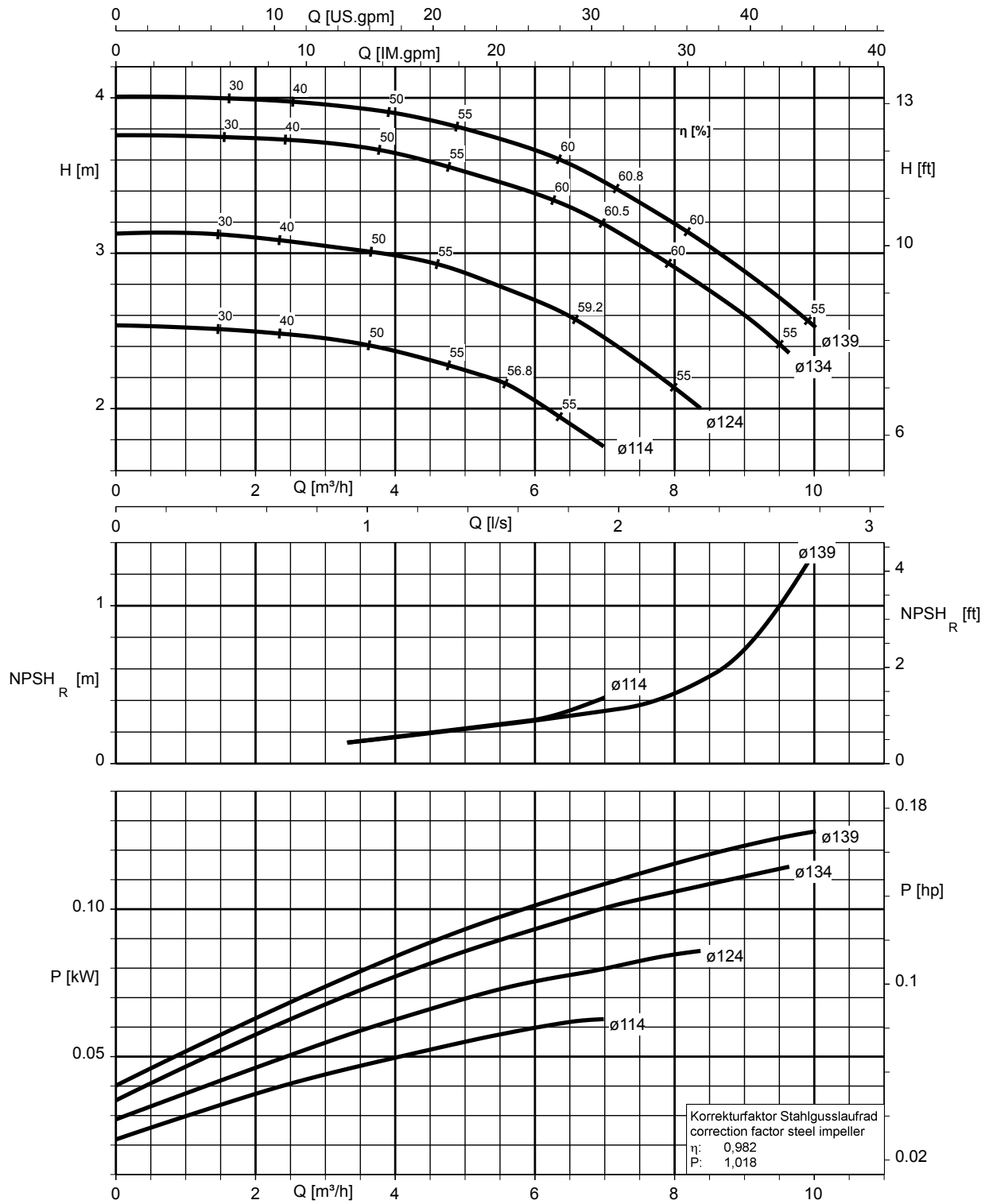
MegaCPK 040-025-200, n = 1160 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



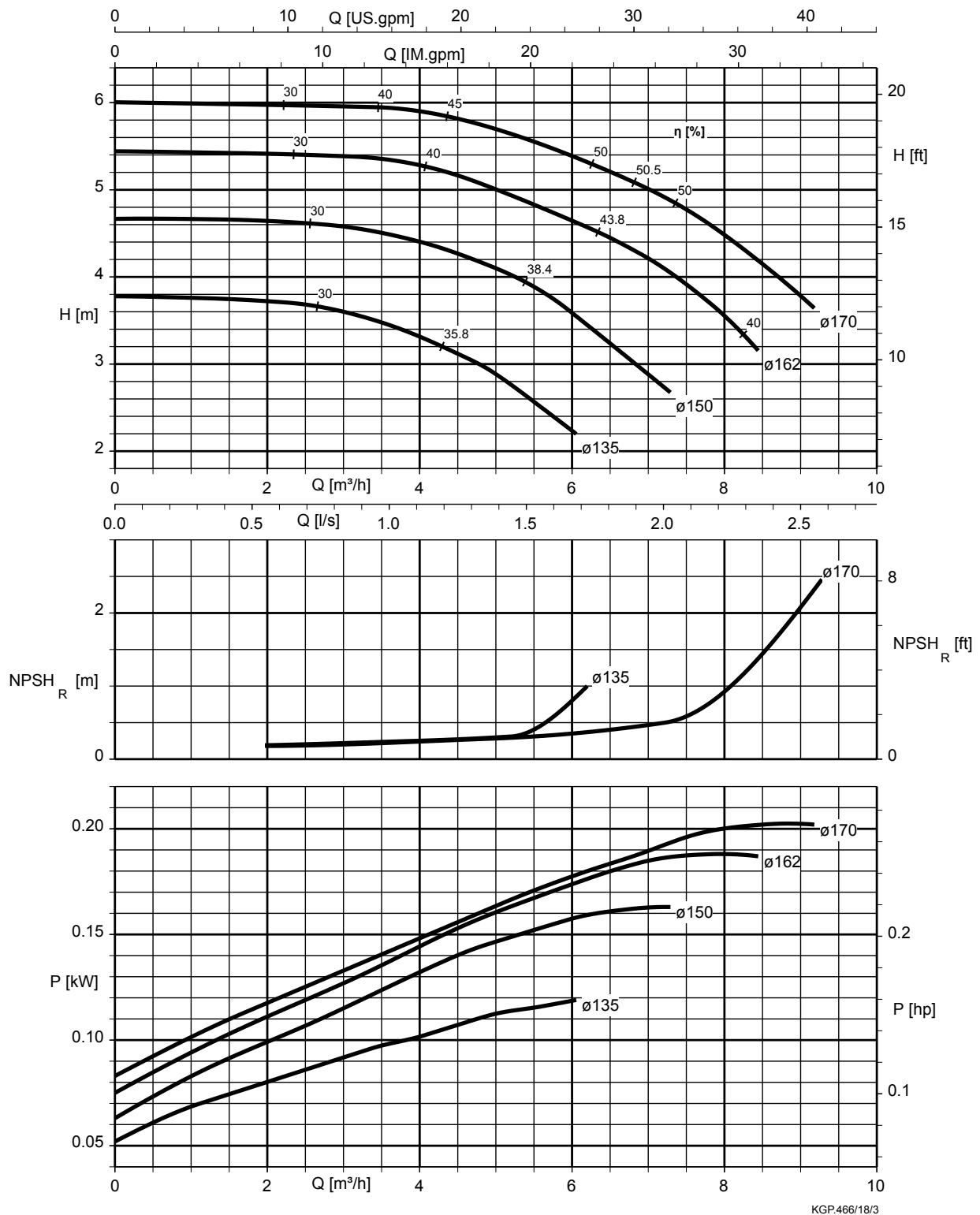
MegaCPK 050-032-125.1, n = 1160 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



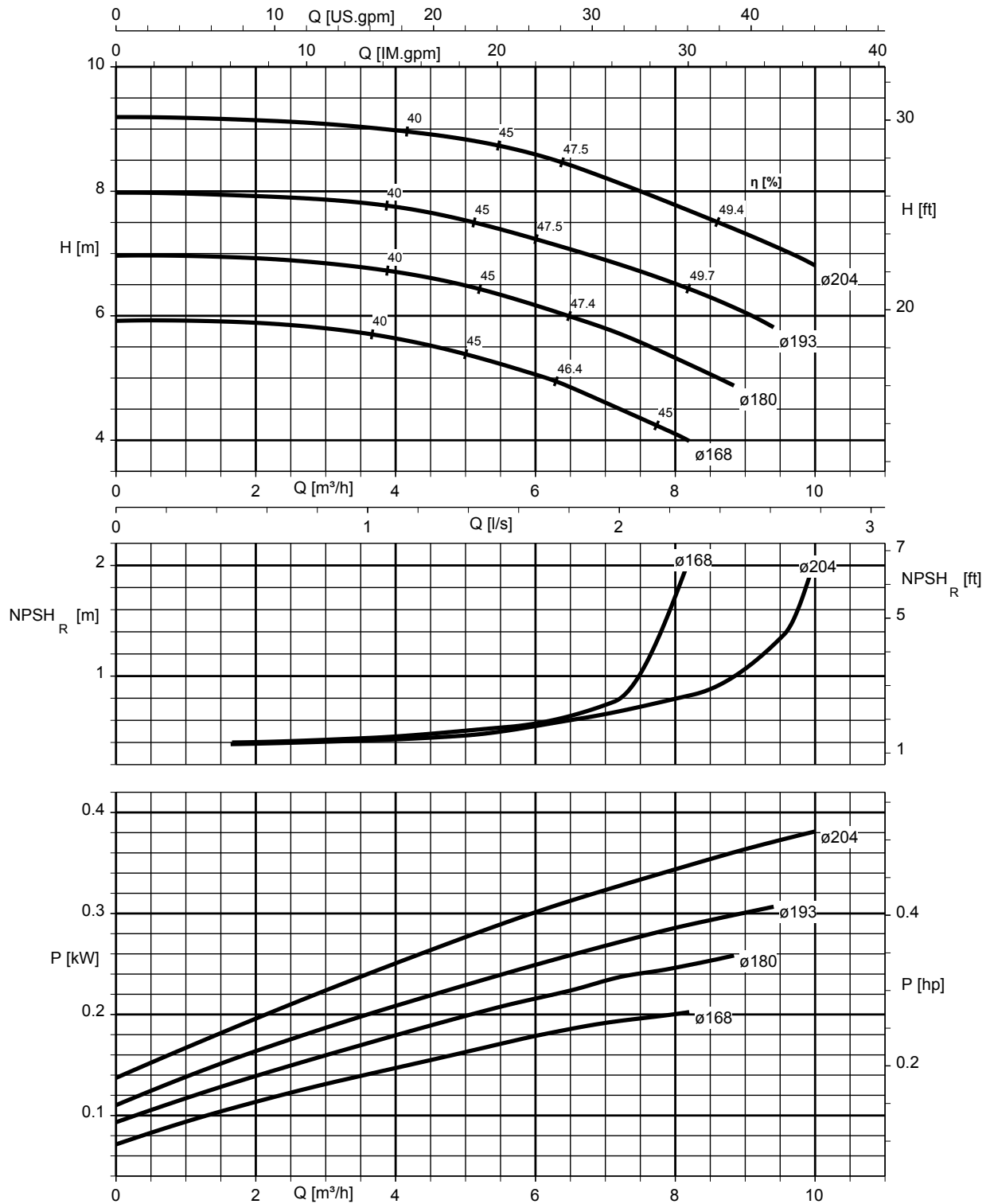
MegaCPK 050-032-160.1, n = 1160 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



MegaCPK 050-032-200.1, n = 1160 rpm

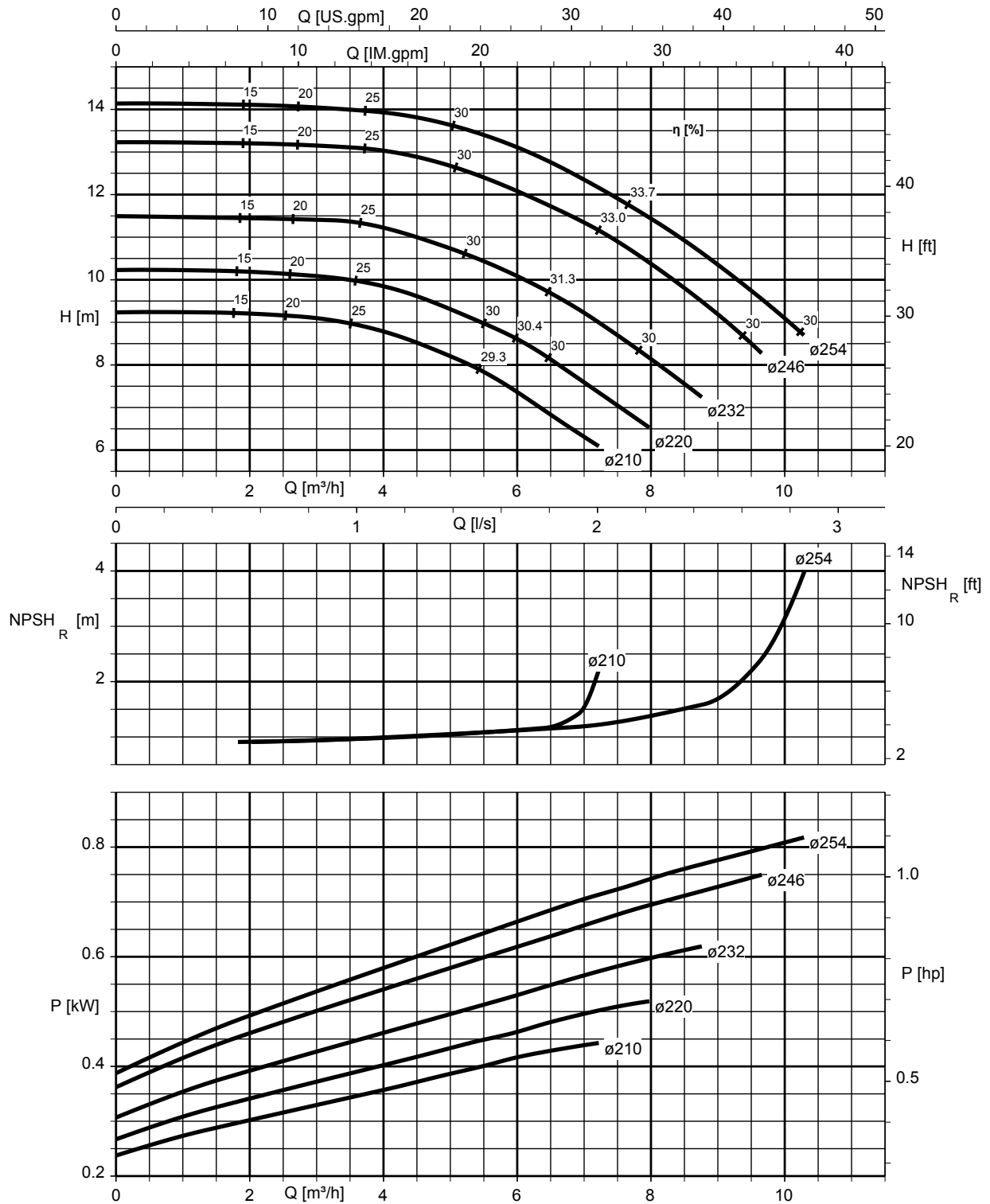
HPK-L, Magnochem, Magnochem-Bloc, Meganorm



KGP.466/19/2

MegaCPK 050-032-250.1, n = 1160 rpm

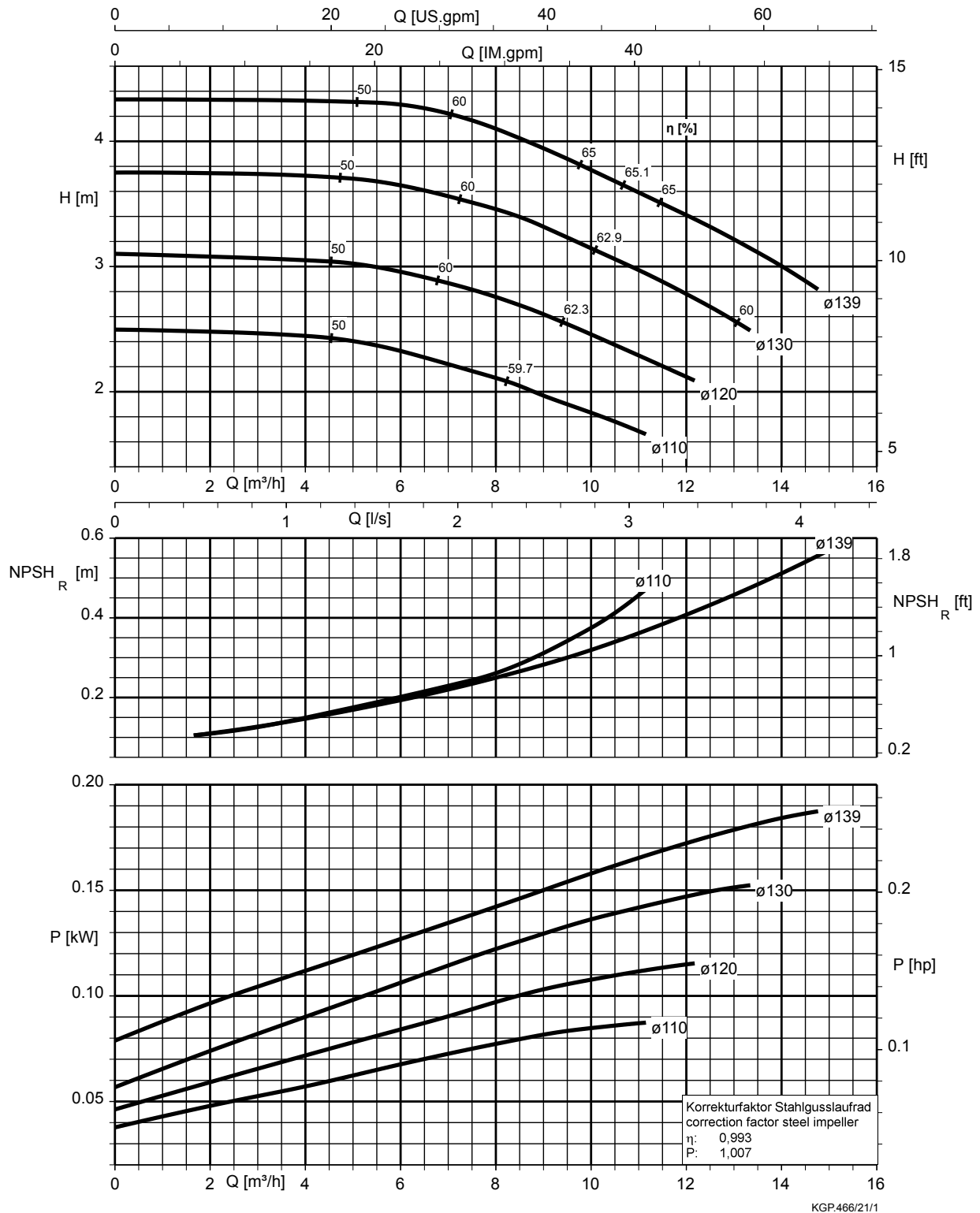
HPK-L, Magnochem, Magnochem-Bloc, Meganorm



KGP.466/20/2

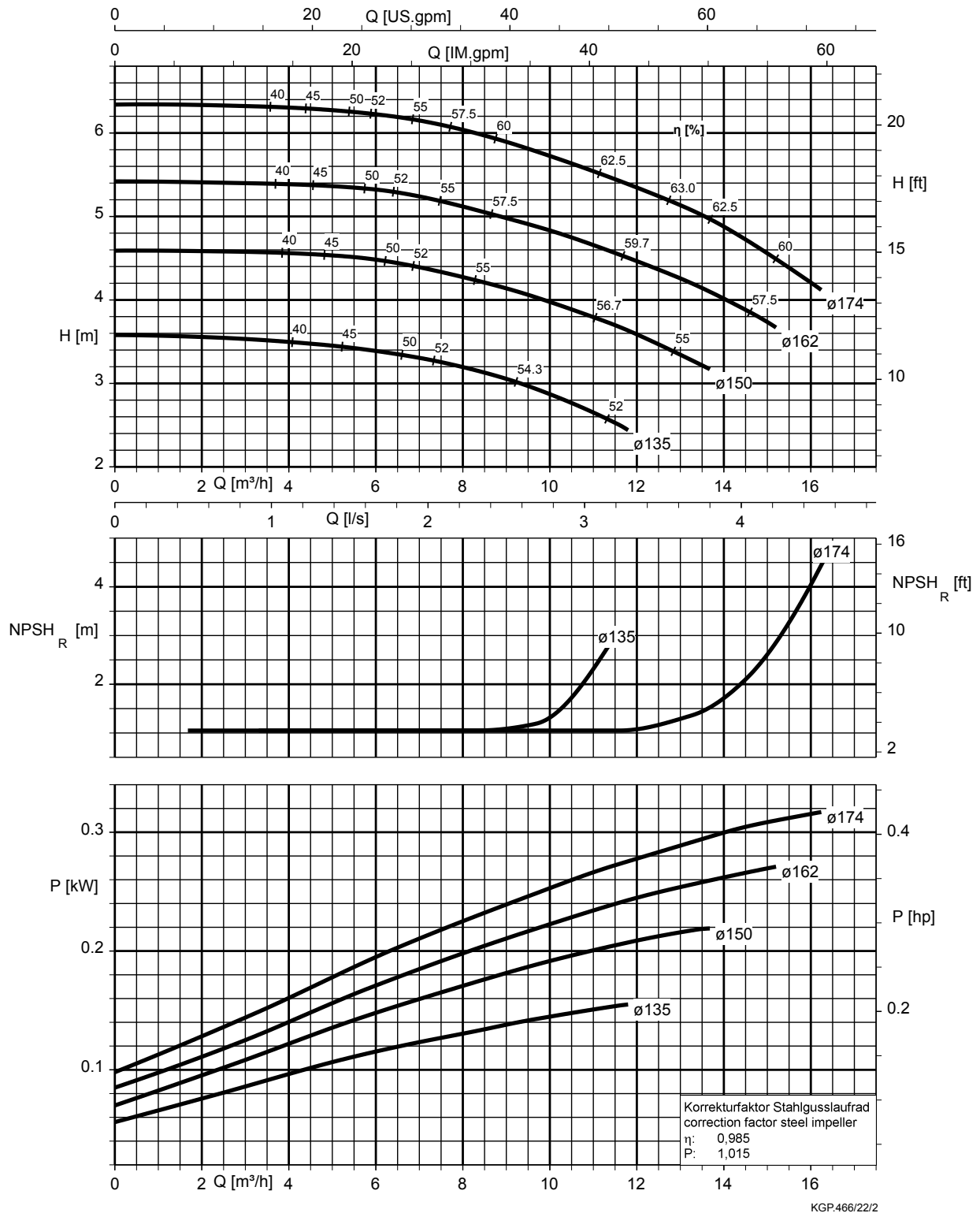
MegaCPK 050-032-125, n = 1160 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



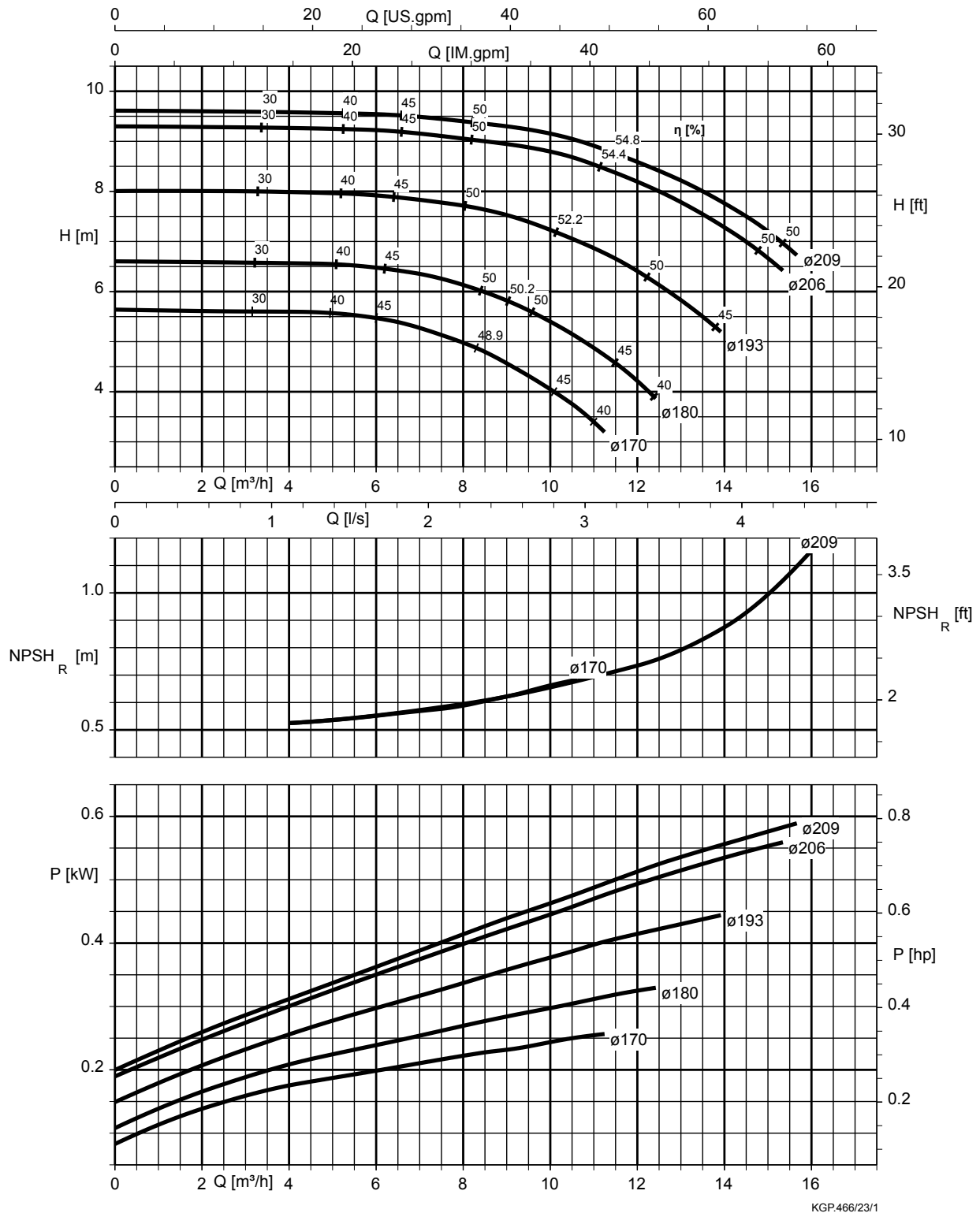
MegaCPK 050-032-160, n = 1160 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



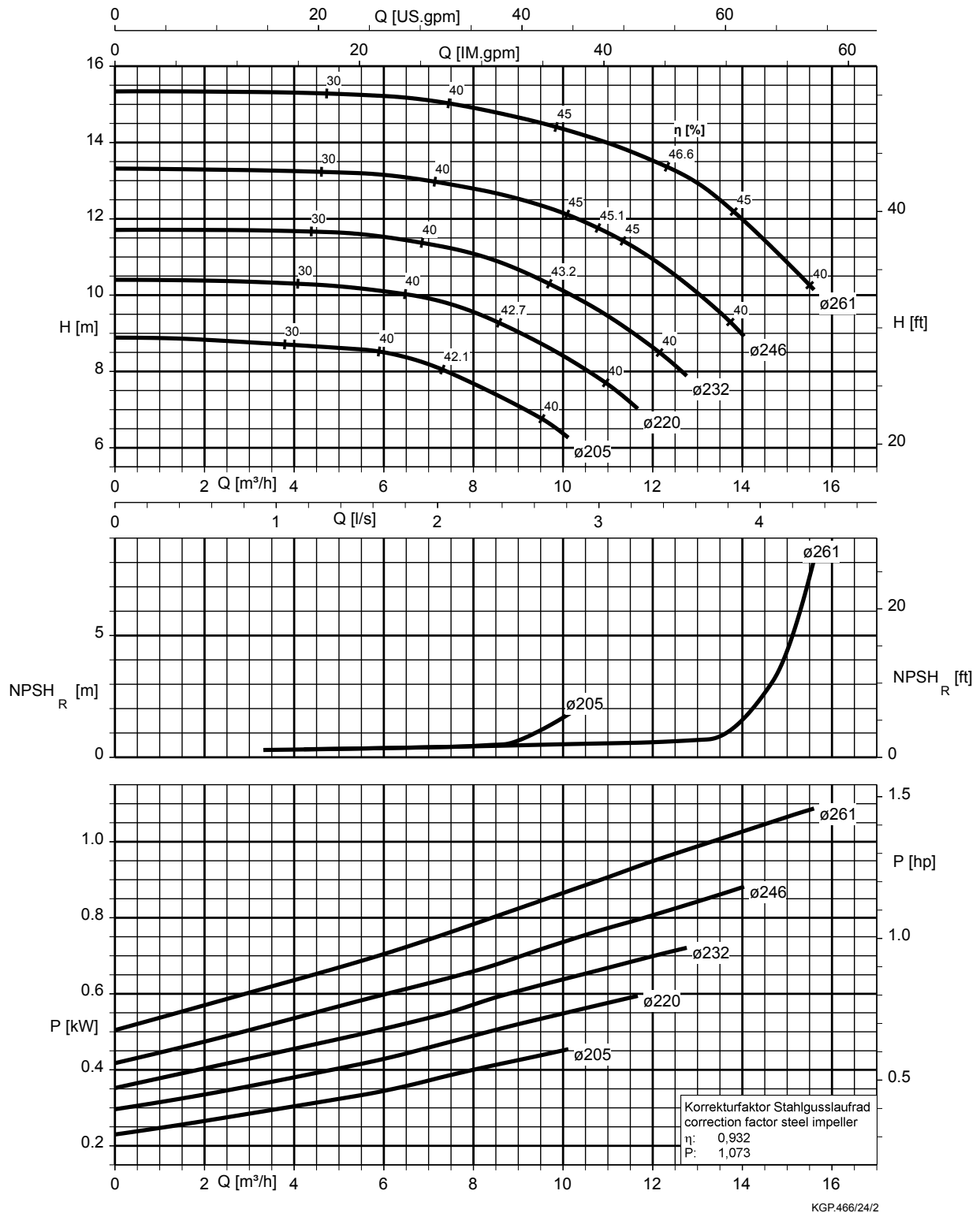
MegaCPK 050-032-200, n = 1160 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



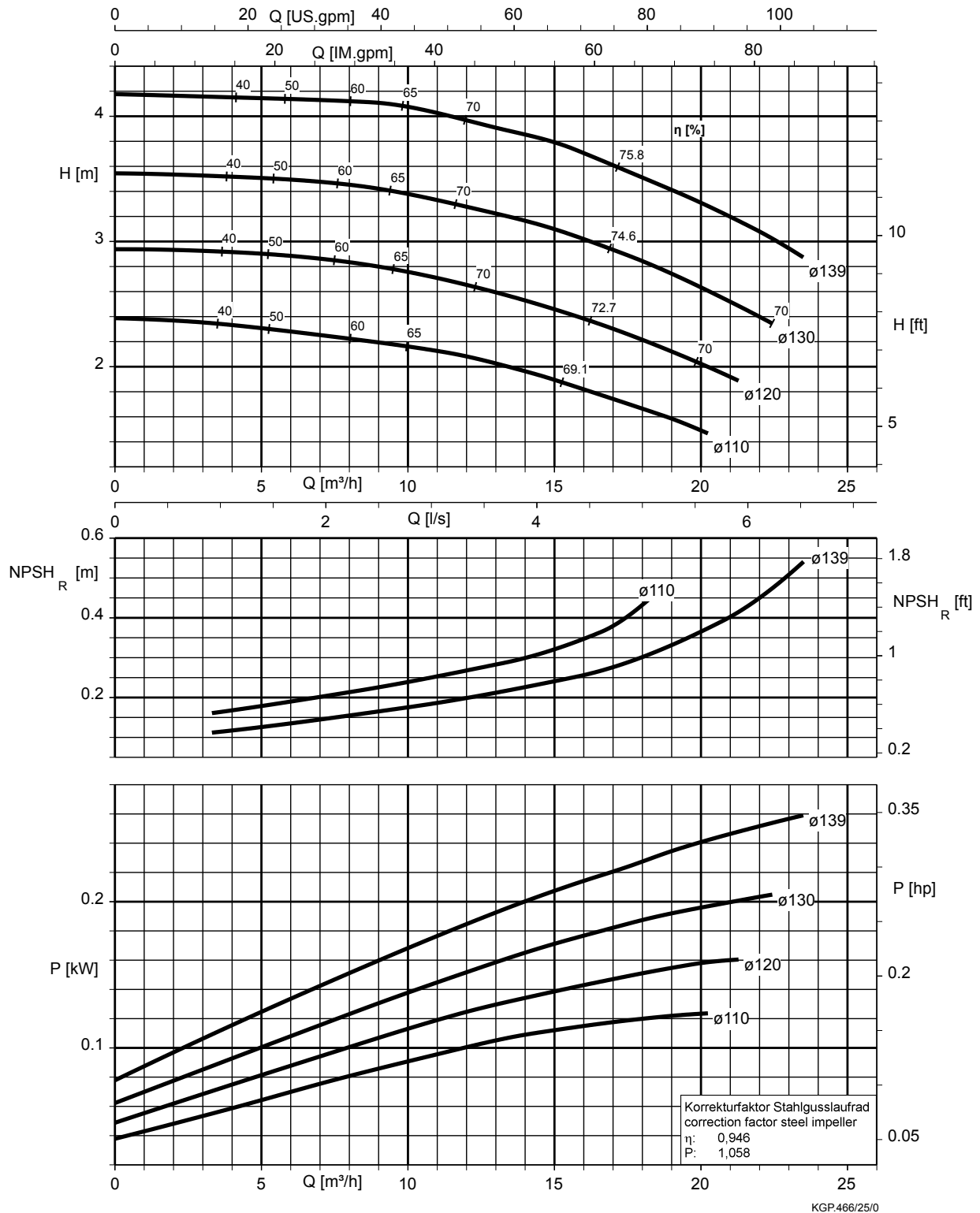
MegaCPK 050-032-250, n = 1160 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



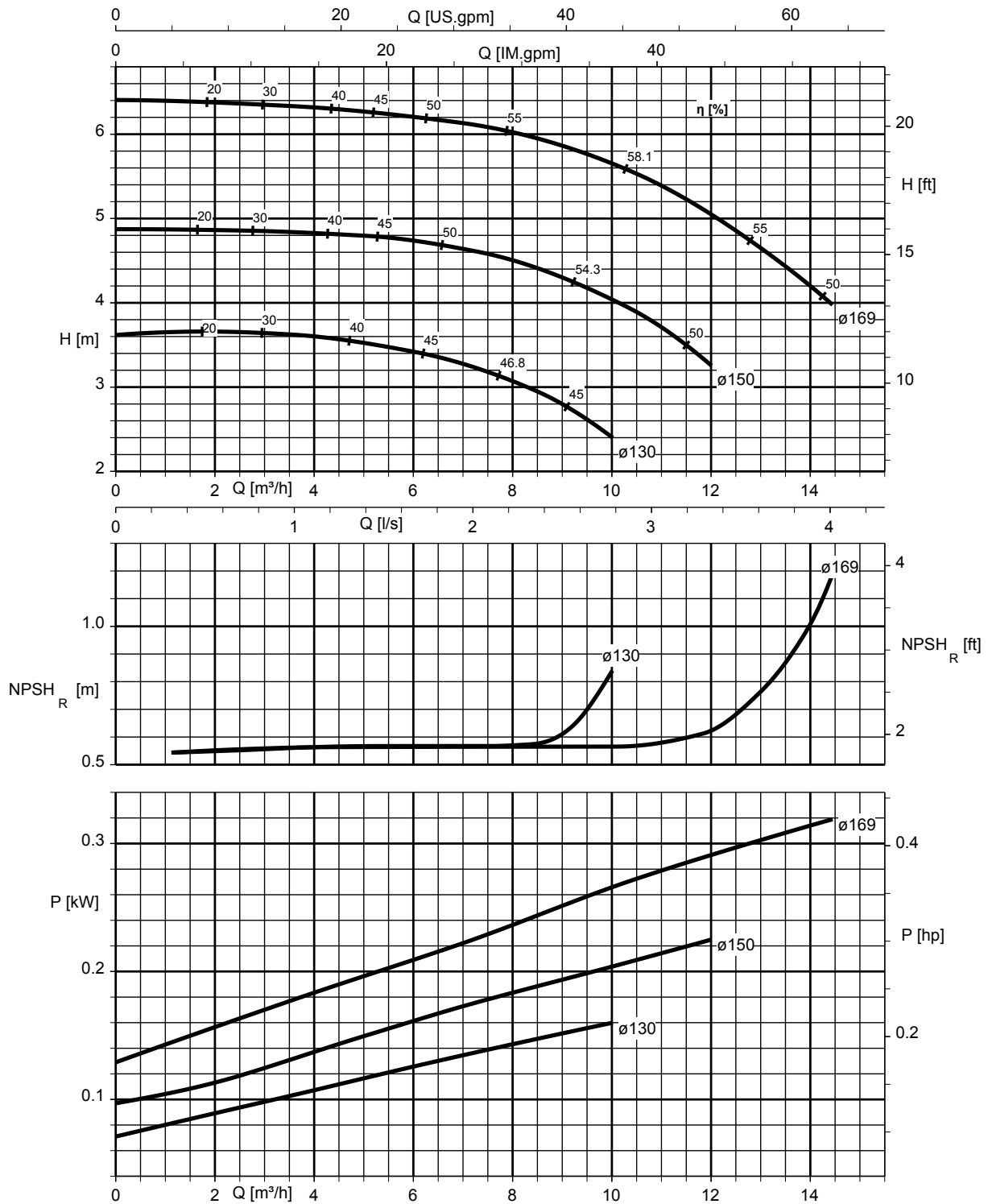
MegaCPK 065-040-125, n = 1160 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



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

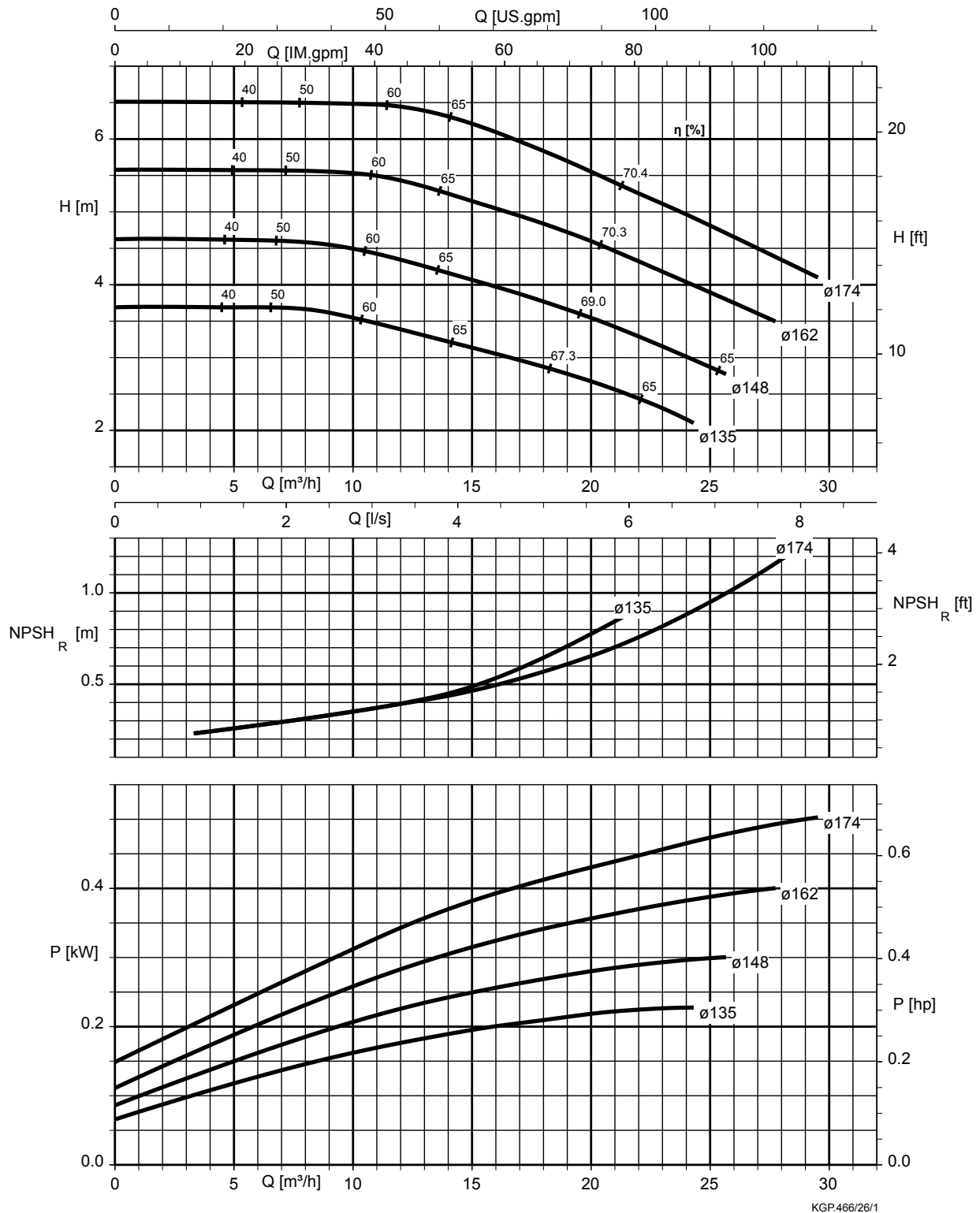
HPK-L, Magnochem, Magnochem-Bloc



KGP.466/11/0

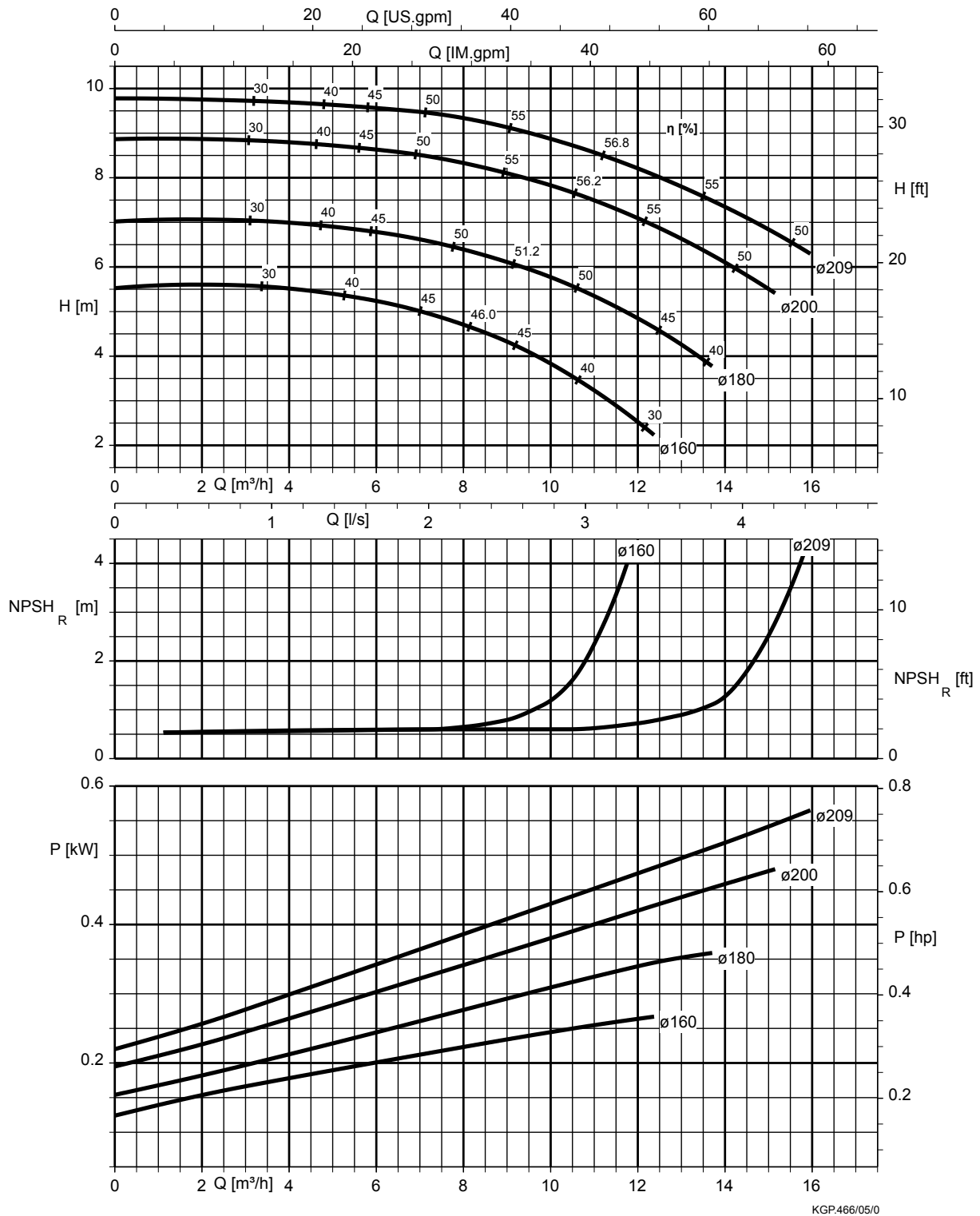
MegaCPK 065-040-160, n = 1160 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



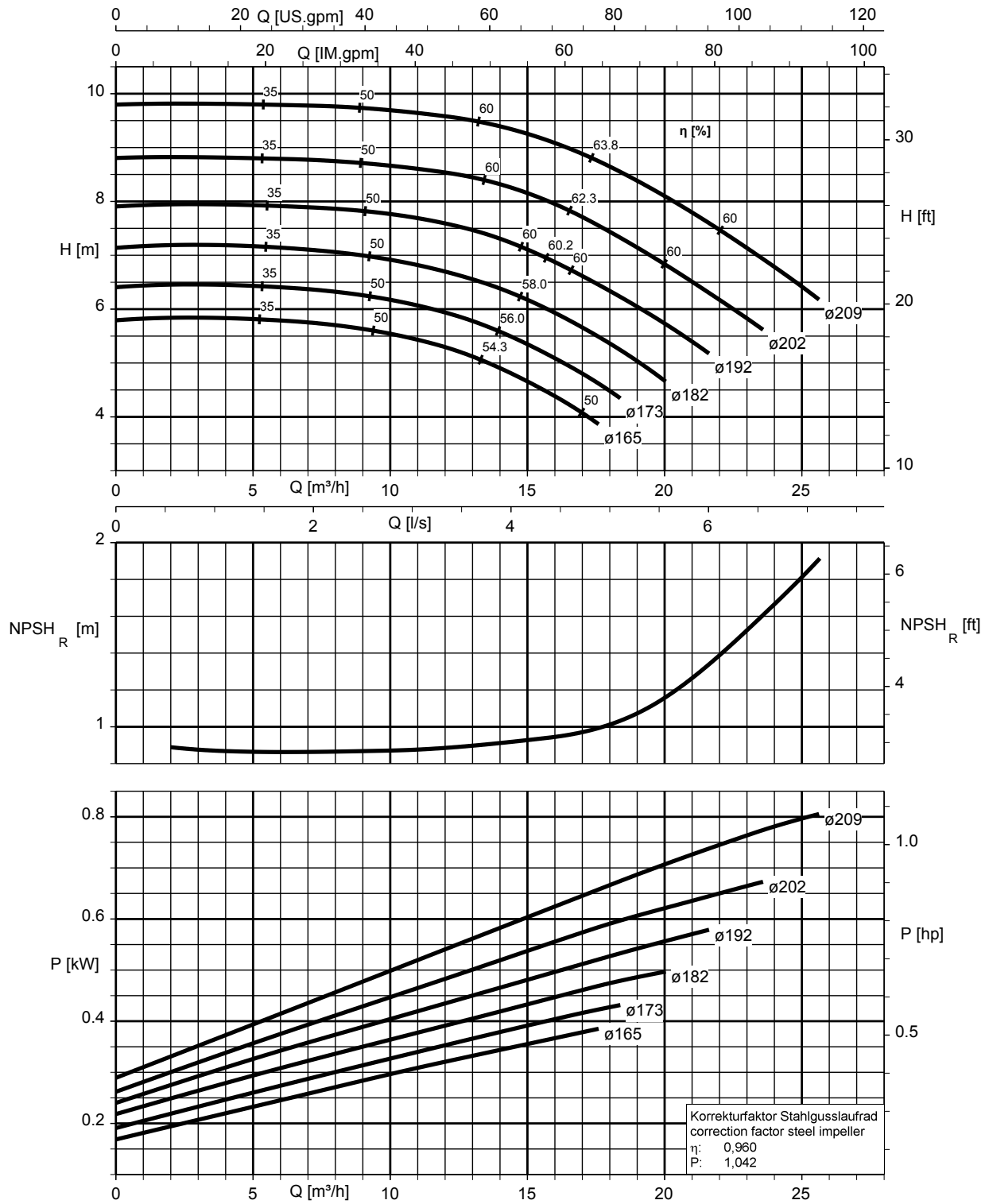
MegaCPK 065-040-200.1, n = 1160 rpm

Magnochem, Magnochem-Bloc



MegaCPK 065-040-200, n = 1160 rpm

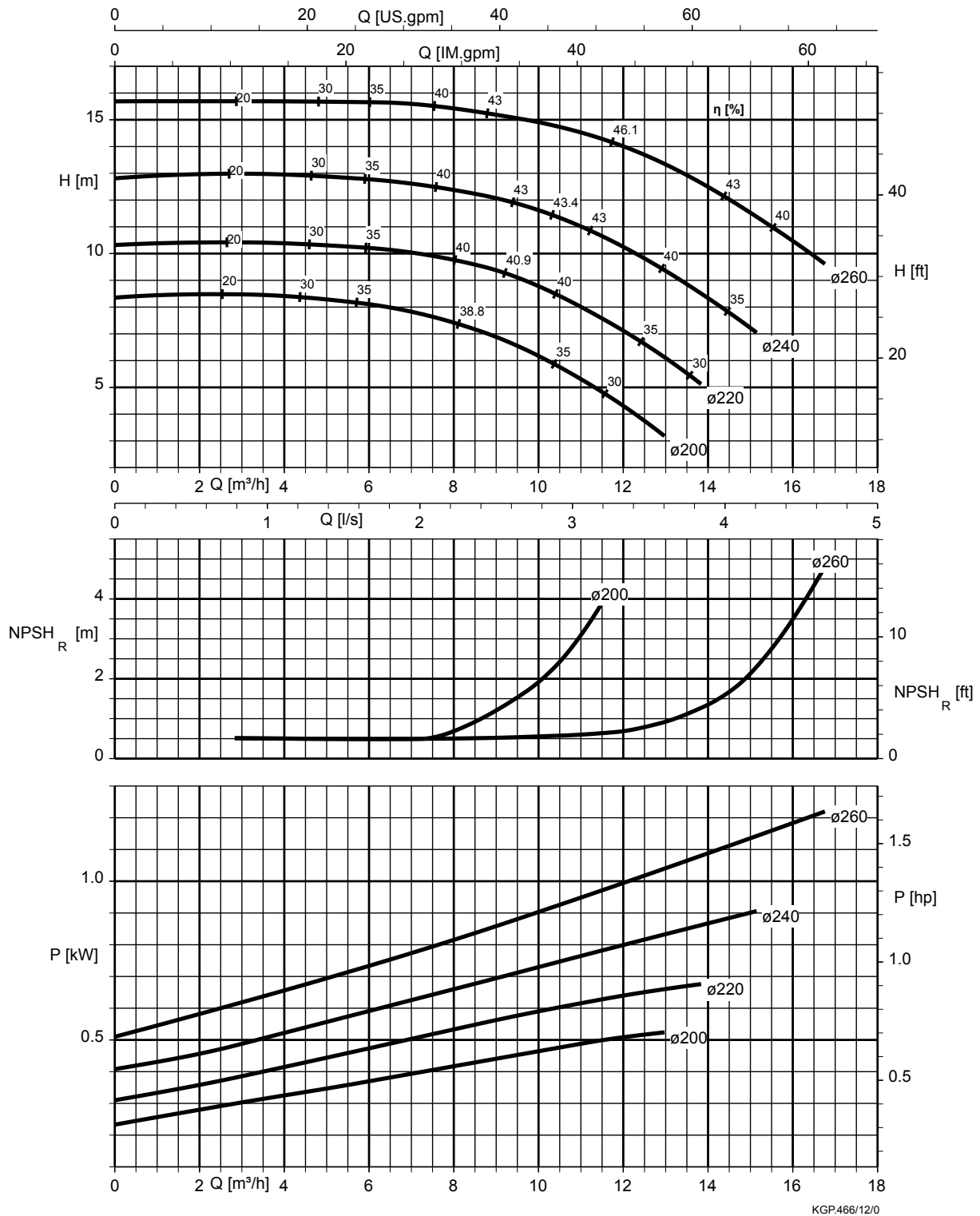
HPK-L, Magnochem, Magnochem-Bloc, Meganorm



KGP.466/27/0

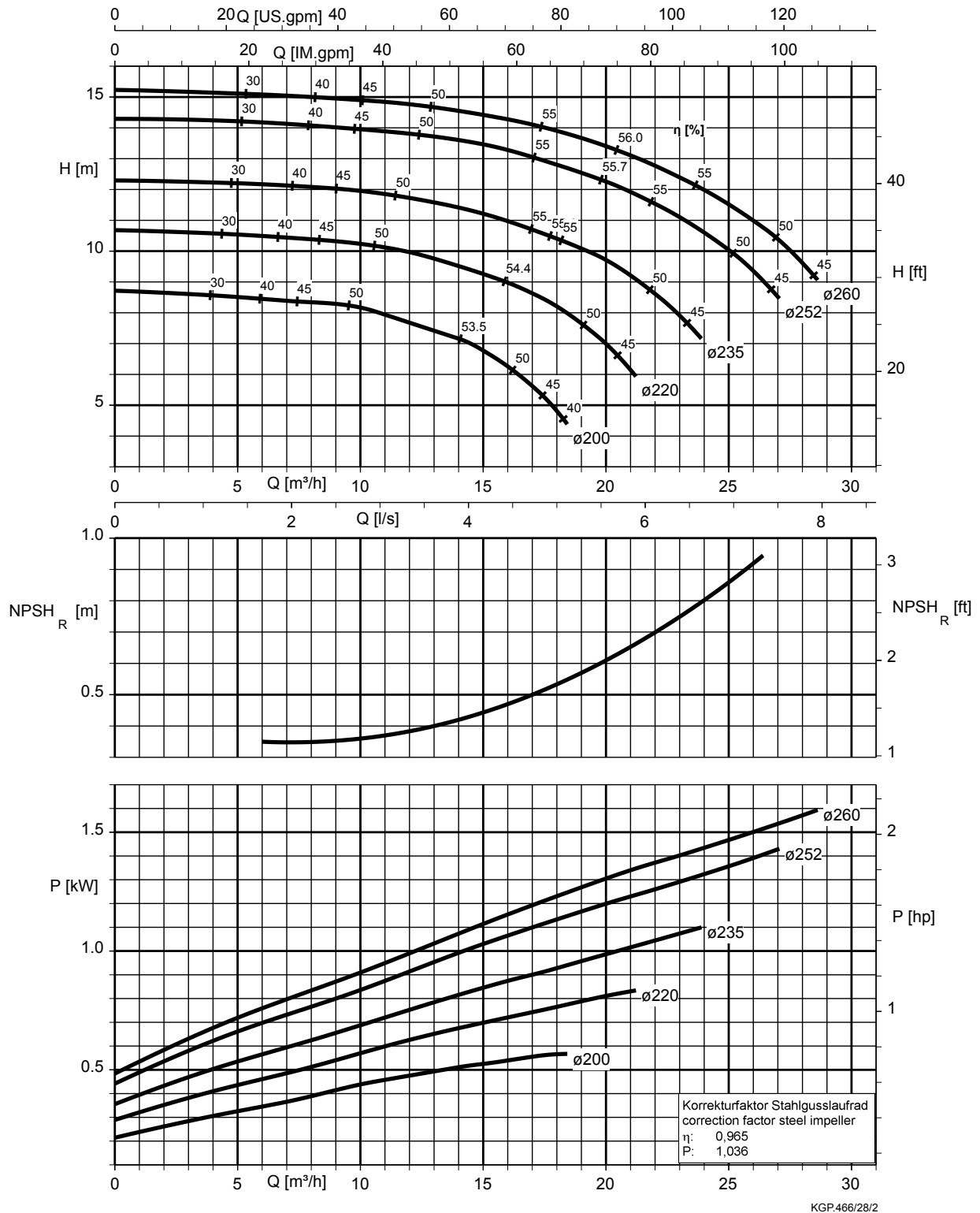
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HPK-L, Magnochem, Magnochem-Bloc



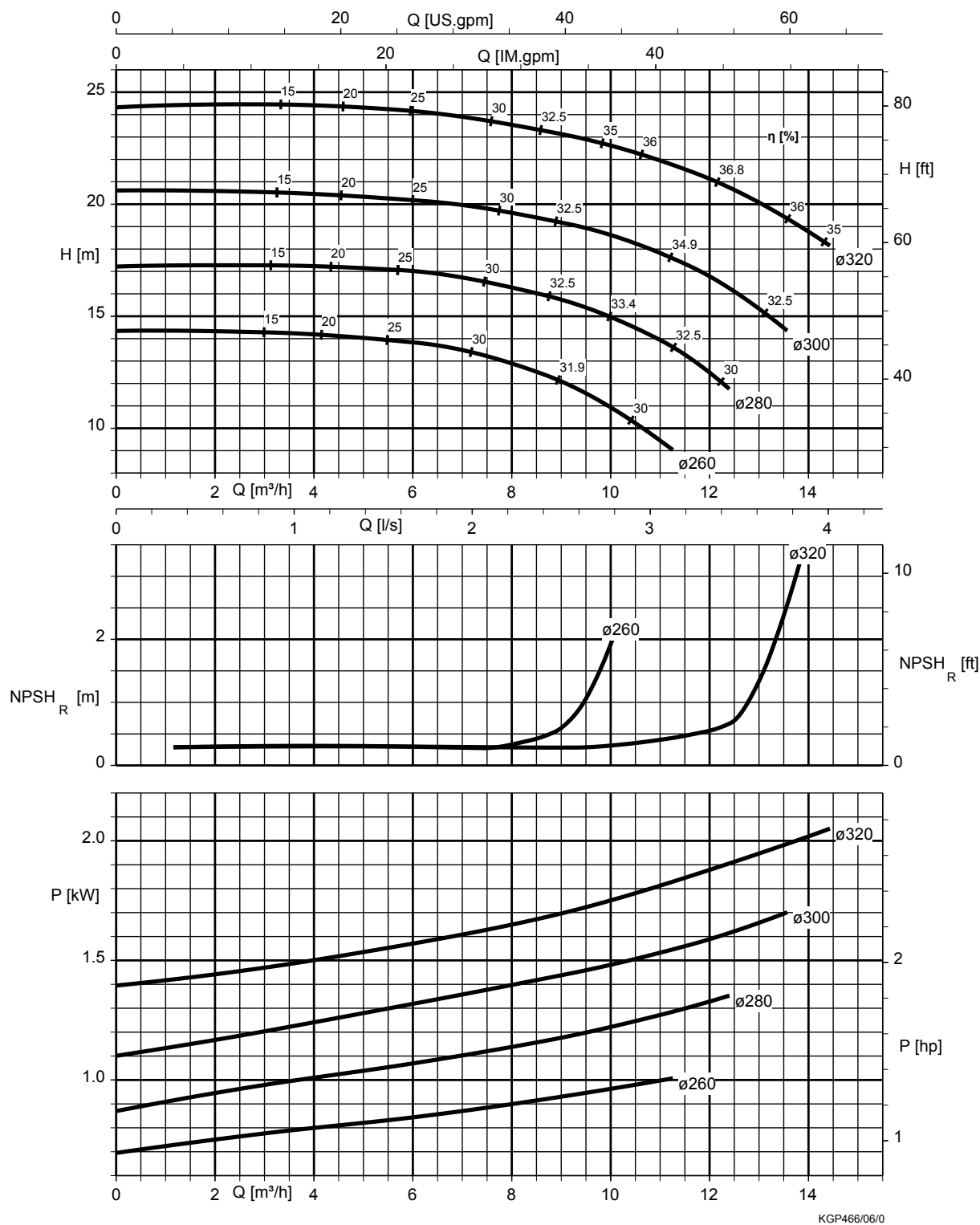
MegaCPK 065-040-250, n = 1160 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



MegaCPK 065-040-315.1, n = 1160 rpm

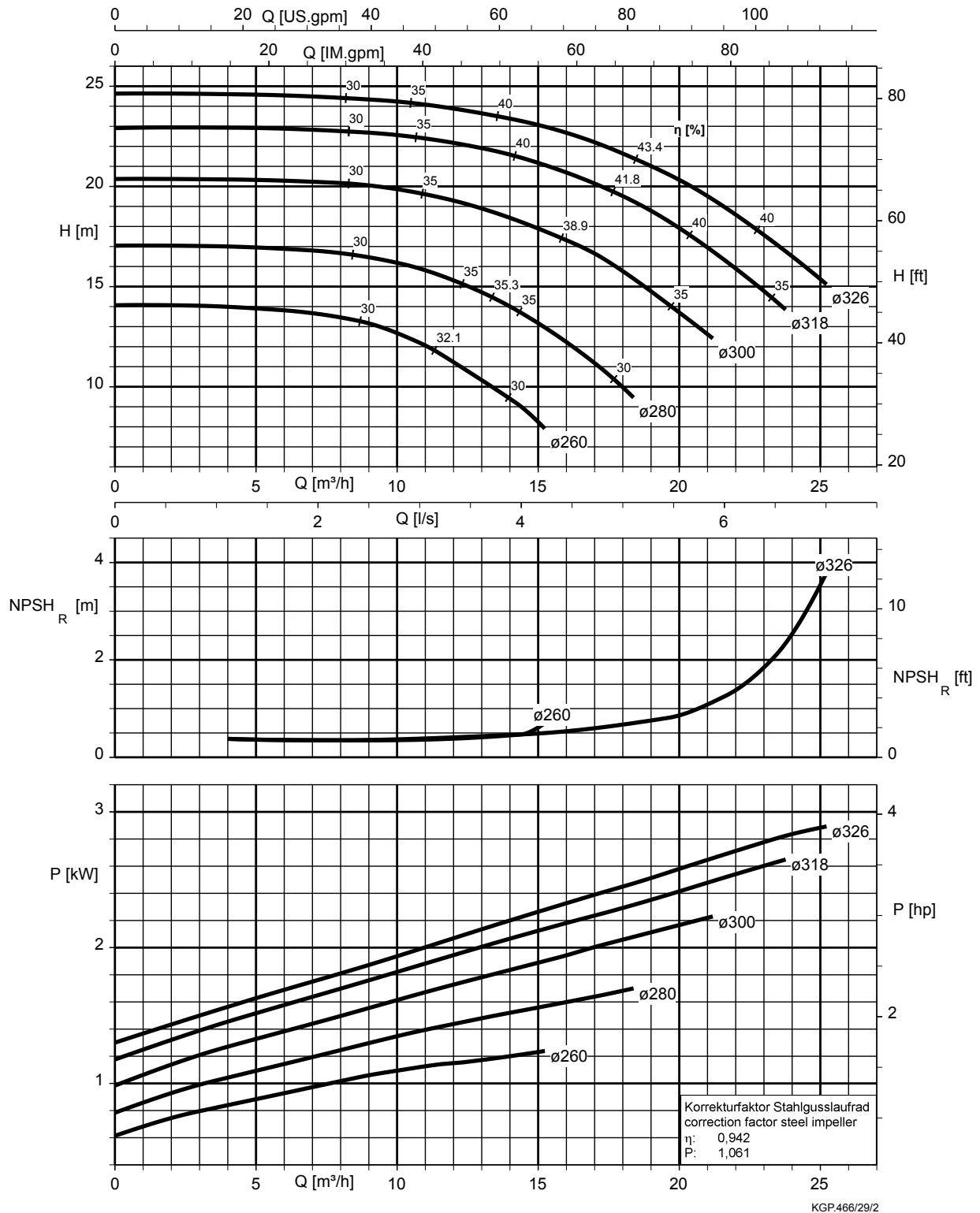
Magnochem, Magnochem-Bloc



KGP466/06/0

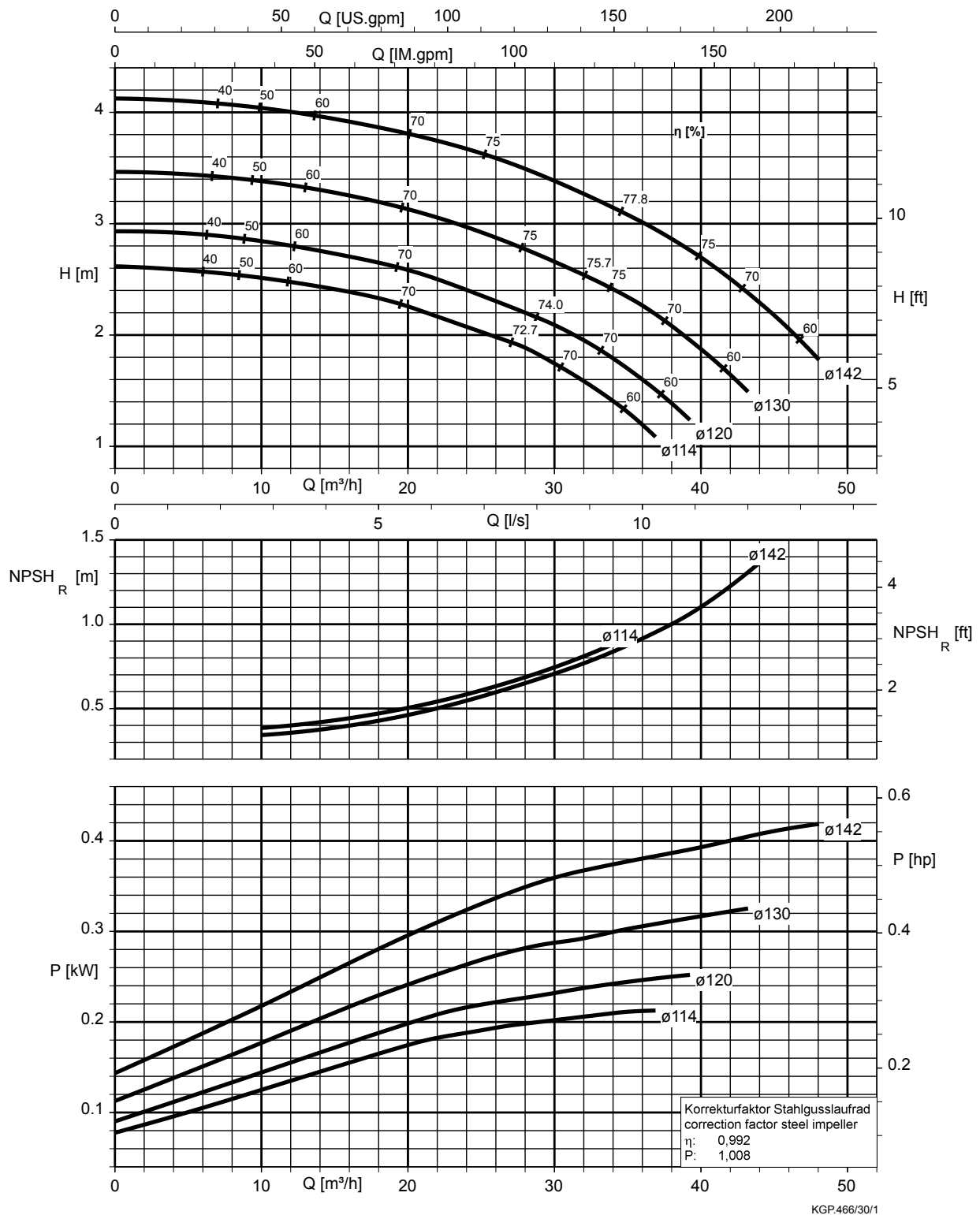
MegaCPK 065-040-315, n = 1160 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



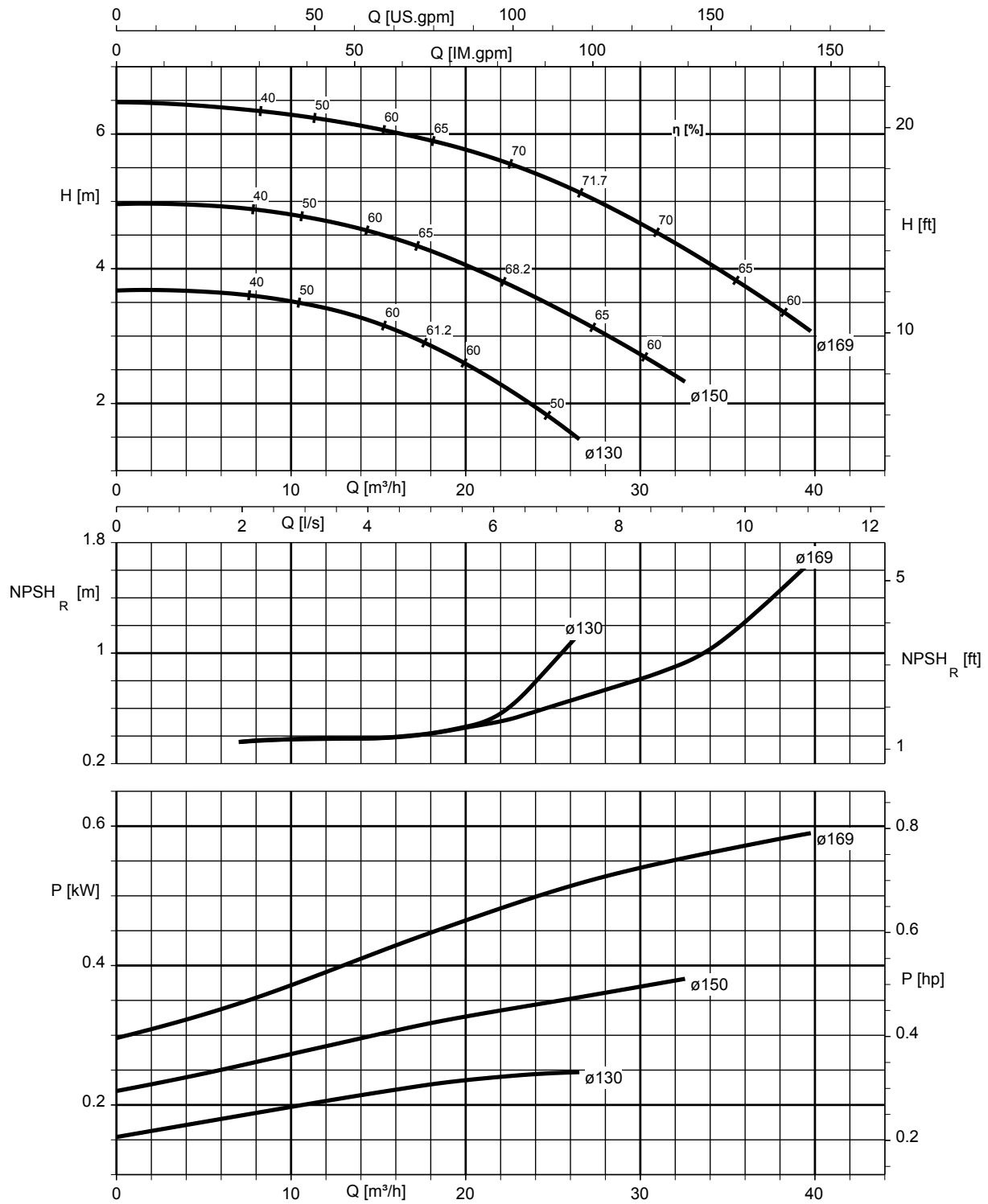
MegaCPK 080-050-125, n = 1160 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



MegaCPK 080-050-160.1, n = 1160 rpm

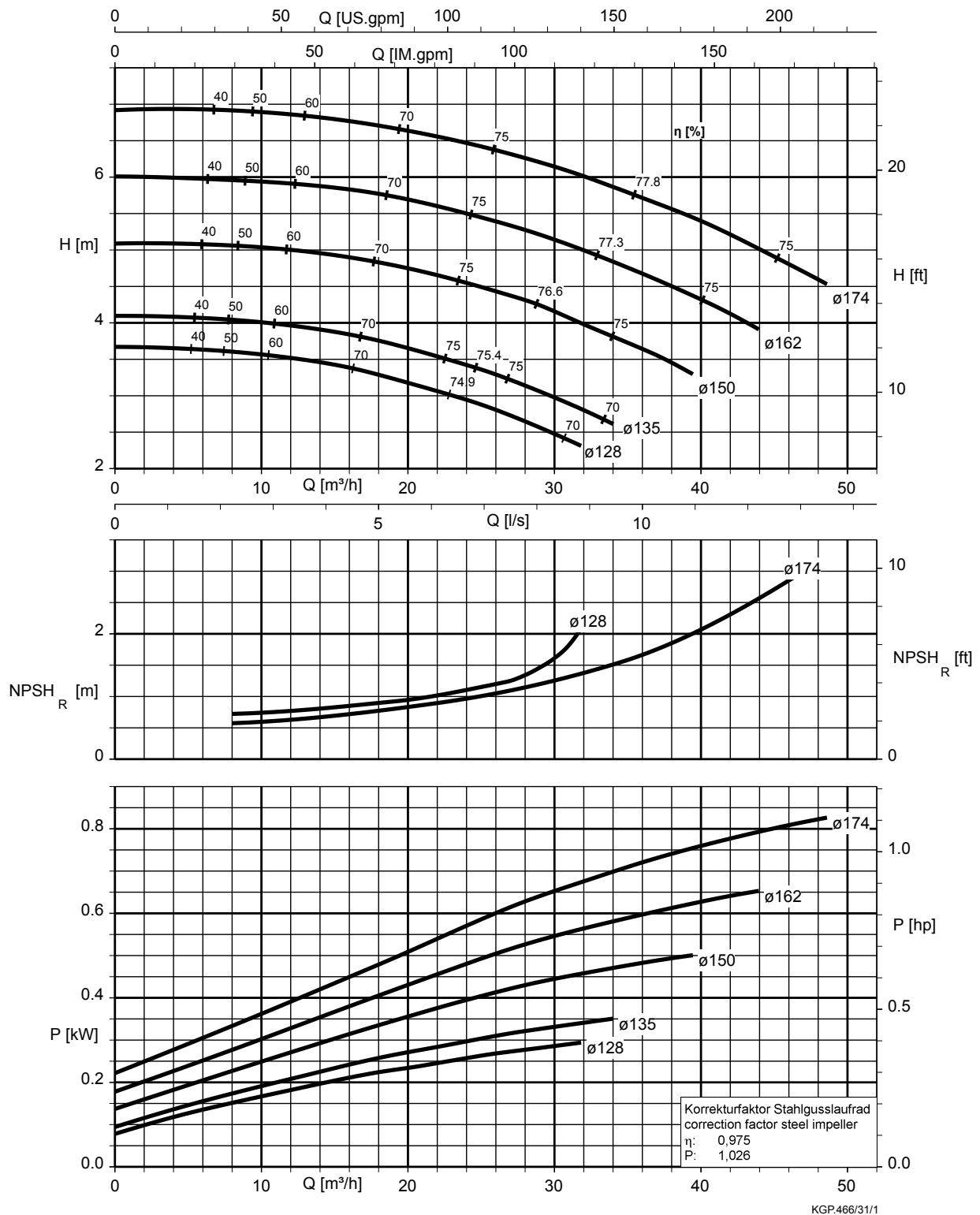
Magnochem, Magnochem-Bloc



KGP.466/08/0

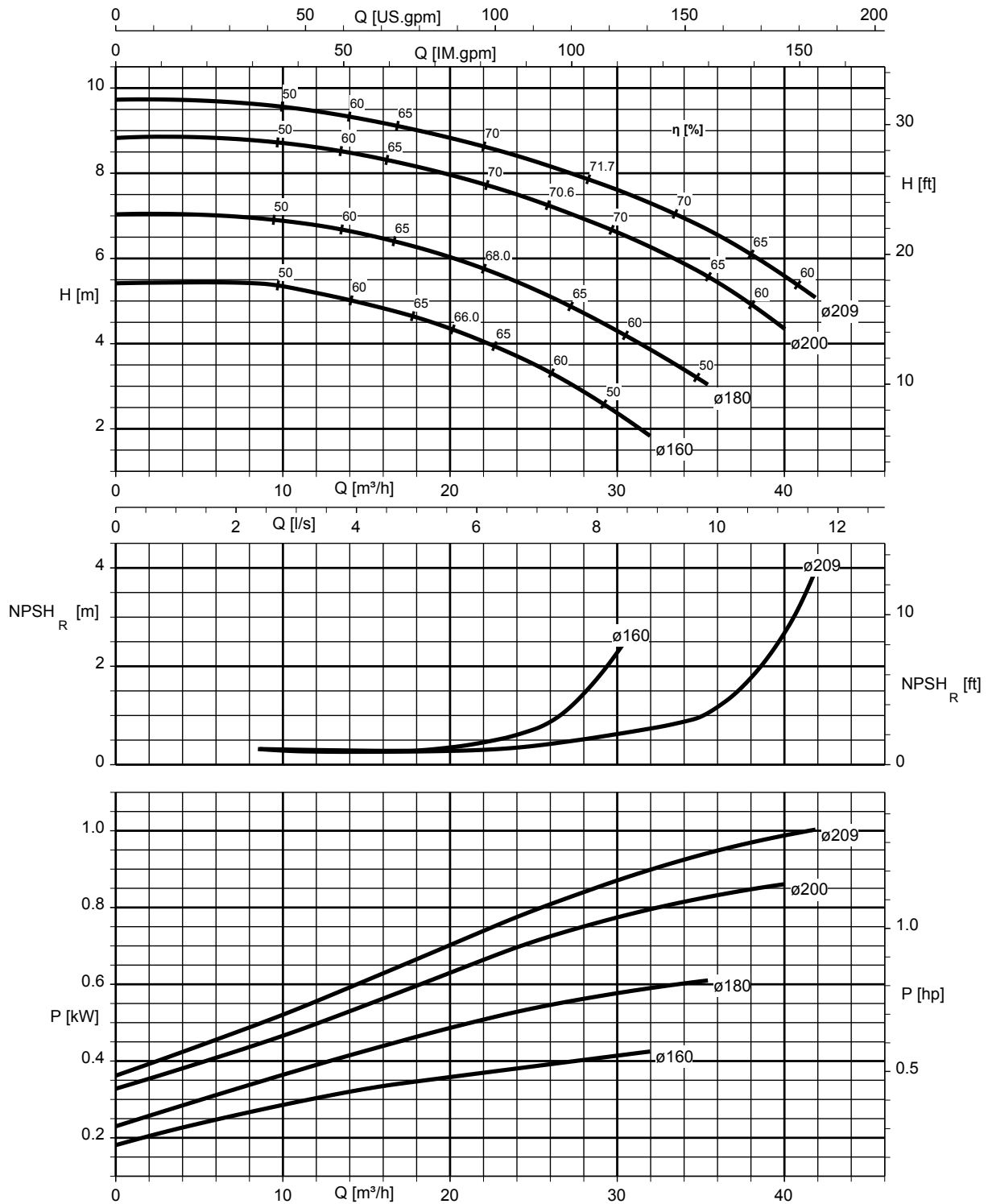
MegaCPK 080-050-160, n = 1160 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



MegaCPK 080-050-200.1, n = 1160 rpm

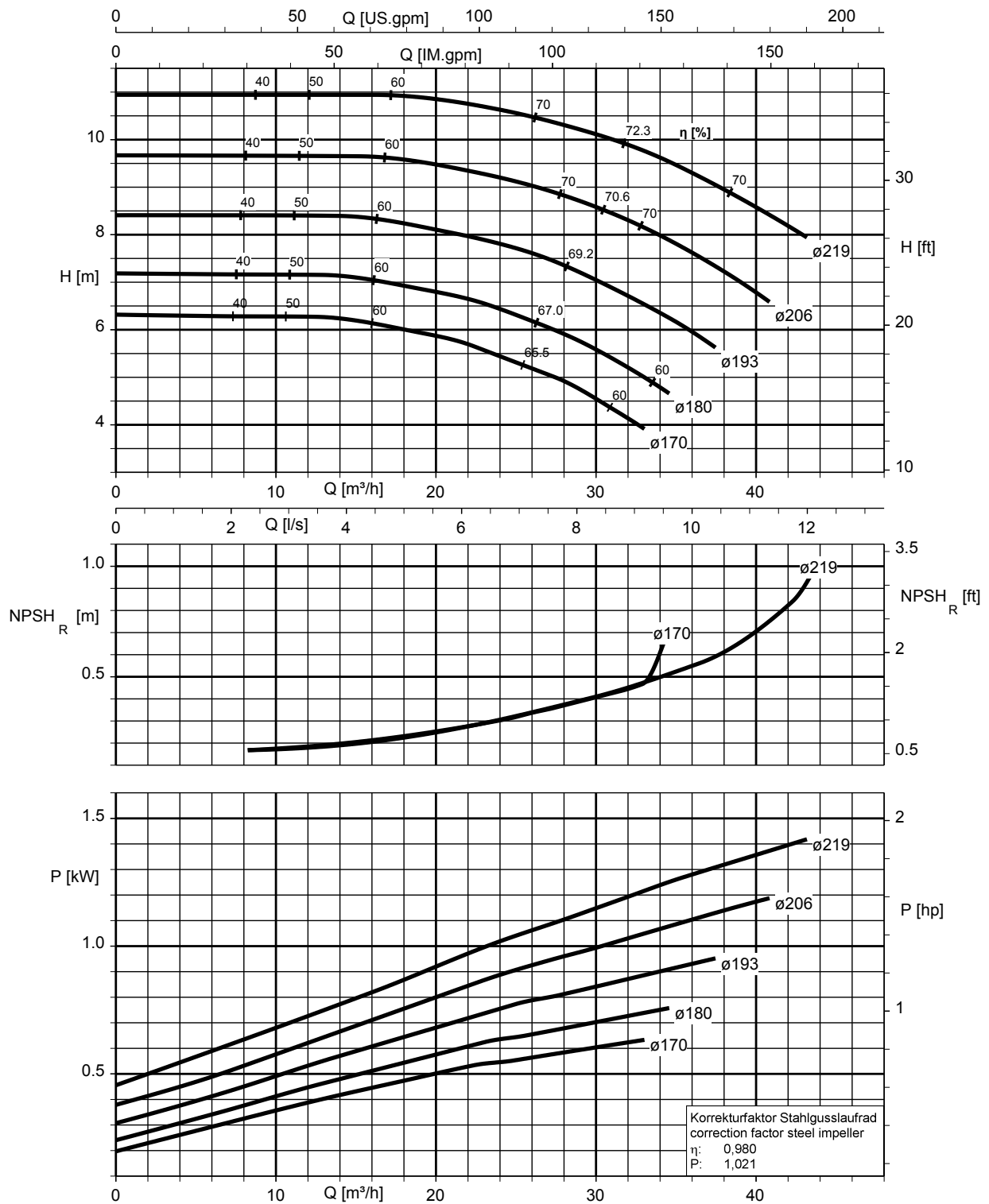
Magnochem, Magnochem-Bloc



KGP.466/09/0

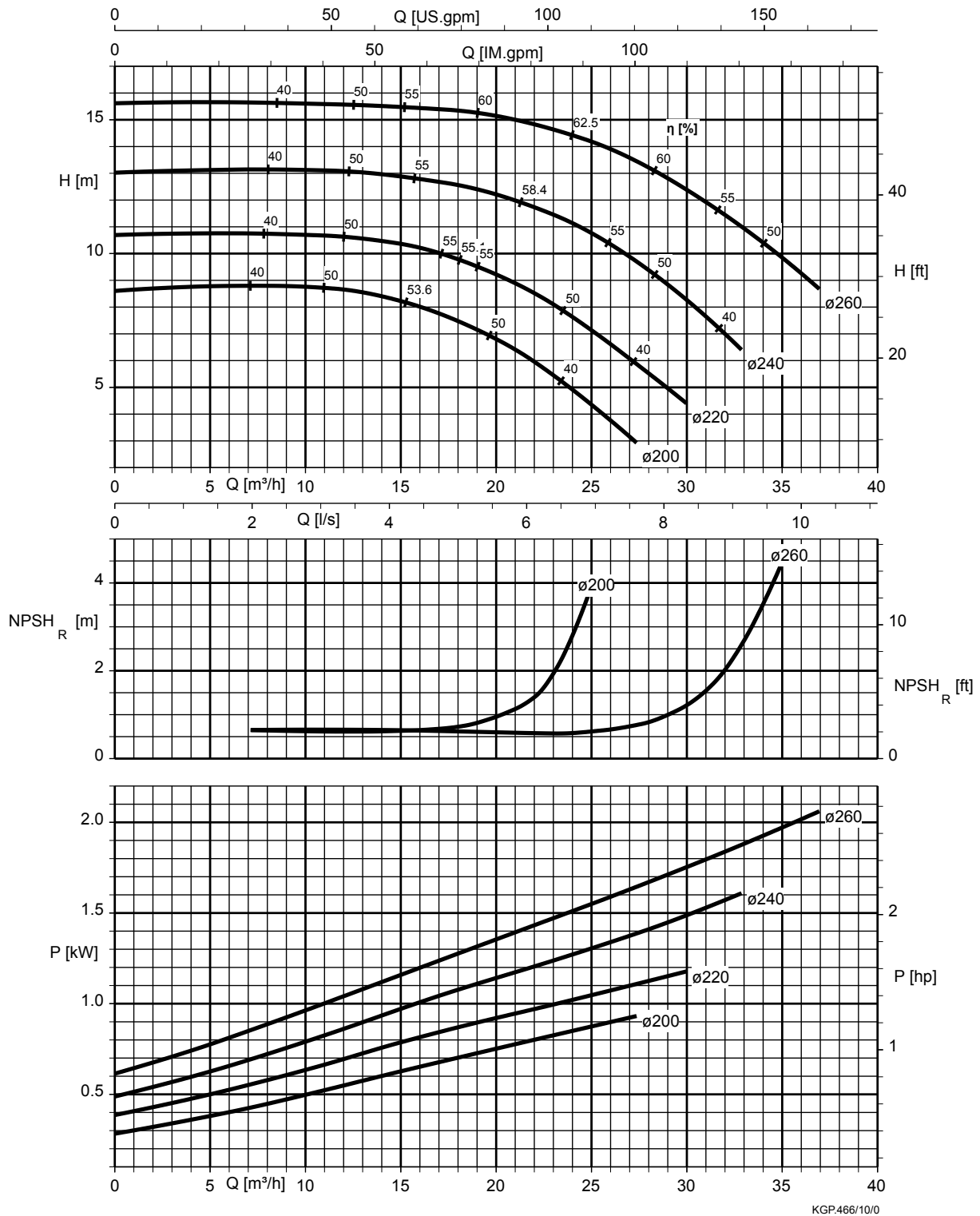
MegaCPK 080-050-200, n = 1160 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



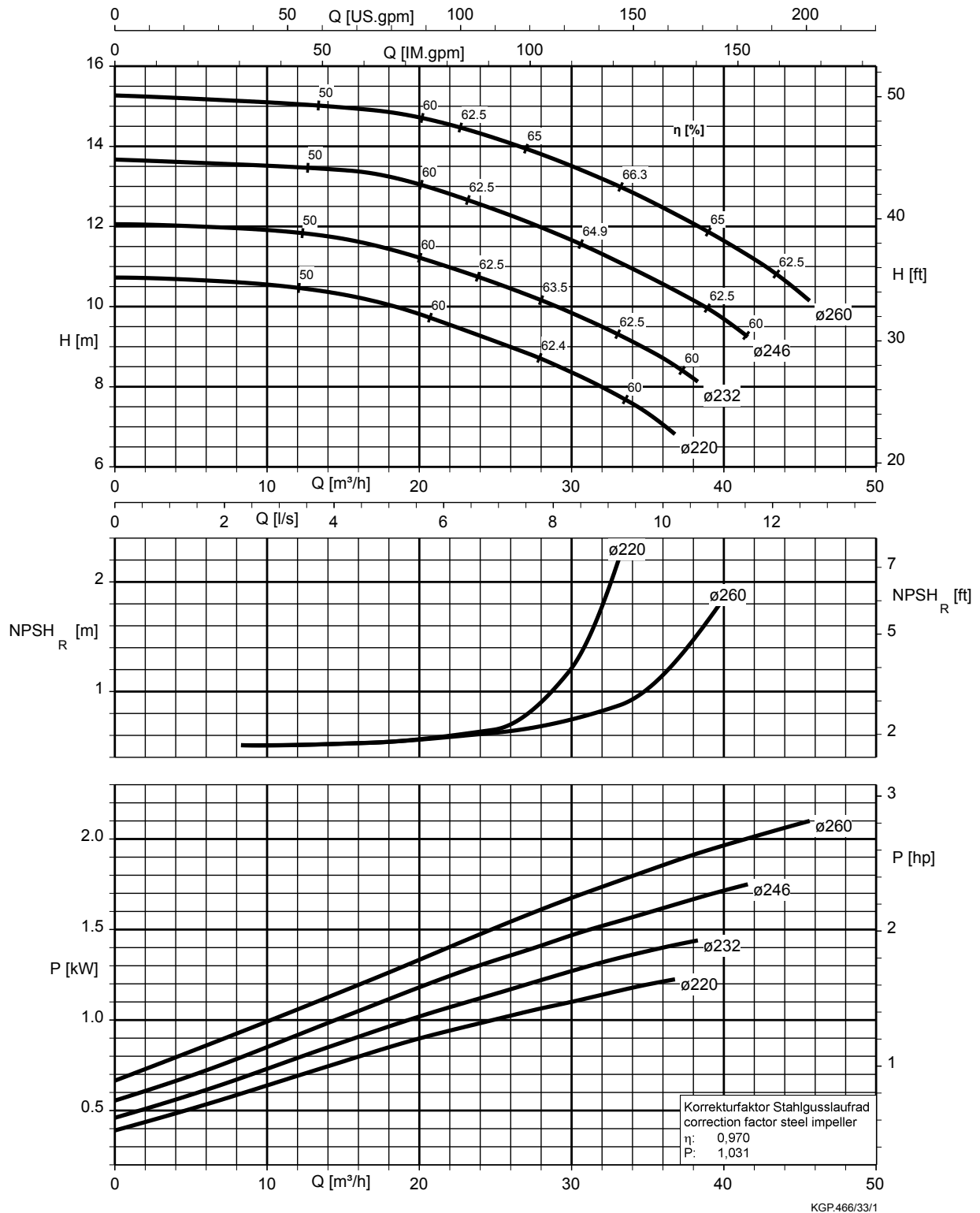
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Magnochem, Magnochem-Bloc



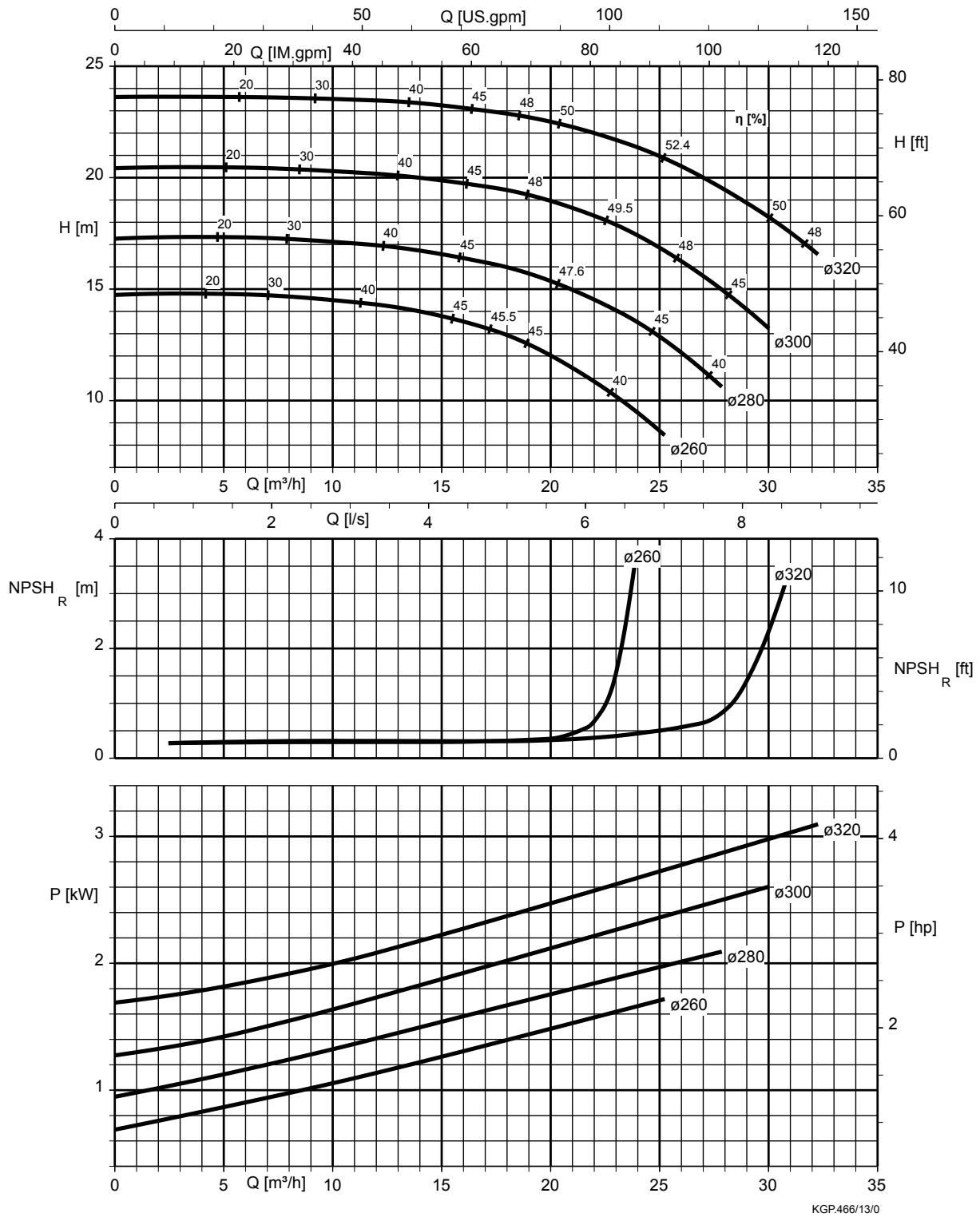
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HPK-L, Magnochem, Magnochem-Bloc, Meganorm



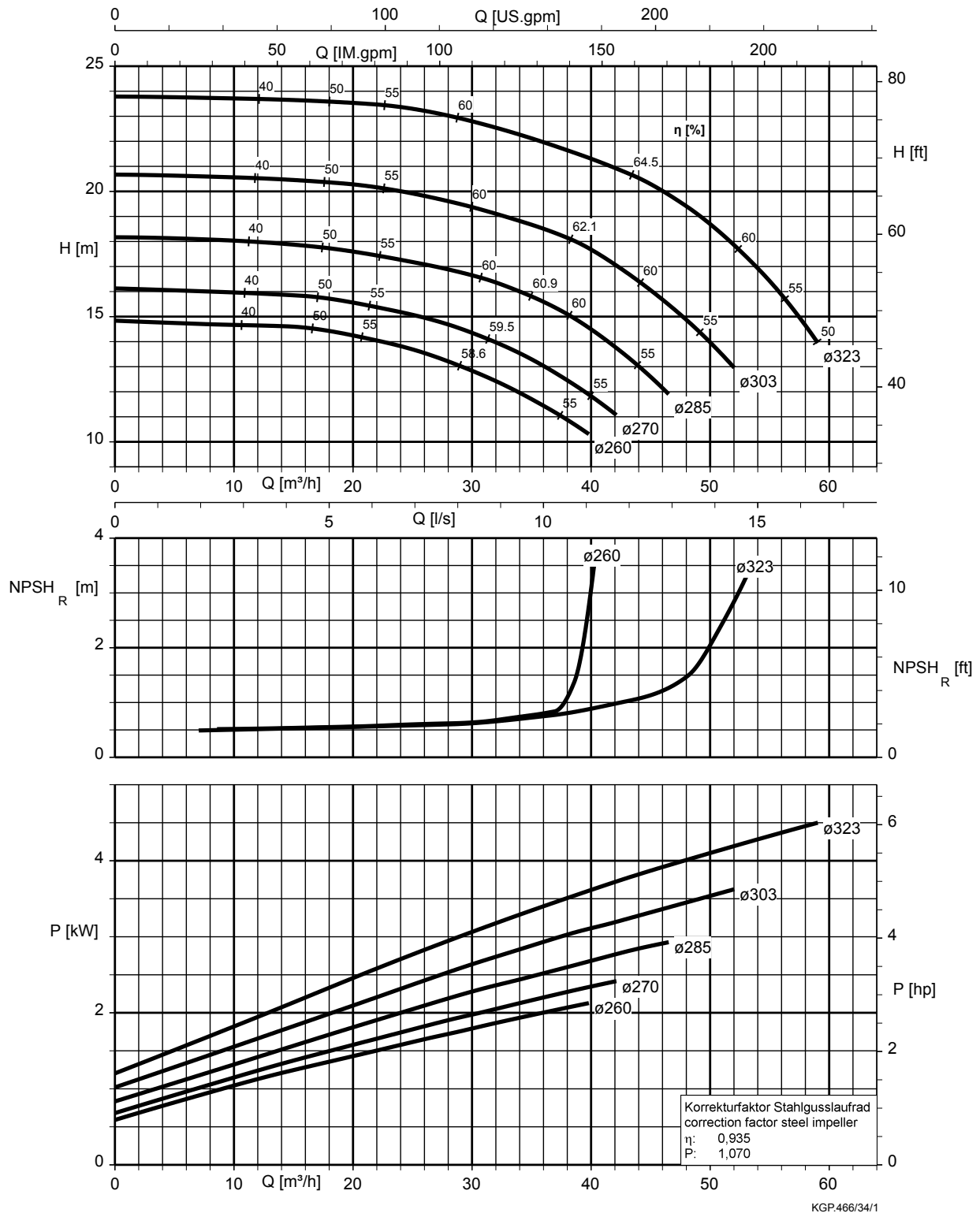
MegaCPK 080-050-315.1, n = 1160 rpm

HPK-L, Magnochem, Magnochem-Bloc



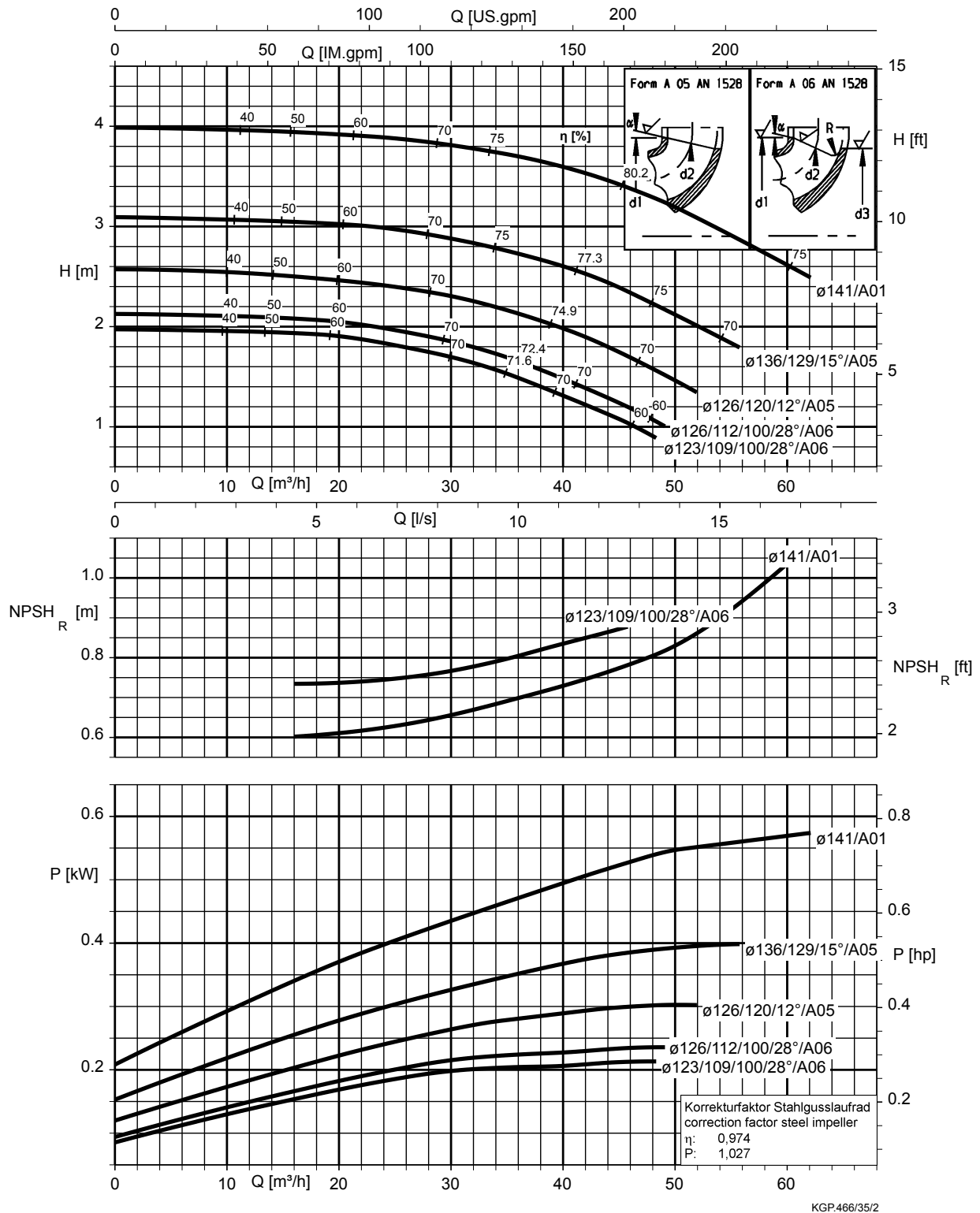
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HPK-L, Magnochem, Magnochem-Bloc, Meganorm



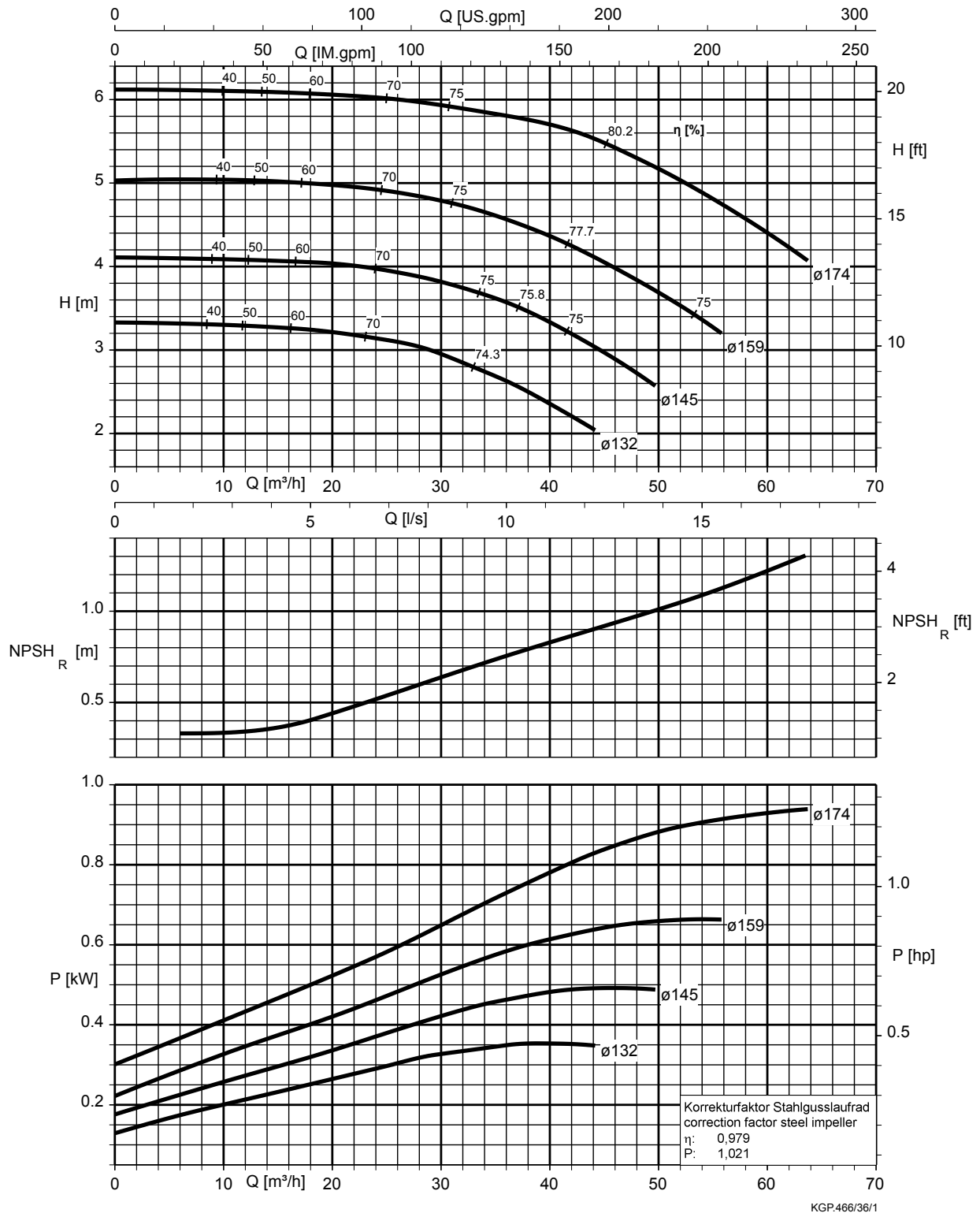
MegaCPK 100-065-125, n = 1160 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



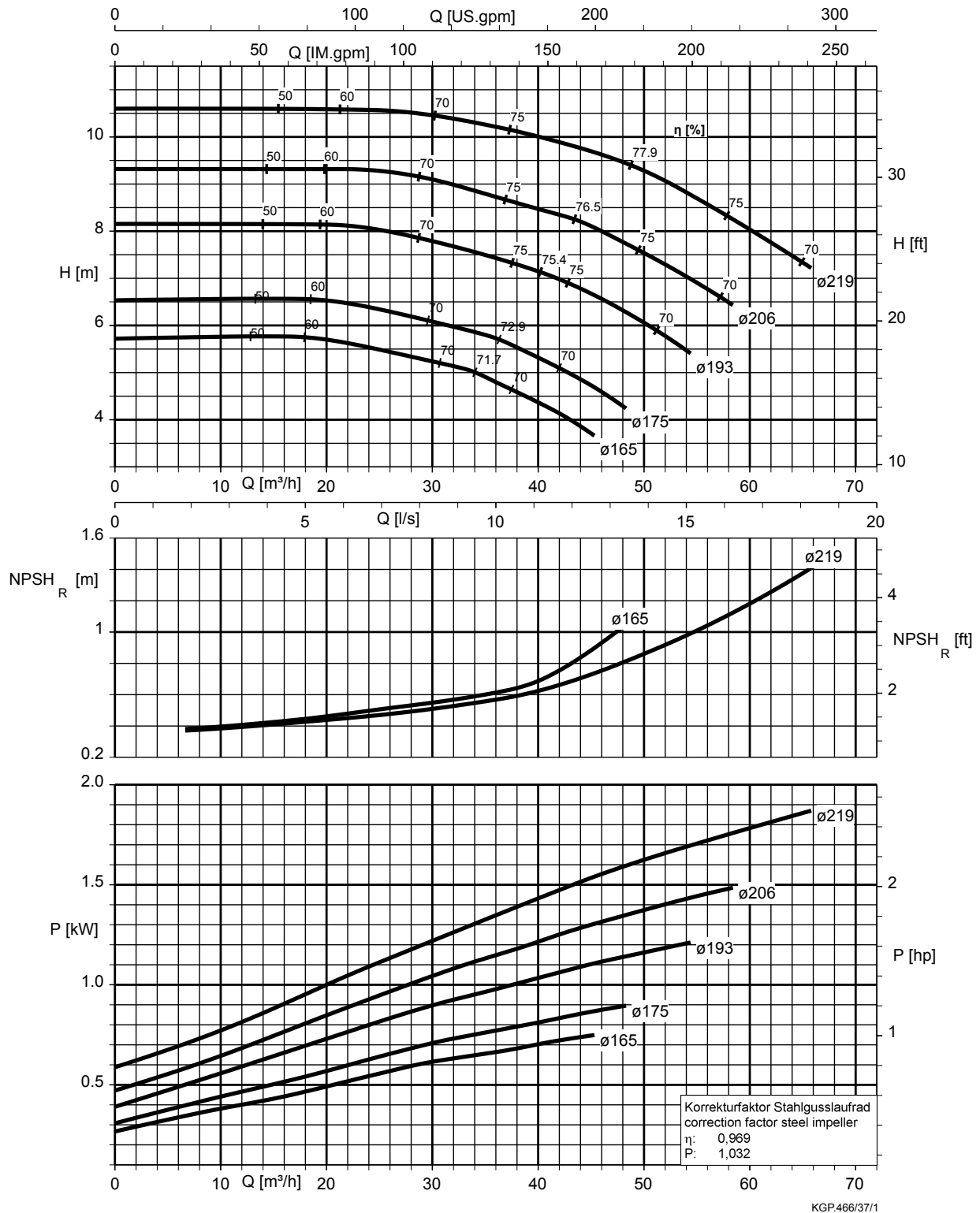
MegaCPK 100-065-160, n = 1160 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



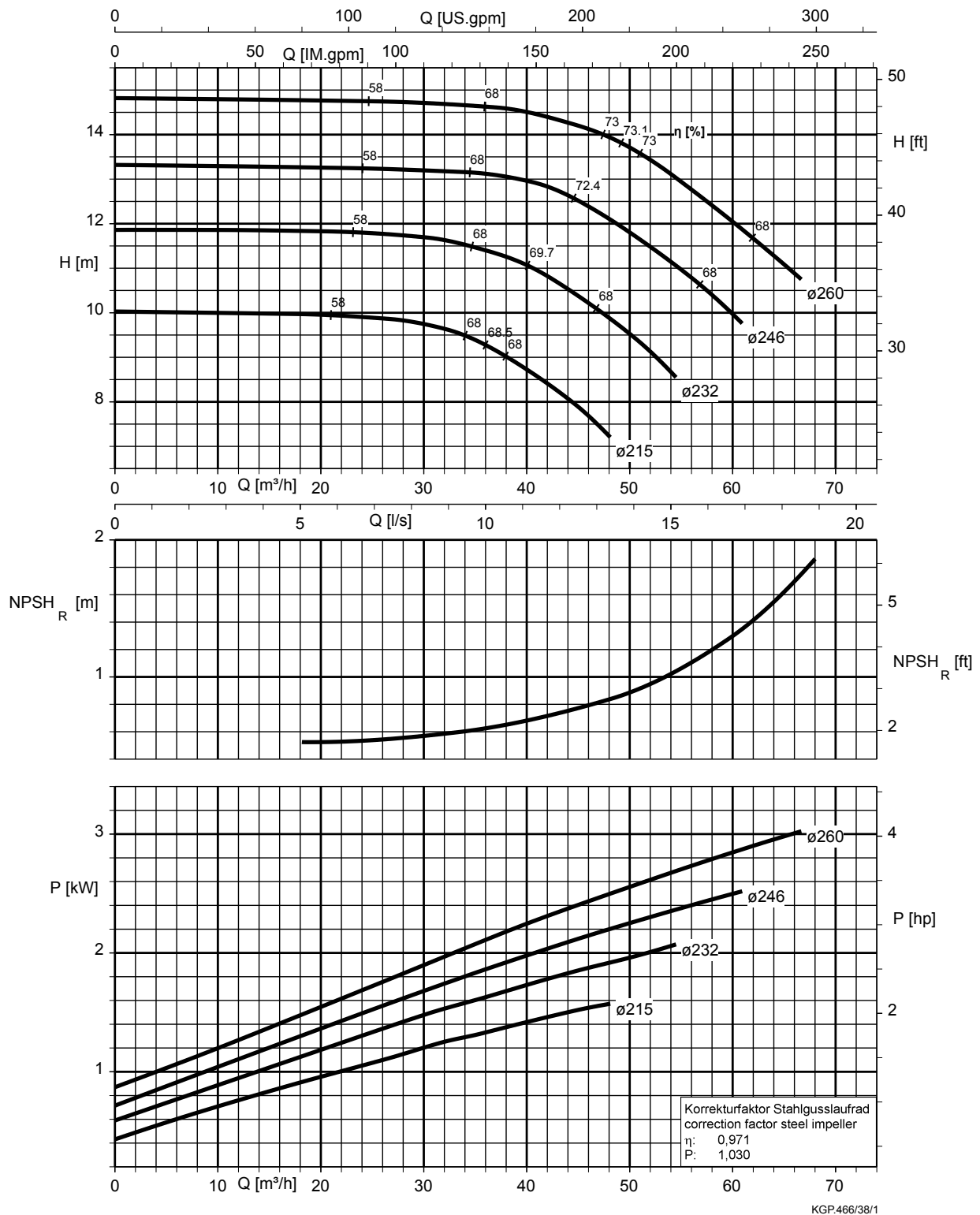
MegaCPK 100-065-200, n = 1160 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



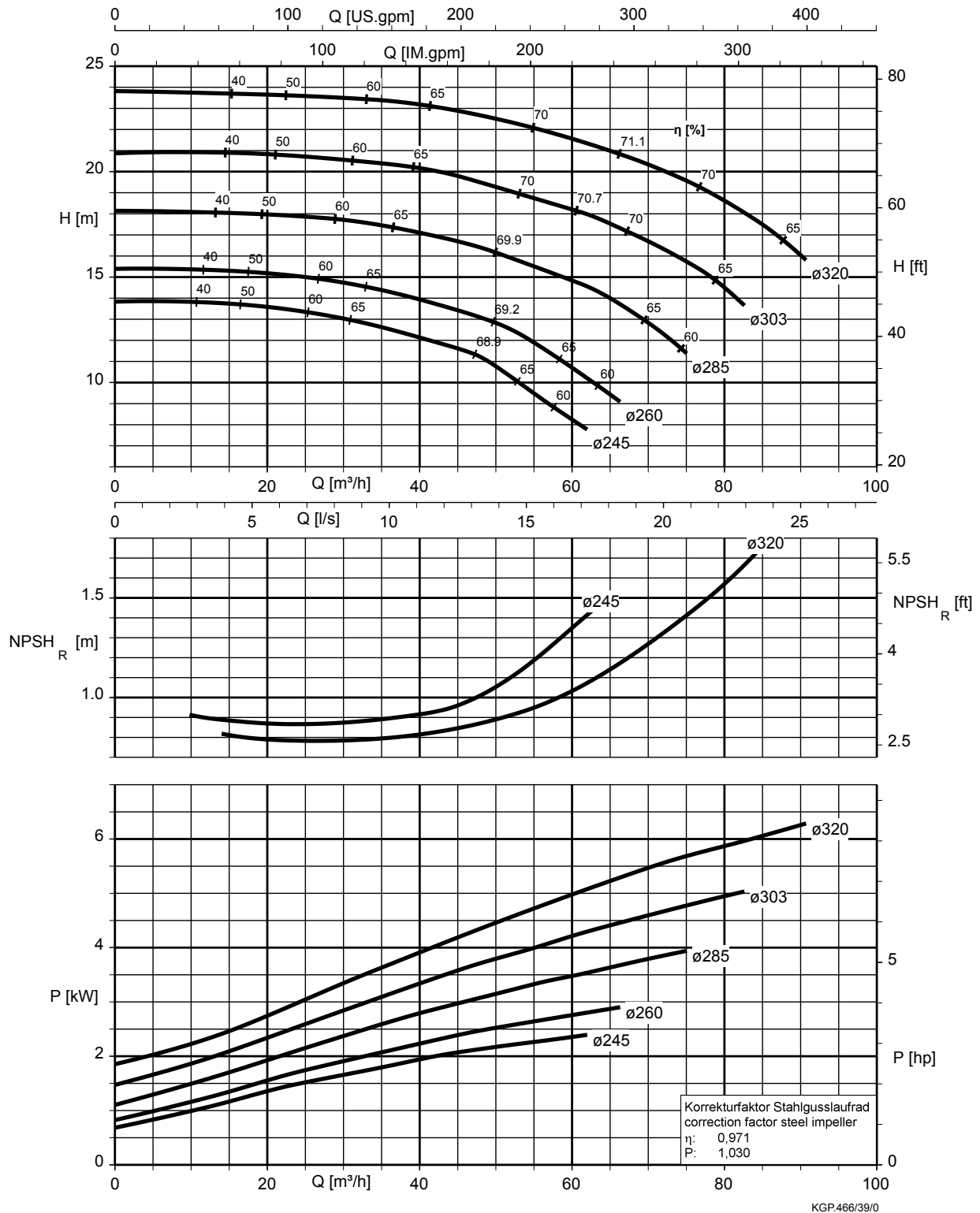
MegaCPK 100-065-250, n = 1160 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



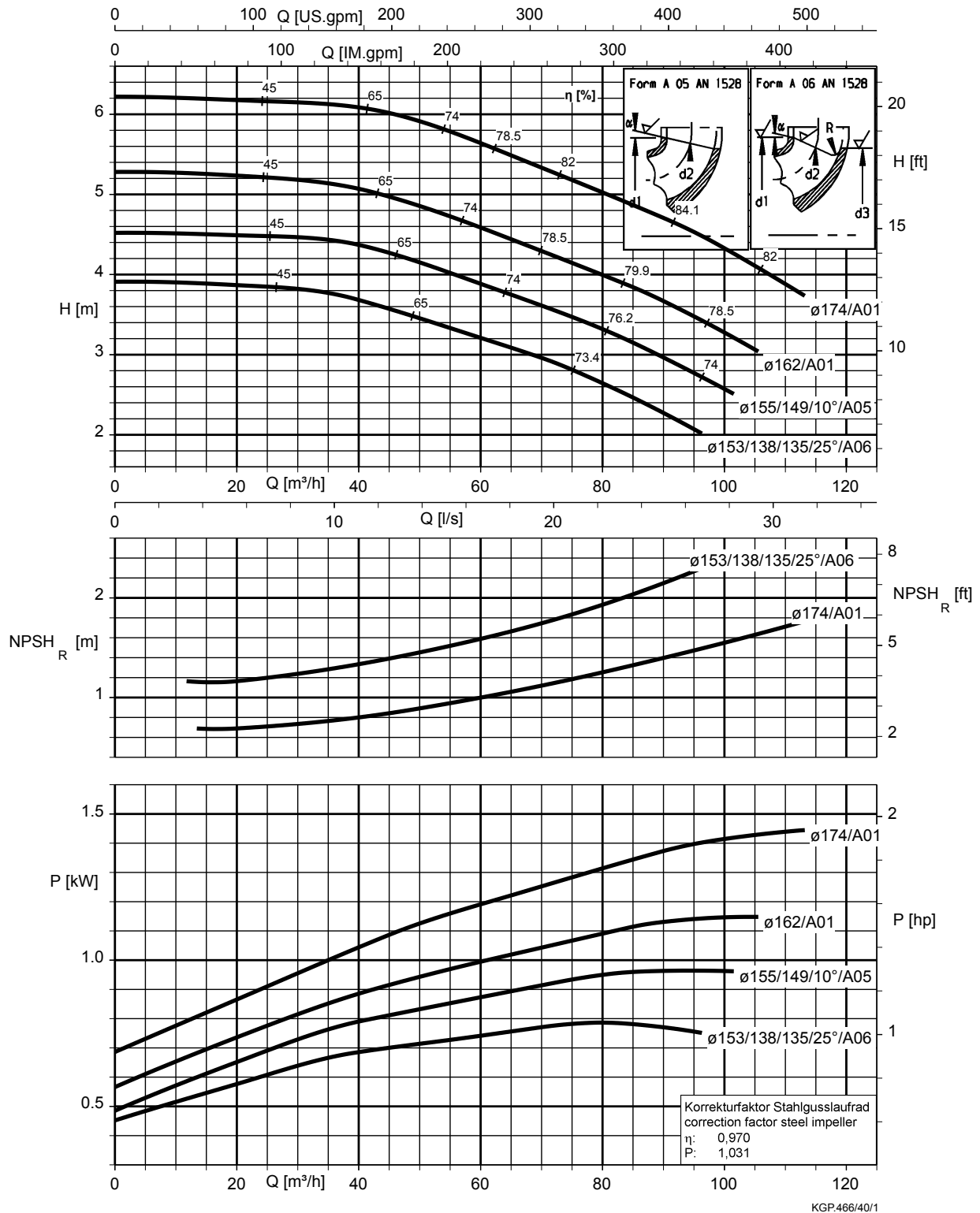
MegaCPK 100-065-315, n = 1160 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



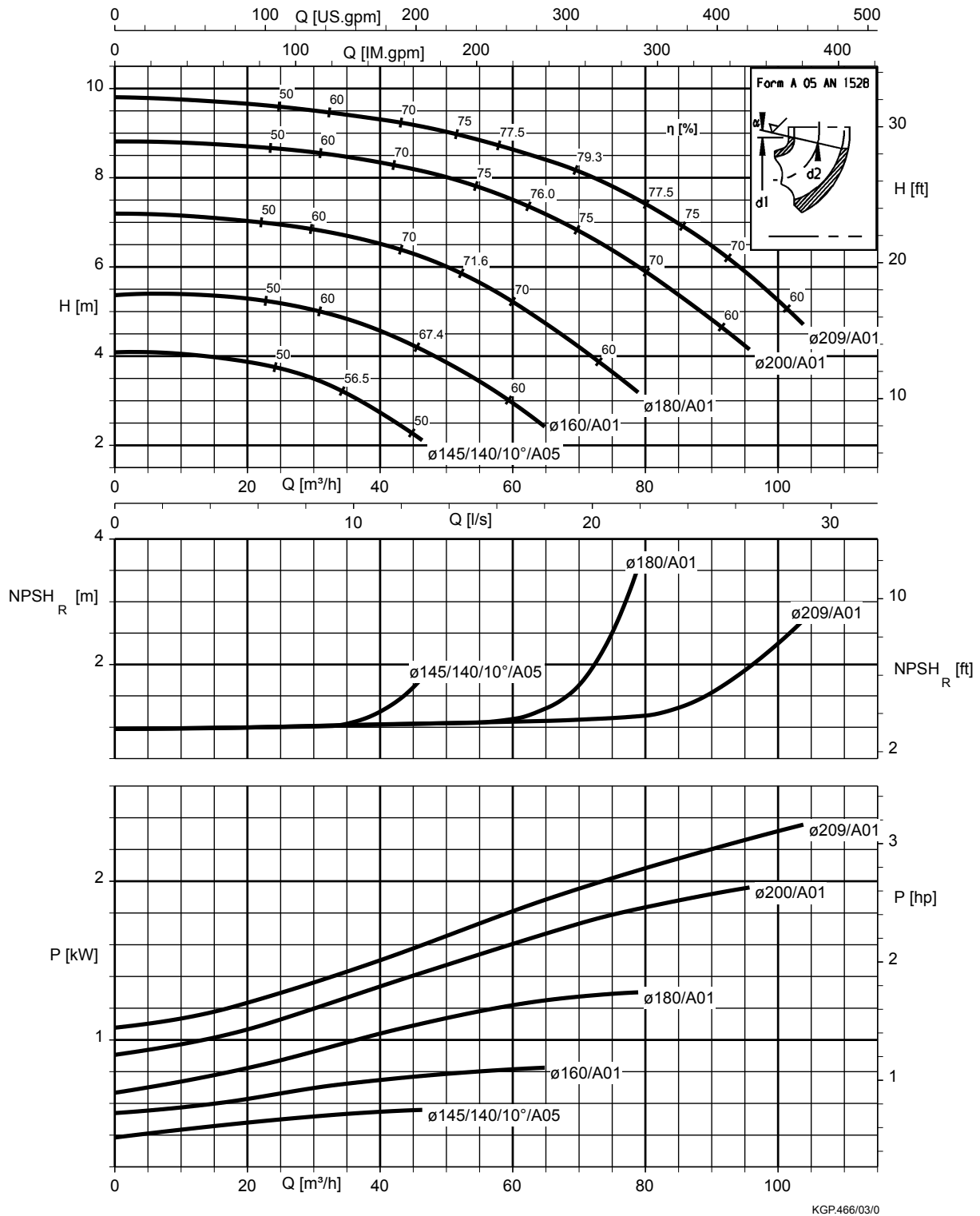
MegaCPK 125-080-160, n = 1160 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



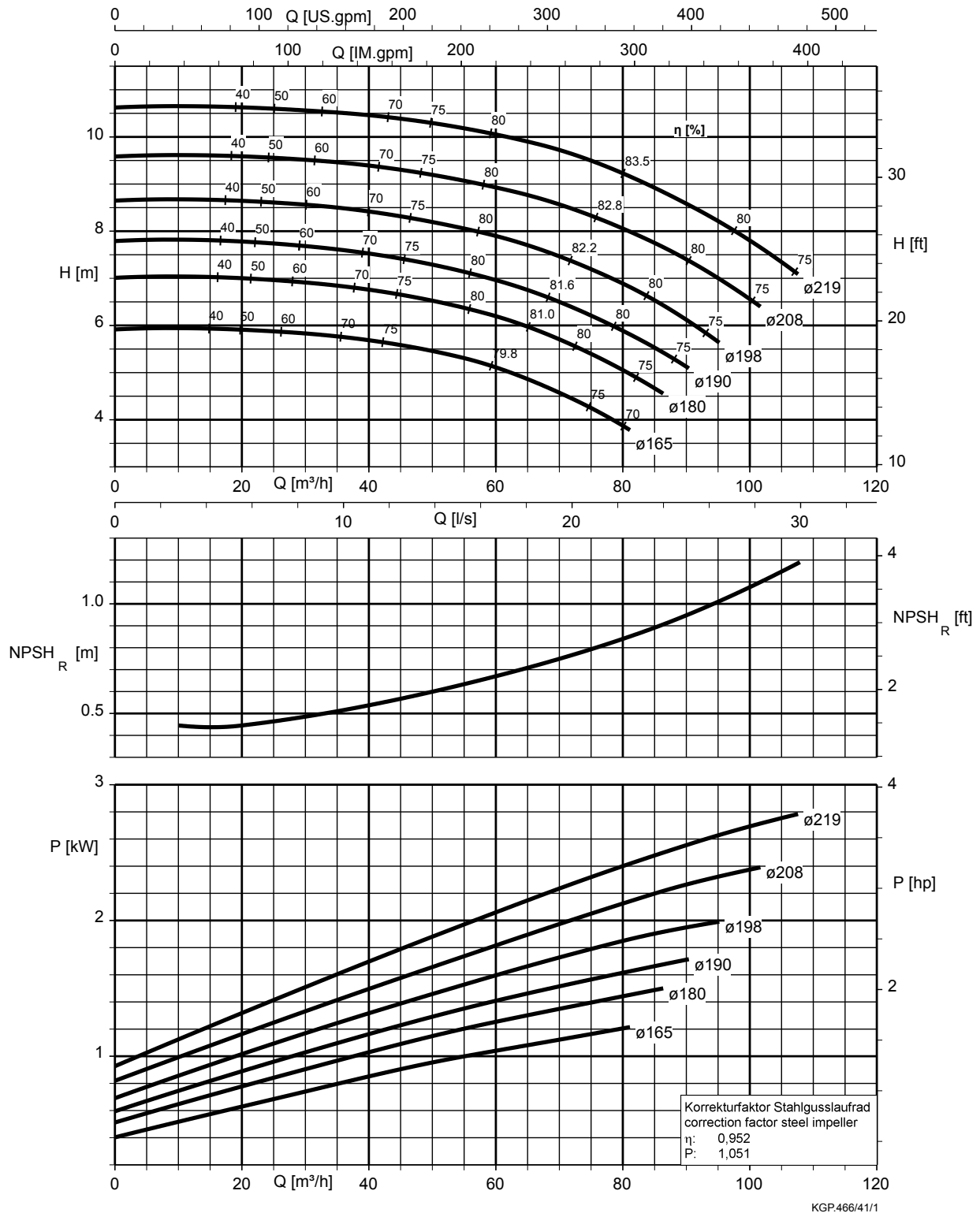
MegaCPK 125-080-200.1, $n = 1160$ rpm

Magnochem, Magnochem-Bloc



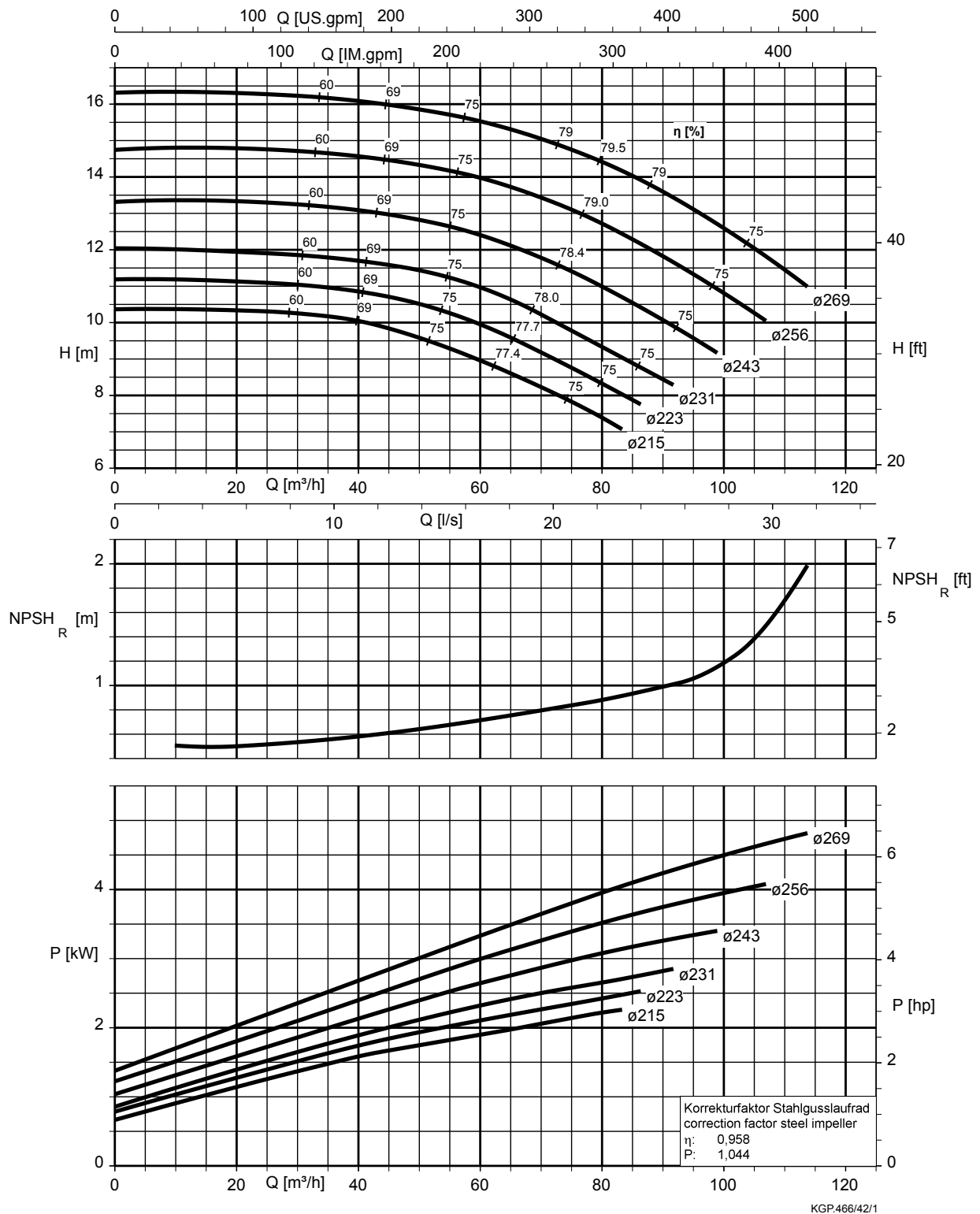
MegaCPK 125-080-200, n = 1160 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



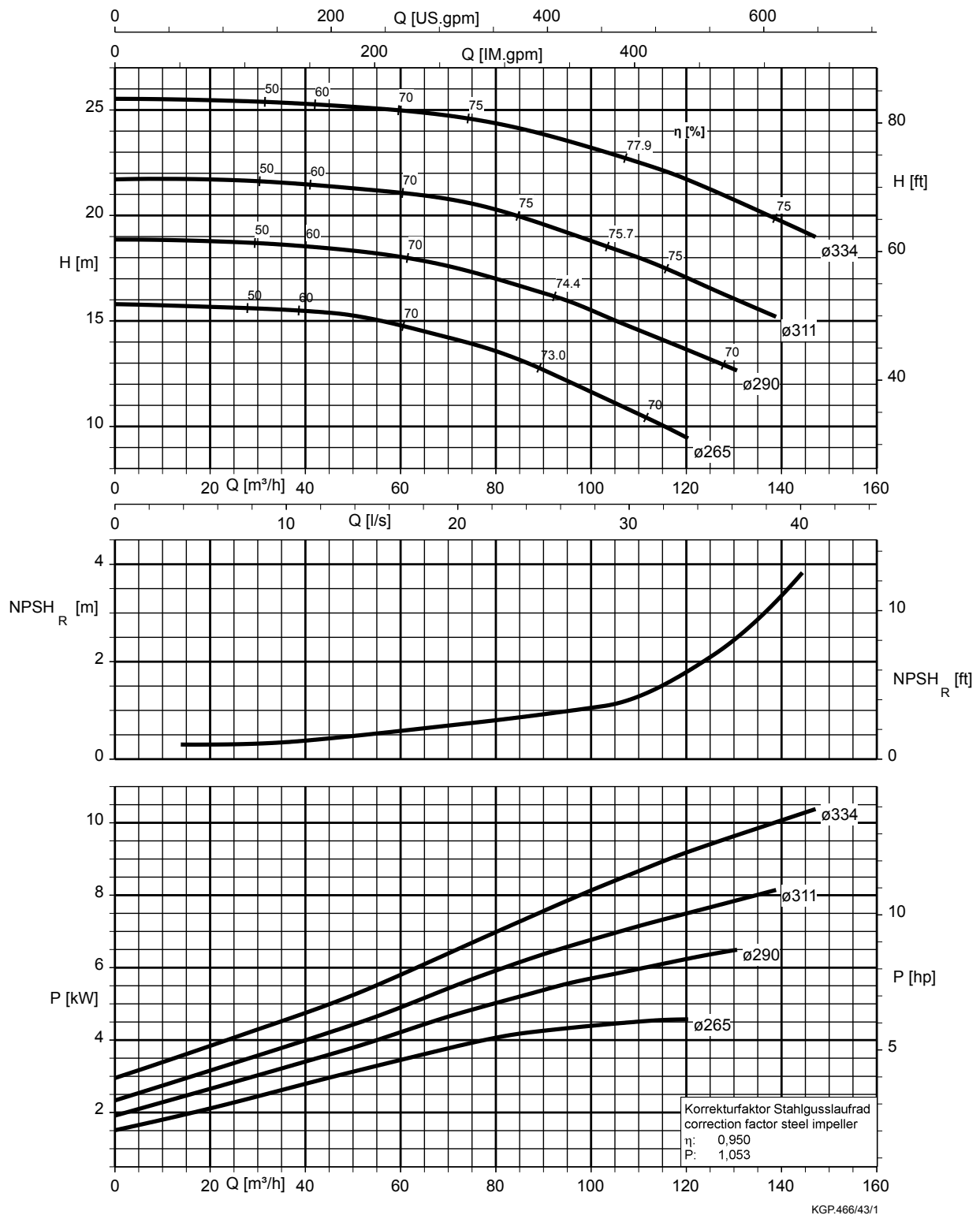
MegaCPK 125-080-250, n = 1160 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



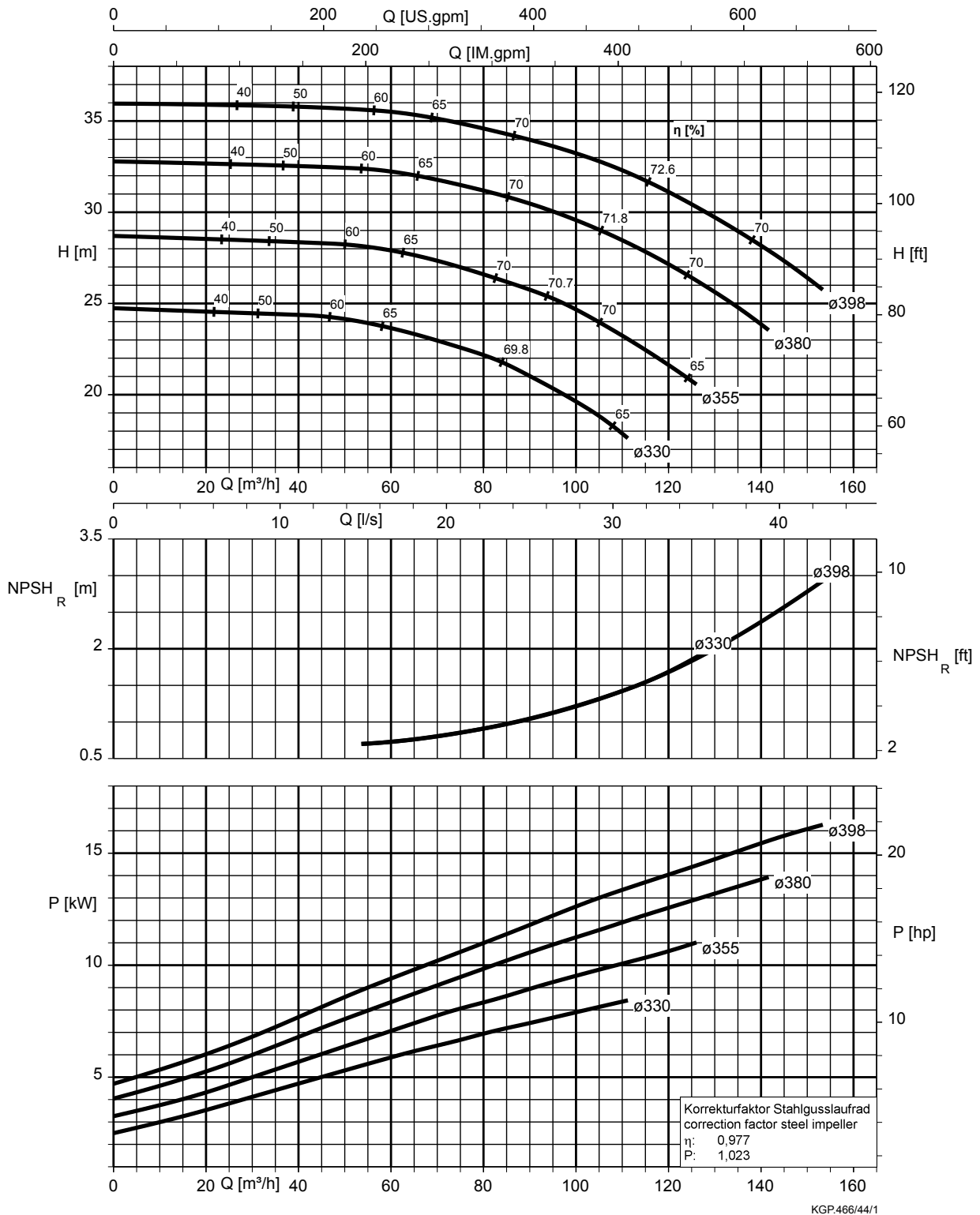
MegaCPK 125-080-315, n = 1160 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



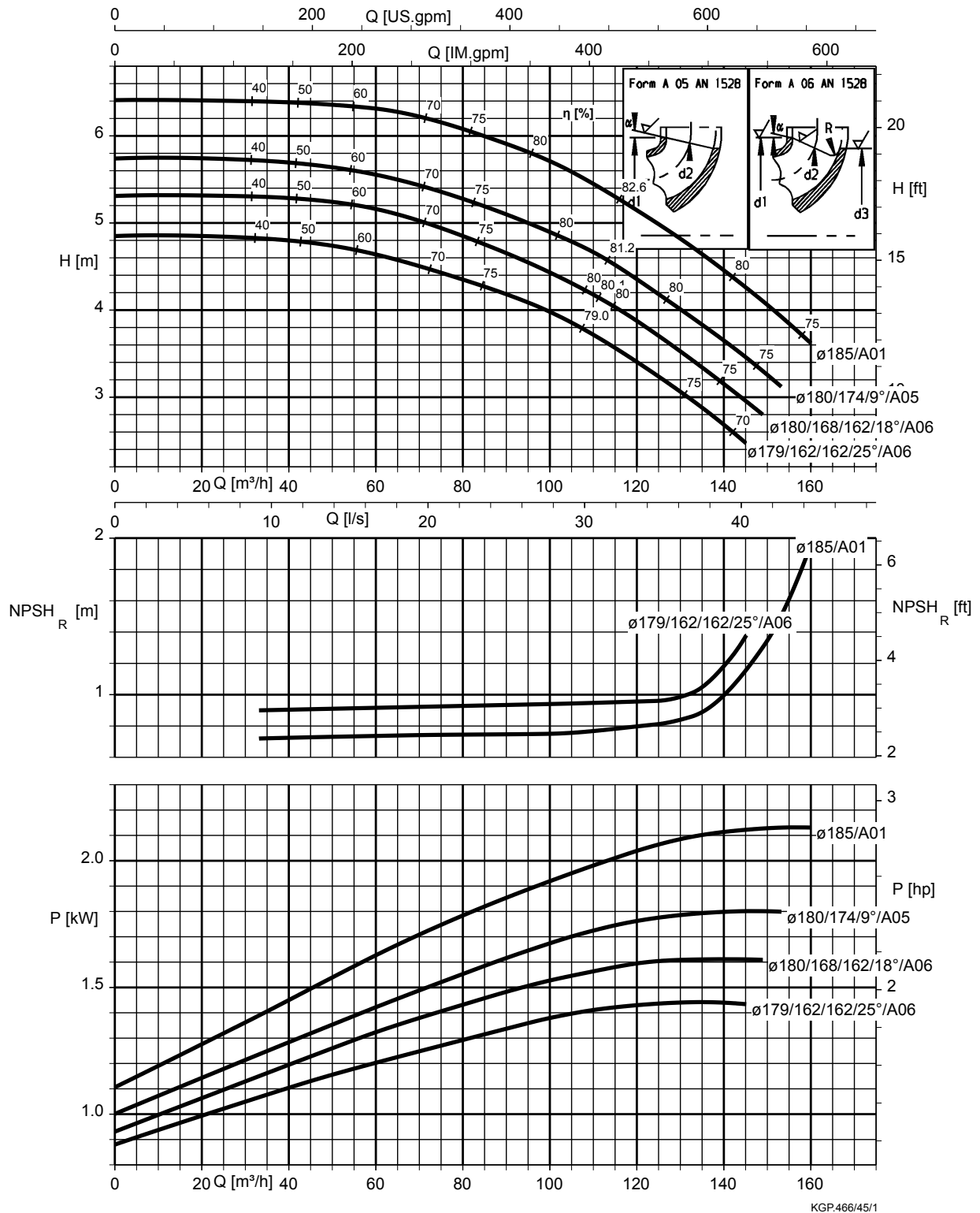
MegaCPK 125-080-400, n = 1160 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



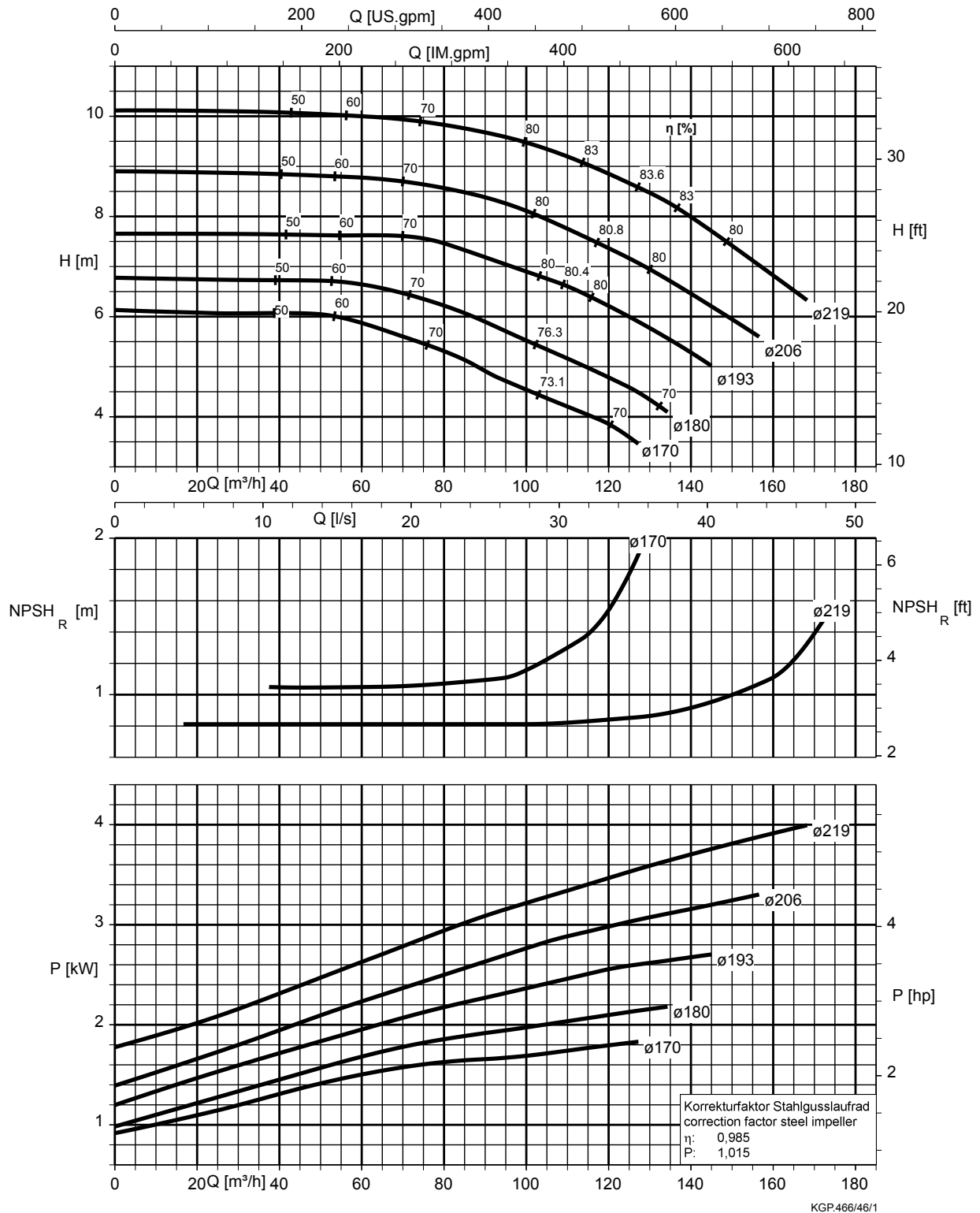
MegaCPK 125-100-160, n = 1160 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



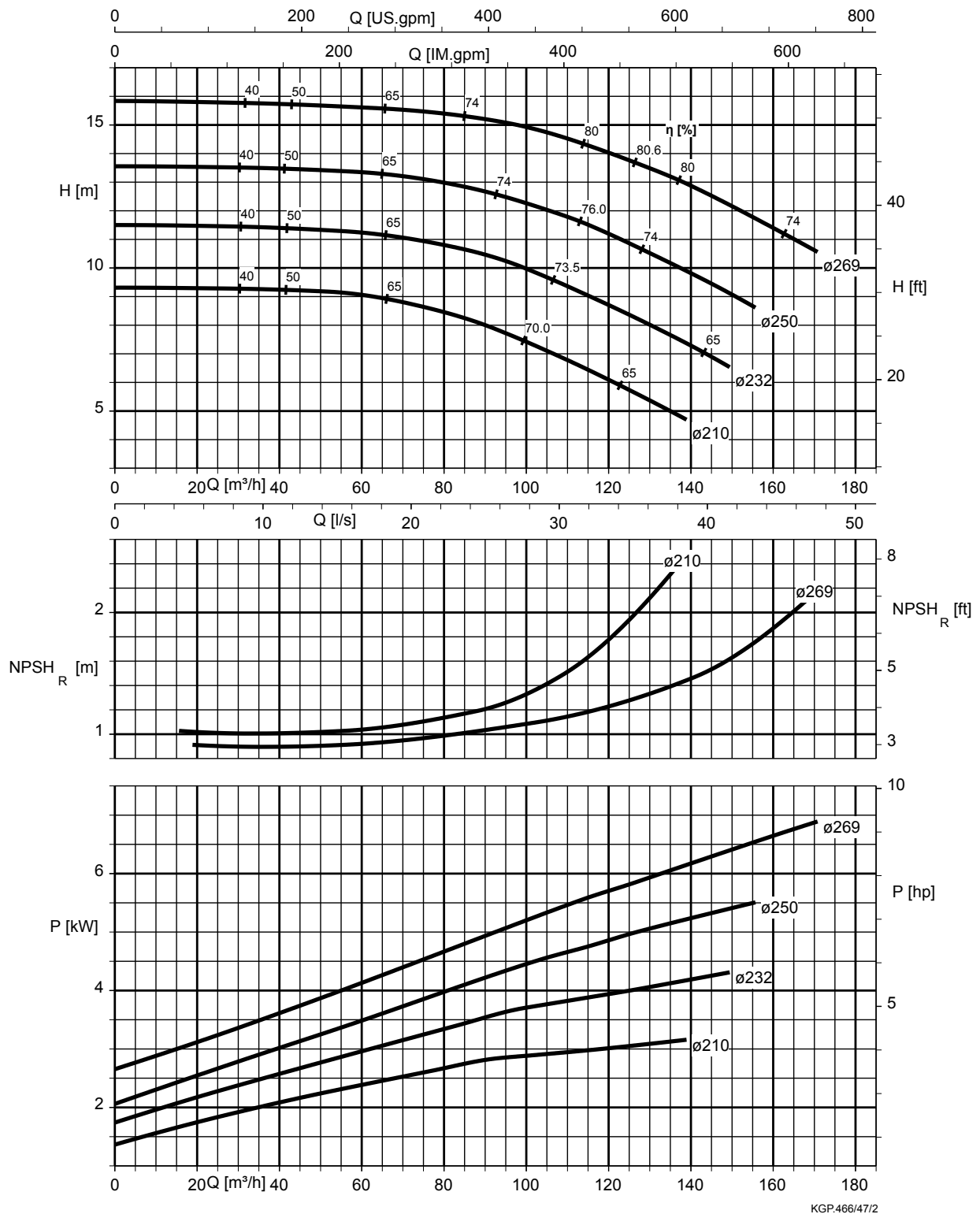
MegaCPK 125-100-200, n = 1160 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



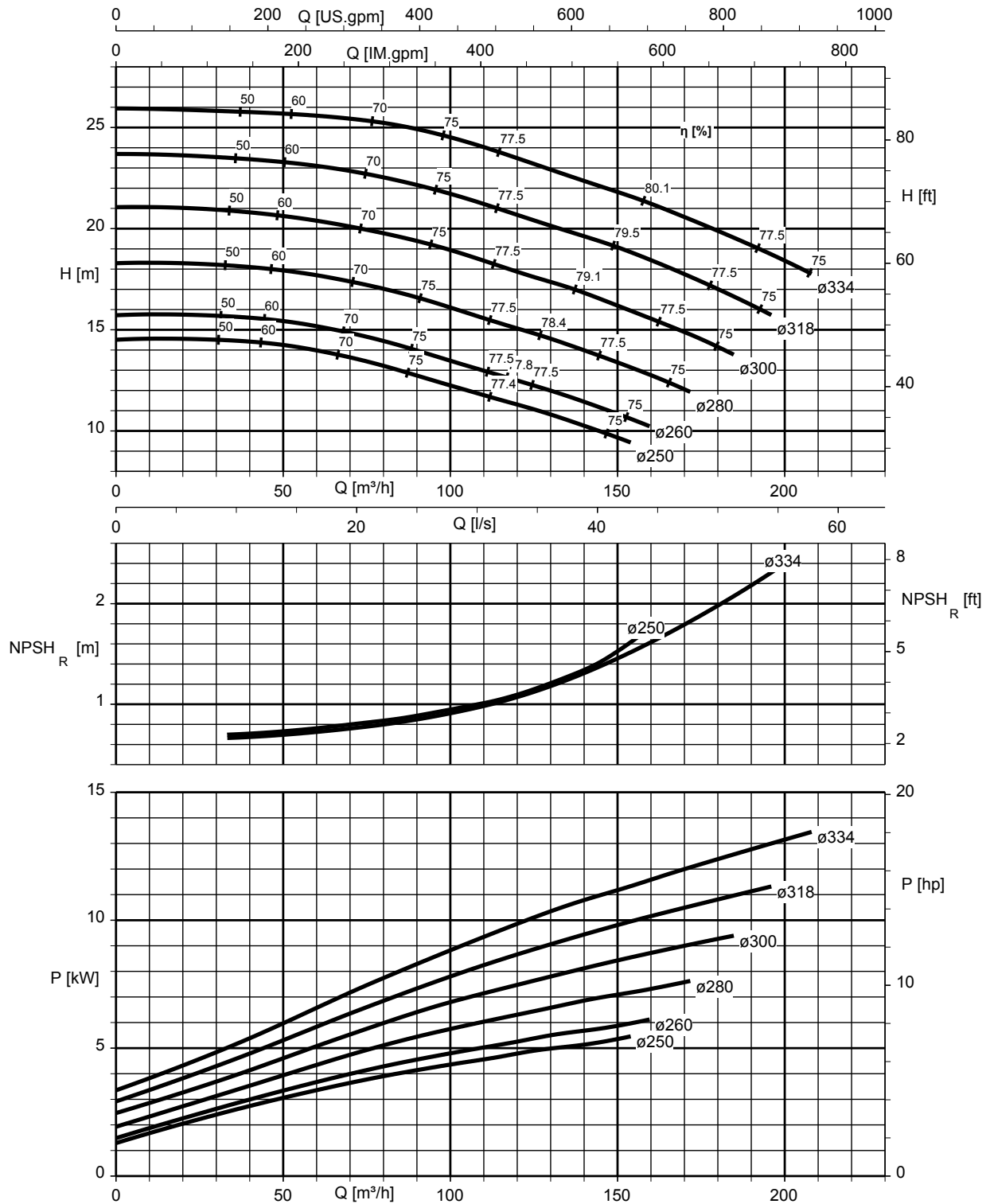
MegaCPK 125-100-250, n = 1160 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



MegaCPK 125-100-315, n = 1160 rpm

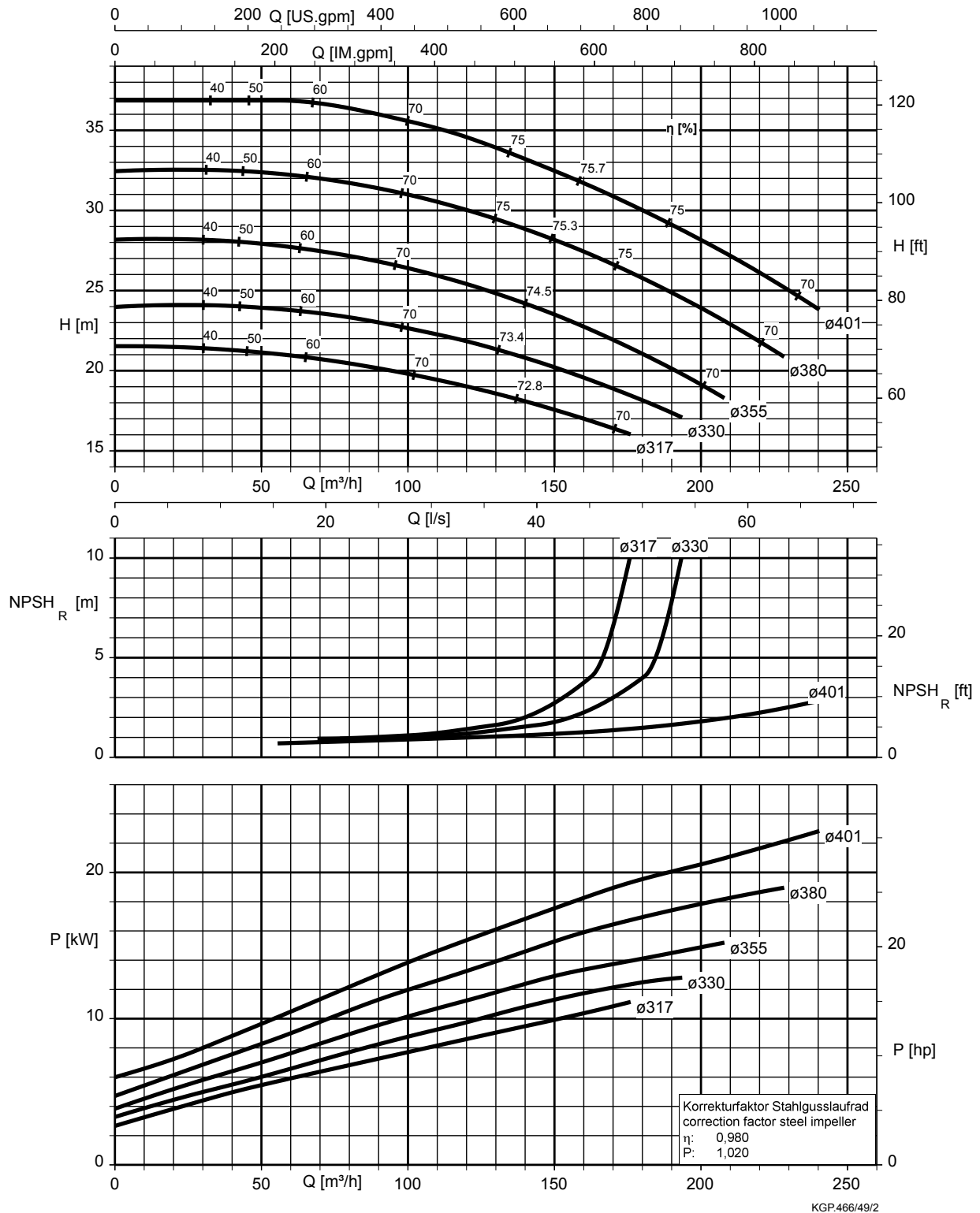
HPK-L, Magnochem, Magnochem-Bloc, Meganorm



KGP.466/48/1

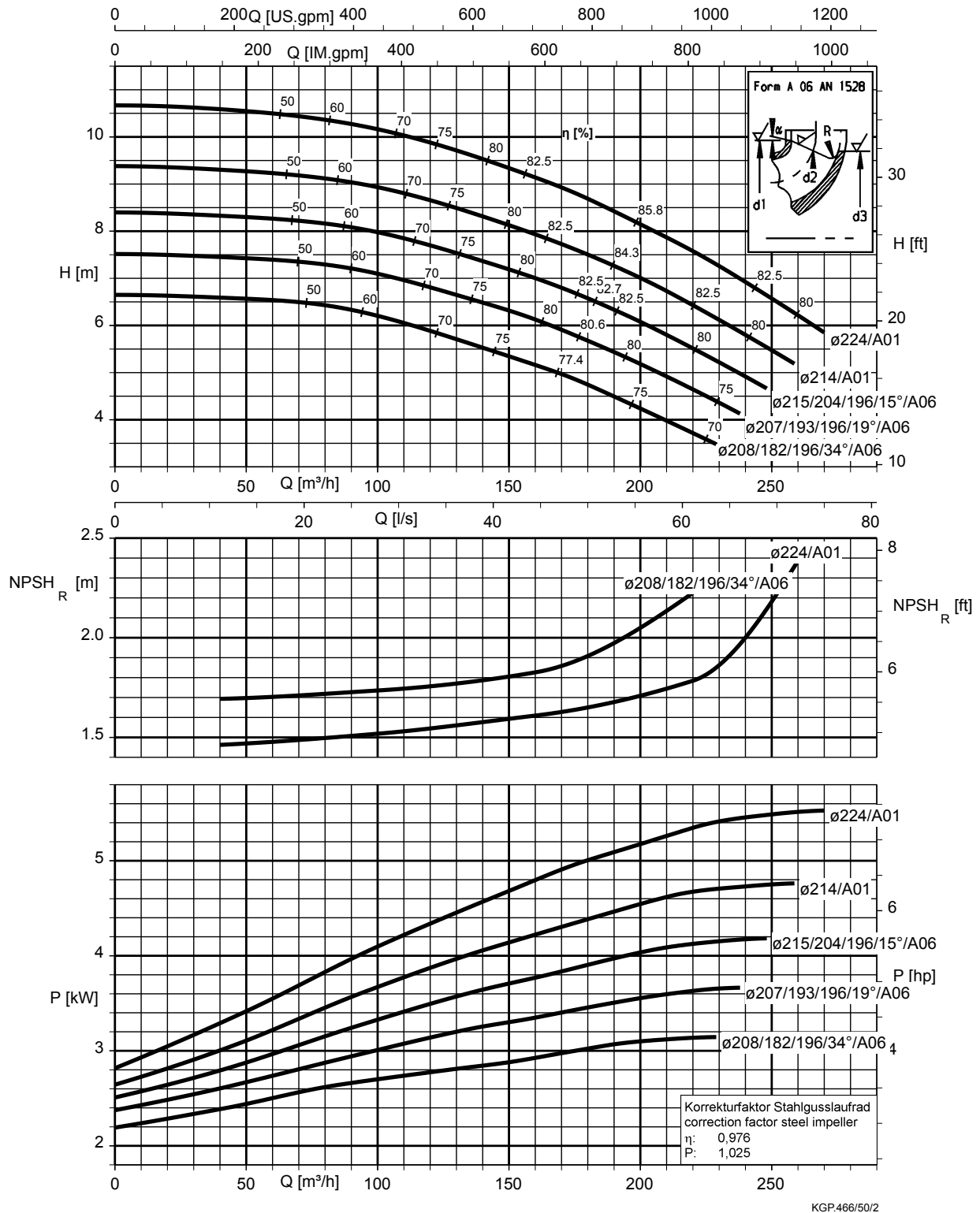
MegaCPK 125-100-400, n = 1160 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



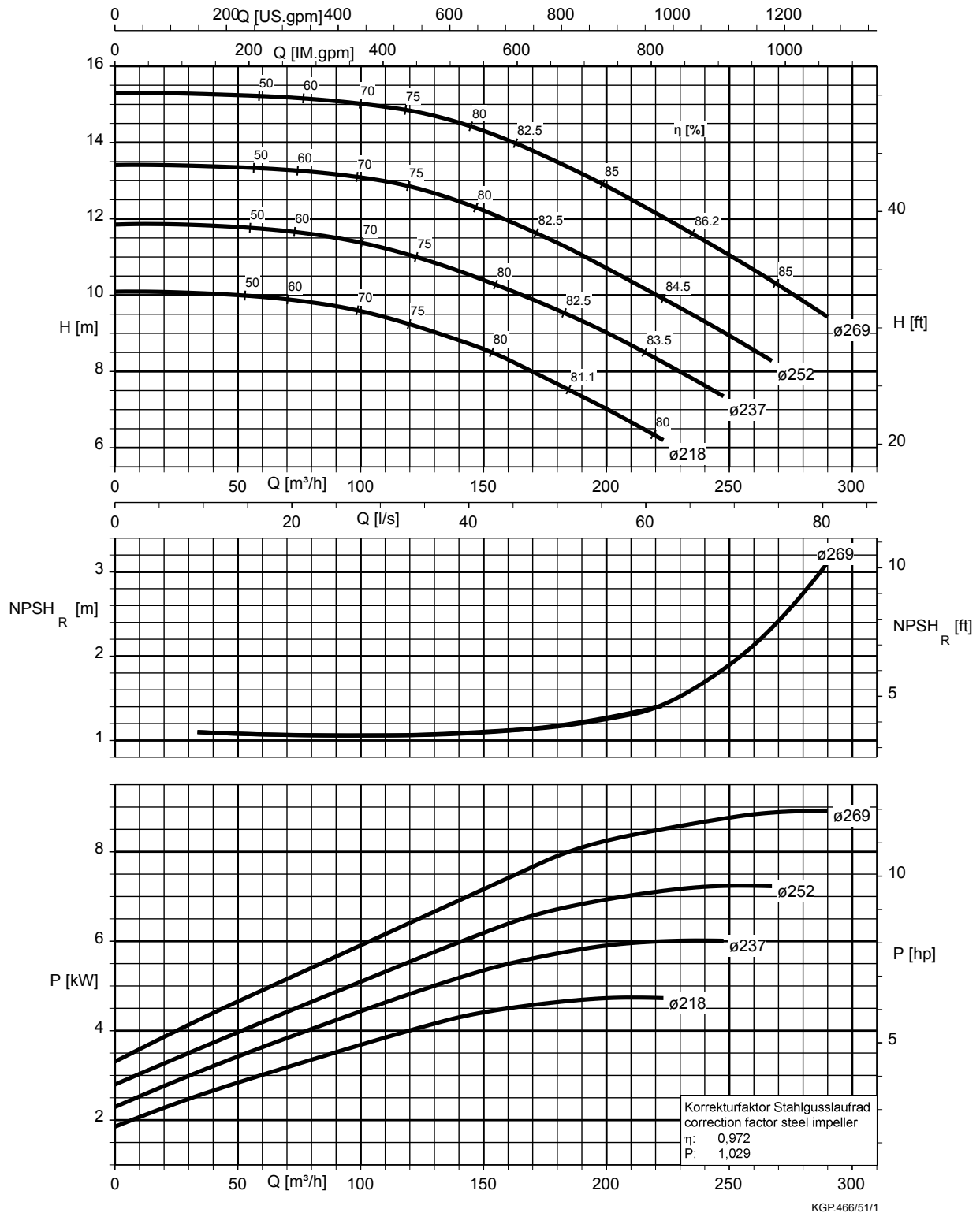
MegaCPK 150-125-200, n = 1160 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



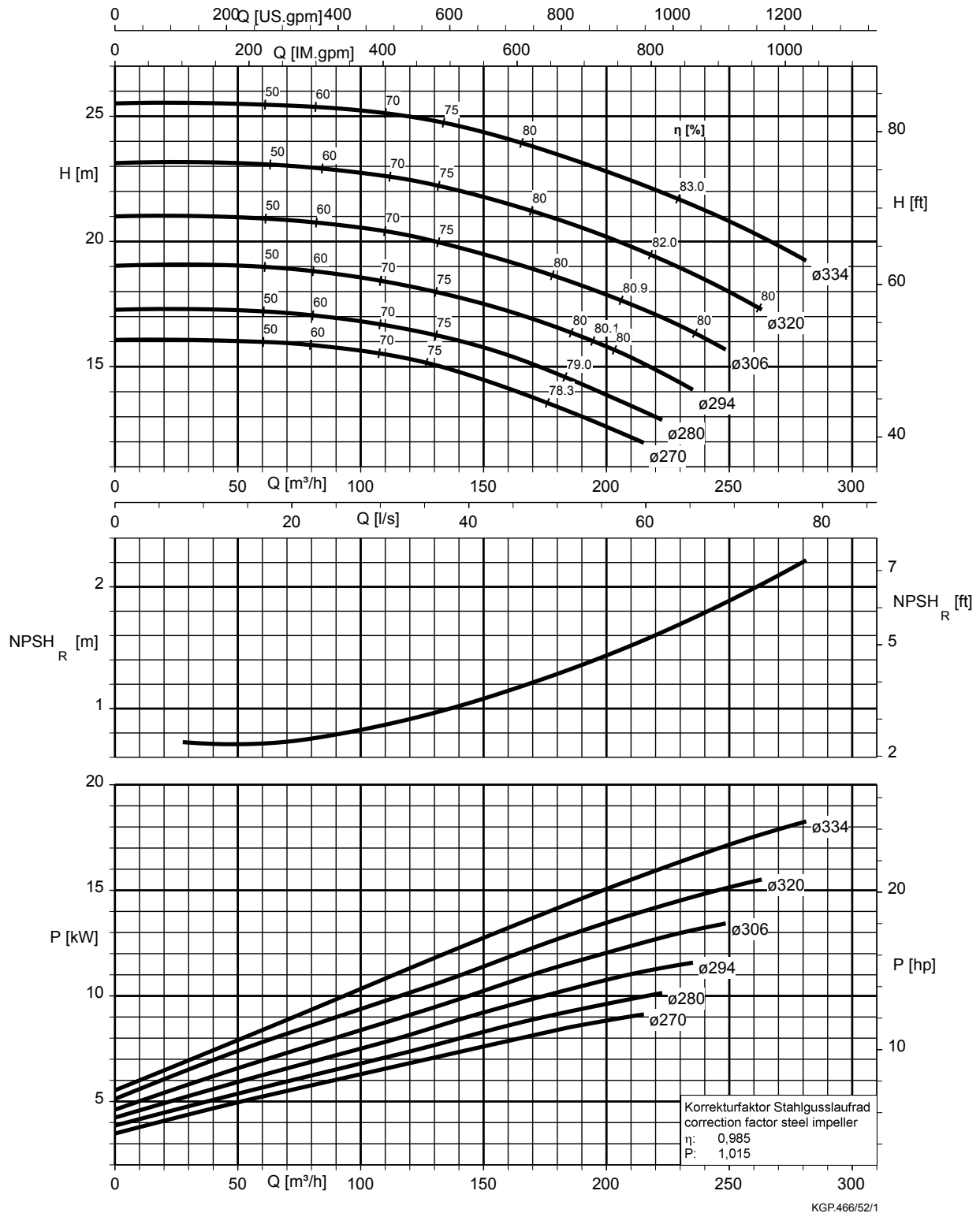
MegaCPK 150-125-250, n = 1160 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



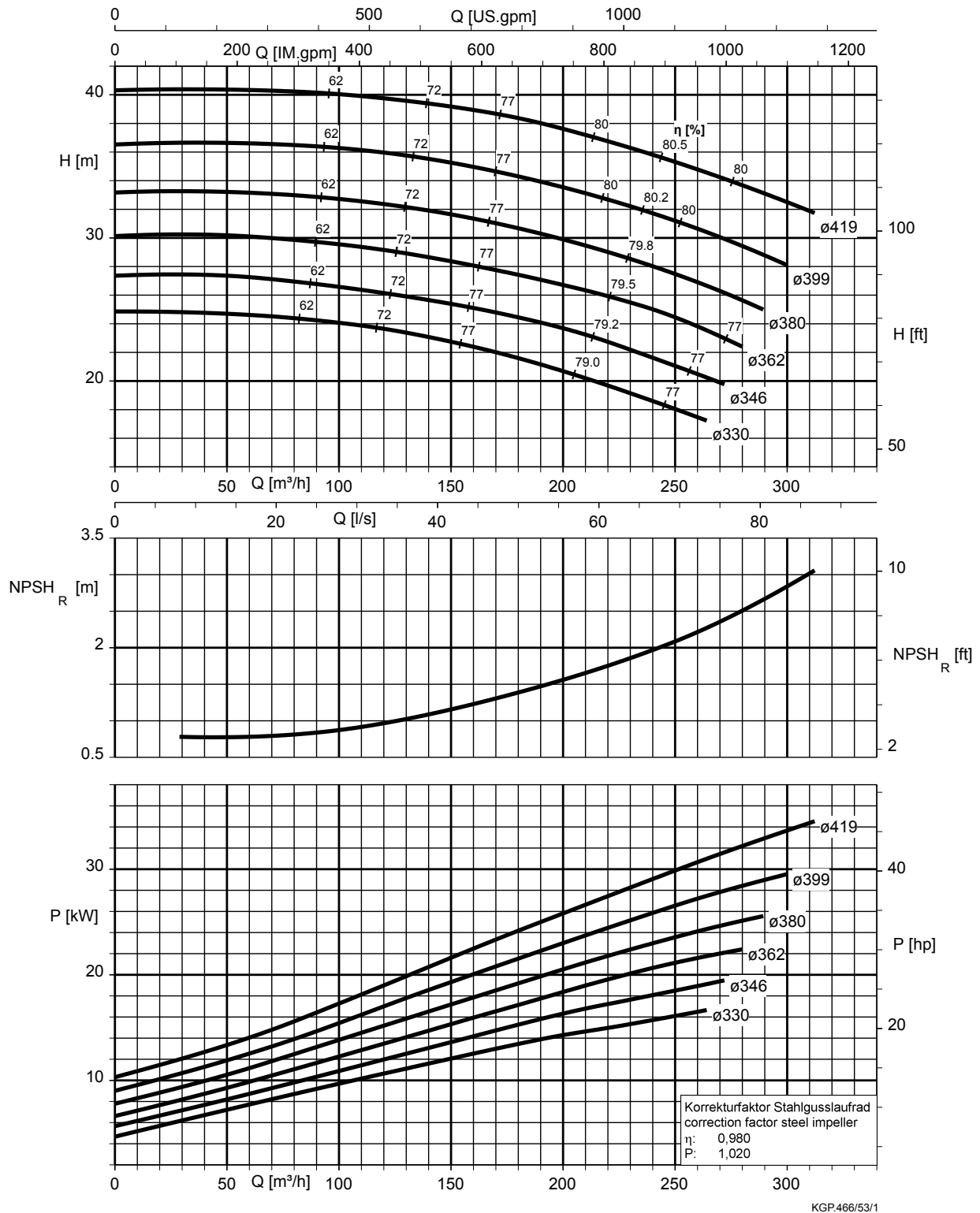
MegaCPK 150-125-315, n = 1160 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



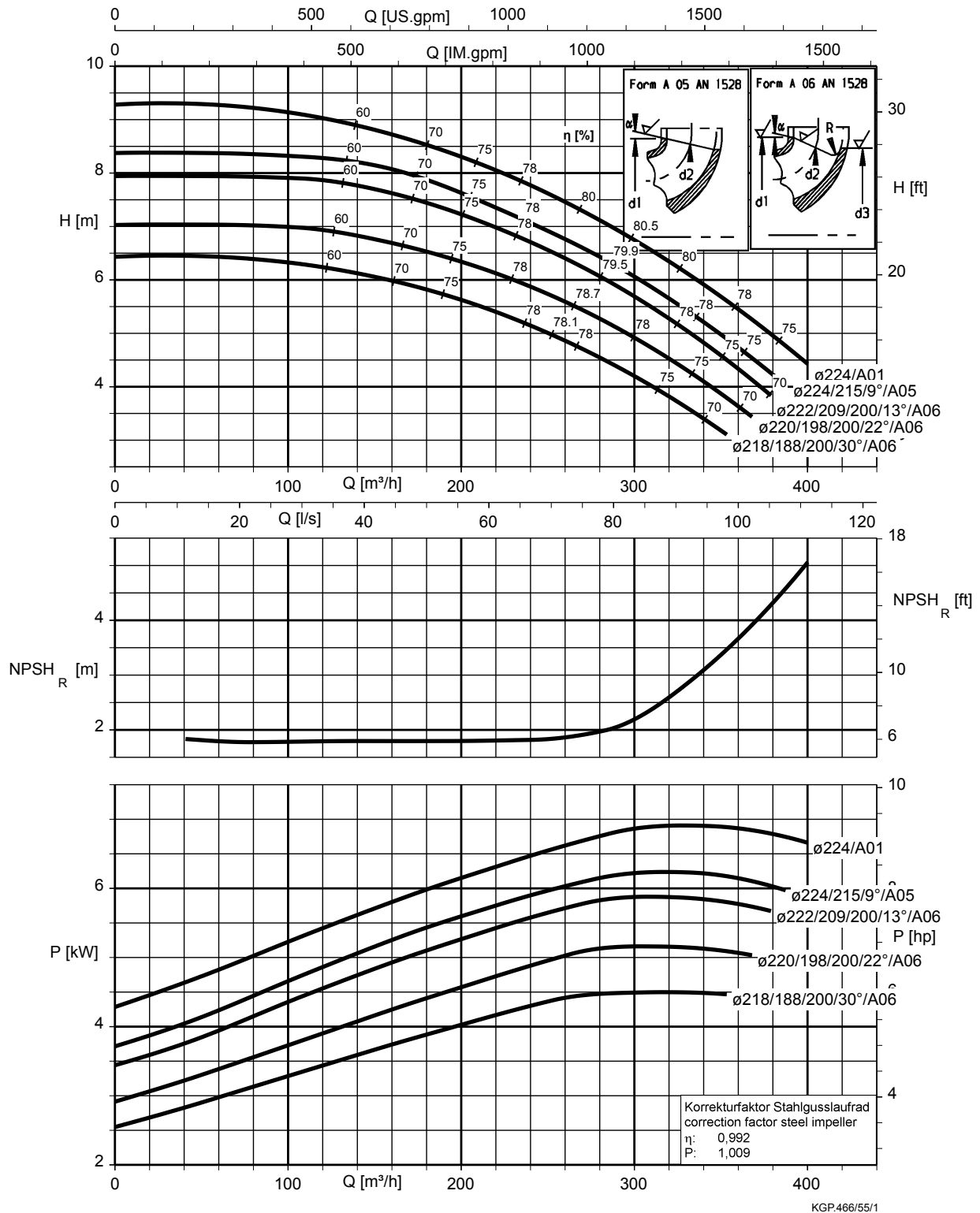
MegaCPK 150-125-400, n = 1160 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



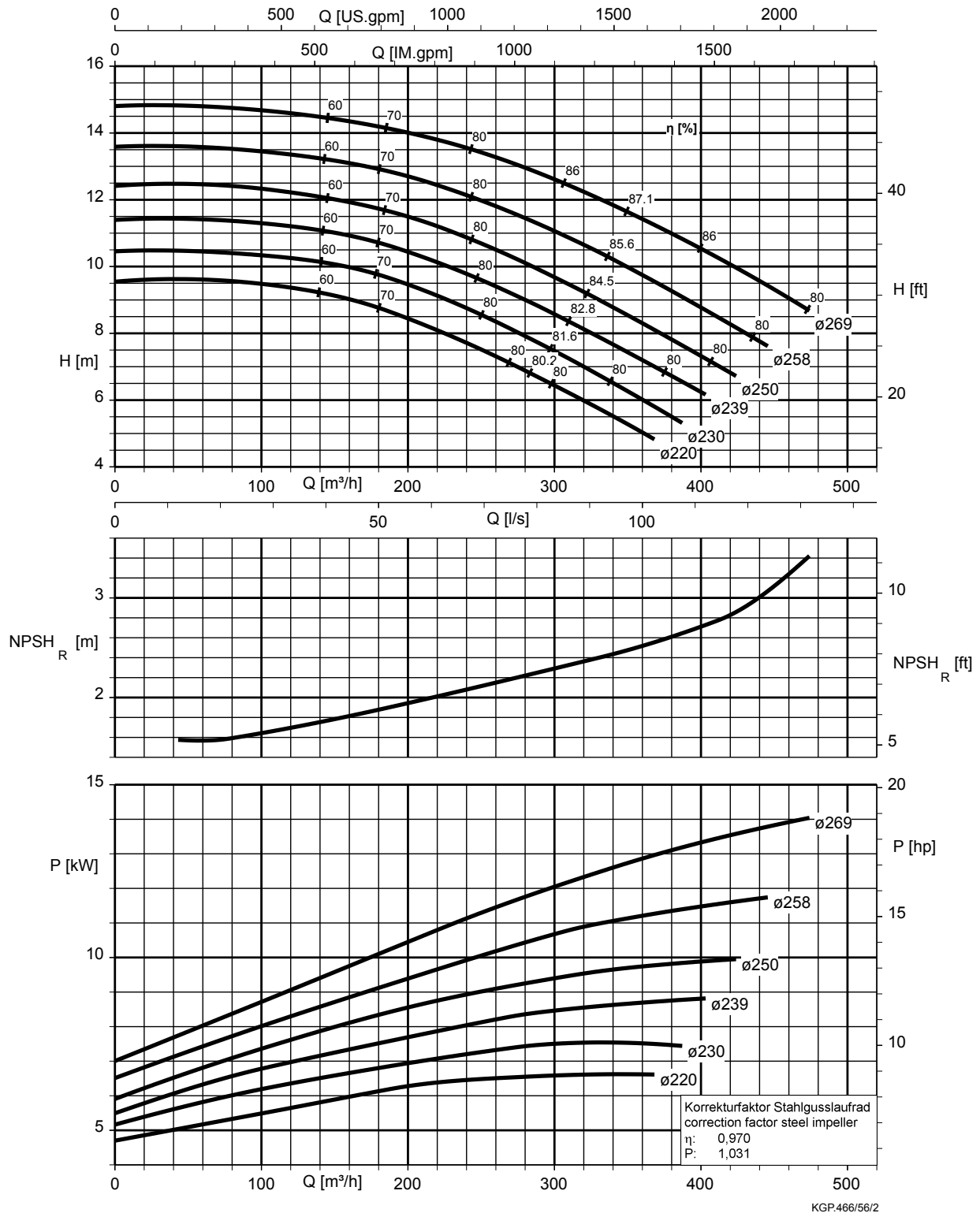
MegaCPK 200-150-200, n = 1160 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



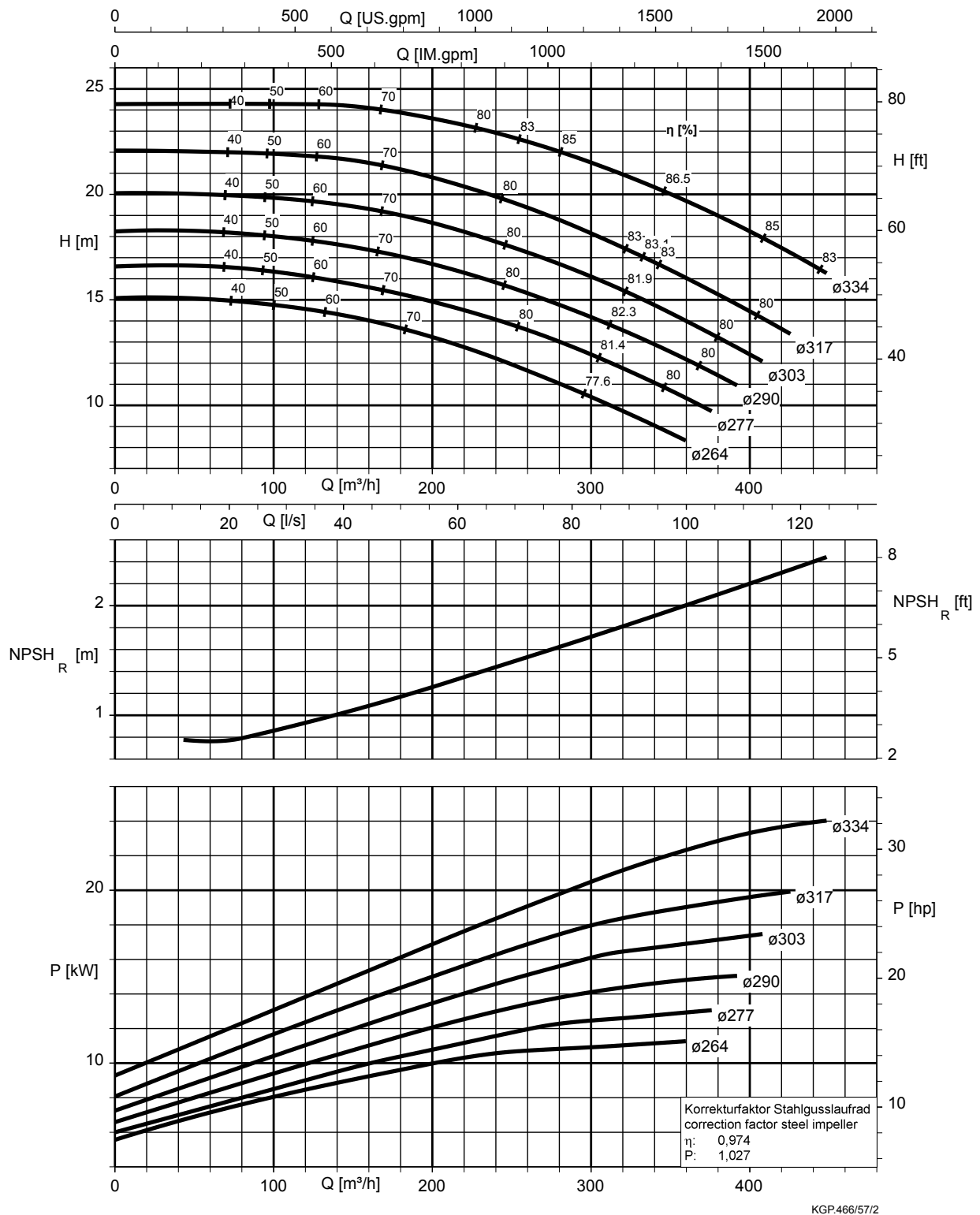
MegaCPK 200-150-250, n = 1160 rpm

HPK-L, Magnochem, Magnochem-Bloc, Meganorm



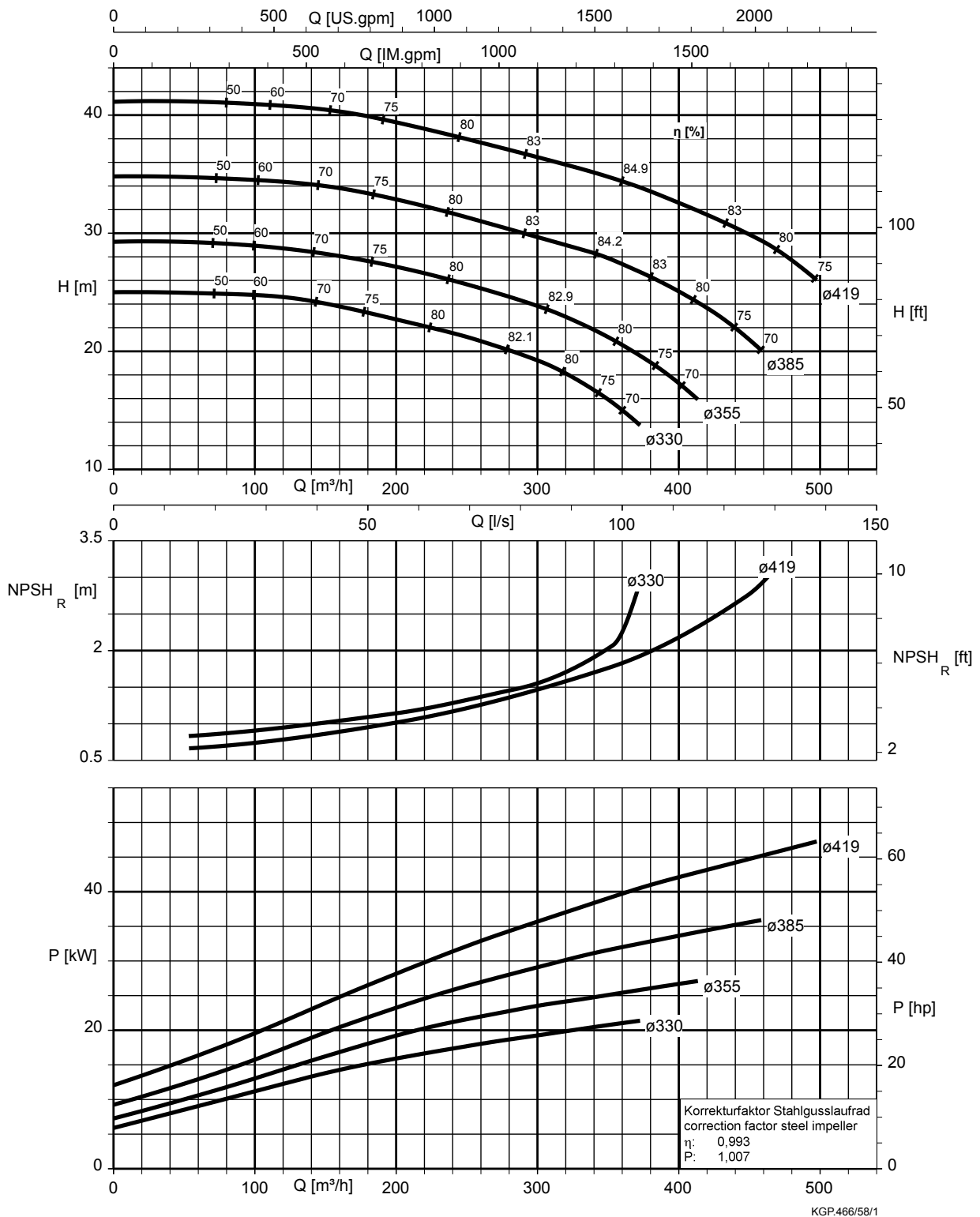
MegaCPK 200-150-315, n = 1160 rpm

HPK-L, Magnochem, Meganorm



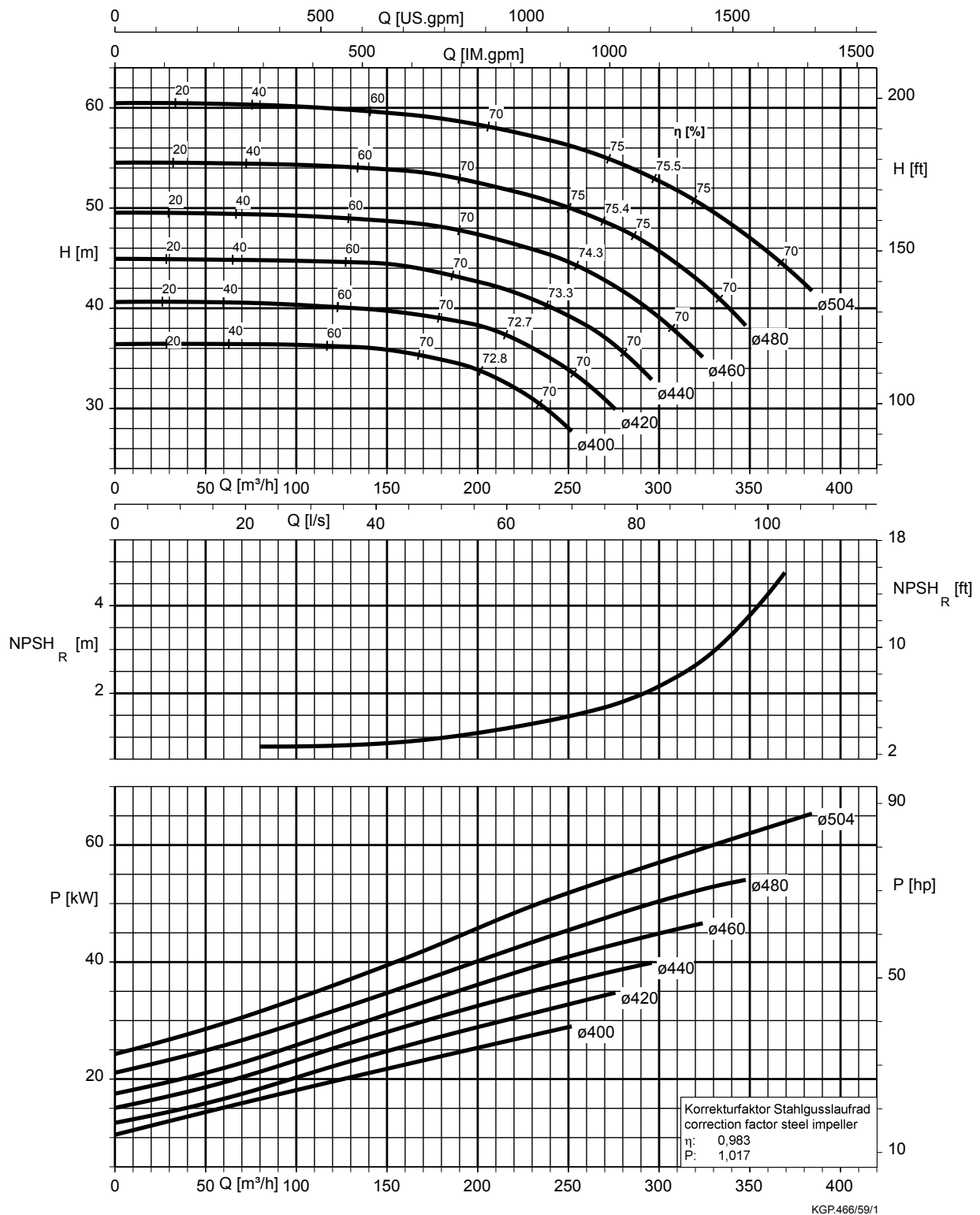
MegaCPK 200-150-400, n = 1160 rpm

HPK-L, Magnochem, Meganorm



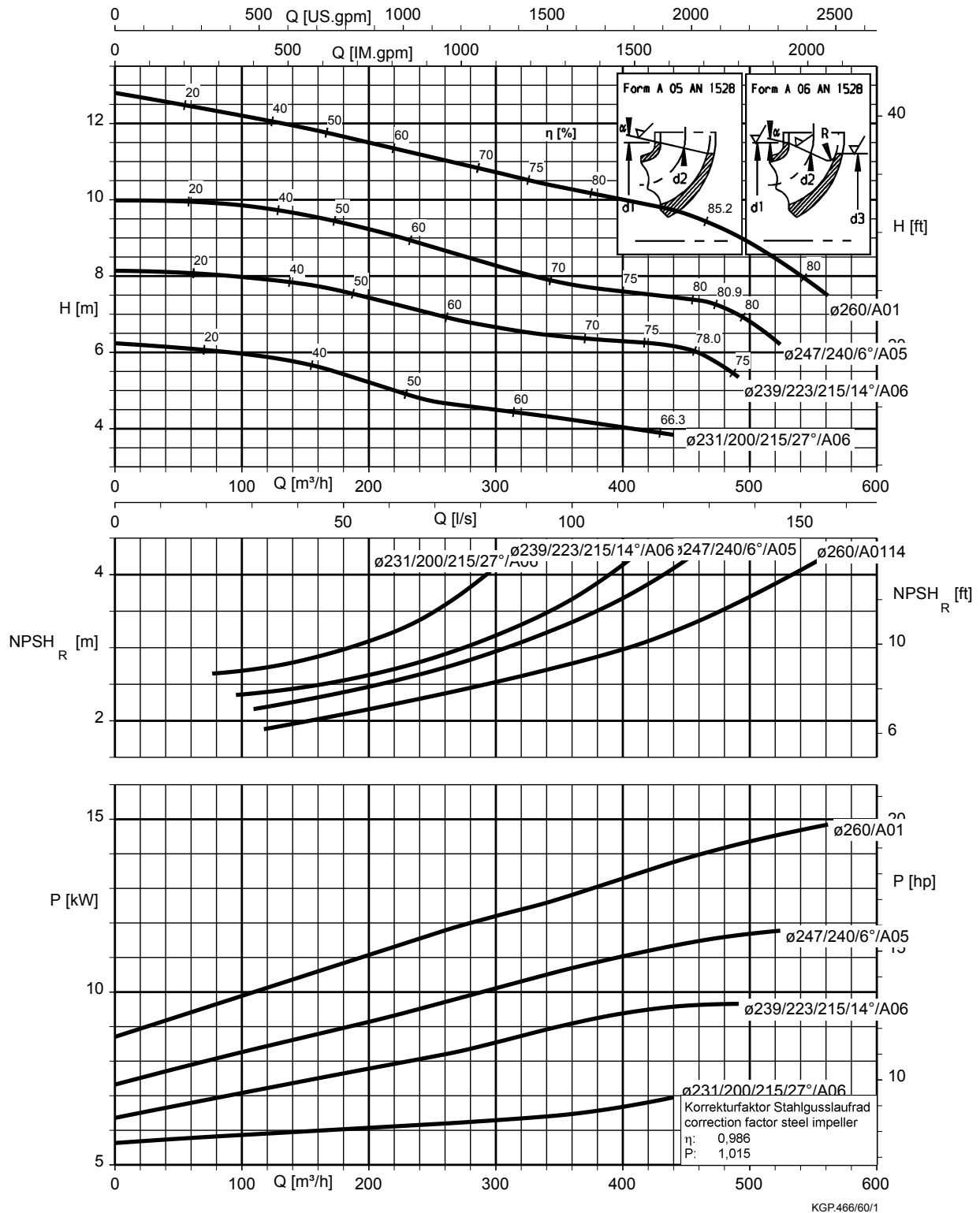
MegaCPK 200-150-500, n = 1160 rpm

HPK-L, Magnochem, Meganorm



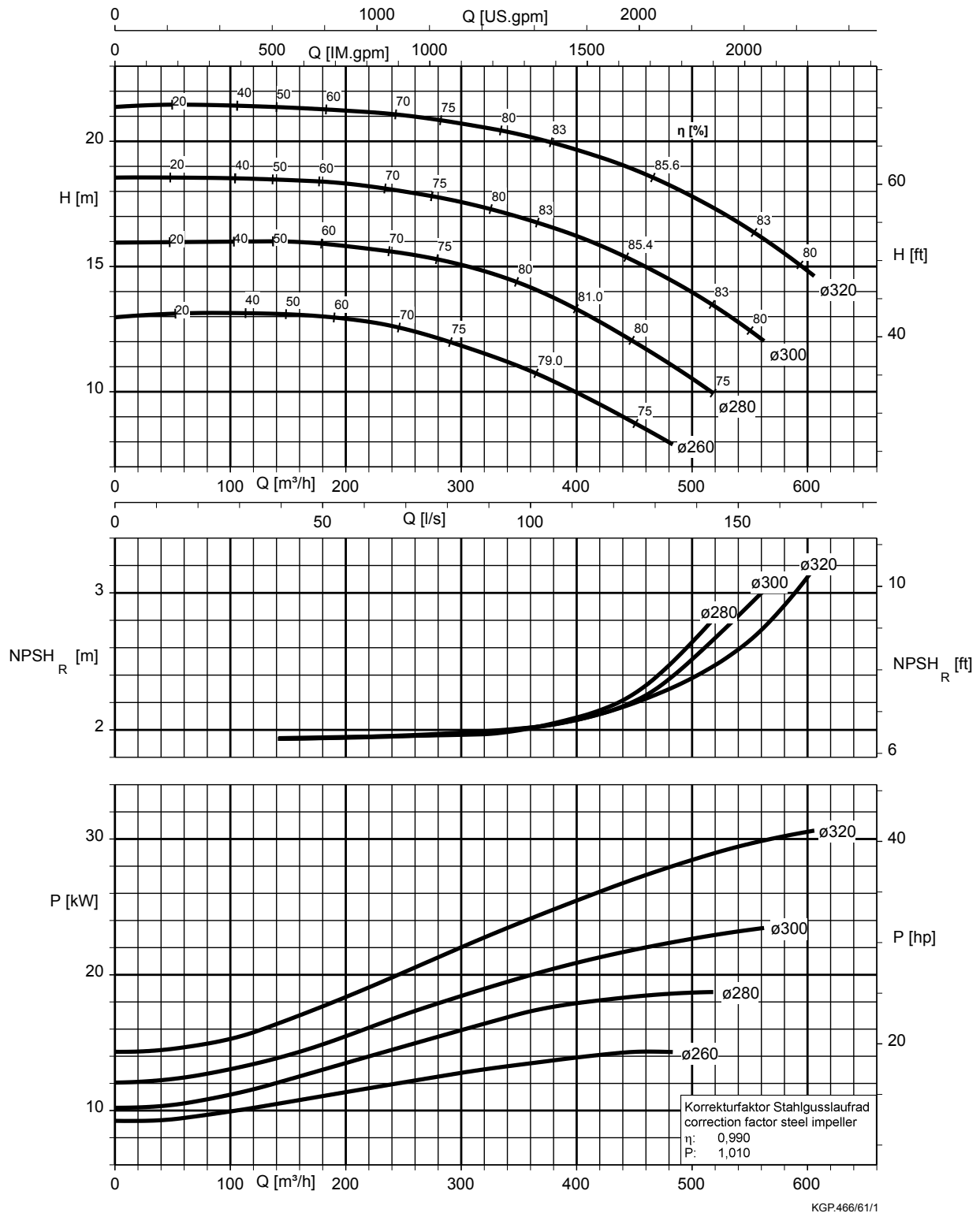
MegaCPK 200-200-250, n = 1160 rpm

HPK-L, Magnochem, Meganorm



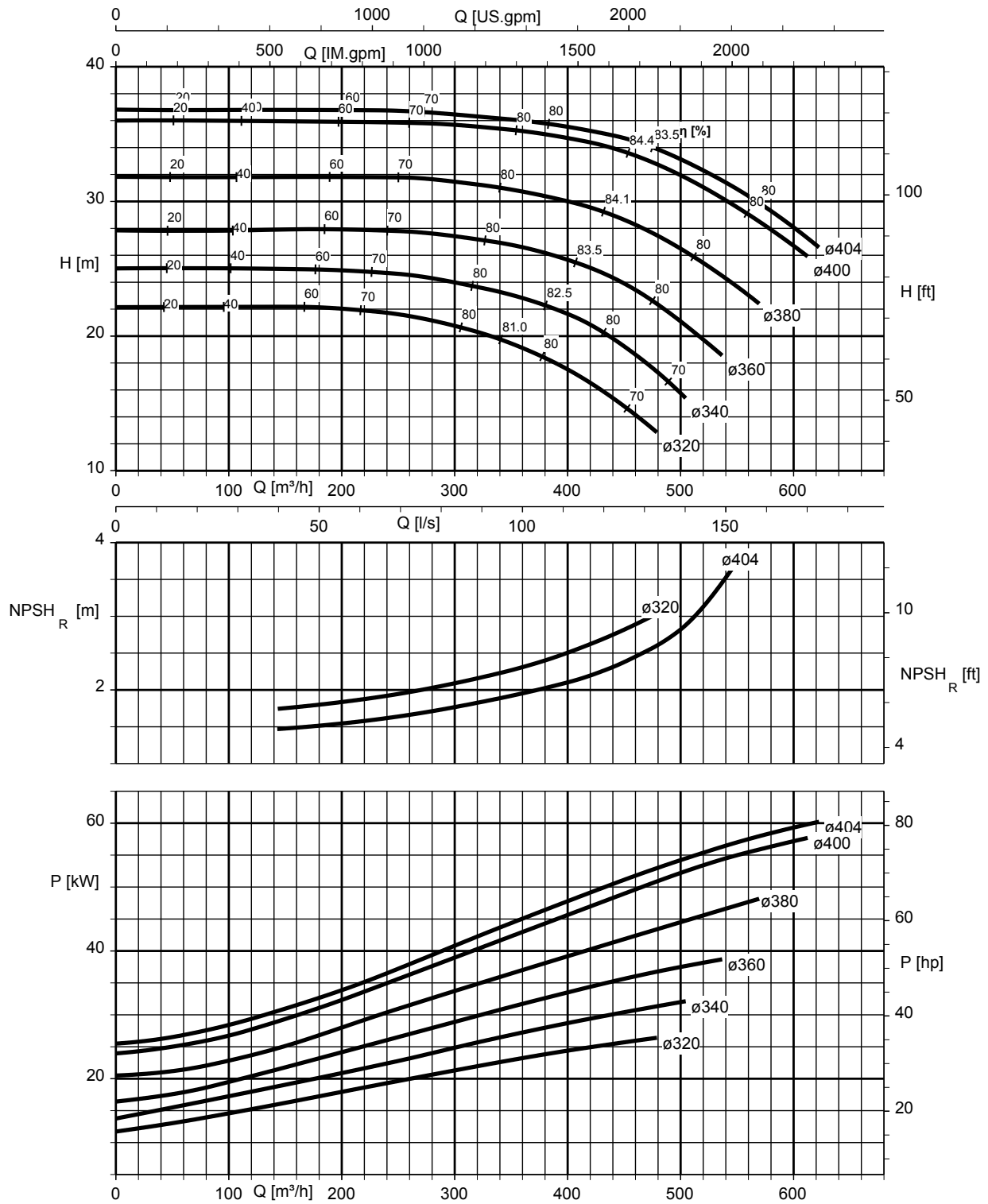
MegaCPK 250-200-315, n = 1160 rpm

HPK-L, Magnochem, Meganorm



MegaCPK 250-200-400, n = 1160 rpm

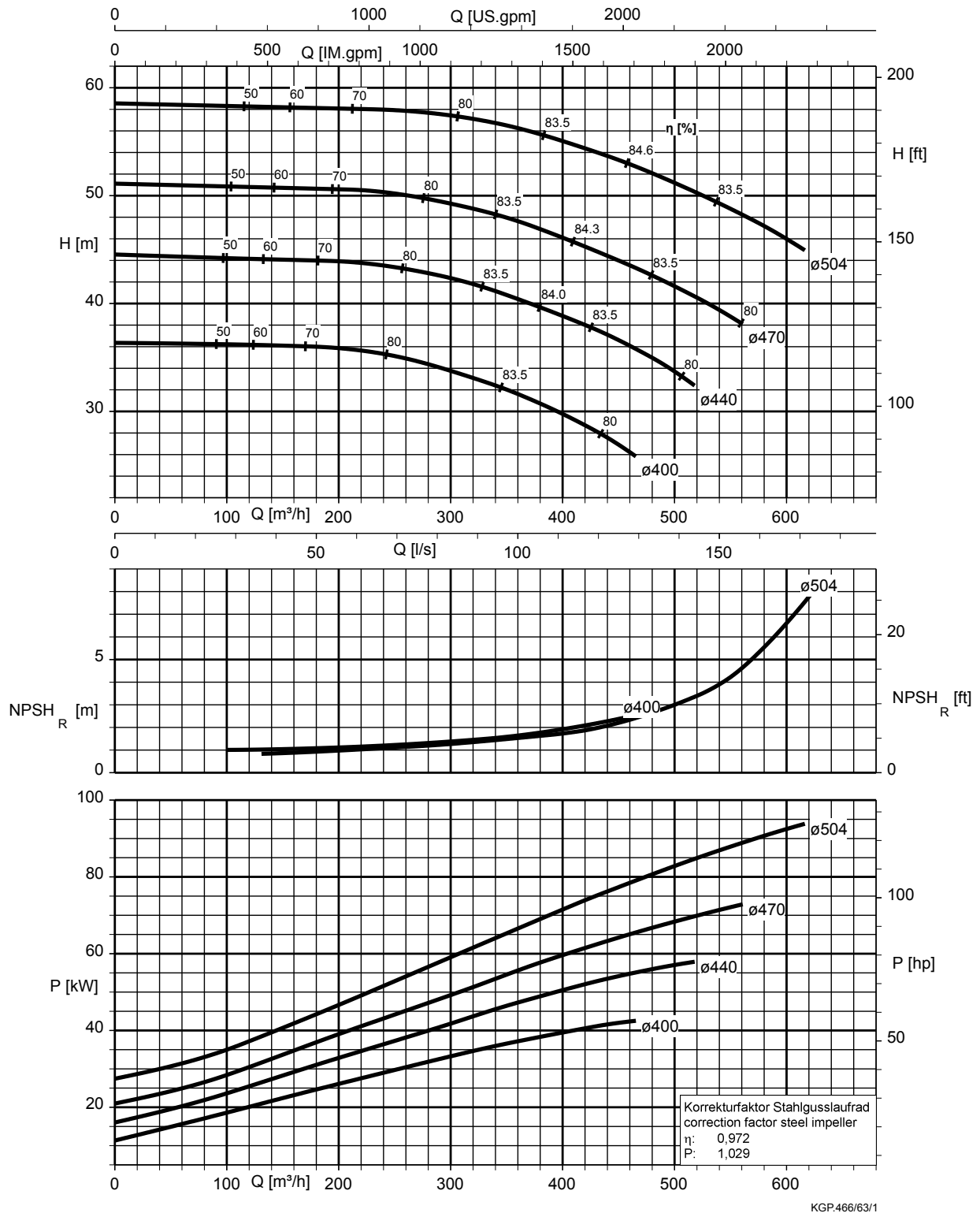
HPK-L, Magnochem, Meganorm



KGP.466/62/1

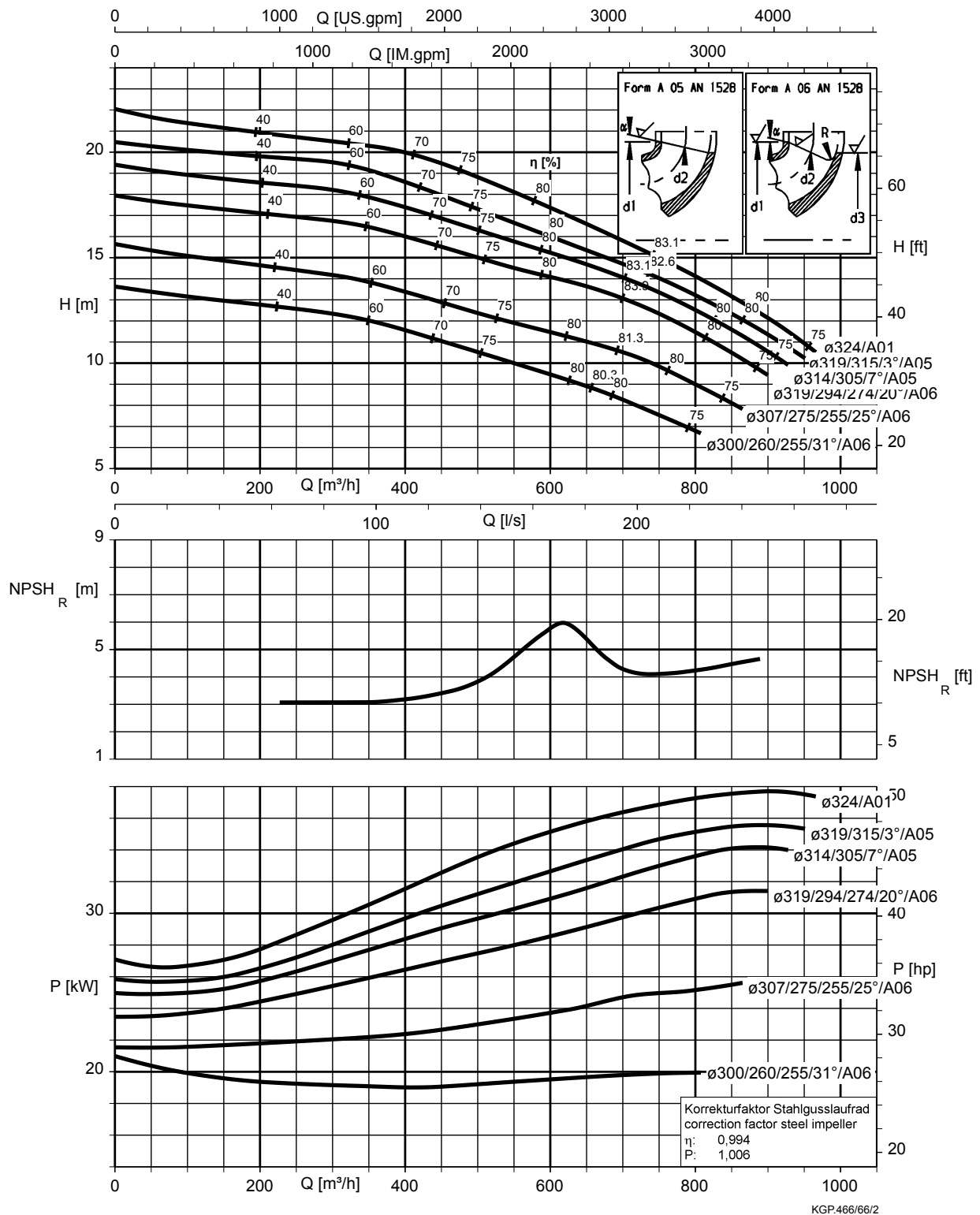
MegaCPK 250-200-500, n = 1160 rpm

HPK-L, Magnochem, Meganorm



MegaCPK 300-250-315, n = 1160 rpm

HPK-L, Magnochem, Meganorm





KSB Aktiengesellschaft

67225 Frankenthal • Johann-Klein-Str. 9 • 67227 Frankenthal (Deutschland)
Tel. +49 6233 86-0 • Fax +49 6233 86-3401
www.ksb.de

KSB Bombas Hidráulicas SA

Rua José Rabello Portella, 638
13220-540 - Várzea Paulista - SP - Brasil
Tel.: +55 11 4596 8500 • Fax: +55 11 4596 8580
www.ksb.com.br

KSB Pumps Limited

Plot no. E3 & E4, MIDC, Sinnar, (Malegaon) • Nashik 422 113
Tel. +91 2551 230252
Tel. +91 2551 230253
Tel. +91 2551 229700
Fax +91 2551 230254 • www.ksbindia.co.in