

In-line Twin Pump

Etaline Z

With Speed Control

Characteristic Curves Booklet



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Characteristic Curves Booklet Etaline Z

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Heating / Air-conditioning / Ventilation

In-line Pumps with Variable Speed System

Etaline Z



i The product illustrated as an example may include options incurring a surcharge.

General

Test class

Characteristic curves to ISO 9906 Class 3B

NPSH values

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

NPSH values in part-load 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 part-load 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 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.

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.

Speed

Speed curves are documented up to the maximum speed. The motor power required for the operating range must therefore always be checked against the pump/motor combinations table in the relevant type series booklet. The maximum speeds depend on the impeller/shaft material combination and the limit speeds of the PumpDrive variable speed system.

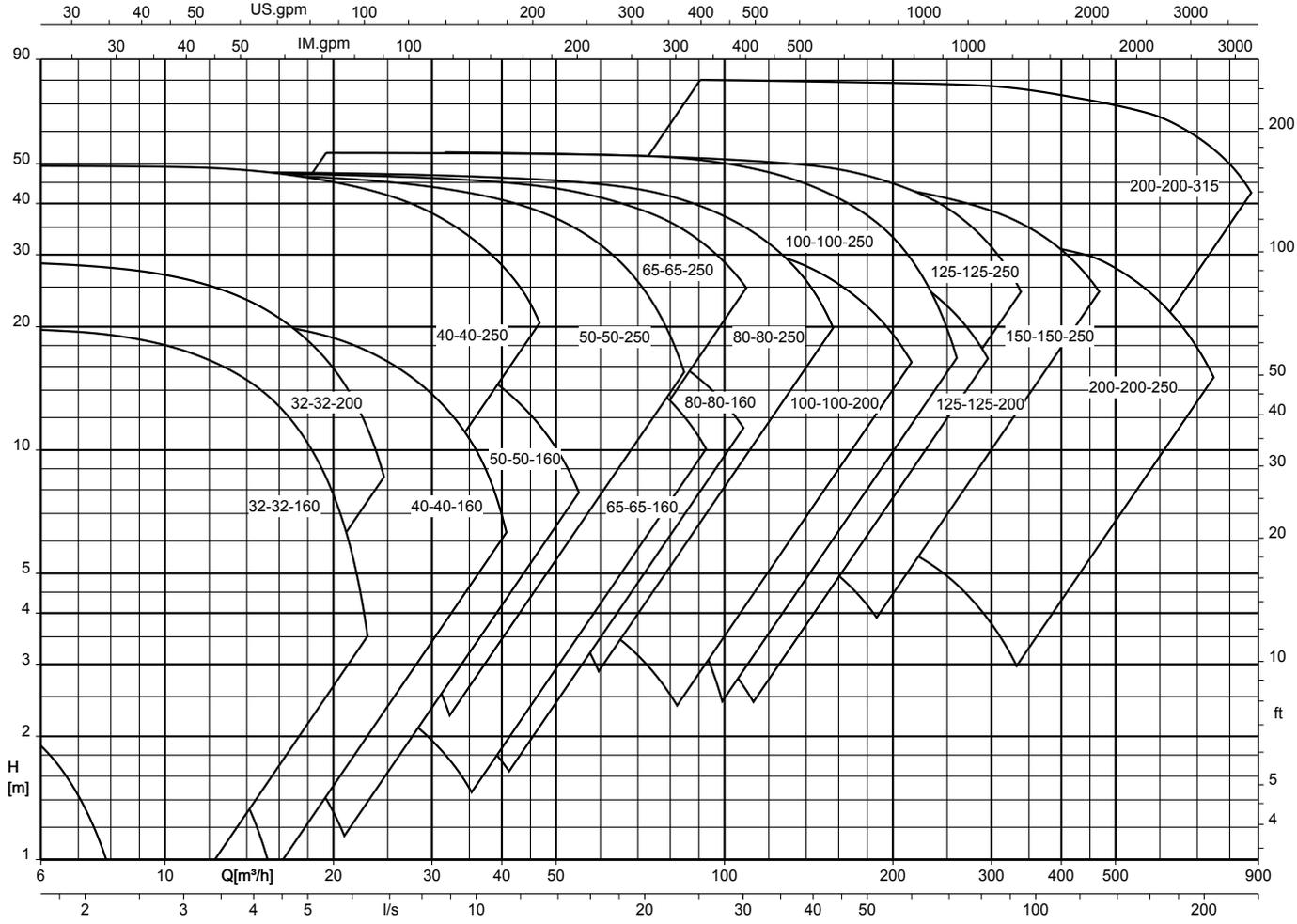
Overview of sizes

Overview of sizes

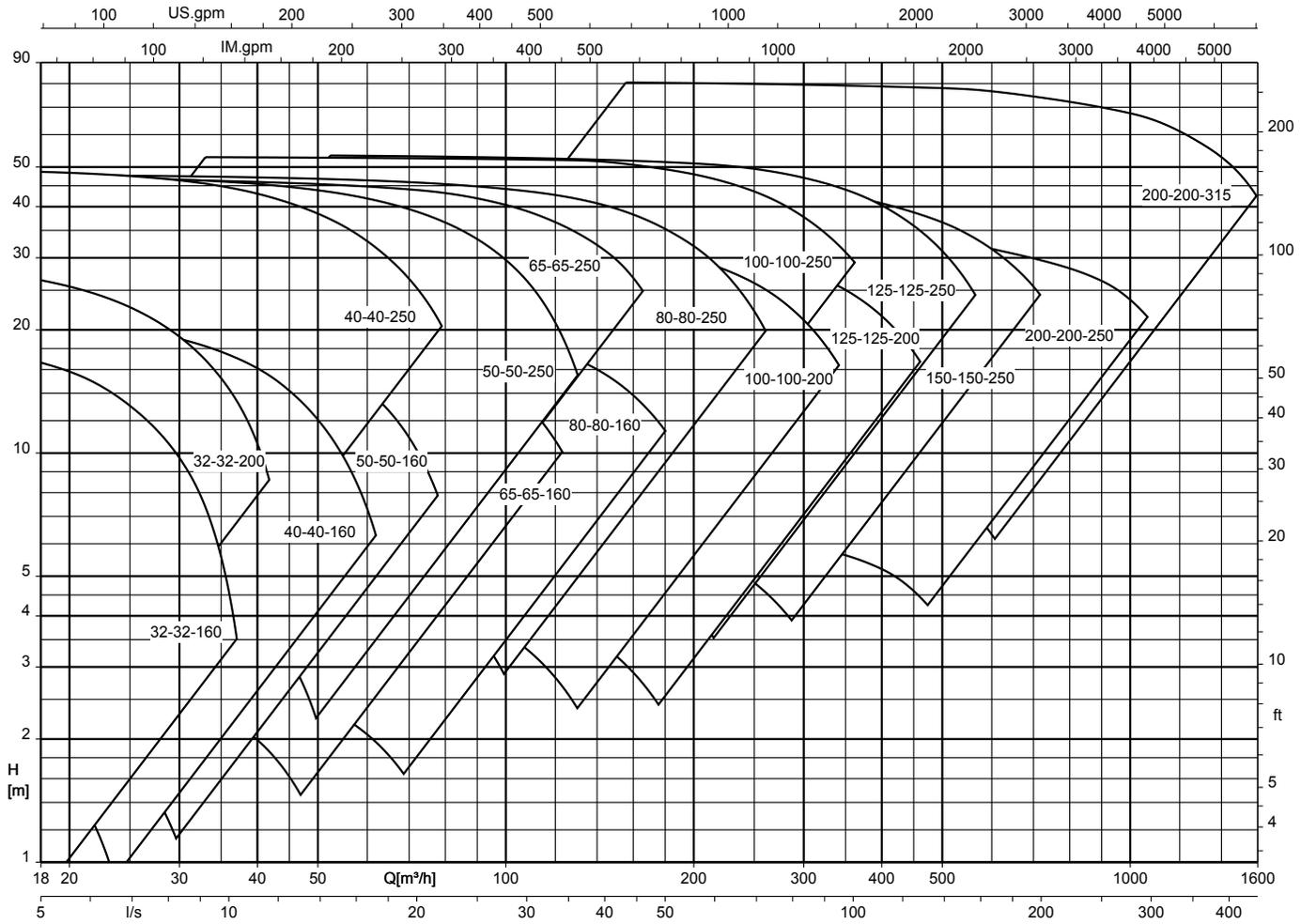
| Etaline | Speed range | |
|-------------|-----------------------|--------------------|
| | Single-pump operation | Parallel operation |
| 032-032-160 | (⇒ Page 8) | (⇒ Page 25) |
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Selection charts

Etaline Z, single-pump operation

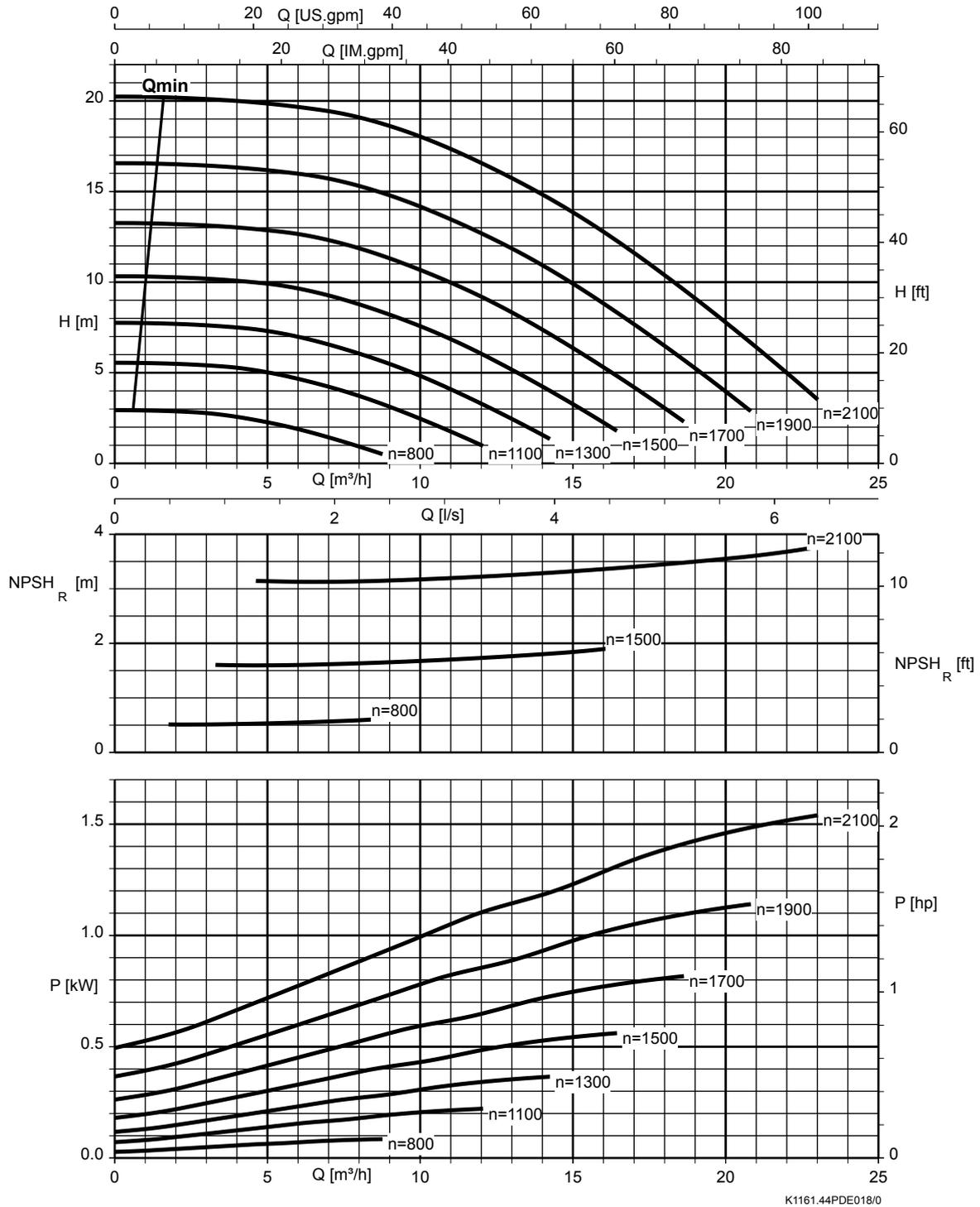


Etaline Z, parallel operation



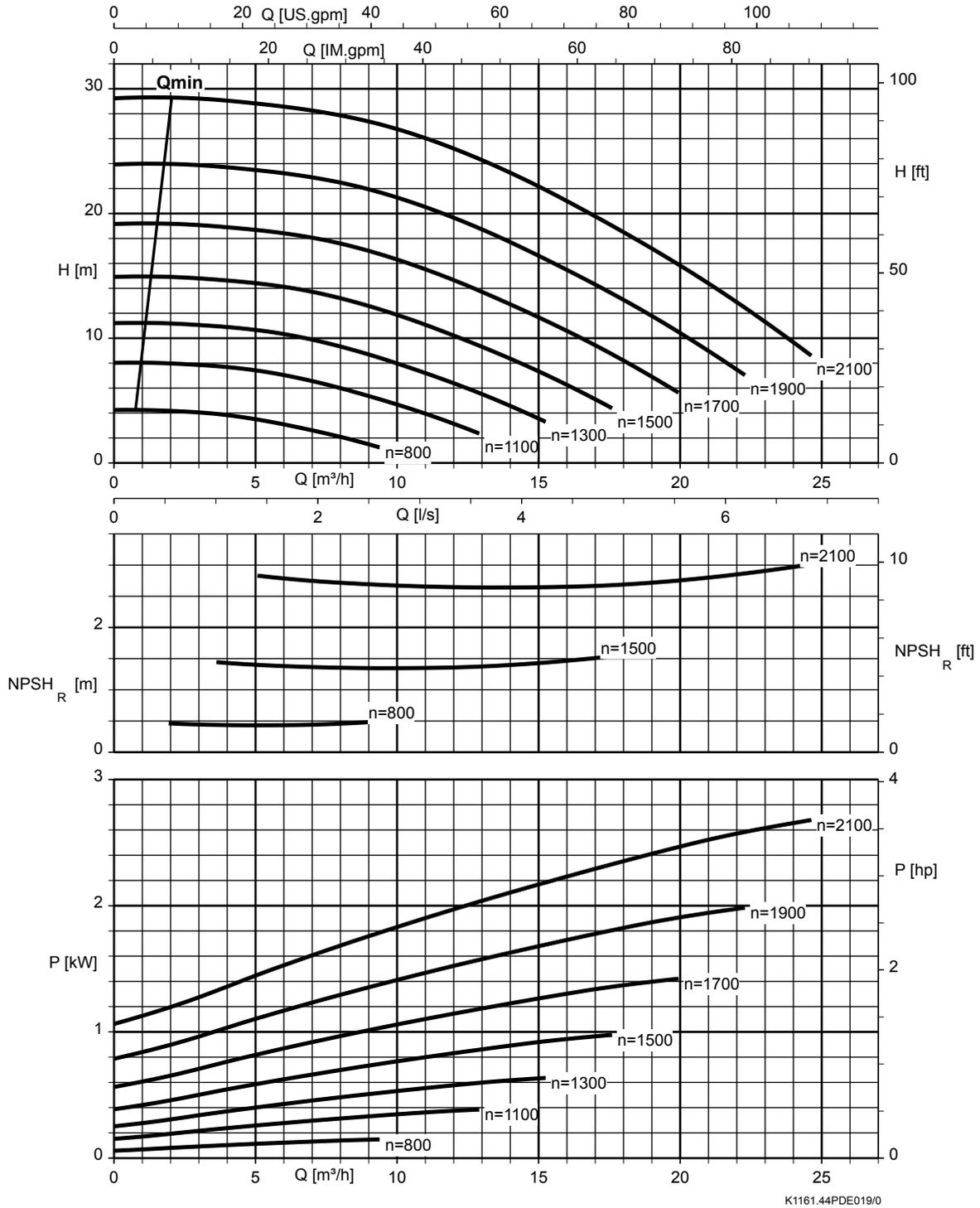
Characteristic curves

Etaline Z 032-032-160, single-pump operation

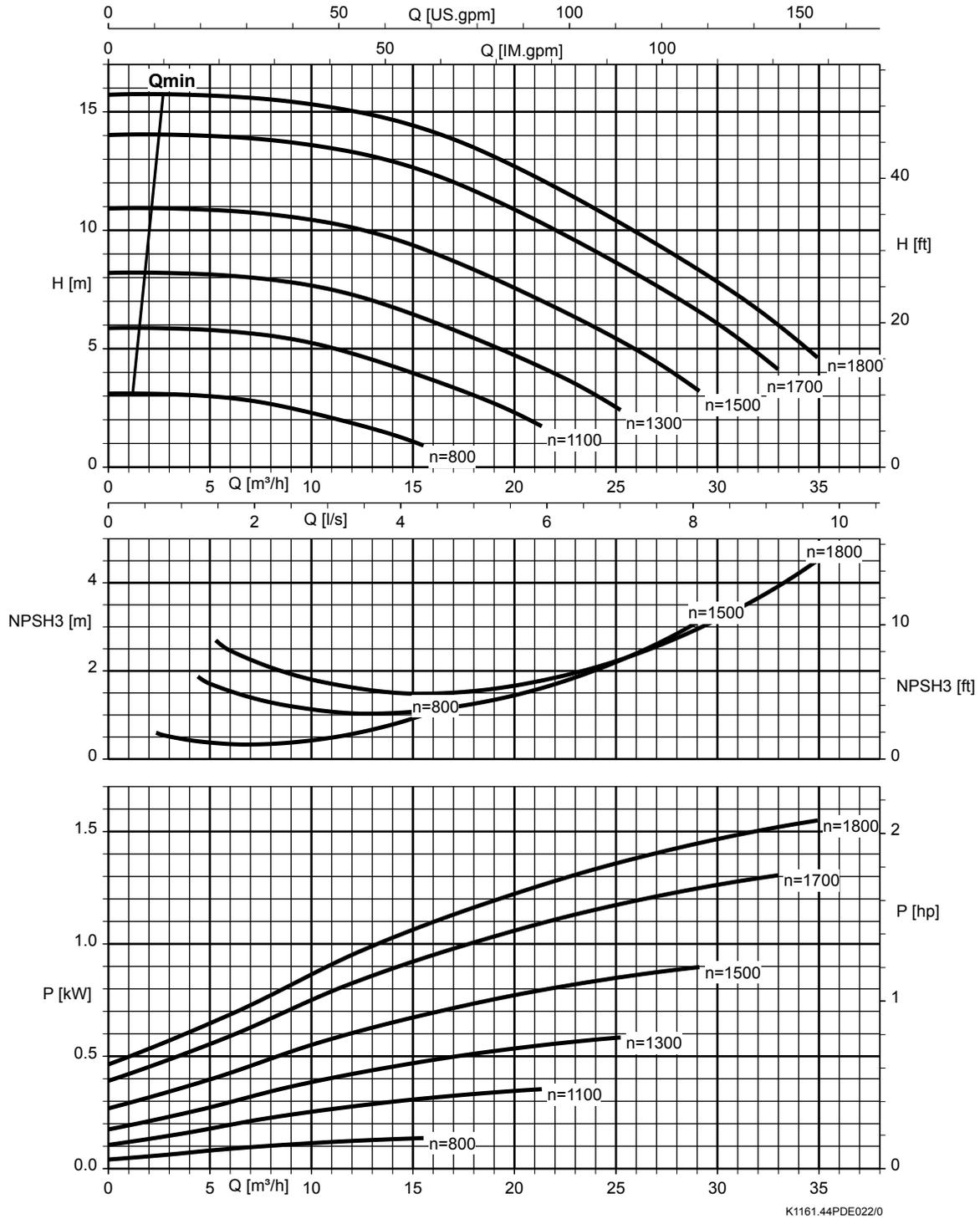


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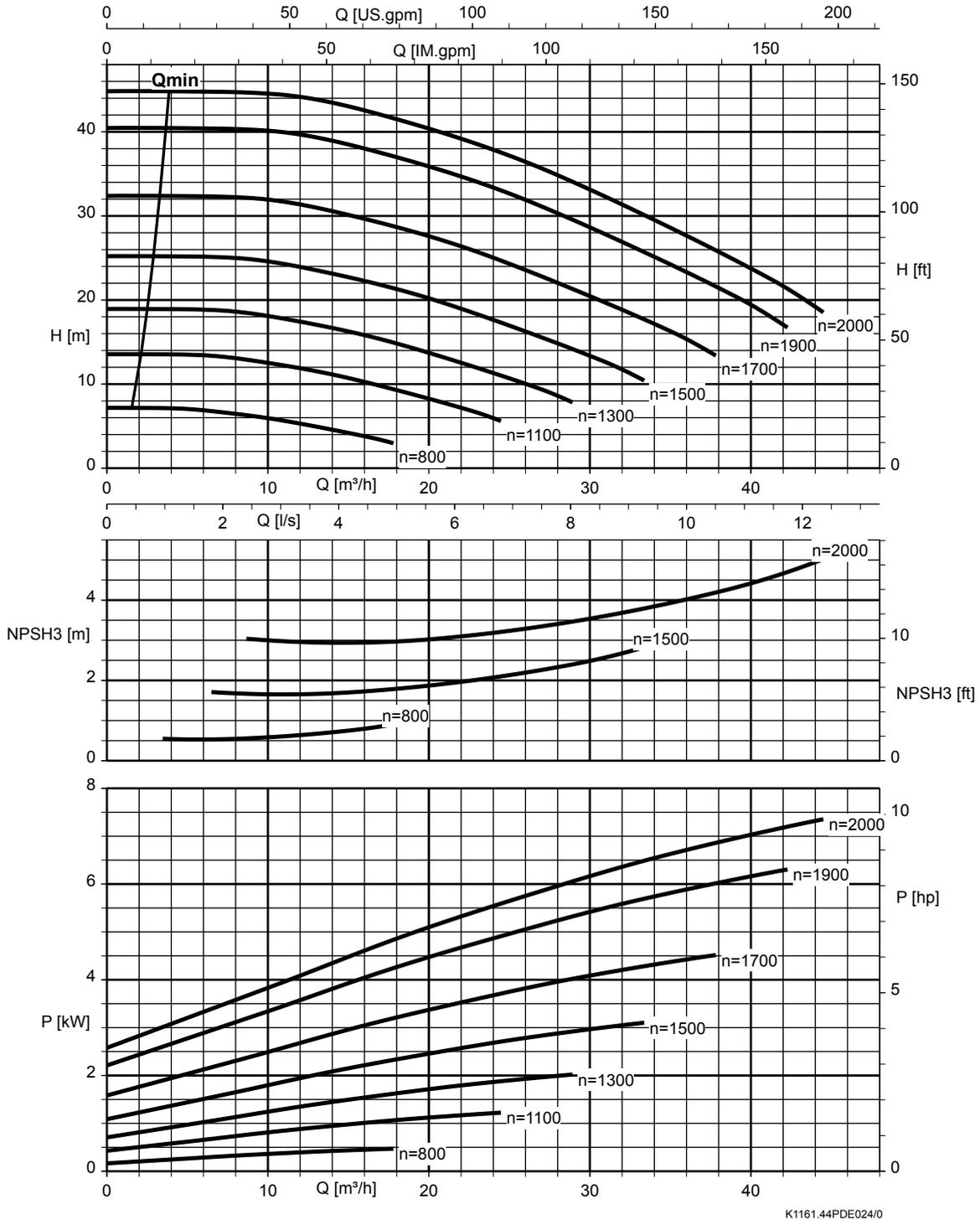
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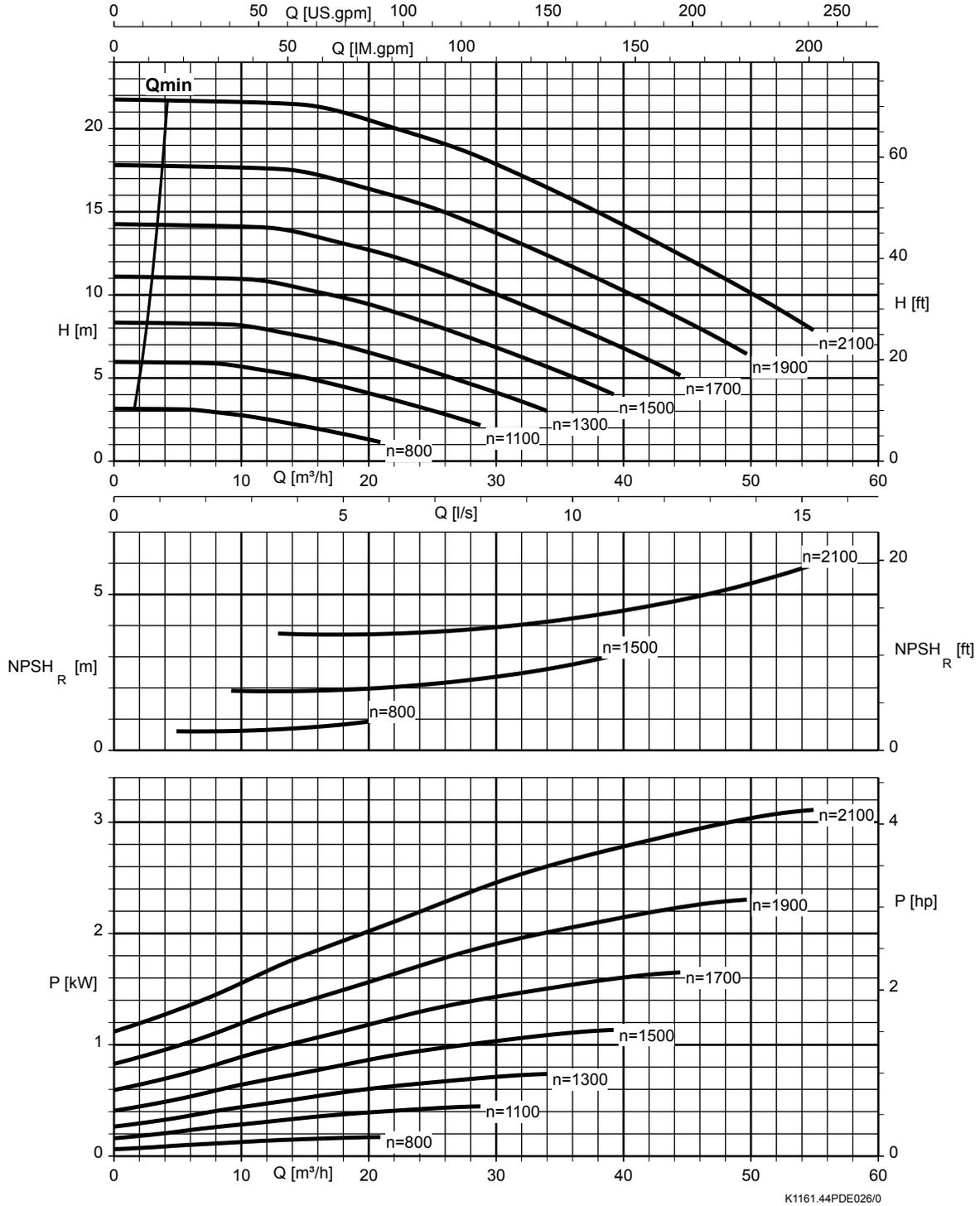
Etaline Z 040-040-160, single-pump operation



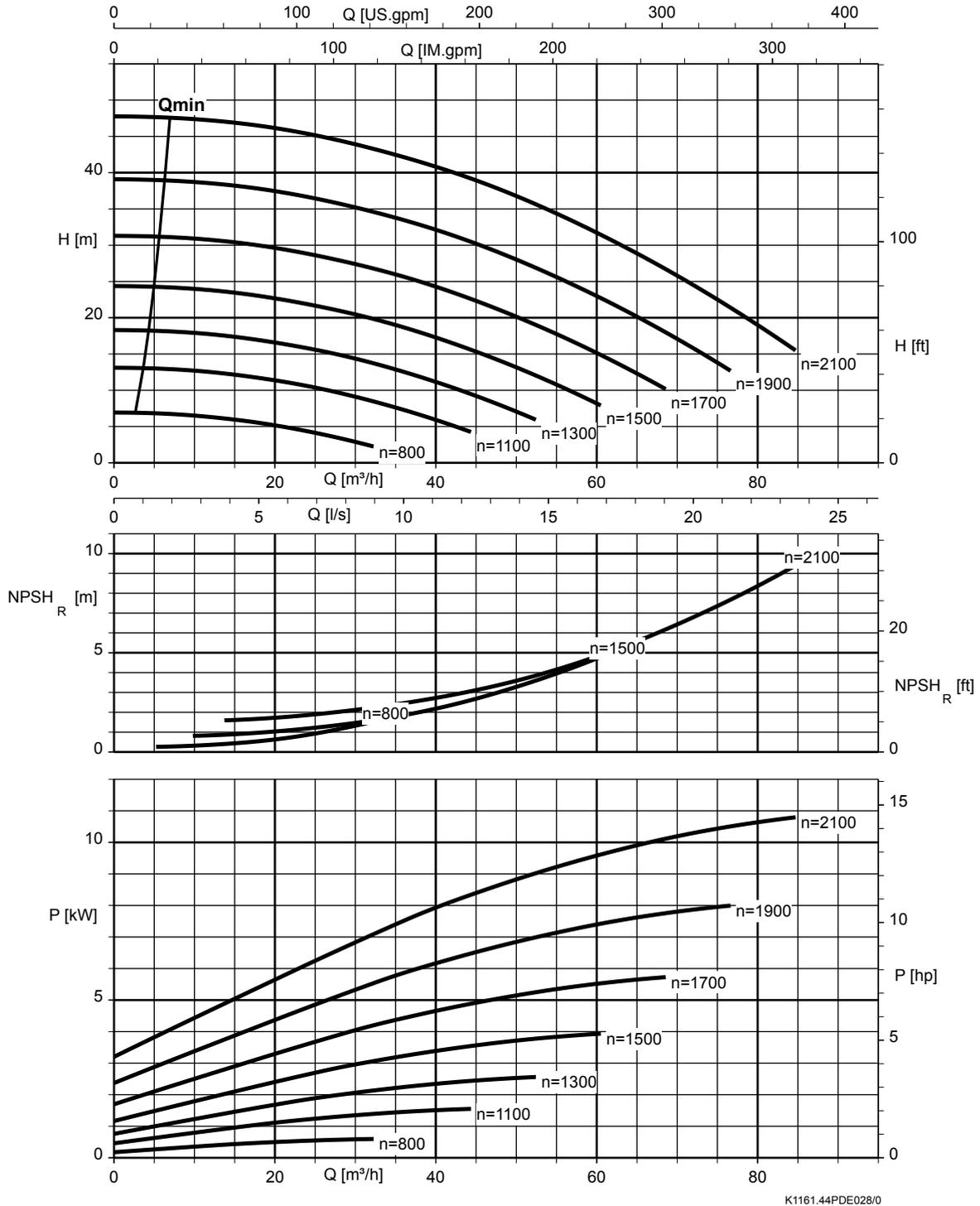
Etaline Z 040-040-250, single-pump operation



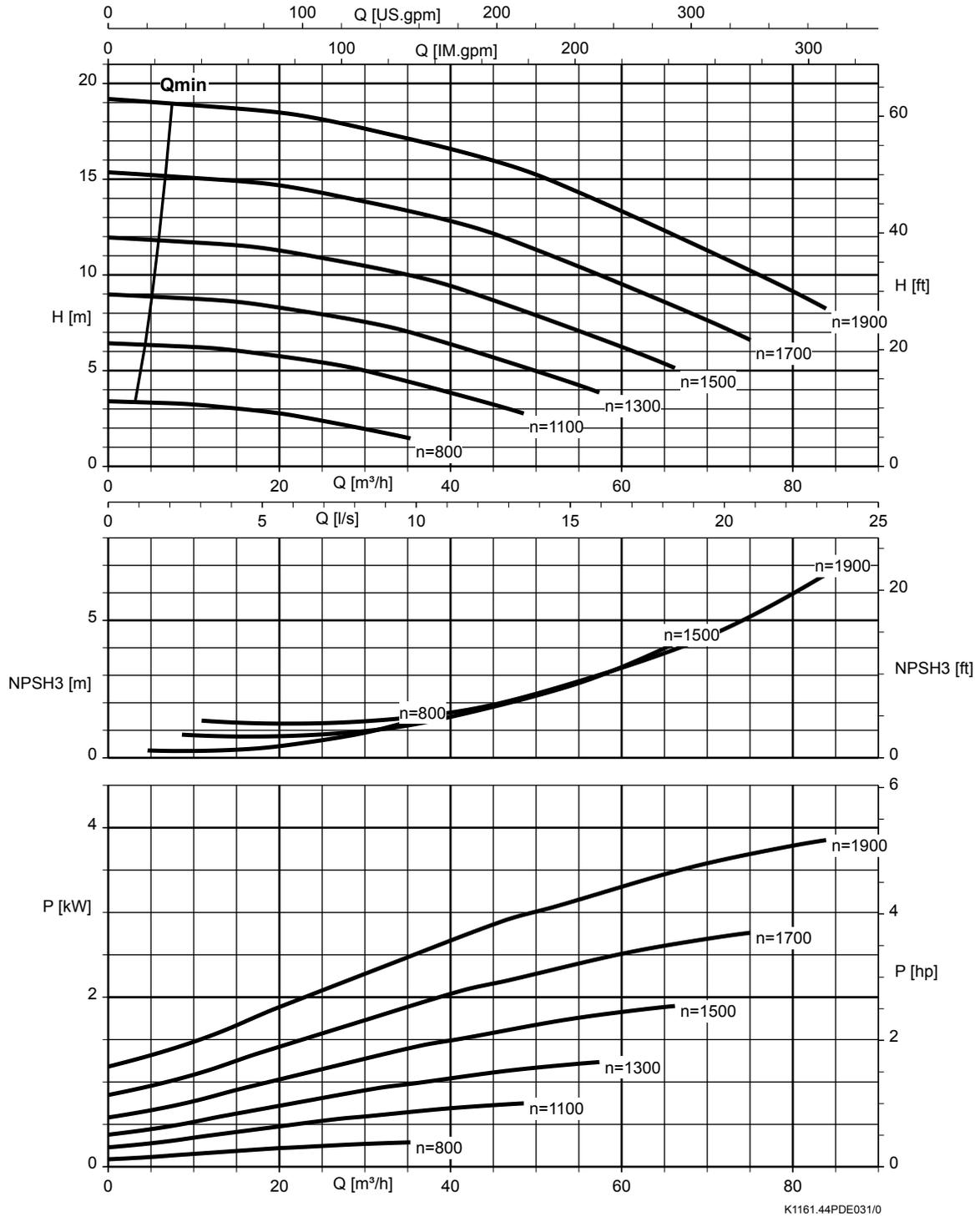
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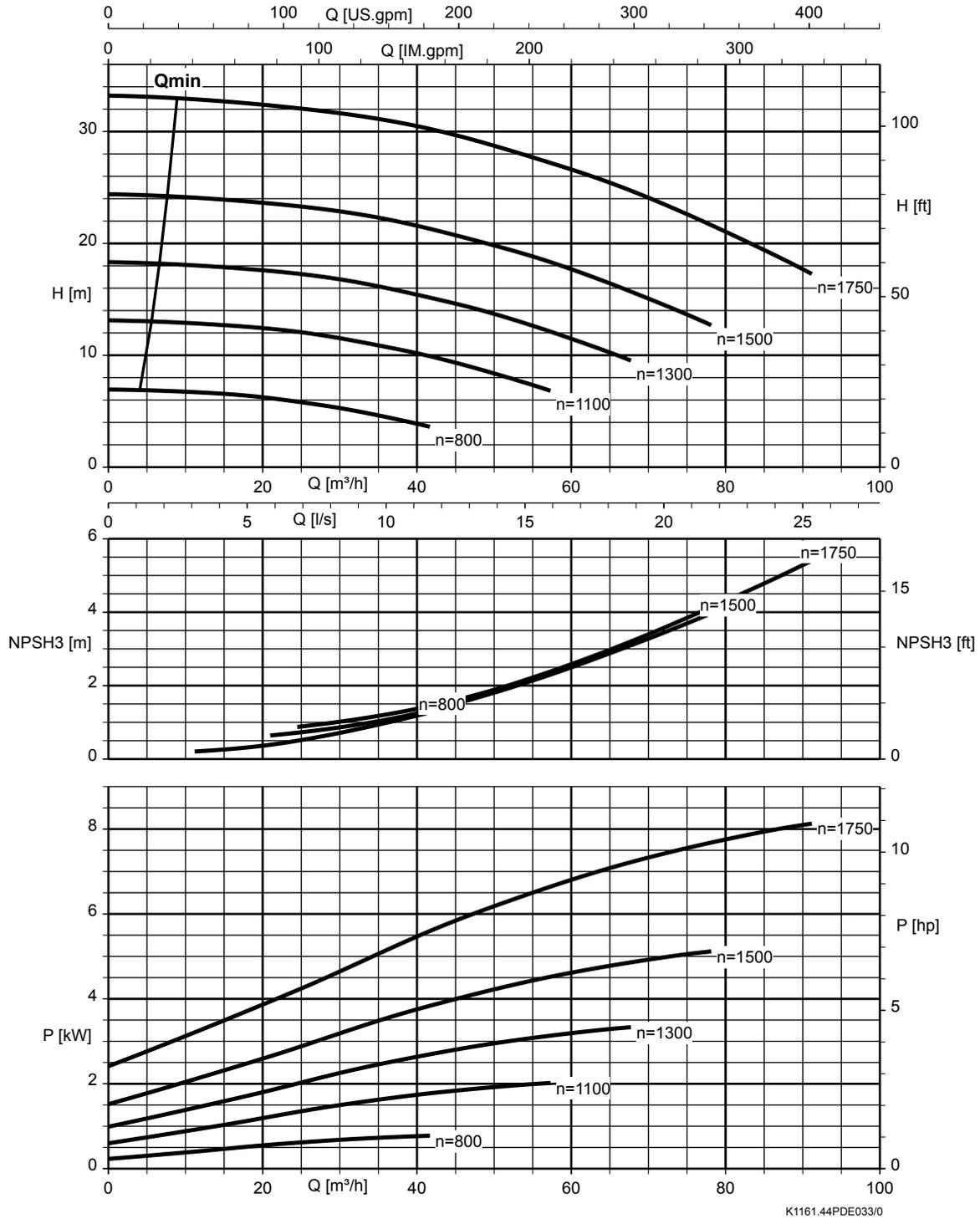
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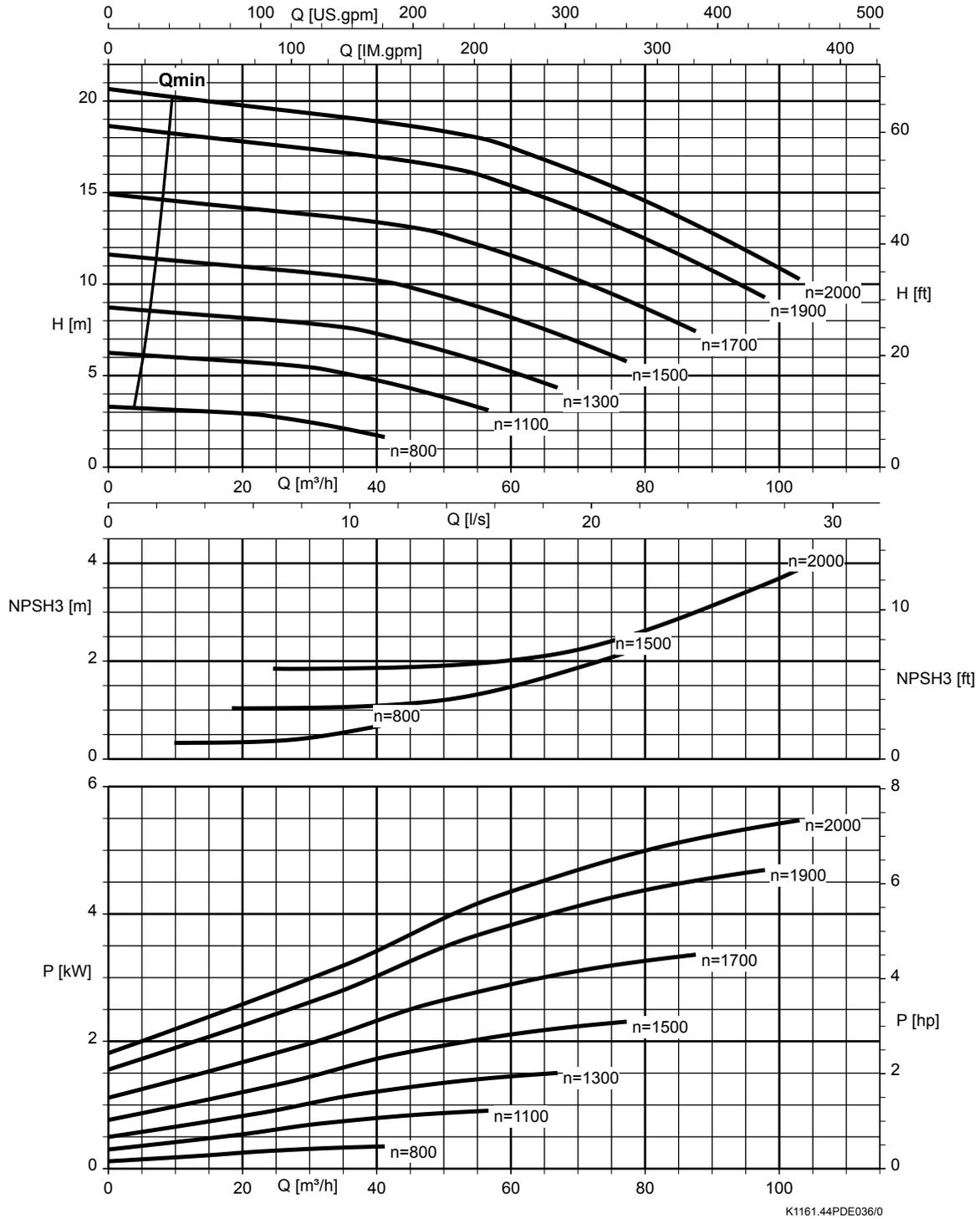
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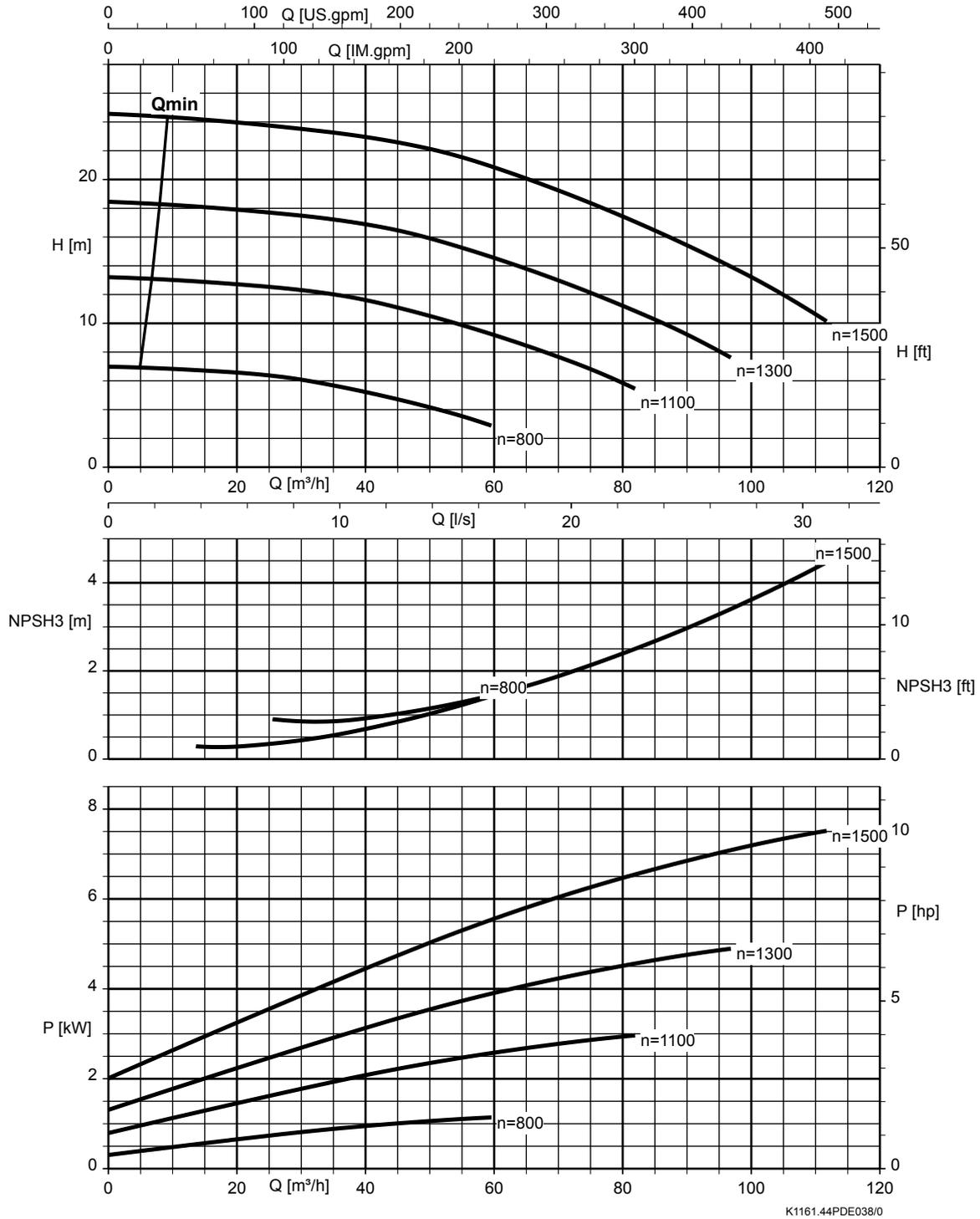
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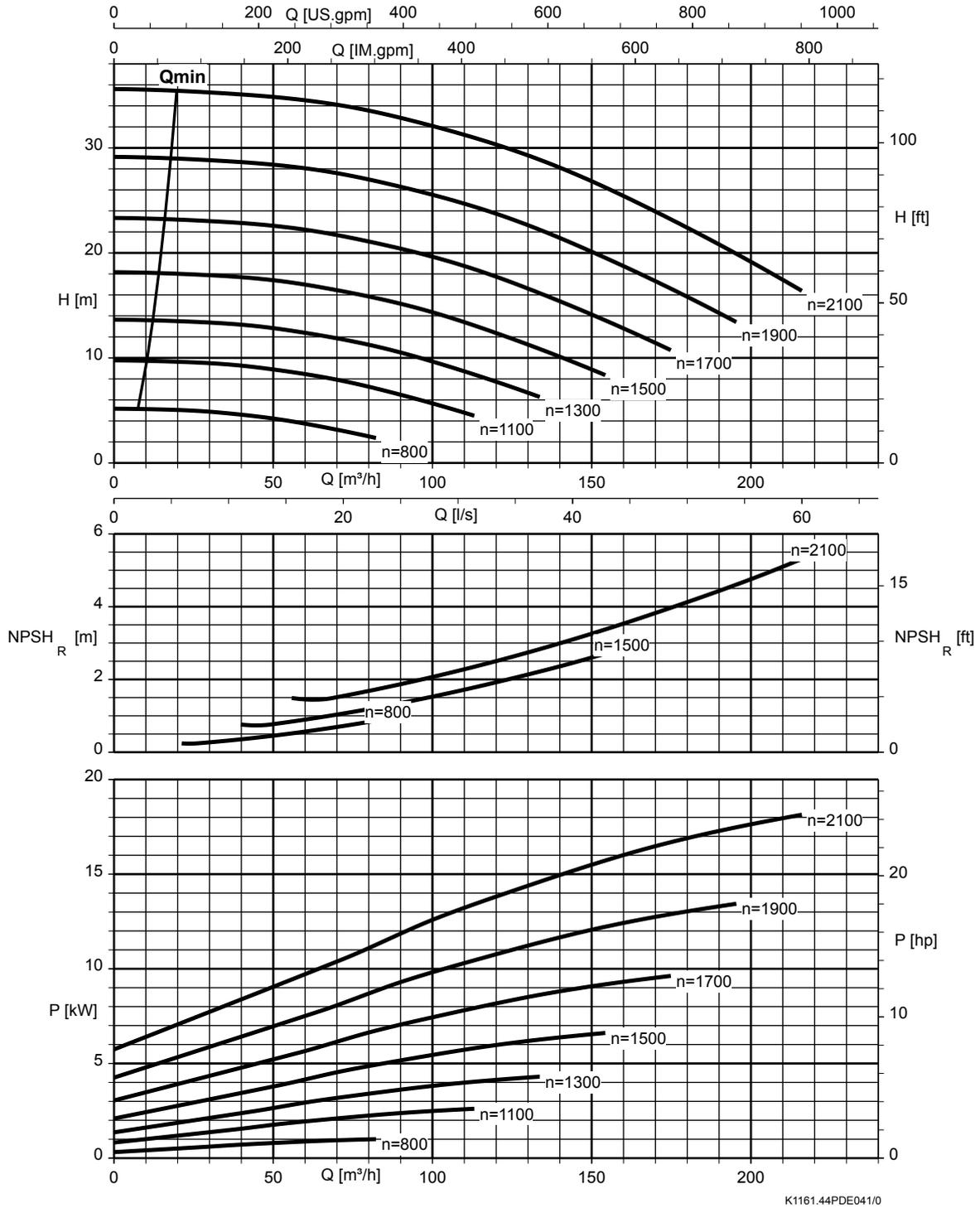
Etaline Z 080-080-160, single-pump operation



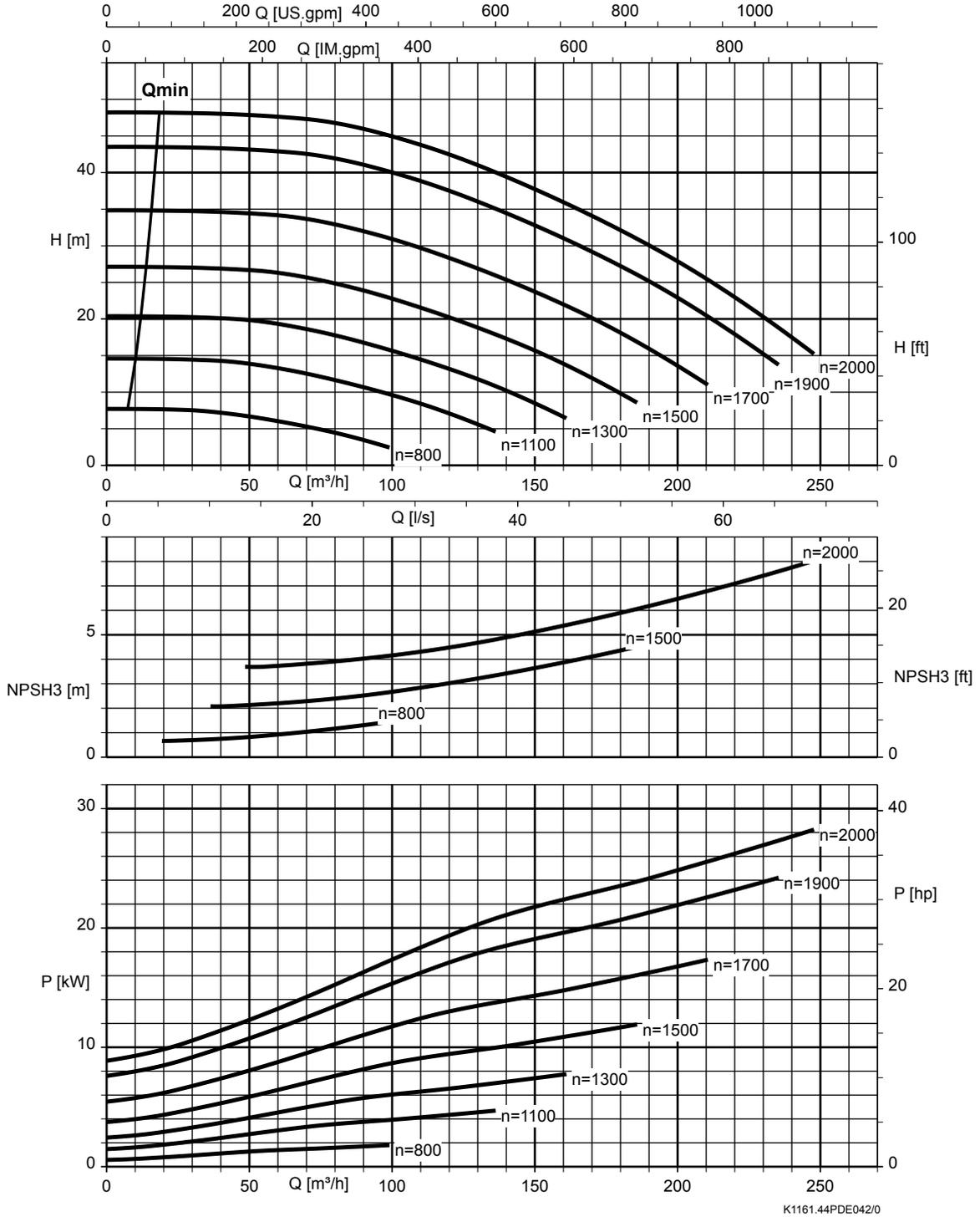
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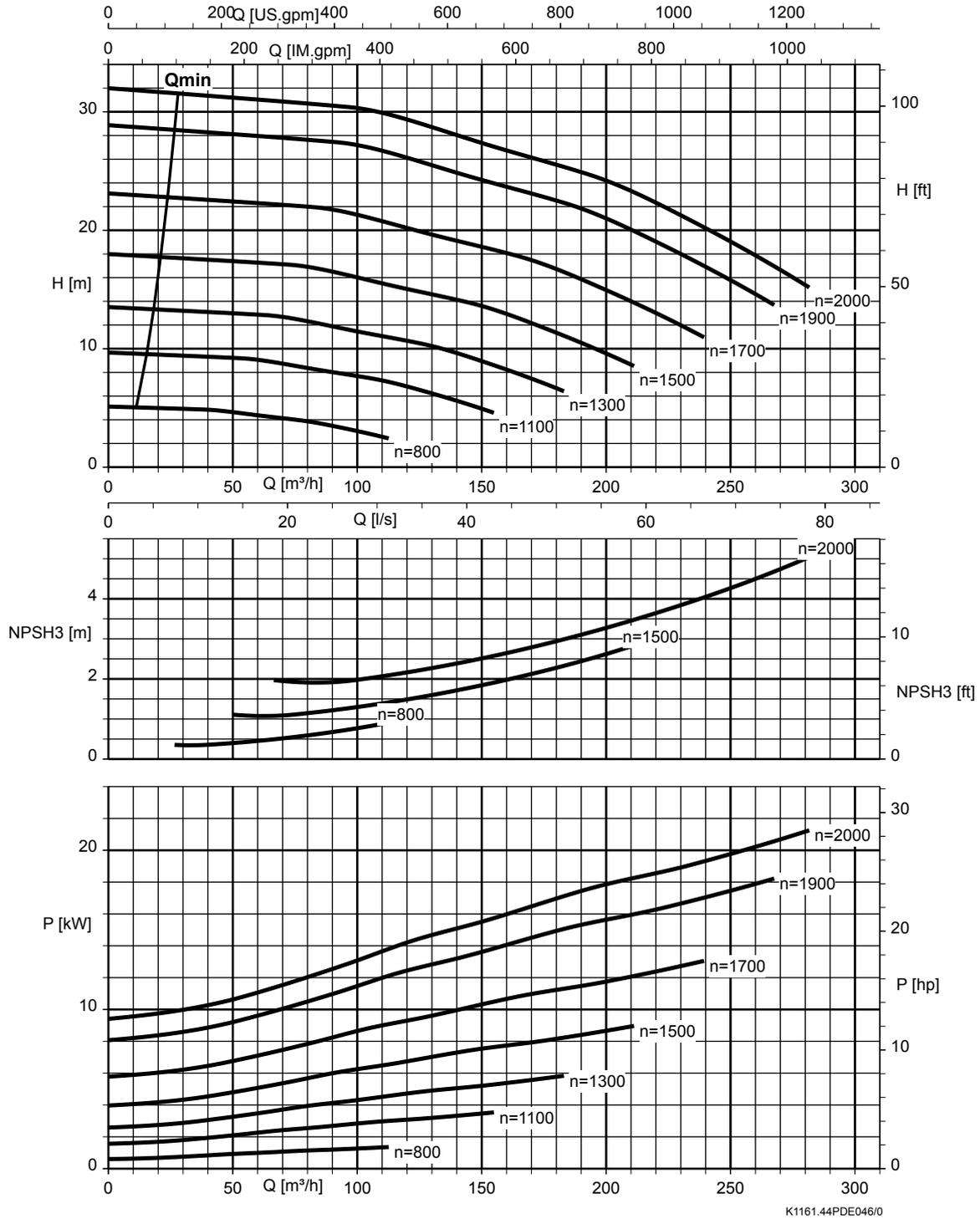
Etaline Z 100-100-200, single-pump operation



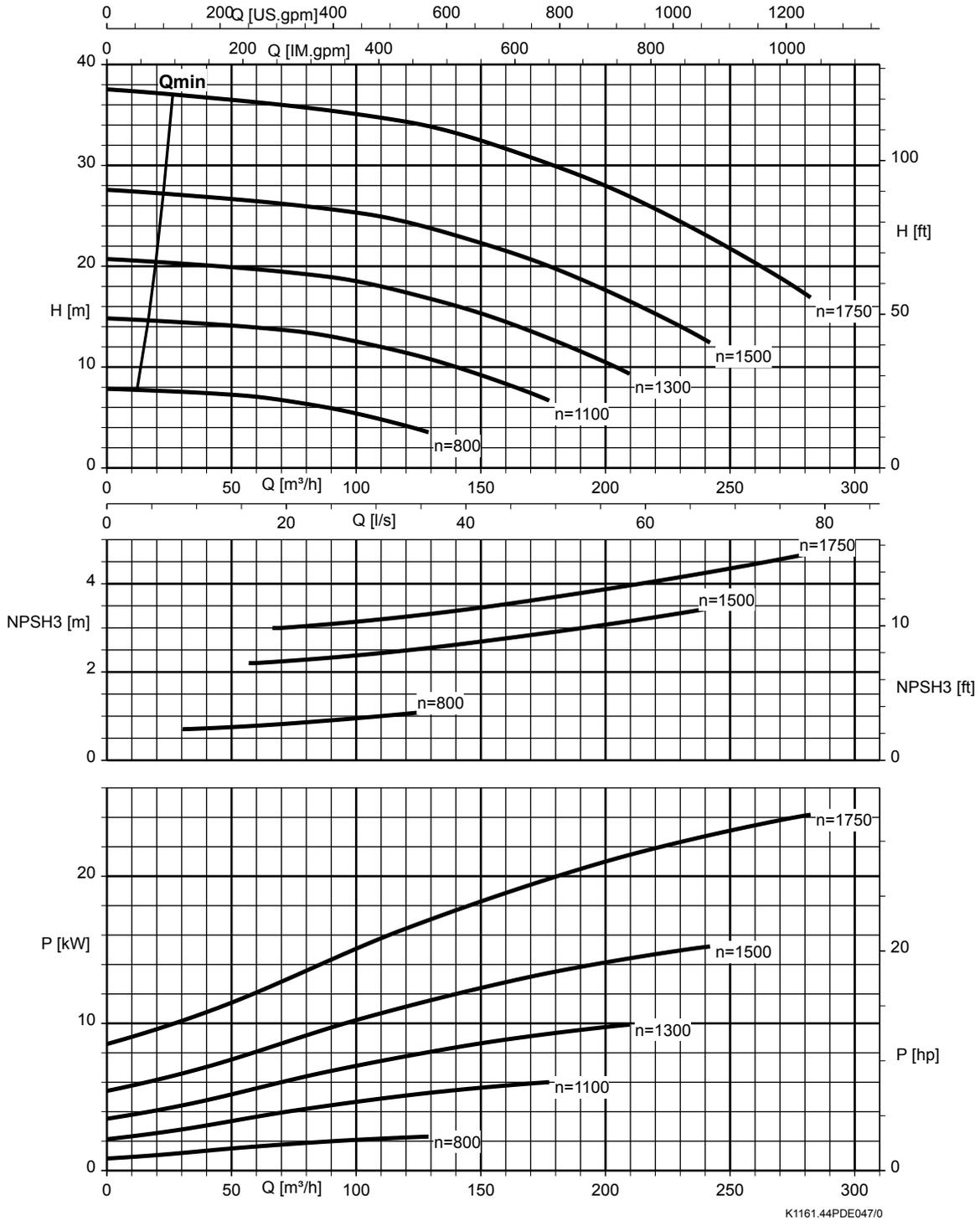
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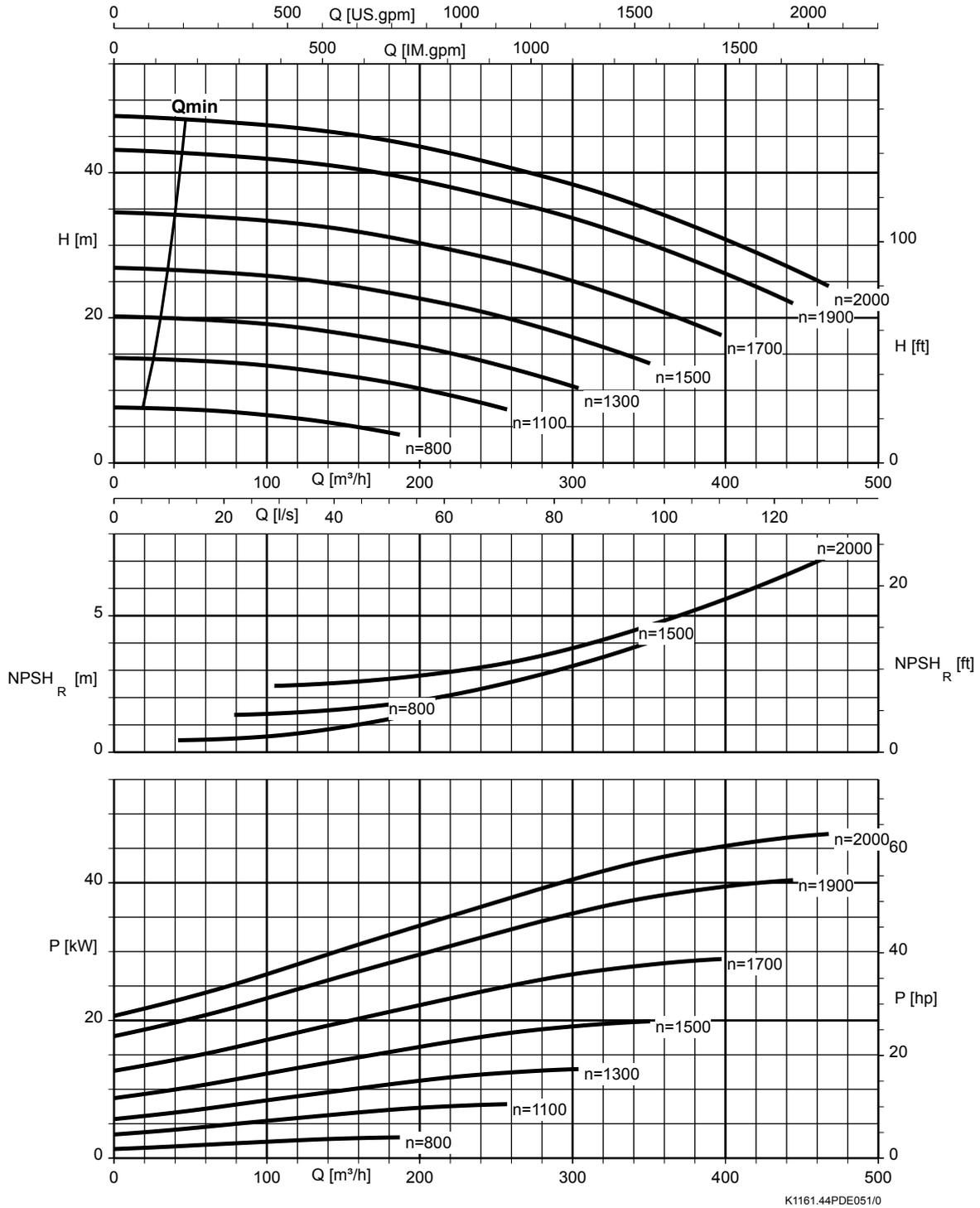
Etaline Z 125-125-200, single-pump operation



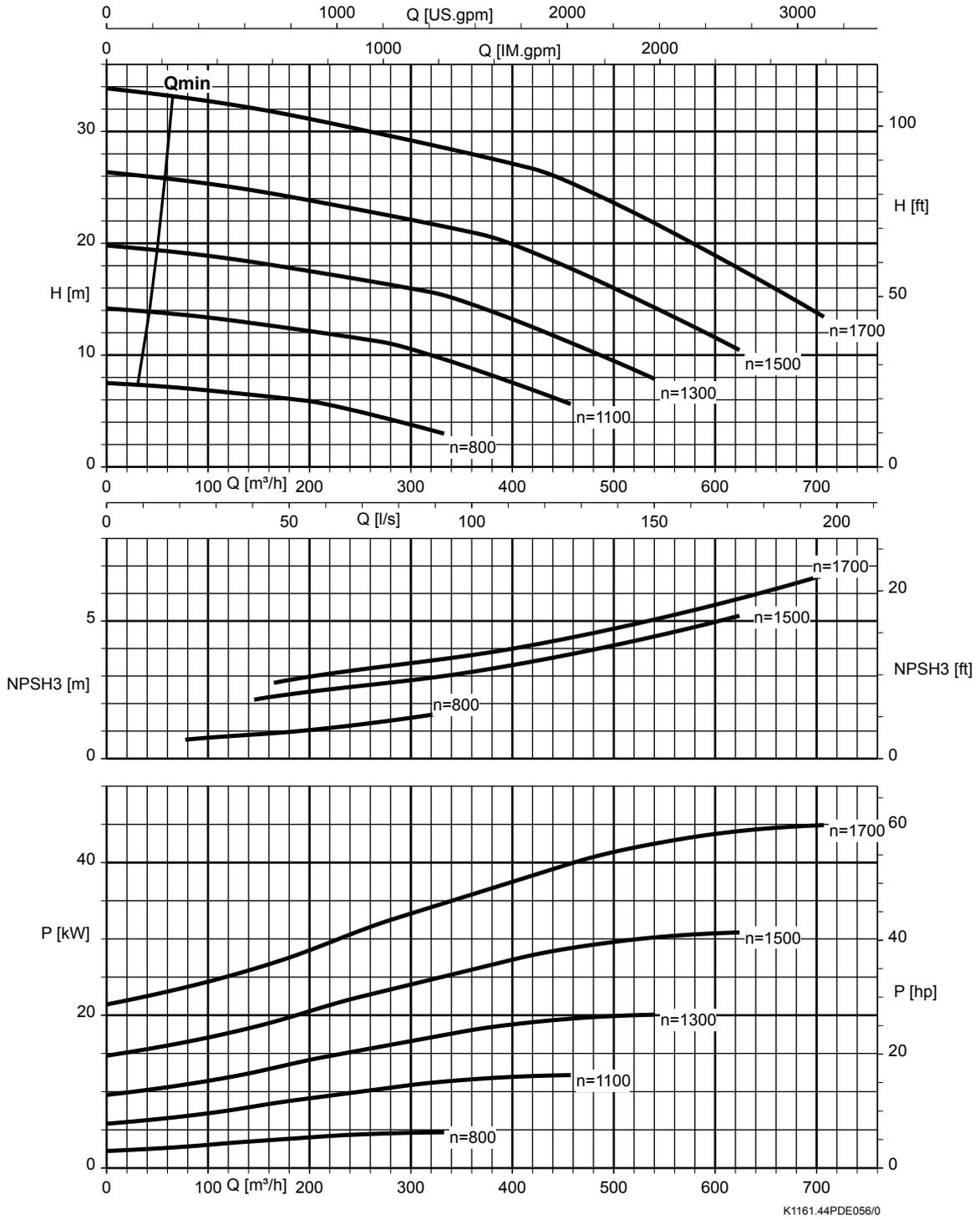
Etaline Z 125-125-250, single-pump operation



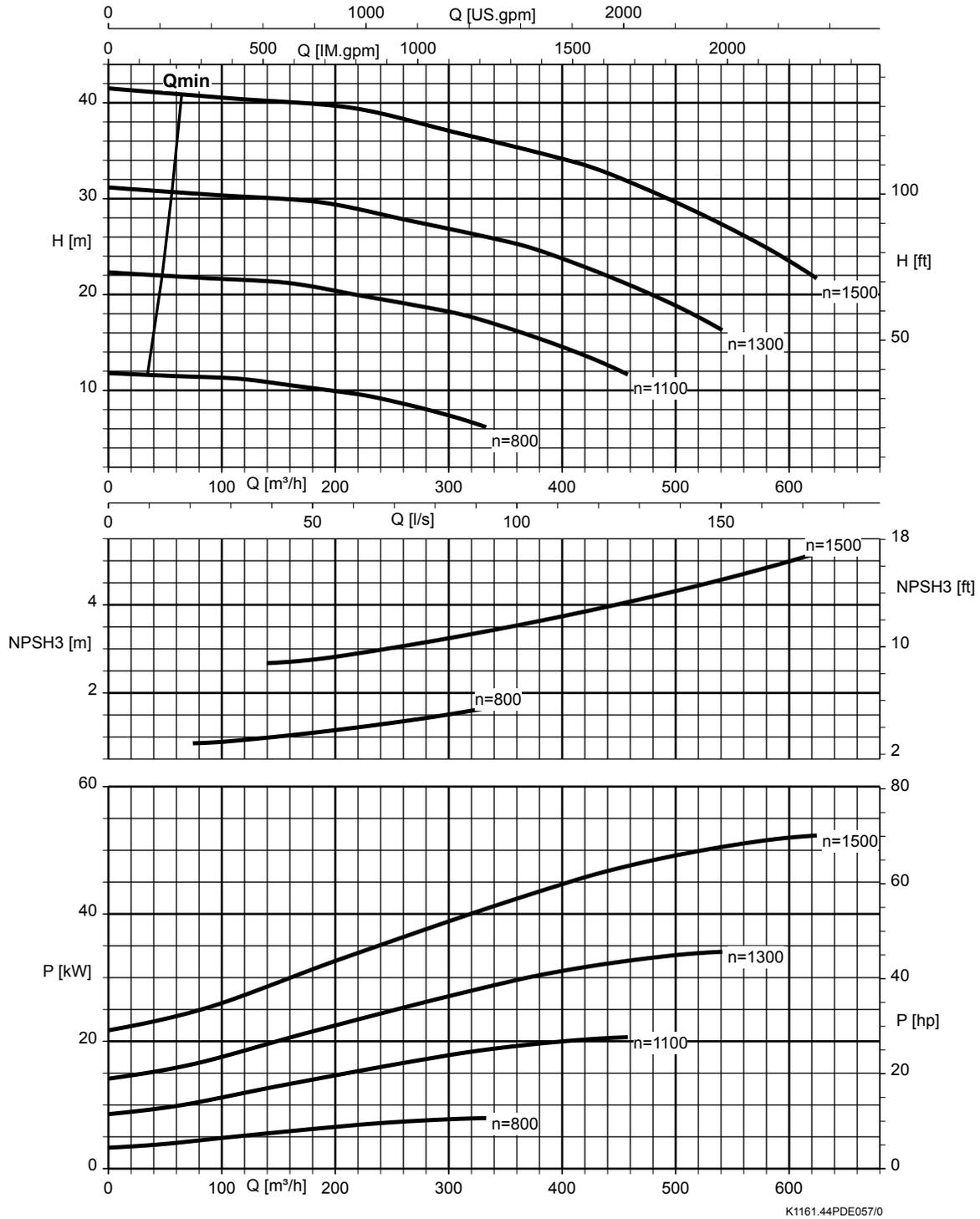
Etaline Z 150-150-250, single-pump operation



Etaline Z 200-200-250, single-pump operation

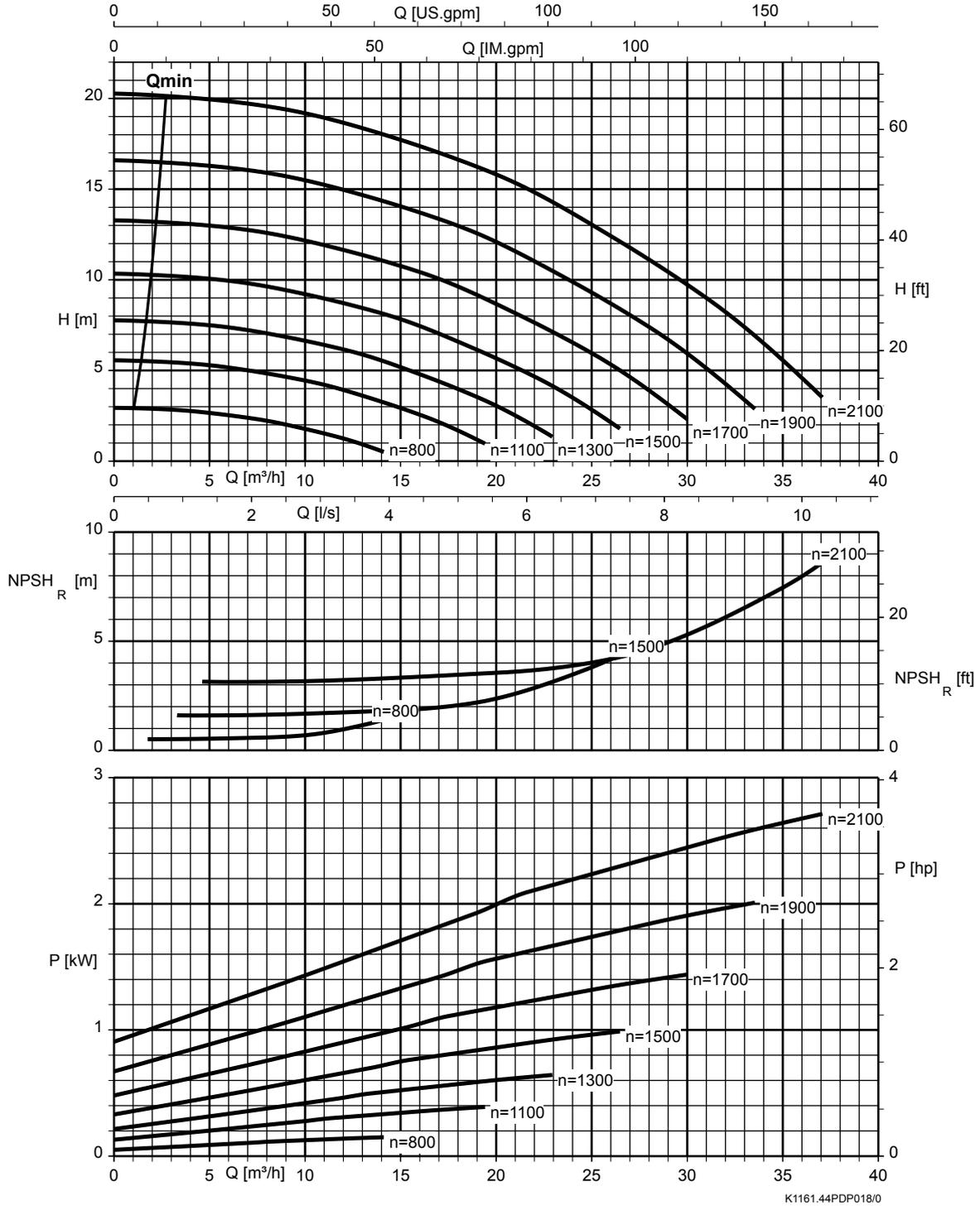


Etaline Z 200-200-315, single-pump operation

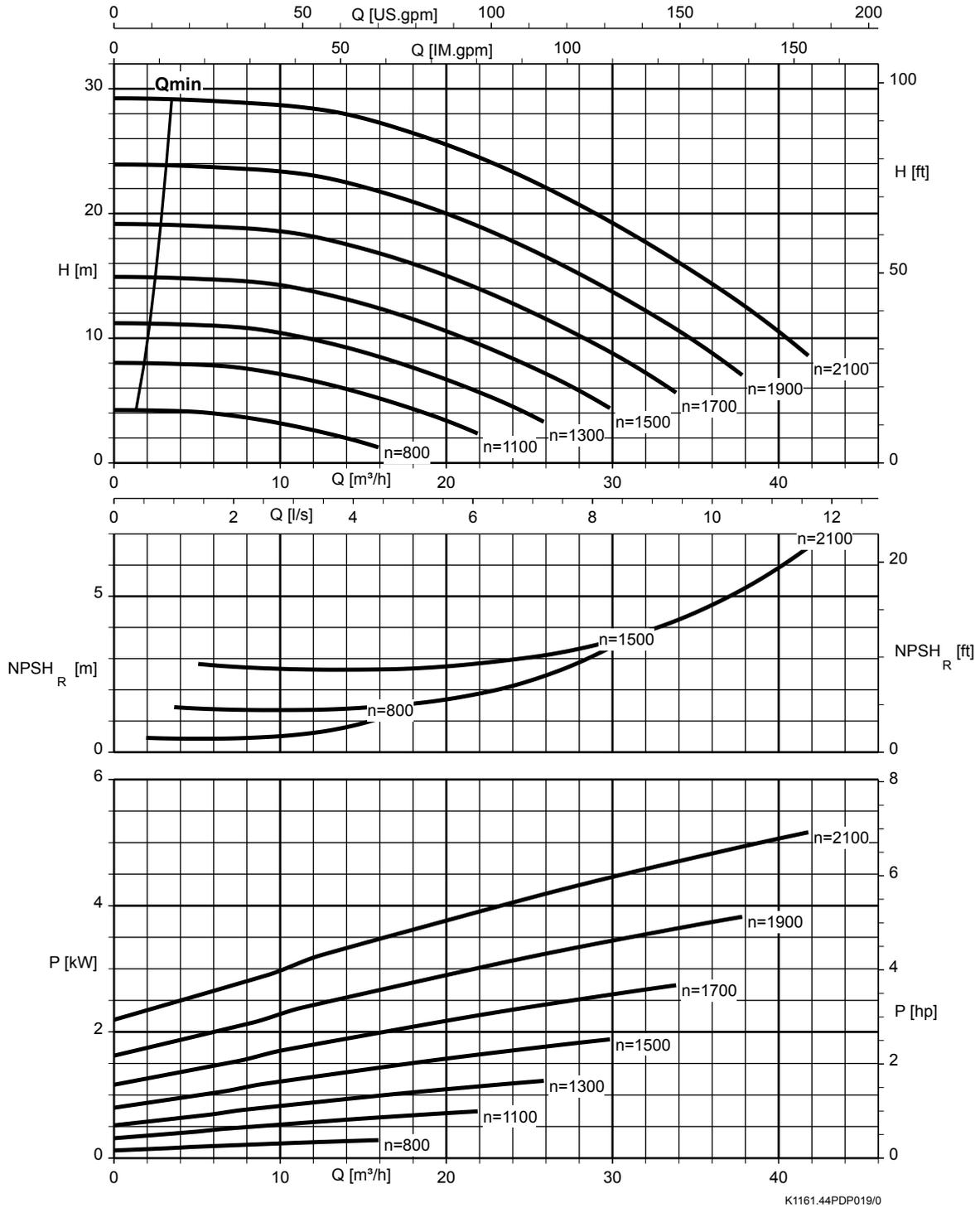


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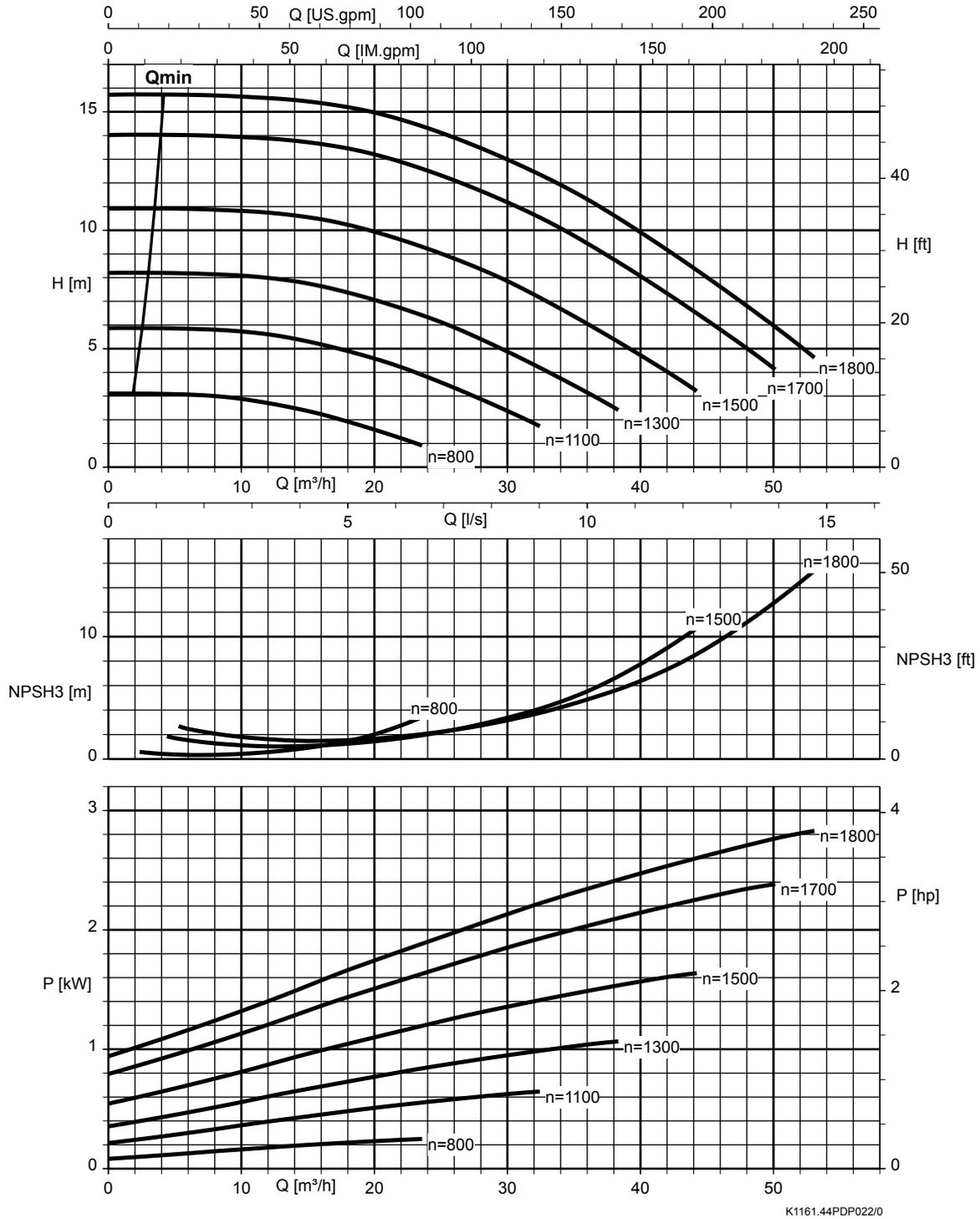
Etaline Z 032-032-160, parallel operation



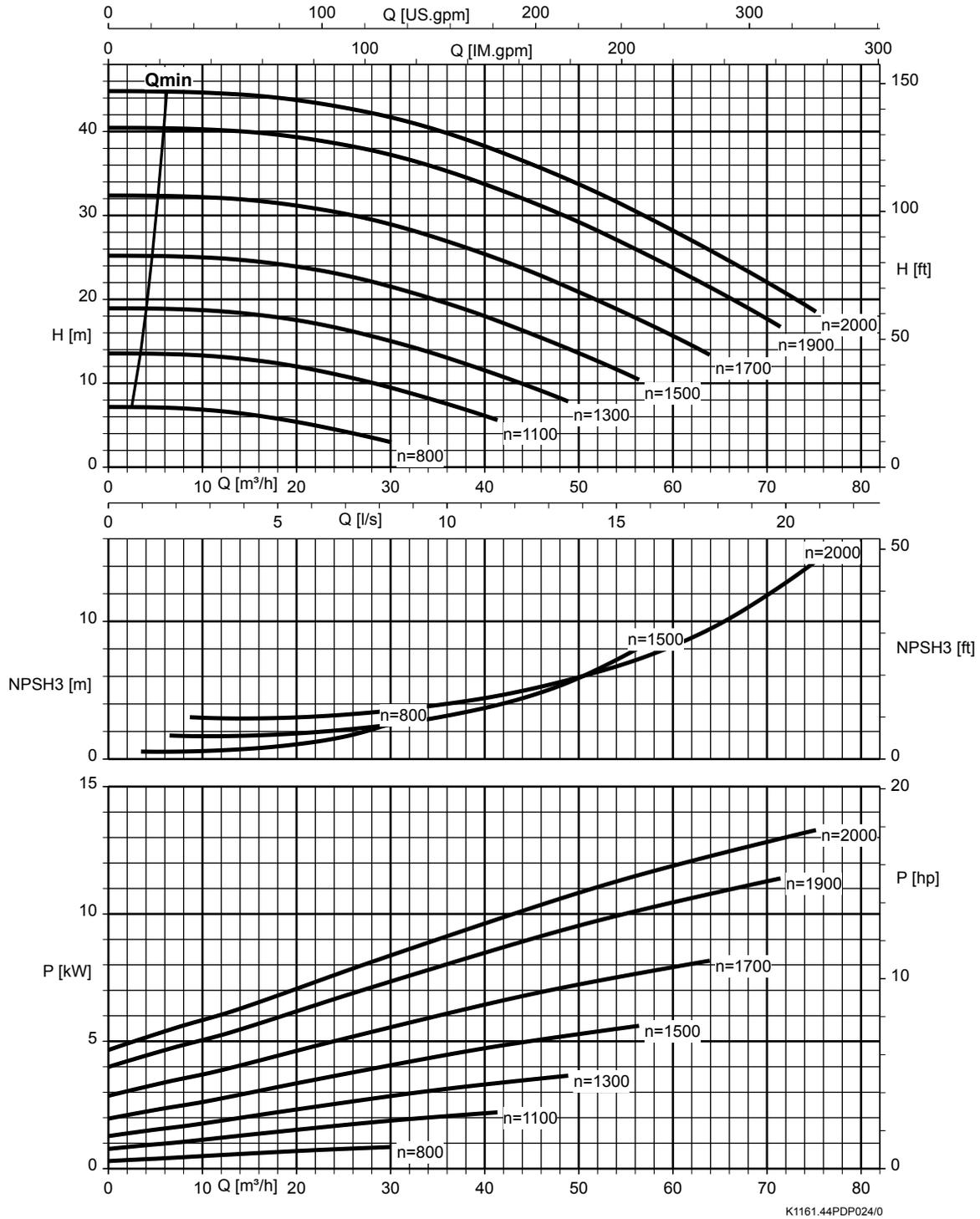
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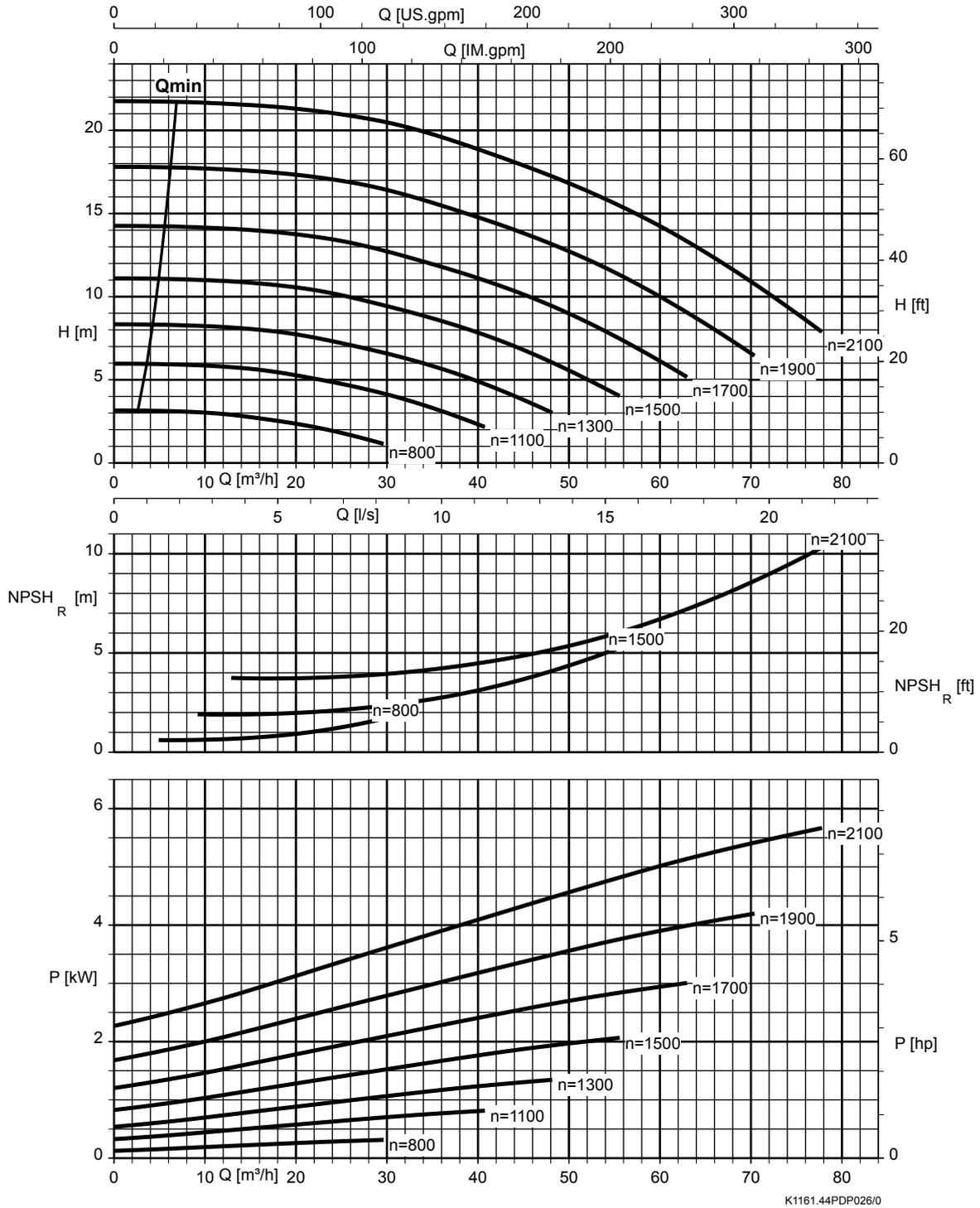


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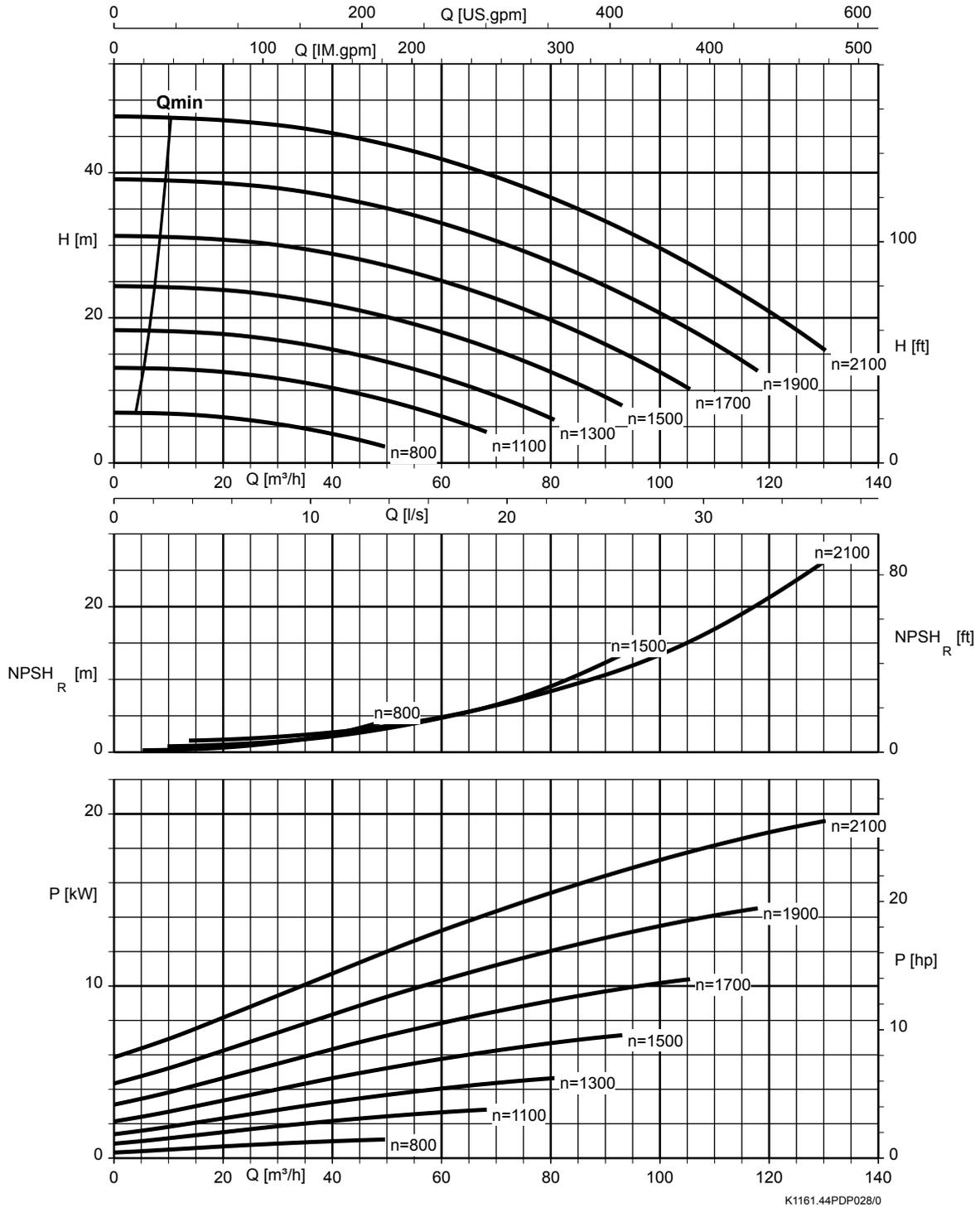


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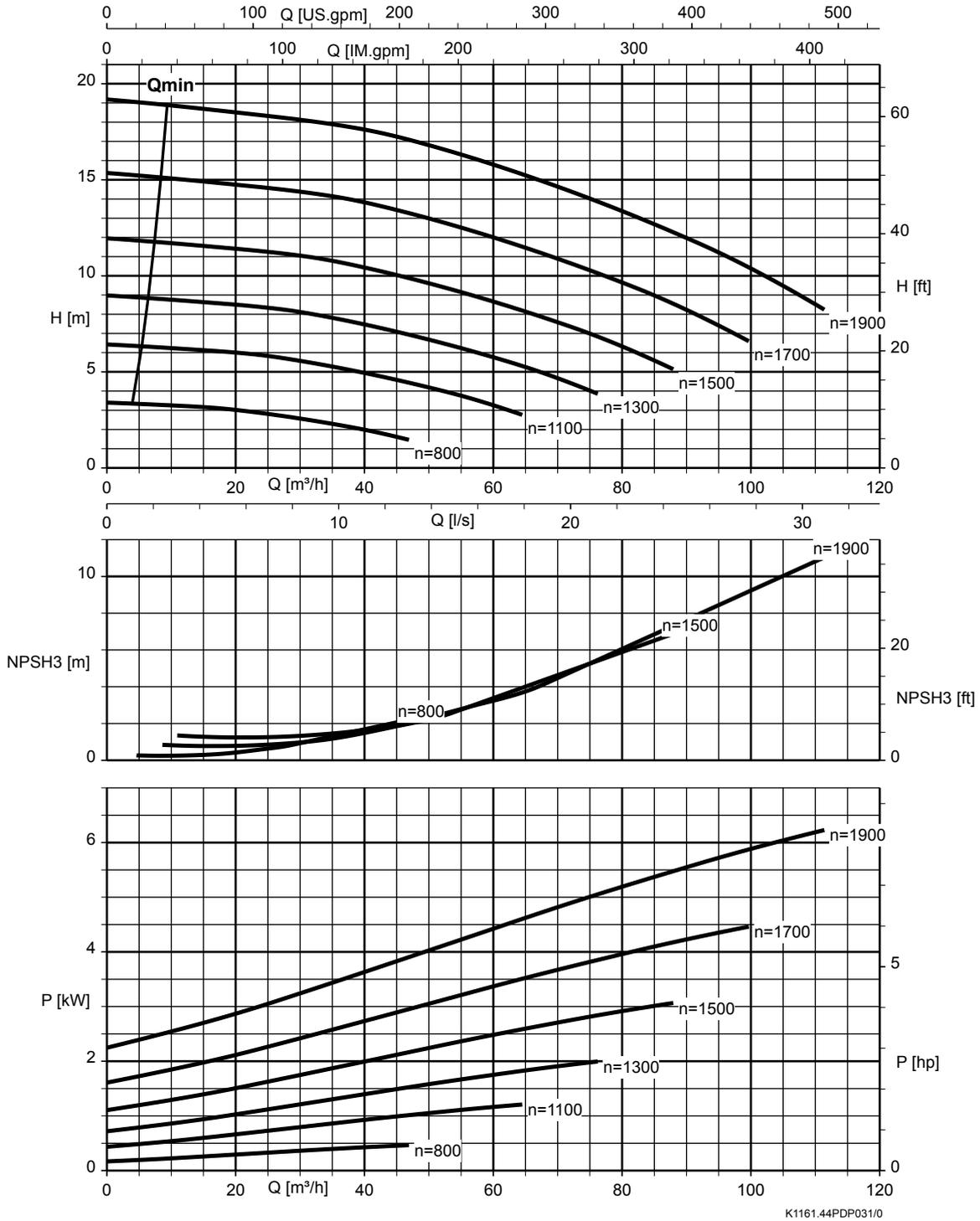
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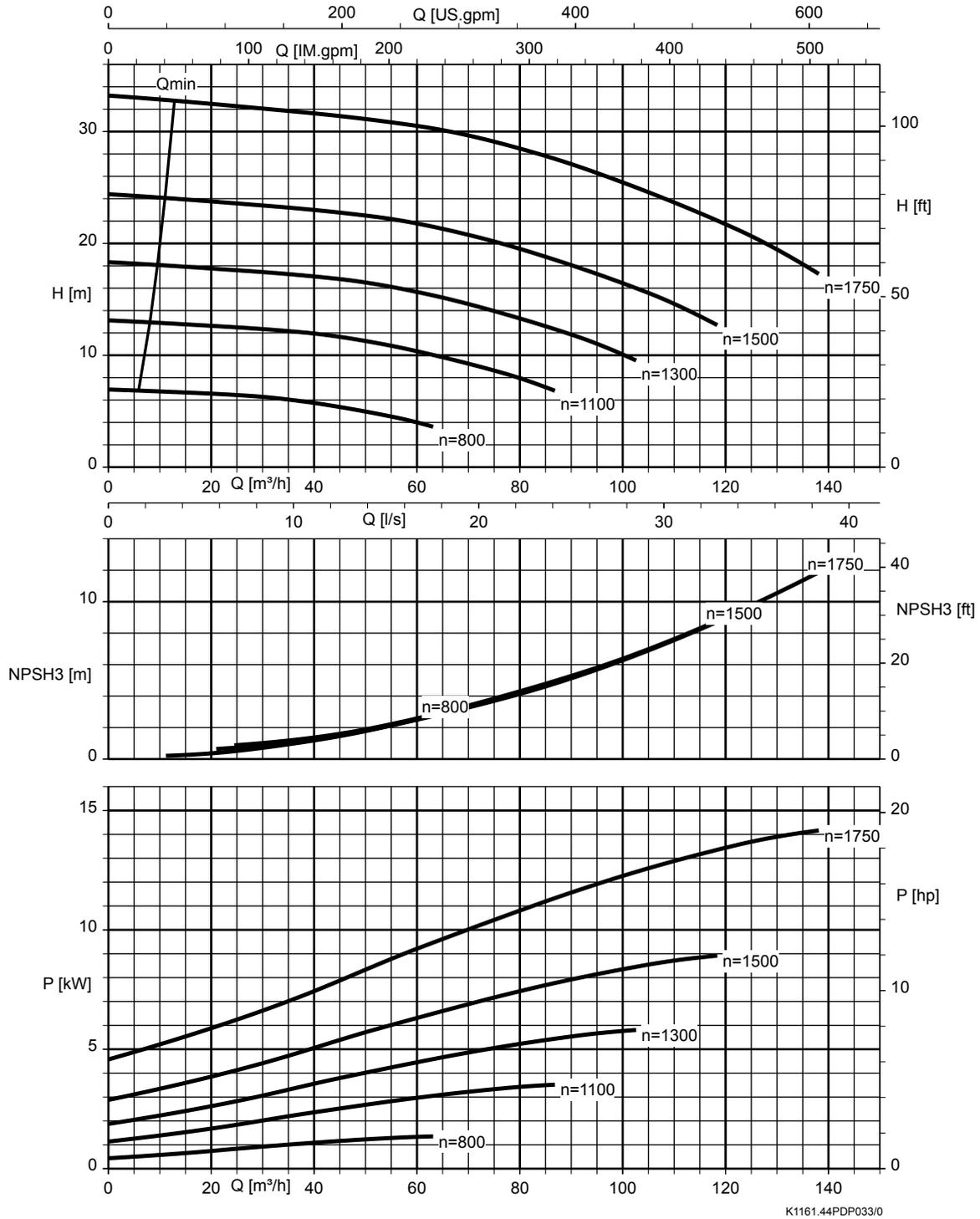
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Etaline Z 065-065-160, parallel operation

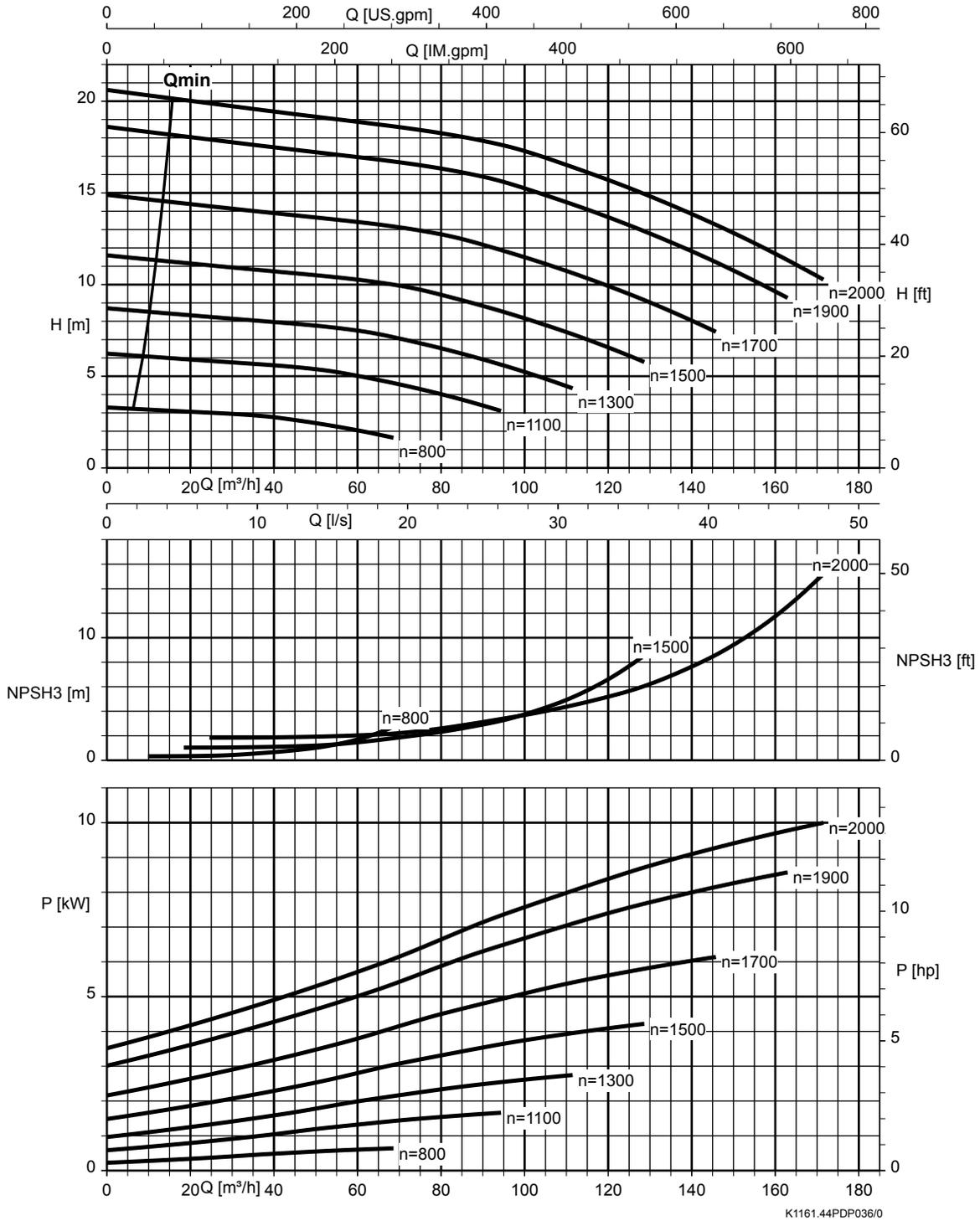


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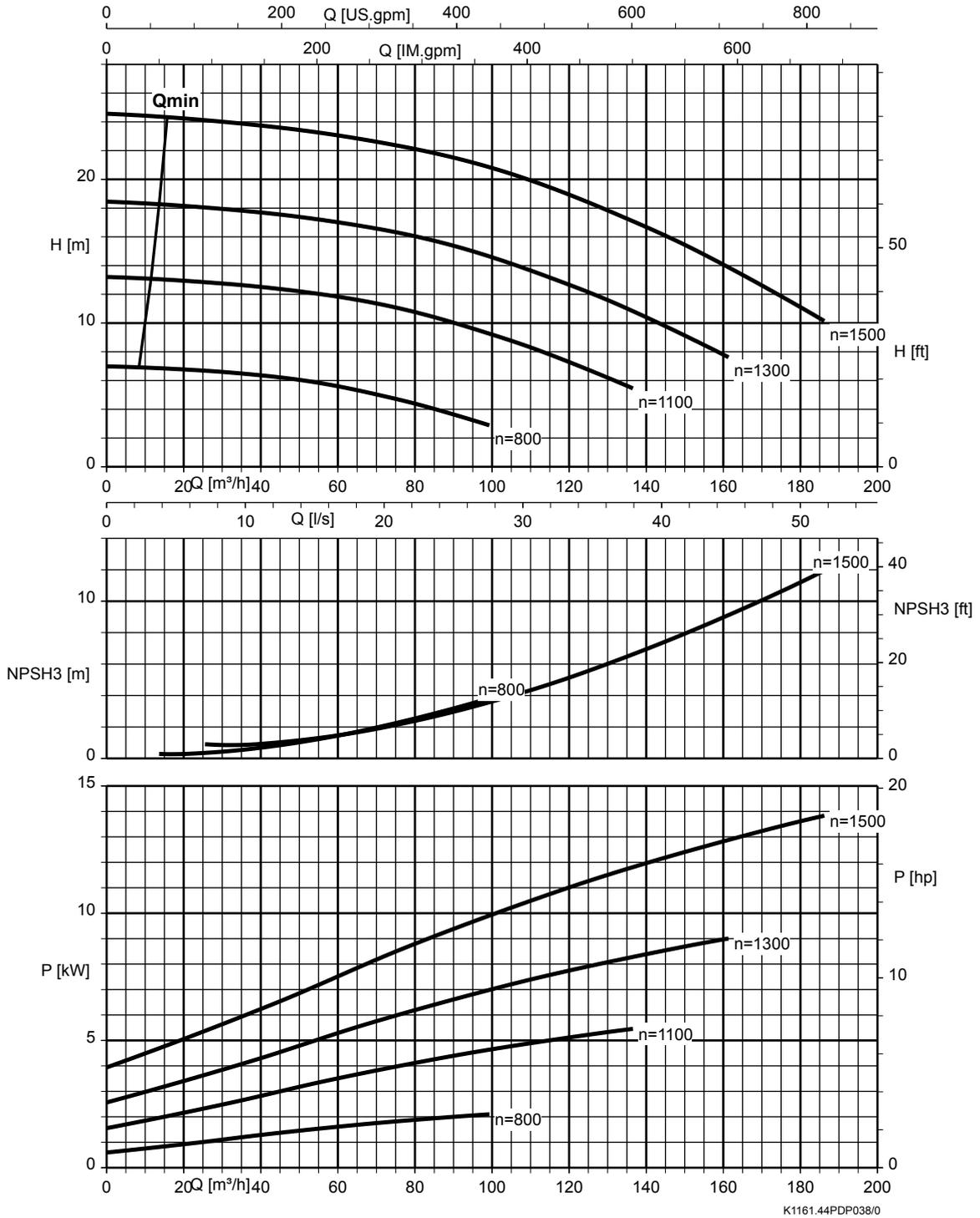


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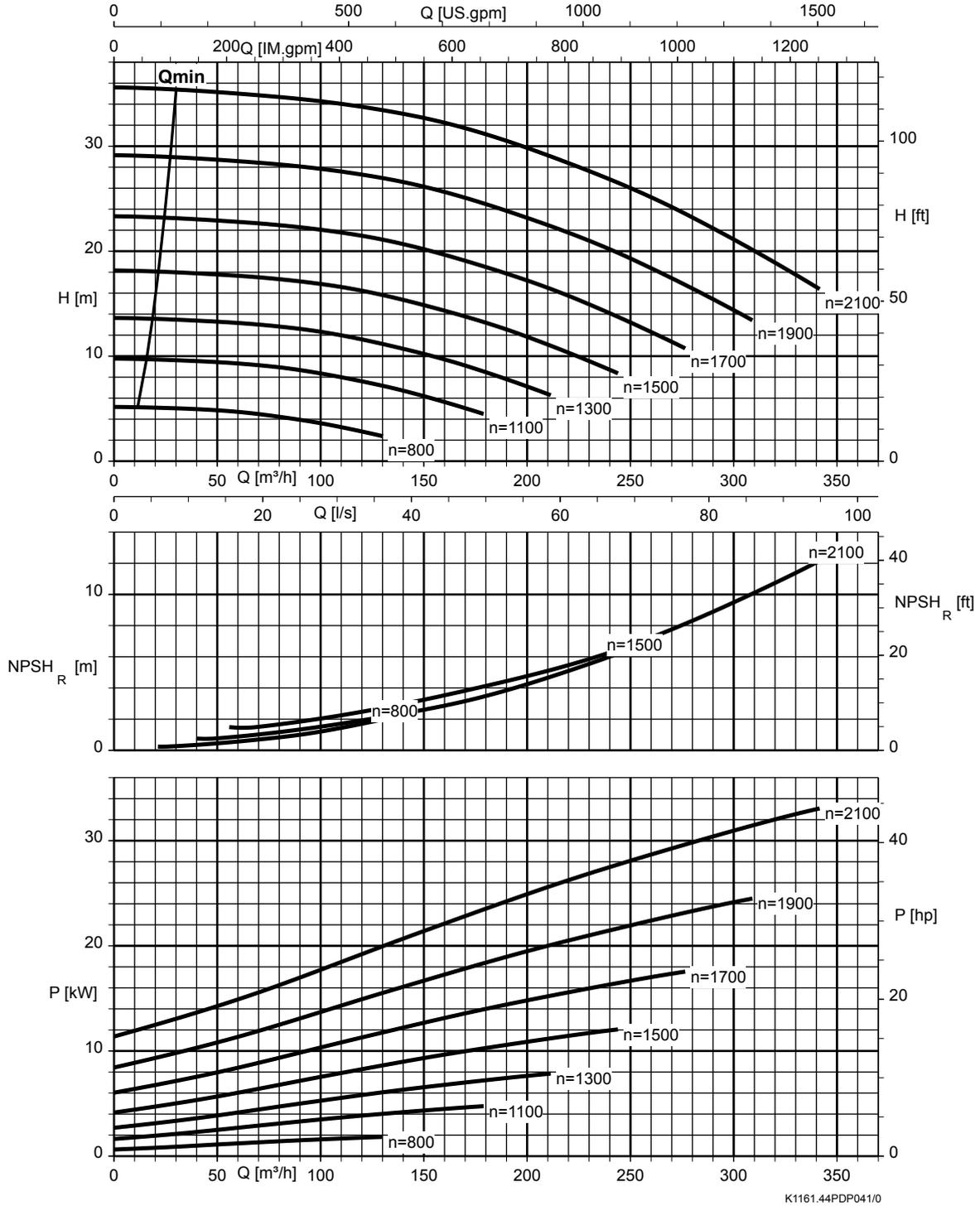
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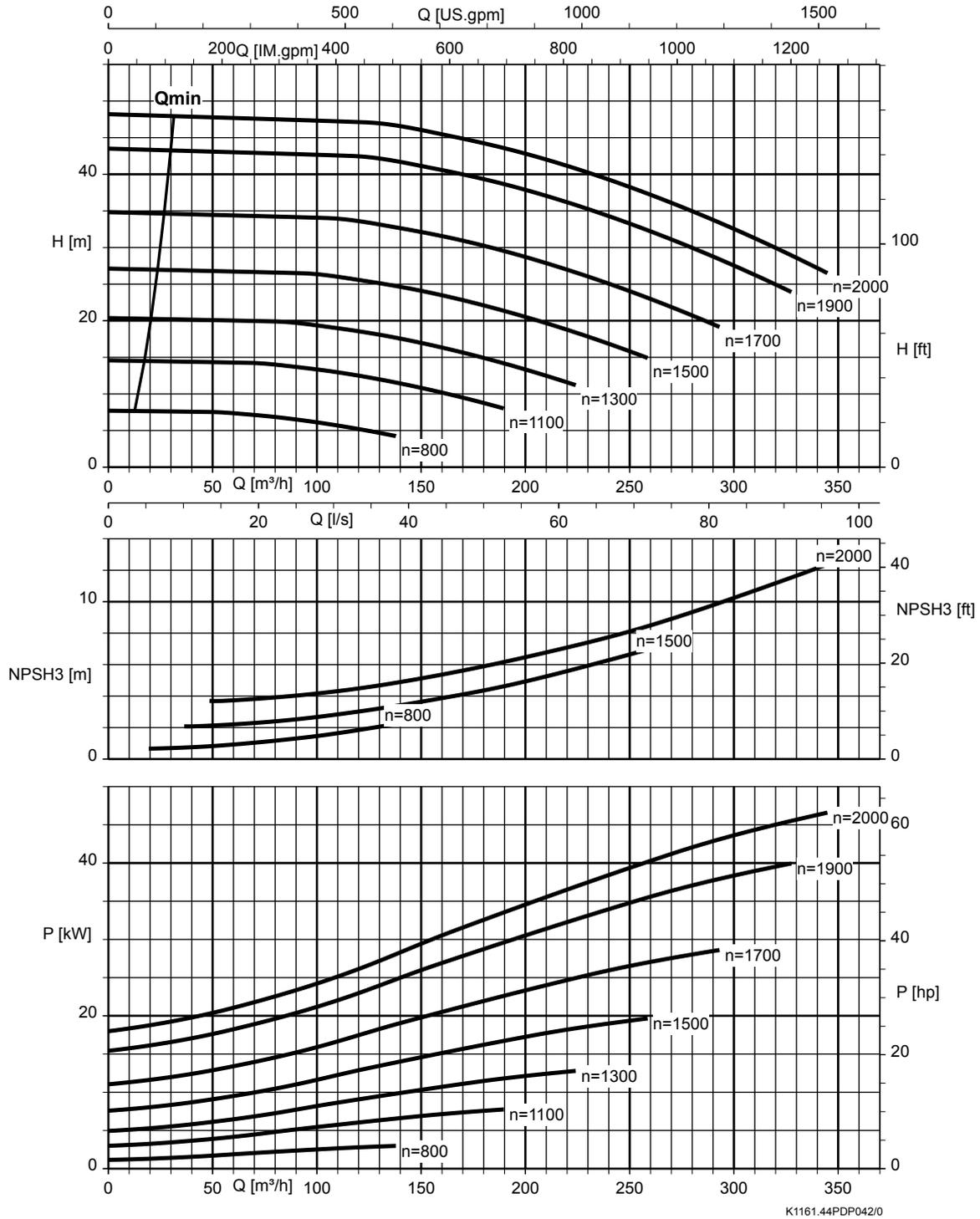
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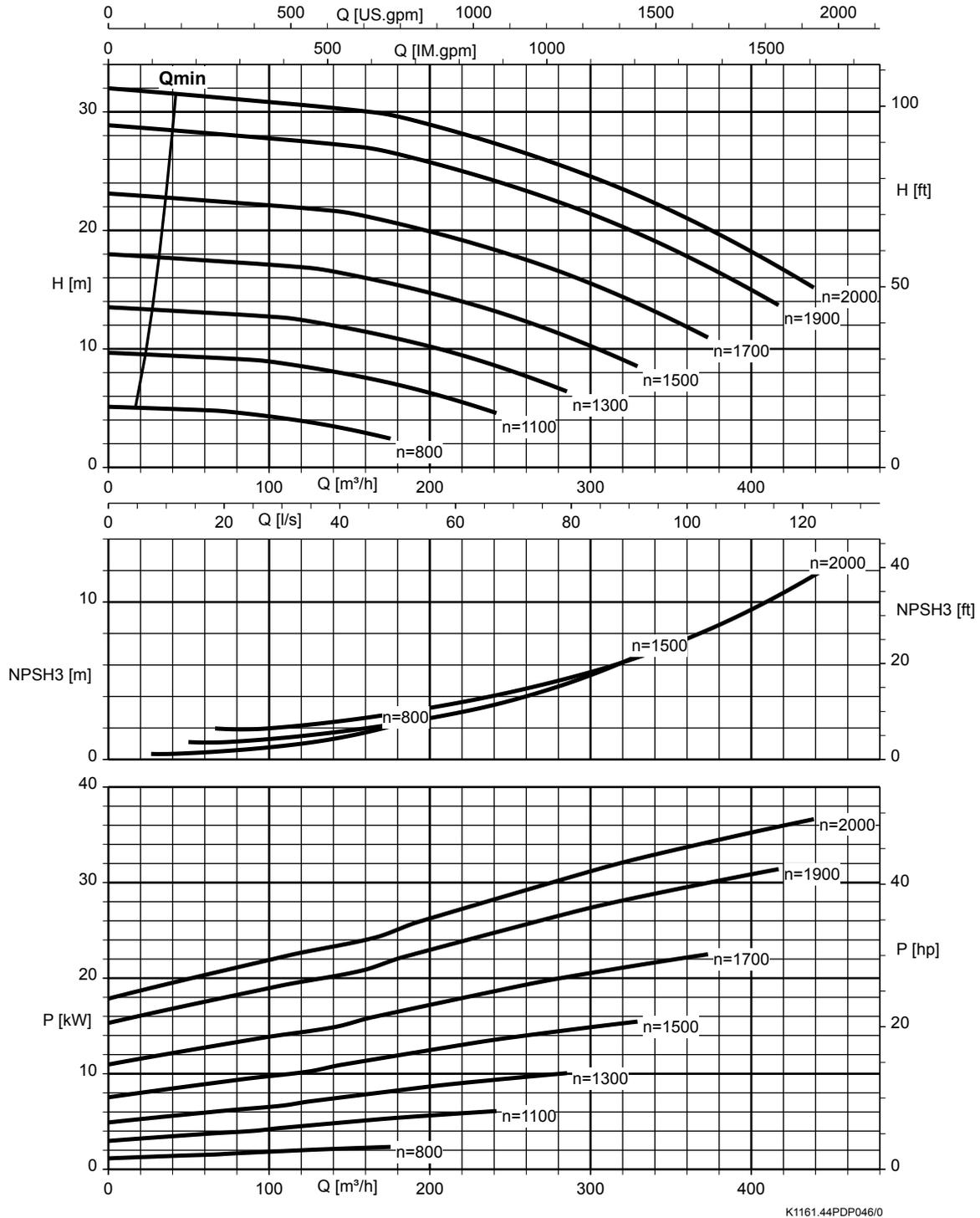
Etaline Z 100-100-200, parallel operation



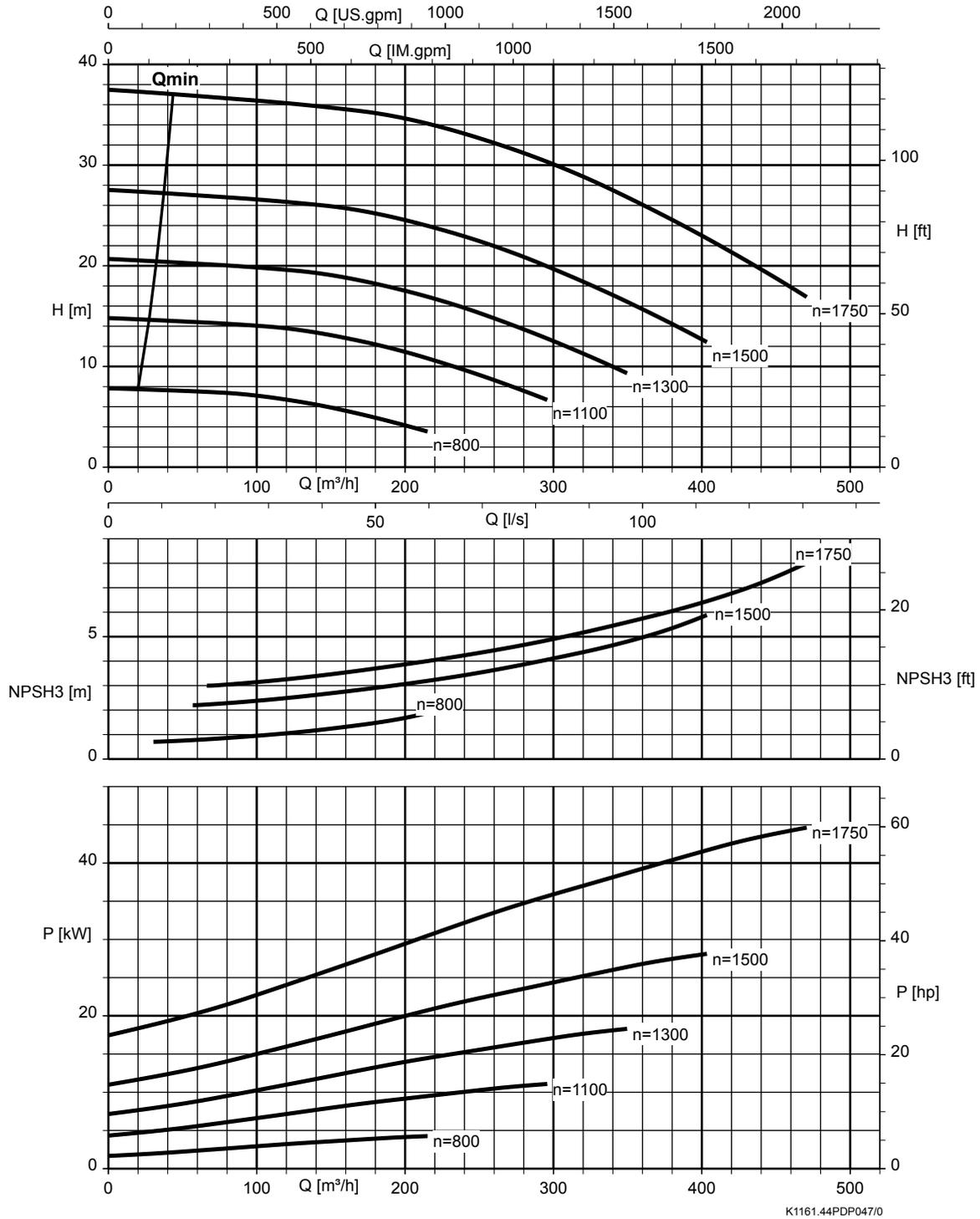
Etaline Z 100-100-250, parallel operation



Etaline Z 125-125-200, parallel operation

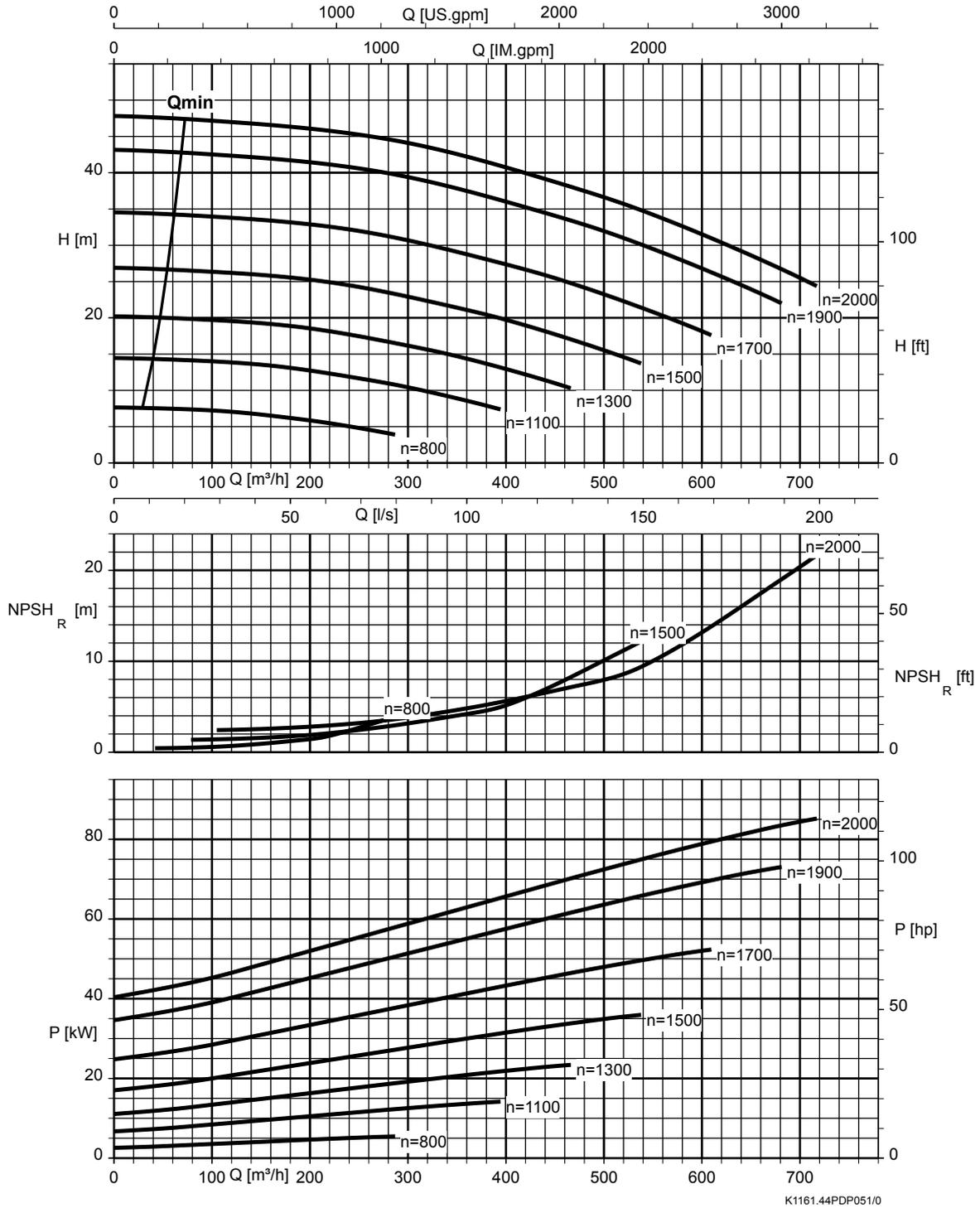


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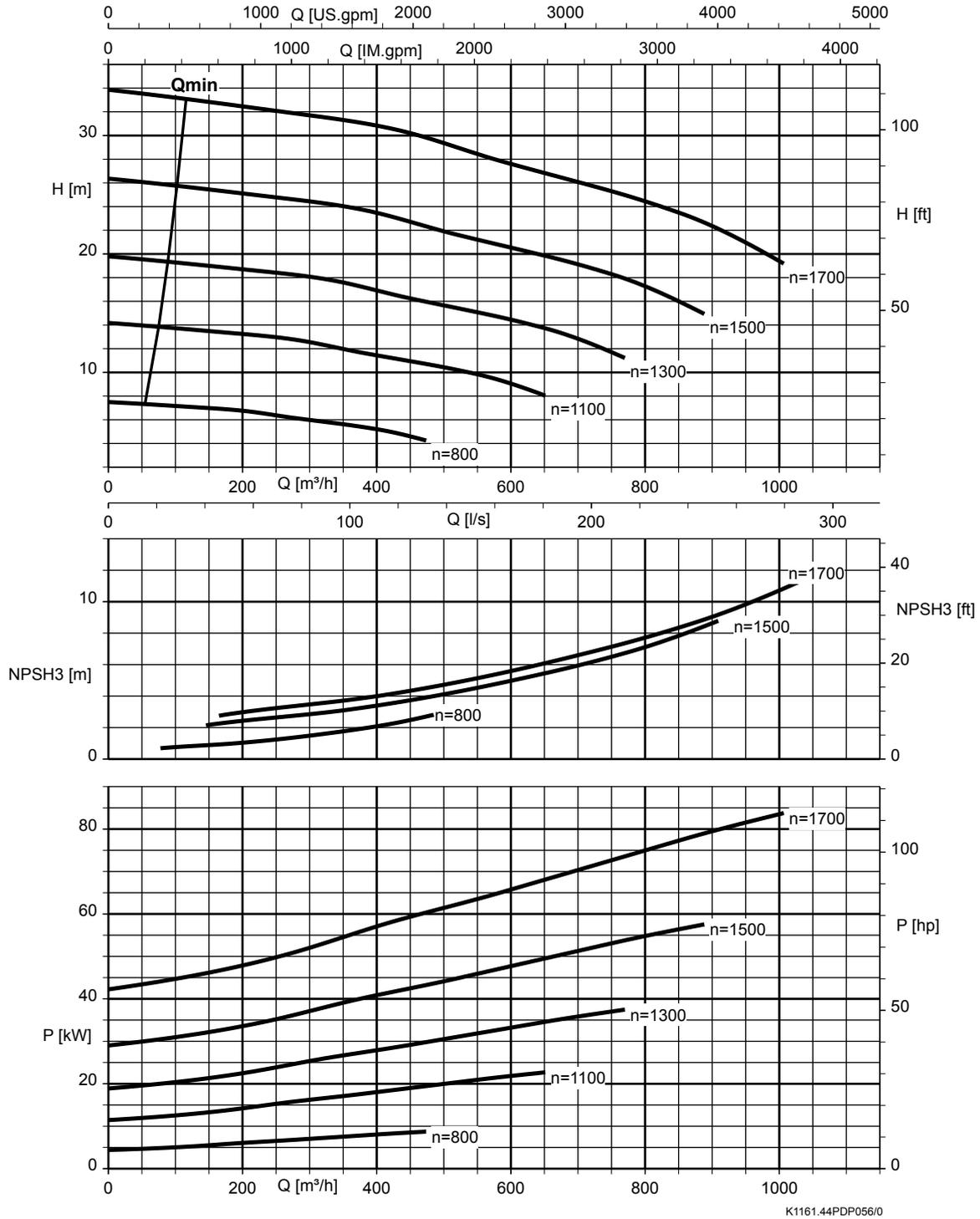


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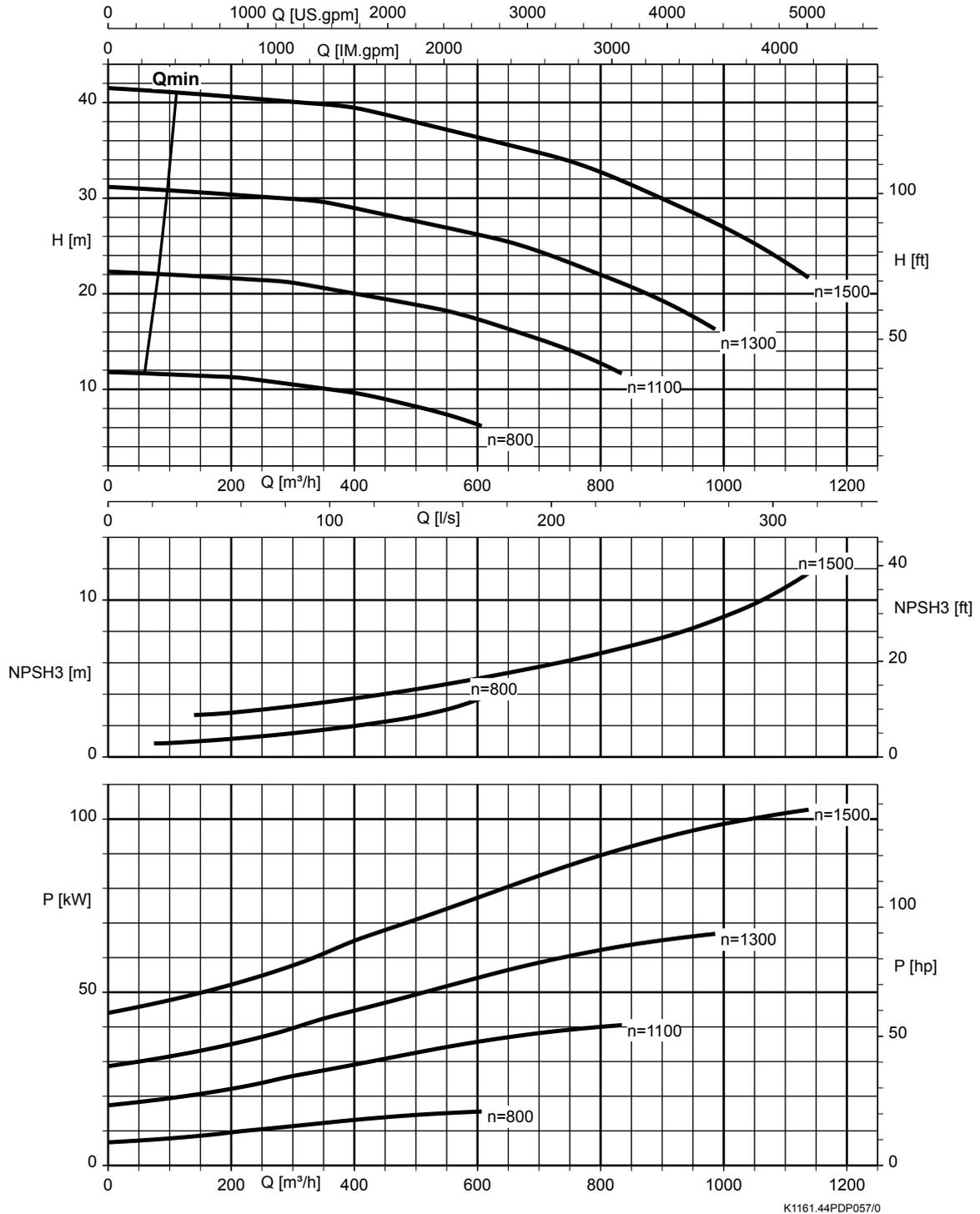
Etaline Z 150-150-250, parallel operation



Etaline Z 200-200-250, parallel operation



Etaline Z 200-200-315, parallel operation





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