

Standardised Pump / Close-coupled Pump

Etachrom L / Etachrom B

50 Hz / 60 Hz

Characteristic Curves Booklet



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Characteristic Curves Booklet Etachrom L / Etachrom B

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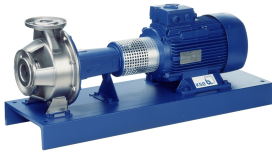
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Centrifugal Pumps with Shaft Seal

Annular Casing Pump / Close-coupled Annular Casing Pump

Etachrom L / Etachrom B



Etachrom L



Etachrom B

General

The NPSH values given in the performance curves are minimum values which correspond to the cavitation limit. They apply to degassed water. For safety reasons, the curve values shall therefore be increased by at least 0.5 m for the application.

Test class

Characteristic curves to ISO 9906 Class 3B

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 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 a viscosity $> 20 \text{ mm}^2/\text{s}$ the corresponding data for cold water has to be calculated and the impact on the pump's performance has to be determined.

The motor ratings are valid for an ambient temperature of up to $40 \text{ }^\circ\text{C}$ and an altitude of up to 1000 m above sea level.

Drive

- KSB IEC frame standardised IE2 motor (from 0.75 kW)
- Type of construction V1 $\leq 4 \text{ kW}$
- Type of construction V15 $> 4 \text{ kW}$
- 50 Hz winding, 220-240 V/380-420 V $\leq 2.20 \text{ kW}$
- 50 Hz winding, 380-420 V/660-725 V $\geq 3.00 \text{ kW}$
- Winding 60 Hz, 3~ 440-480 V $\geq 2.41 \text{ hp}$ (1.80 kW)
- IP55 enclosure
- Thermal class F

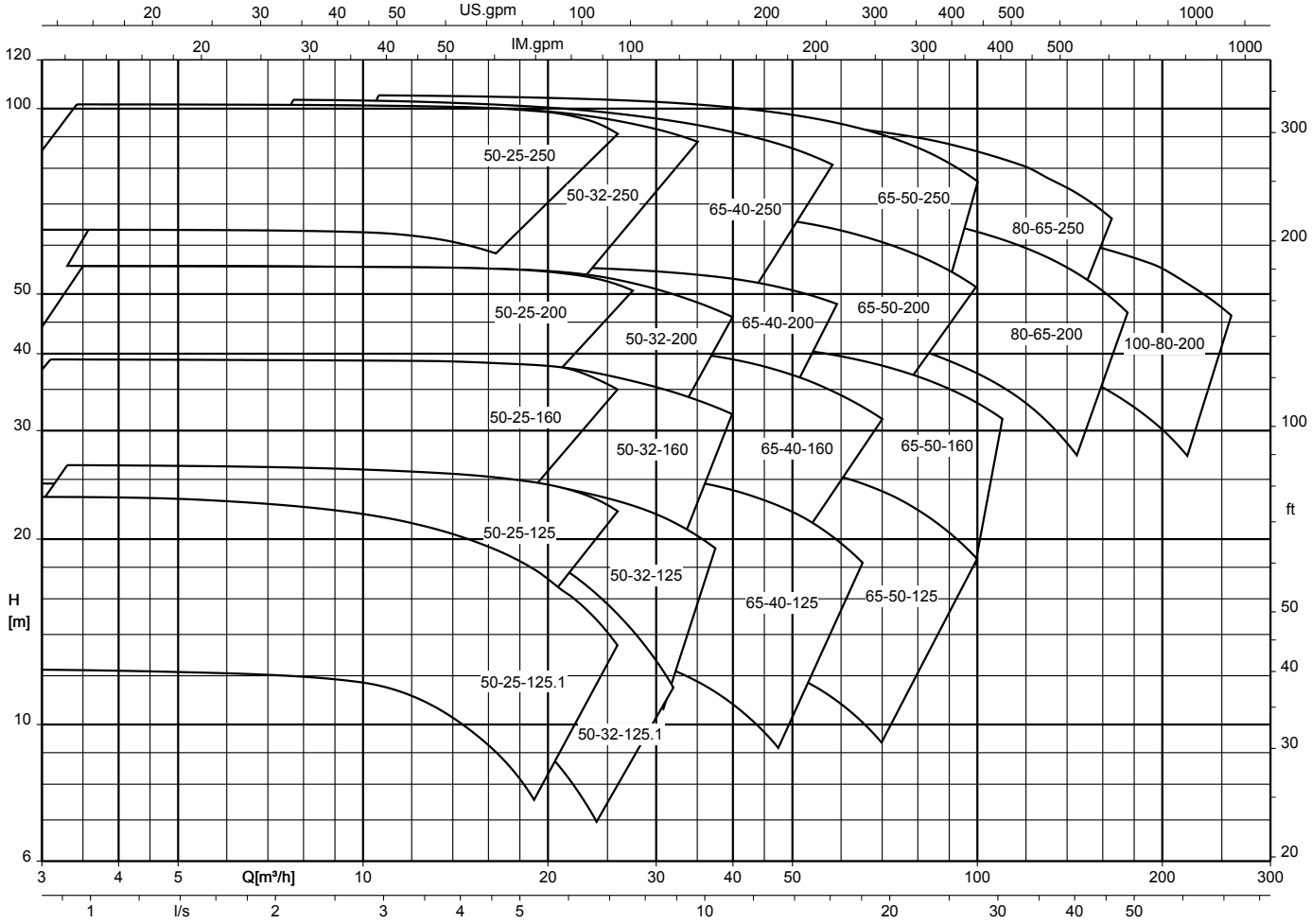
Overview of sizes

Overview of sizes

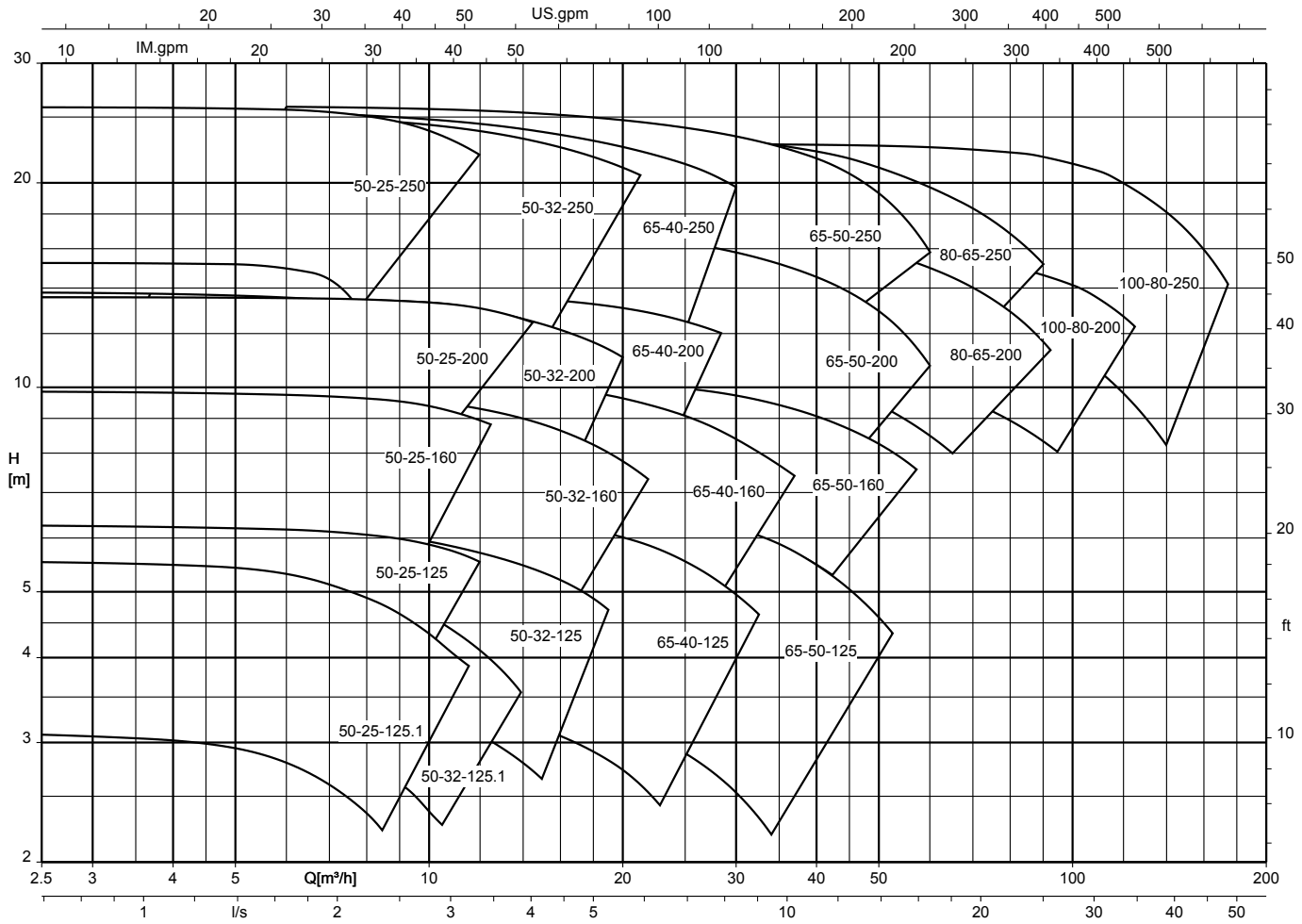
Size		50 Hz		60 Hz	
		2900 rpm ⁻¹	1450 rpm ⁻¹	3500 rpm ⁻¹	1750 rpm ⁻¹
Etachrom L / Etachrom B	050 - 025 - 125	(⇒ Page 10)	(⇒ Page 32)	(⇒ Page 55)	(⇒ Page 71)
Etachrom L / Etachrom B	050 - 025 - 125.1	(⇒ Page 11)	(⇒ Page 33)	(⇒ Page 56)	(⇒ Page 72)
Etachrom L / Etachrom B	050 - 025 - 160	(⇒ Page 12)	(⇒ Page 34)	(⇒ Page 57)	(⇒ Page 73)
Etachrom L / Etachrom B	050 - 025 - 200	(⇒ Page 13)	(⇒ Page 35)	(⇒ Page 58)	(⇒ Page 74)
Etachrom L / Etachrom B	050 - 025 - 250	(⇒ Page 14)	(⇒ Page 36)	-	(⇒ Page 75)
Etachrom L / Etachrom B	050 - 032 - 125	(⇒ Page 15)	(⇒ Page 37)	(⇒ Page 59)	(⇒ Page 76)
Etachrom L / Etachrom B	050 - 032 - 125.1	(⇒ Page 16)	(⇒ Page 38)	(⇒ Page 60)	(⇒ Page 77)
Etachrom L / Etachrom B	050 - 032 - 160	(⇒ Page 17)	(⇒ Page 39)	(⇒ Page 61)	(⇒ Page 78)
Etachrom L / Etachrom B	050 - 032 - 200	(⇒ Page 18)	(⇒ Page 40)	(⇒ Page 62)	(⇒ Page 79)
Etachrom L / Etachrom B	050 - 032 - 250	(⇒ Page 19)	(⇒ Page 41)	-	(⇒ Page 80)
Etachrom L / Etachrom B	065 - 040 - 125	(⇒ Page 20)	(⇒ Page 42)	(⇒ Page 63)	(⇒ Page 81)
Etachrom L / Etachrom B	065 - 040 - 160	(⇒ Page 21)	(⇒ Page 43)	(⇒ Page 64)	(⇒ Page 82)
Etachrom L / Etachrom B	065 - 040 - 200	(⇒ Page 22)	(⇒ Page 44)	(⇒ Page 65)	(⇒ Page 83)
Etachrom L / Etachrom B	065 - 040 - 250	(⇒ Page 23)	(⇒ Page 45)	-	(⇒ Page 84)
Etachrom B with free-flow impeller	065 - 050 - 125	(⇒ Page 24)	(⇒ Page 46)	(⇒ Page 66)	(⇒ Page 85)
Etachrom L / Etachrom B	065 - 050 - 125	(⇒ Page 25)	(⇒ Page 47)	(⇒ Page 67)	(⇒ Page 86)
Etachrom L / Etachrom B	065 - 050 - 160	(⇒ Page 26)	(⇒ Page 48)	(⇒ Page 68)	(⇒ Page 87)
Etachrom L / Etachrom B	065 - 050 - 200	(⇒ Page 27)	(⇒ Page 49)	(⇒ Page 69)	(⇒ Page 88)
Etachrom L / Etachrom B	065 - 050 - 250	(⇒ Page 28)	(⇒ Page 50)	-	(⇒ Page 89)
Etachrom L / Etachrom B	080 - 065 - 200	(⇒ Page 29)	(⇒ Page 51)	(⇒ Page 70)	(⇒ Page 90)
Etachrom L / Etachrom B	080 - 065 - 250	(⇒ Page 30)	(⇒ Page 52)	-	(⇒ Page 91)
Etachrom L / Etachrom B	100 - 080 - 200	(⇒ Page 31)	(⇒ Page 53)	-	(⇒ Page 92)
Etachrom L / Etachrom B	100 - 080 - 250	-	(⇒ Page 54)	-	(⇒ Page 93)

Selection charts

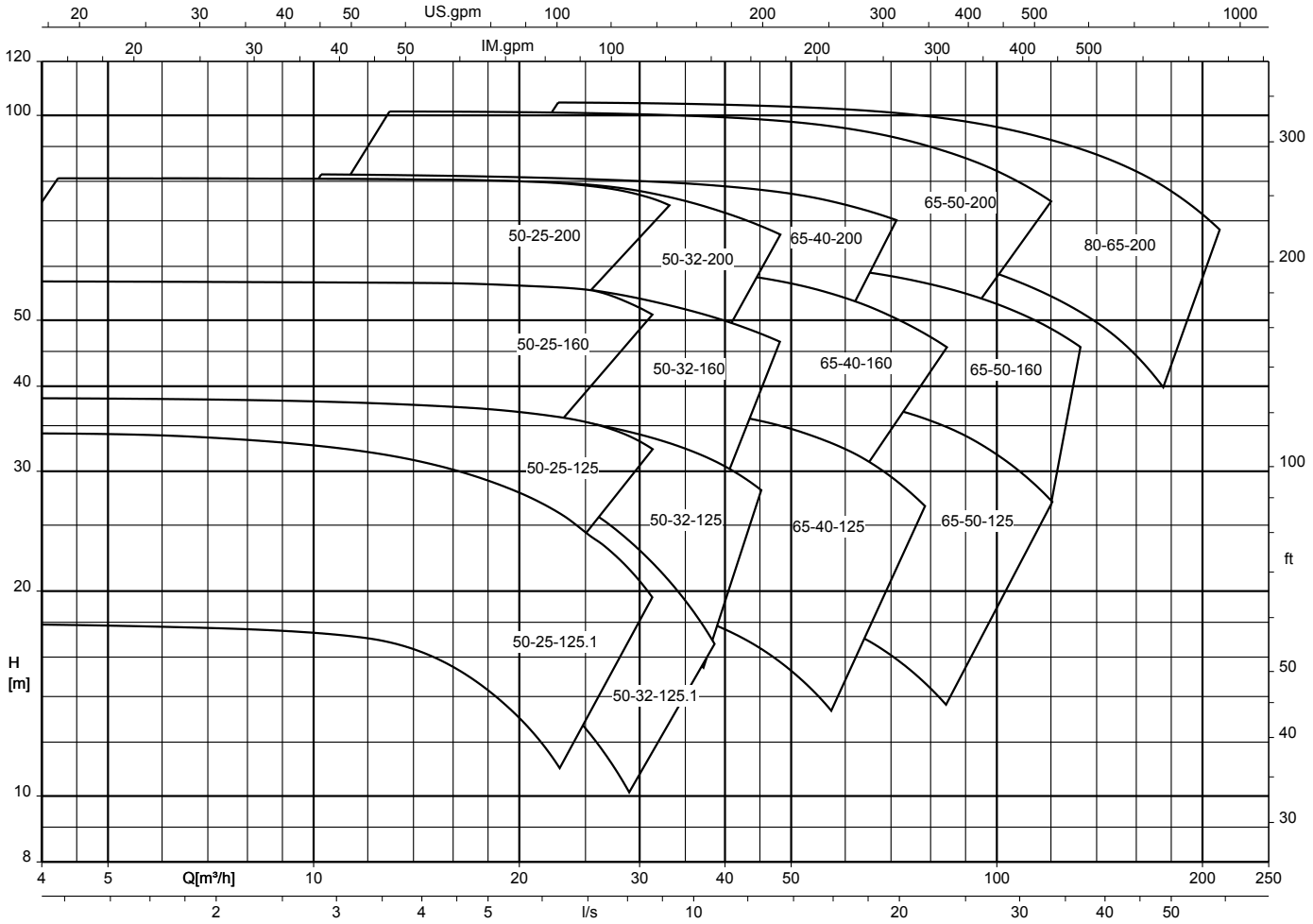
Etachrom L / Etachrom B, n = 2900 rpm



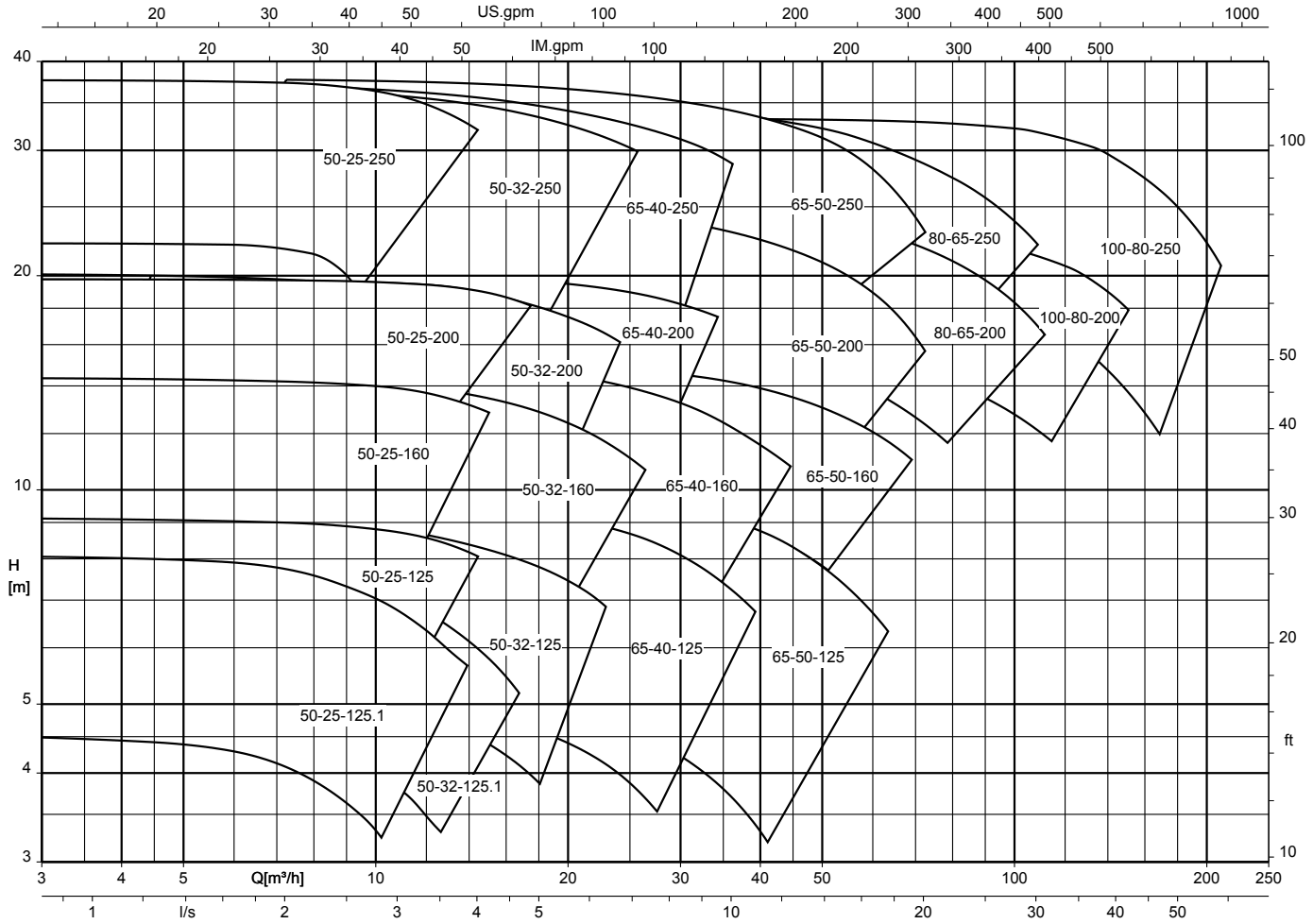
Etachrom L / Etachrom B, n = 1450 rpm



Etachrom L / Etachrom B, n = 3500 rpm



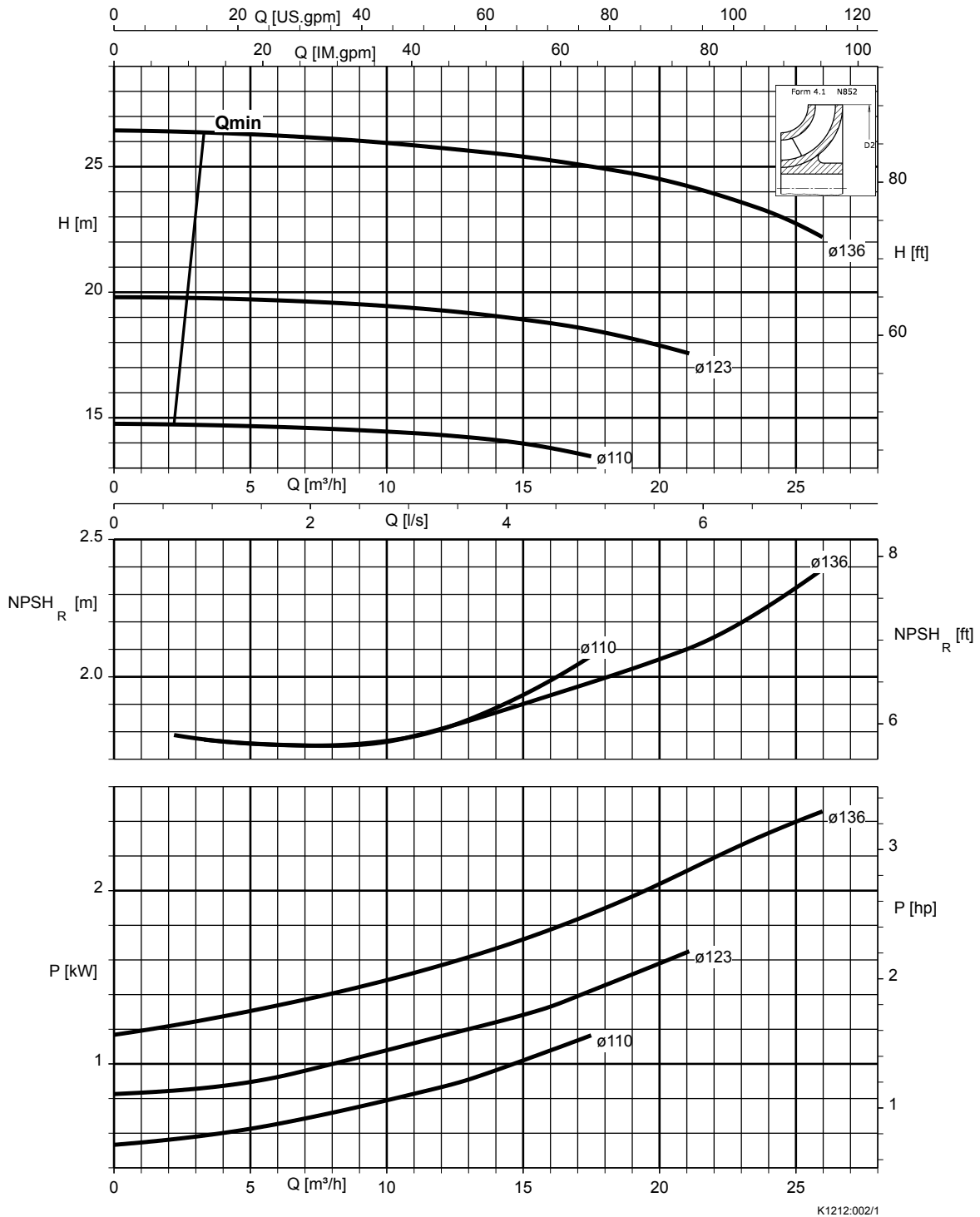
Etachrom L / Etachrom B, n = 1750 rpm



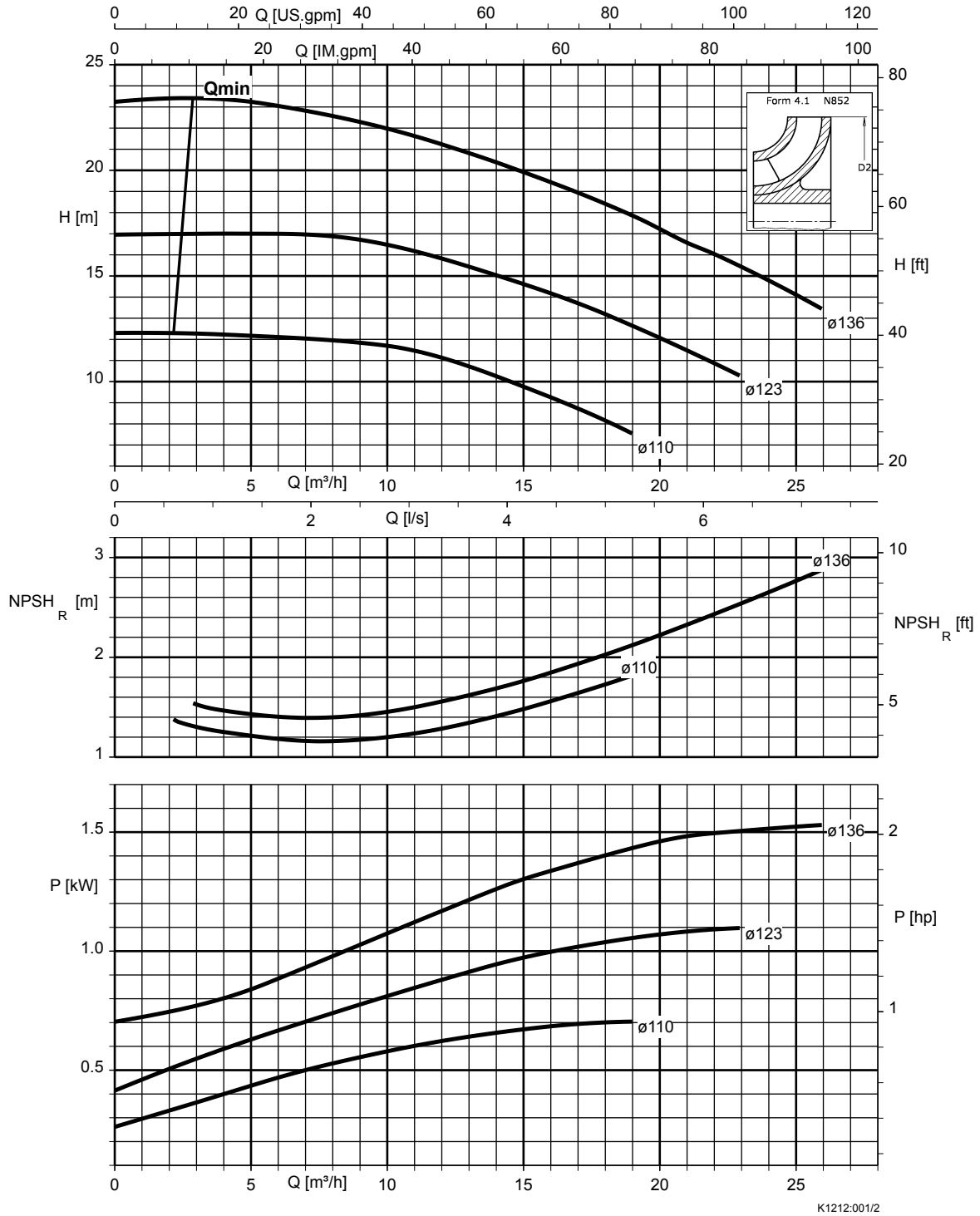
Characteristic curves

n = 2900 rpm

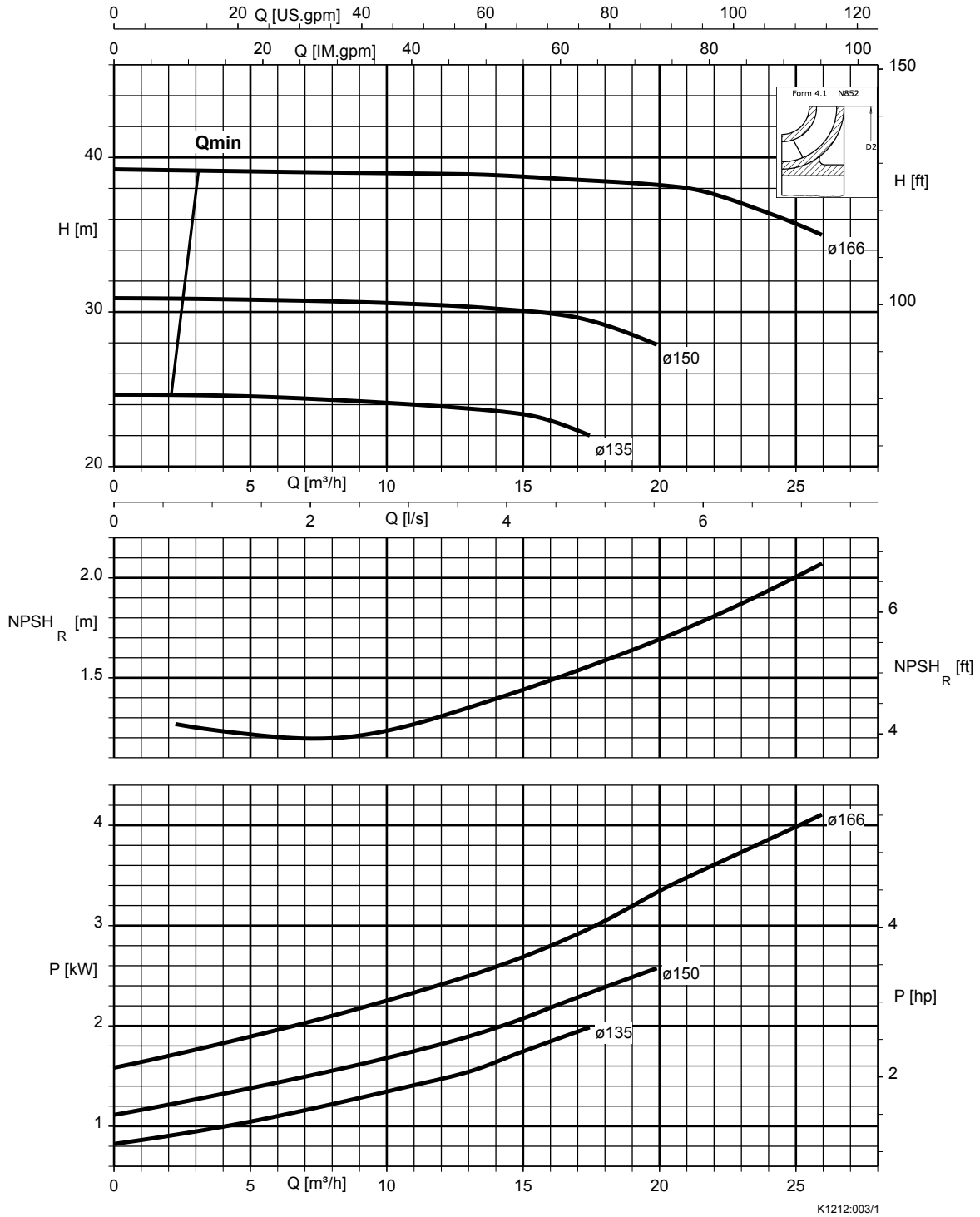
Etachrom L / Etachrom B, 050-025-125, n = 2900 rpm



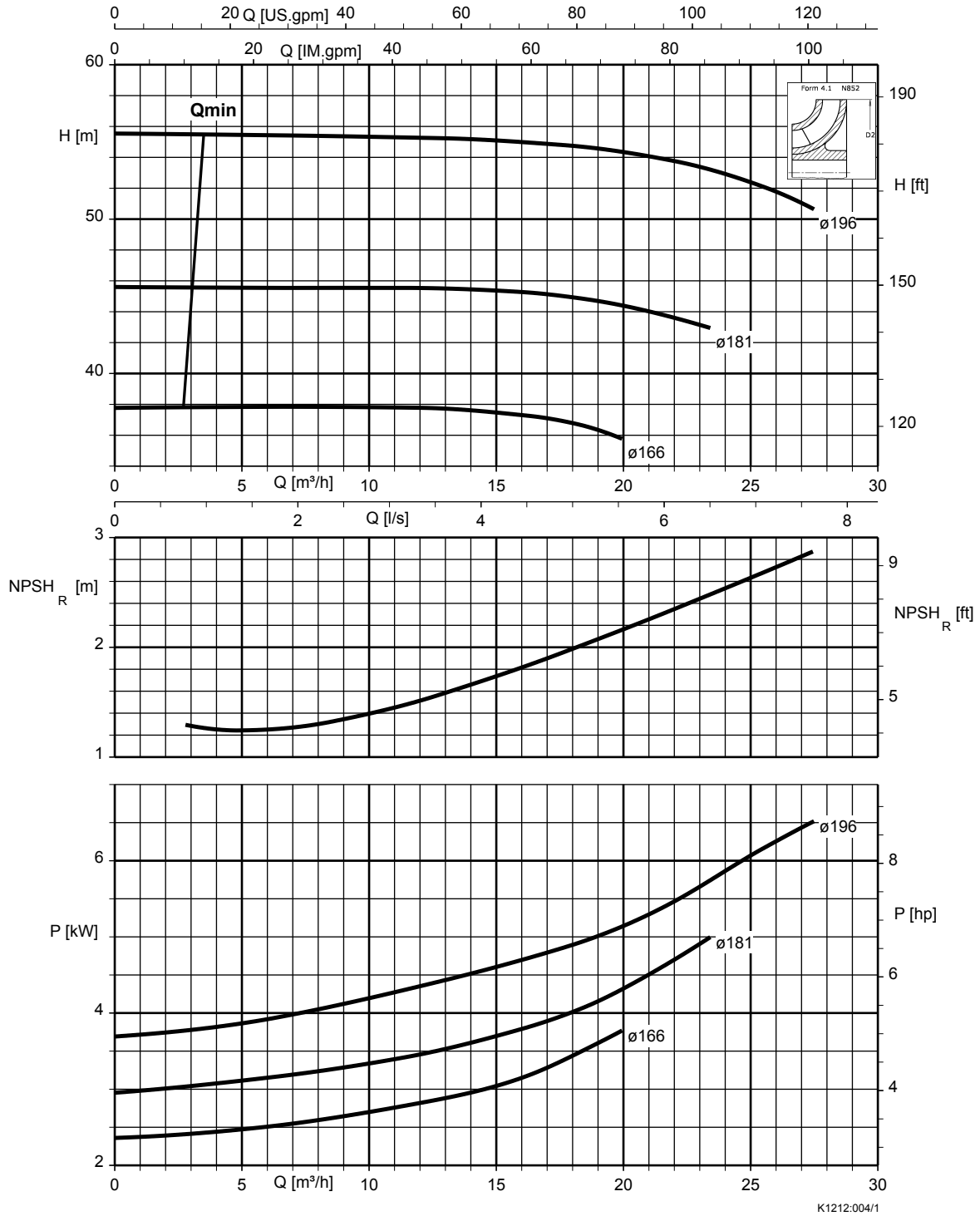
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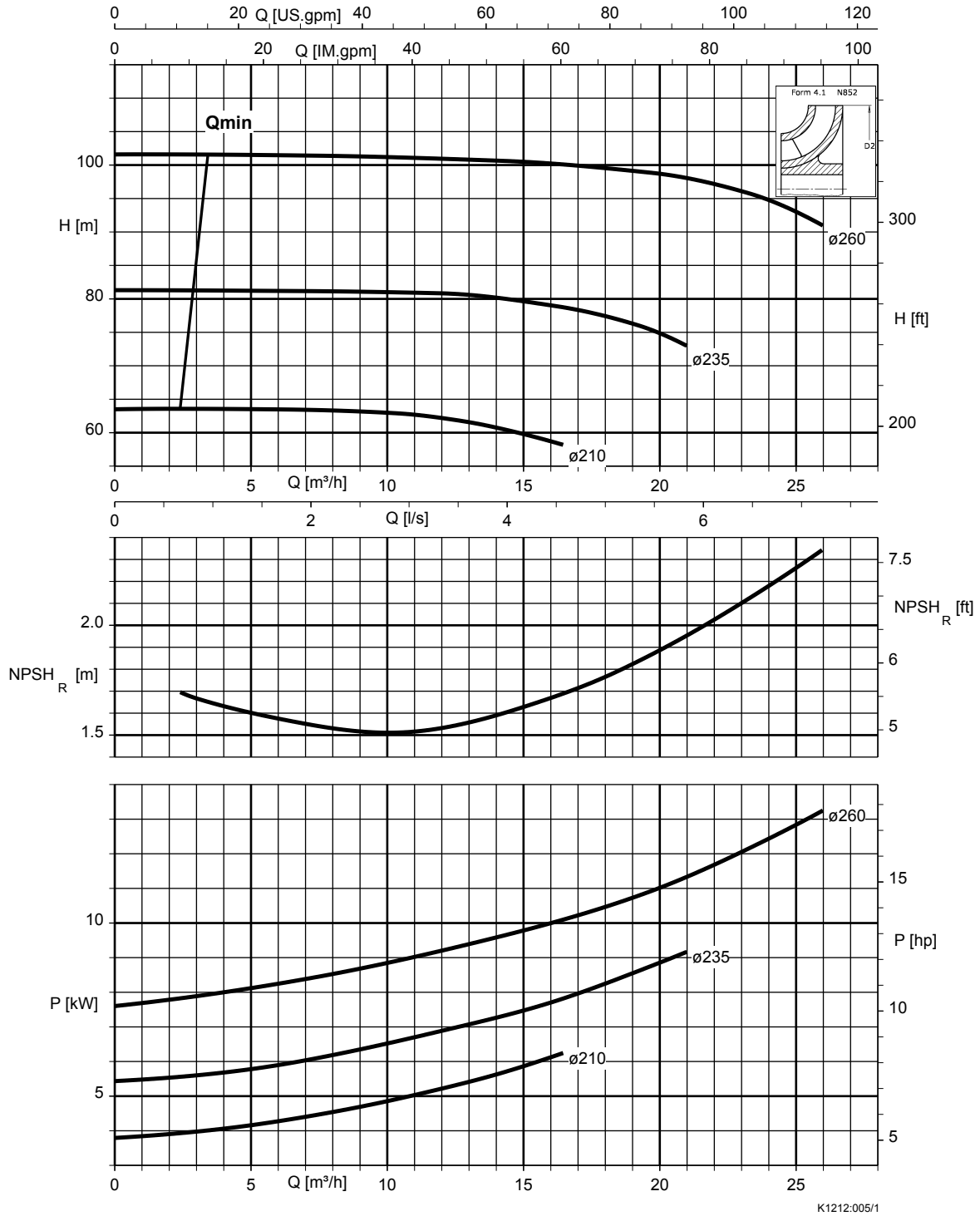
Etachrom L / Etachrom B, 050-025-160, n = 2900 rpm



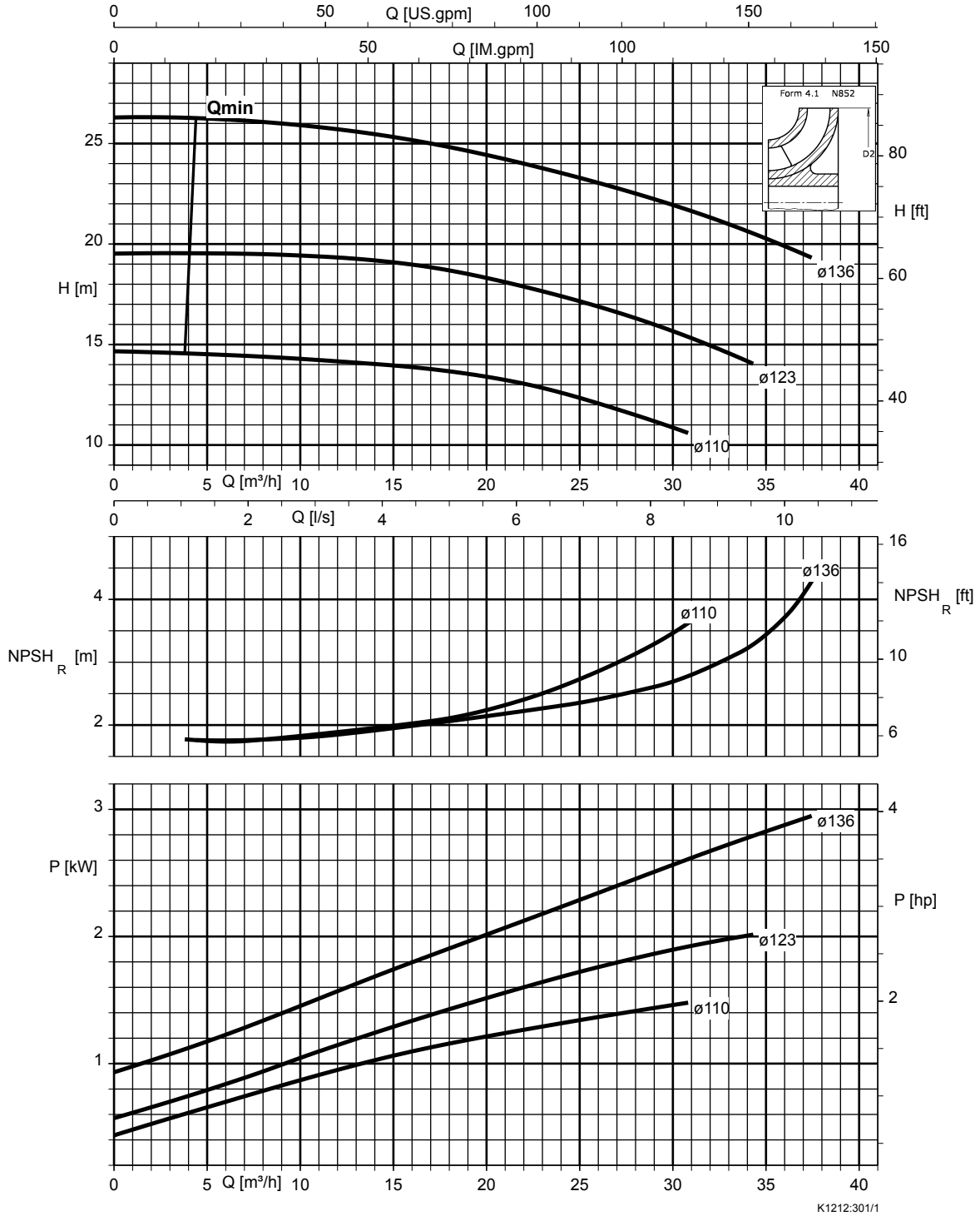
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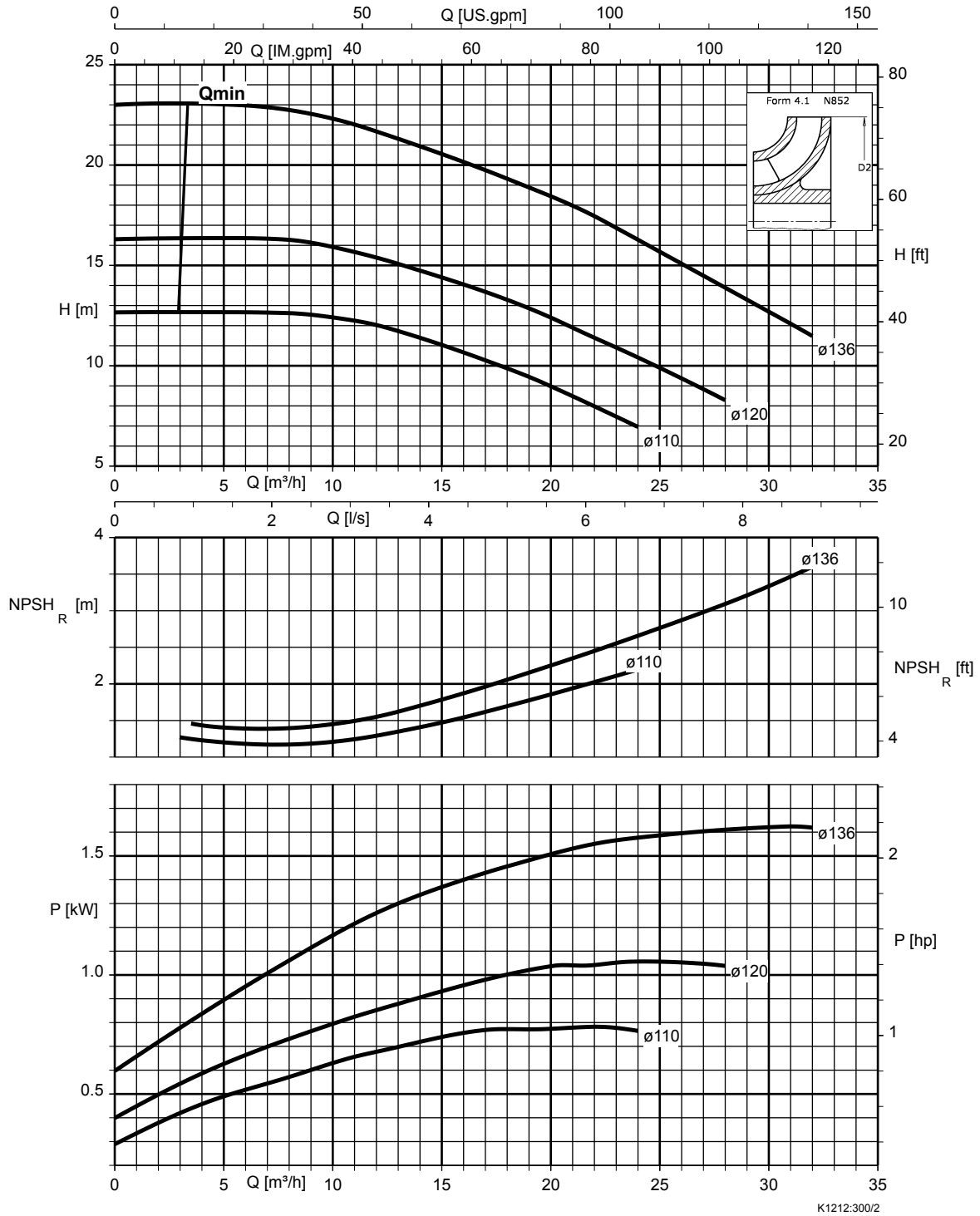
Etachrom L / Etachrom B, 050-025-250, n = 2900 rpm



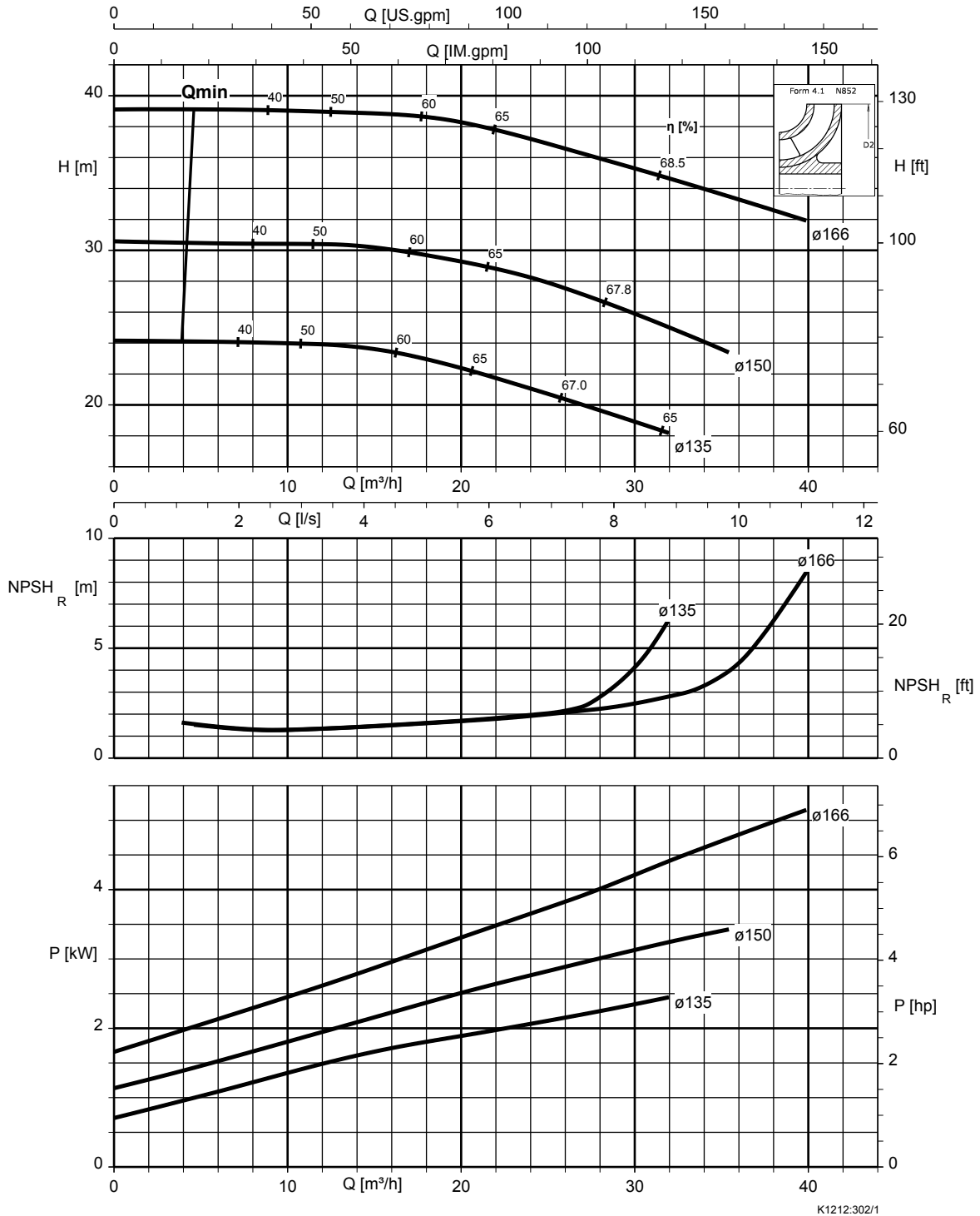
Etachrom L / Etachrom B, 050-032-125, n = 2900 rpm



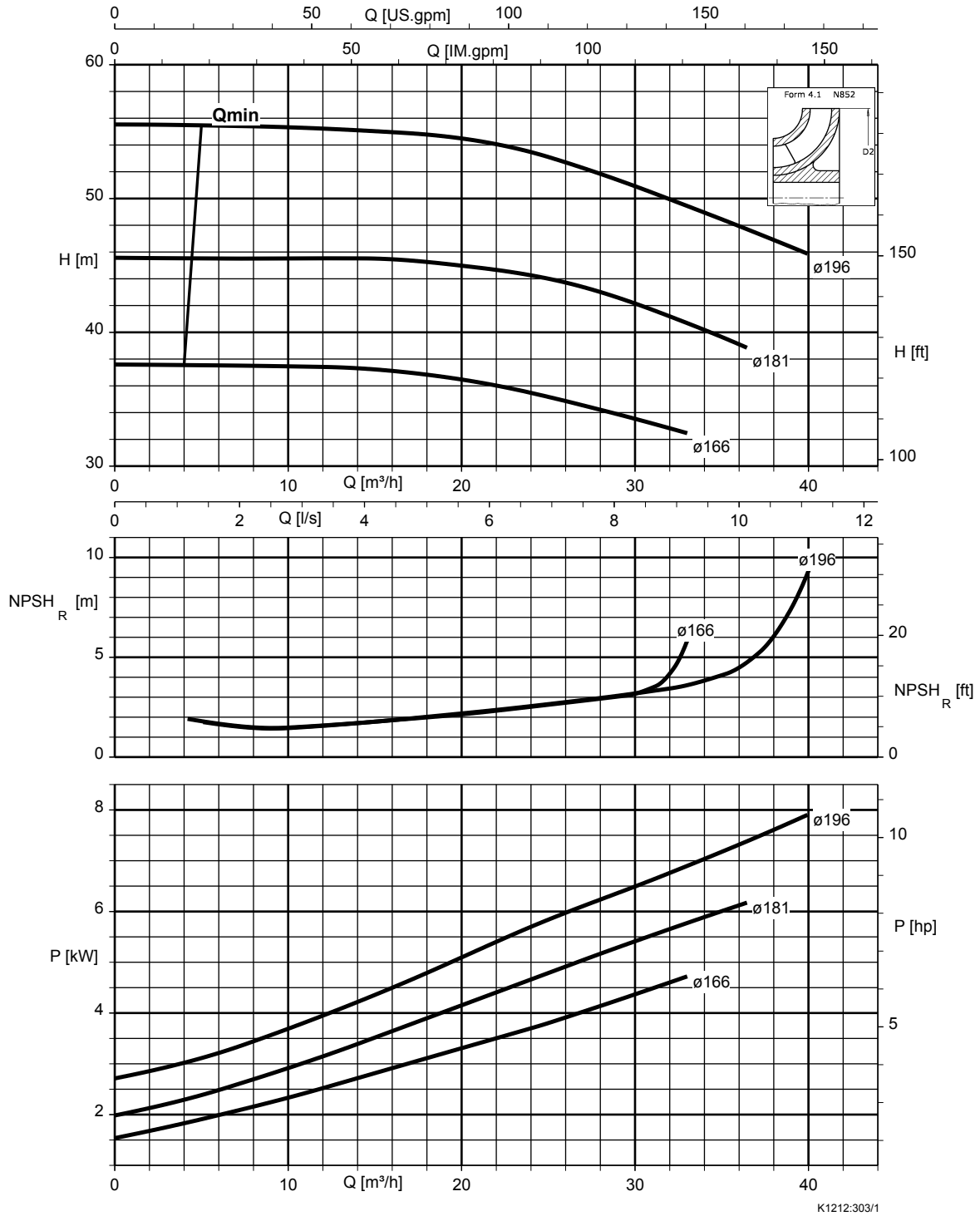
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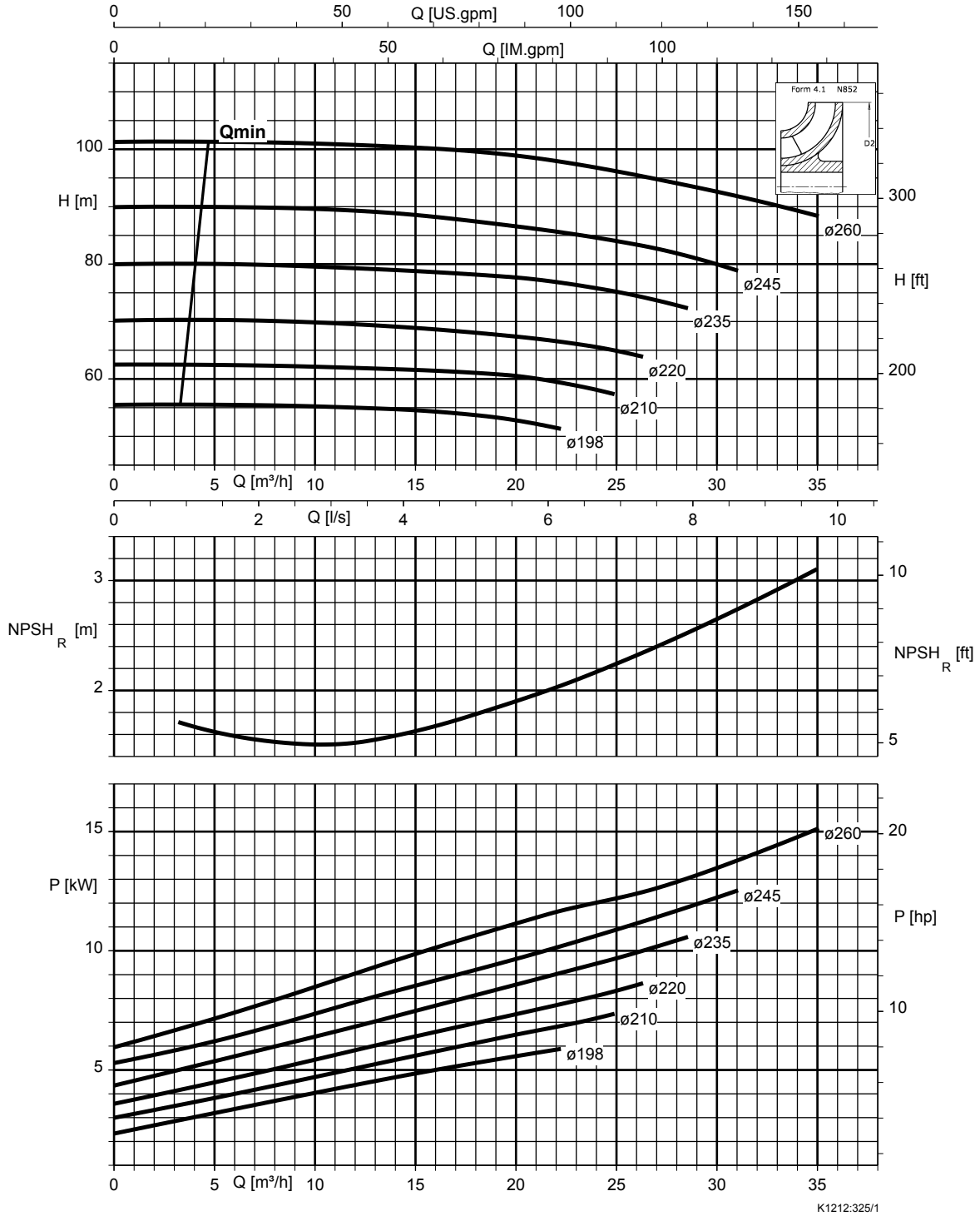
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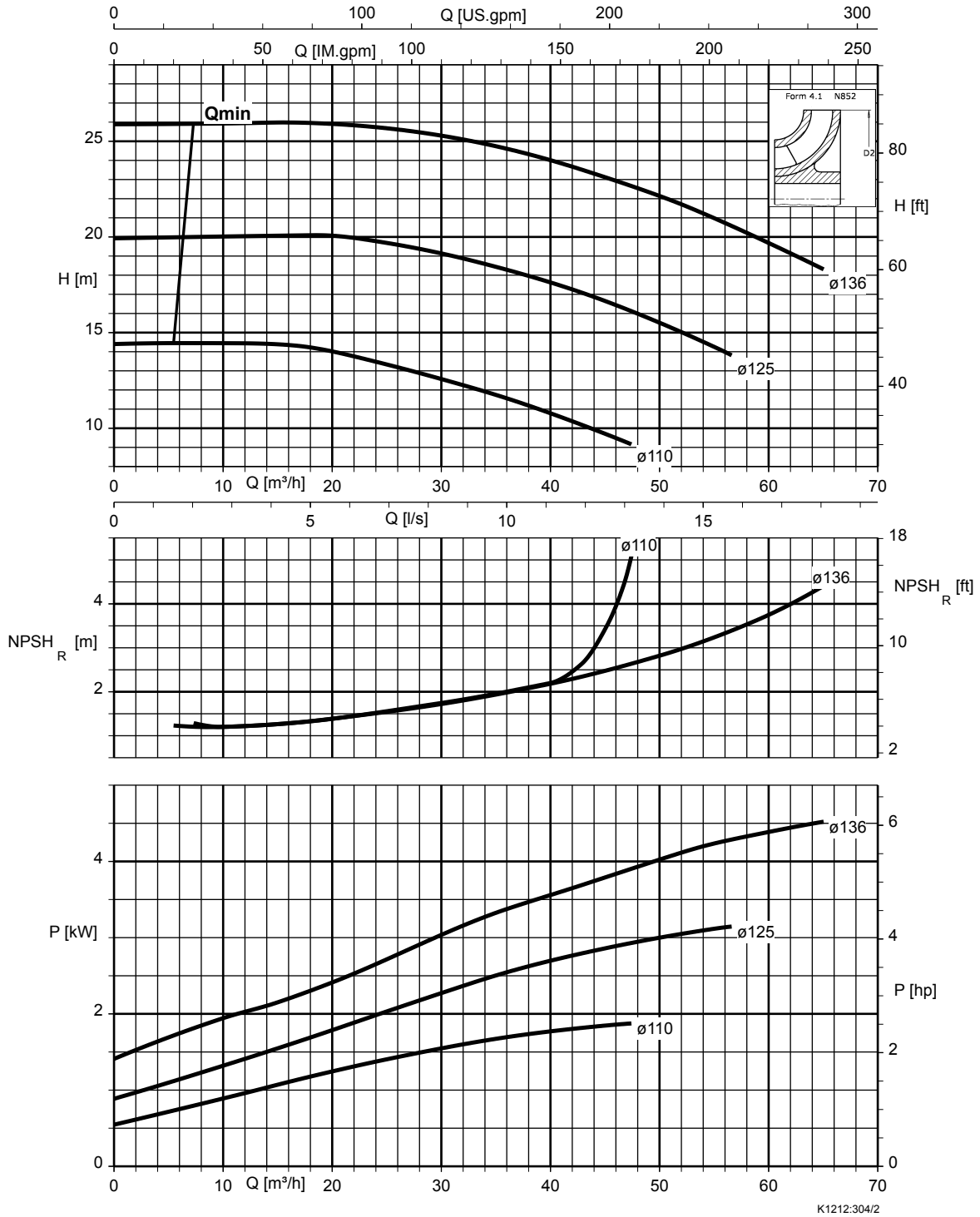
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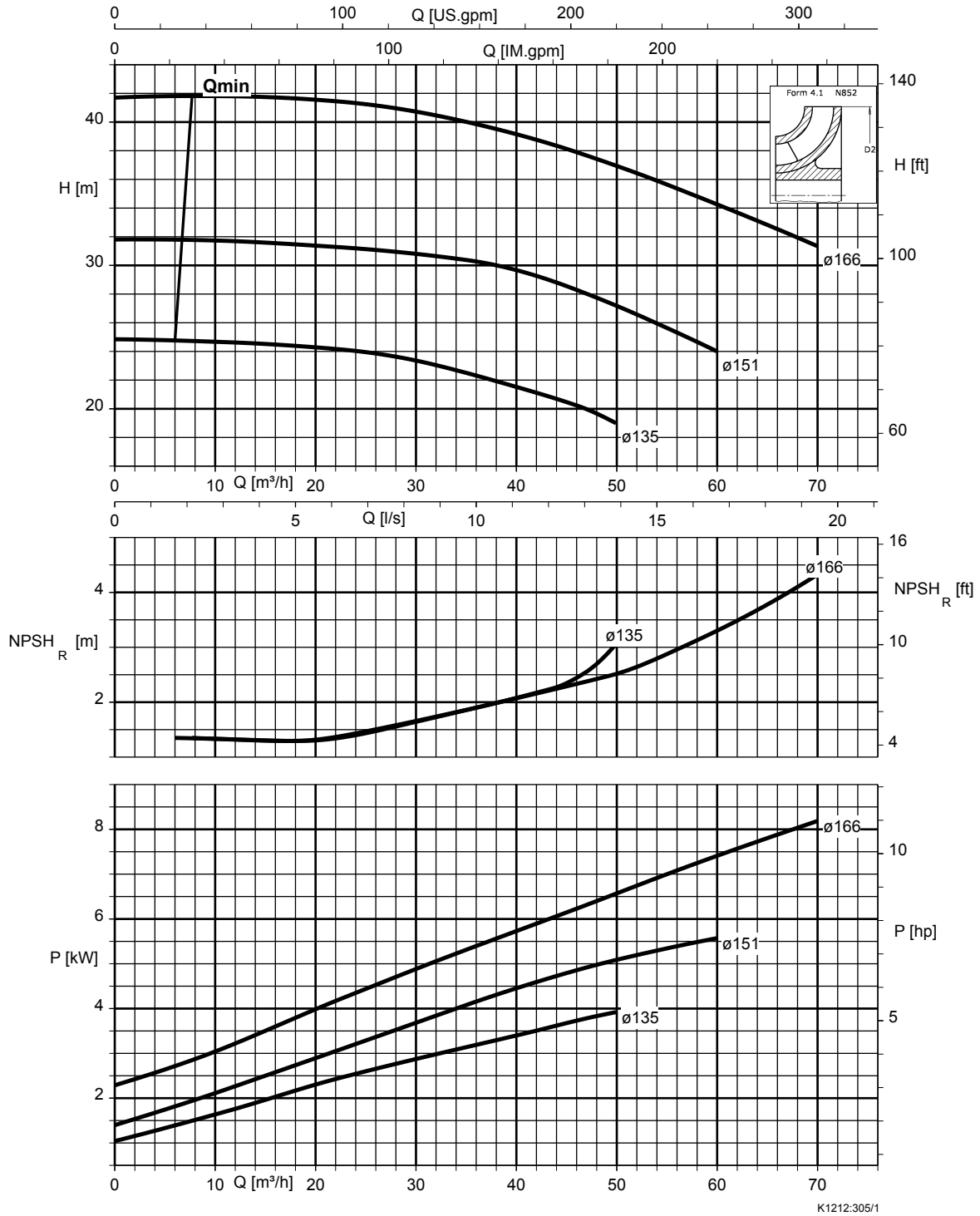
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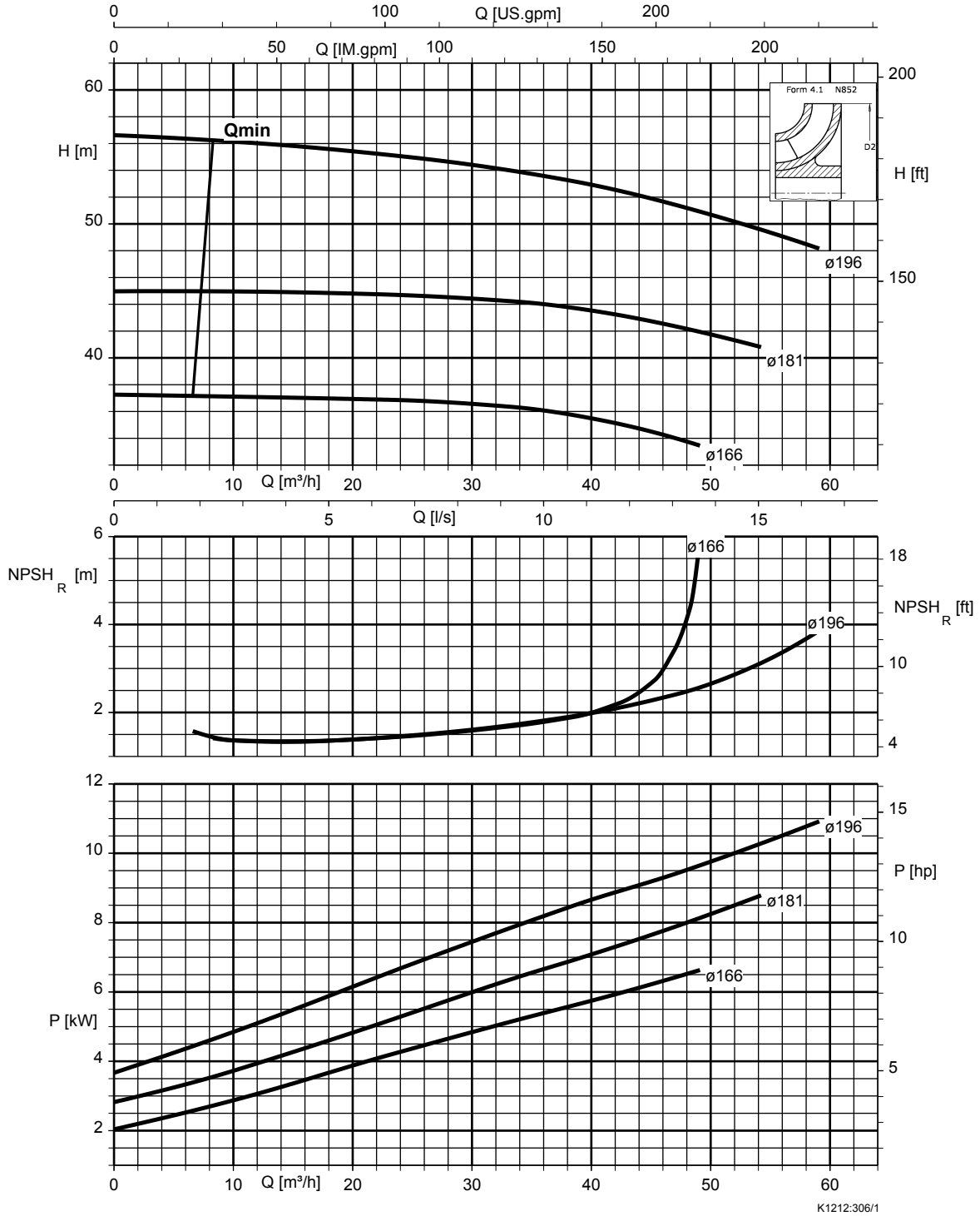
Etachrom L / Etachrom B, 065-040-125, n = 2900 rpm



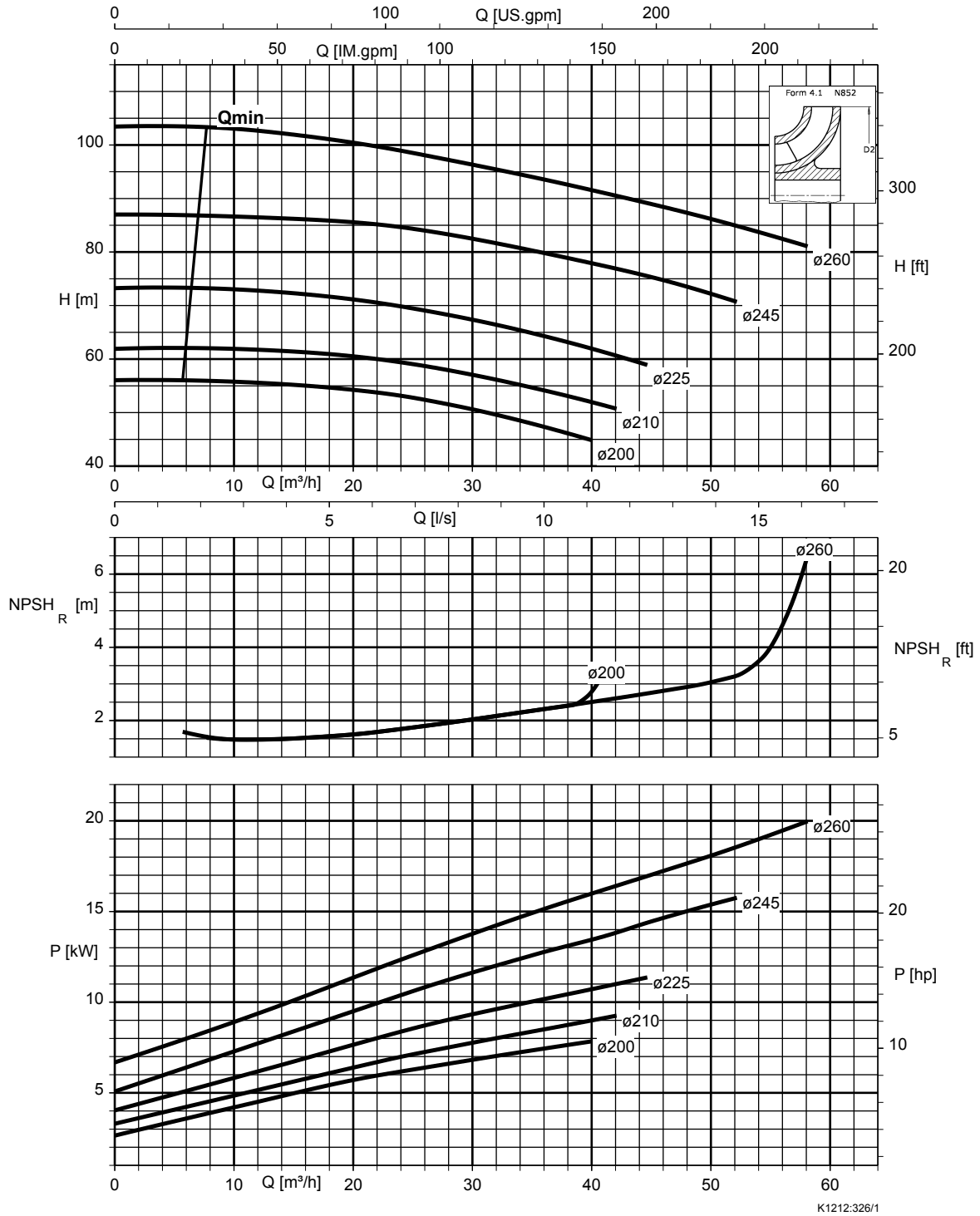
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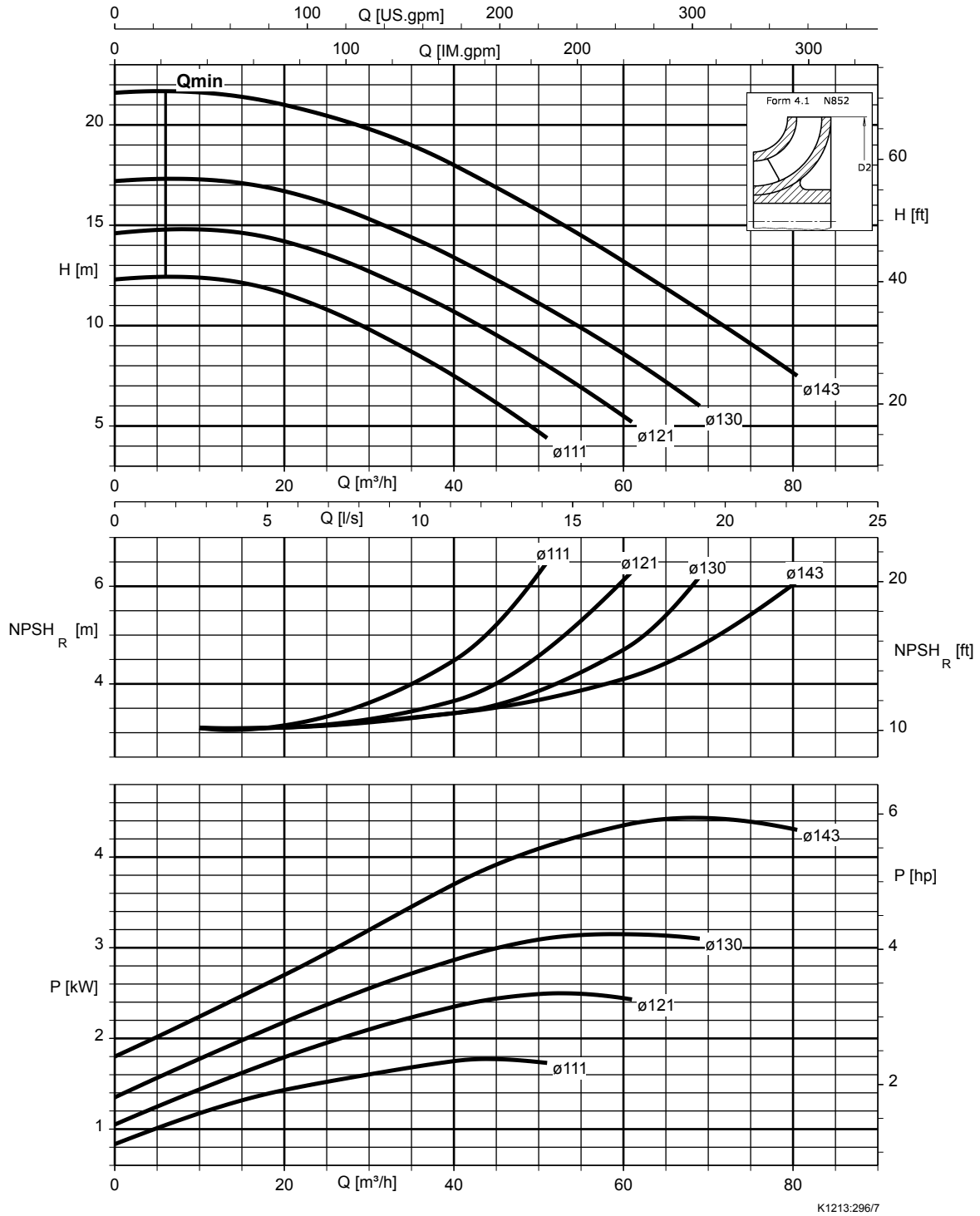
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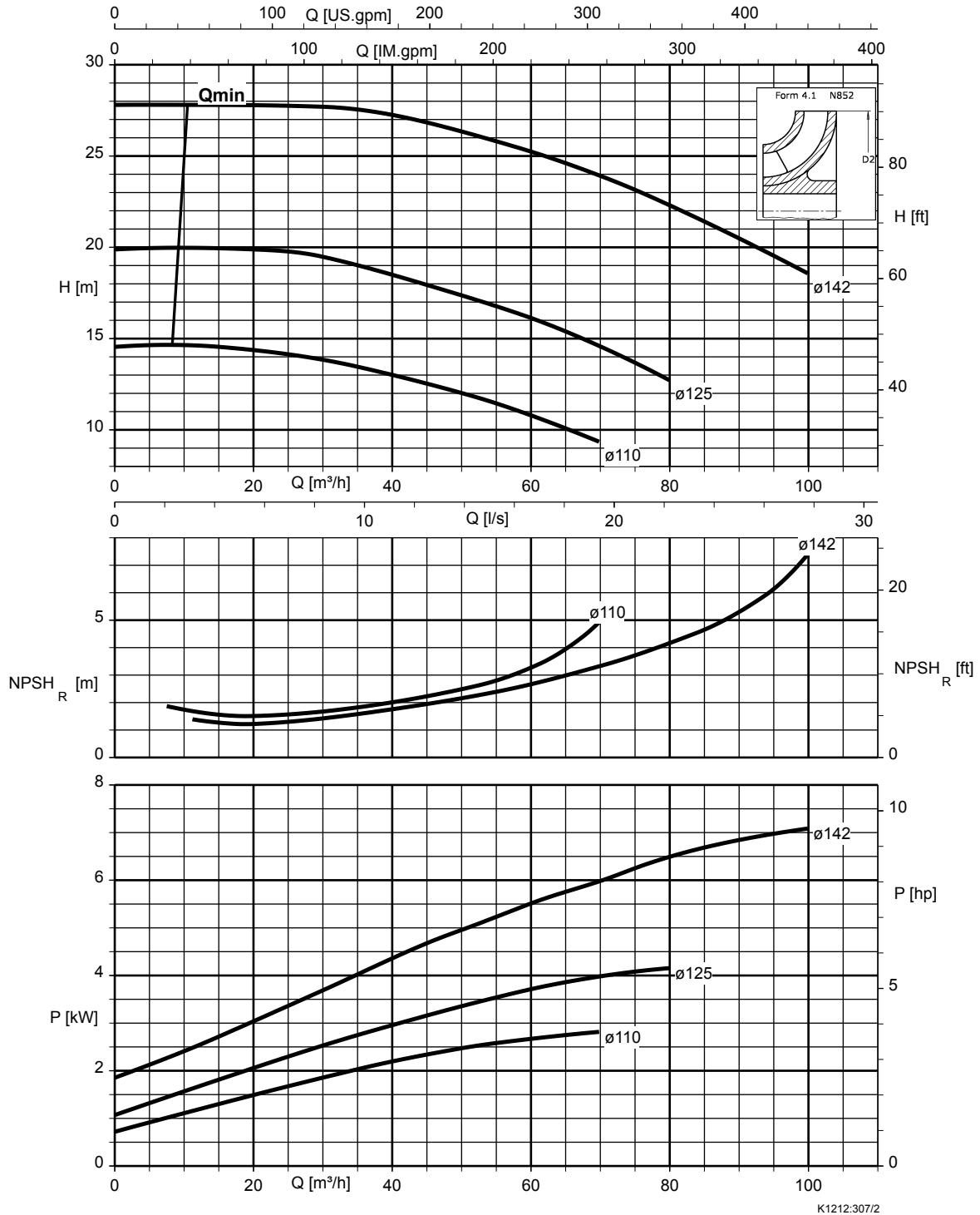
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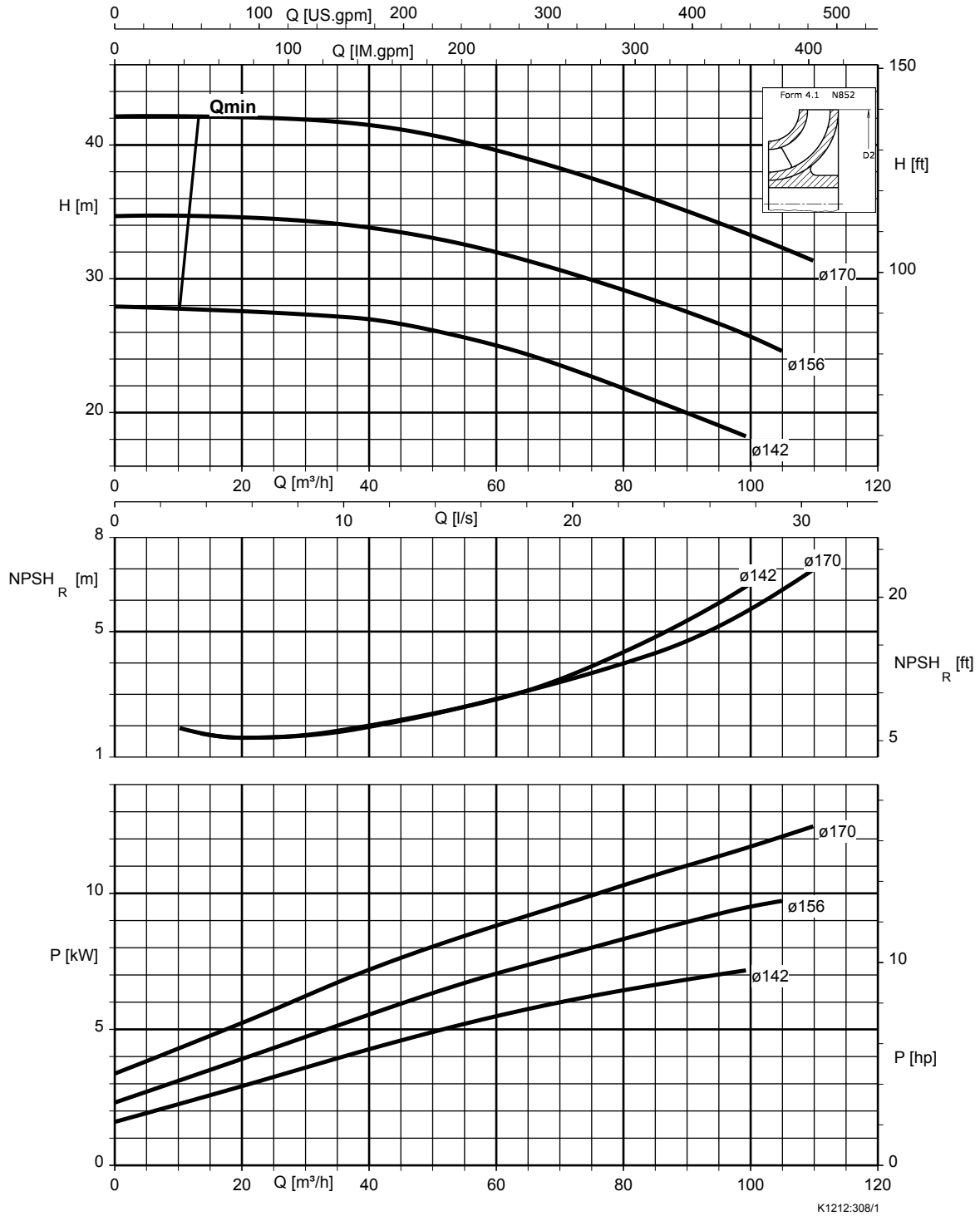
Etachrom B, 065-050-125, n = 2900 rpm, with free-flow impeller



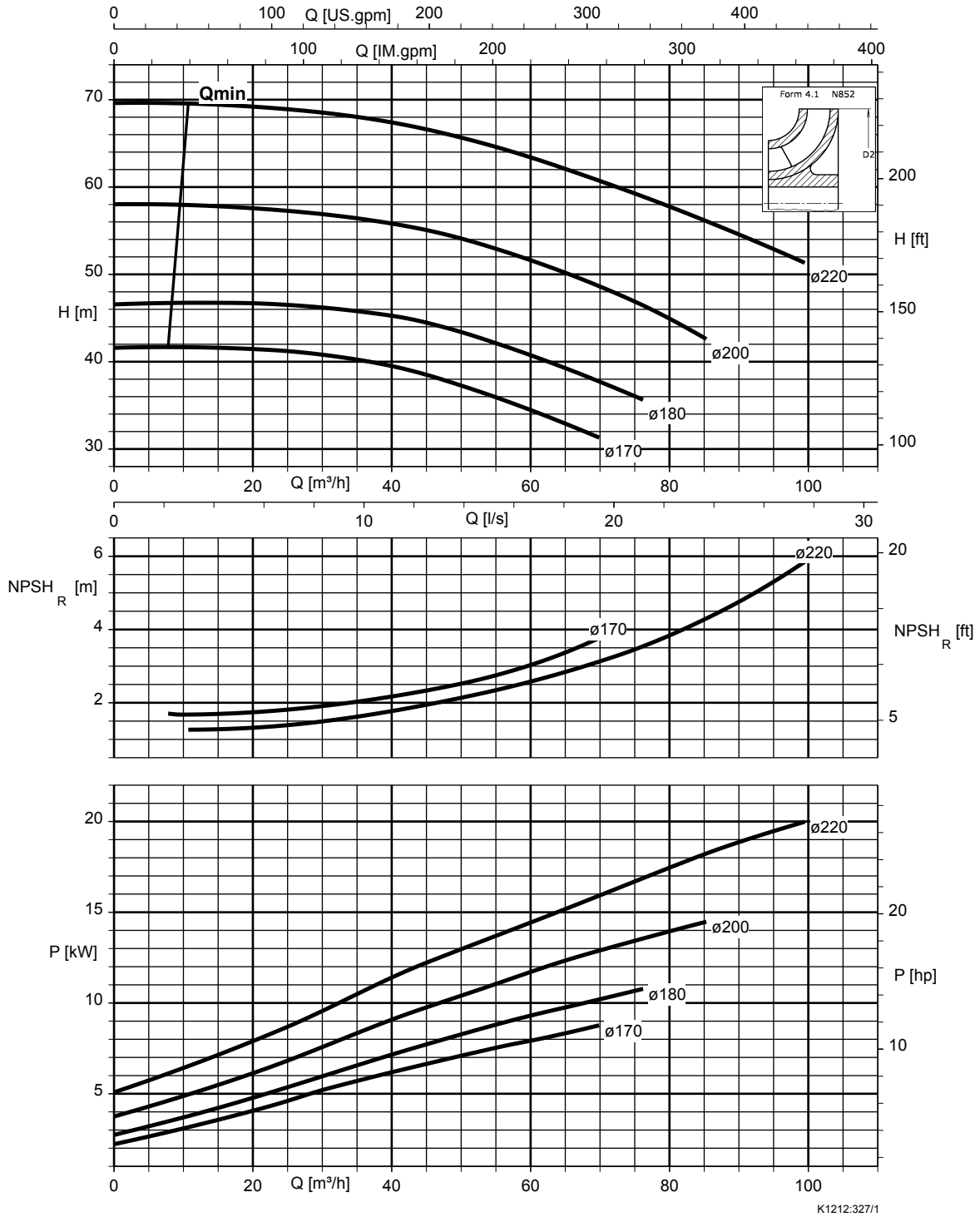
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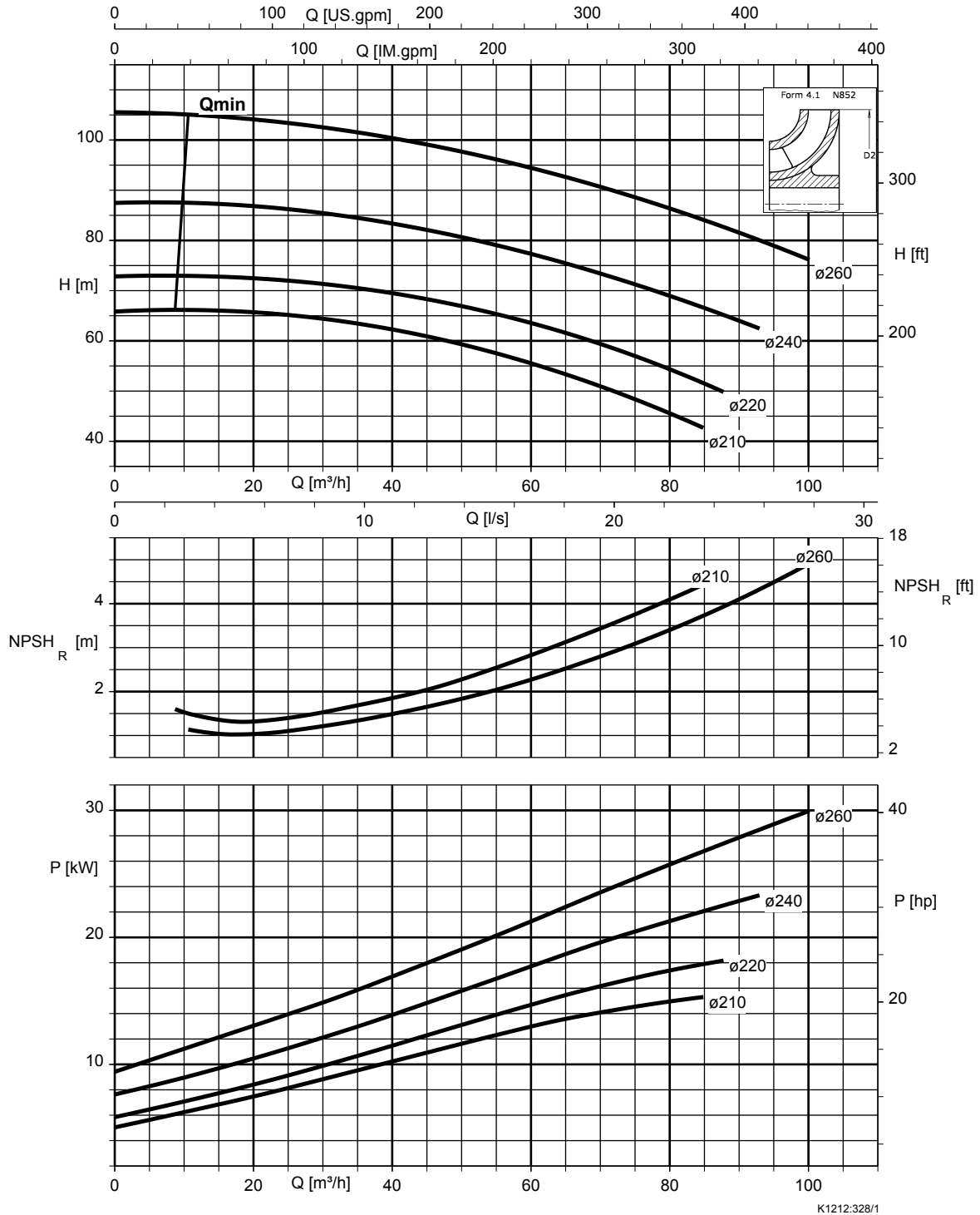
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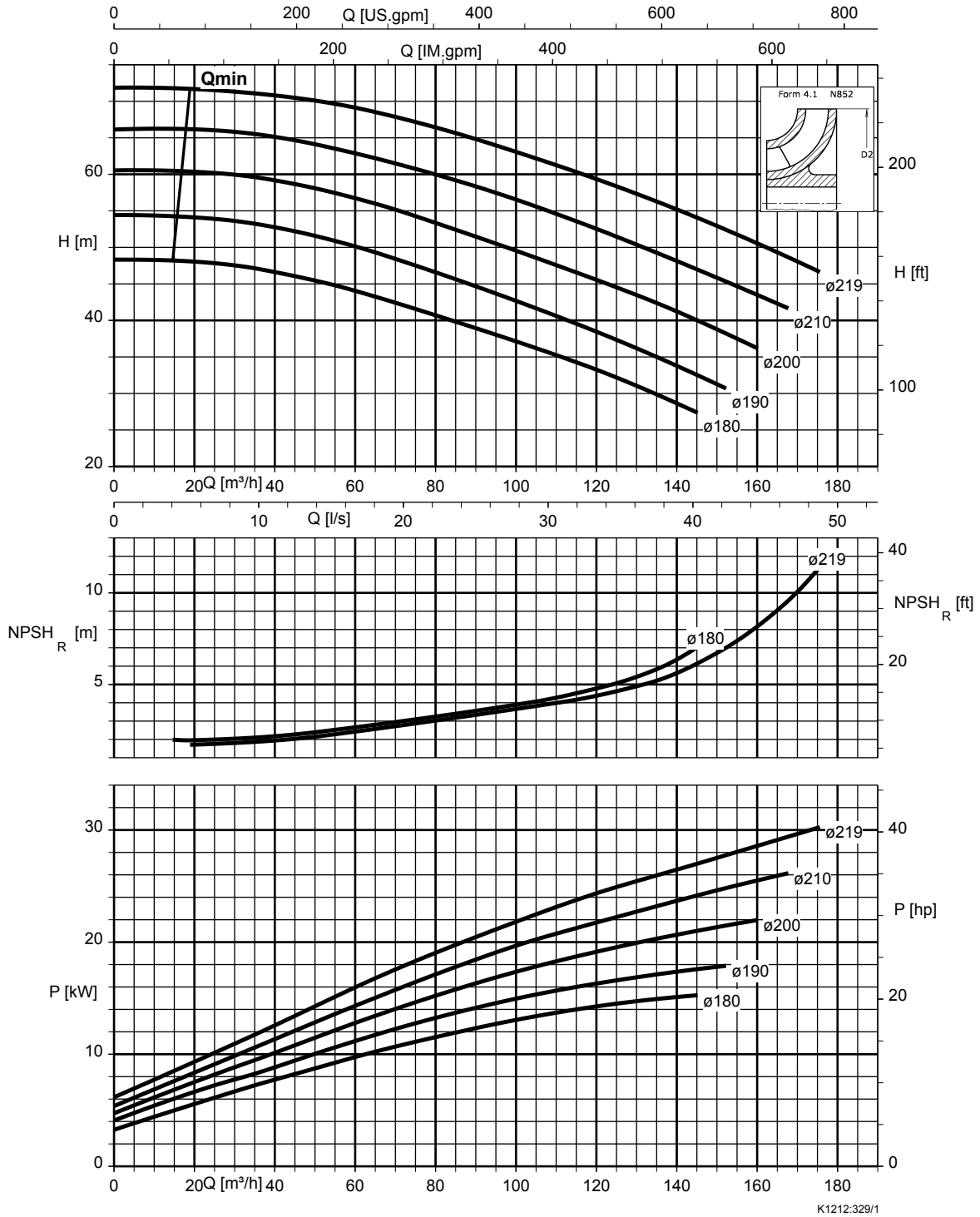
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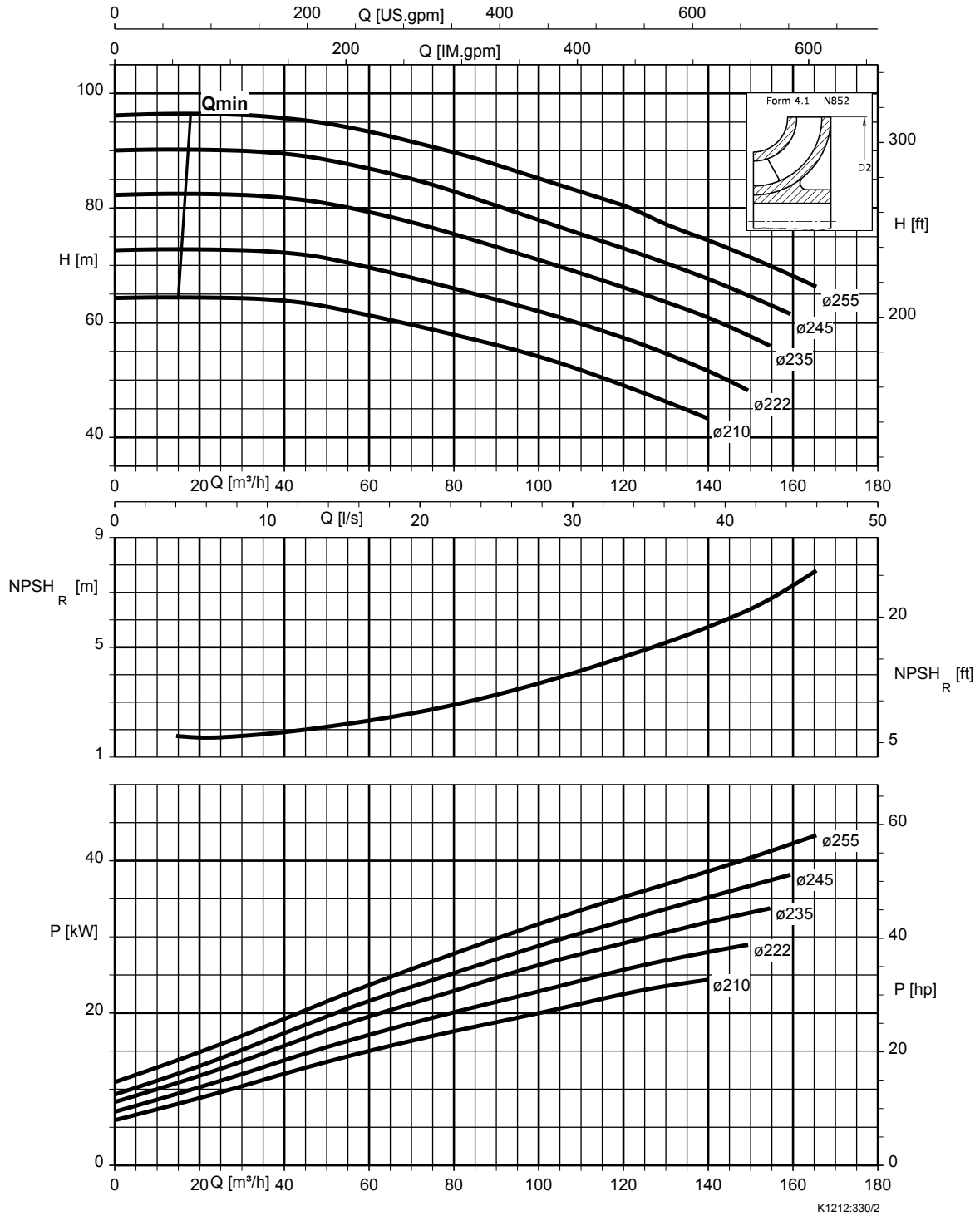
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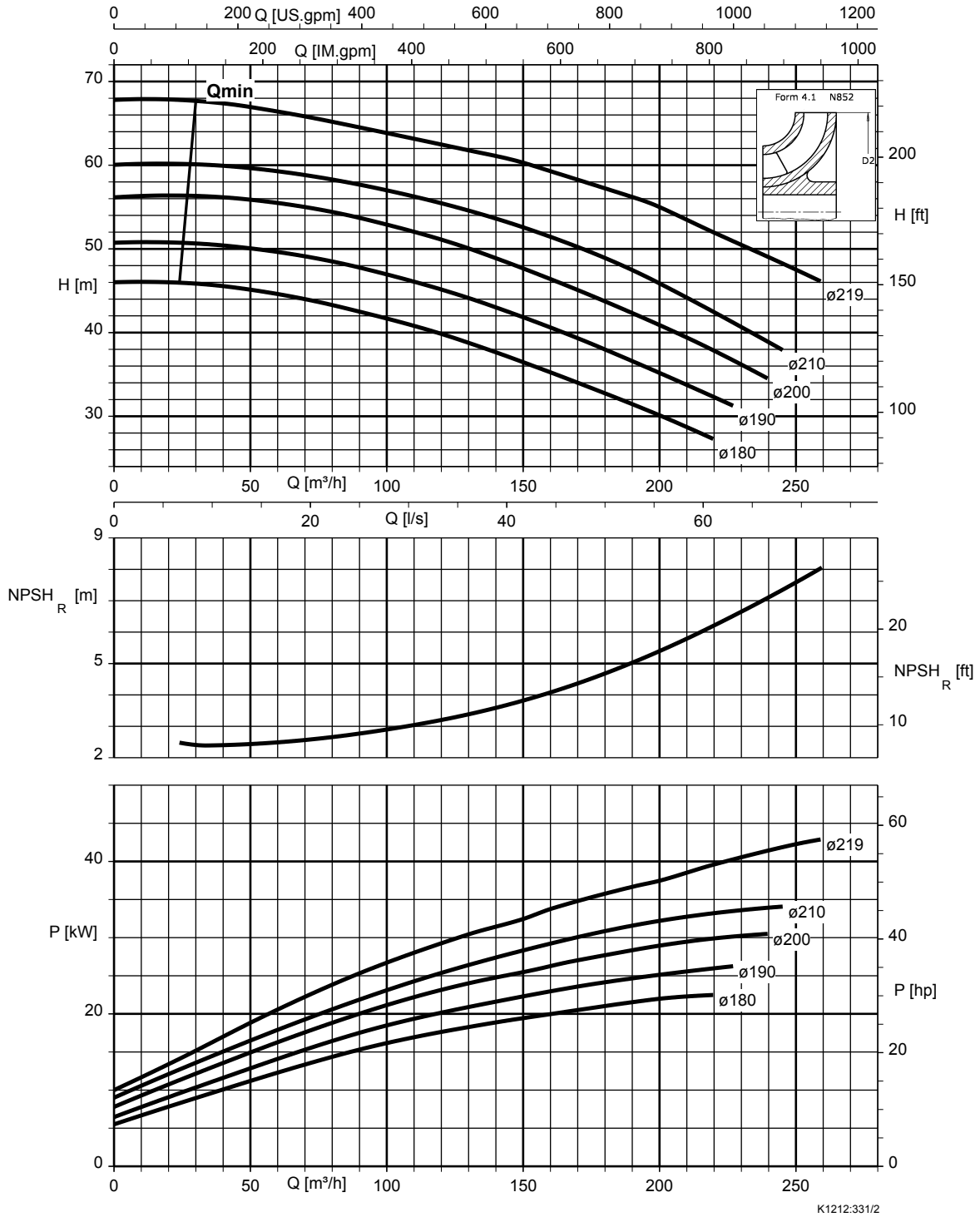
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Etachrom L / Etachrom B, 080-065-250, n = 2900 rpm

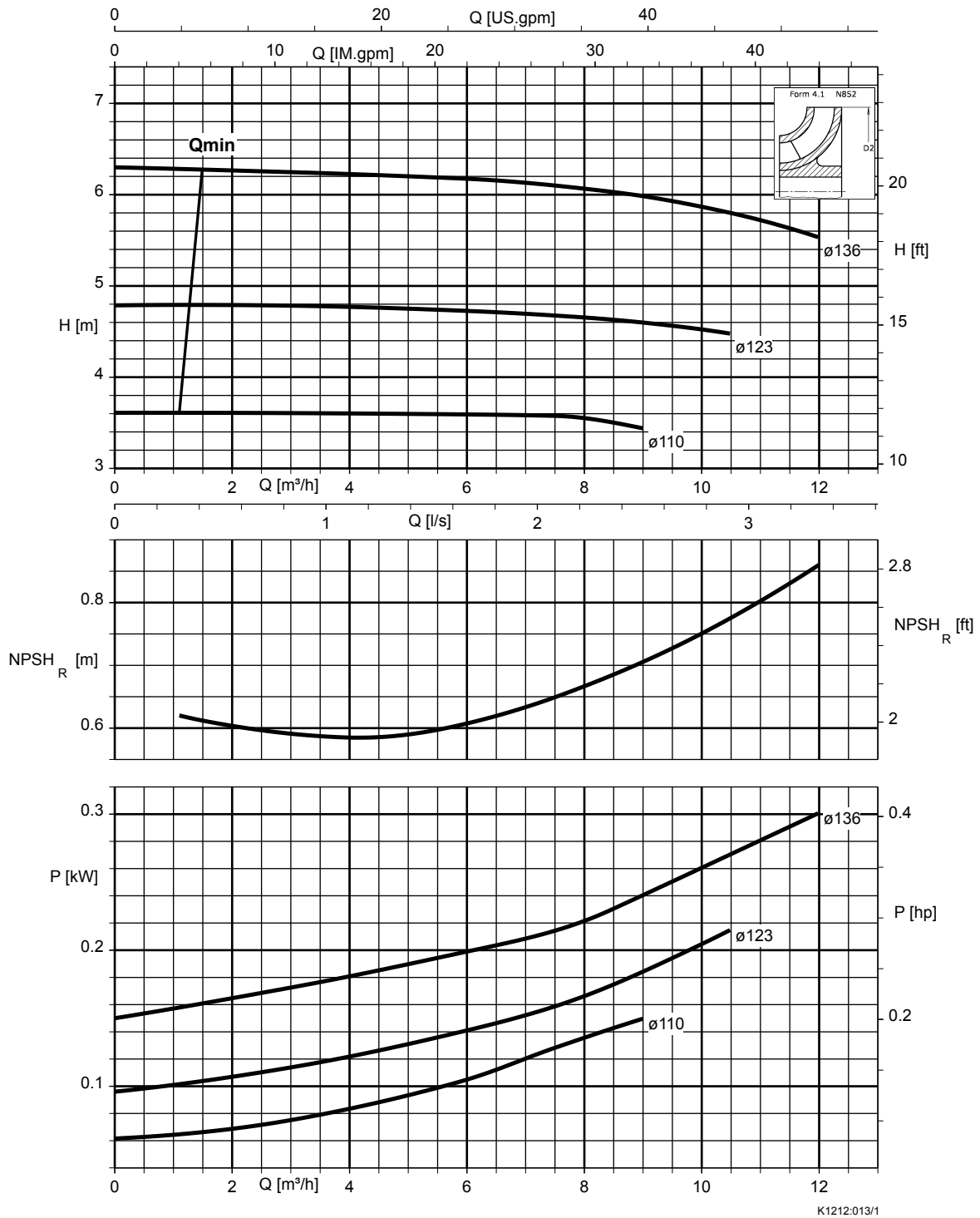


Etachrom L / Etachrom B, 100-080-200, n = 2900 rpm

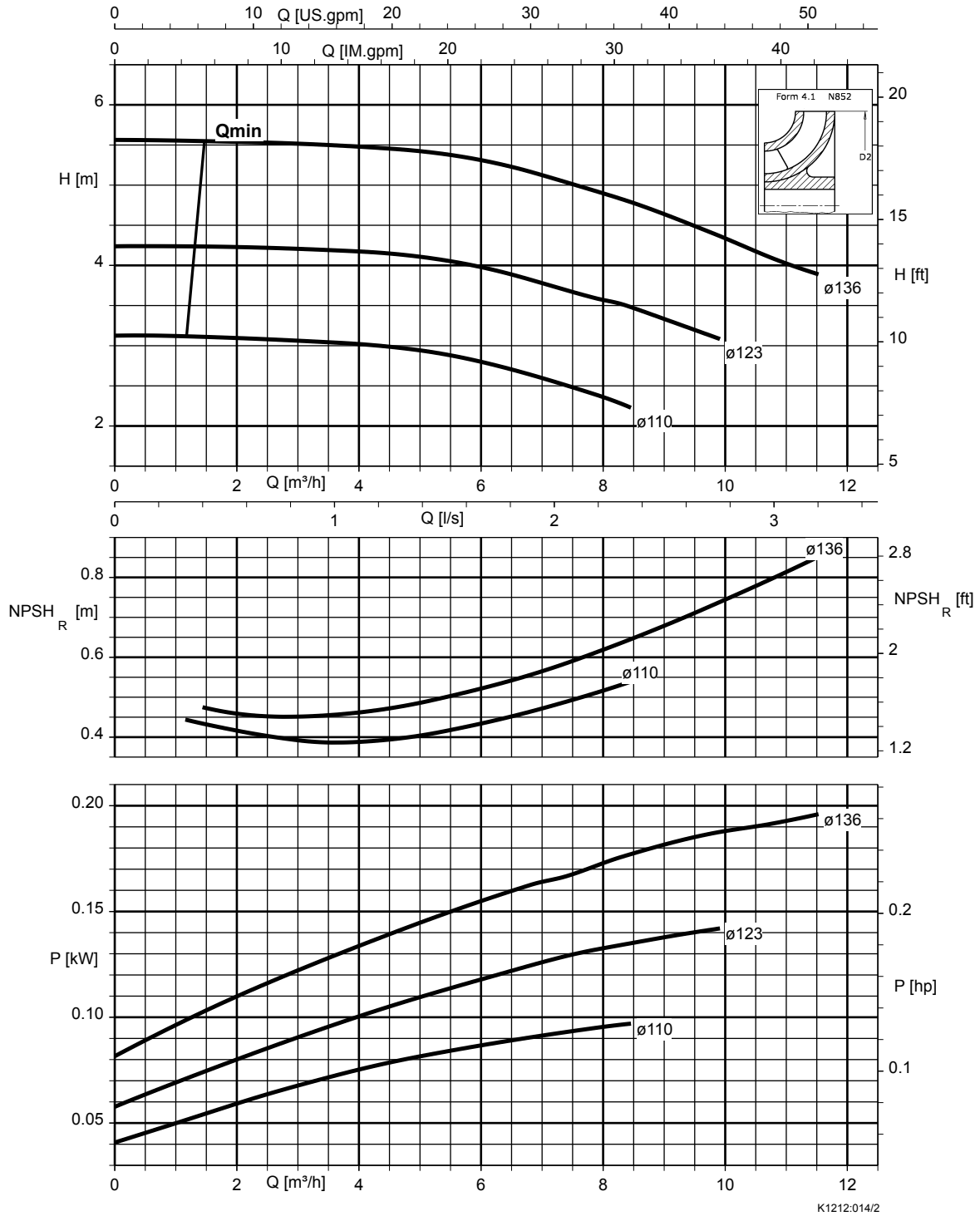


n = 1450 rpm

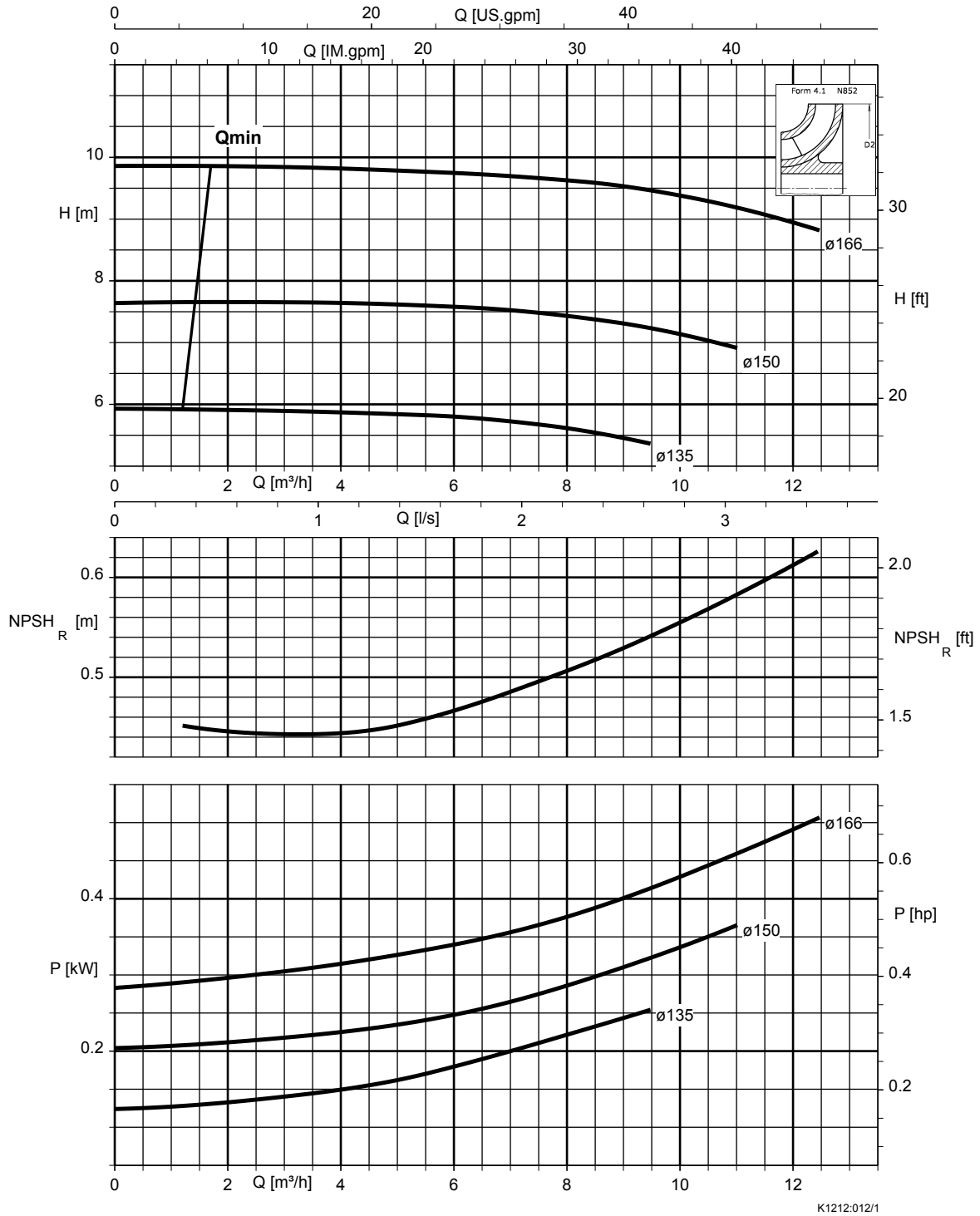
Etachrom L / Etachrom B, 050-025-125, n = 1450 rpm



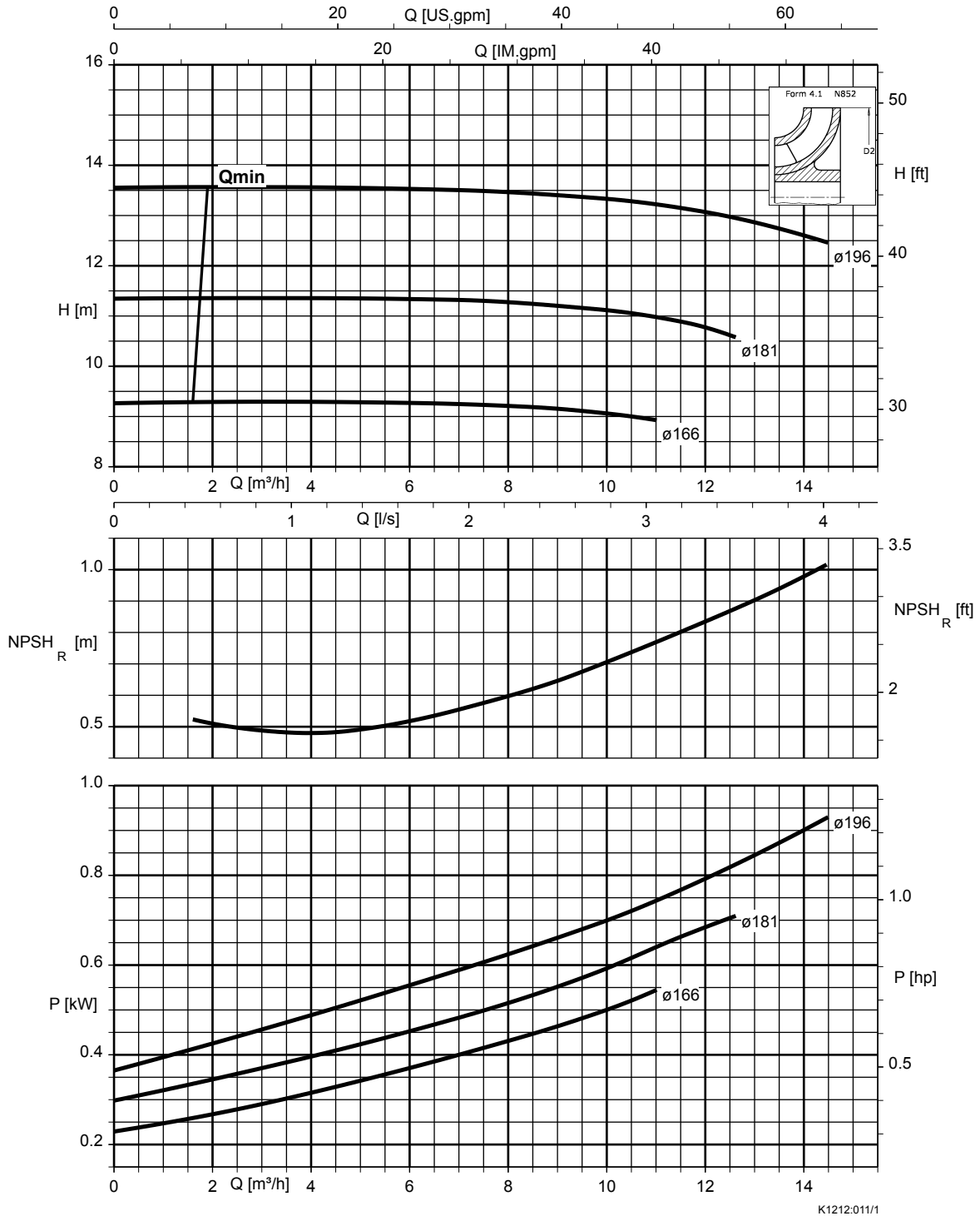
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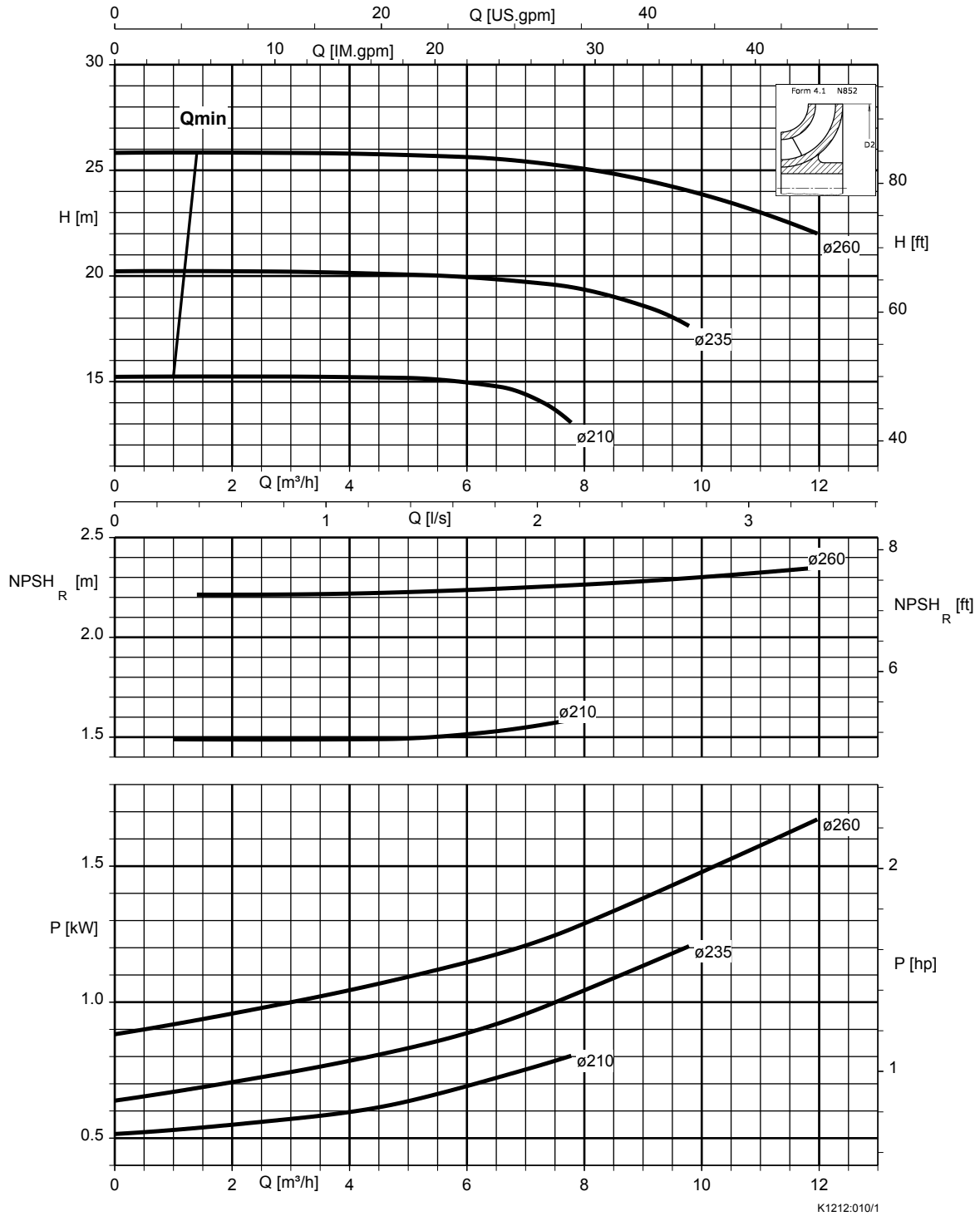
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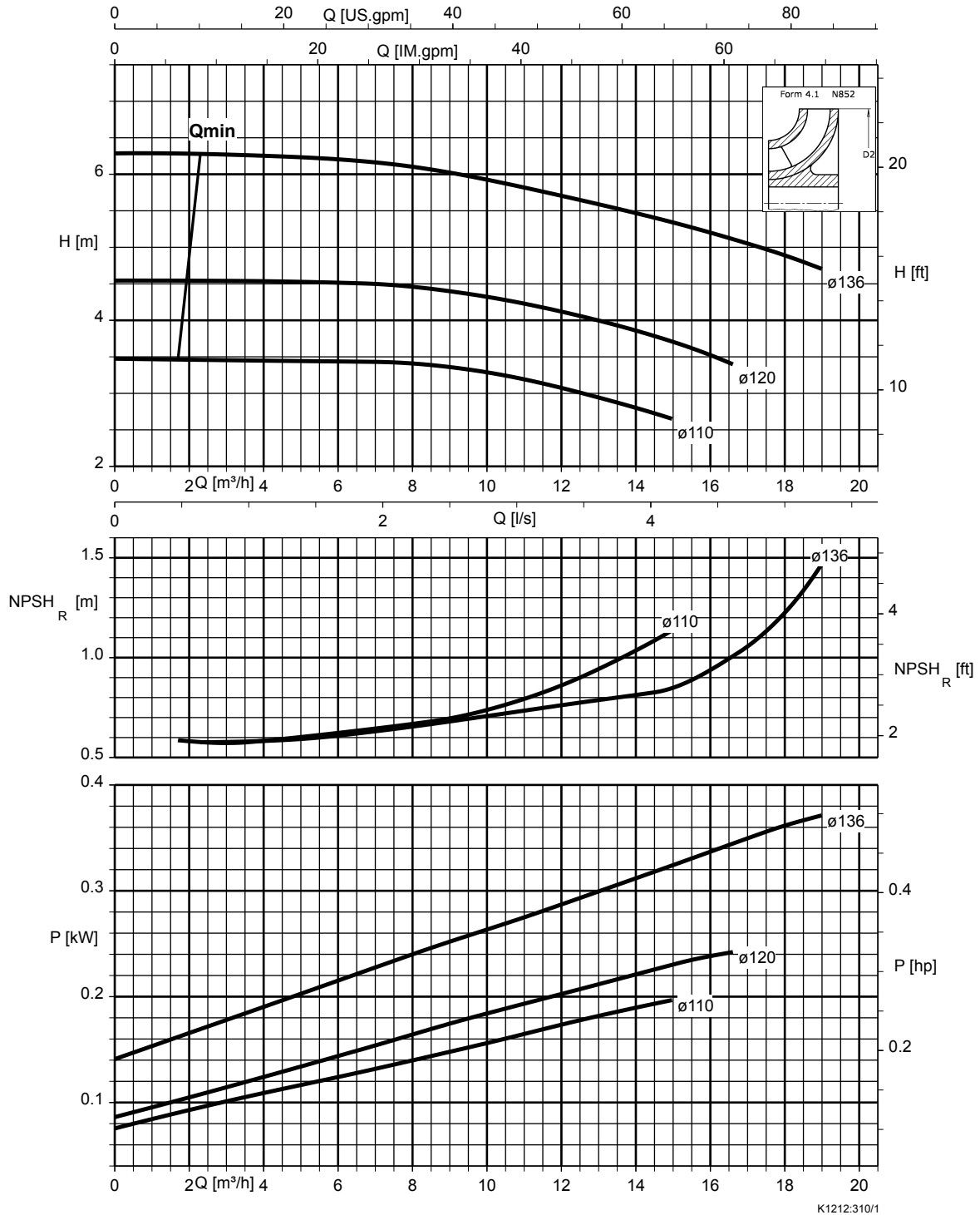
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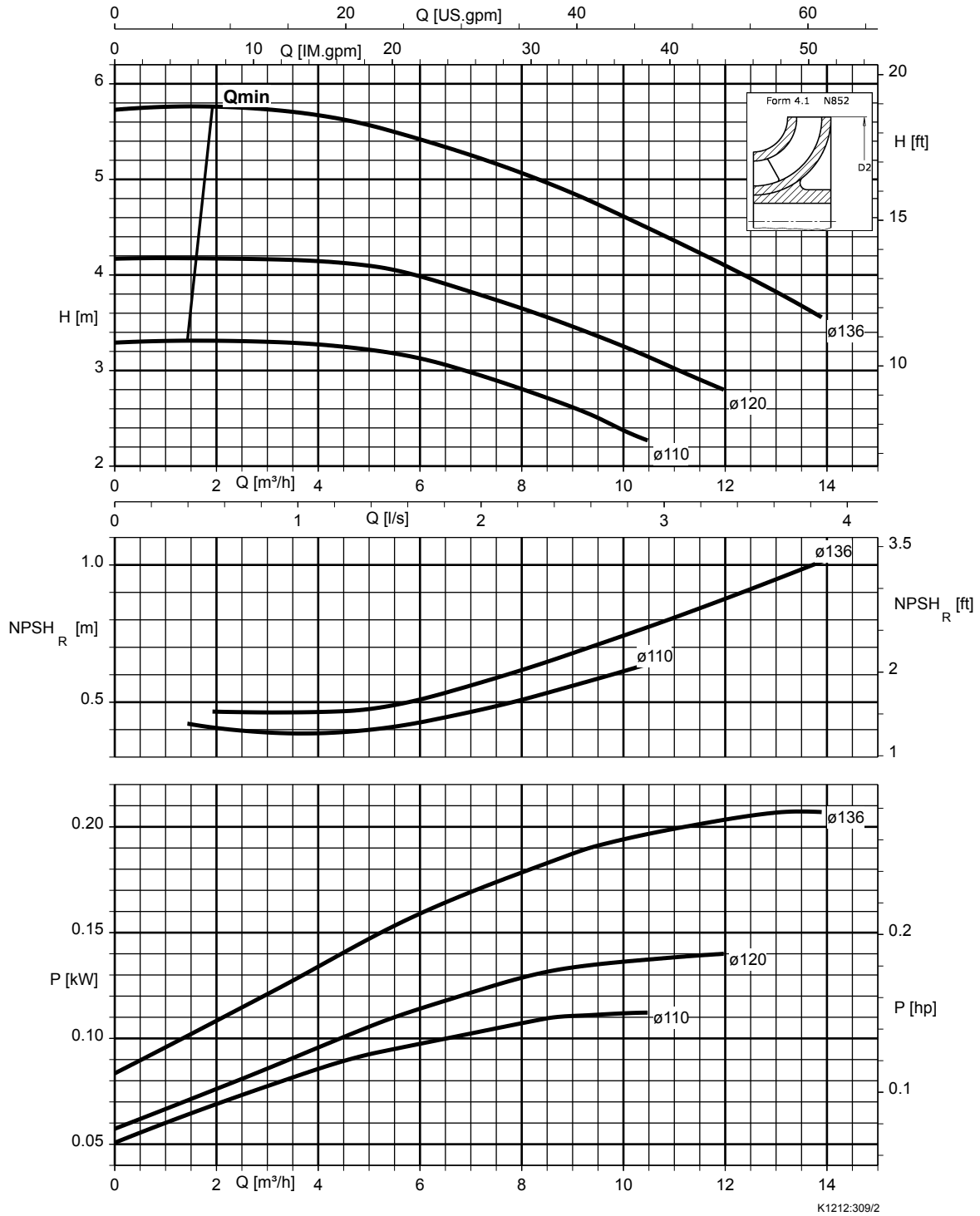
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Etachrom L / Etachrom B, 050-032-125, n = 1450 rpm

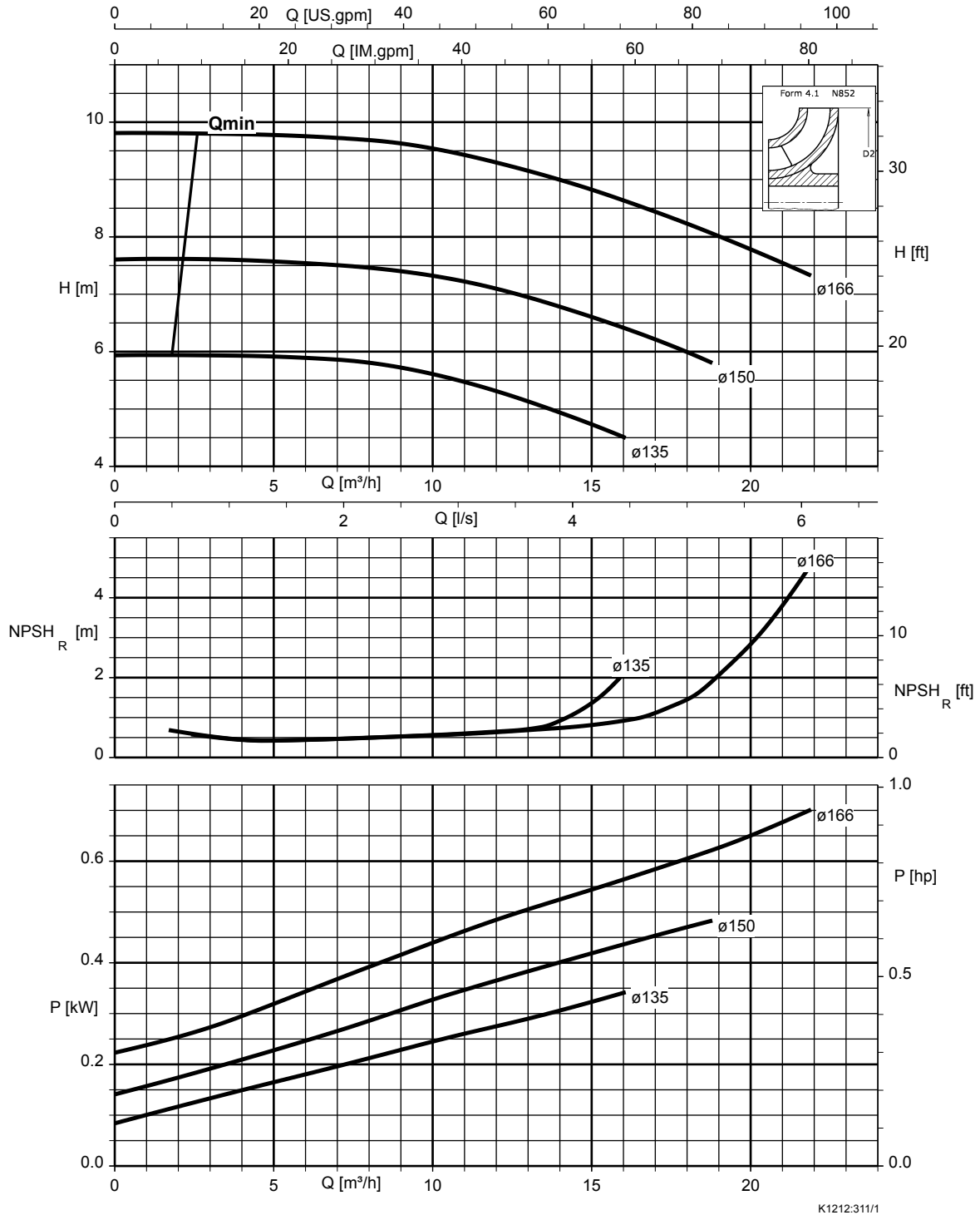


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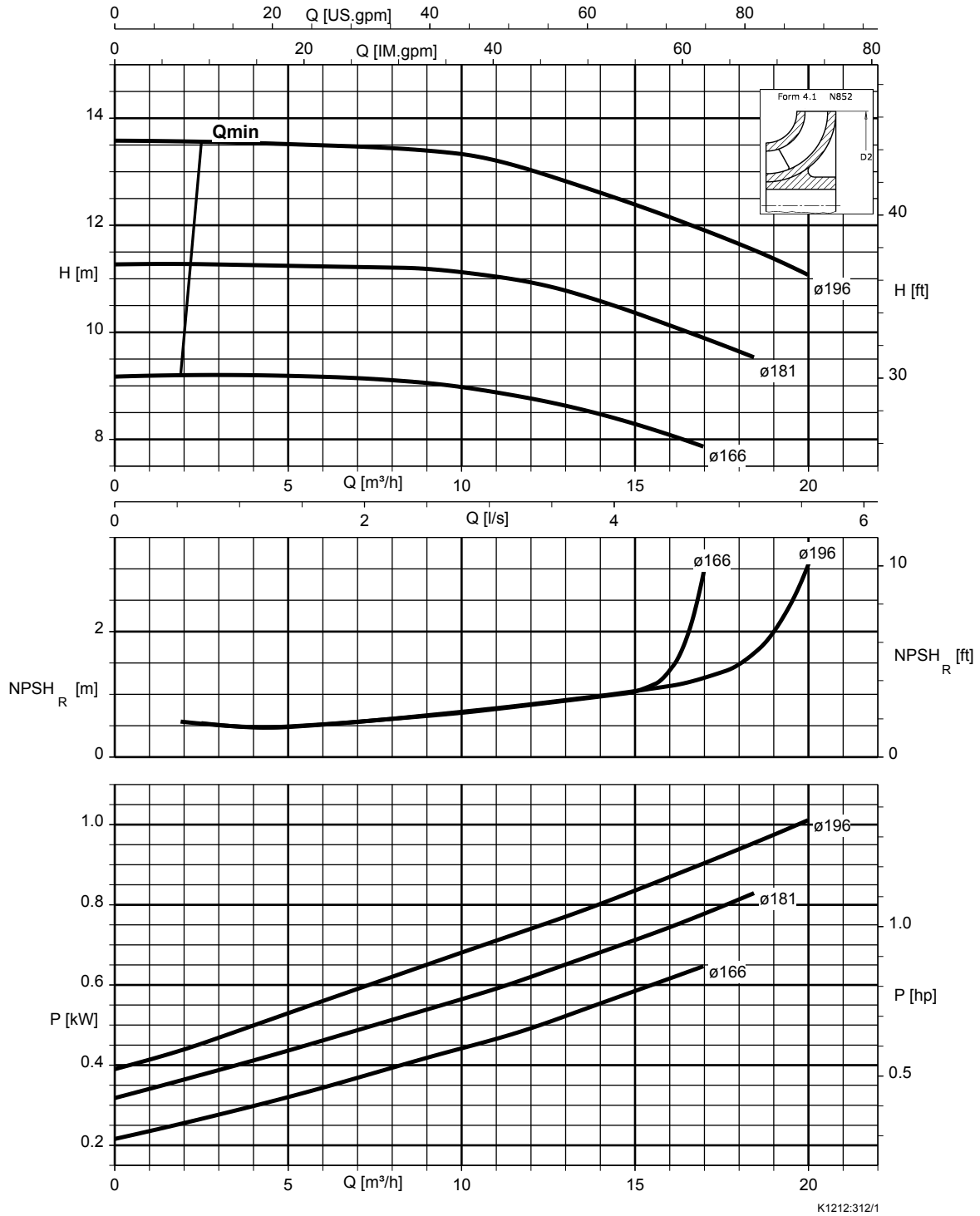
K1212:309/2

Etachrom L / Etachrom B, 050-032-160, n = 1450 rpm

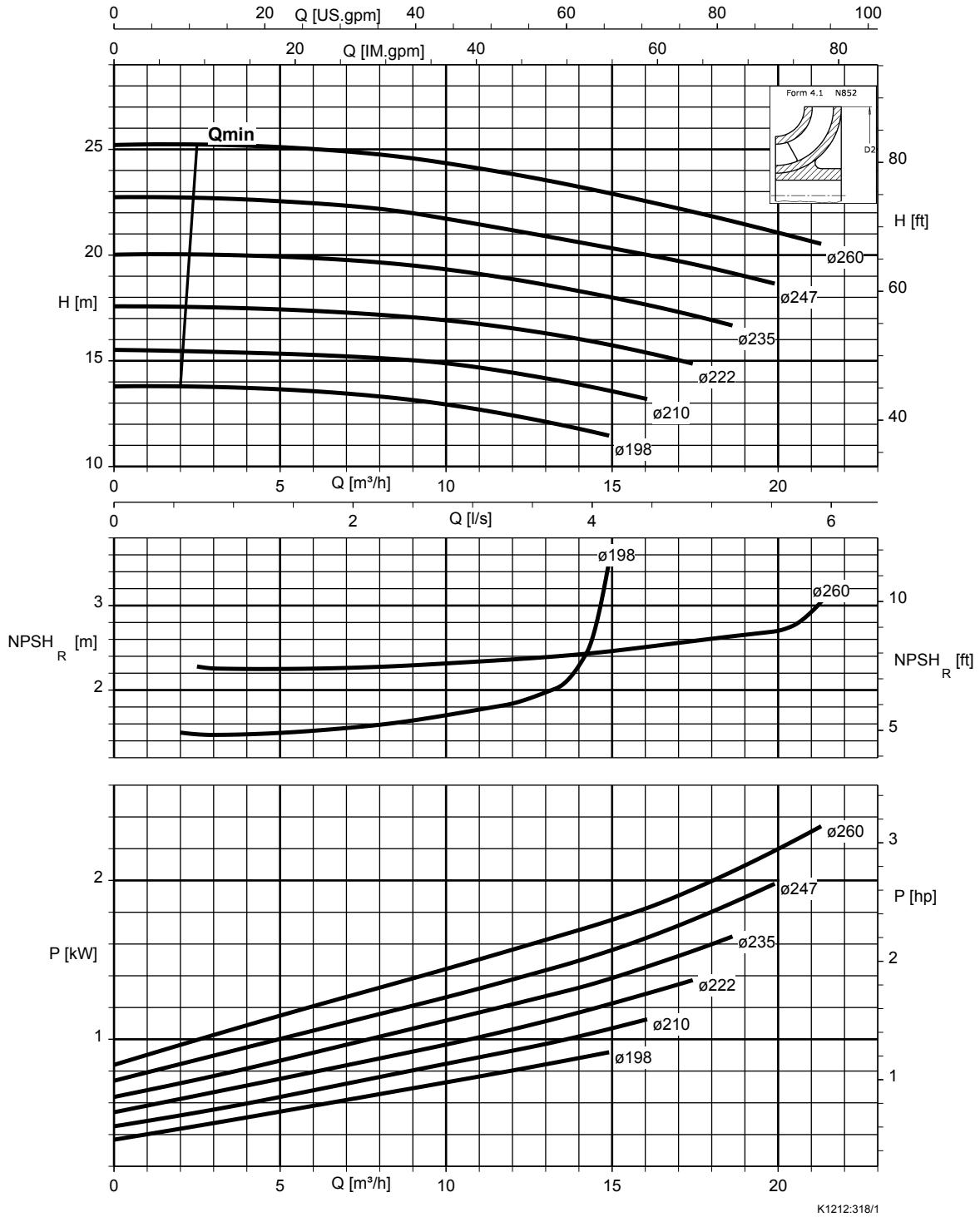


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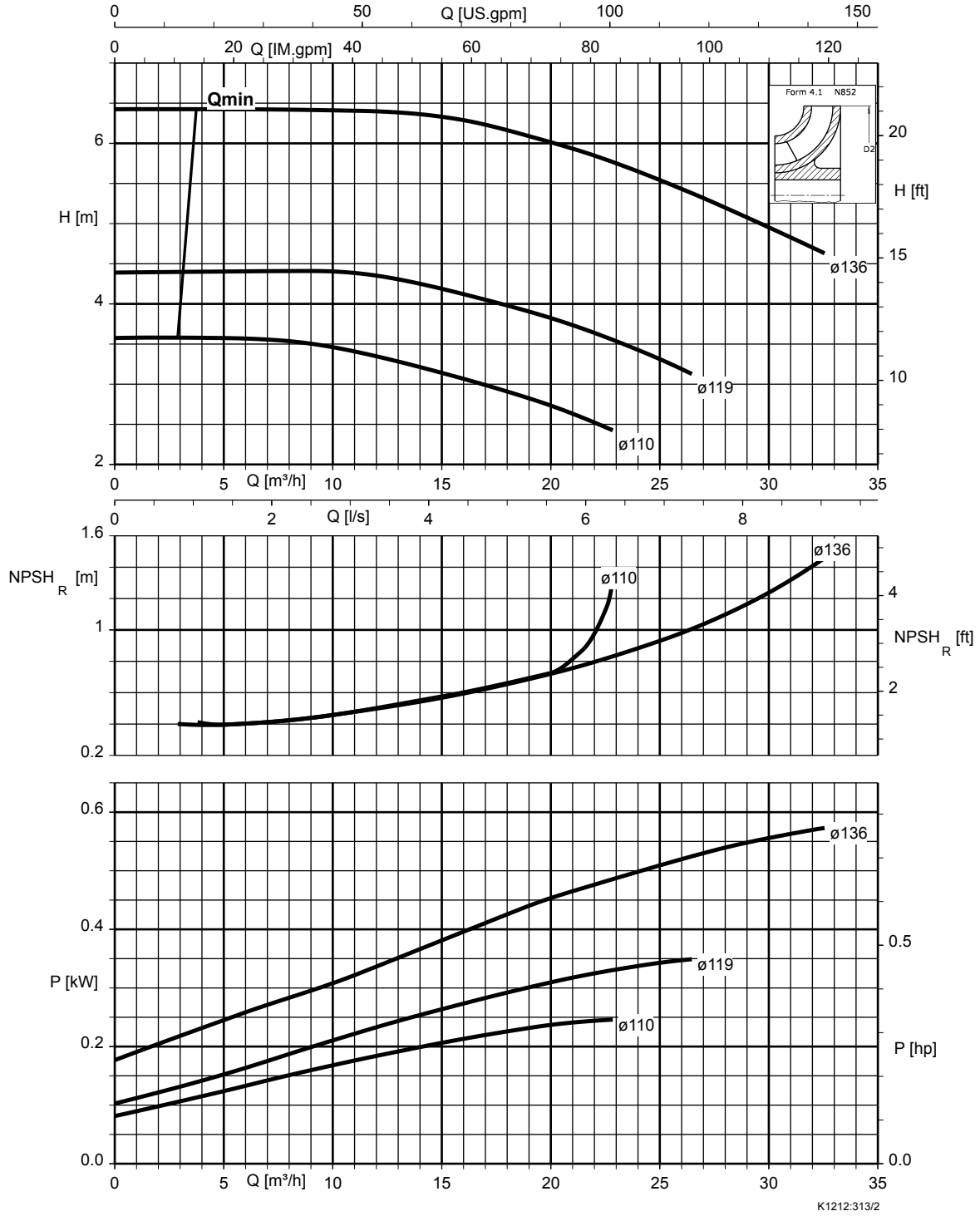
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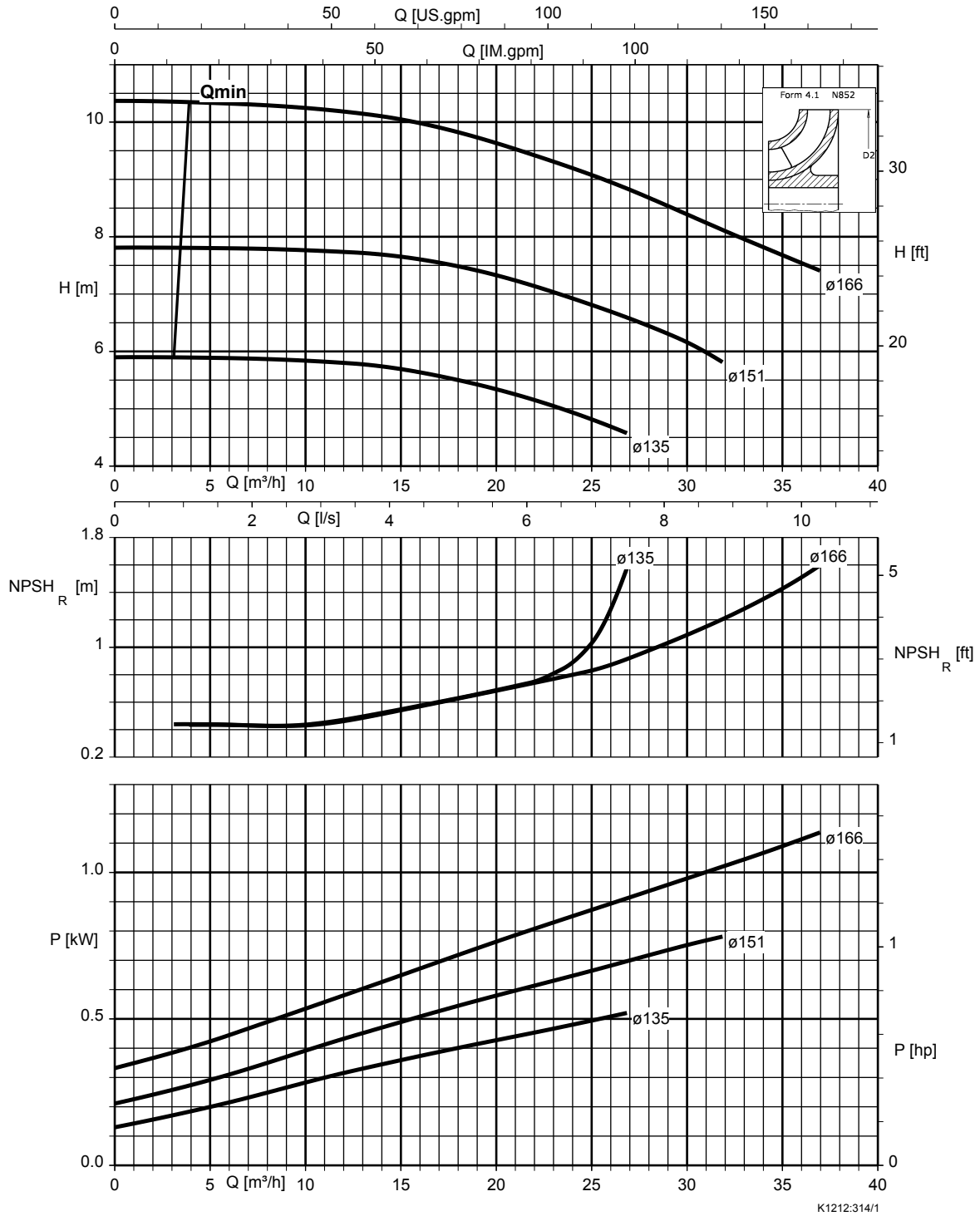
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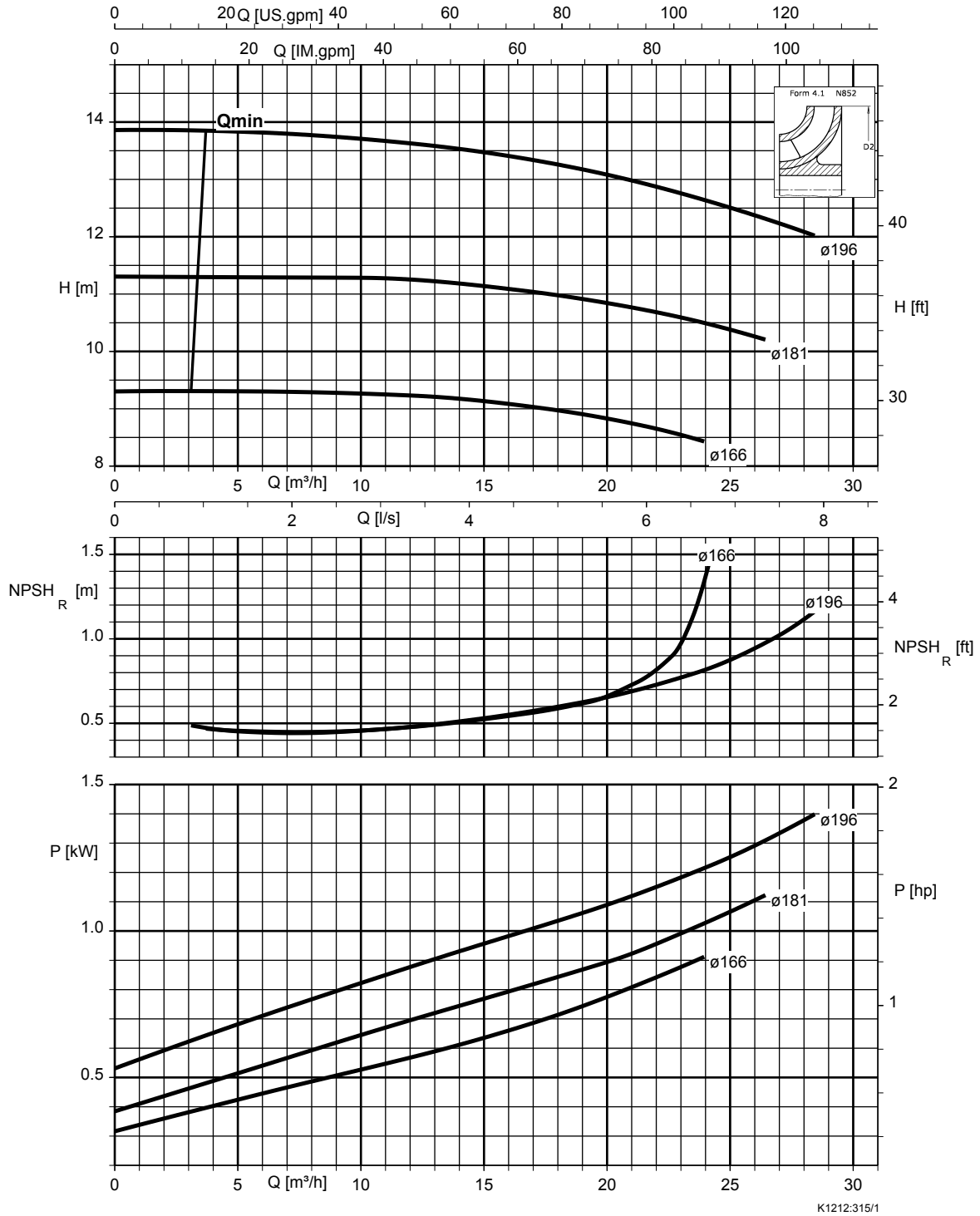
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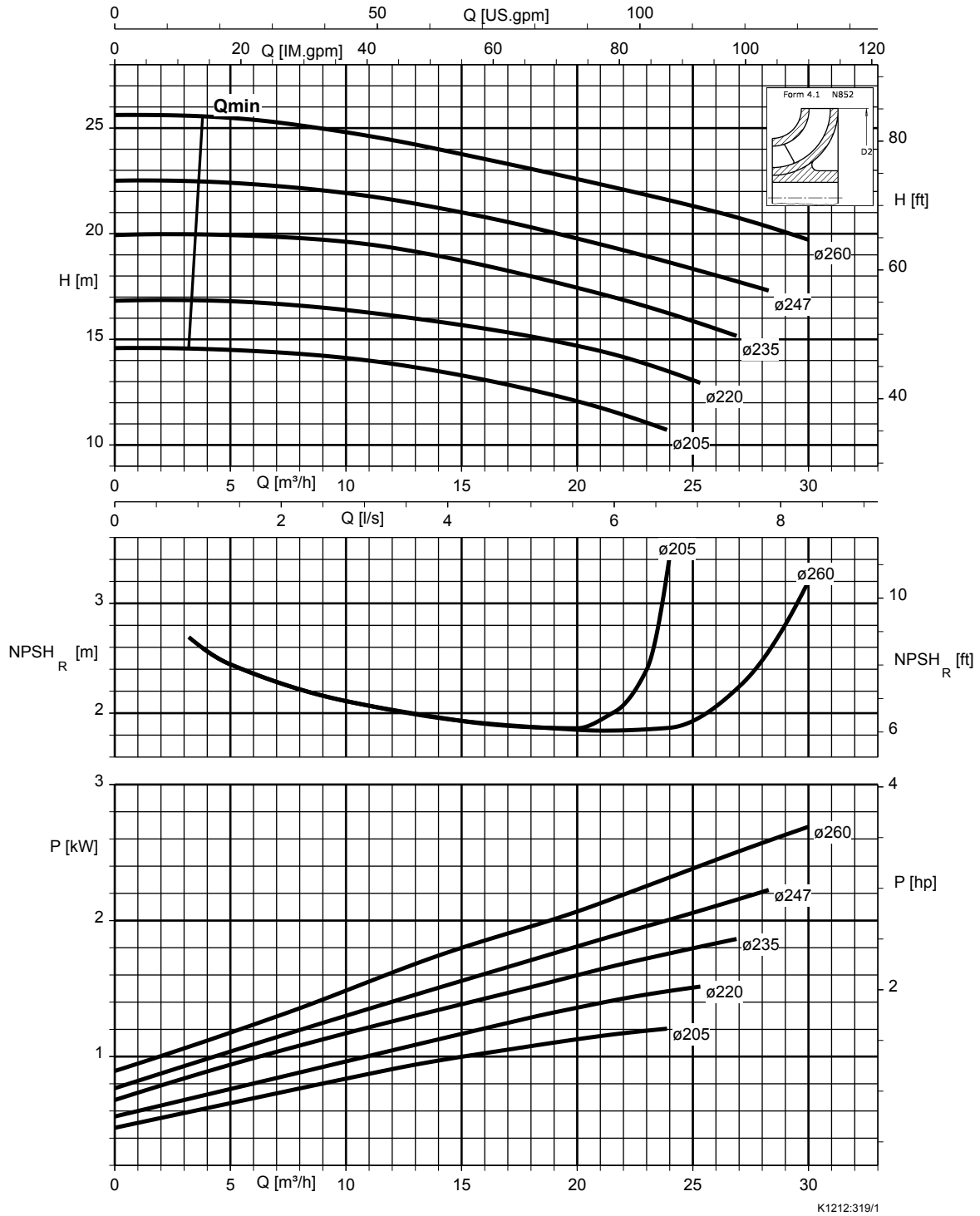
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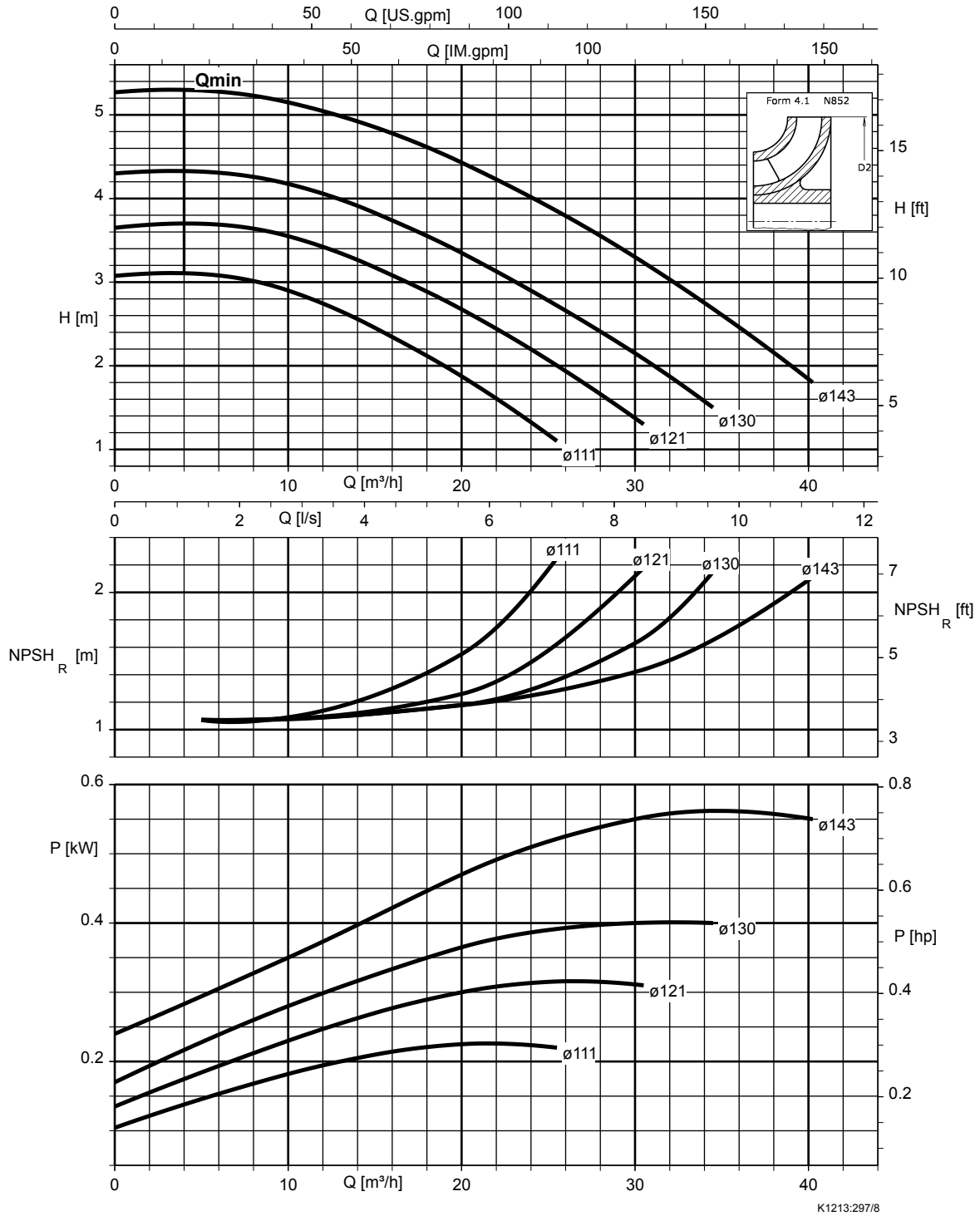
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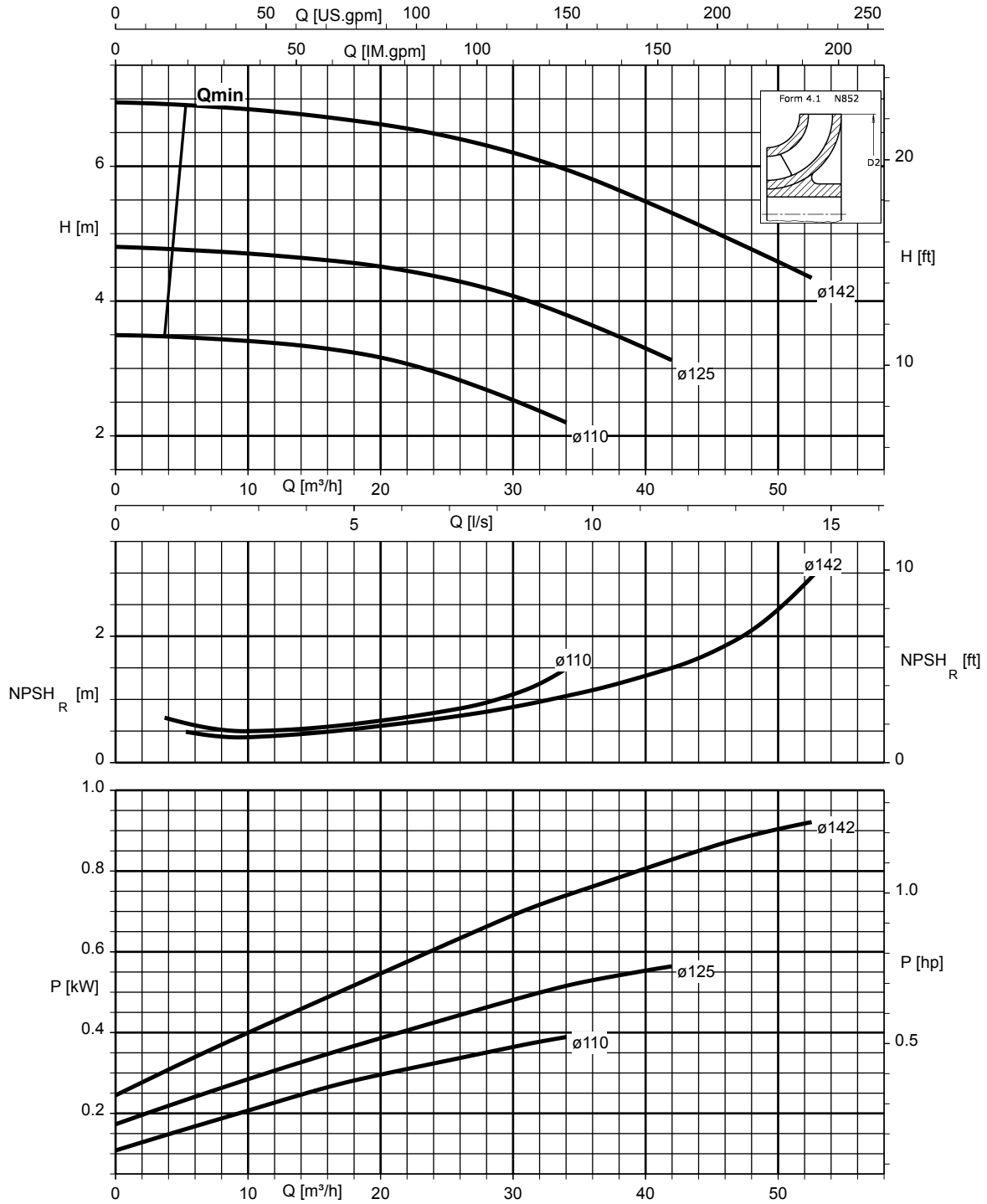
Etachrom L / Etachrom B, 065-040-250, n = 1450 rpm



Etachrom B, 065-050-125, n = 1450 rpm, with free-flow impeller

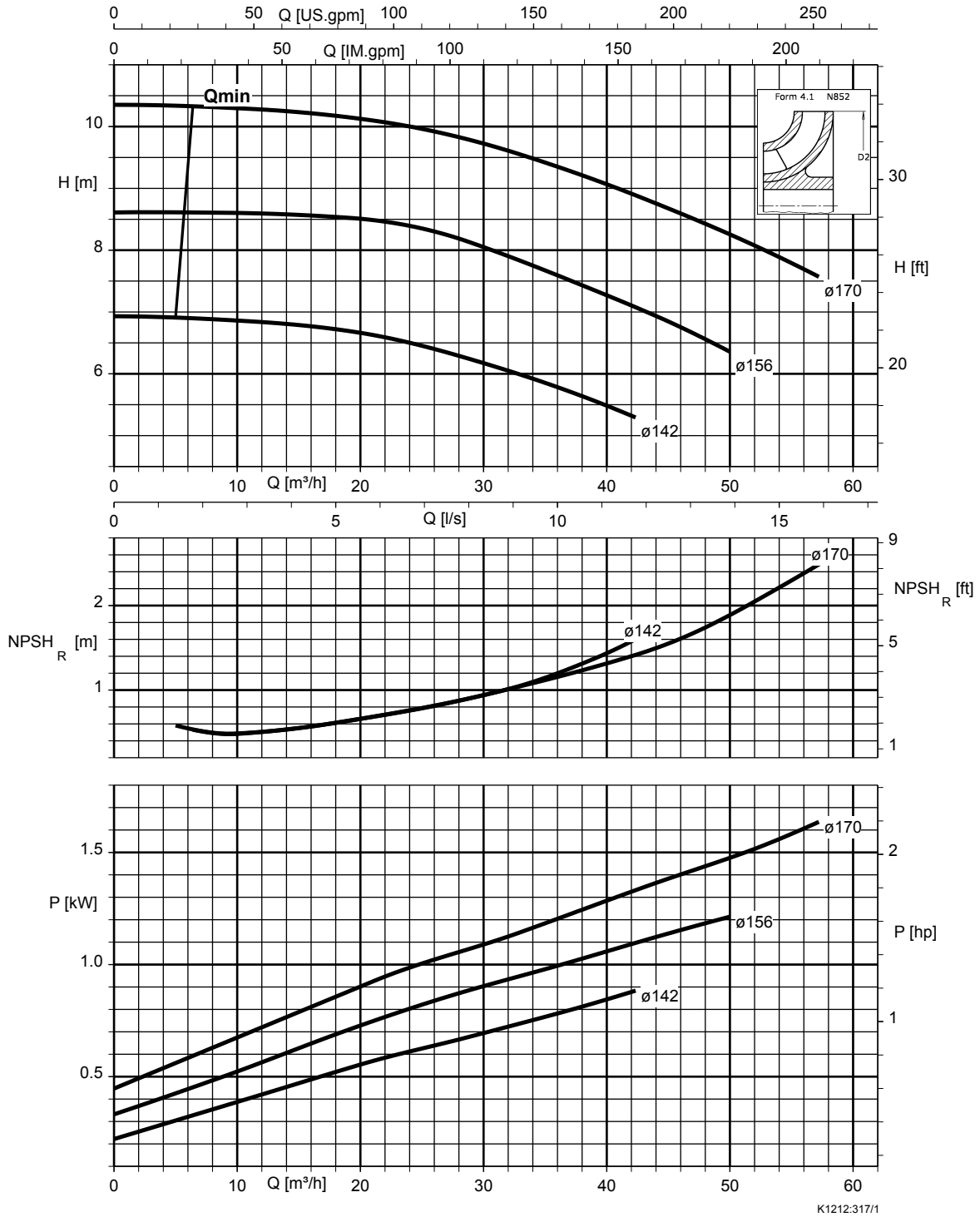


Etachrom L / Etachrom B, 065-050-125, n = 1450 rpm

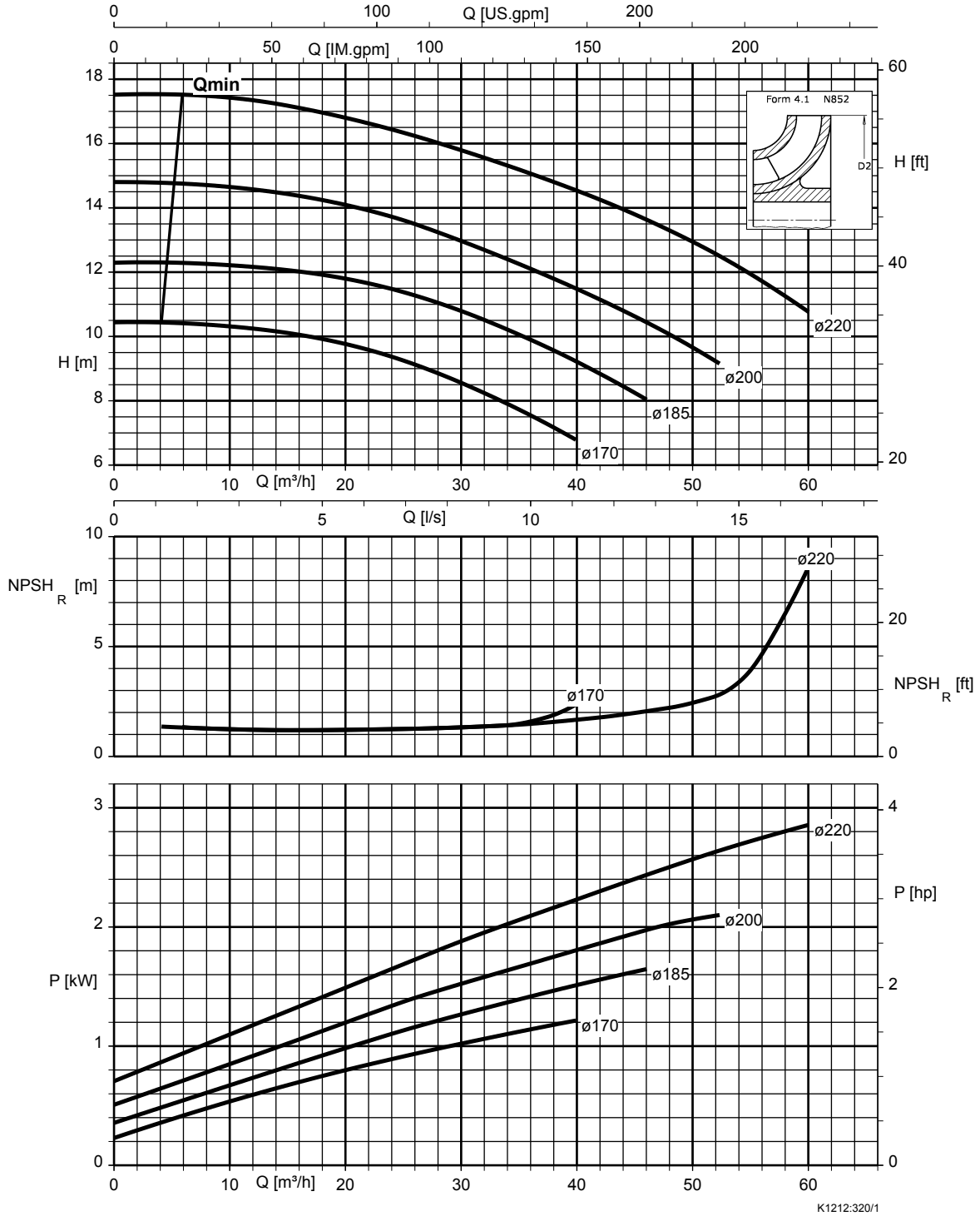


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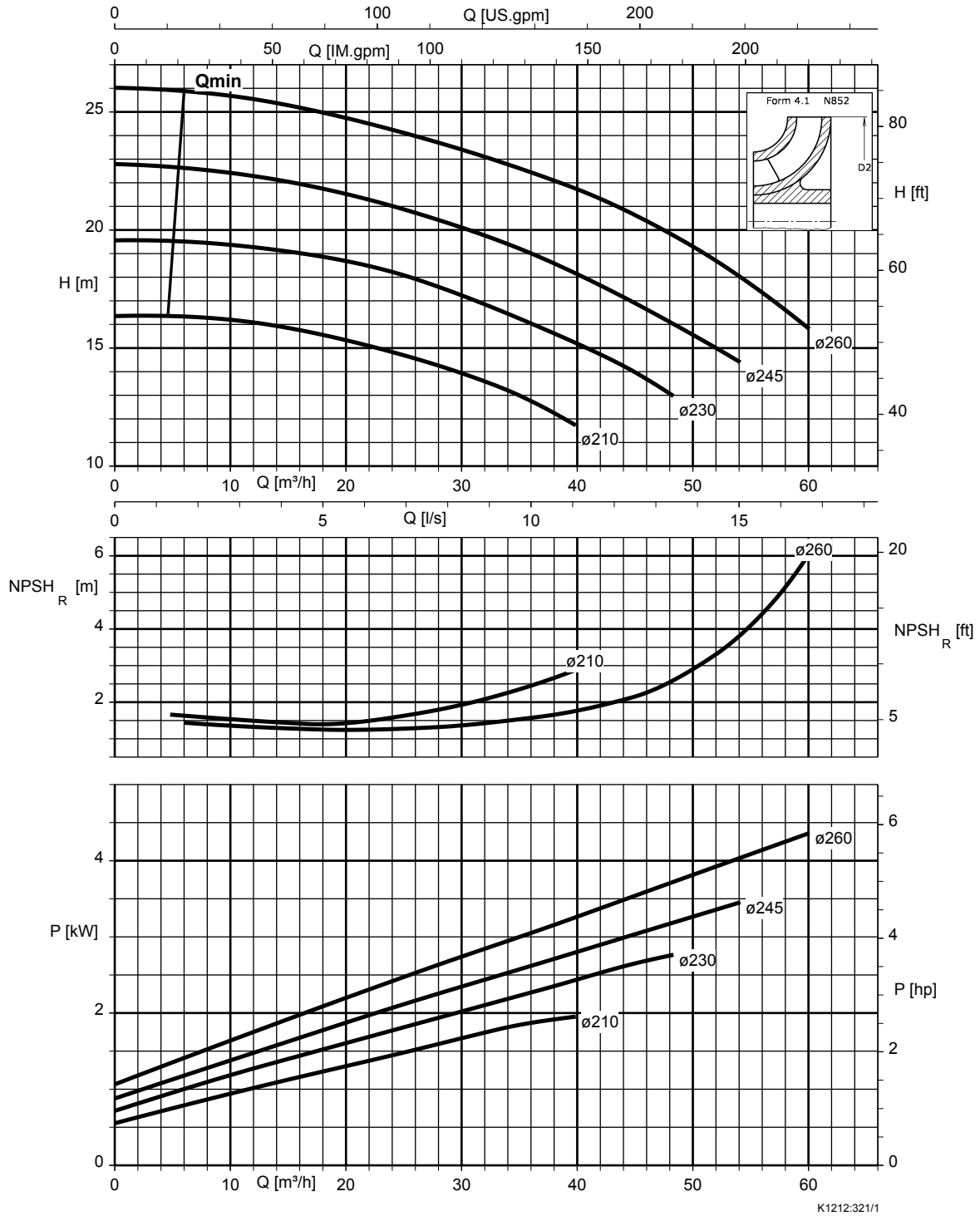
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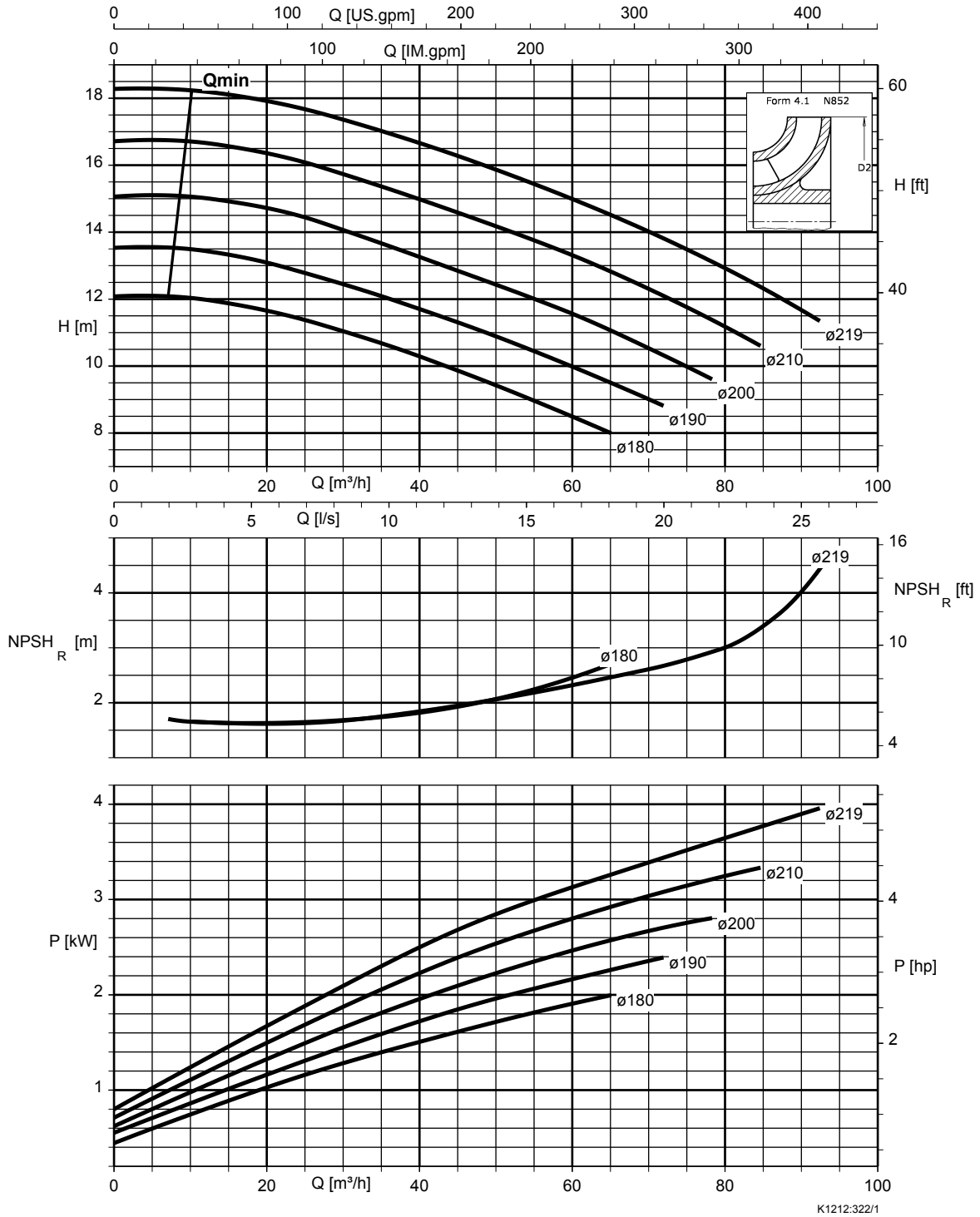
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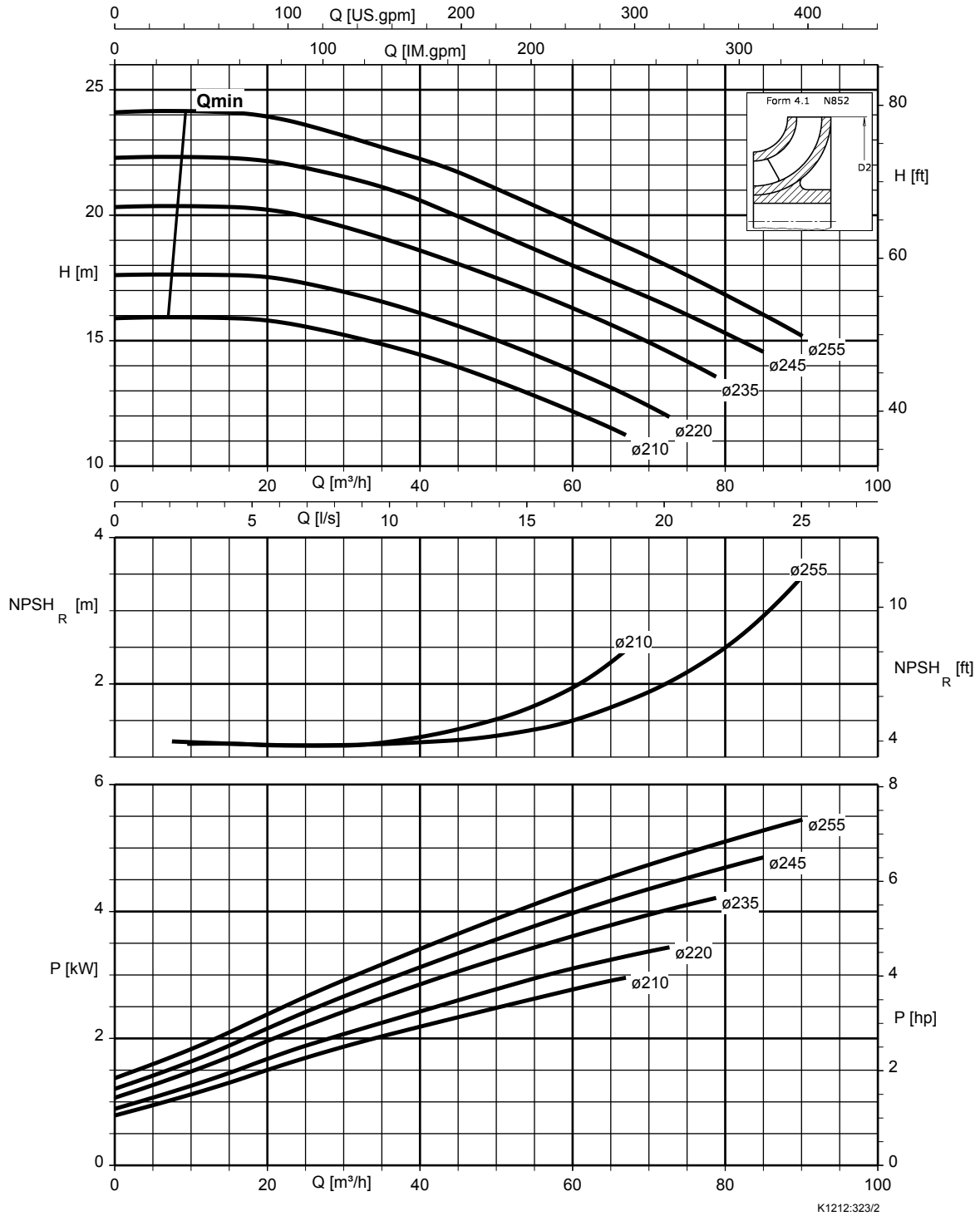
Etachrom L / Etachrom B, 065-050-250, n = 1450 rpm



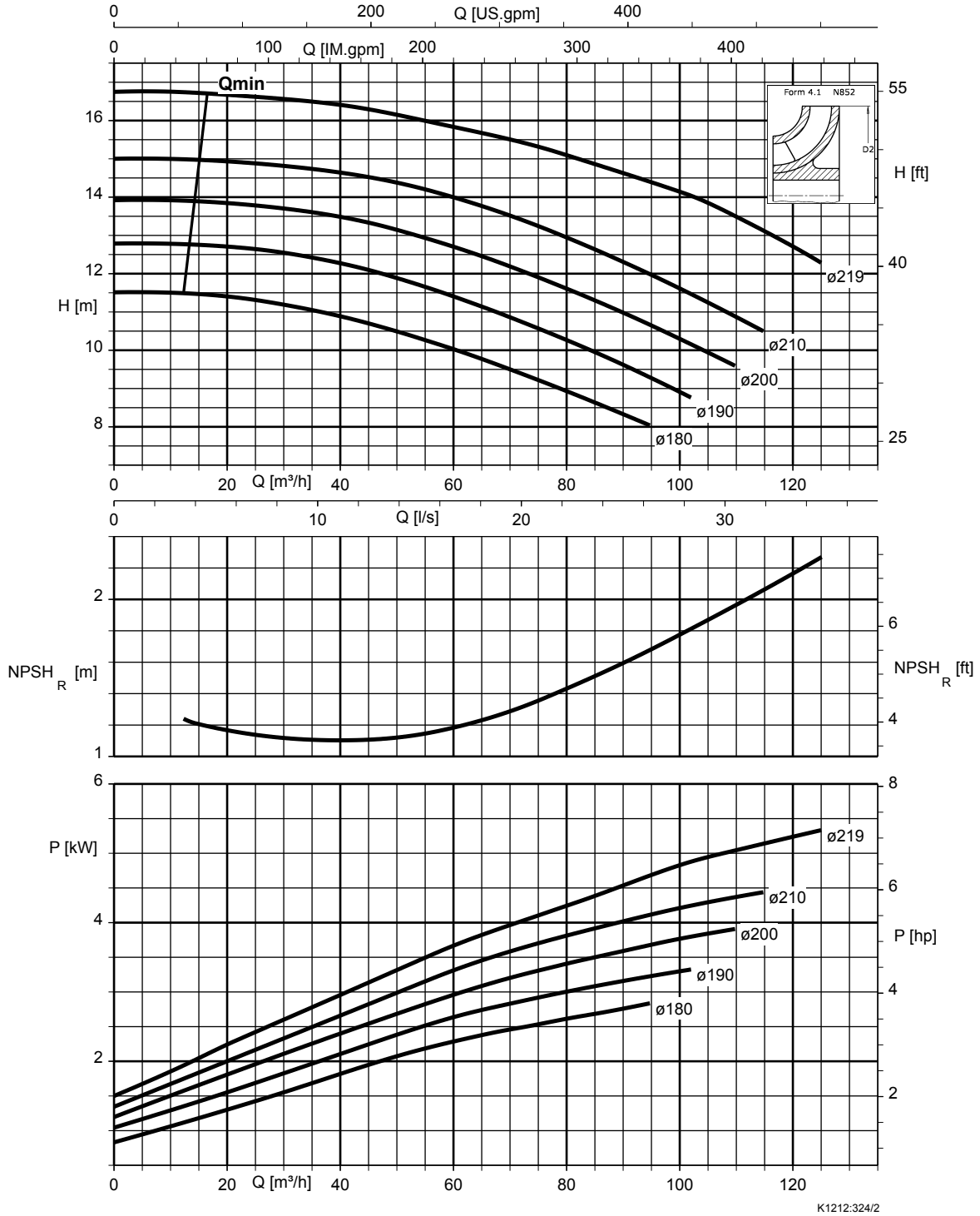
Etachrom L / Etachrom B, 080-065-200, n = 1450 rpm



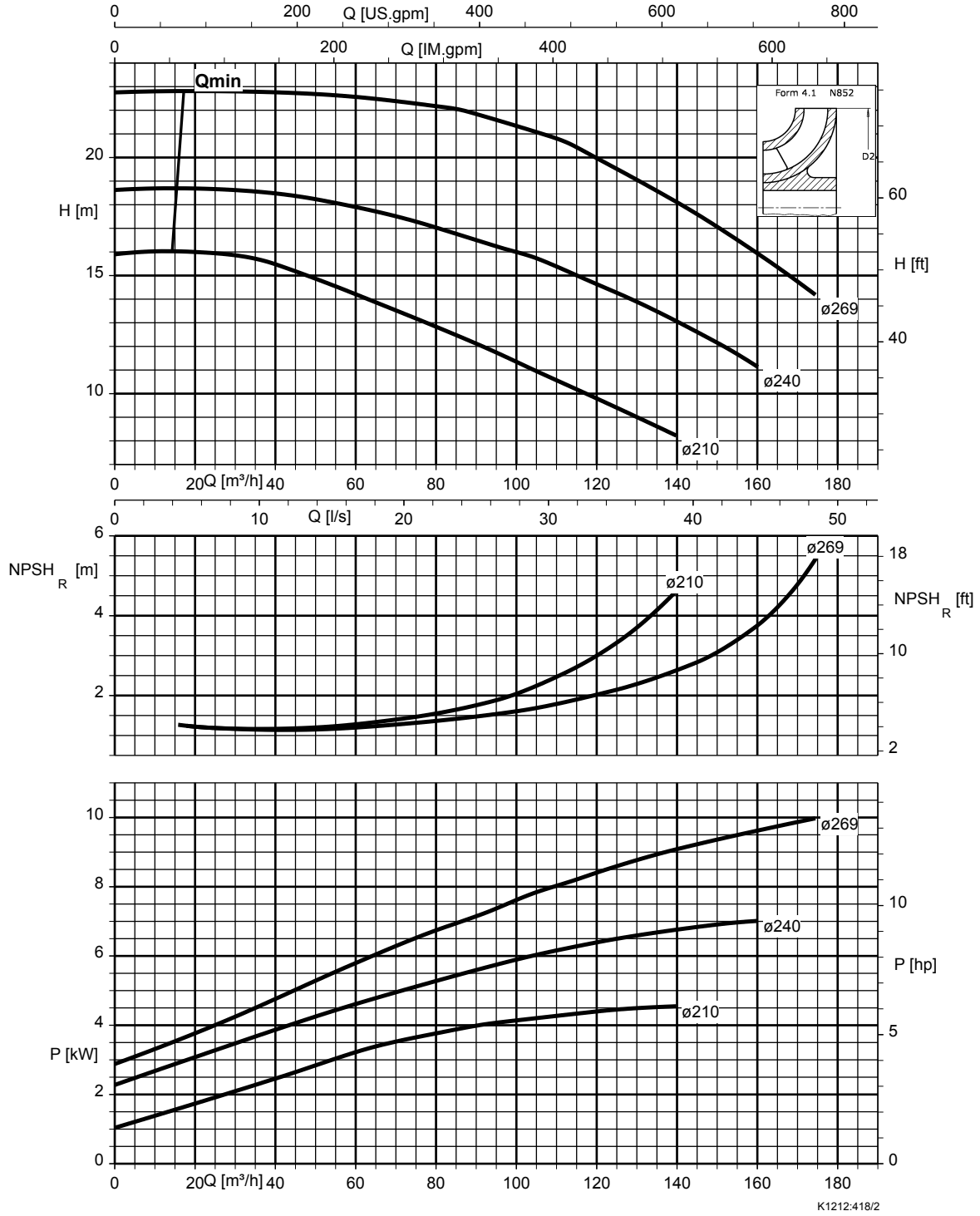
Etachrom L / Etachrom B, 080-065-250, n = 1450 rpm



Etachrom L / Etachrom B, 100-080-200, n = 1450 rpm

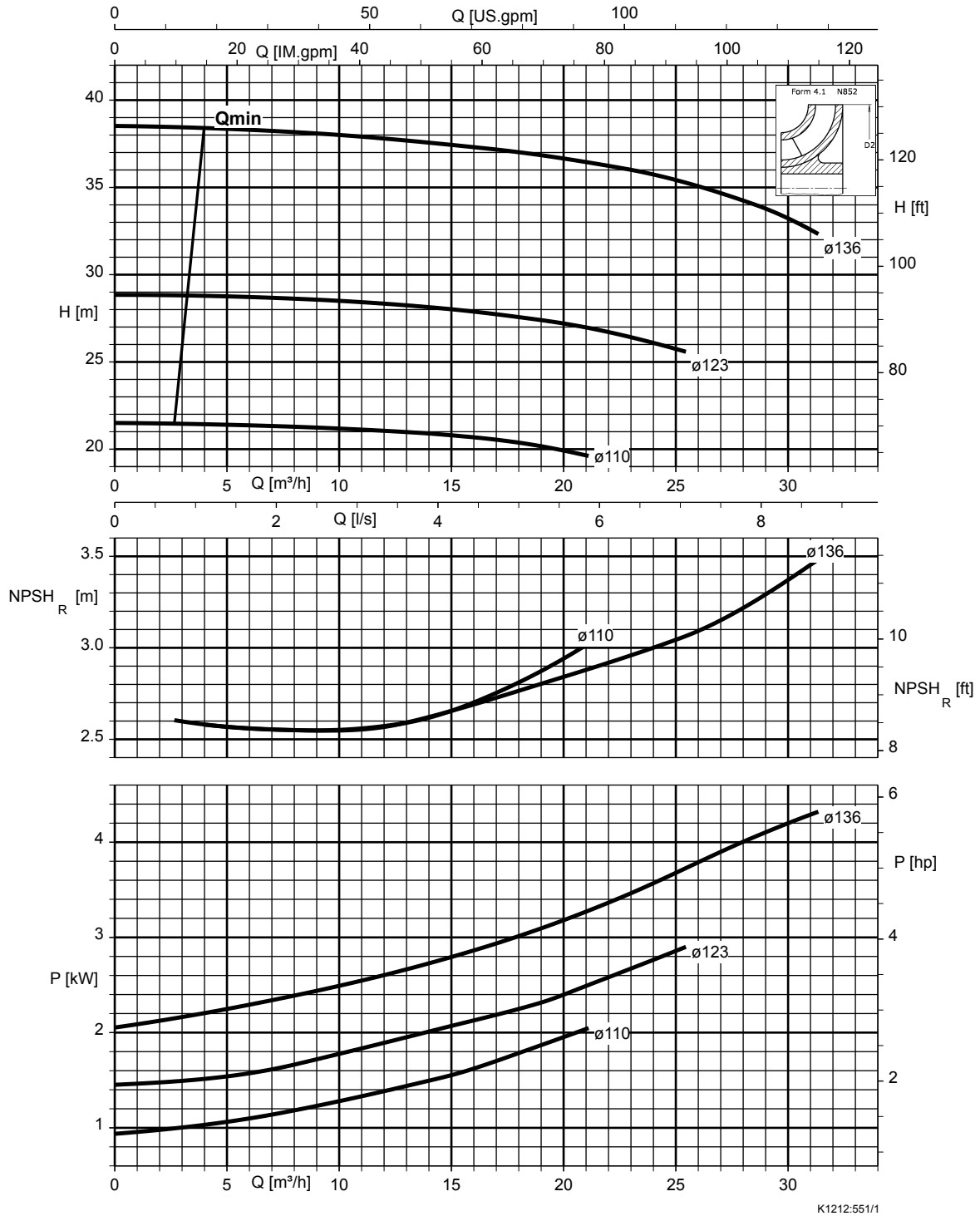


Etachrom L / Etachrom B, 100-080-250, n = 1450 rpm

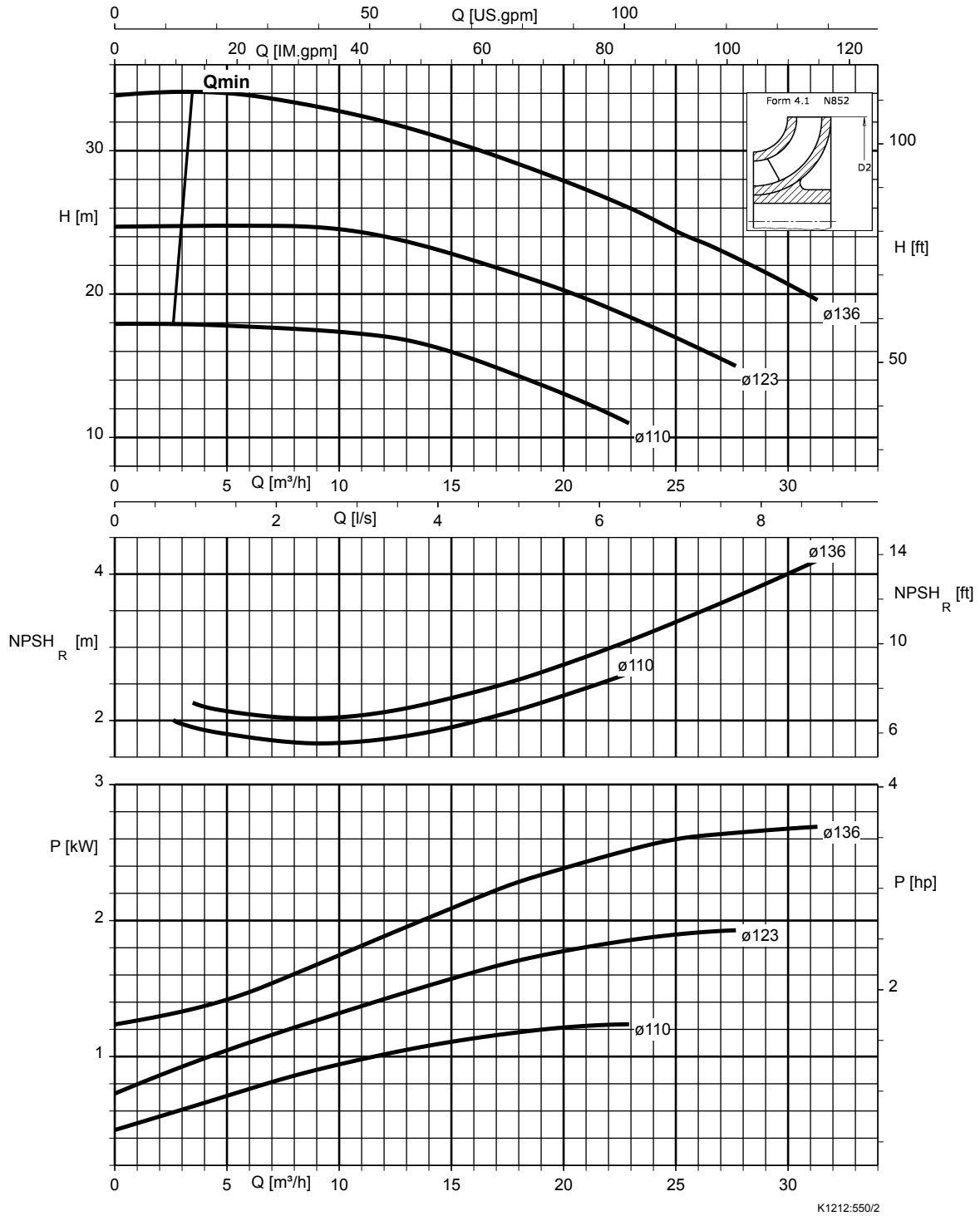


n = 3500 rpm

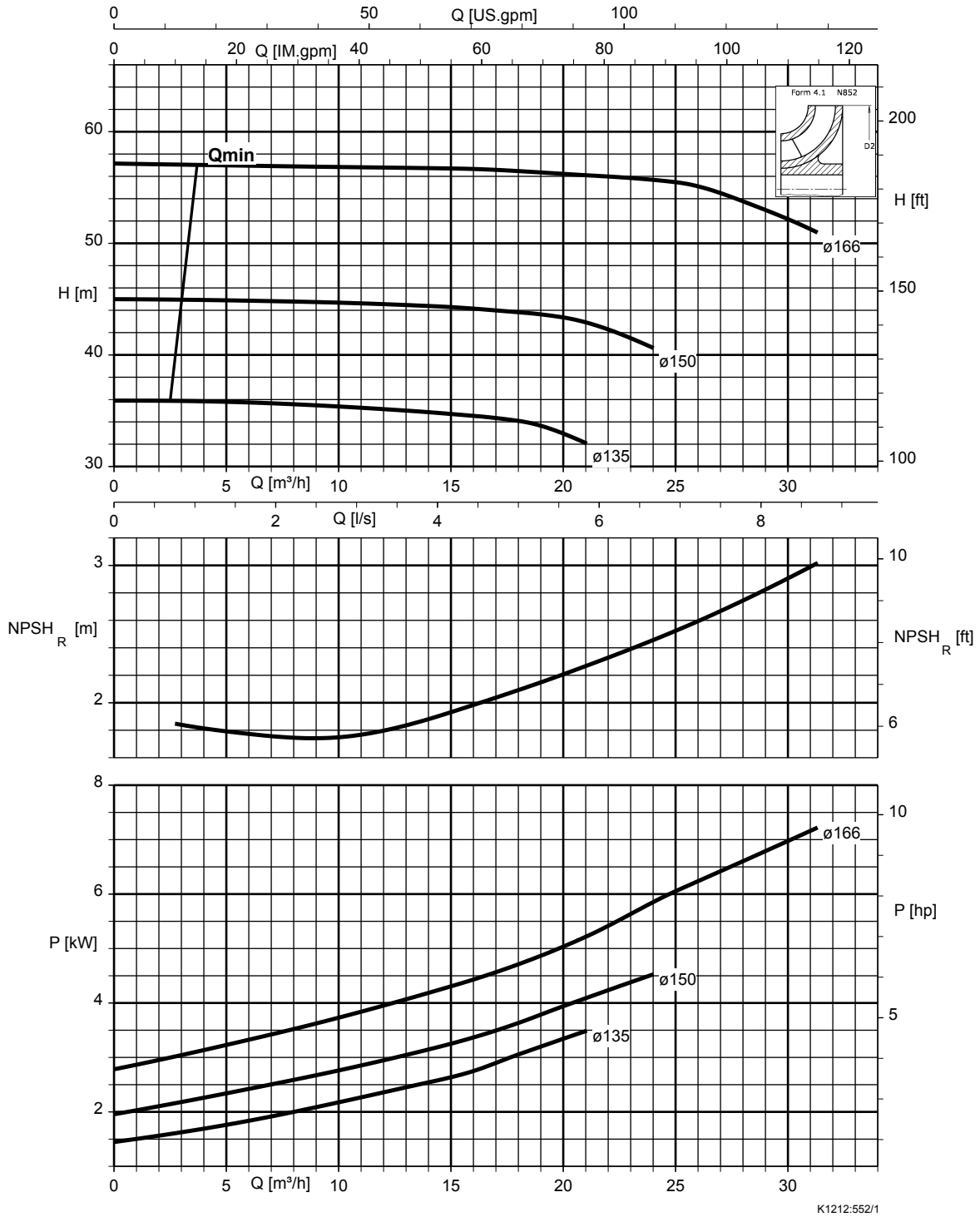
Etachrom L / Etachrom B, 050-025-125, n = 3500 rpm



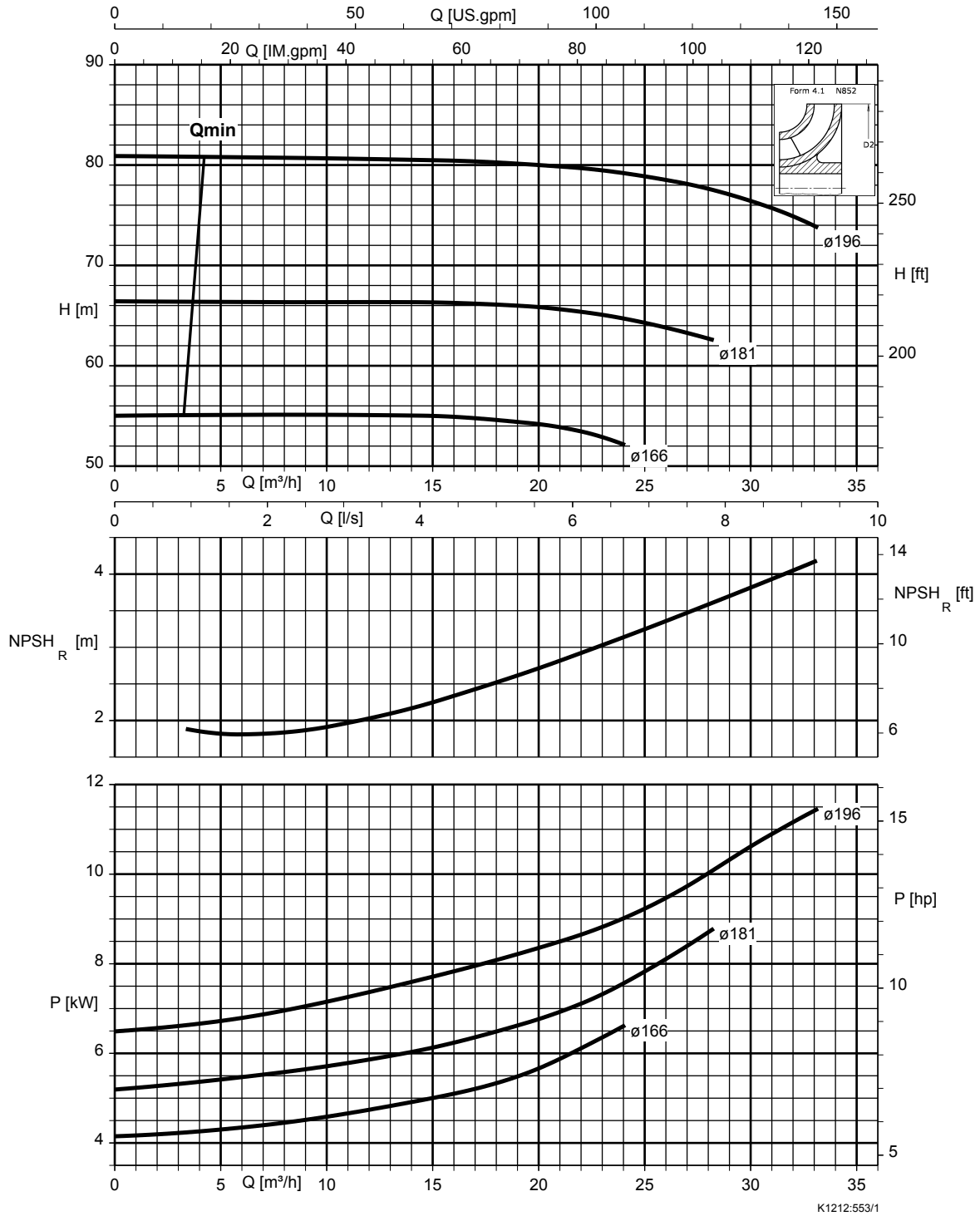
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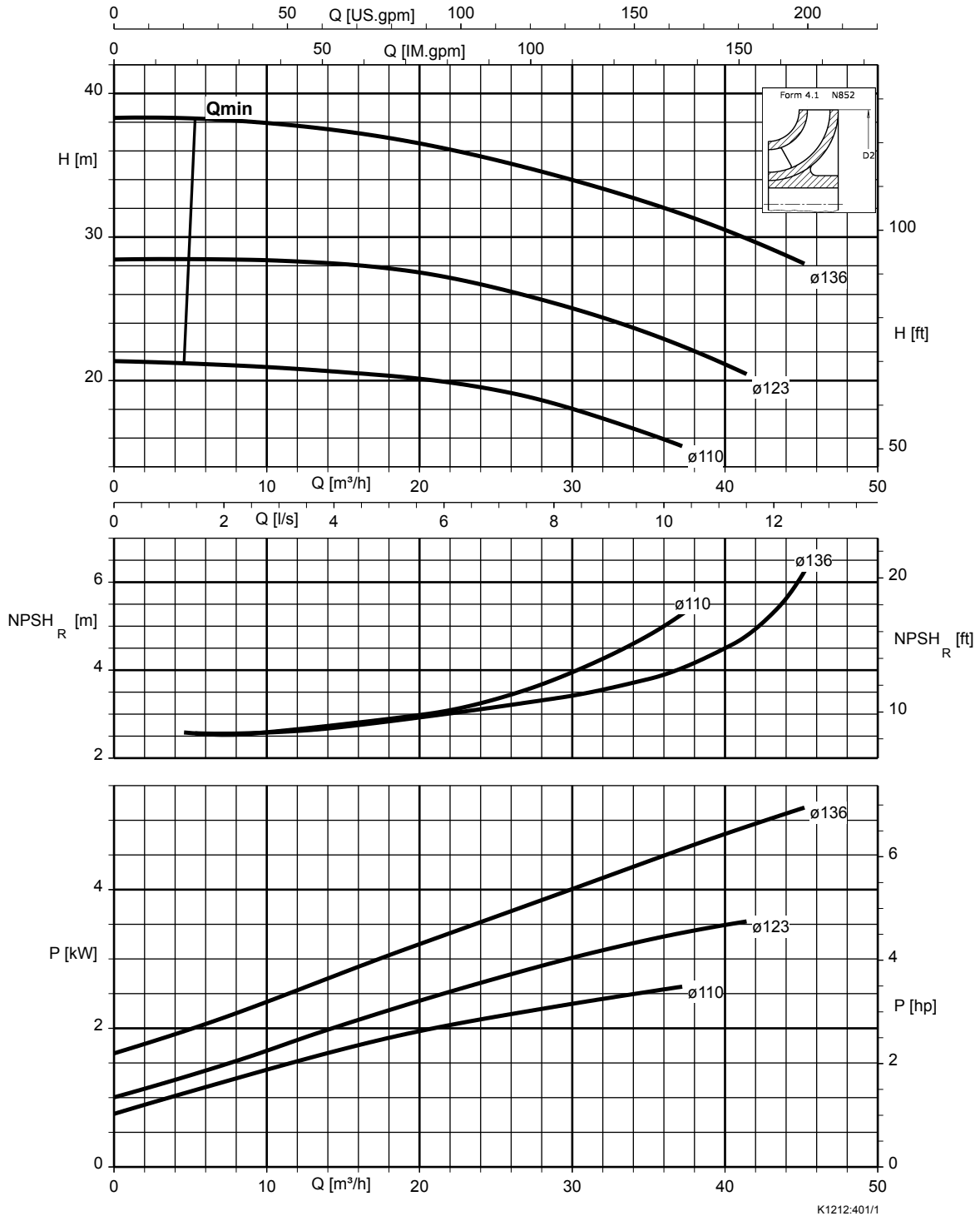
Etachrom L / Etachrom B, 050-025-160, n = 3500 rpm



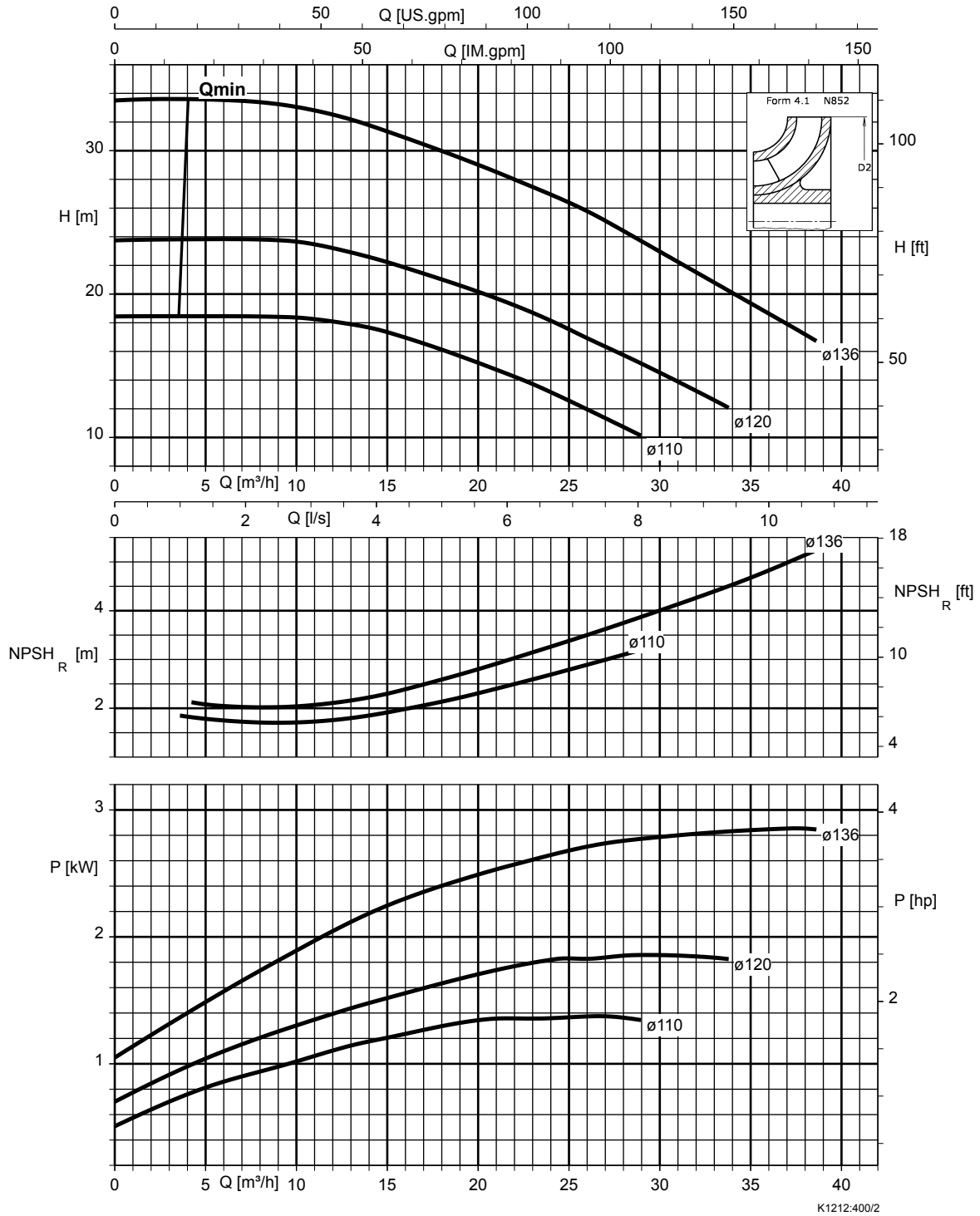
Etachrom L / Etachrom B, 050-025-200, n = 3500 rpm



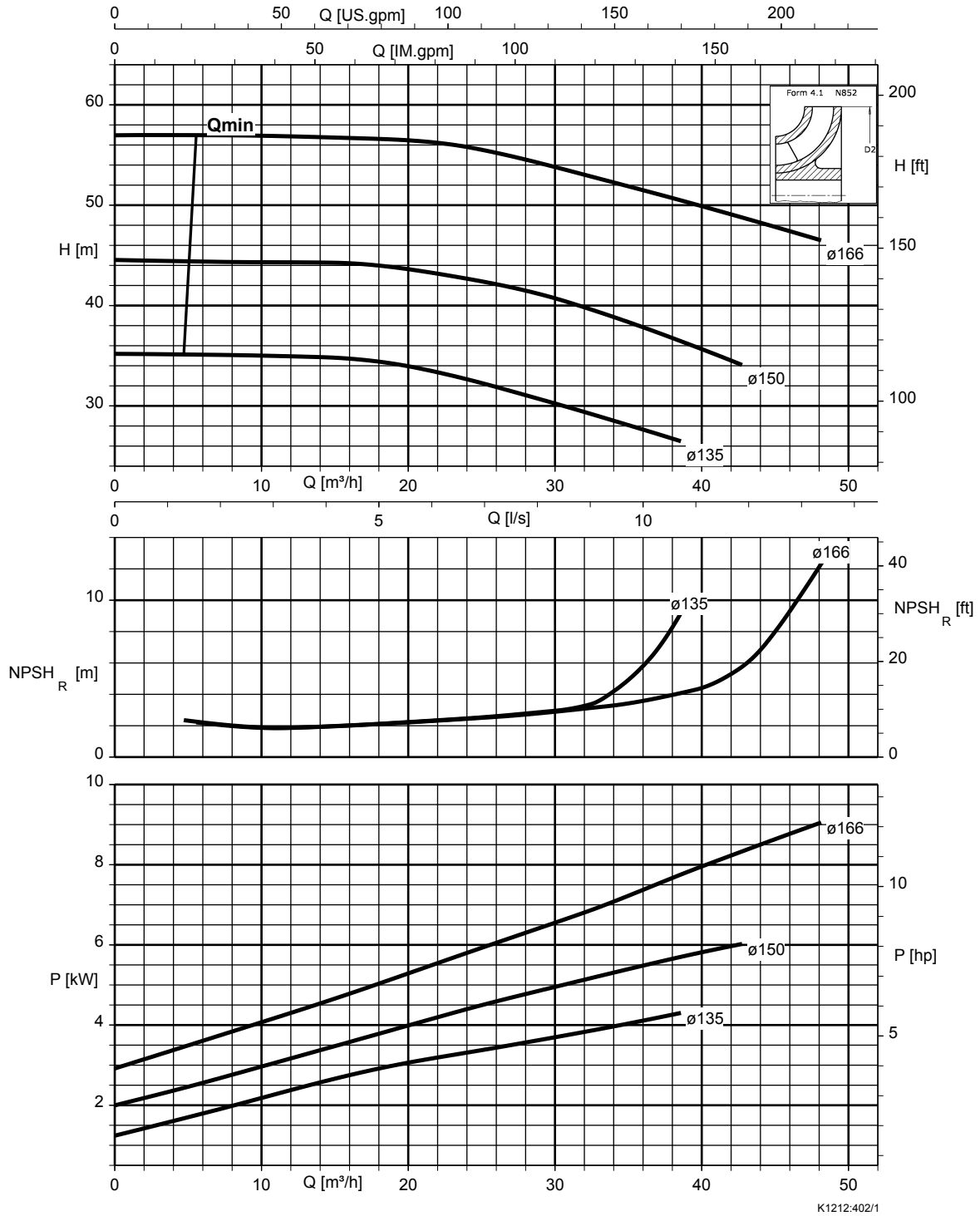
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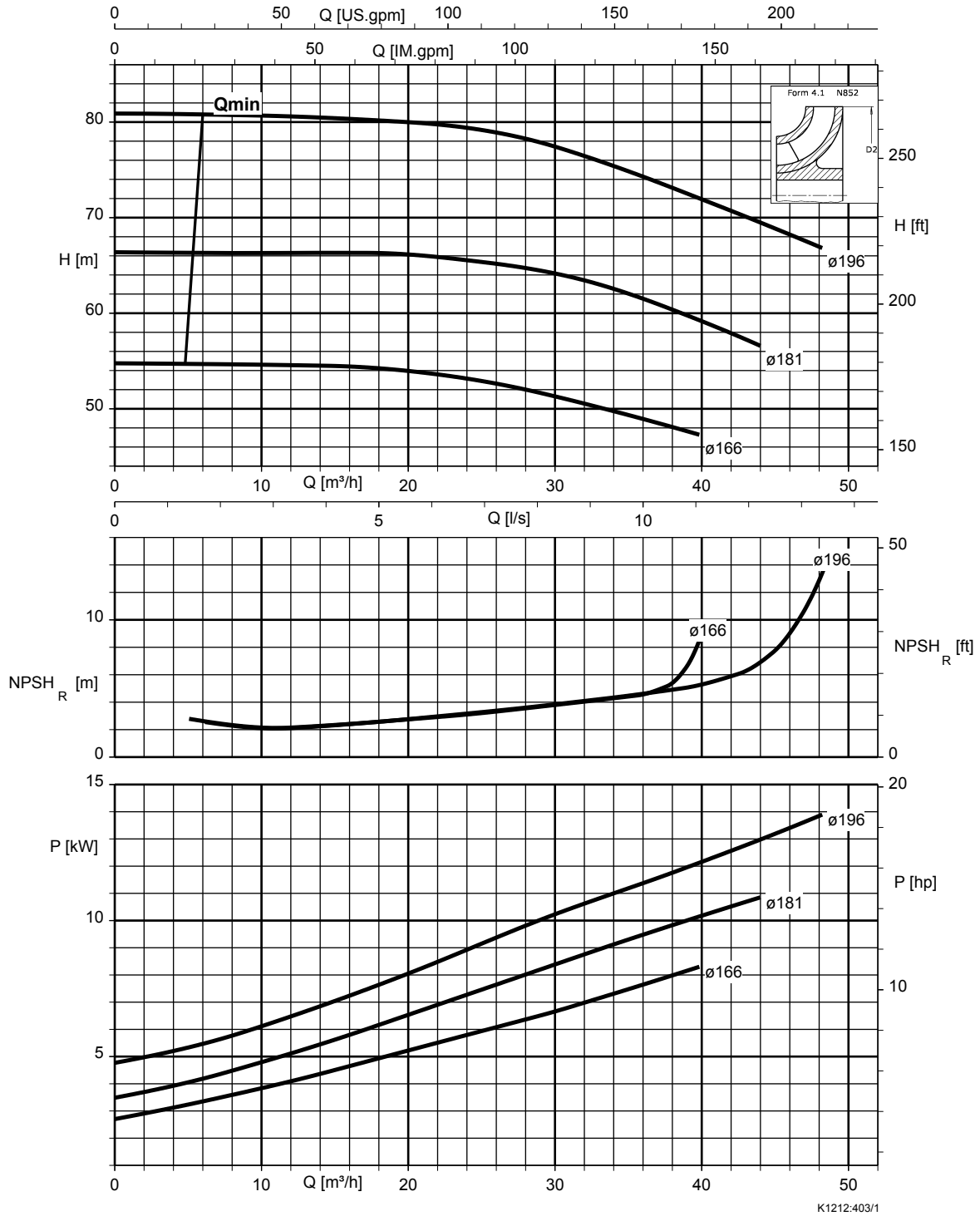
Etachrom L / Etachrom B, 050-032-125.1, n = 3500 rpm



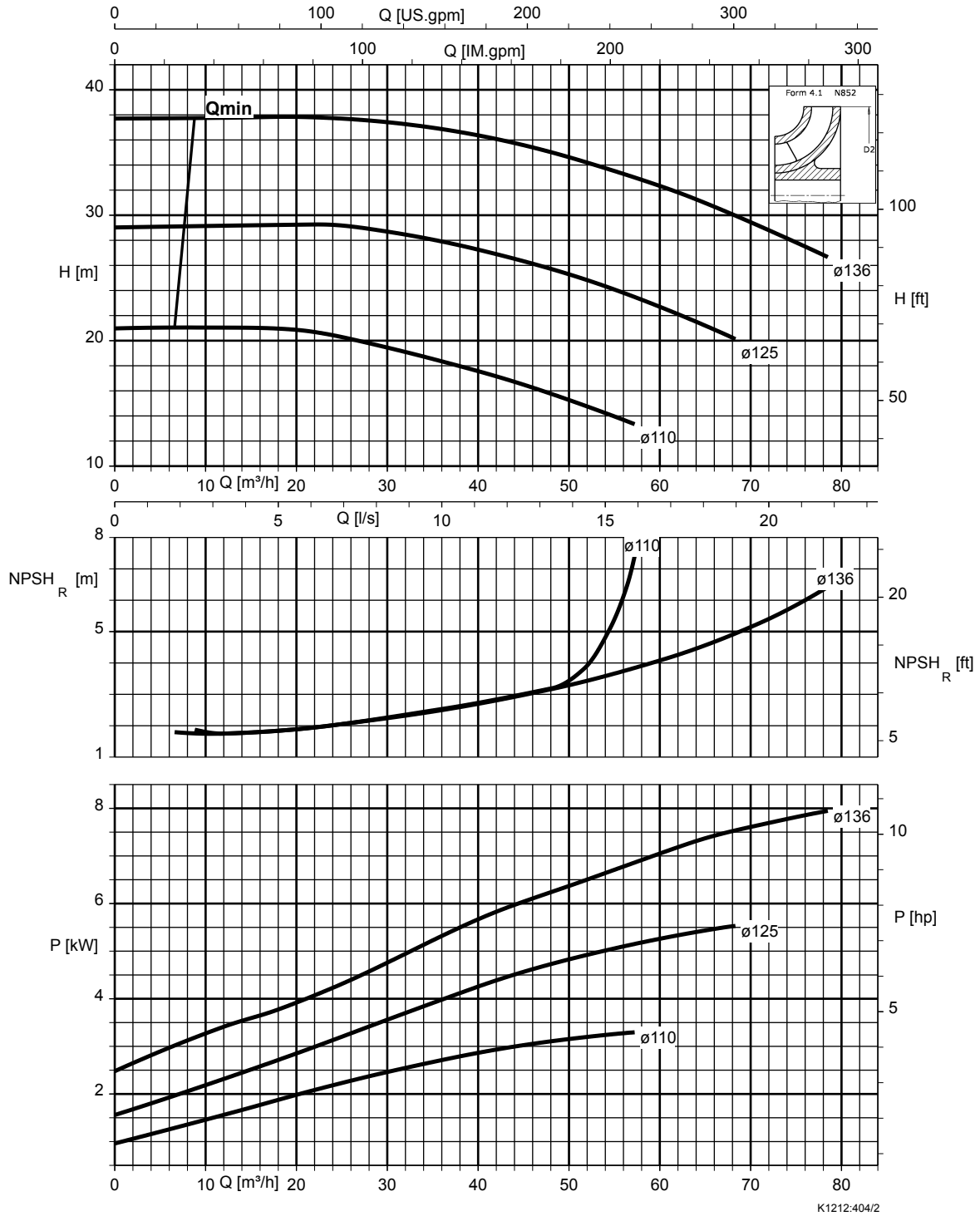
Etachrom L / Etachrom B, 050-032-160, n = 3500 rpm



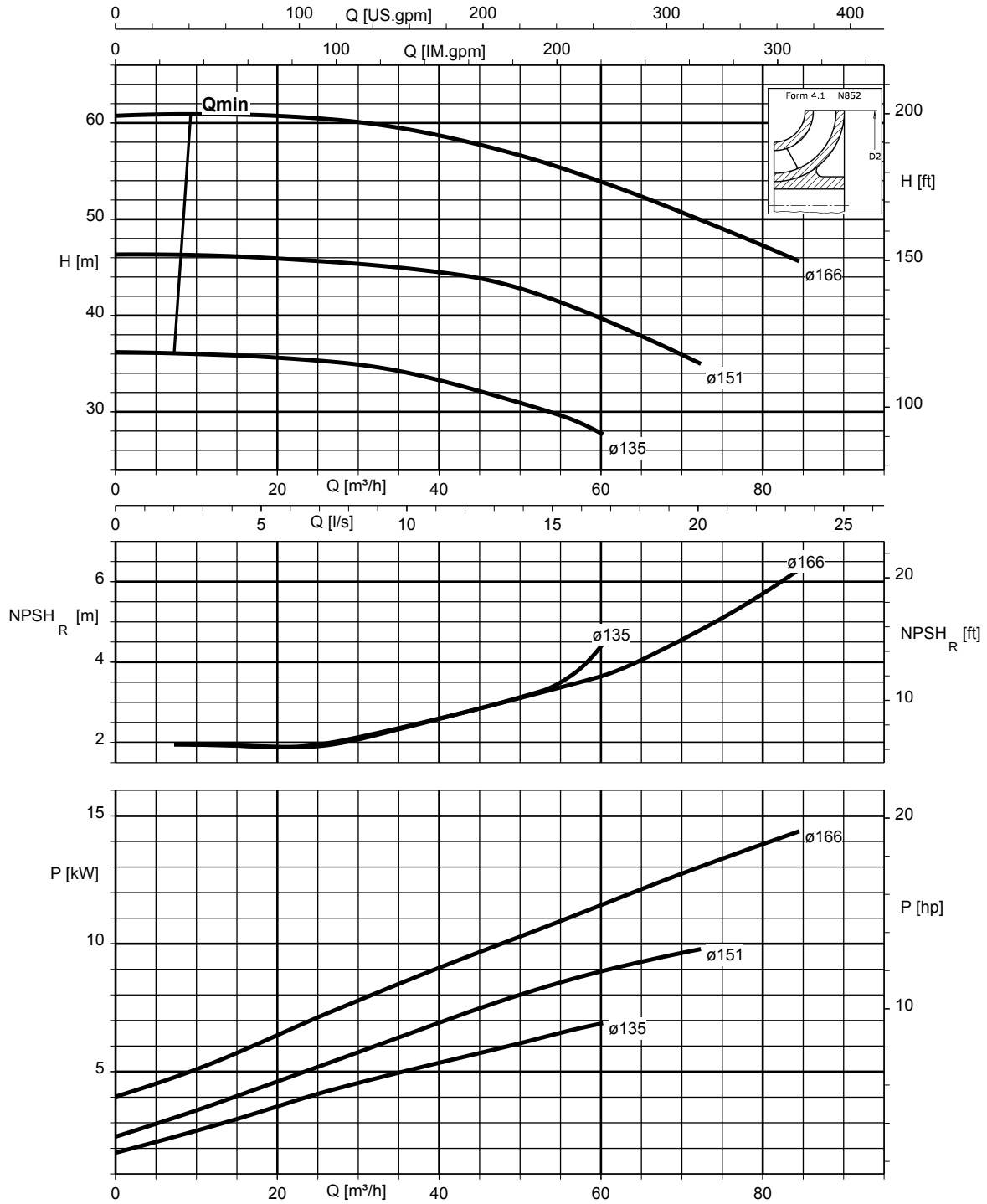
Etachrom L / Etachrom B, 050-032-200, n = 3500 rpm



Etachrom L / Etachrom B, 065-040-125, n = 3500 rpm

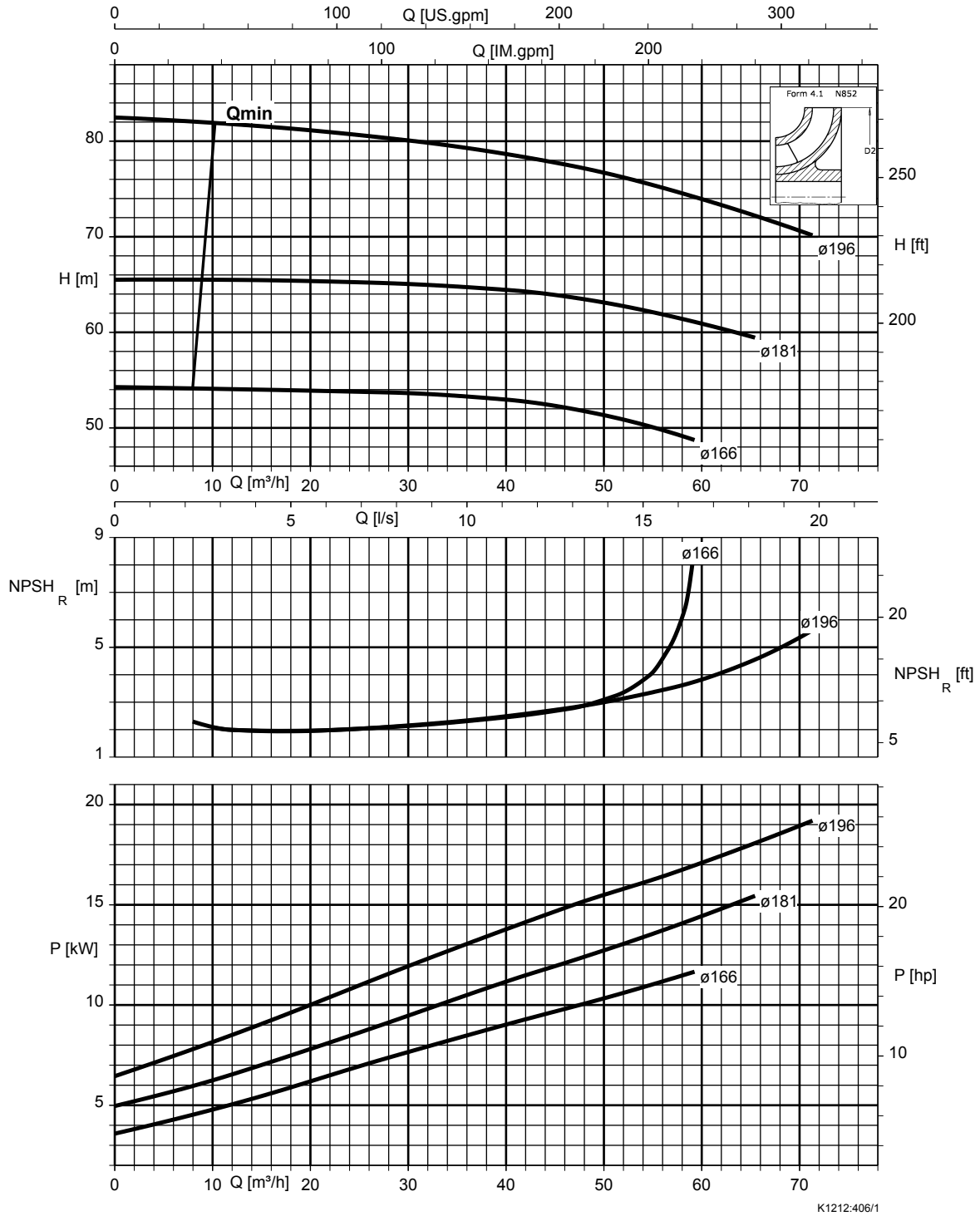


Etachrom L / Etachrom B, 065-040-160, n = 3500 rpm

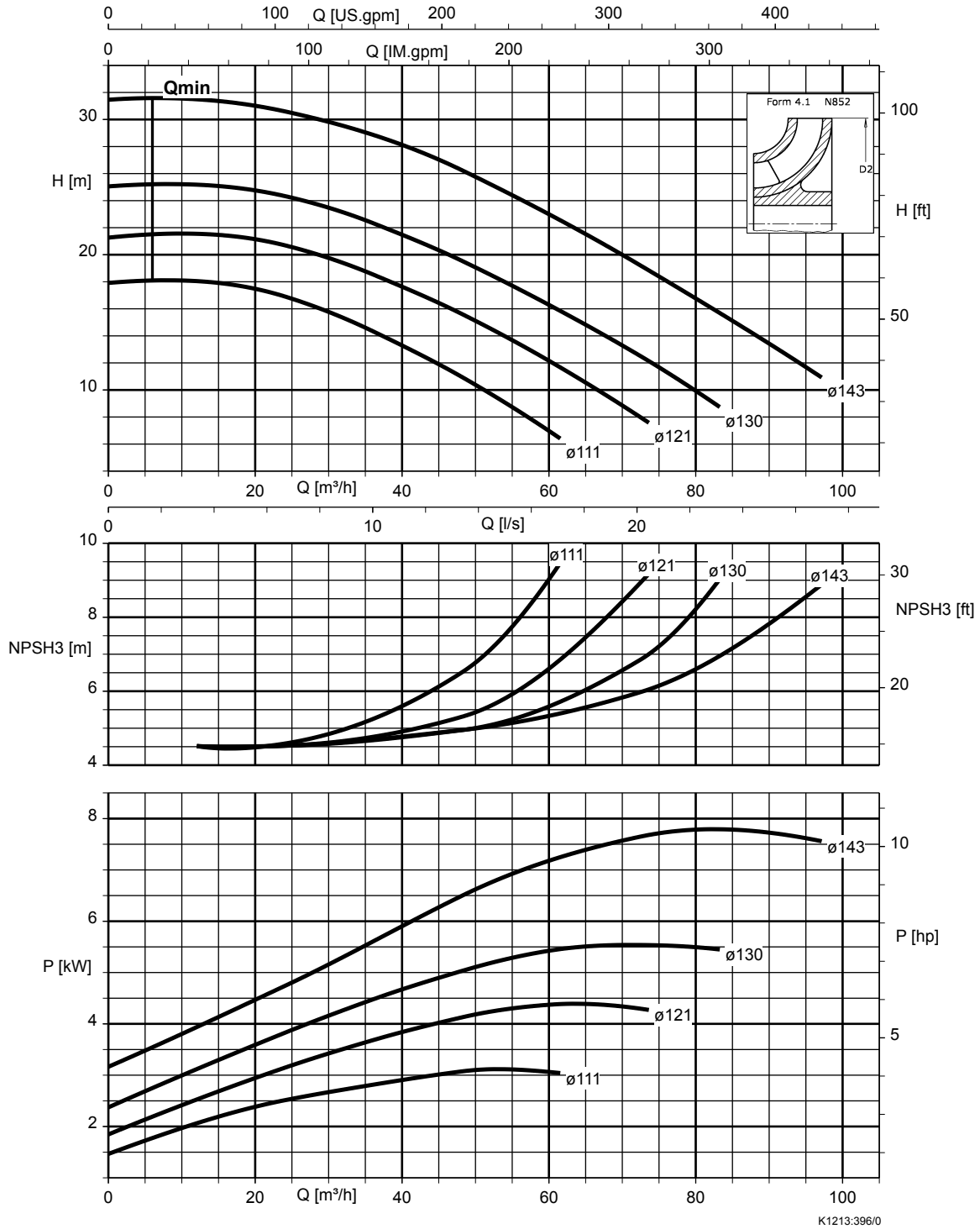


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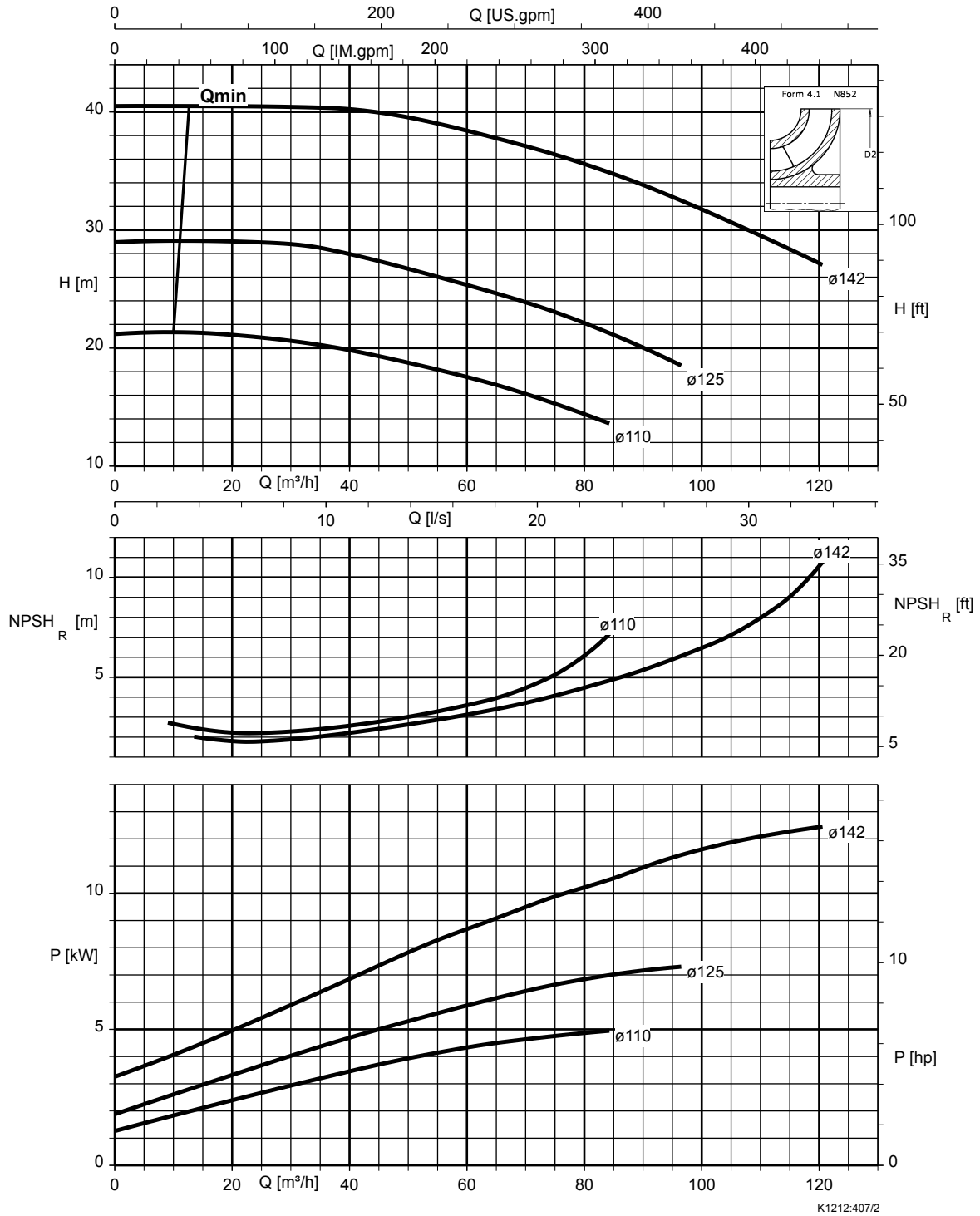
Etachrom L / Etachrom B, 065-040-200, n = 3500 rpm



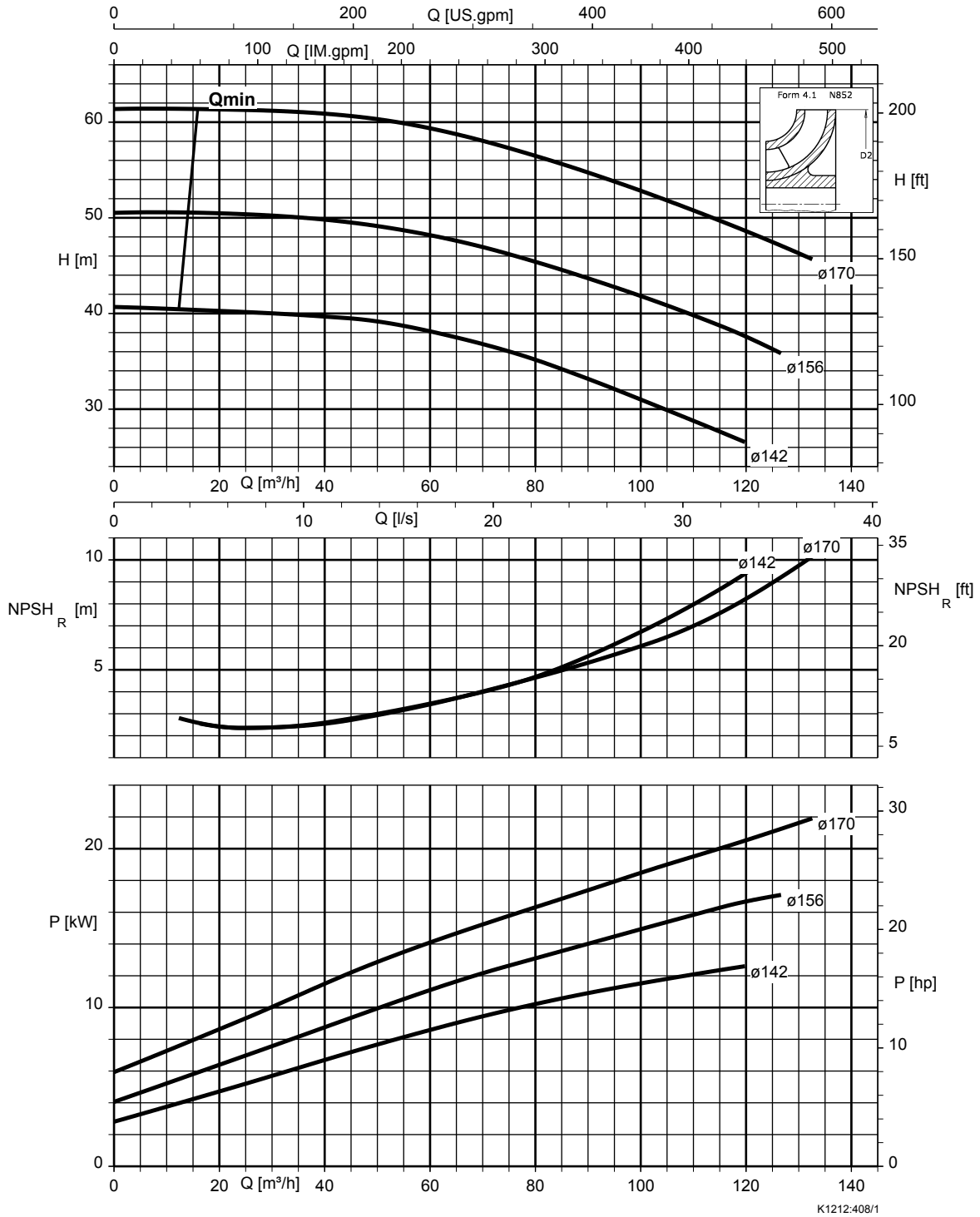
Etachrom B, 065-050-125, n = 3500 rpm, with free-flow impeller



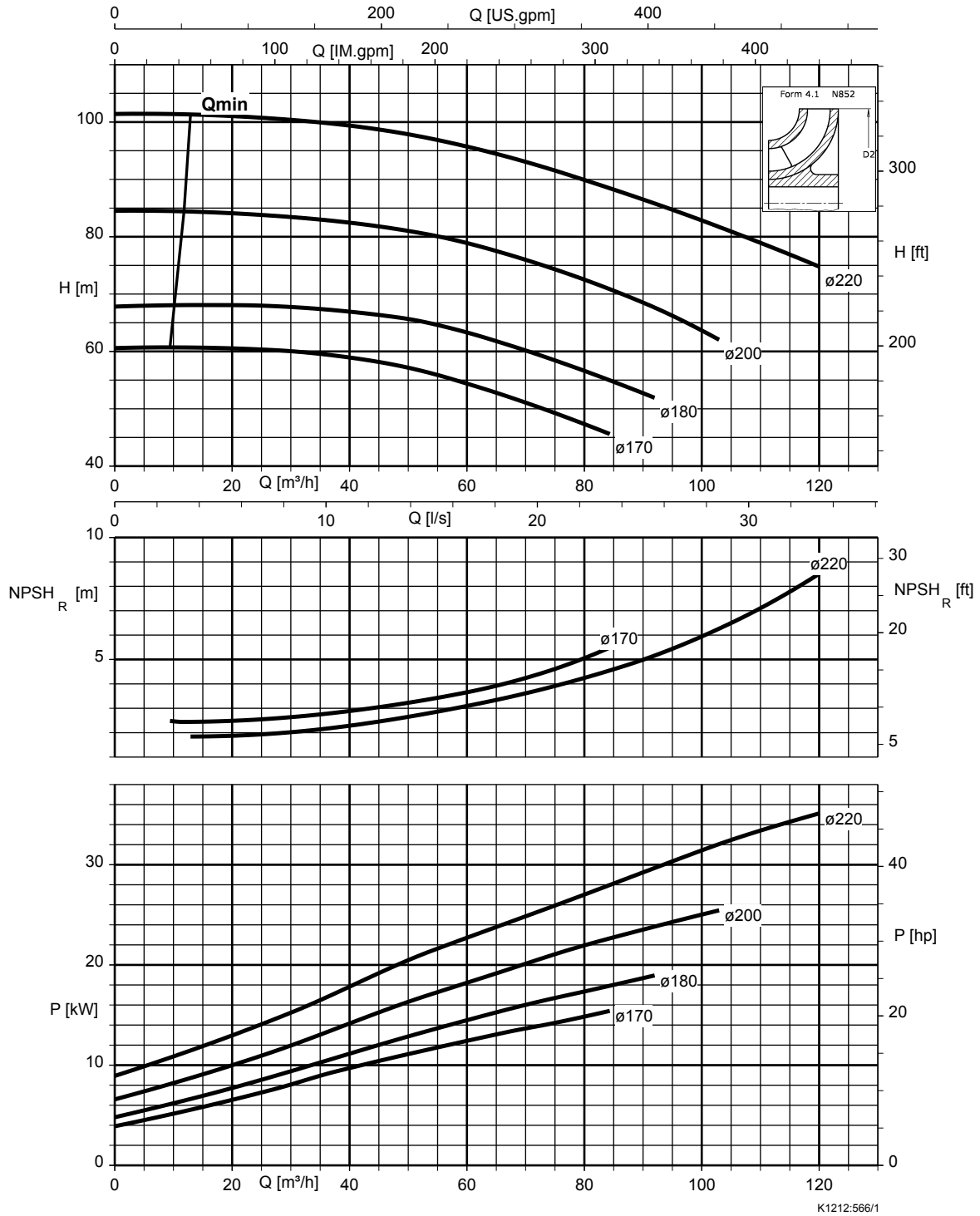
Etachrom L / Etachrom B, 065-050-125, n = 3500 rpm



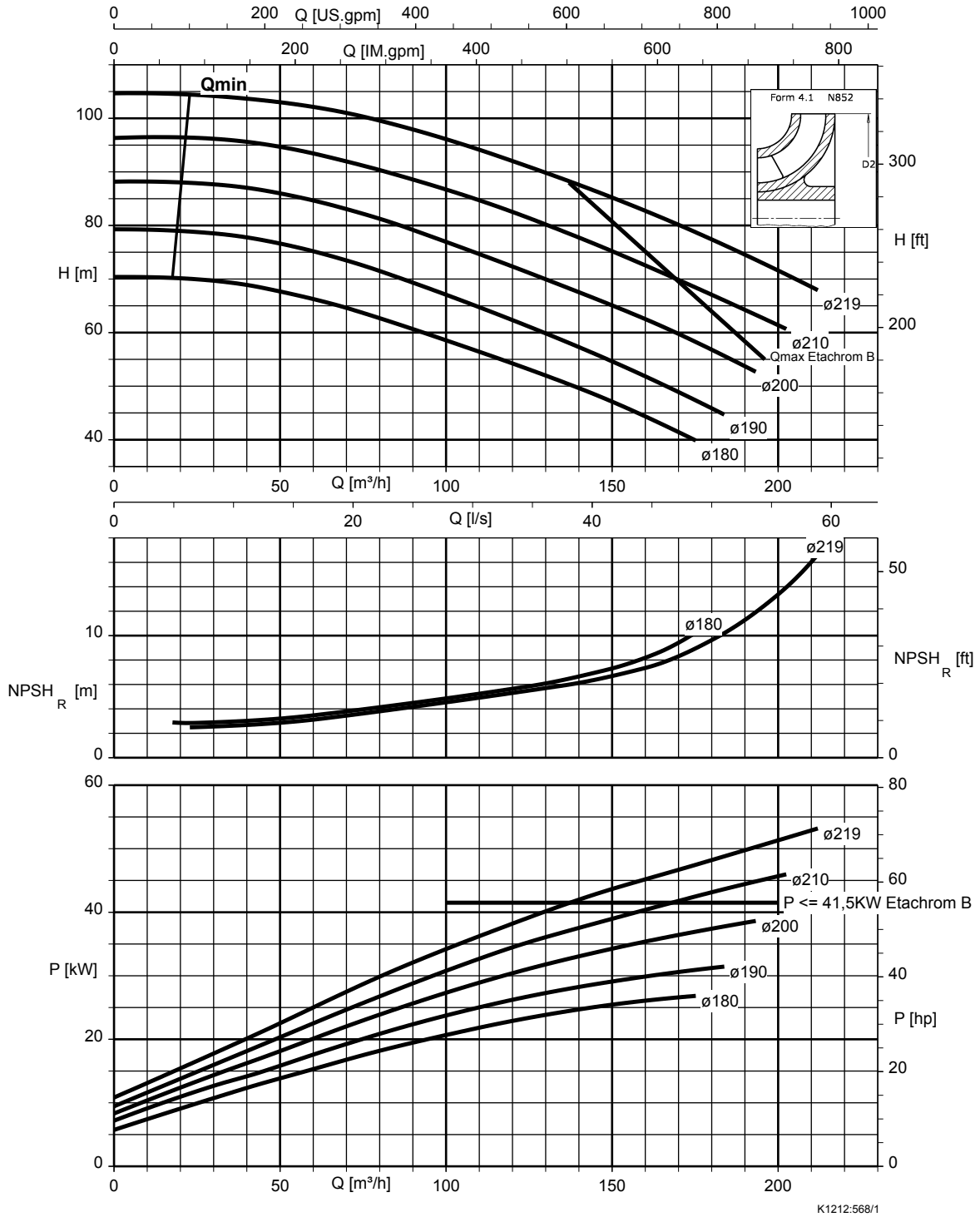
Etachrom L / Etachrom B, 065-050-160, n = 3500 rpm



Etachrom L / Etachrom B, 065-050-200, n = 3500 rpm

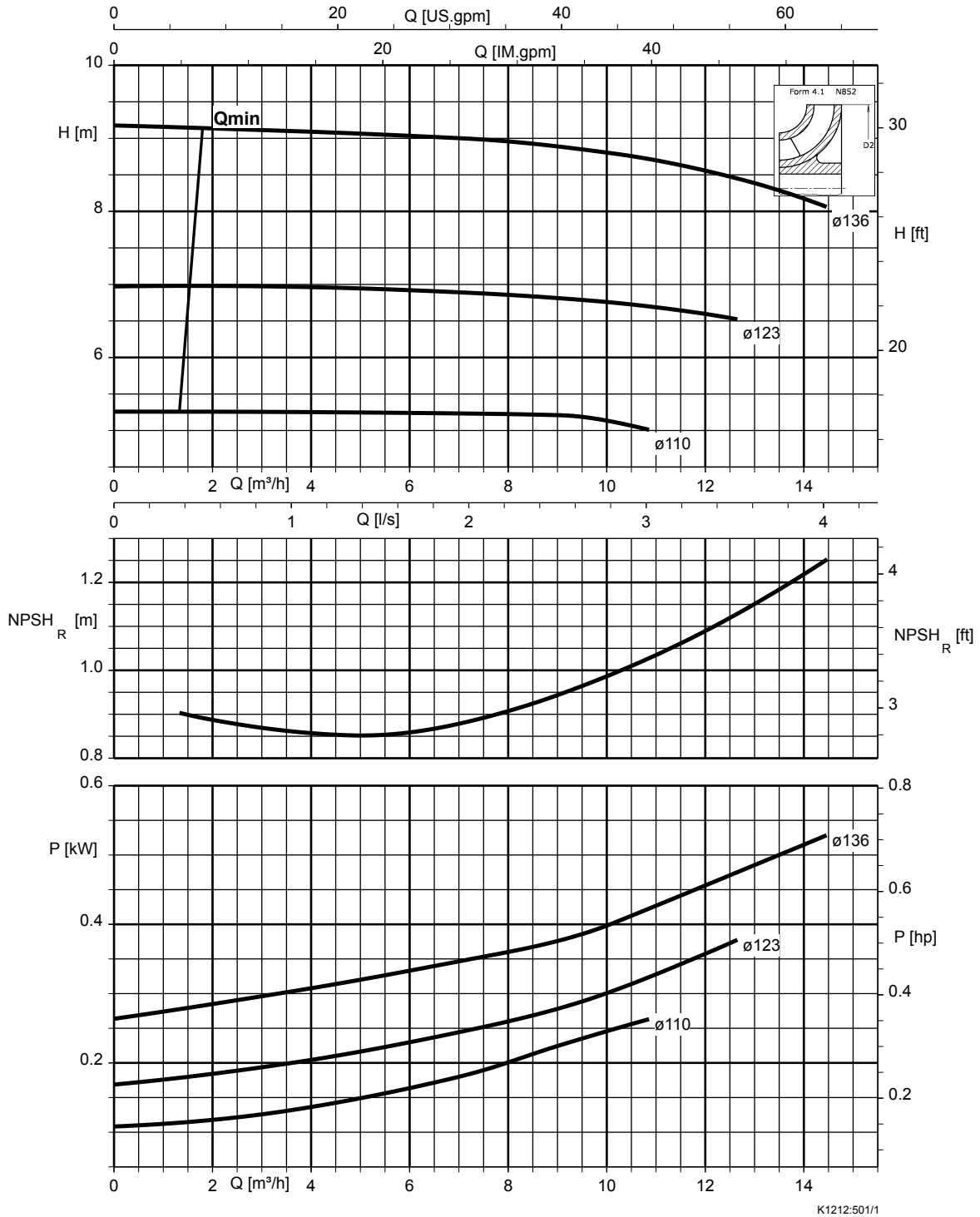


Etachrom L / Etachrom B, 080-065-200, n = 3500 rpm

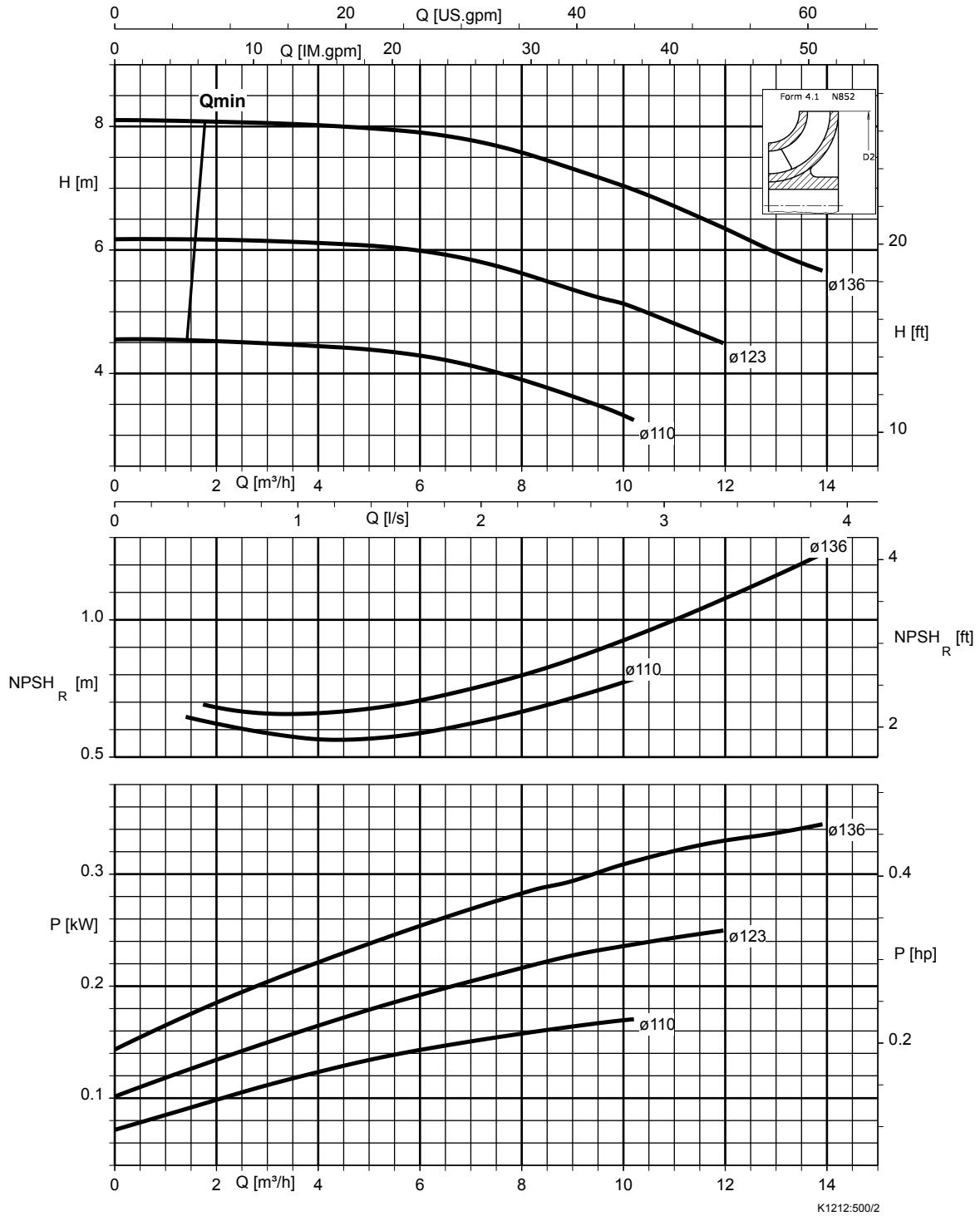


n = 1750 rpm

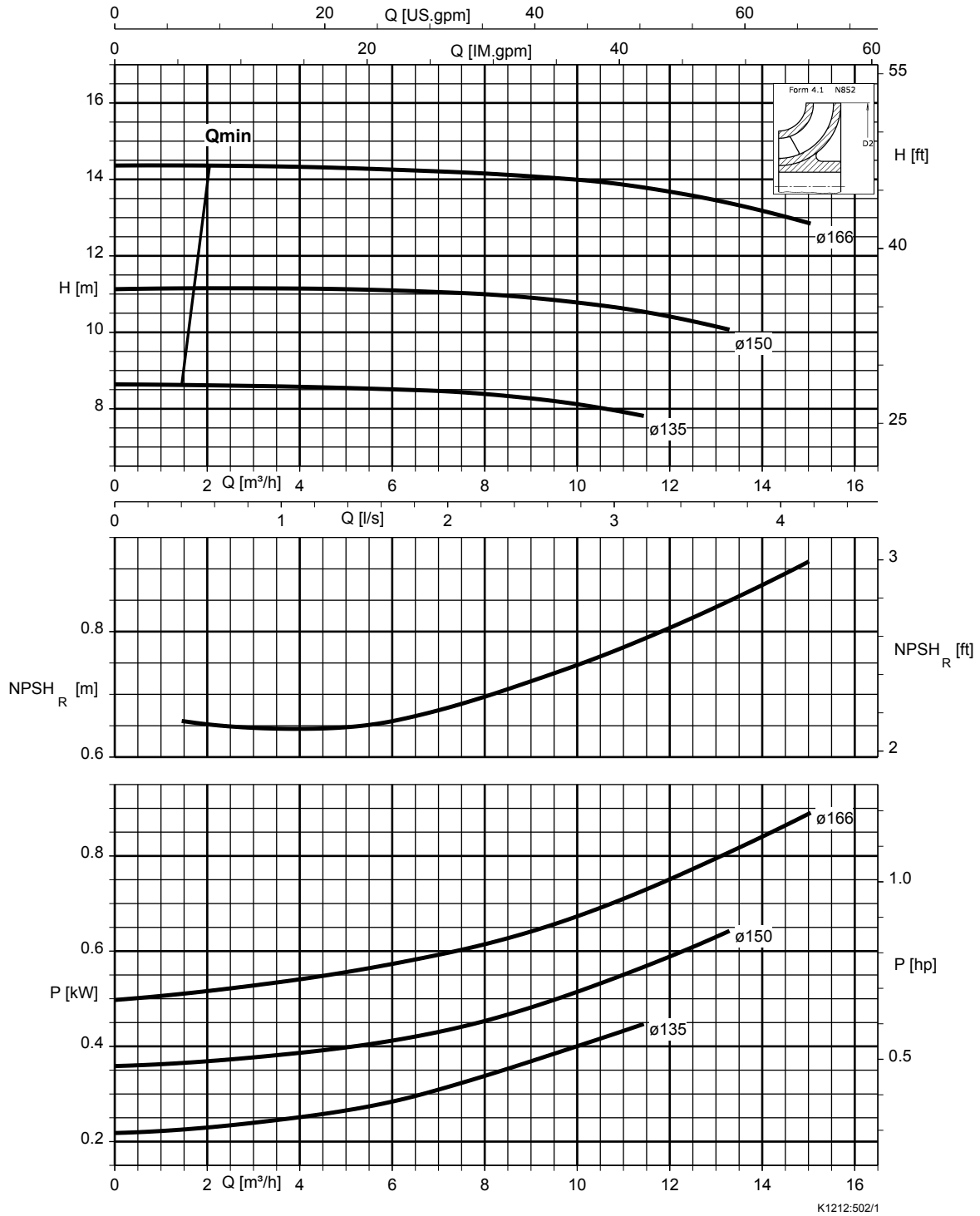
Etachrom L / Etachrom B, 050-025-125, n = 1750 rpm



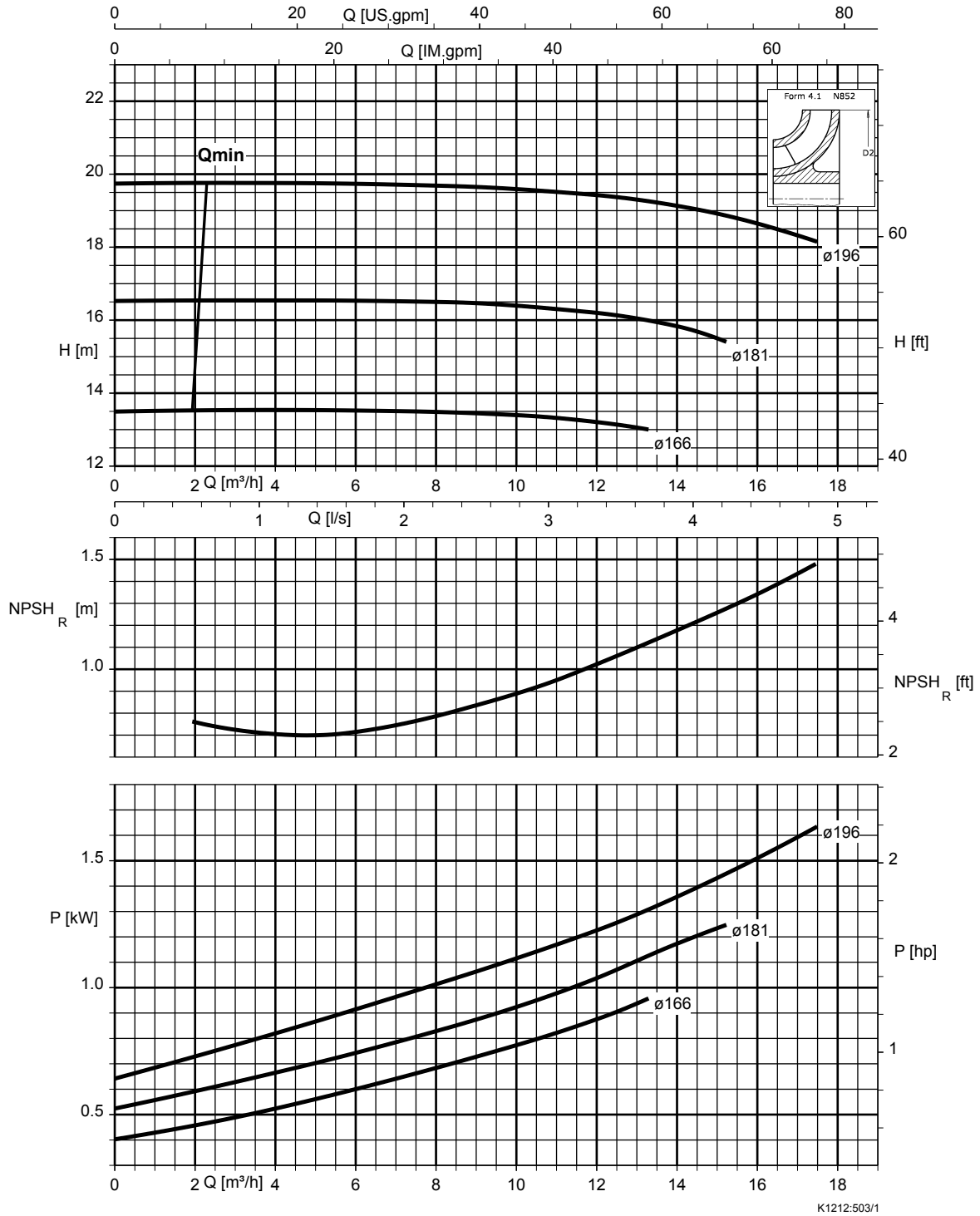
Etachrom L / Etachrom B, 050-025-125.1, n = 1750 rpm



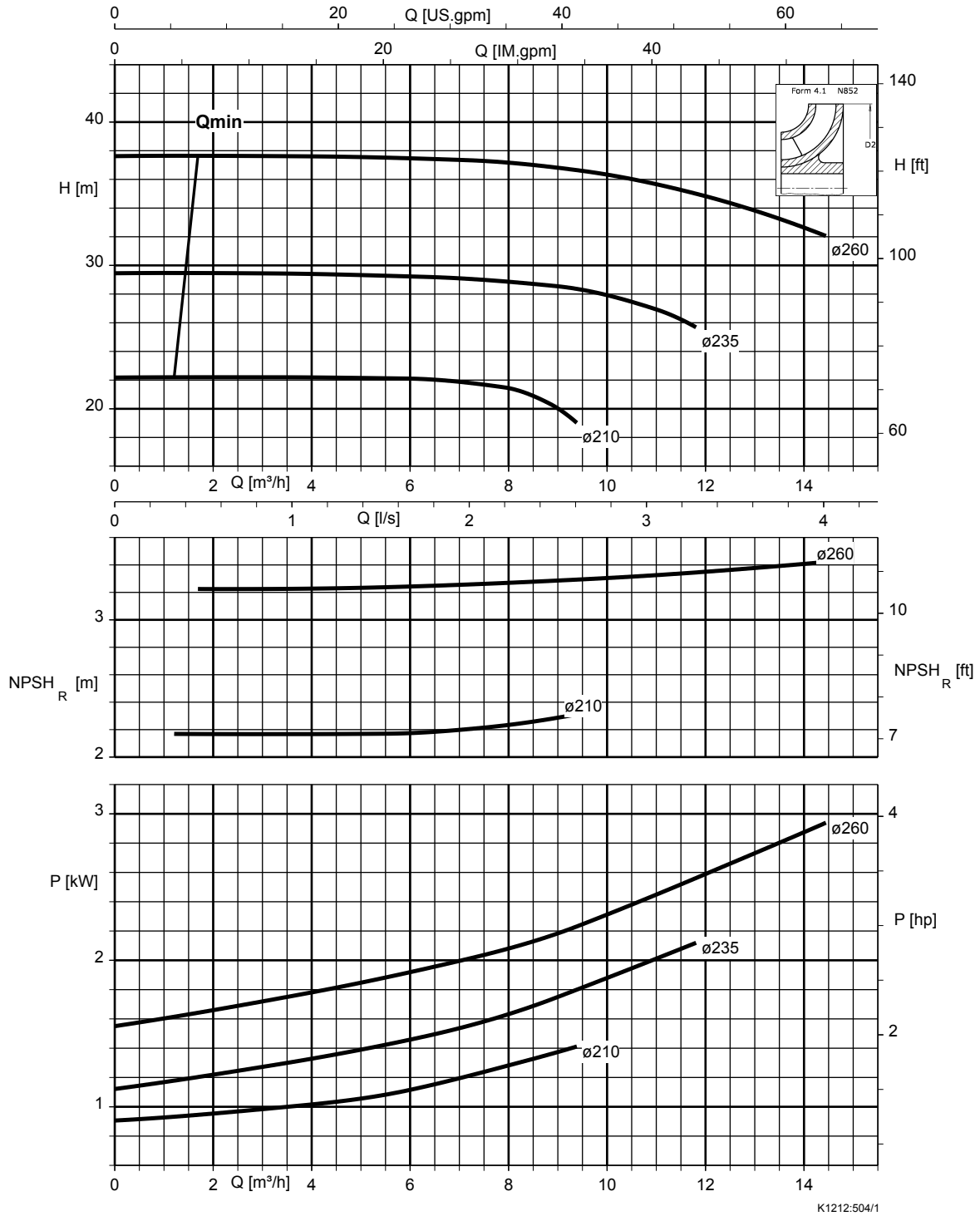
Etachrom L / Etachrom B, 050-025-160, n = 1750 rpm



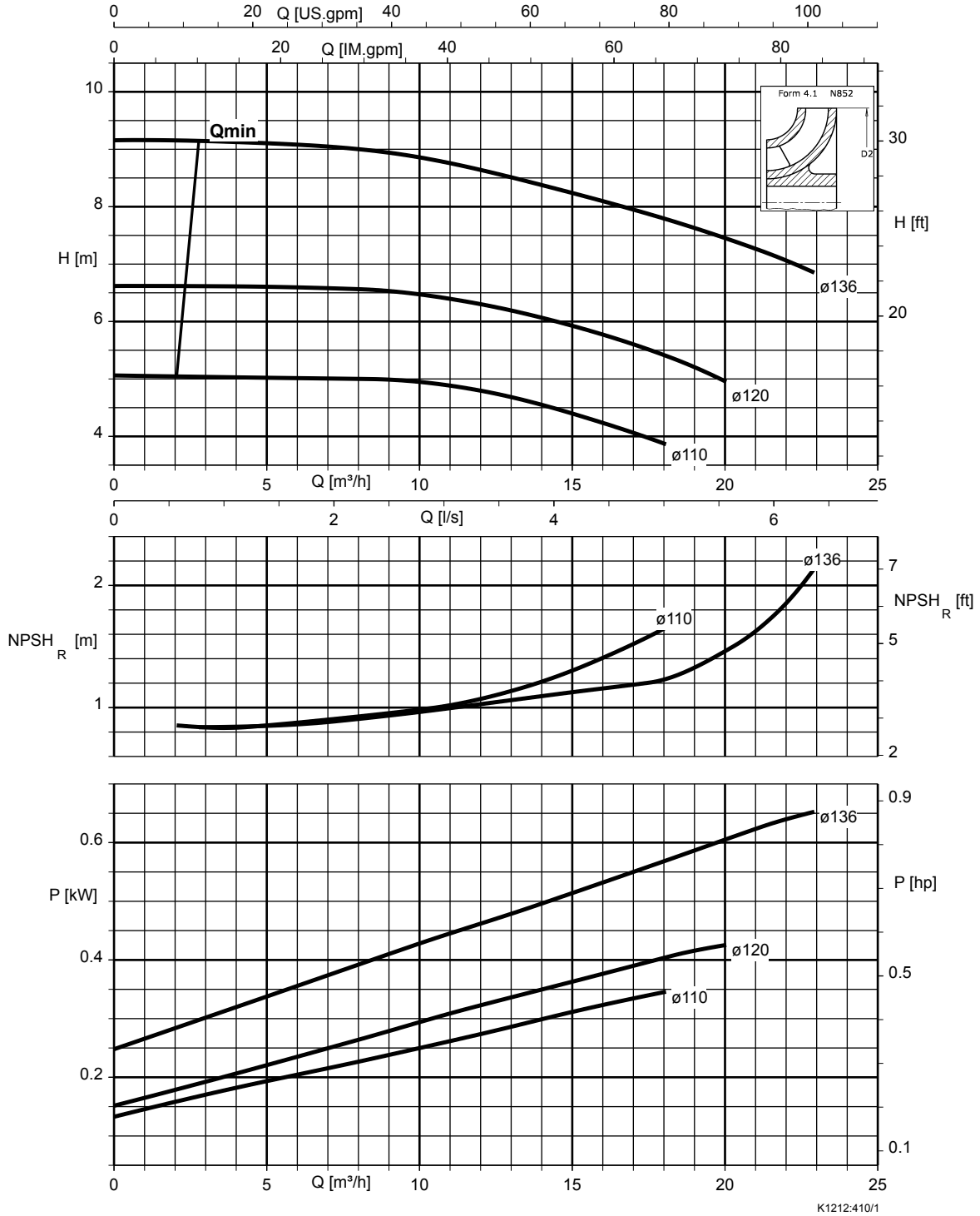
Etachrom L / Etachrom B, 050-025-200, n = 1750 rpm



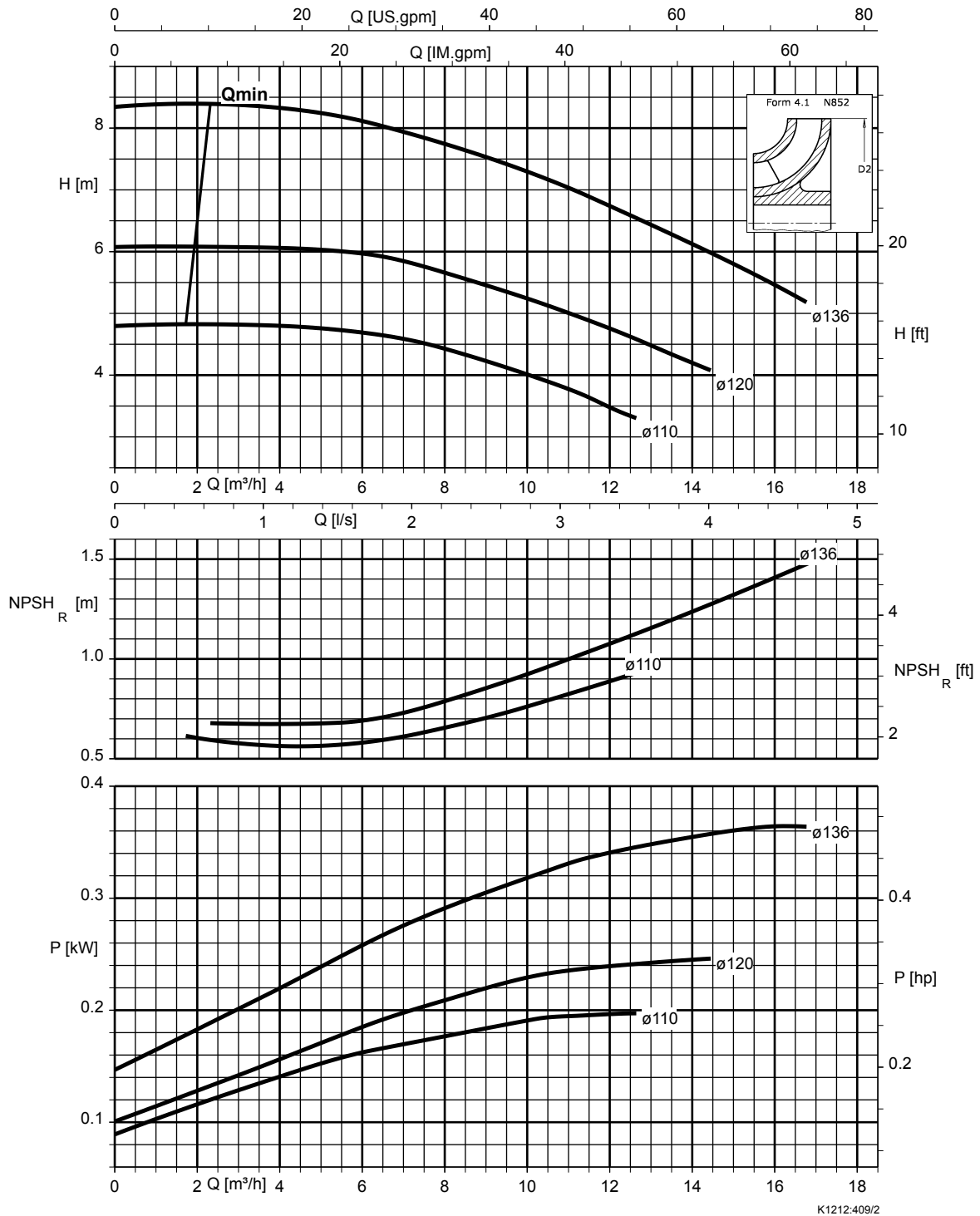
Etachrom L / Etachrom B, 050-025-250, n = 1750 rpm



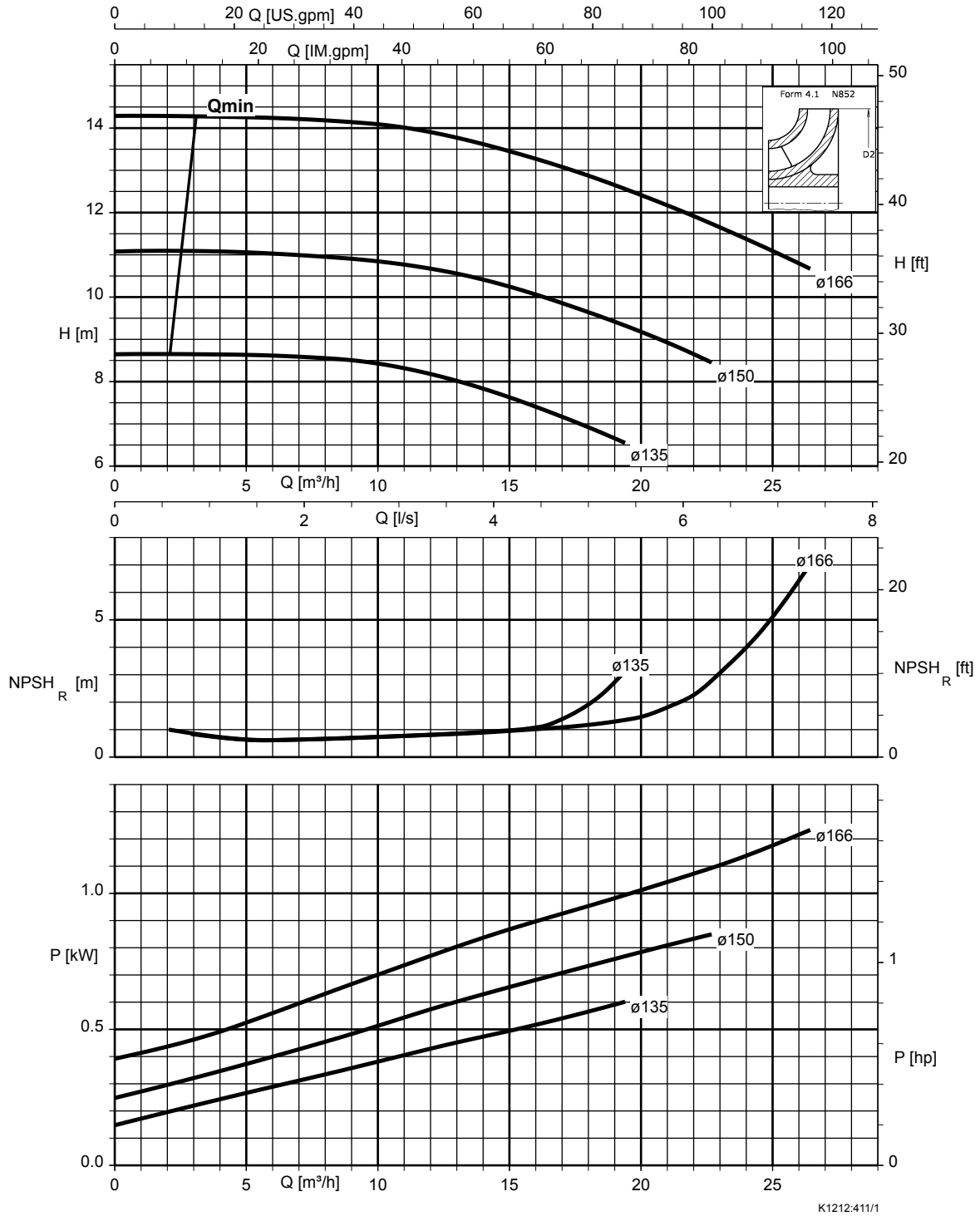
Etachrom L / Etachrom B, 050-032-125, n = 1750 rpm



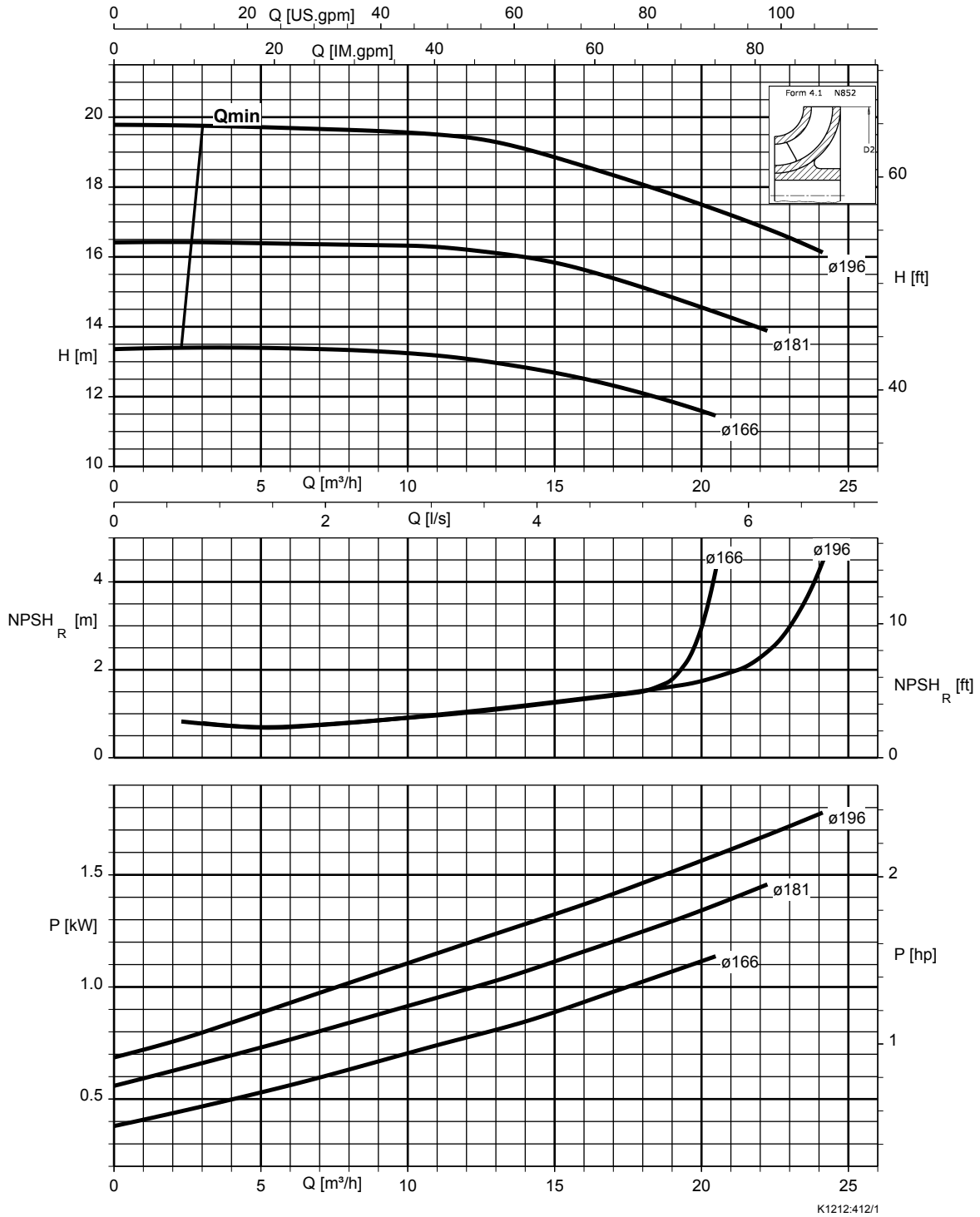
Etachrom L / Etachrom B, 050-032-125.1, n = 1750 rpm



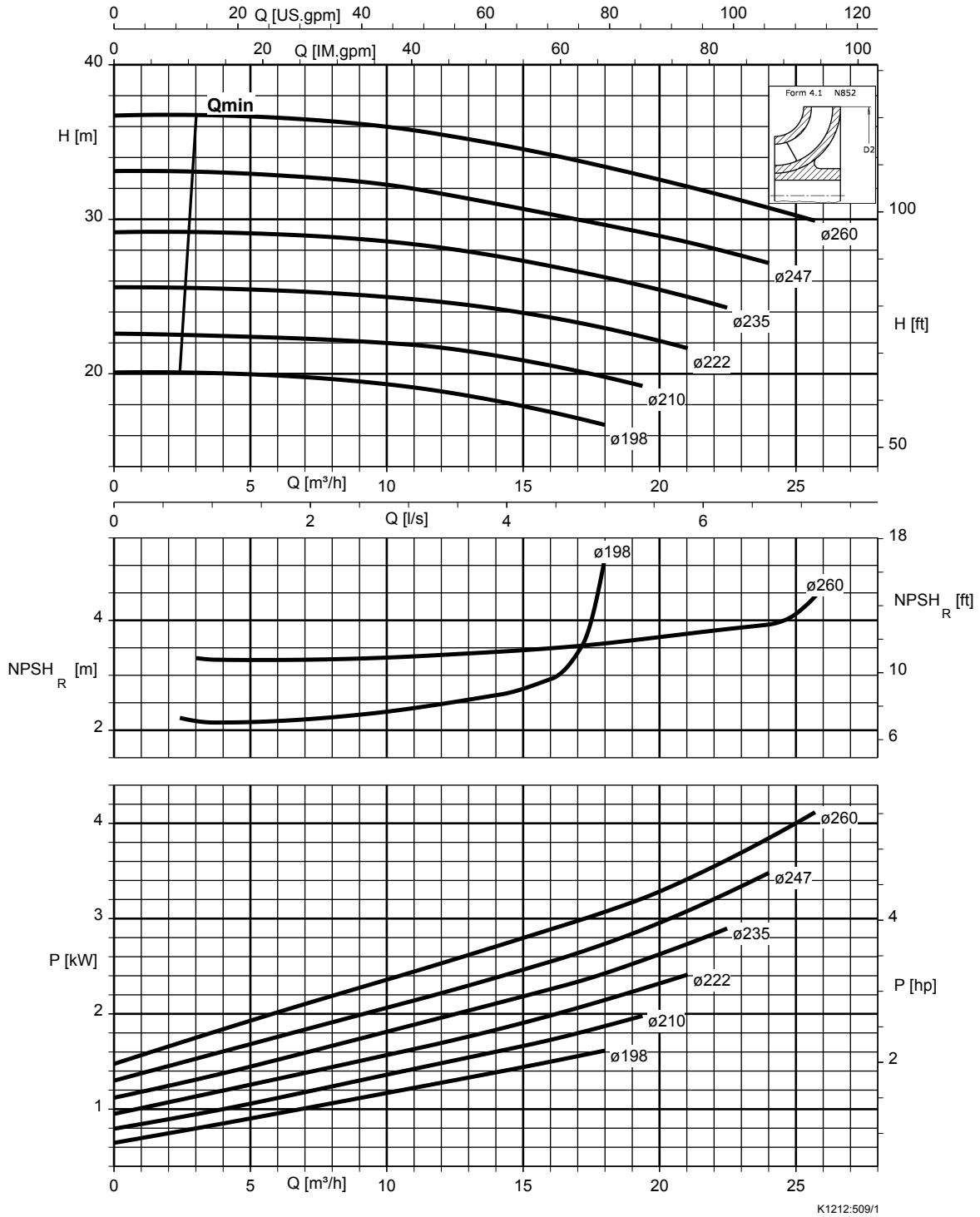
Etachrom L / Etachrom B, 050-032-160, n = 1750 rpm



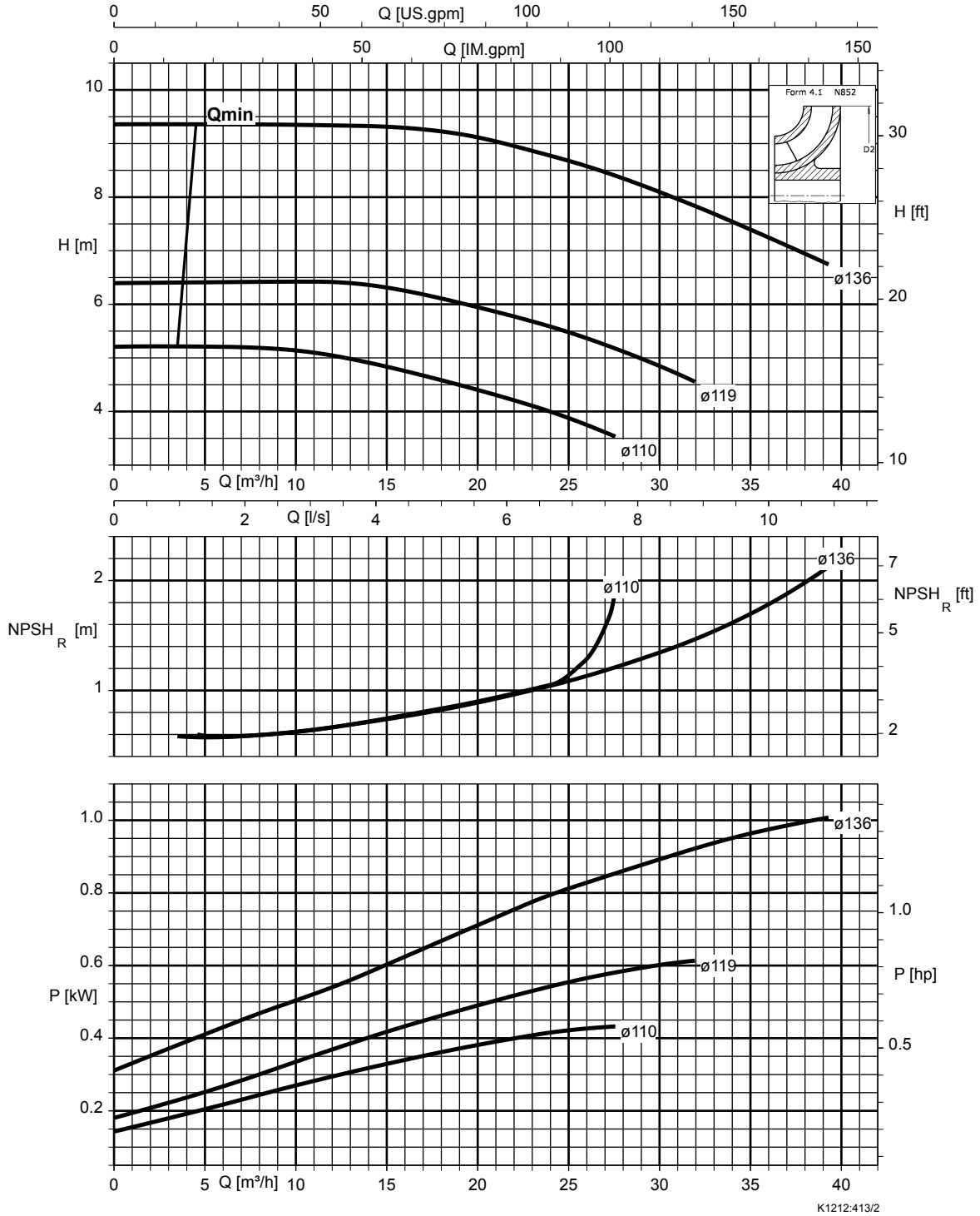
Etachrom L / Etachrom B, 050-032-200, n = 1750 rpm



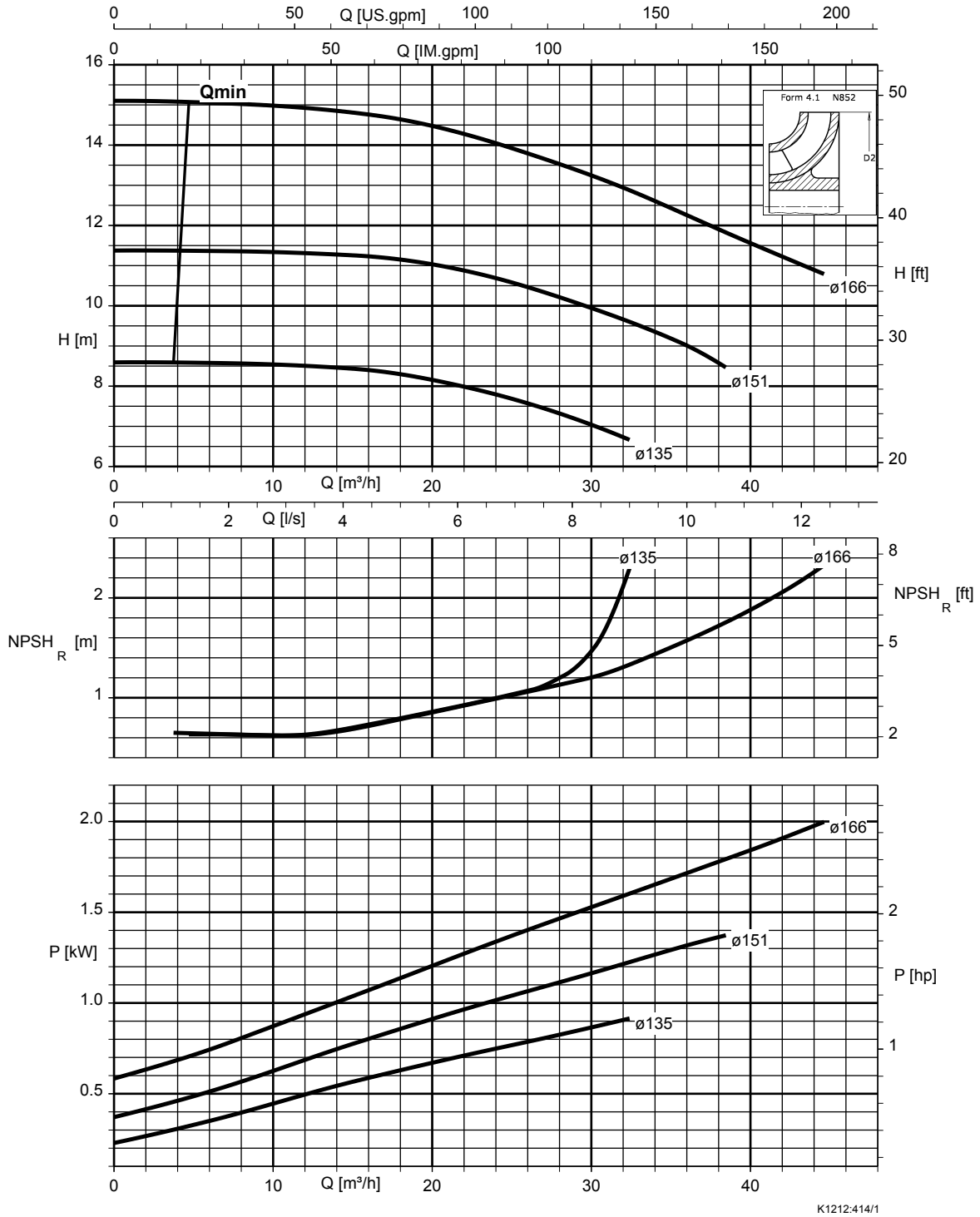
Etachrom L / Etachrom B, 050-032-250, n = 1750 rpm



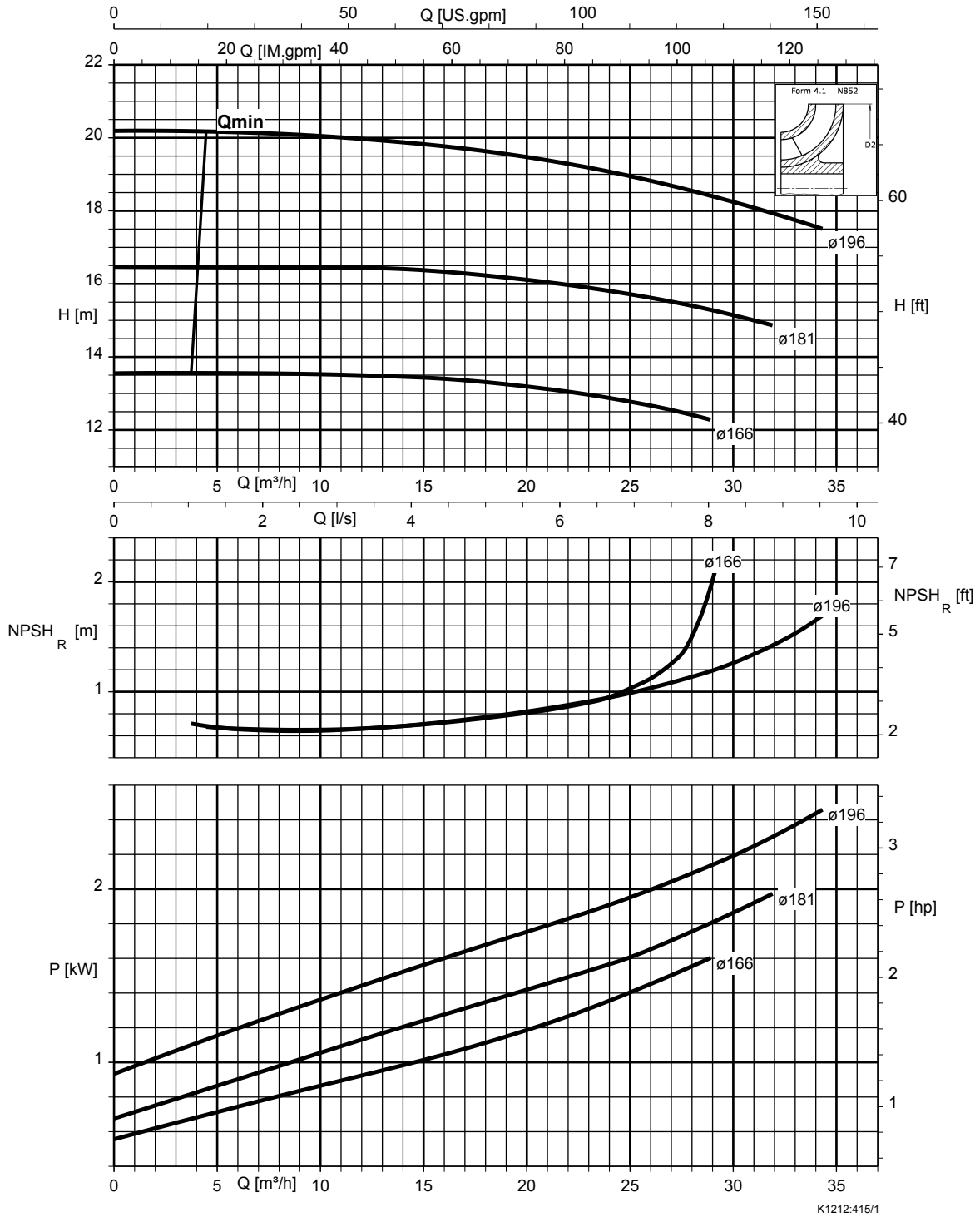
Etachrom L / Etachrom B, 065-040-125, n = 1750 rpm



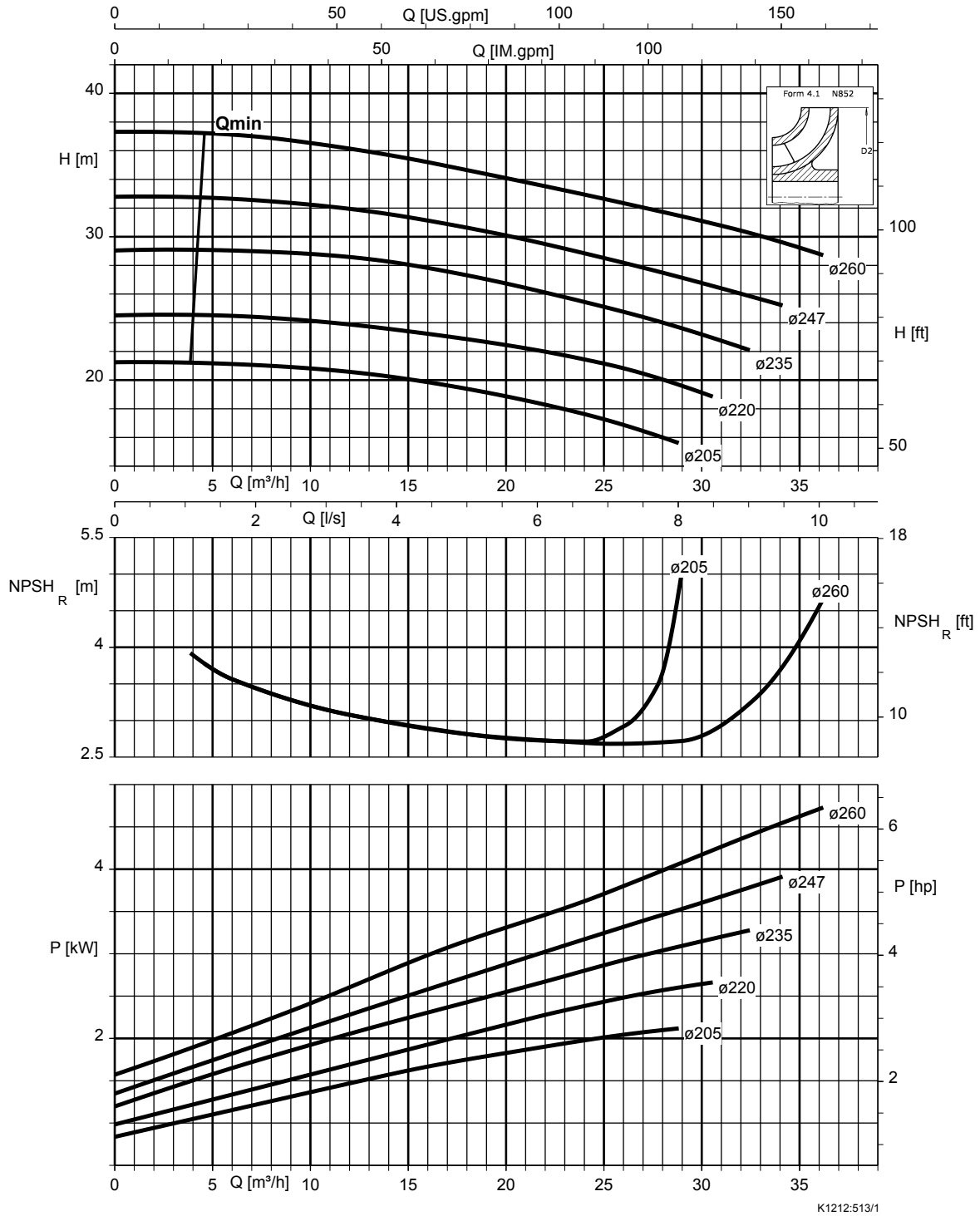
Etachrom L / Etachrom B, 065-040-160, n = 1750 rpm



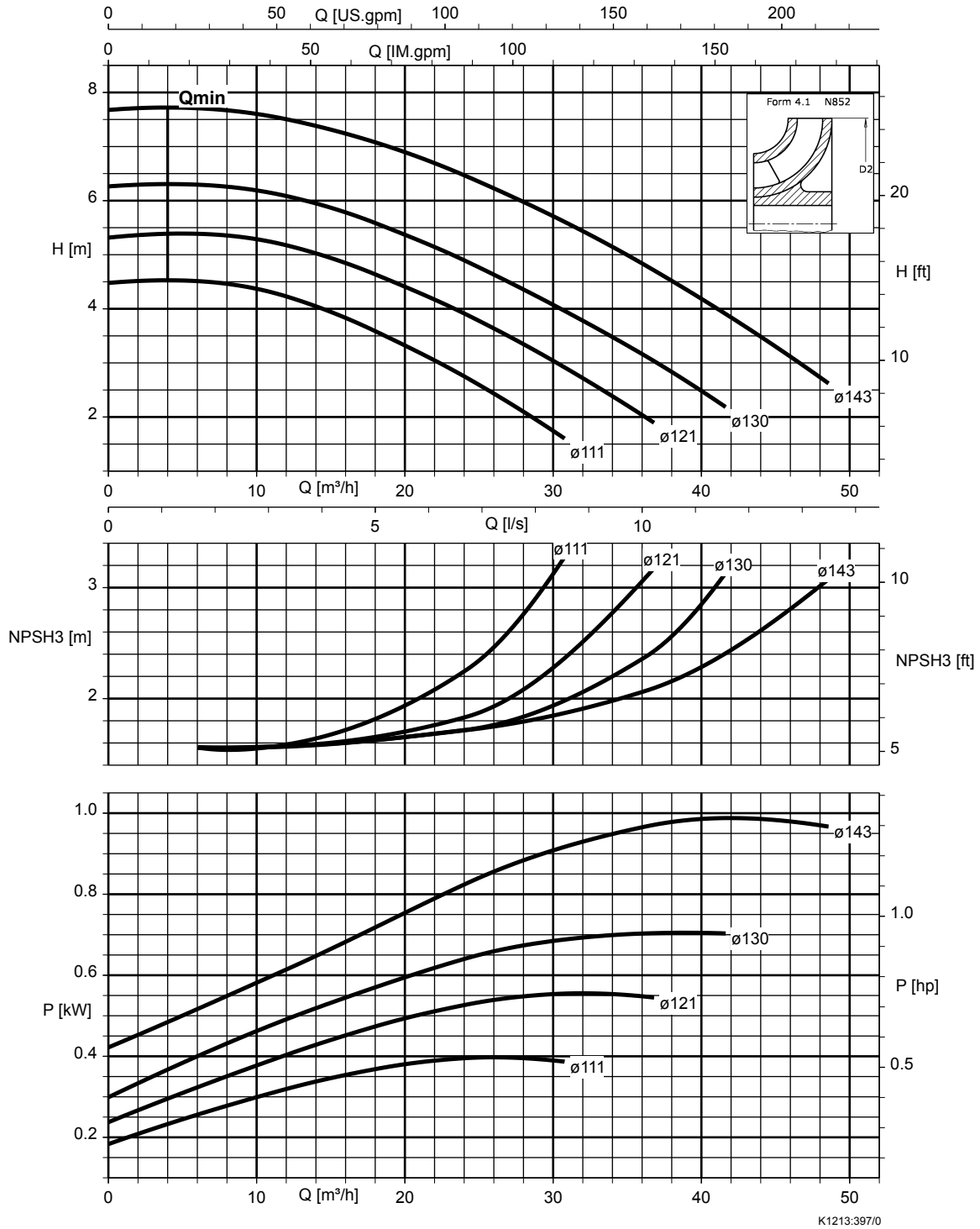
Etachrom L / Etachrom B, 065-040-200, n = 1750 rpm



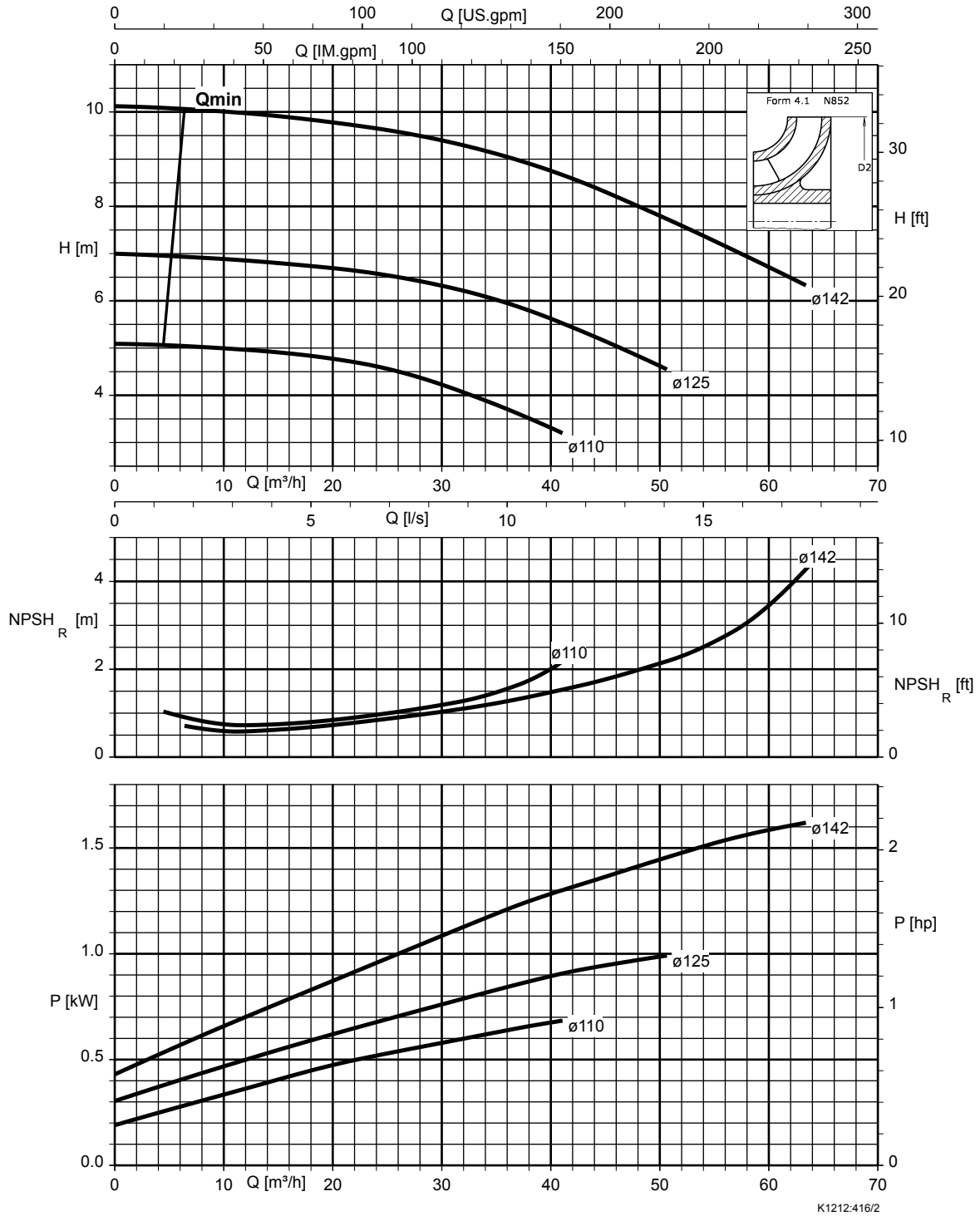
Etachrom L / Etachrom B, 065-040-250, n = 1750 rpm



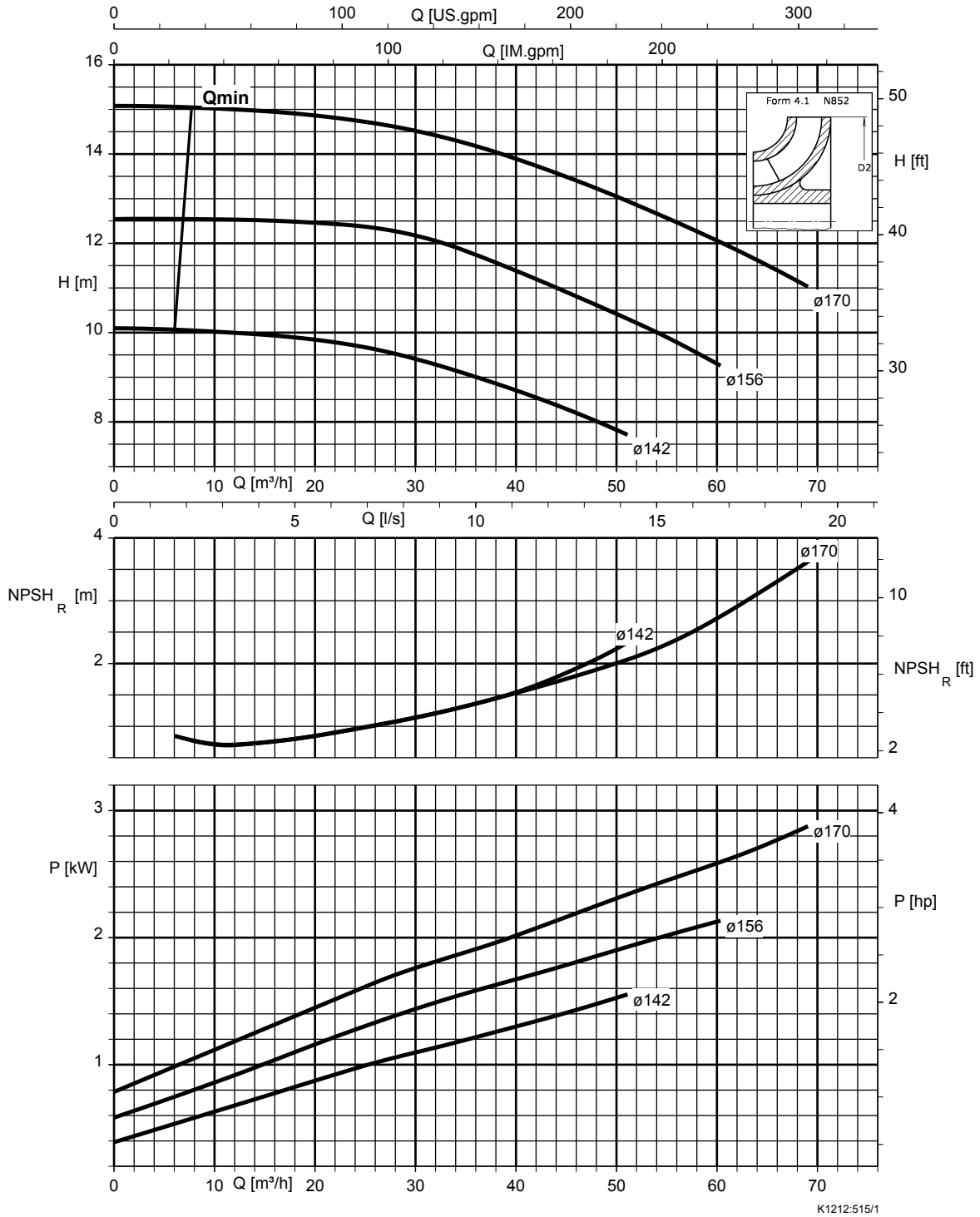
Etachrom B, 065-050-125, n = 1750 rpm, with free-flow impeller



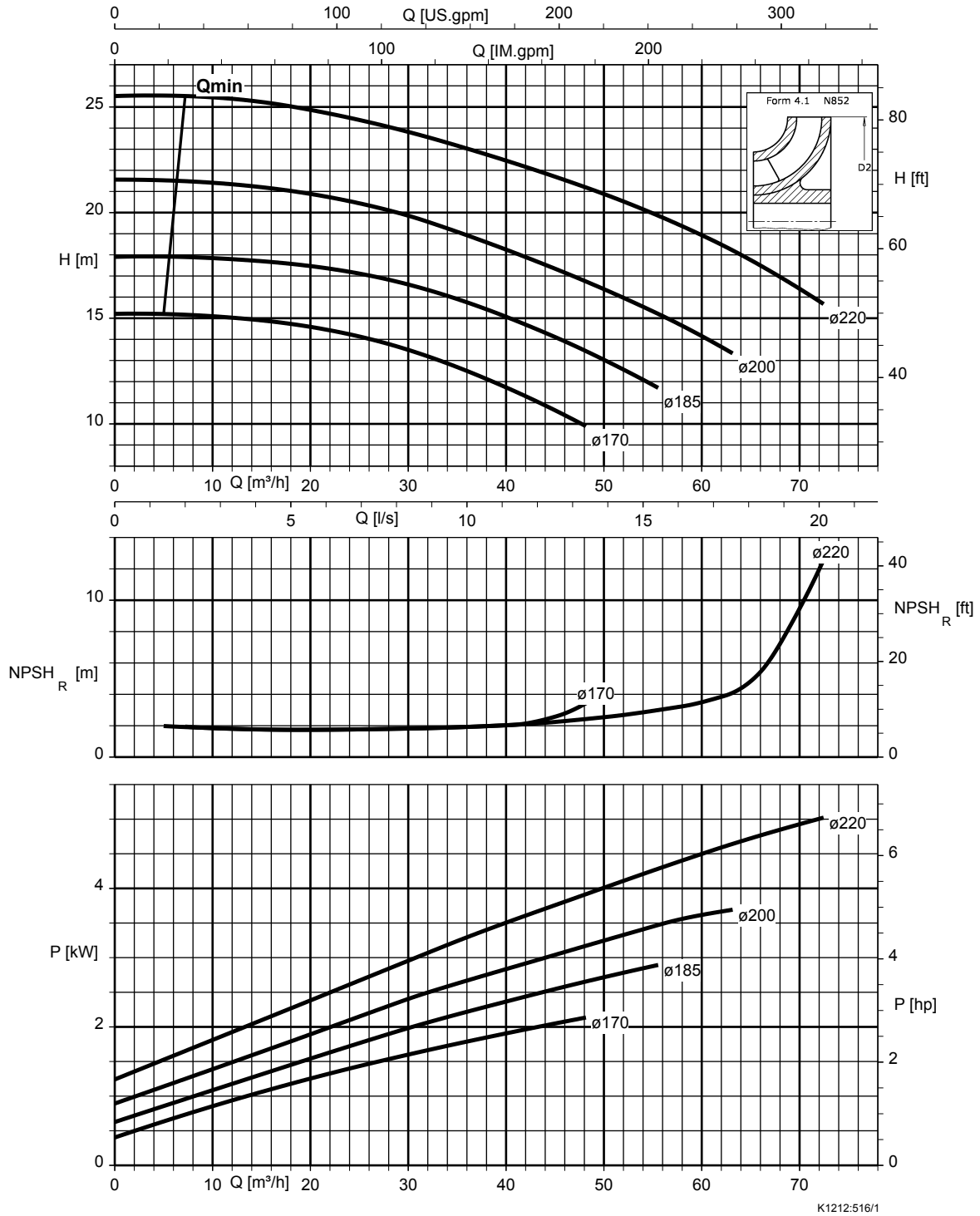
Etachrom L / Etachrom B, 065-050-125, n = 1750 rpm



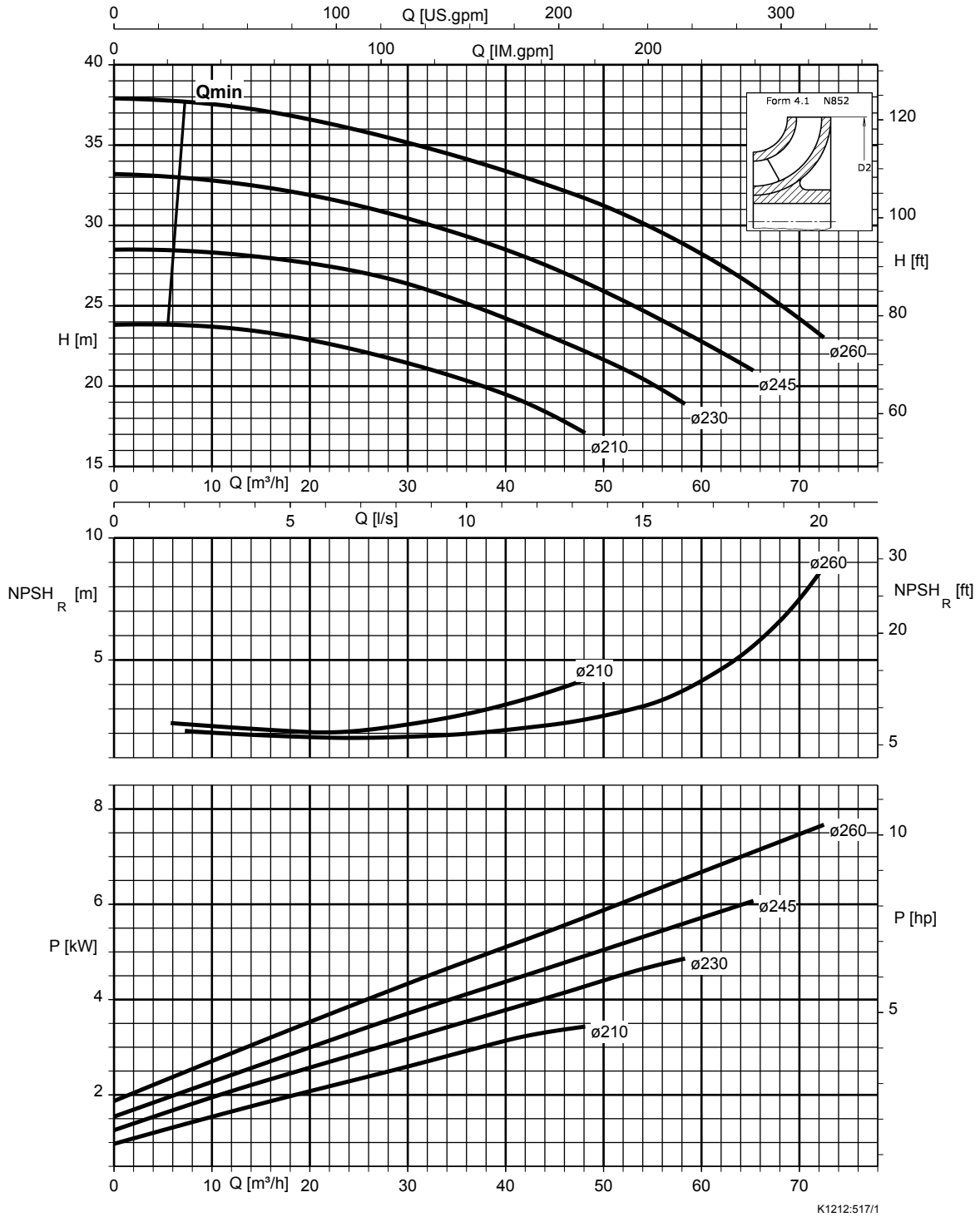
Etachrom L / Etachrom B, 065-050-160, n = 1750 rpm



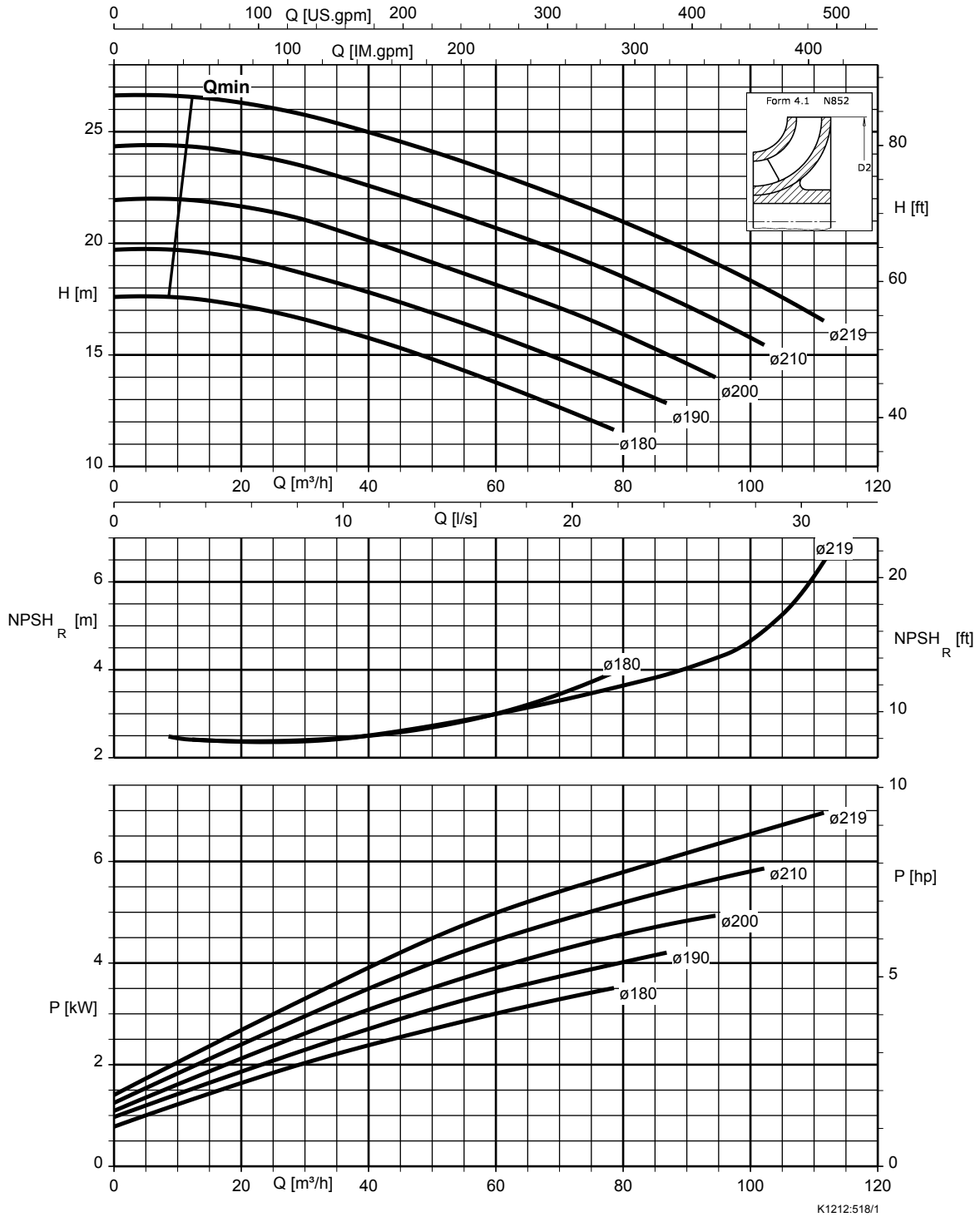
Etachrom L / Etachrom B, 065-050-200, n = 1750 rpm



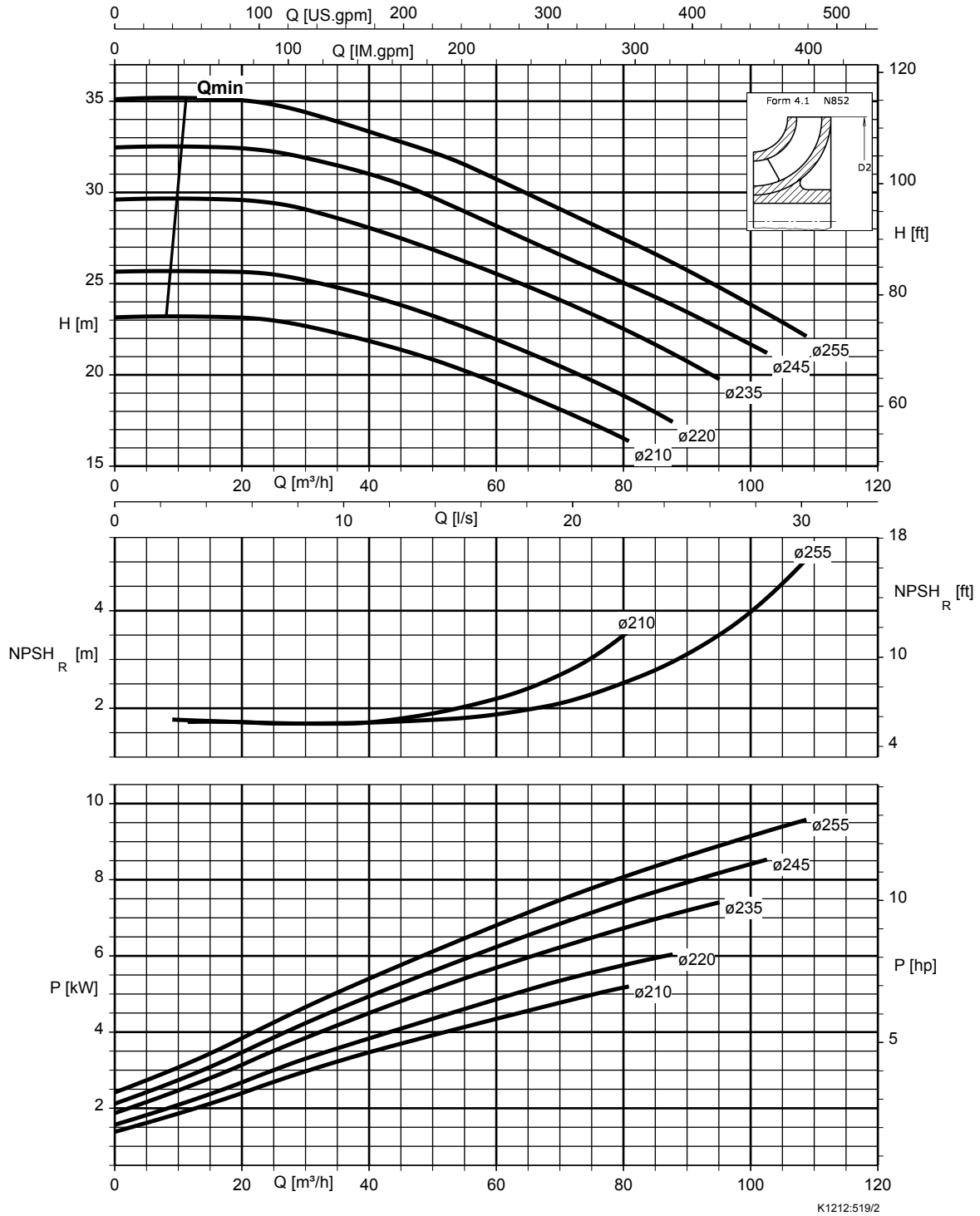
Etachrom L / Etachrom B, 065-050-250, n = 1750 rpm



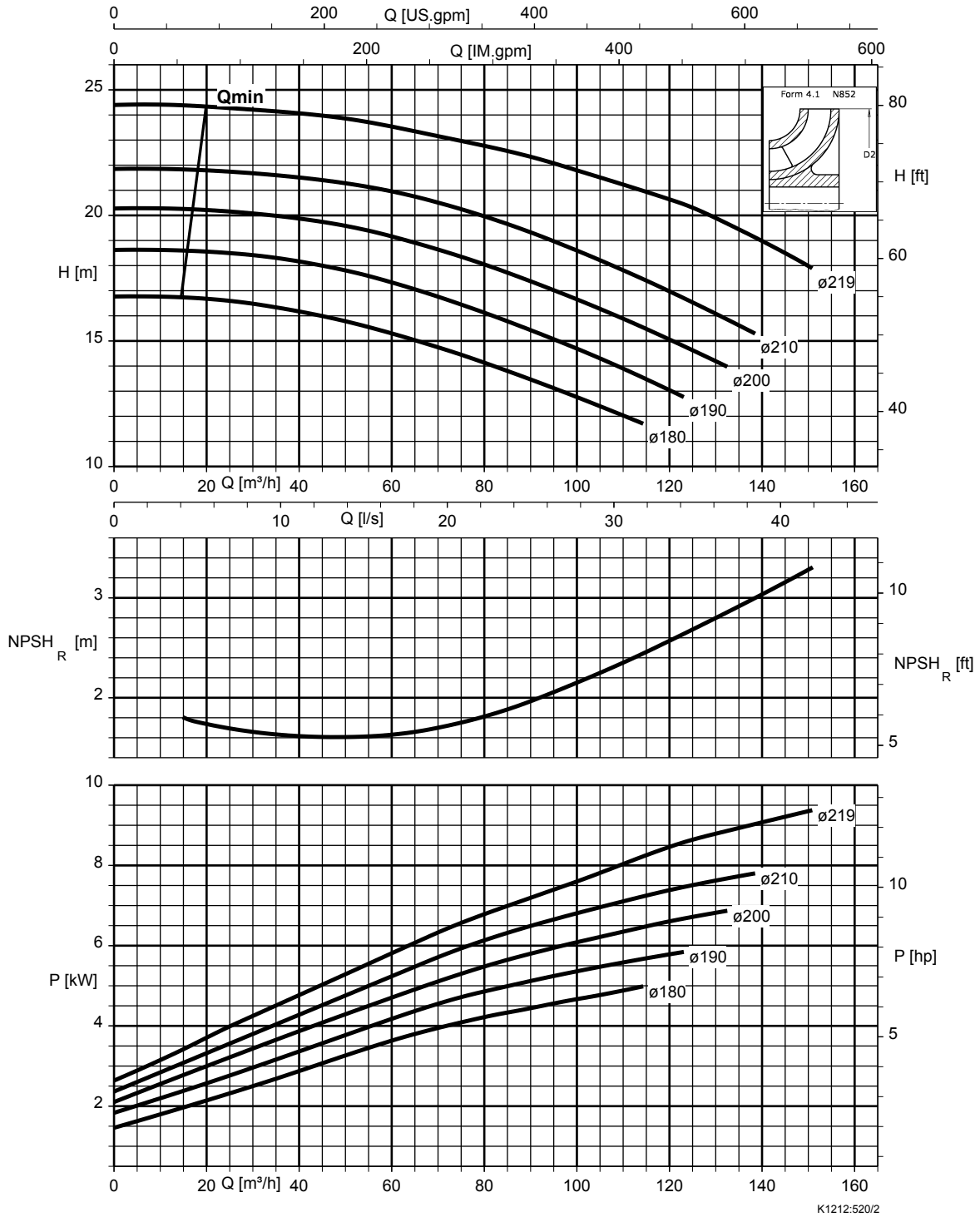
Etachrom L / Etachrom B, 080-065-200, n = 1750 rpm



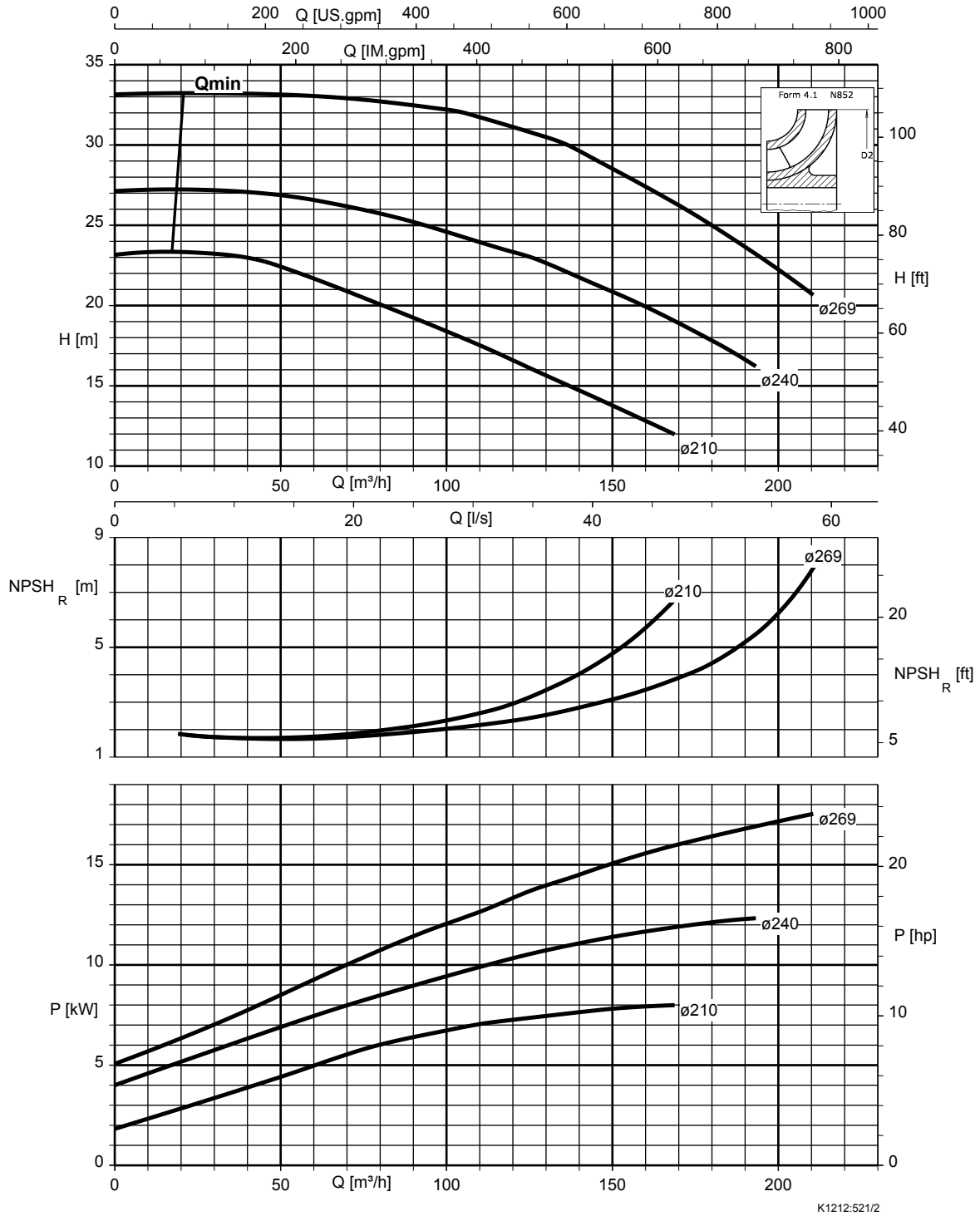
Etachrom L / Etachrom B, 080-065-250, n = 1750 rpm



Etachrom L / Etachrom B, 100-080-200, n = 1750 rpm



Etachrom L / Etachrom B, 100-080-250, n = 1750 rpm





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