



C.R.I. PUMPS

Pumping trust. Worldwide.

ECW SERIES 50Hz

EN 733
End Suction - Centrifugal Pumps







C.R.I. PUMPS

Pumping trust. Worldwide.

T H E B E G I N N I N G

of C.R.I., way back in 1961, was a resolute attempt to produce a few irrigation equipments using the limited facilities of an inhouse foundry. Eventually the founder's dream was coming true as the small production unit he started kept growing rapidly. Now, after more than five eventful decades, it is an enormous, widely reputed organization, which produces more than 9000 varieties of perfectly engineered pumps and motors and sells its products in 120 countries across 6 continents

C . R . I . I S O N E A M O N G

the few pioneers in the world to produce 100% stainless steel submersible pumps and it is a leading manufacturer of environment friendly water filled , rewindable motors .C.R.I.has extensive range of industrial pumps that include end suction pumps, Slurry pumps, Chemical pumps, Waste water pumps, Split case pumps, Booster pumps etc. today C.R.I. is rubbing its shoulders with the best brands in the world, with advanced technology and safety standards as its hallmarks.

T H E I N F R A S T R U C T U R E

of C.R.I. is pretty comprehensive with state-of-the-art machineries and a high potential R&D wing, Total production area over 3.2 million SF, Fully equipped with world class, Machineries with a manufacturing capacities of more than 3 Million pumps and Motors per year and over 9000 product variant are accredited with international quality certifications such as NSF, CSA, CE, UR, UL, TSE, ISO 9001, ISO 14001 and OHAS 18001

N E E D L E S S T O S A Y ,

behind this legendary growth lies the untiring, innovative, enthusiastic and dedicated team work. and, of course, a flawlessly maintained value system too. The name C.R.I. itself encapsulates the company's ethos:

"Commitment, Reliability, Innovation".



**C.R.I. FLUID SYSTEMS**

Pumping trust. Worldwide.

Vision, Mission and Values

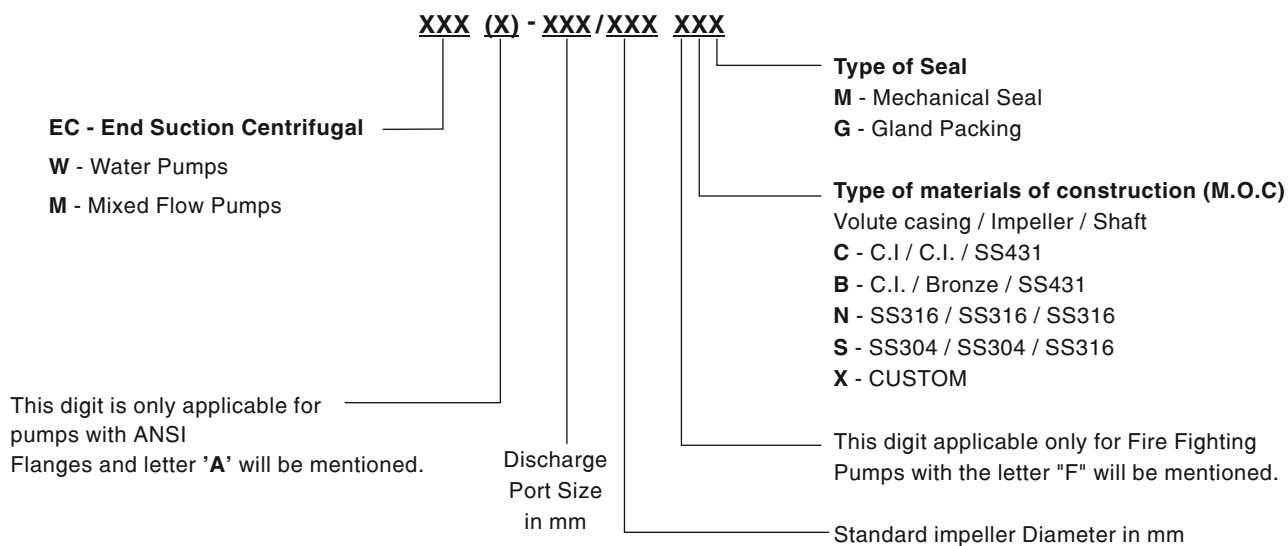
To be the industry leader providing best - in - class fluid management solutions to individual and institutional customers and societies in our chosen markets.

We will achieve this through our dedicated efforts to enhance the welfare of all our stakeholders and by living by our values of **commitment, reliability and innovation.**

C O N T E N T S

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MODEL IDENTIFICATION CODE



Example : **ECW-32/125 CG**

GENERAL DATA

DESCRIPTION

ECW series are single stage, end suction, back pull out, top centreline discharge type. These are offered with different material of construction to handle clear and slight raw water. Dynamically balanced impeller ensures vibration and noise free operation for long life. Mounting and duties are in accordance with EN 733 with DIN flanges suitable for continuous operation.

SALIENT FEATURES

- Robust shaft design
- Closed impeller with back vanes providing axial balancing of impeller loads
- Optimized hydraulic design
- Optional common stuffing box for both gland and mechanical seal
- Back pull out design for ease of maintenance

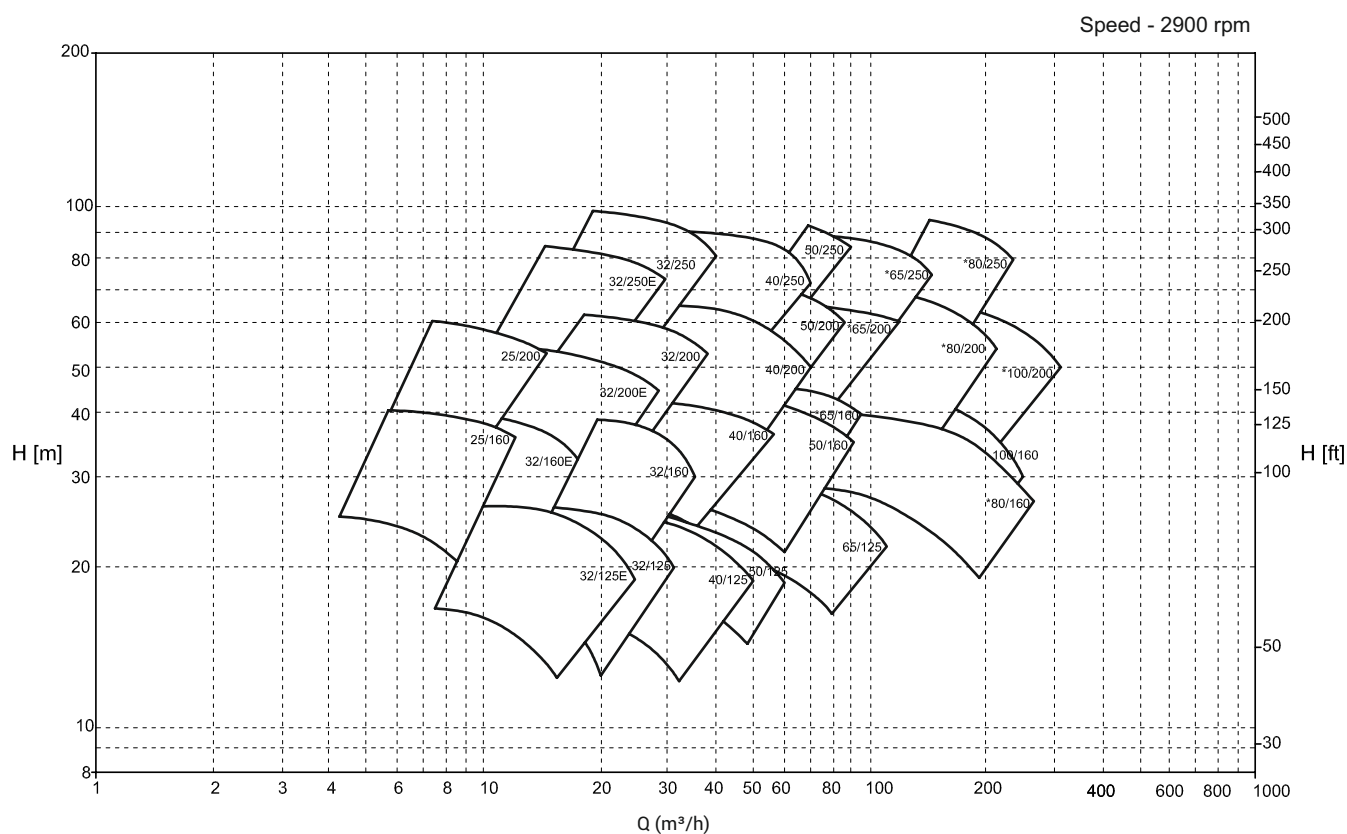
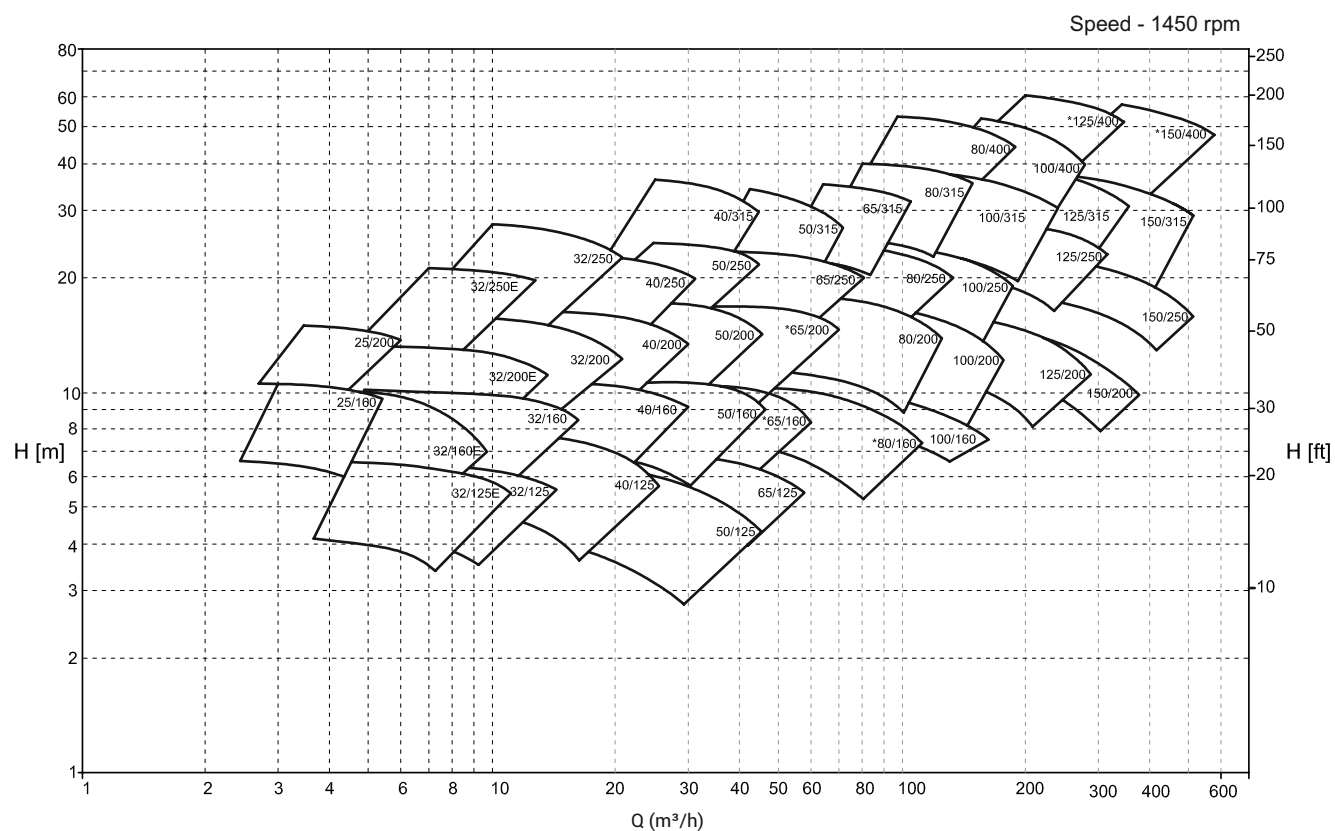
APPLICATIONS

- Utility water supply in commercial buildings
- Heating, ventilation and air-conditioning system
- Industry
- Cooling and washing system
- Pumping brines and oils
- Fire fighting
- Water transfer & boosting
- Irrigation
- Filling and draining of tanks and reservoir

OPERATING DATA

Flow	Upto 600 m ³ /h
Head	Upto 98 m
Outlet Size	Upto 150 mm
Liquid Temp.	Upto 90°C
Working Pressure	Upto 16 bar
MOC	CI, Bronze & SS

FAMILY CURVE

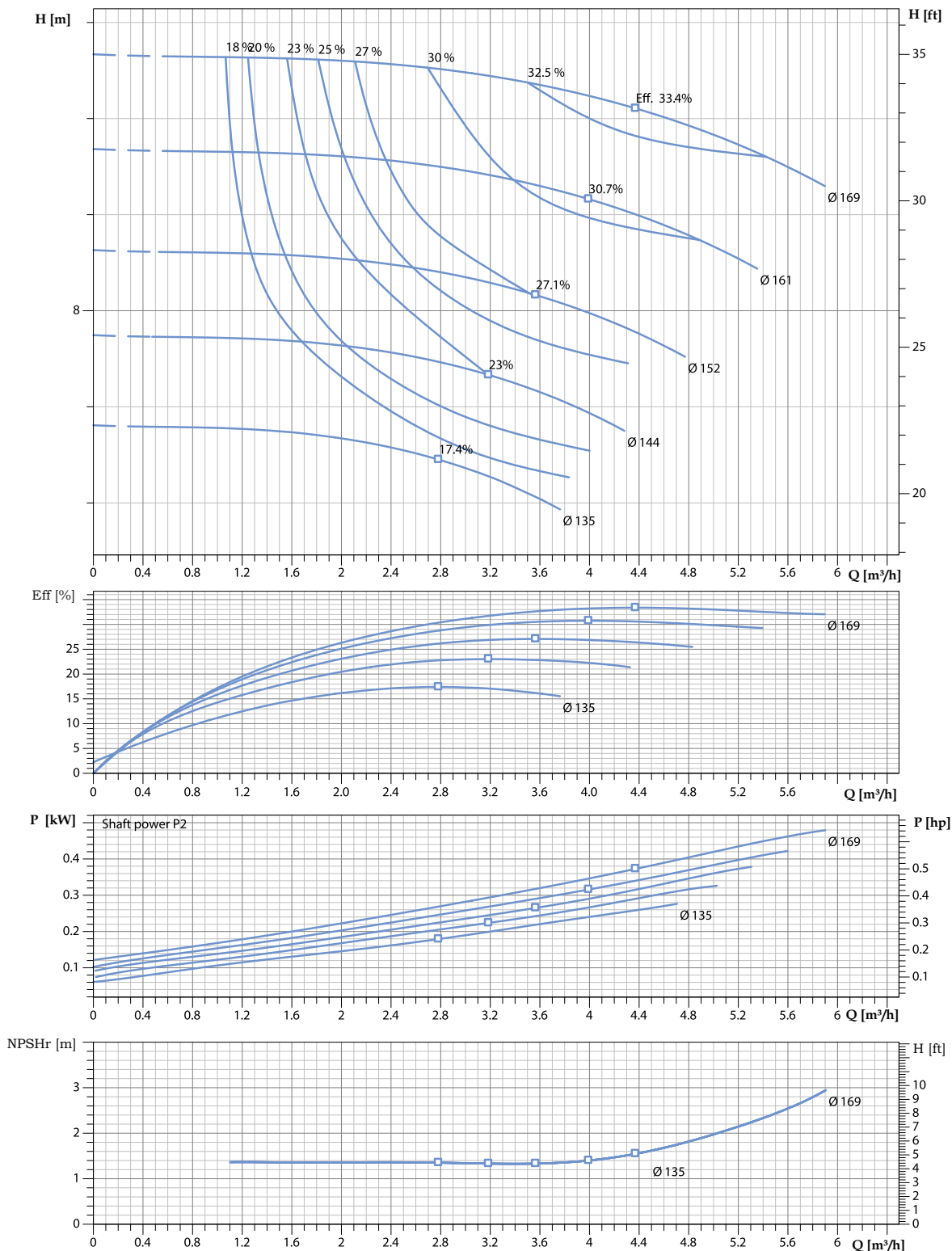


Performance Curve

Pump Model : ECW - 25/160

Pump Size in mm : (Suc X Dis X Imp Size) 40 X 25 X 160

Speed : 1450 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
For safety kindly consider a margin of 0.5m higher of NPSH.

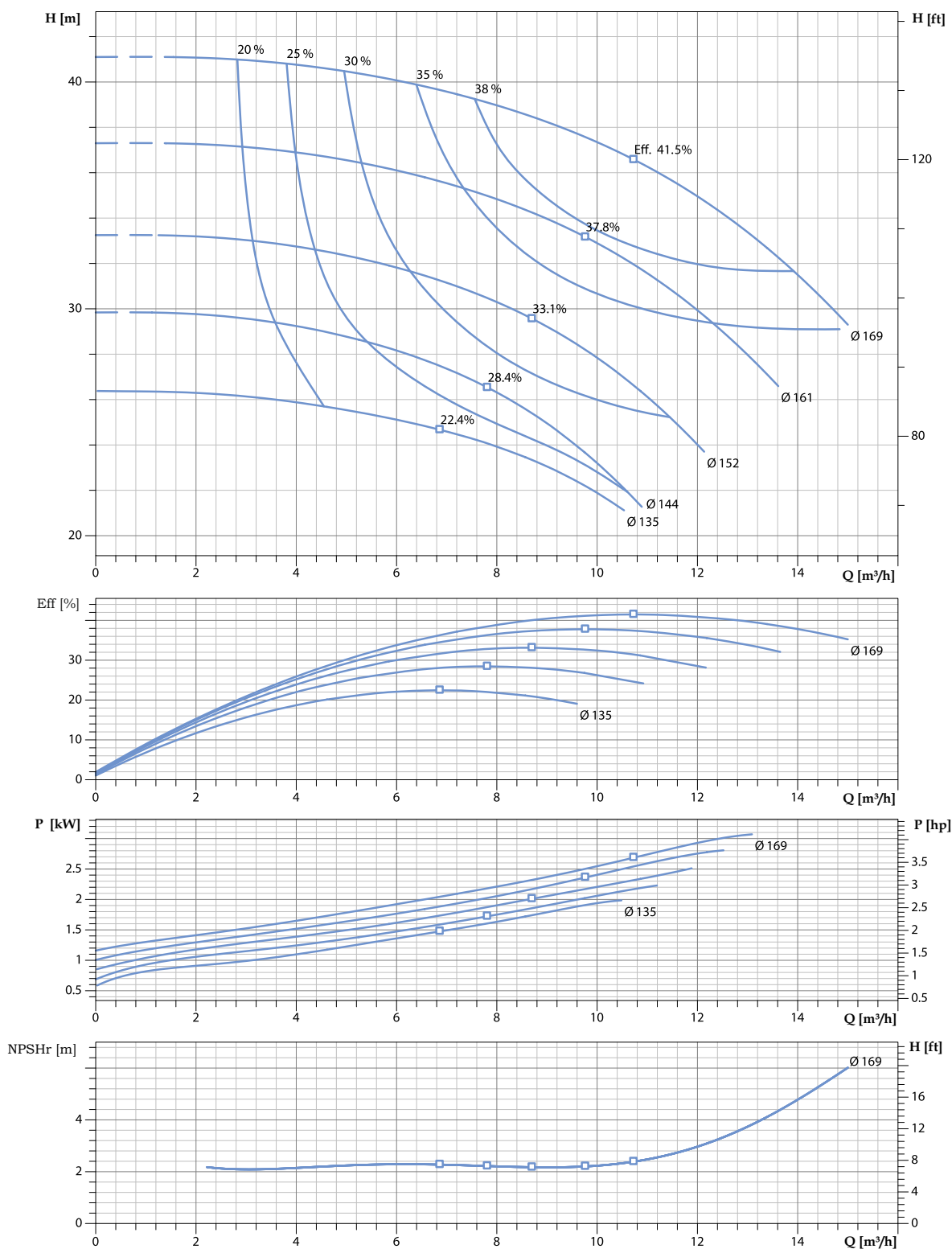
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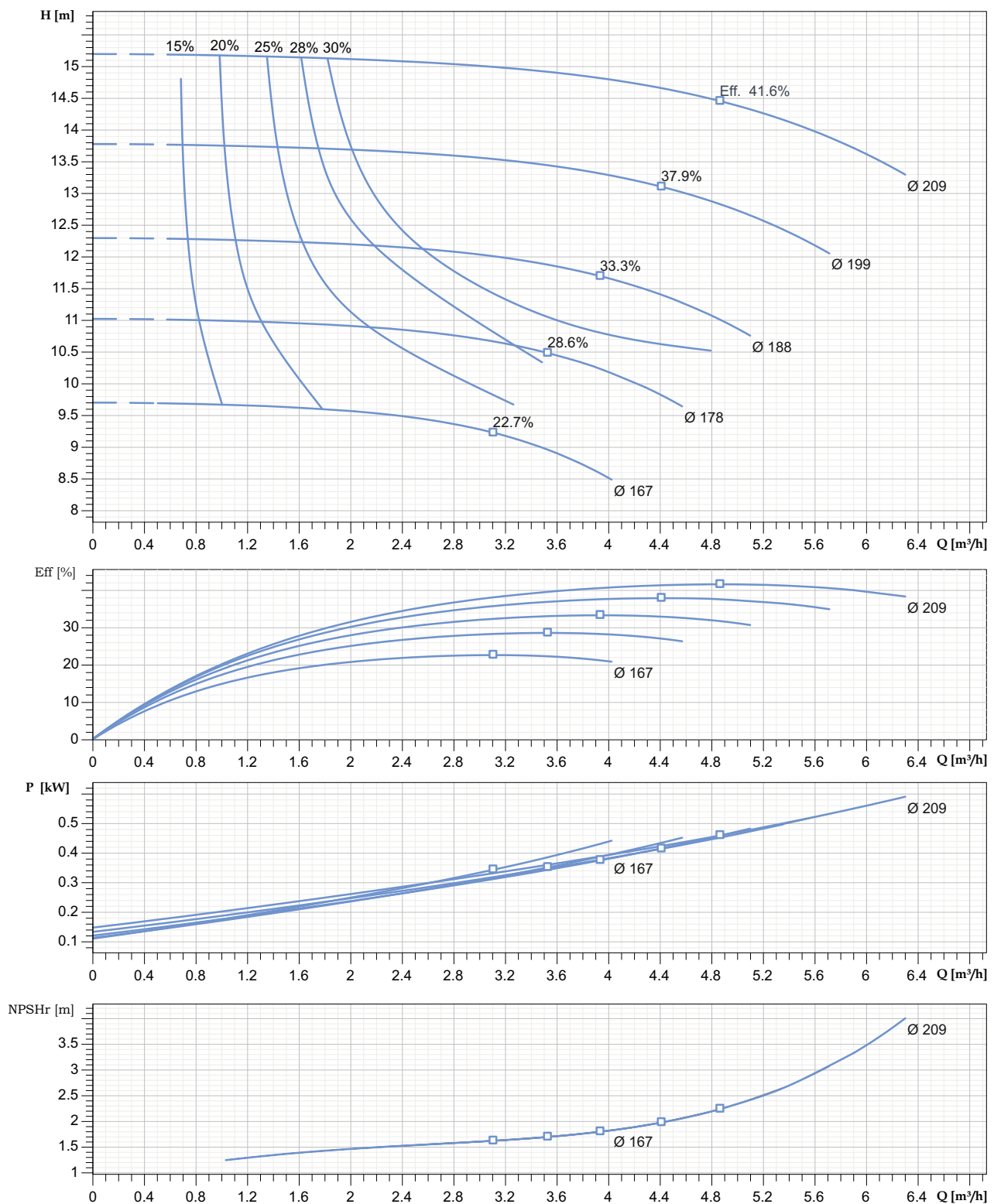
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Performance Curve

Pump Model : ECW - 25/200

Pump Size in mm : (Suc X Dis X Imp Size) 40 X 25 X 200

Speed : 1450 rpm



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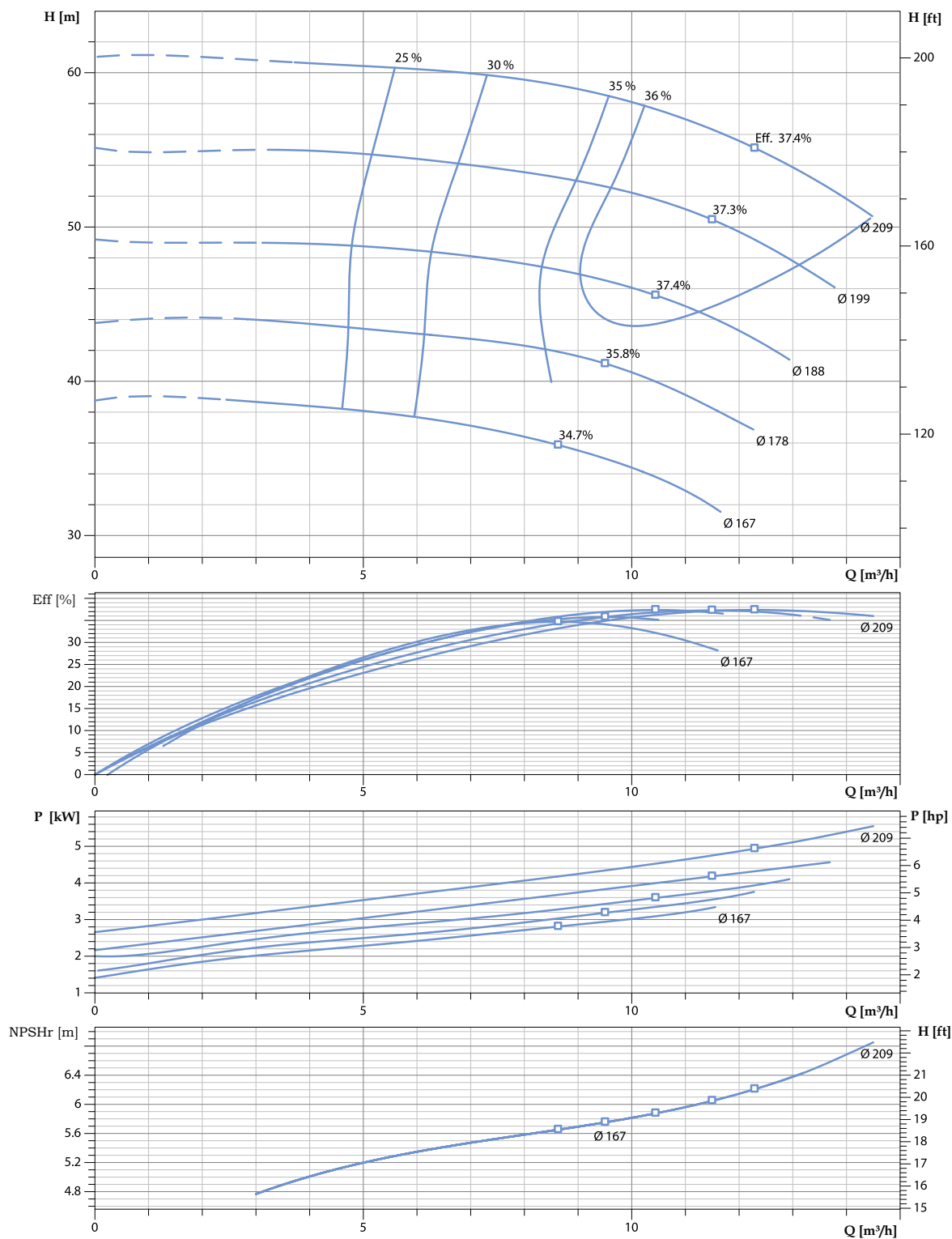
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Pump Model : ECW - 25/200

Pump Size in mm : (Suc X Dis X Imp Size) 40 X 25 X 200

Speed : 2900 rpm



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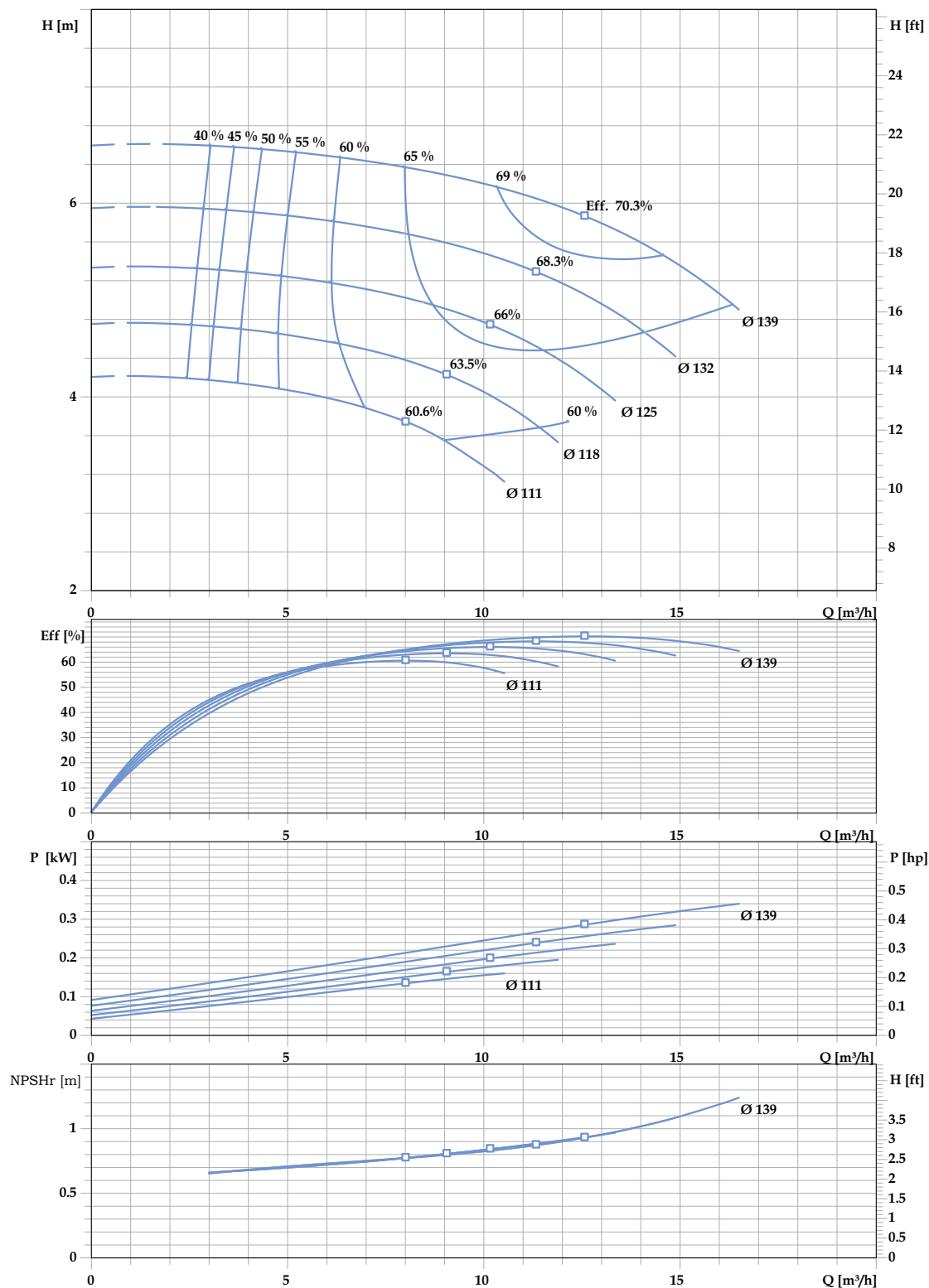
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Performance Curve

Pump Model : ECW - 32/125

Pump Size in mm : (Suc X Dis X Imp Size) 50 X 32 X 125

Speed : 1450 rpm



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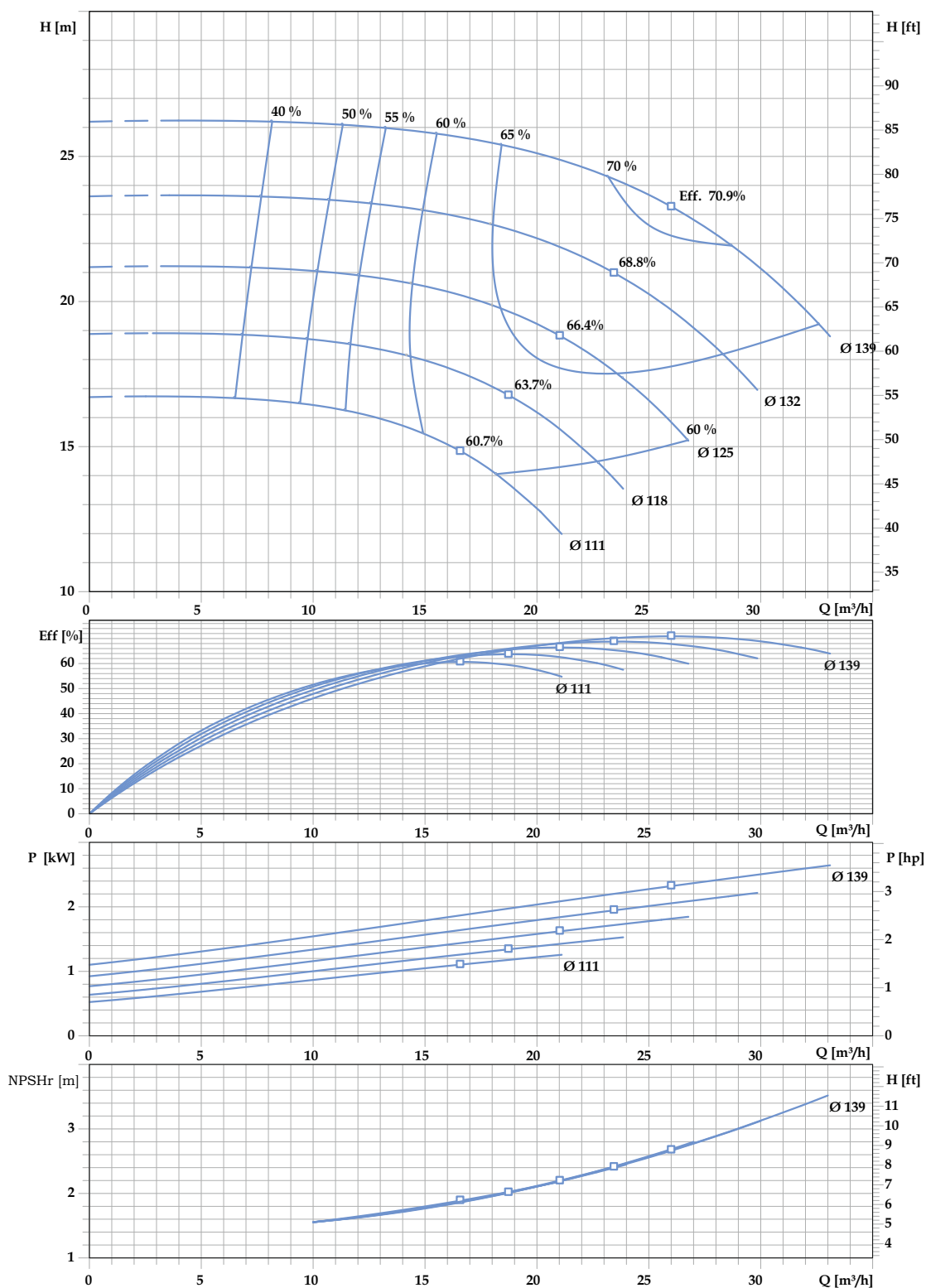
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Performance Curve

Pump Model : ECW - 32/125

Pump Size in mm : (Suc X Dis X Imp Size) 50 X 32 X 125

Speed : 2900 rpm



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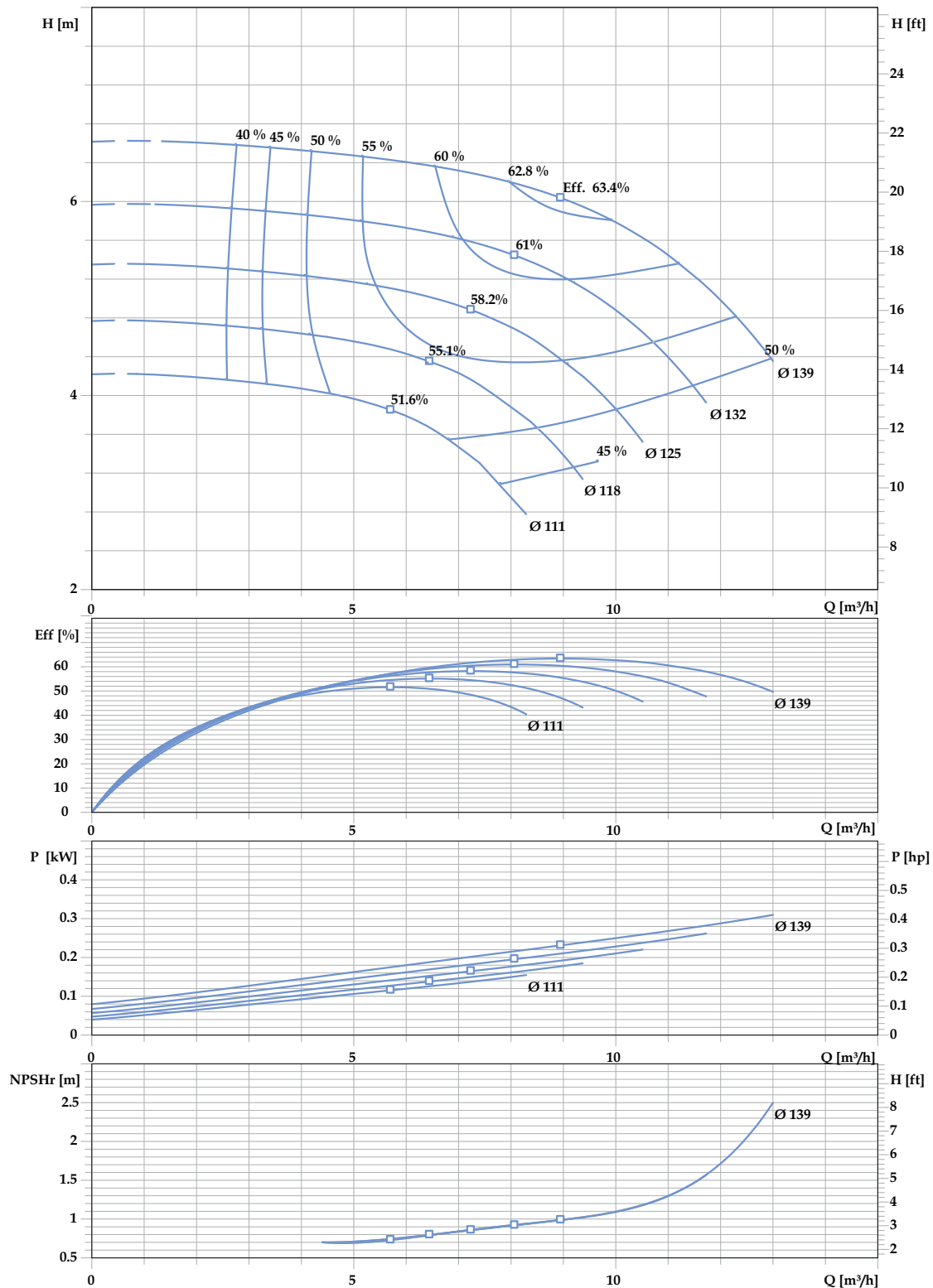
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Performance Curve

Pump Model : ECW - 32/125E

Pump Size in mm : (Suc X Dis X Imp Size) 50 X 32 X 125E

Speed : 1450 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
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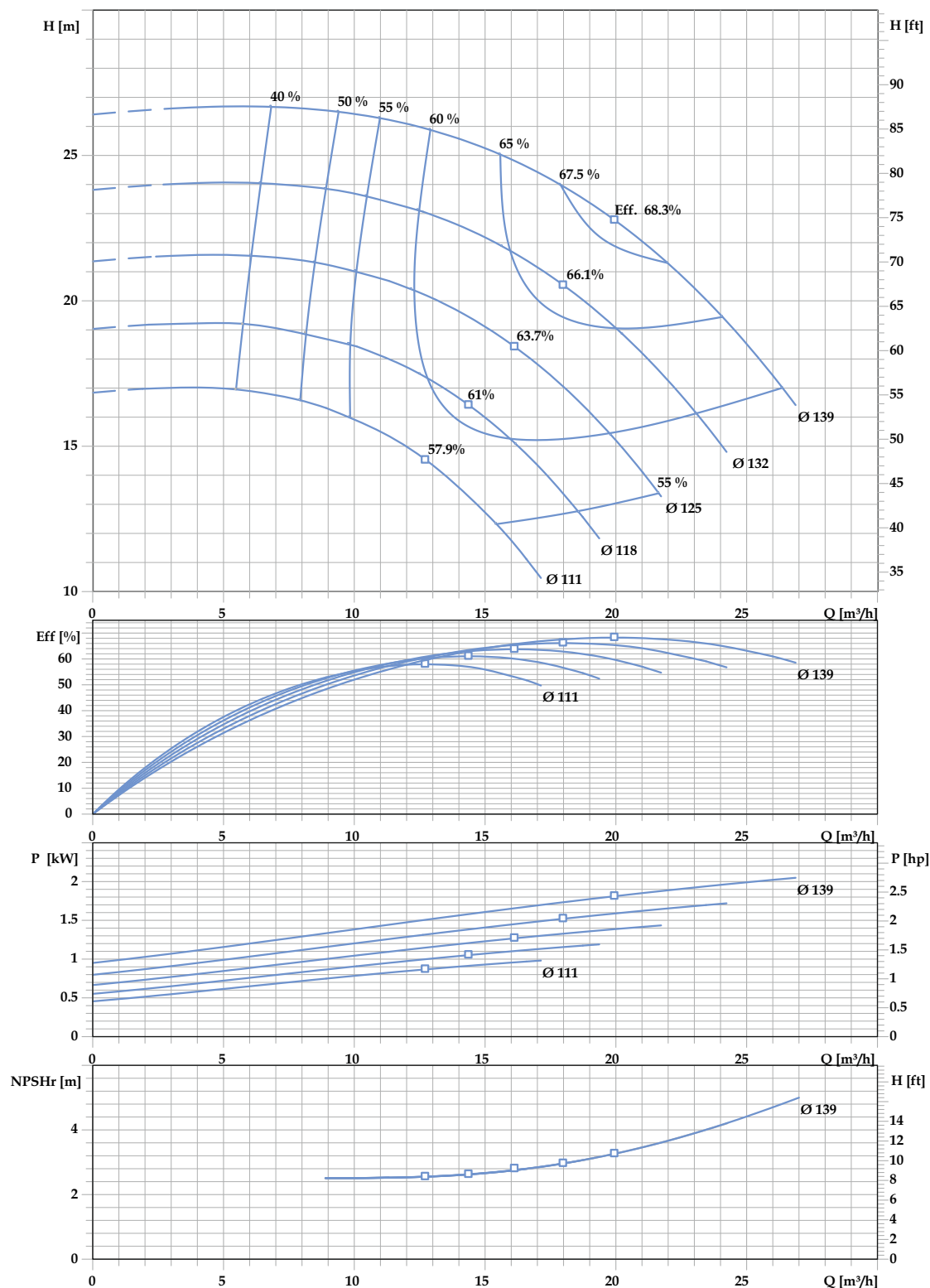
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Pump Model : ECW - 32/125E

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Speed : 2900 rpm



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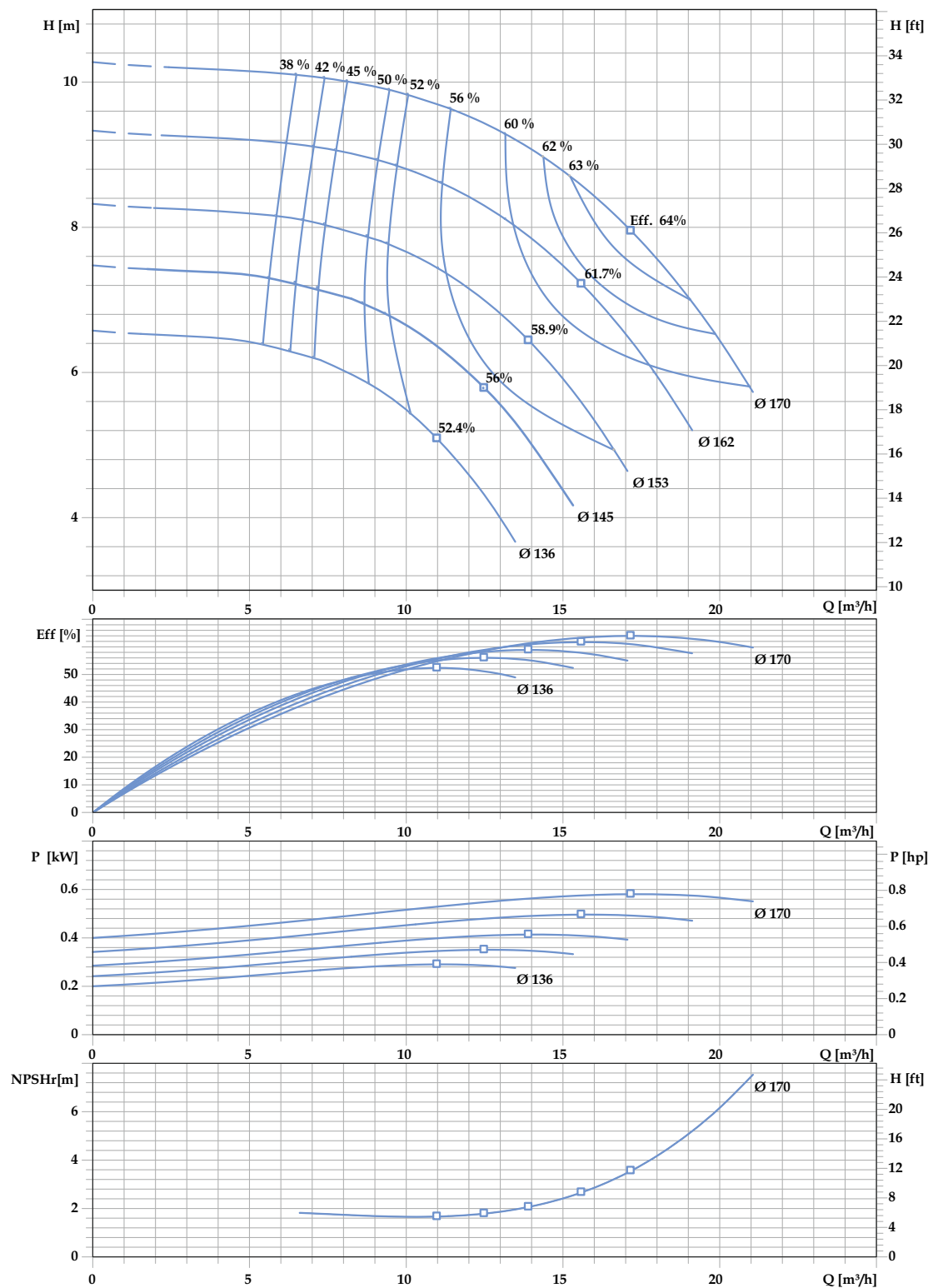
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Performance Curve

Pump Model : ECW - 32/160

Pump Size in mm : (Suc X Dis X Imp Size) 50 X 32 X 160

Speed : 1450 rpm



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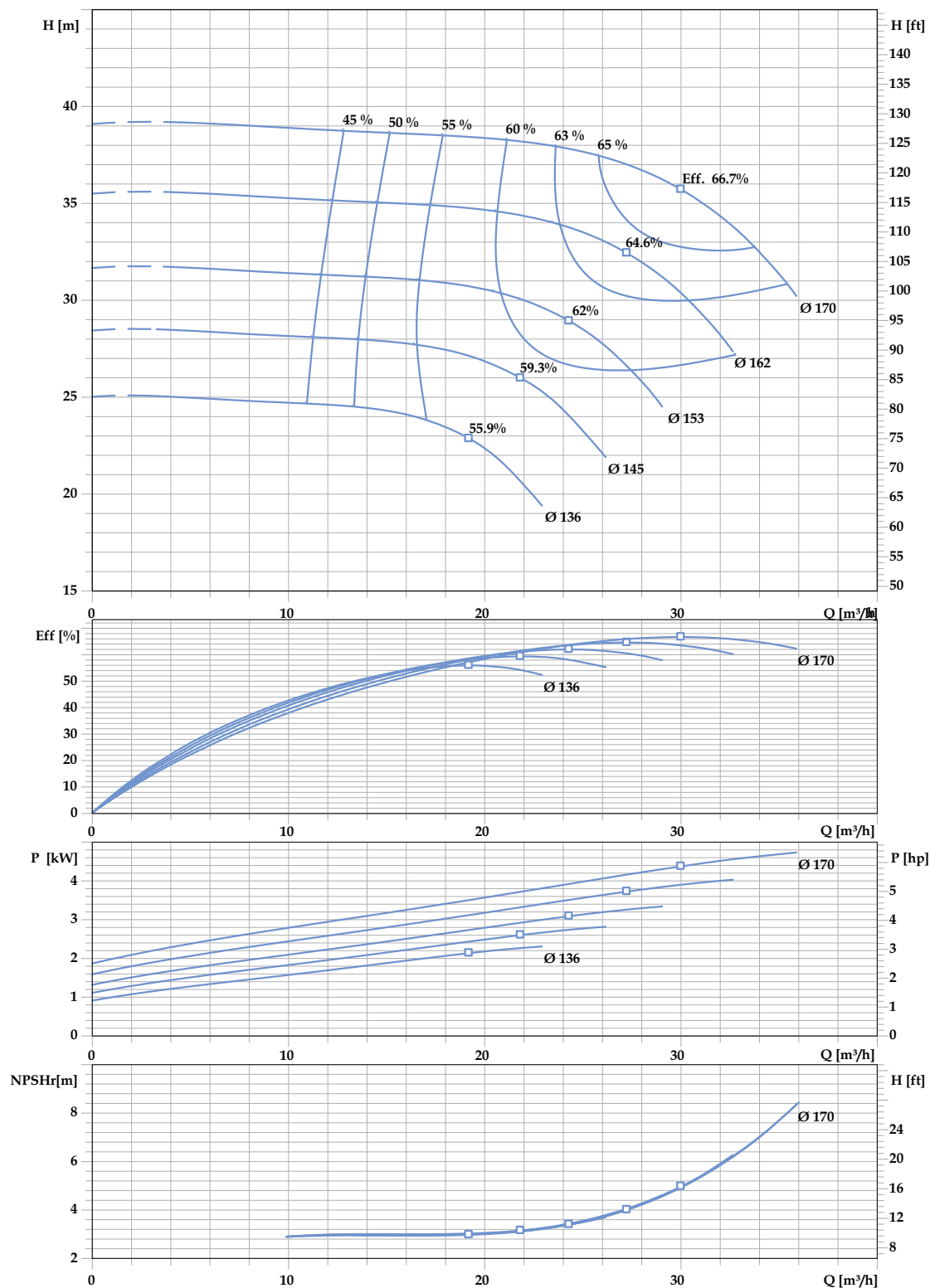
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Pump Model : ECW - 32/160

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Speed : 2900 rpm



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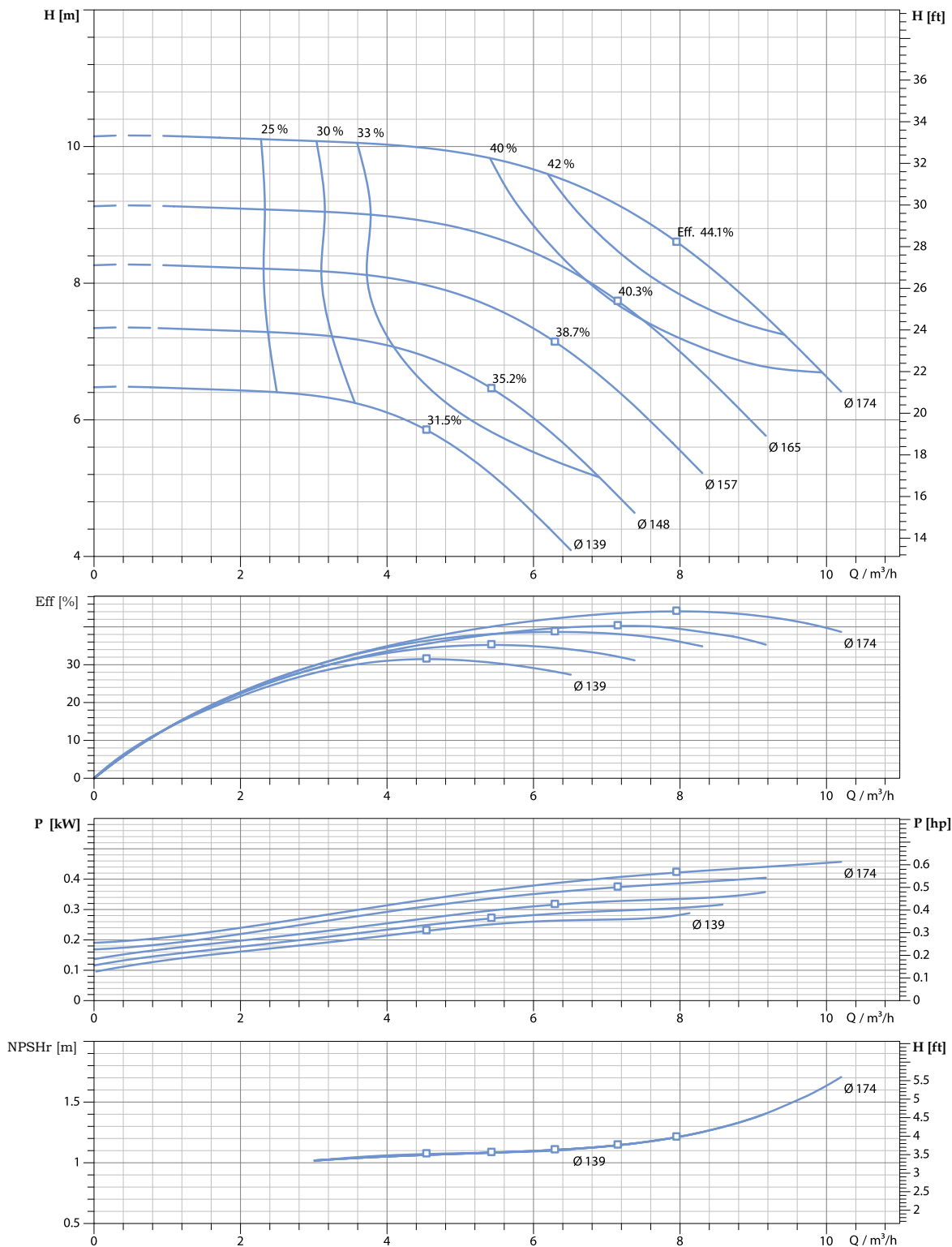
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Pump Model : ECW - 32/160E

Pump Size in mm : (Suc X Dis X Imp Size) 50 X 32 X 160E

Speed : 1450 rpm



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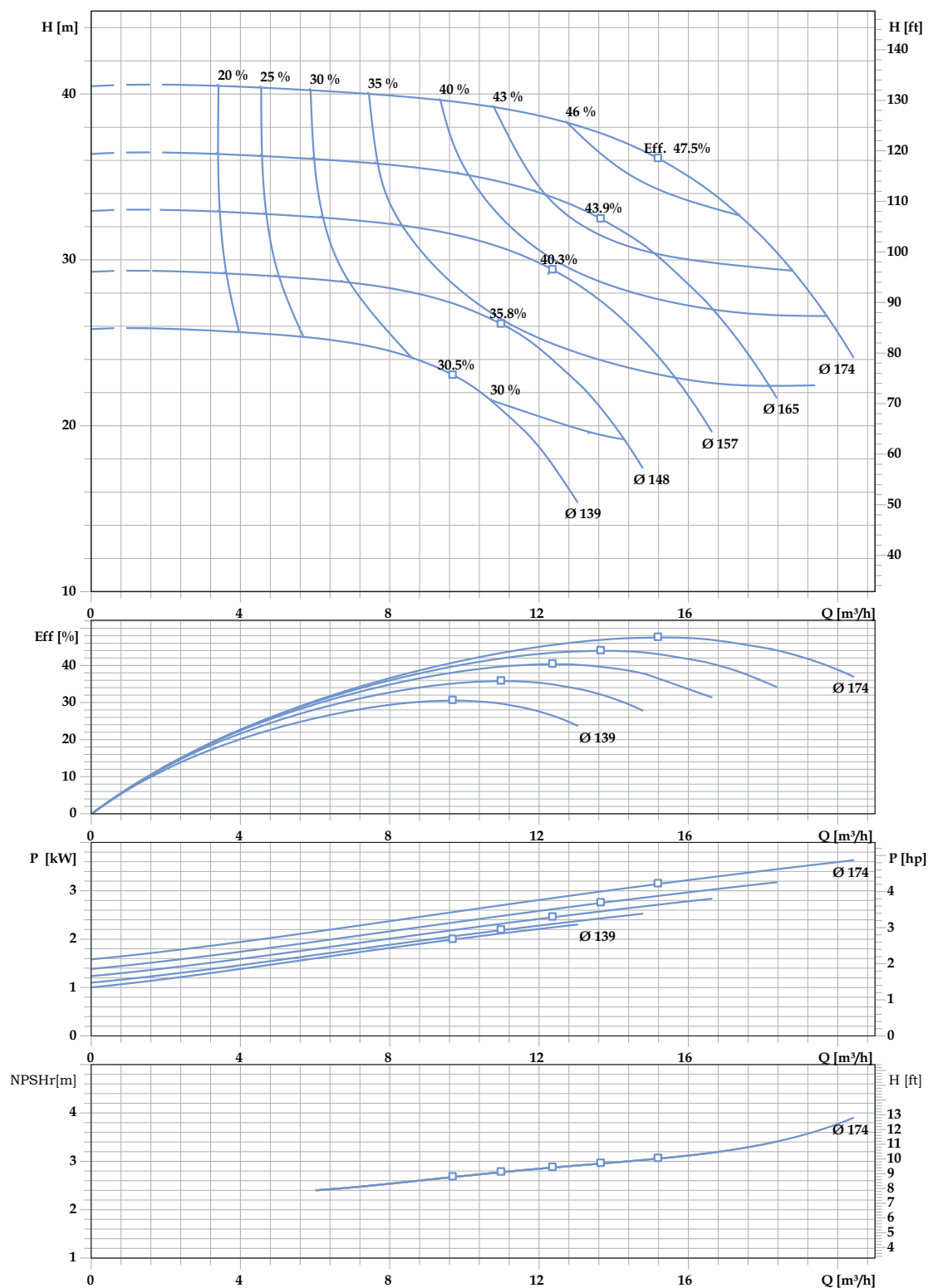
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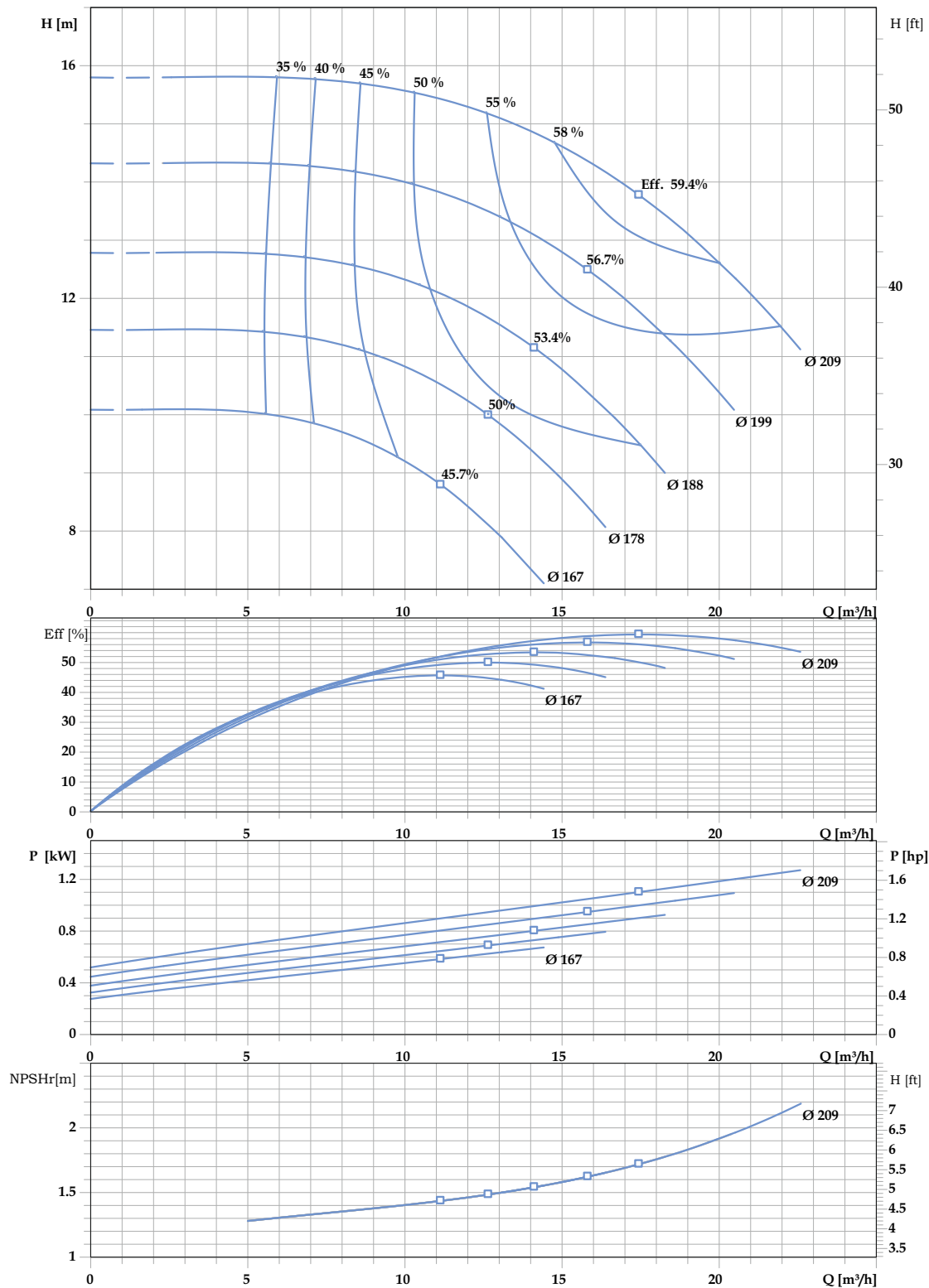
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Performance Curve

Pump Model : ECW - 32/200

Pump Size in mm : (Suc X Dis X Imp Size) 50 X 32 X 200

Speed : 1450 rpm



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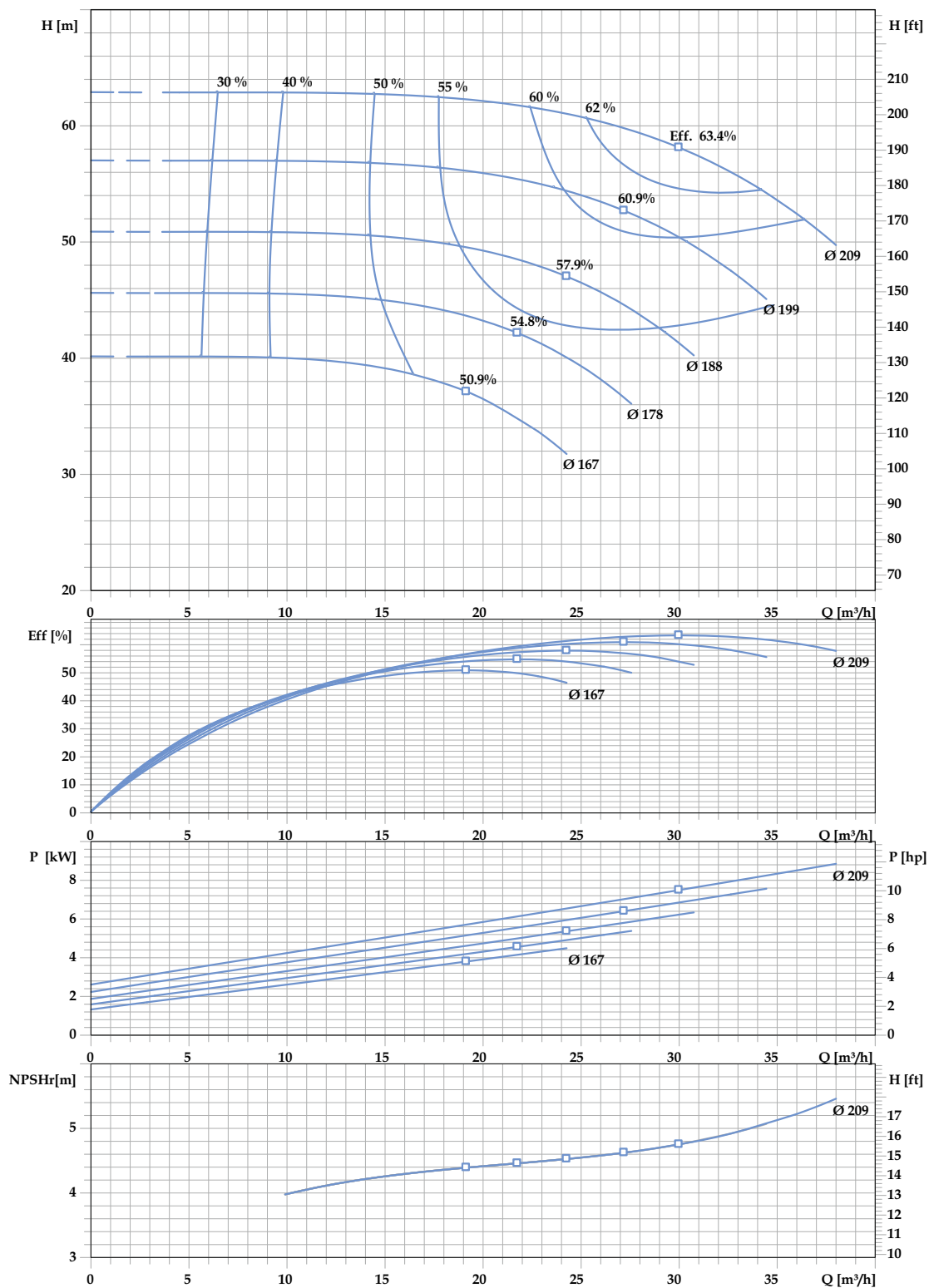
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Performance Curve

Pump Model : ECW - 32/200

Pump Size in mm : (Suc X Dis X Imp Size) 50 X 32 X 200

Speed : 2900 rpm



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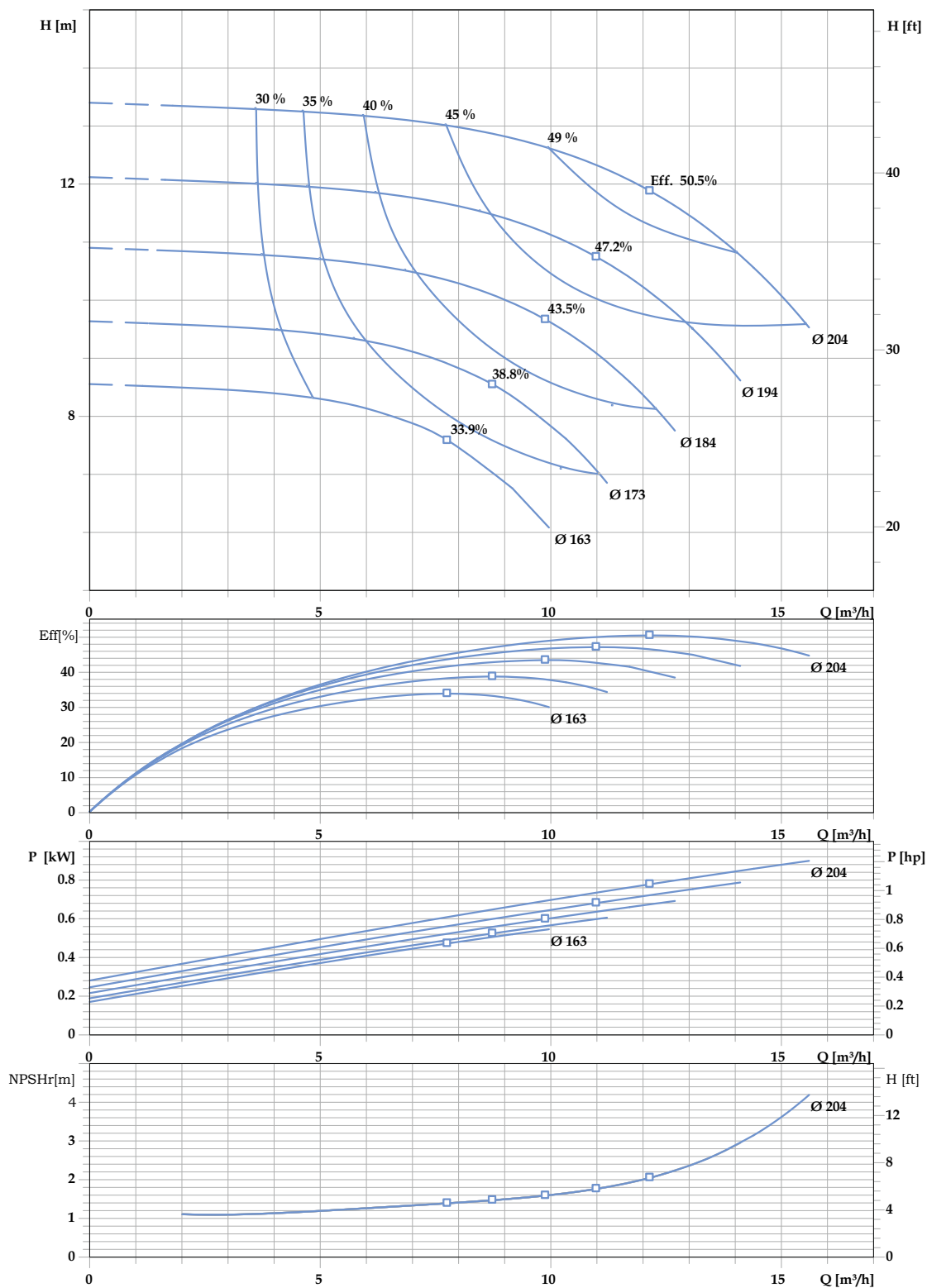
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Pump Size in mm : (Suc X Dis X Imp Size) 50 X 32 X 200E

Speed : 1450 rpm



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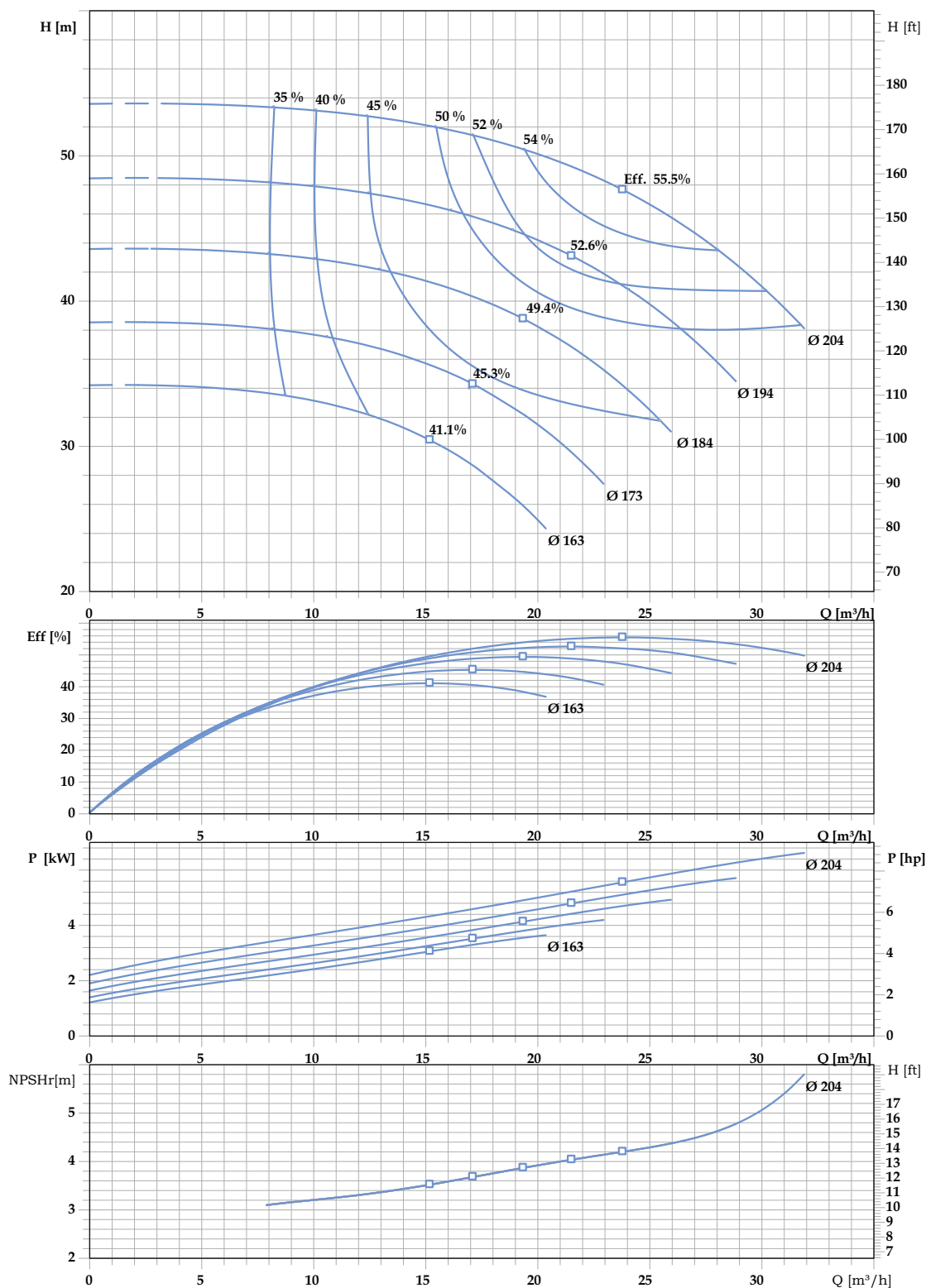
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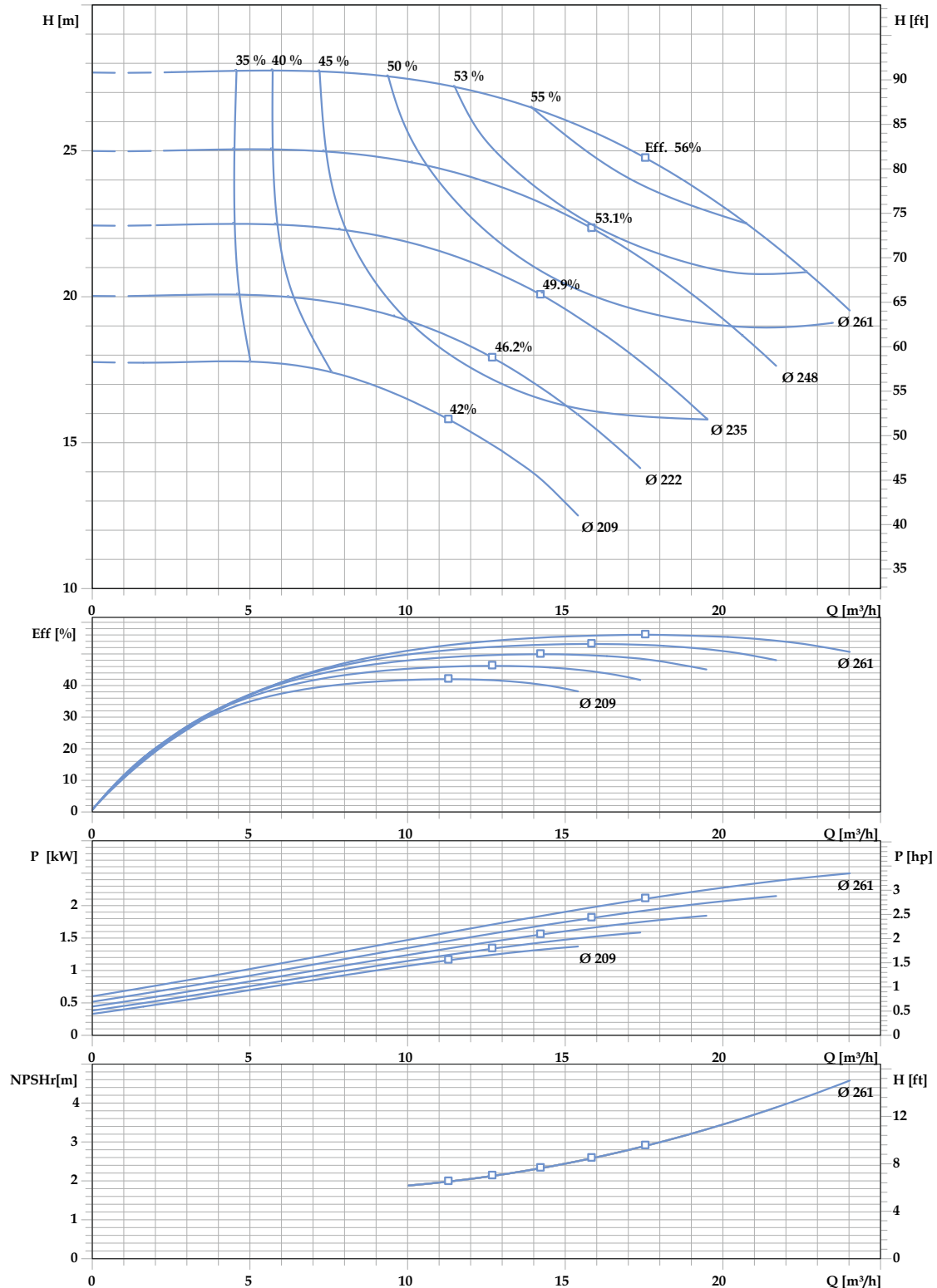
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Performance Curve

Pump Model : ECW - 32/250

Pump Size in mm : (Suc X Dis X Imp Size) 50 X 32 X 250

Speed : 1450 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
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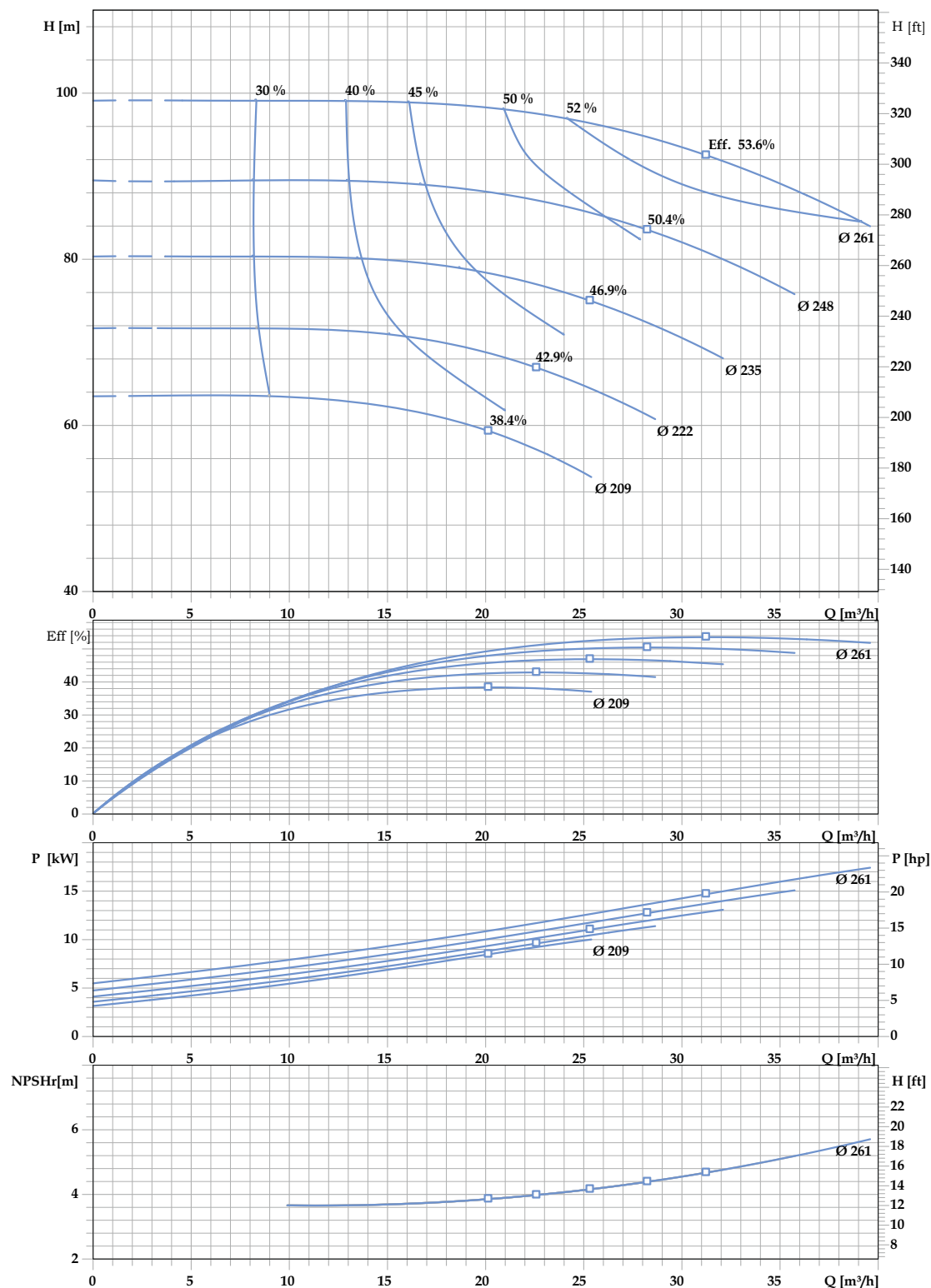
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Pump Model : ECW - 32/250

Pump Size in mm : (Suc X Dis X Imp Size) 50 X 32 X 250

Speed : 2900 rpm



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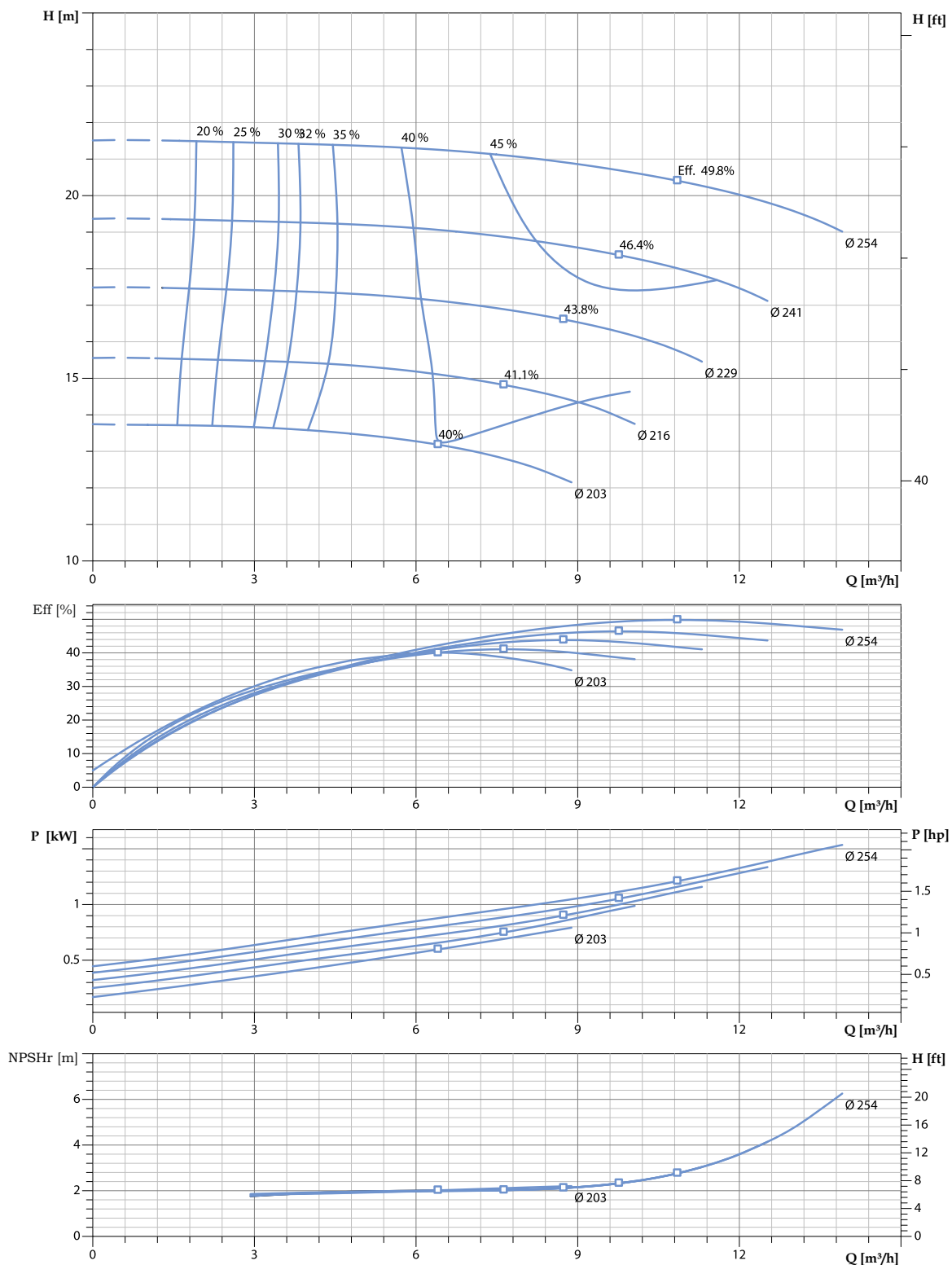
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Pump Model : ECW - 32/250E

Pump Size in mm : (Suc X Dis X Imp Size) 50 X 32 X 250E

Speed : 1450 rpm



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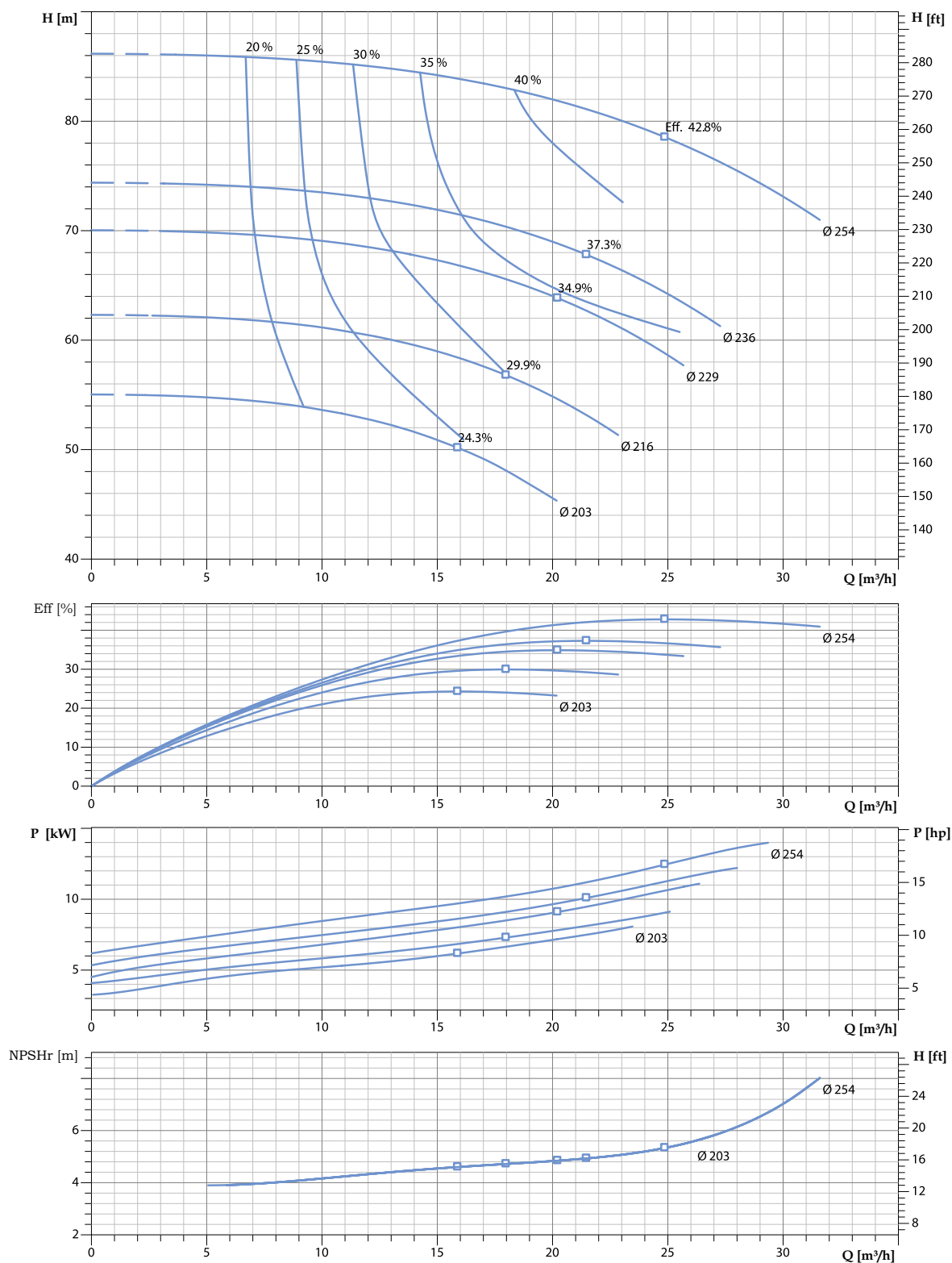
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Pump Size in mm : (Suc X Dis X Imp Size) 50 X 32 X 250E

Speed : 2900 rpm



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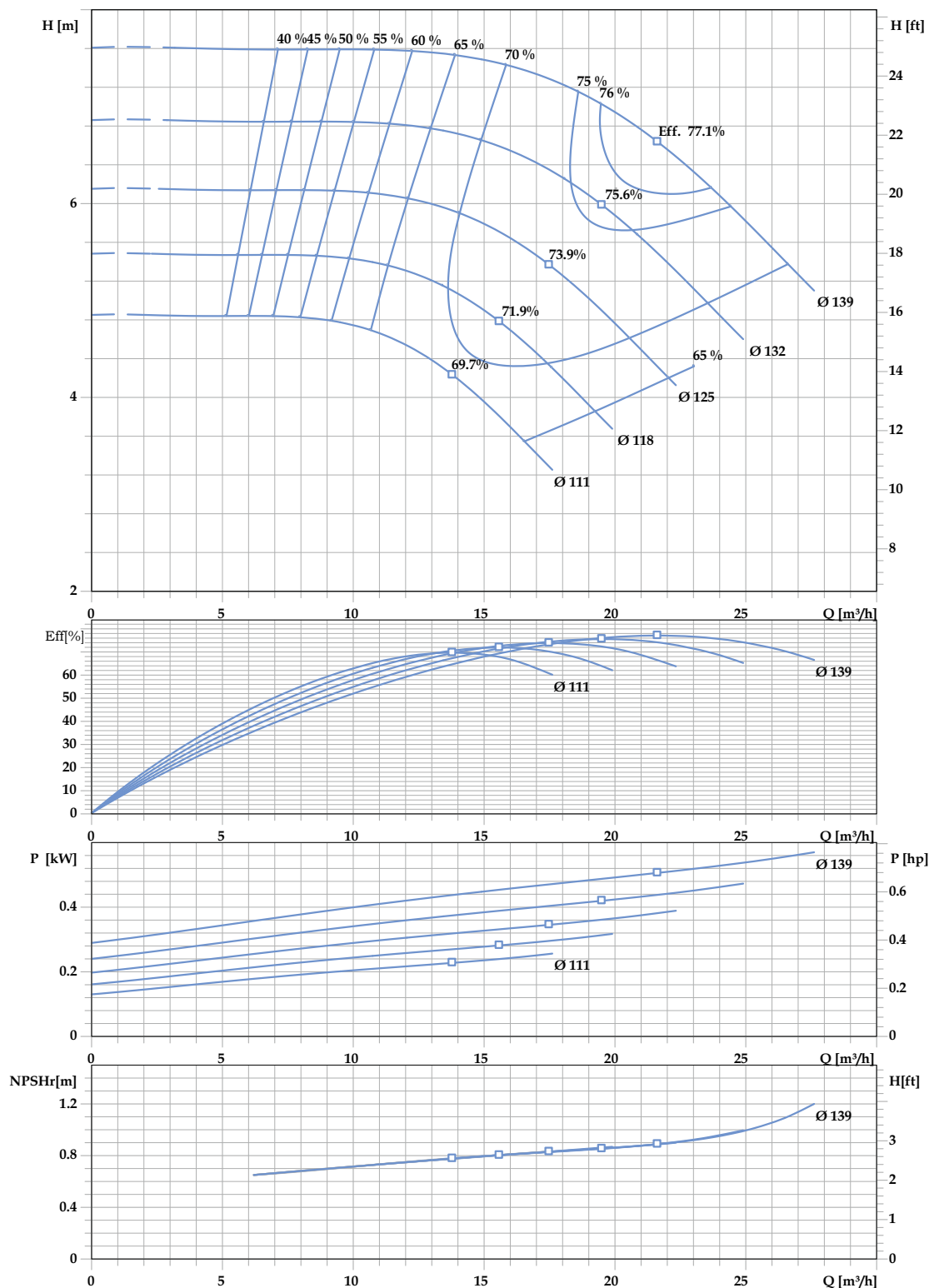
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Performance Curve

Pump Model : ECW - 40/125

Pump Size in mm : (Suc X Dis X Imp Size) 65 X 40 X 125

Speed : 1450 rpm



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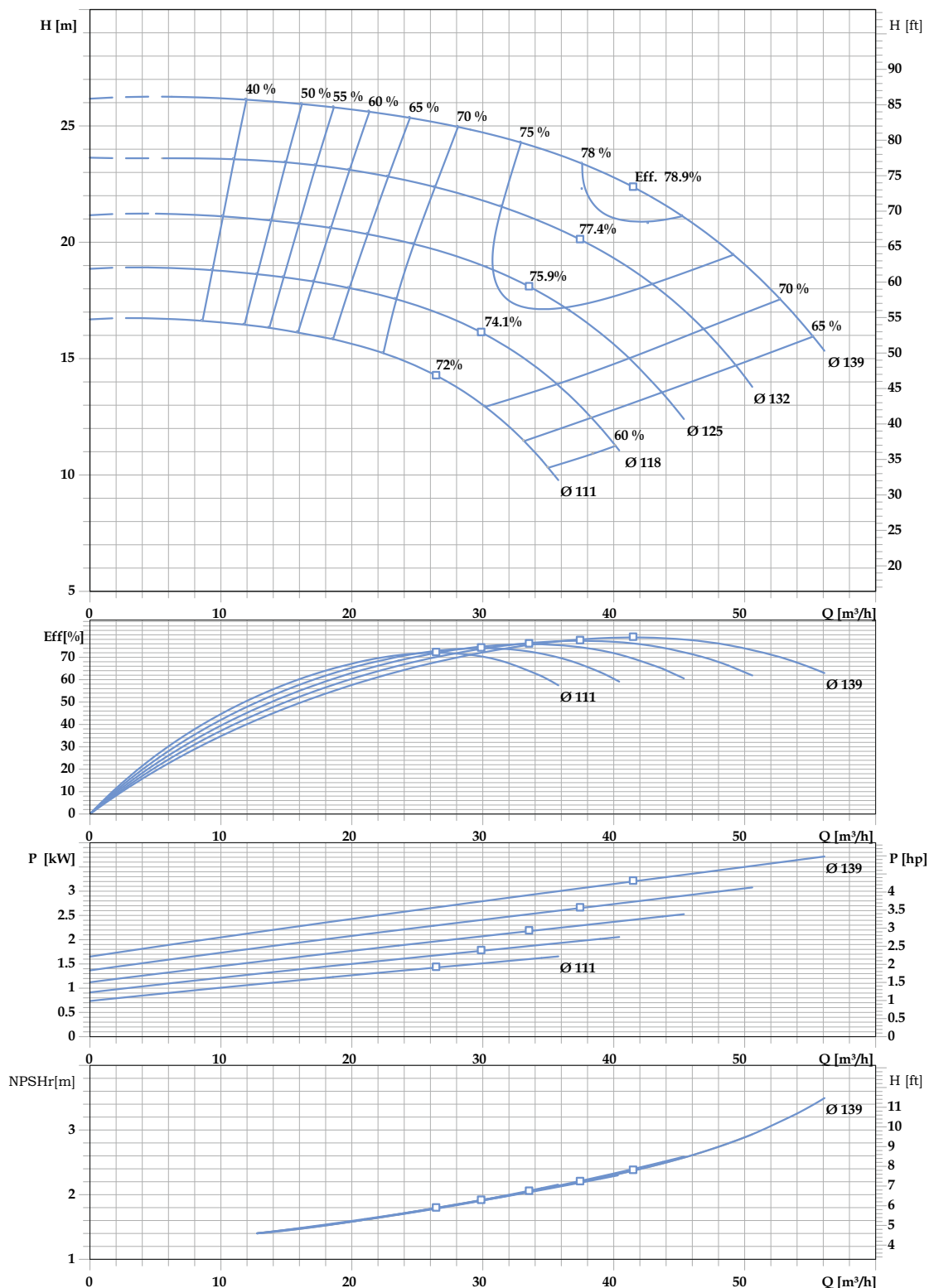
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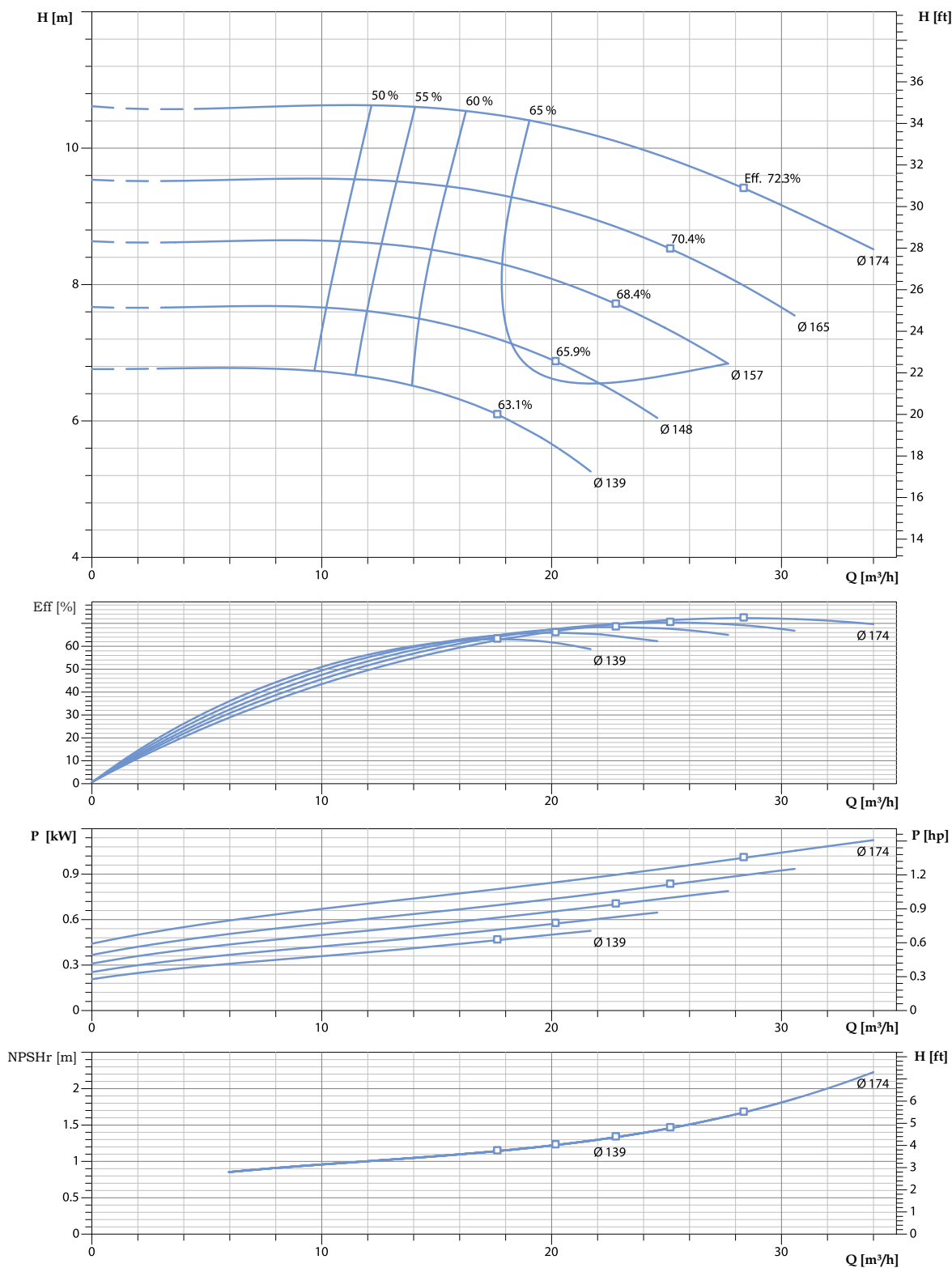
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Performance Curve

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Speed : 1450 rpm



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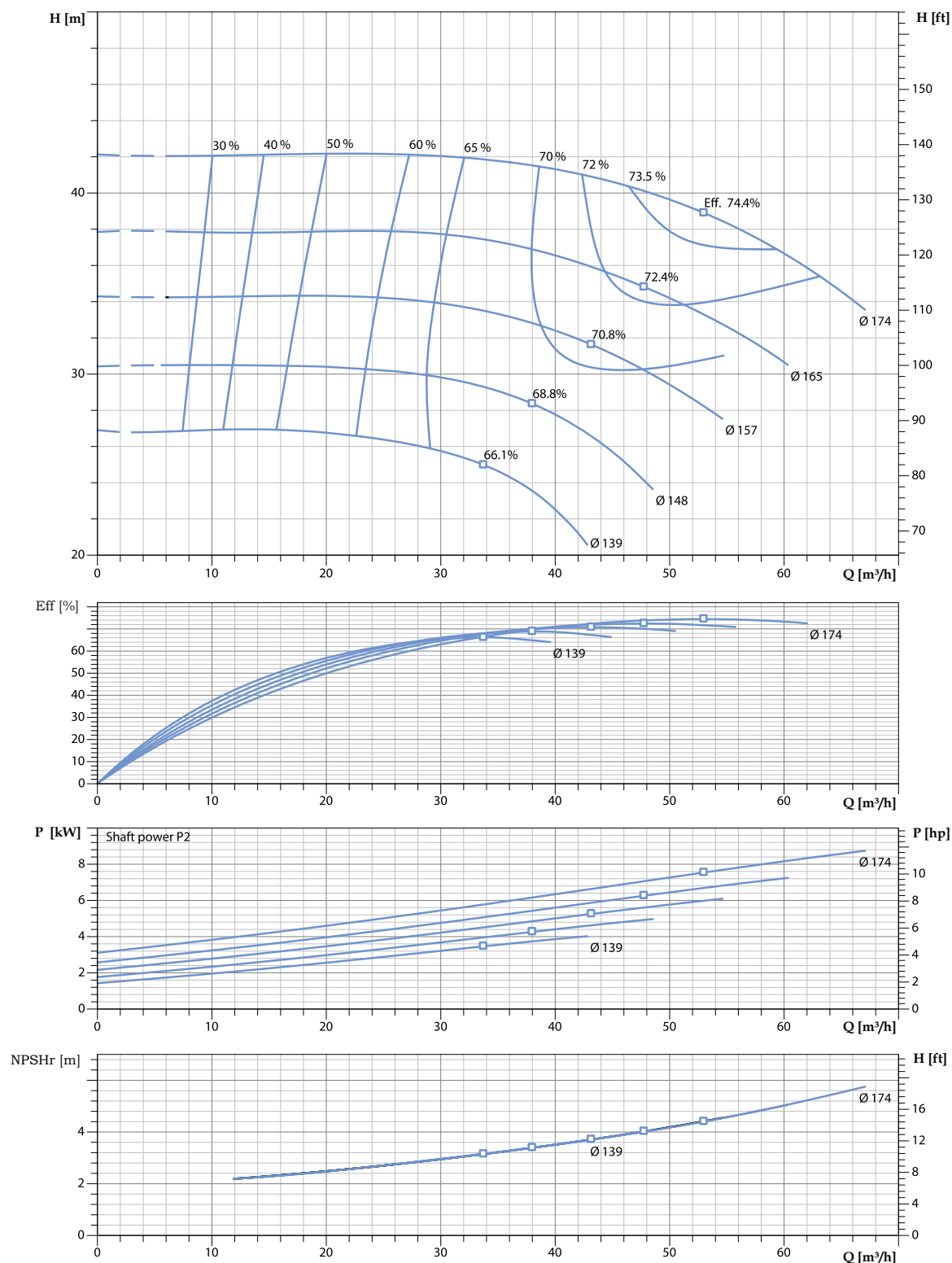
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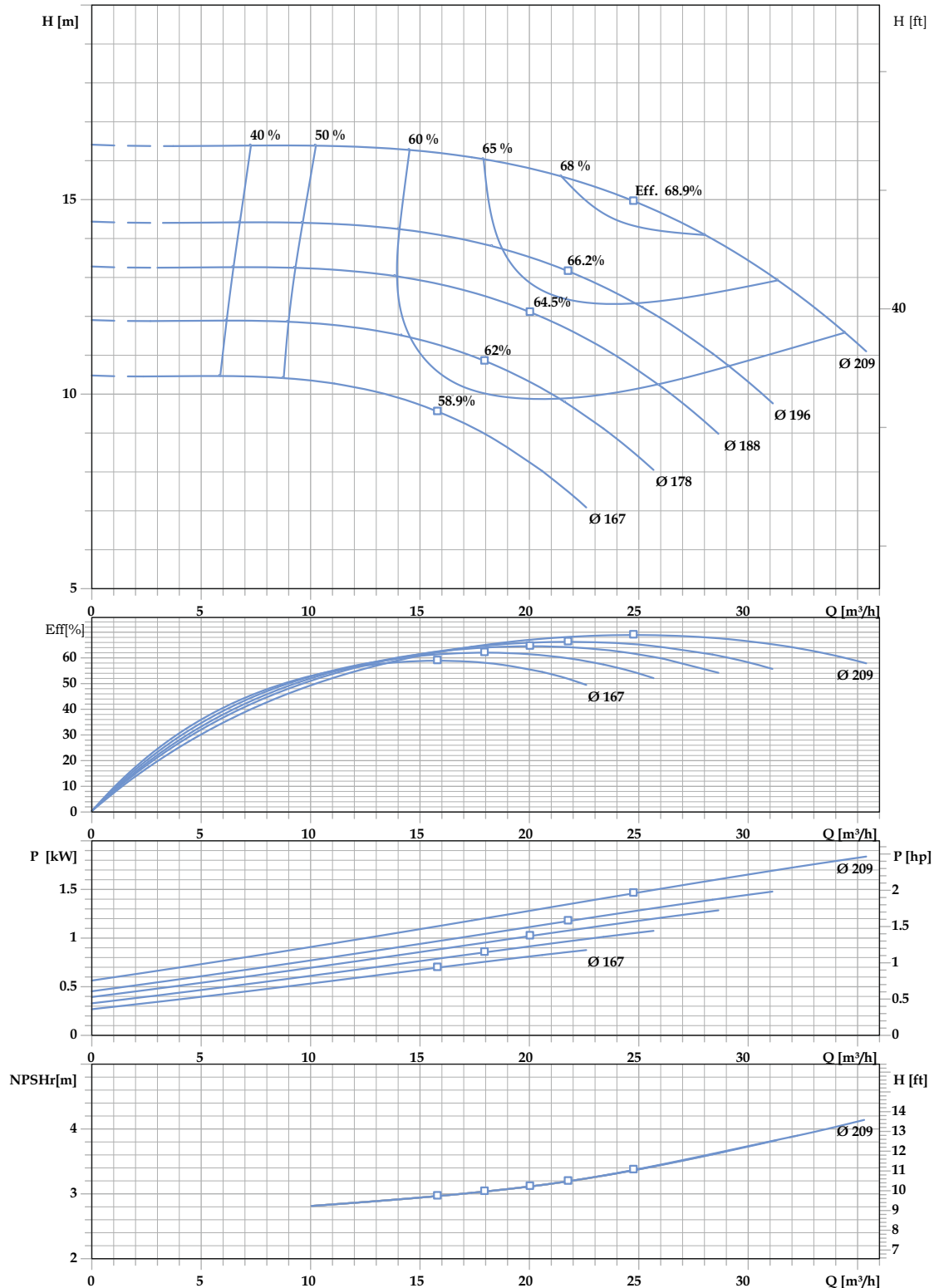
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Performance Curve

Pump Model : ECW - 40/200

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Speed : 1450 rpm



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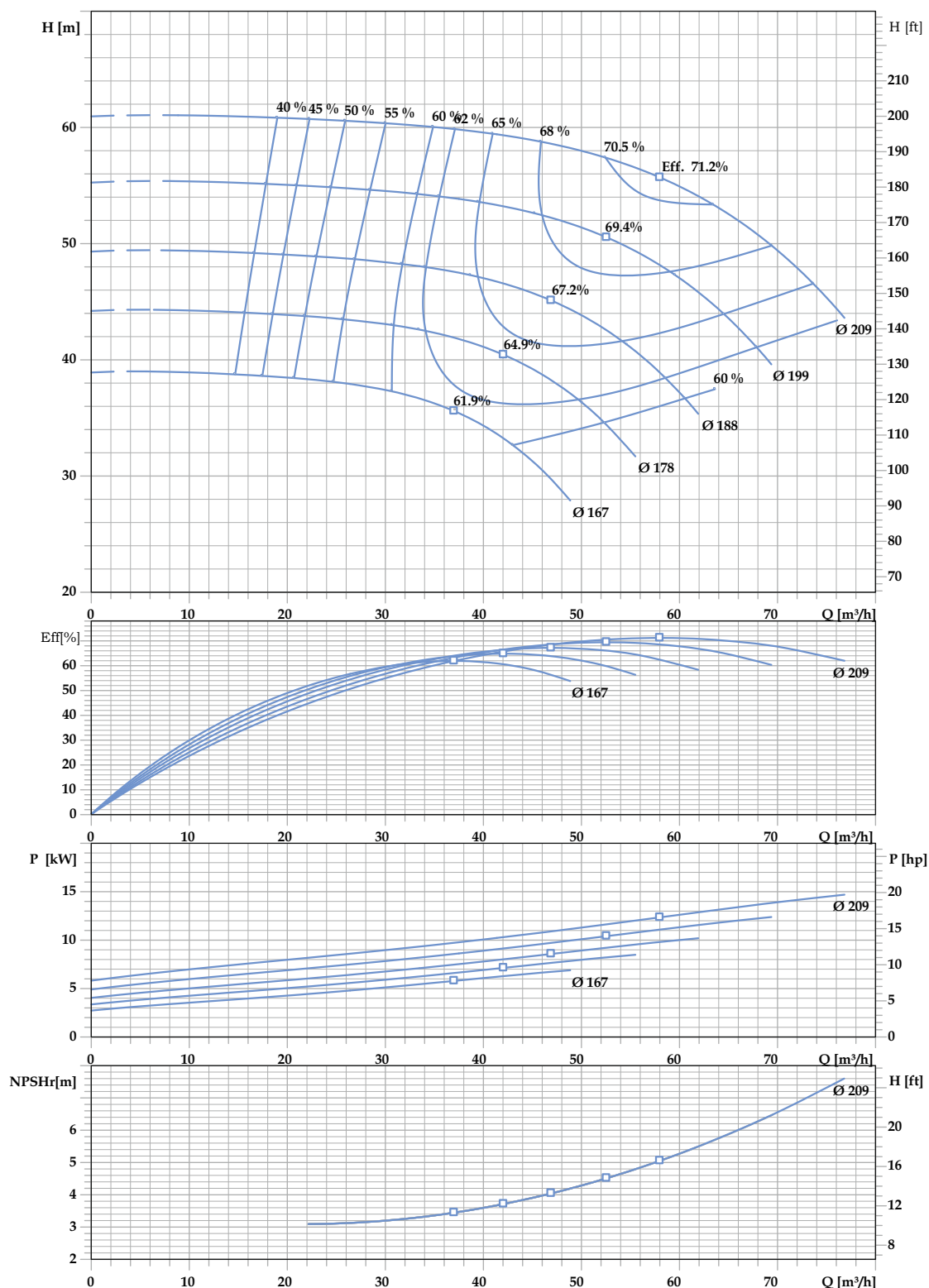
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Speed : 2900 rpm



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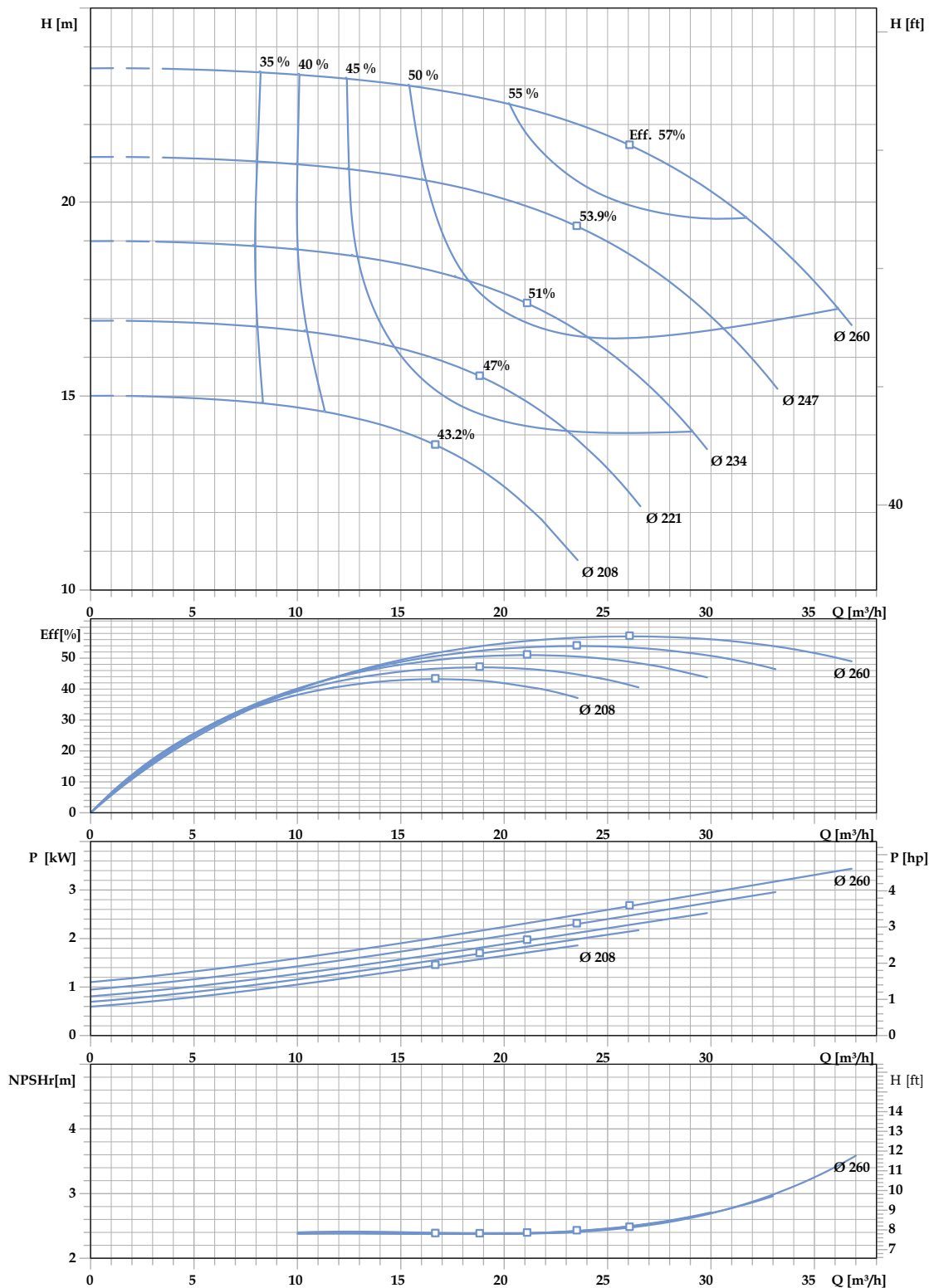
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Performance Curve

Pump Model : ECW - 40/250

Pump Size in mm : (Suc X Dis X Imp Size) 65 X 40 X 250

Speed : 1450 rpm



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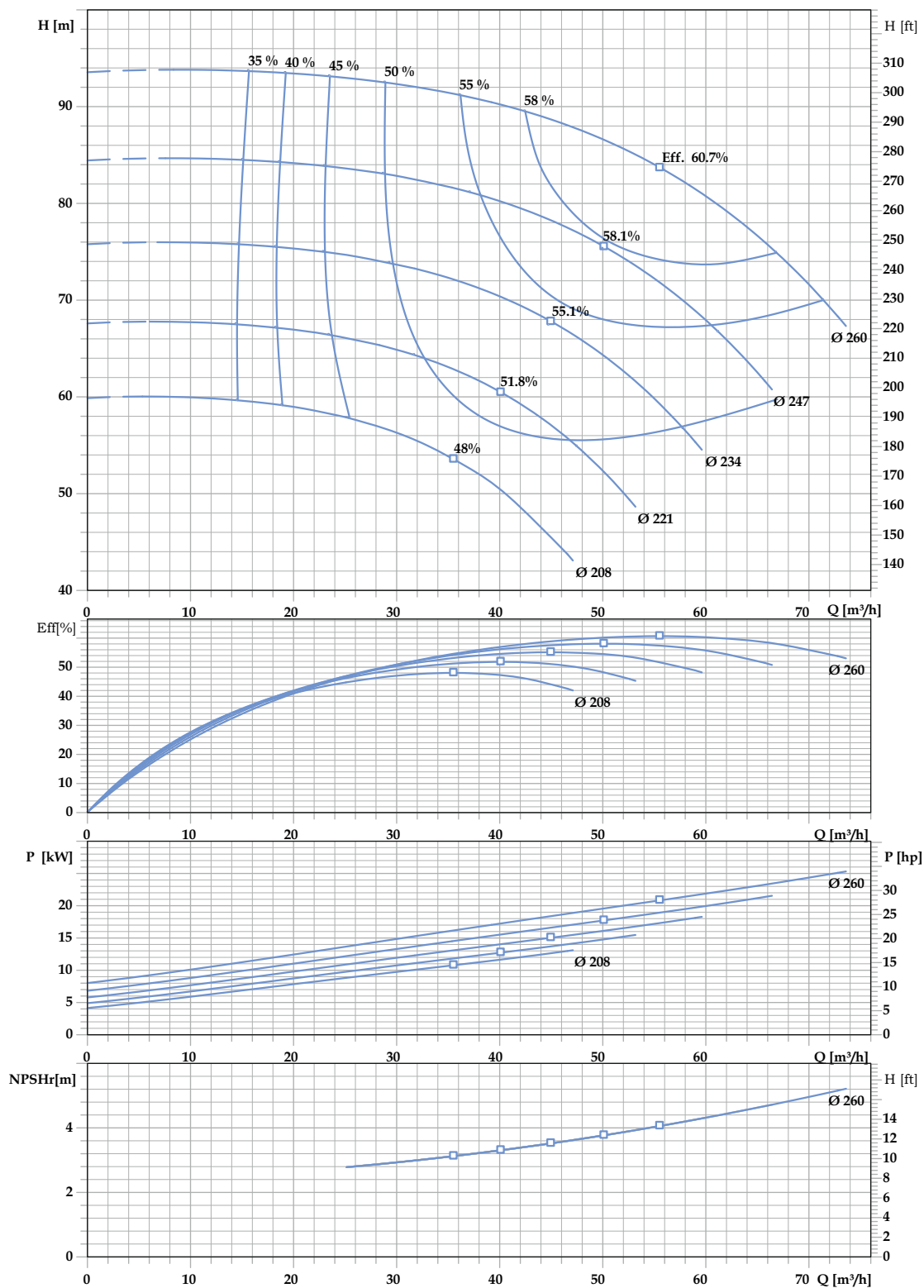
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Pump Size in mm : (Suc X Dis X Imp Size) 65 X 40 X 250

Speed : 2900 rpm



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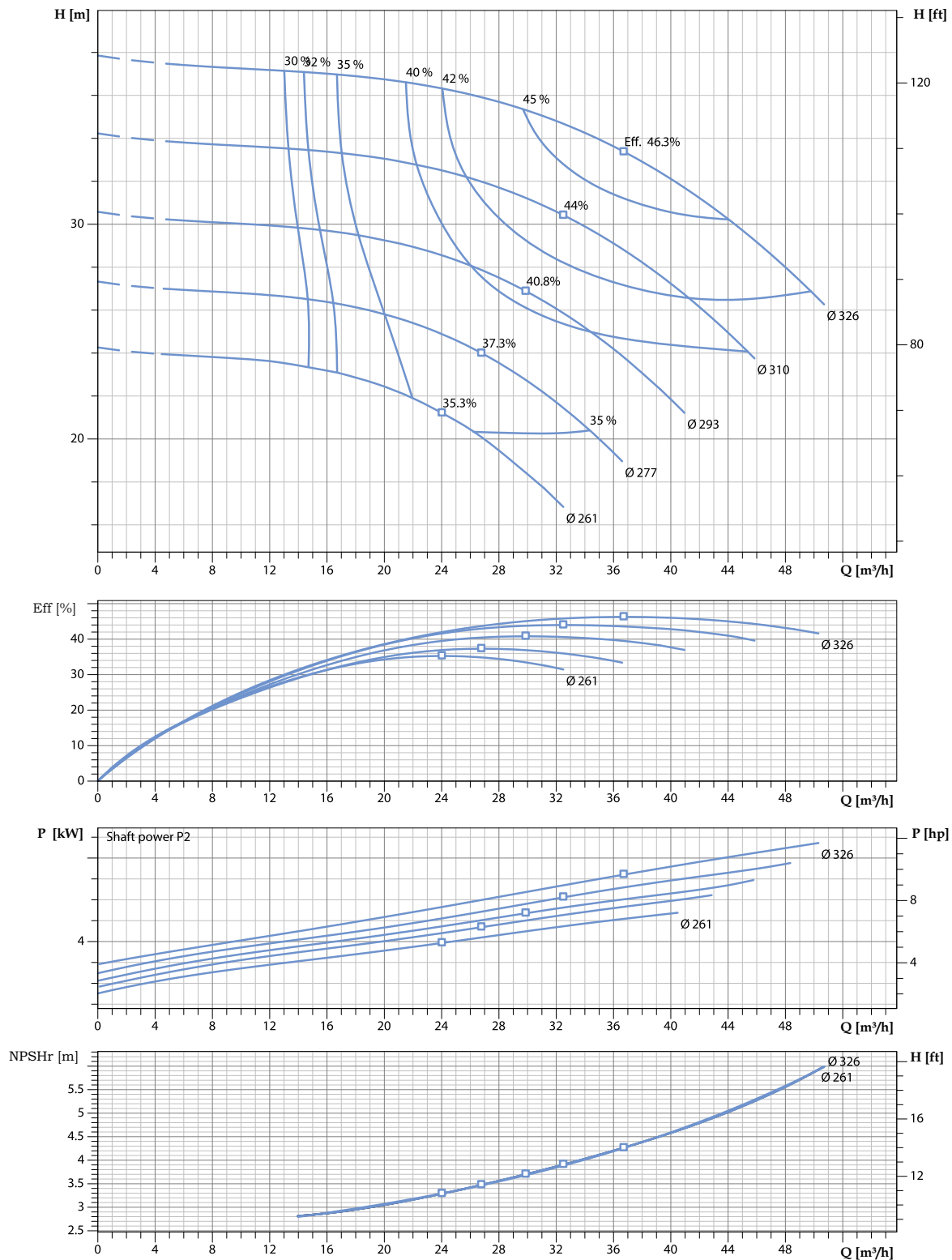
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Performance Curve

Pump Model : ECW - 40/315

Pump Size in mm : (Suc X Dis X Imp Size) 65 X 40 X 315

Speed : 1450 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
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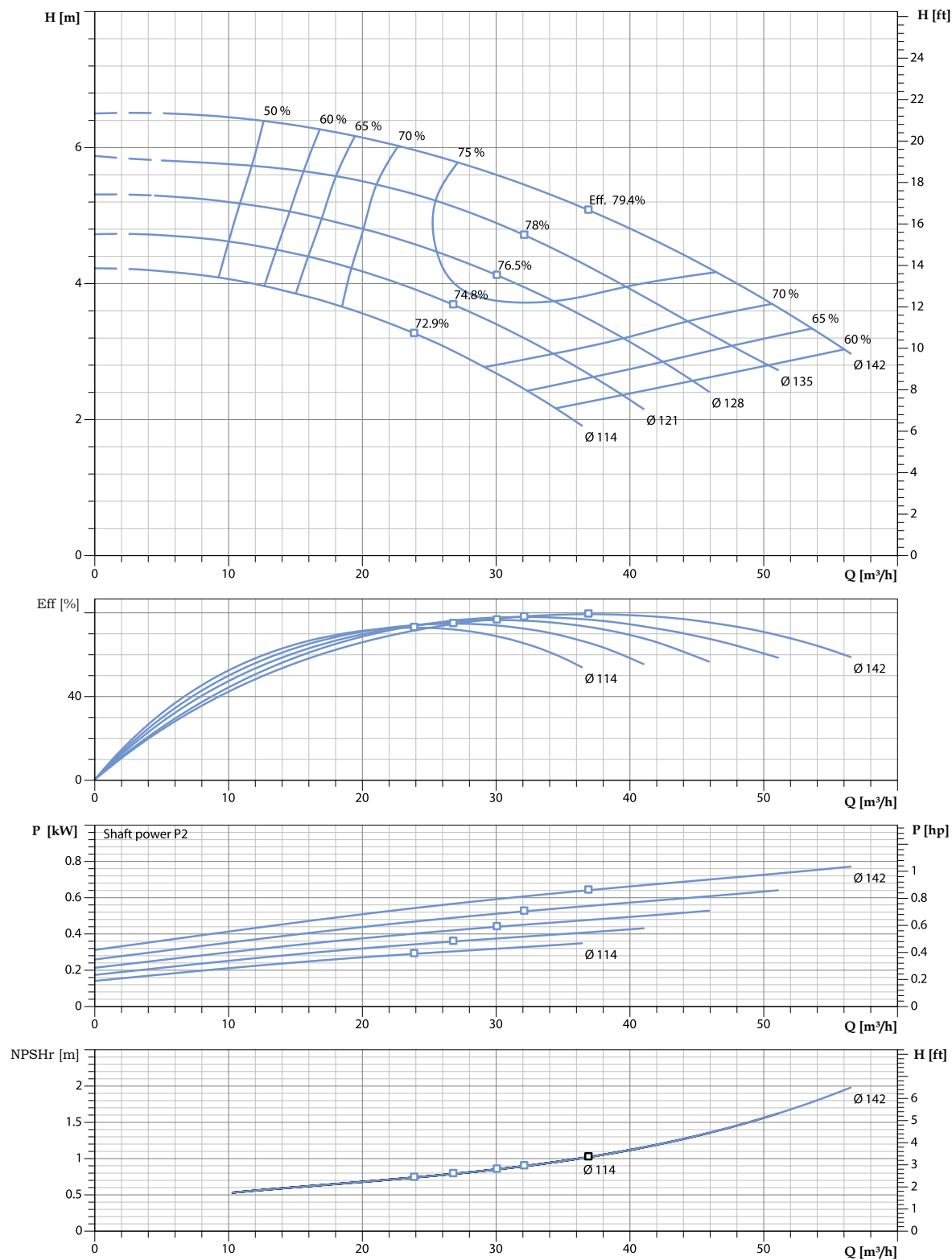
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Performance Curve

Pump Model : ECW - 50/125

Pump Size in mm : (Suc X Dis X Imp Size) 65 X 50 X 125

Speed : 1450 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
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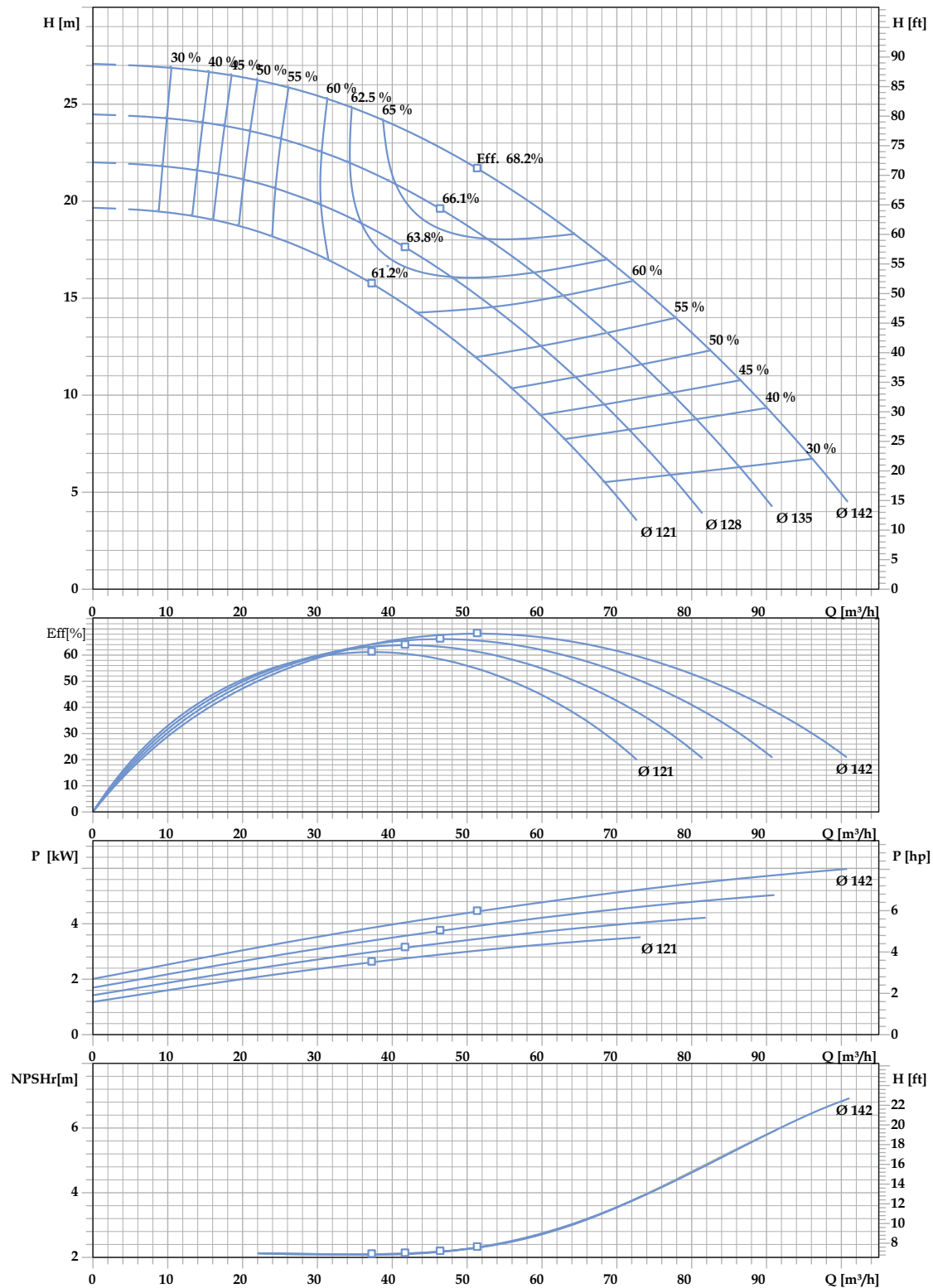
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Pump Model : ECW - 50/125

Pump Size in mm : (Suc X Dis X Imp Size) 65 X 50 X 125

Speed : 2900 rpm



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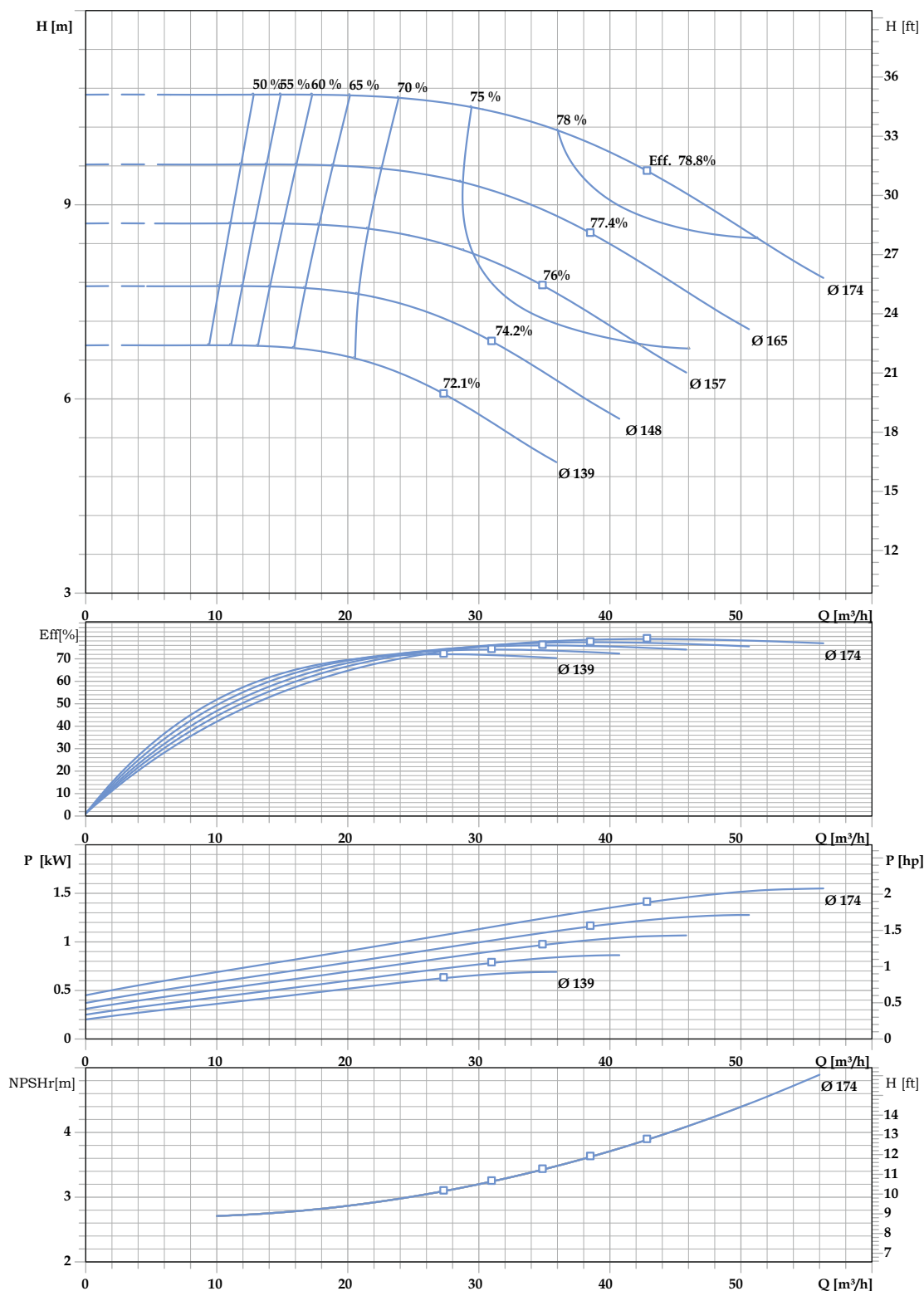
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Performance Curve

Pump Model : ECW - 50/160

Pump Size in mm : (Suc X Dis X Imp Size) 65 X 50 X 160

Speed : 1450 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
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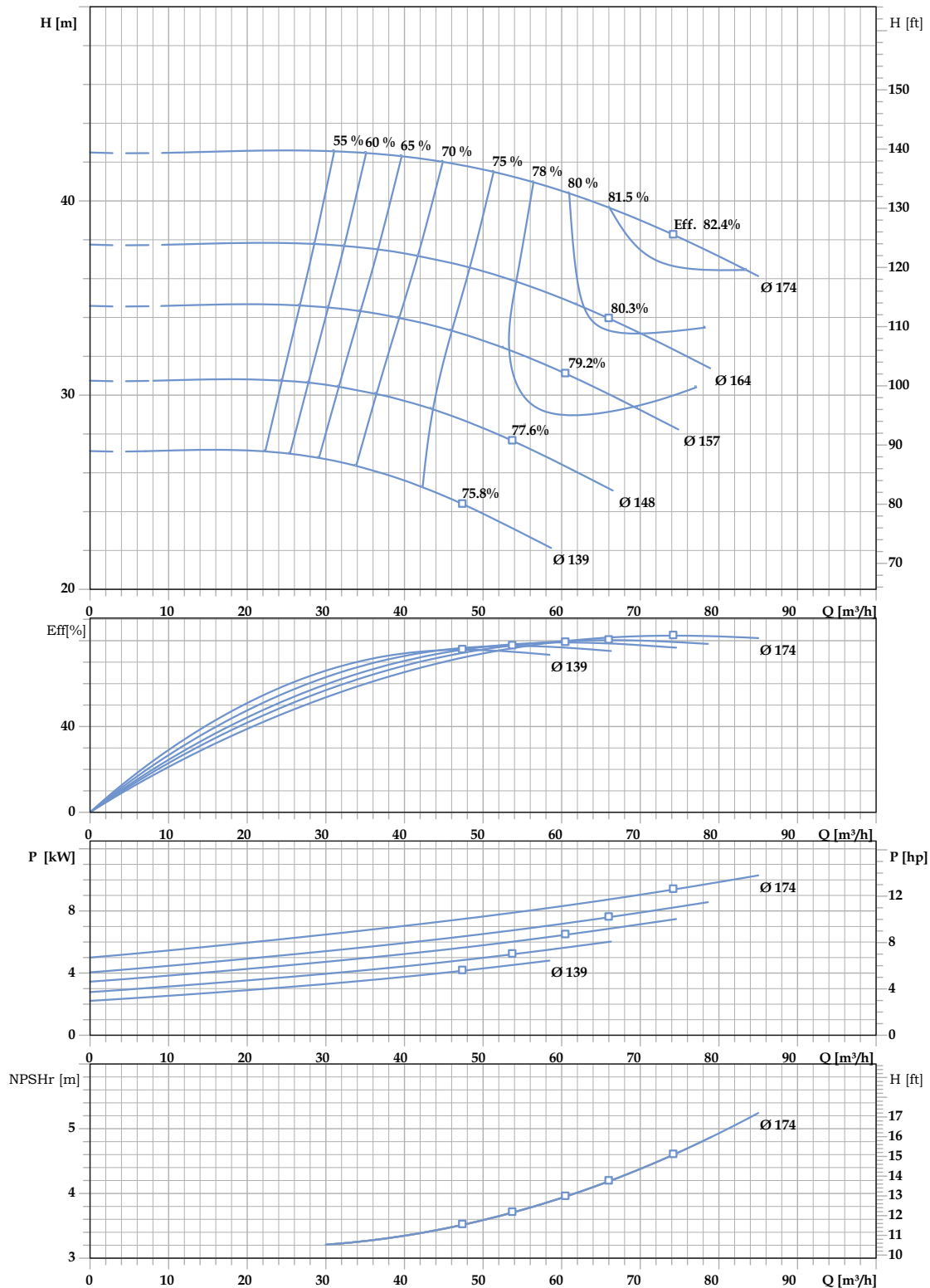
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Pump Model : ECW - 50/160

Pump Size in mm : (Suc X Dis X Imp Size) 65 X 50 X 160

Speed : 2900 rpm



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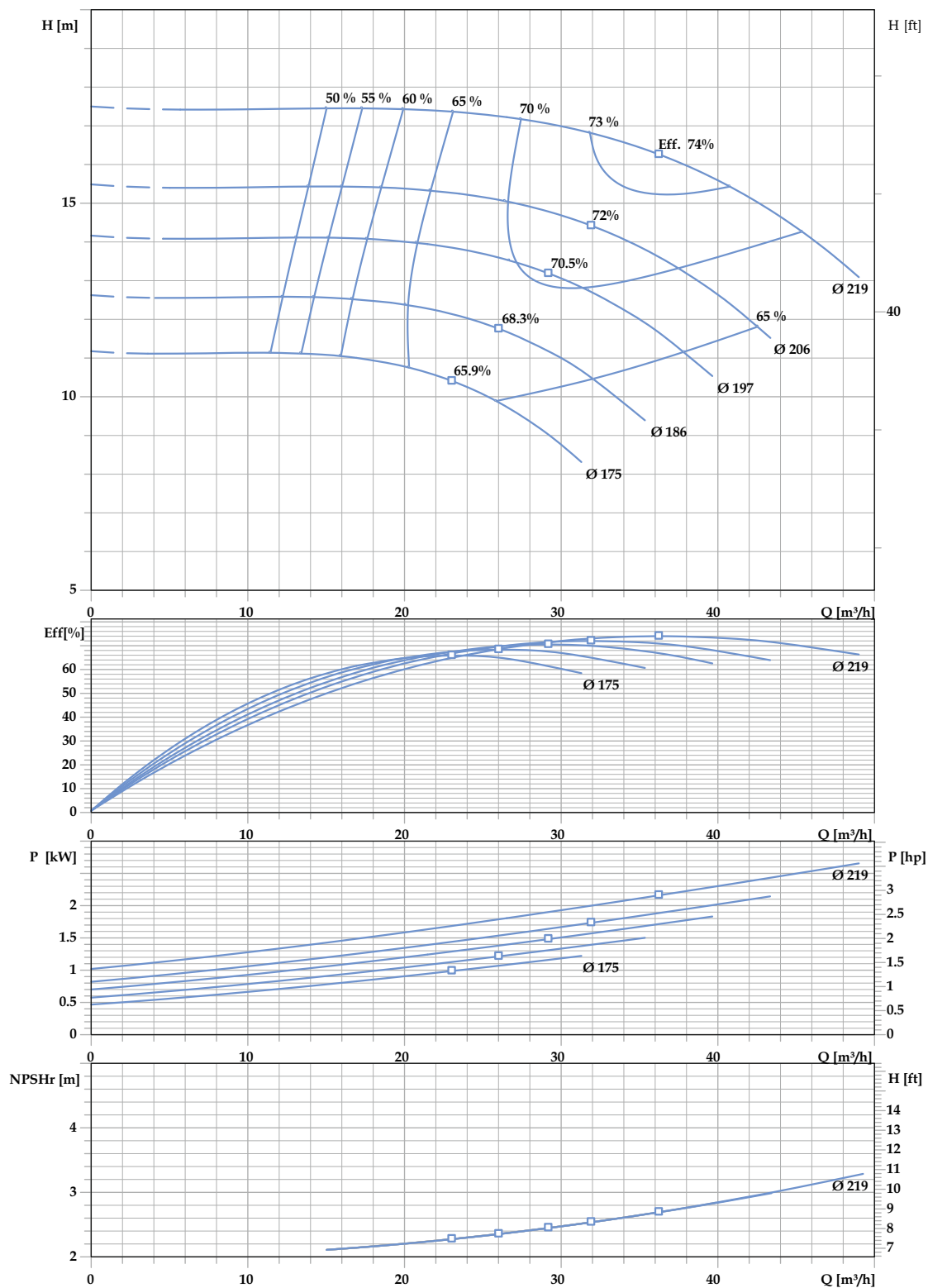
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Performance Curve

Pump Model : ECW - 50/200

Pump Size in mm : (Suc X Dis X Imp Size) 65 X 50 X 200

Speed : 1450 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
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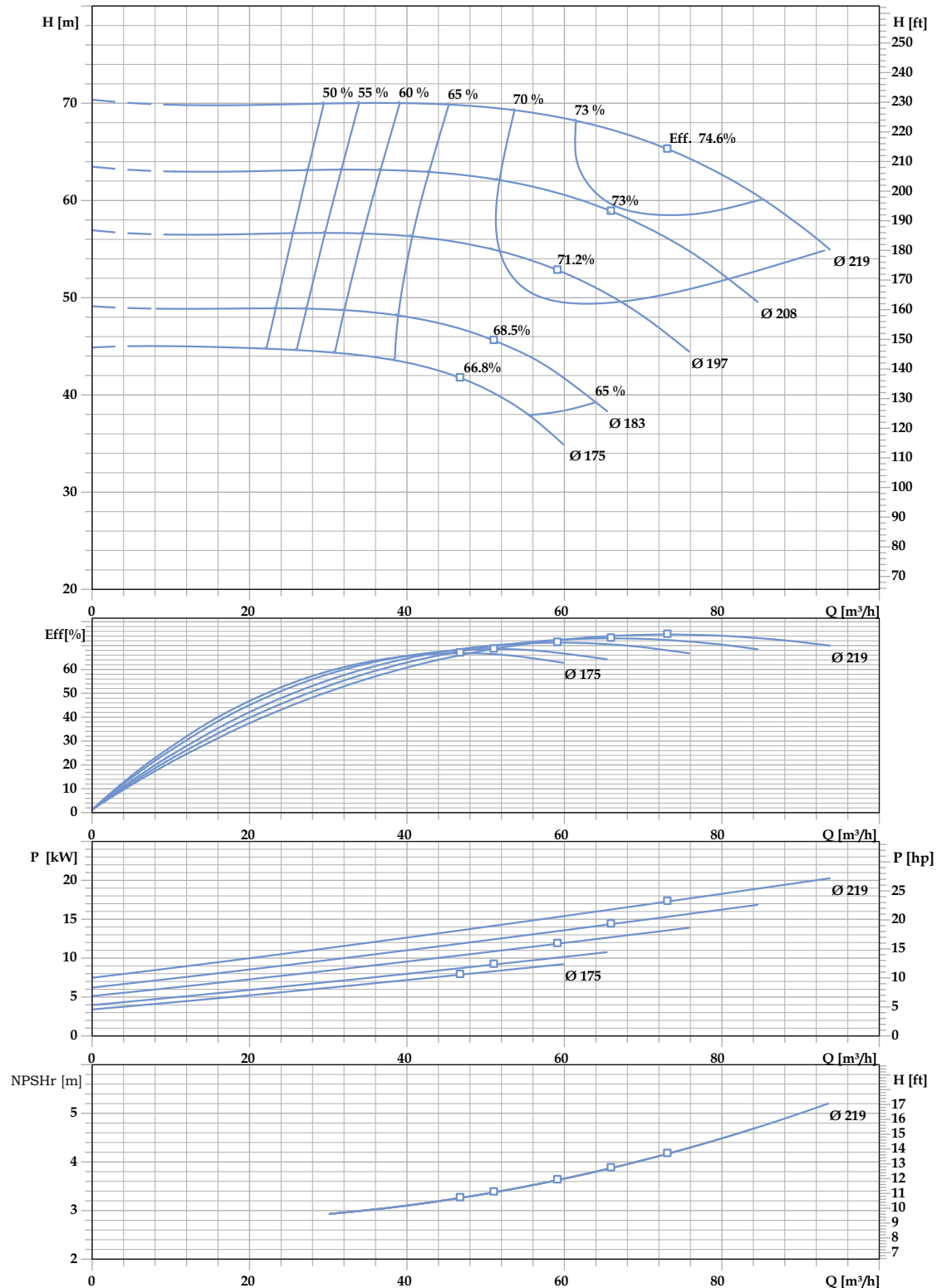
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Performance Curve

Pump Model : ECW - 50/200

Pump Size in mm : (Suc X Dis X Imp Size) 65 X 50 X 200

Speed : 2900 rpm



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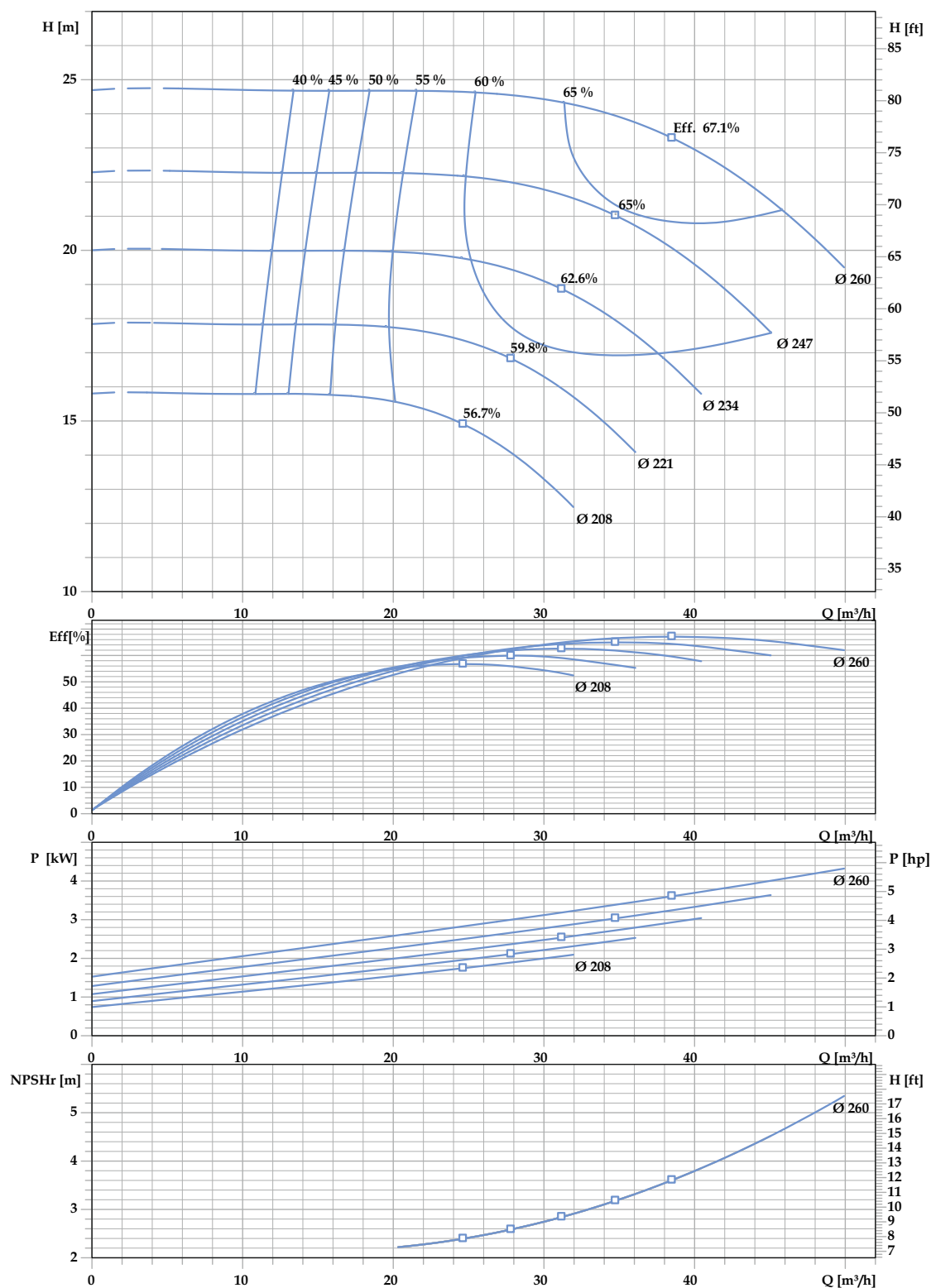
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Performance Curve

Pump Model : ECW - 50/250

Pump Size in mm : (Suc X Dis X Imp Size) 65 X 50 X 250

Speed : 1450 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
For safety kindly consider a margin of 0.5m higher of NPSH.

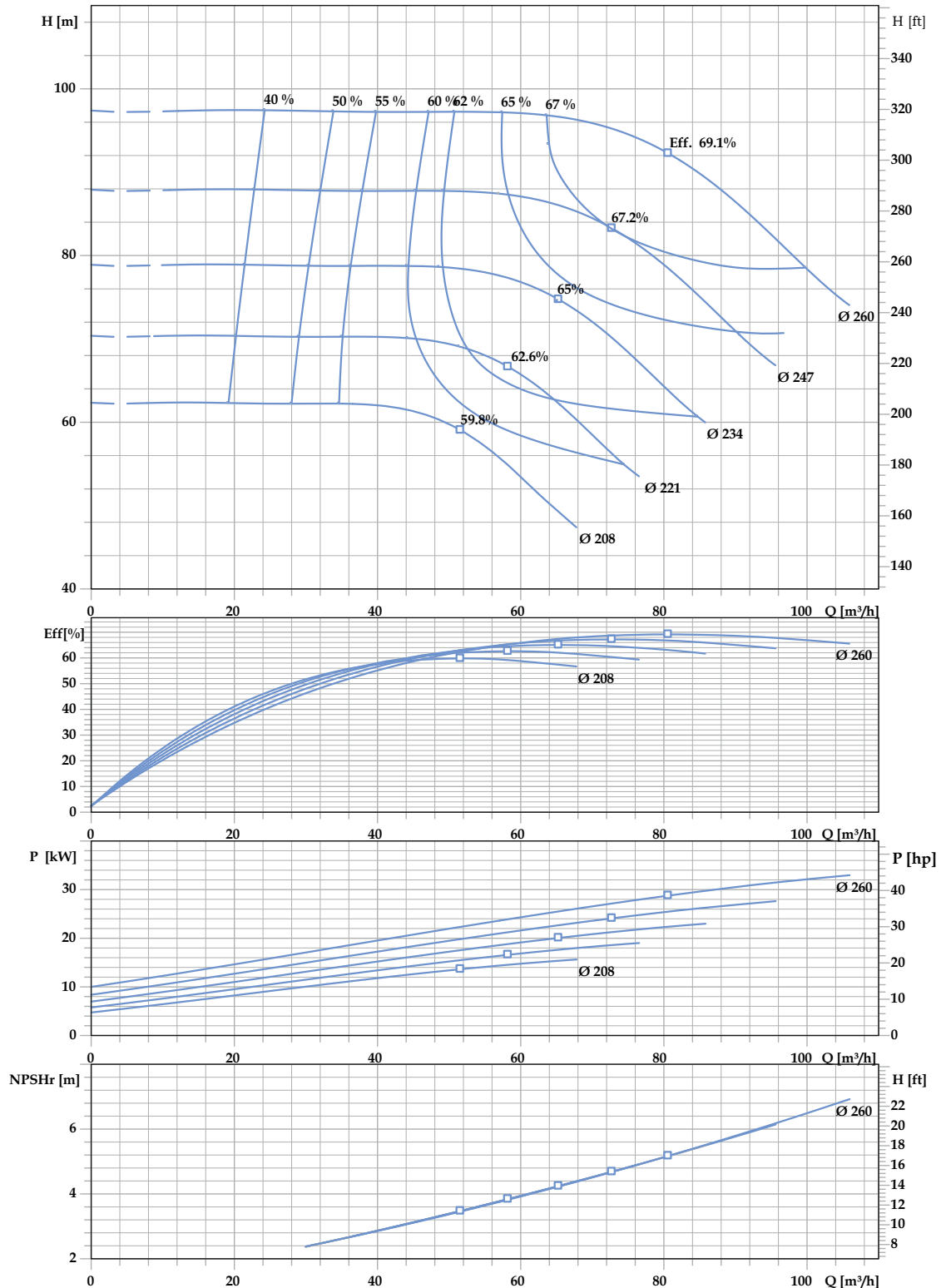
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

Performance Curve

Pump Model : ECW - 50/250

Pump Size in mm : (Suc X Dis X Imp Size) 65 X 50 X 250

Speed : 2900 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
For safety kindly consider a margin of 0.5m higher of NPSH.

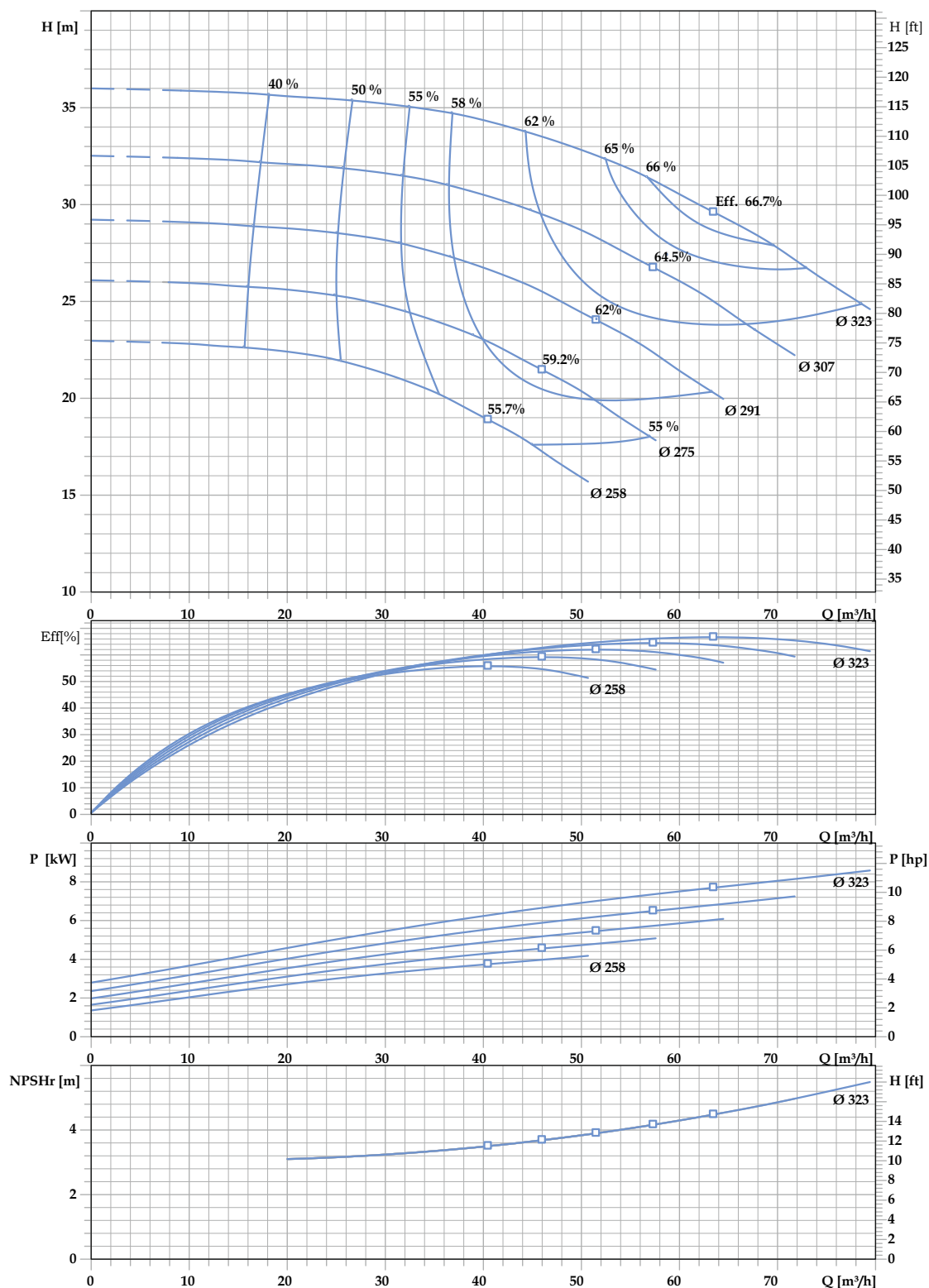
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

Performance Curve

Pump Model : ECW - 50/315

Pump Size in mm : (Suc X Dis X Imp Size) 65 X 50 X 315

Speed : 1450 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
For safety kindly consider a margin of 0.5m higher of NPSH.

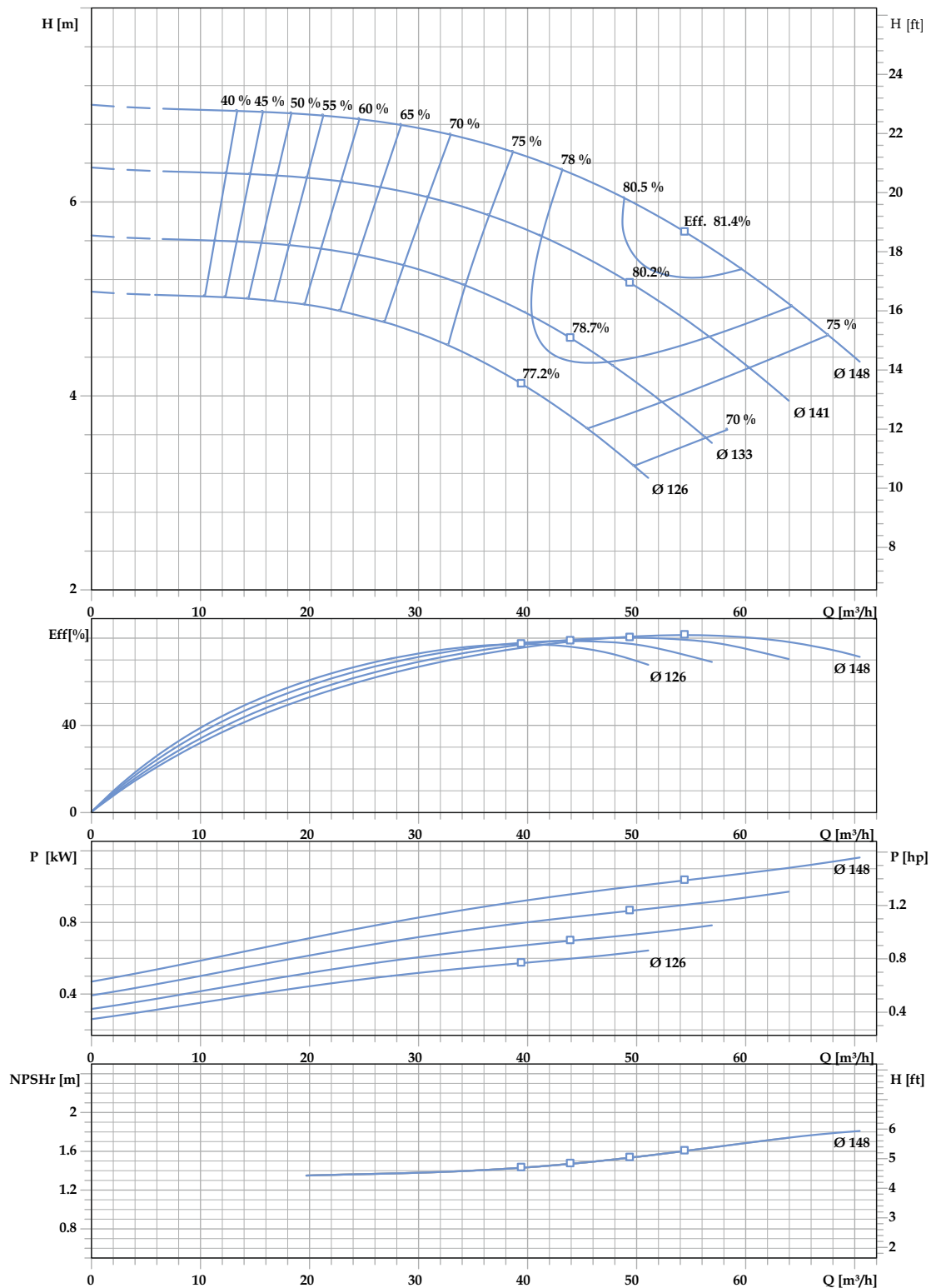
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

Performance Curve

Pump Model : ECW - 65/125

Pump Size in mm : (Suc X Dis X Imp Size) 80 X 65 X 125

Speed : 1450 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
For safety kindly consider a margin of 0.5m higher of NPSH.

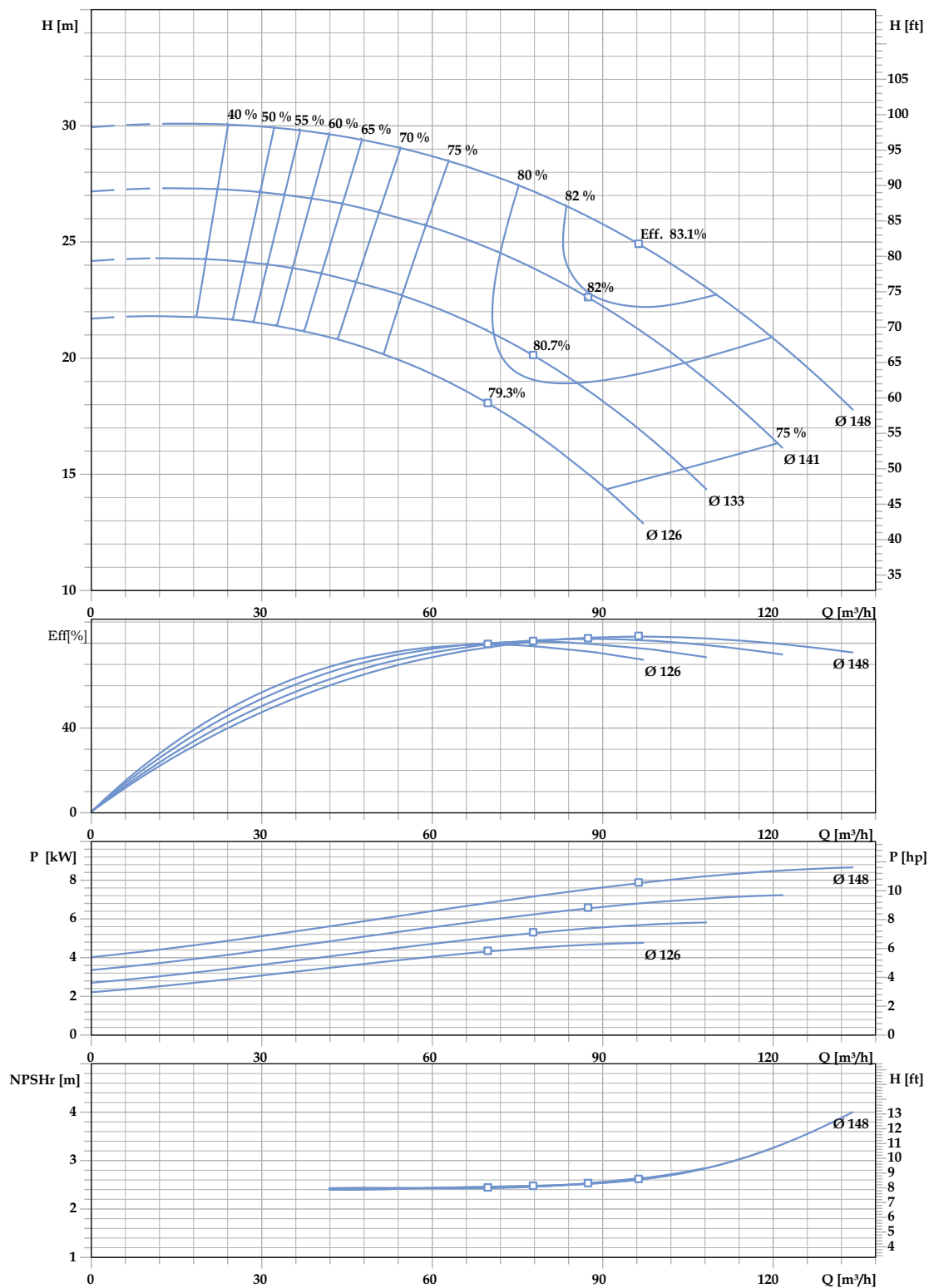
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

Performance Curve

Pump Model : ECW - 65/125

Pump Size in mm : (Suc X Dis X Imp Size) 80 X 65 X 125

Speed : 2900 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
For safety kindly consider a margin of 0.5m higher of NPSH.

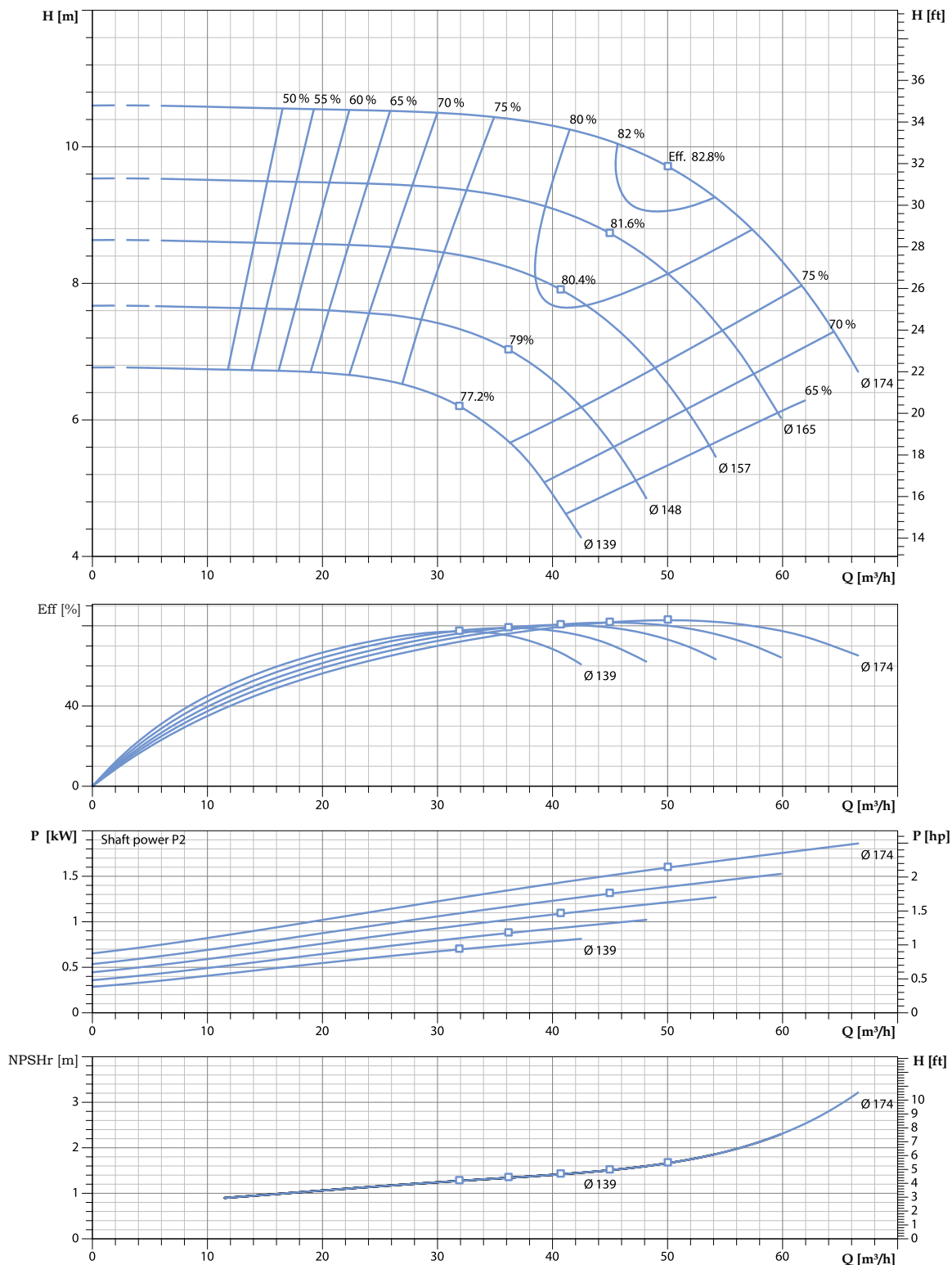
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

Performance Curve

Pump Model : ECW - 65/160

Pump Size in mm : (Suc X Dis X Imp Size) 80 X 65 X 160

Speed : 1450 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
For safety kindly consider a margin of 0.5m higher of NPSH.

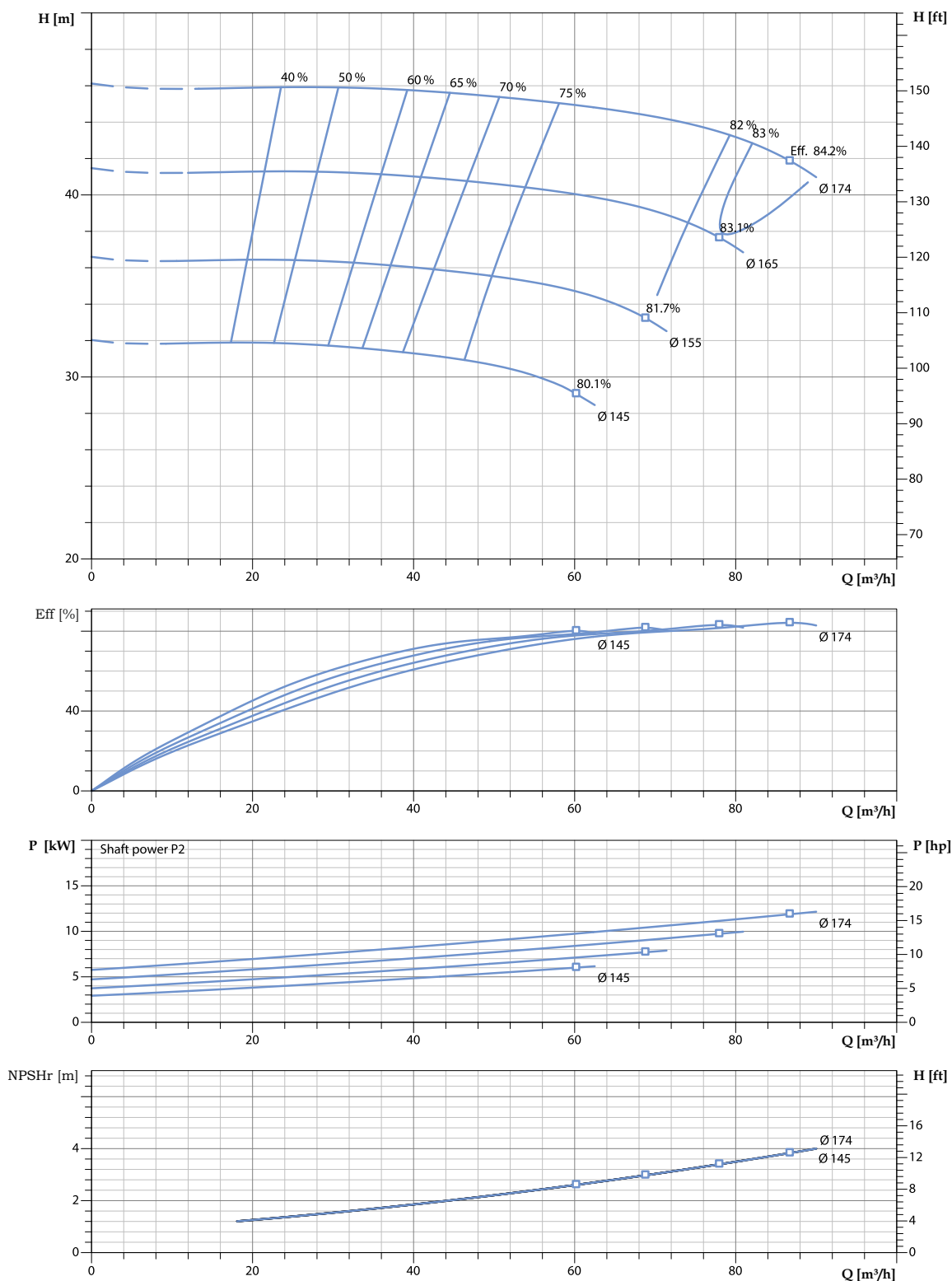
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

Performance Curve

Pump Model : ECW - 65/160

Pump Size in mm : (Suc X Dis X Imp Size) 80 X 65 X 160

Speed : 2900 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
For safety kindly consider a margin of 0.5m higher of NPSH.

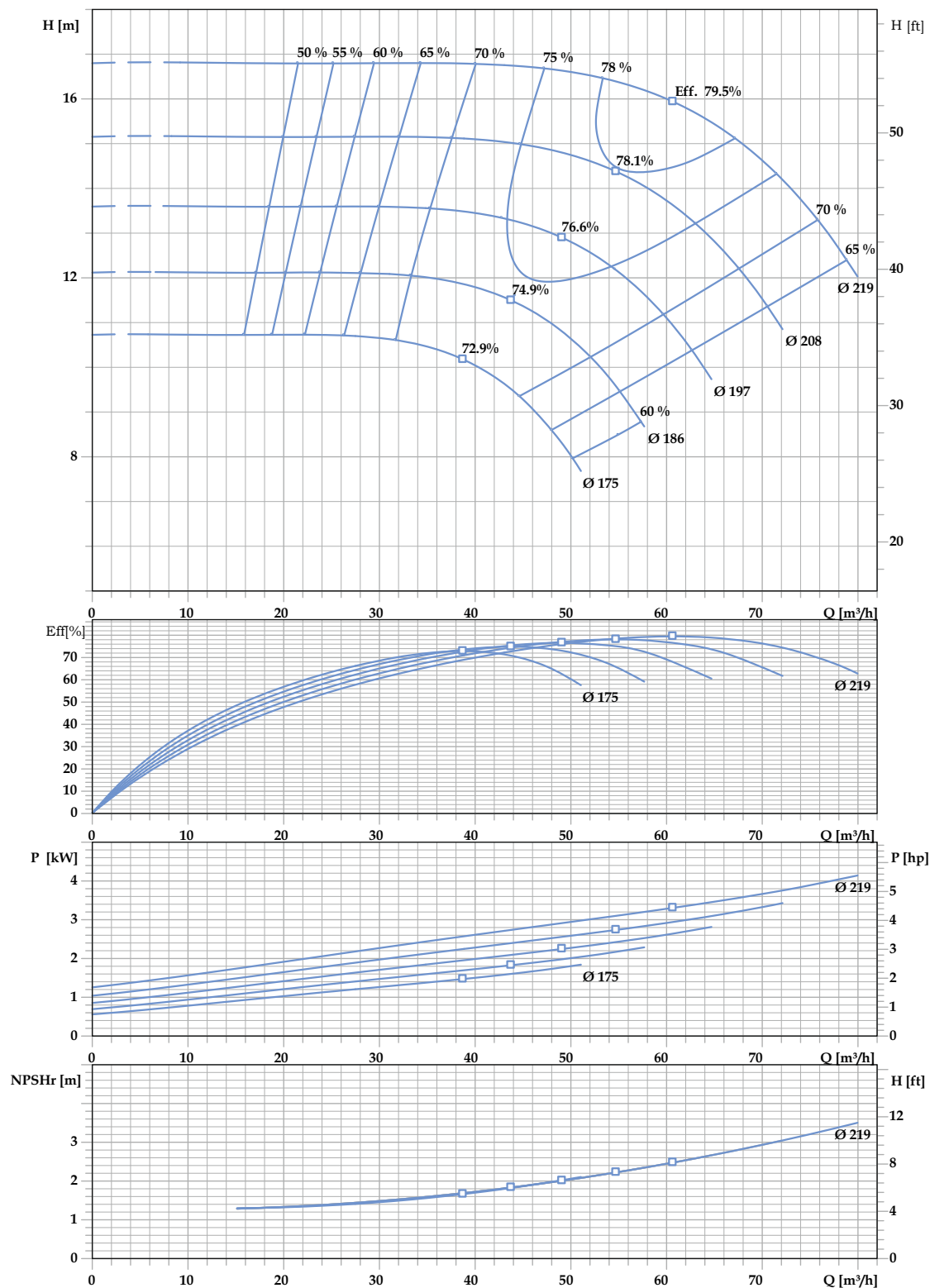
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

Performance Curve

Pump Model : ECW - 65/200

Pump Size in mm : (Suc X Dis X Imp Size) 80 X 65 X 200

Speed : 1450 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
For safety kindly consider a margin of 0.5m higher of NPSH.

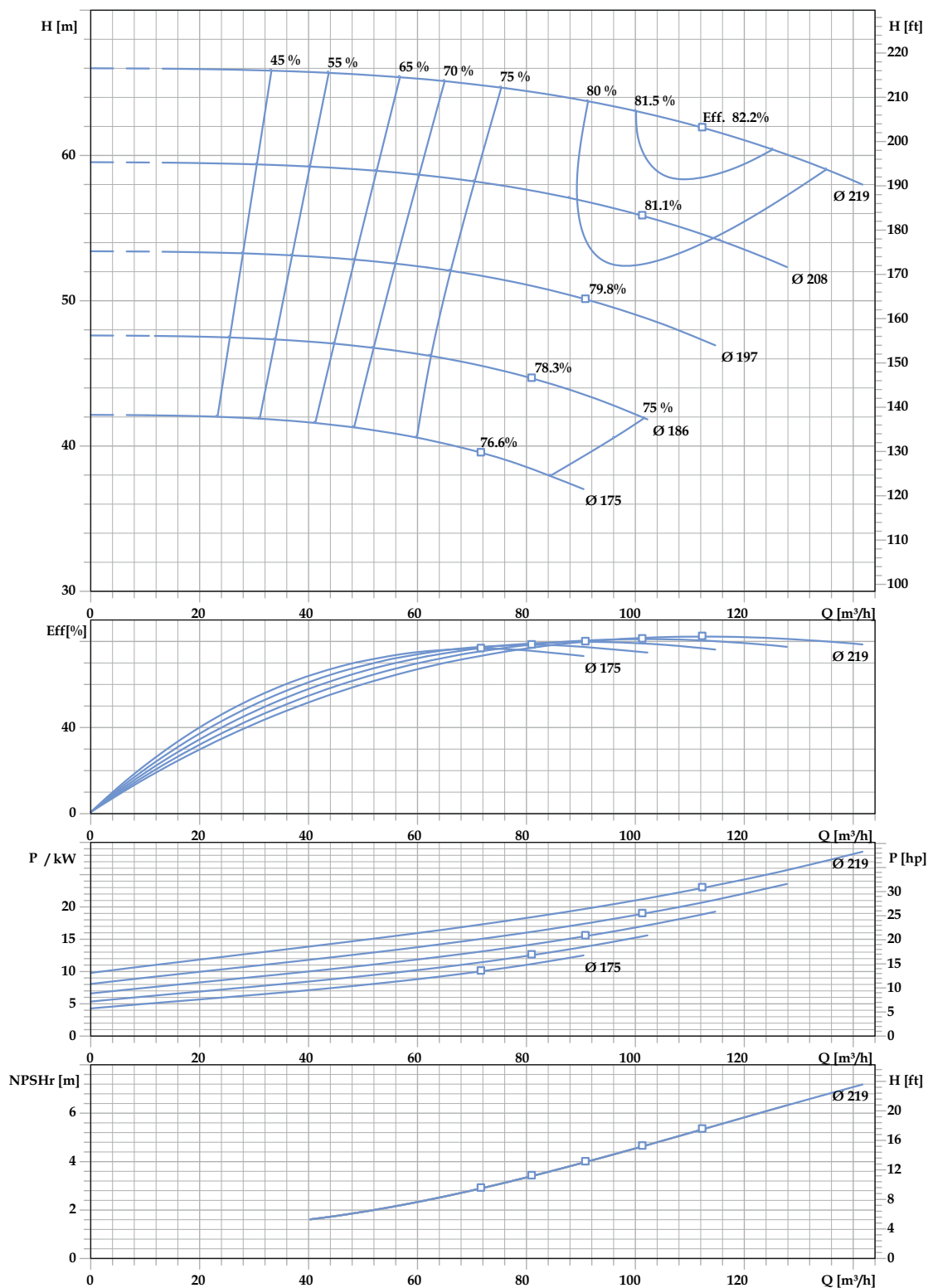
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

Performance Curve

Pump Model : ECW - 65/200

Pump Size in mm : (Suc X Dis X Imp Size) 80 X 65 X 200

Speed : 2900 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
For safety kindly consider a margin of 0.5m higher of NPSH.

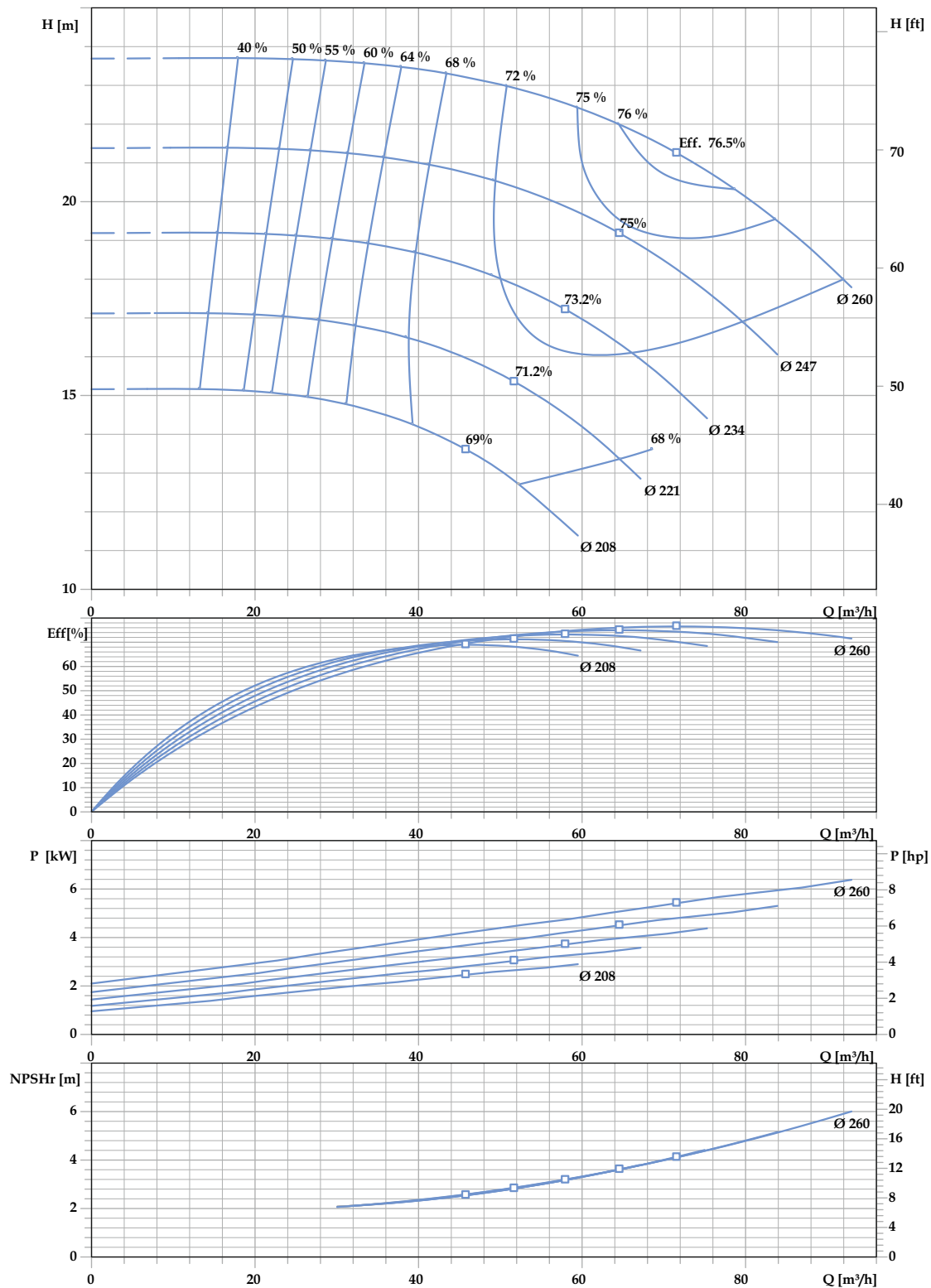
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

Performance Curve

Pump Model : ECW - 65/250

Pump Size in mm : (Suc X Dis X Imp Size) 80 X 65 X 250

Speed : 1450 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
For safety kindly consider a margin of 0.5m higher of NPSH.

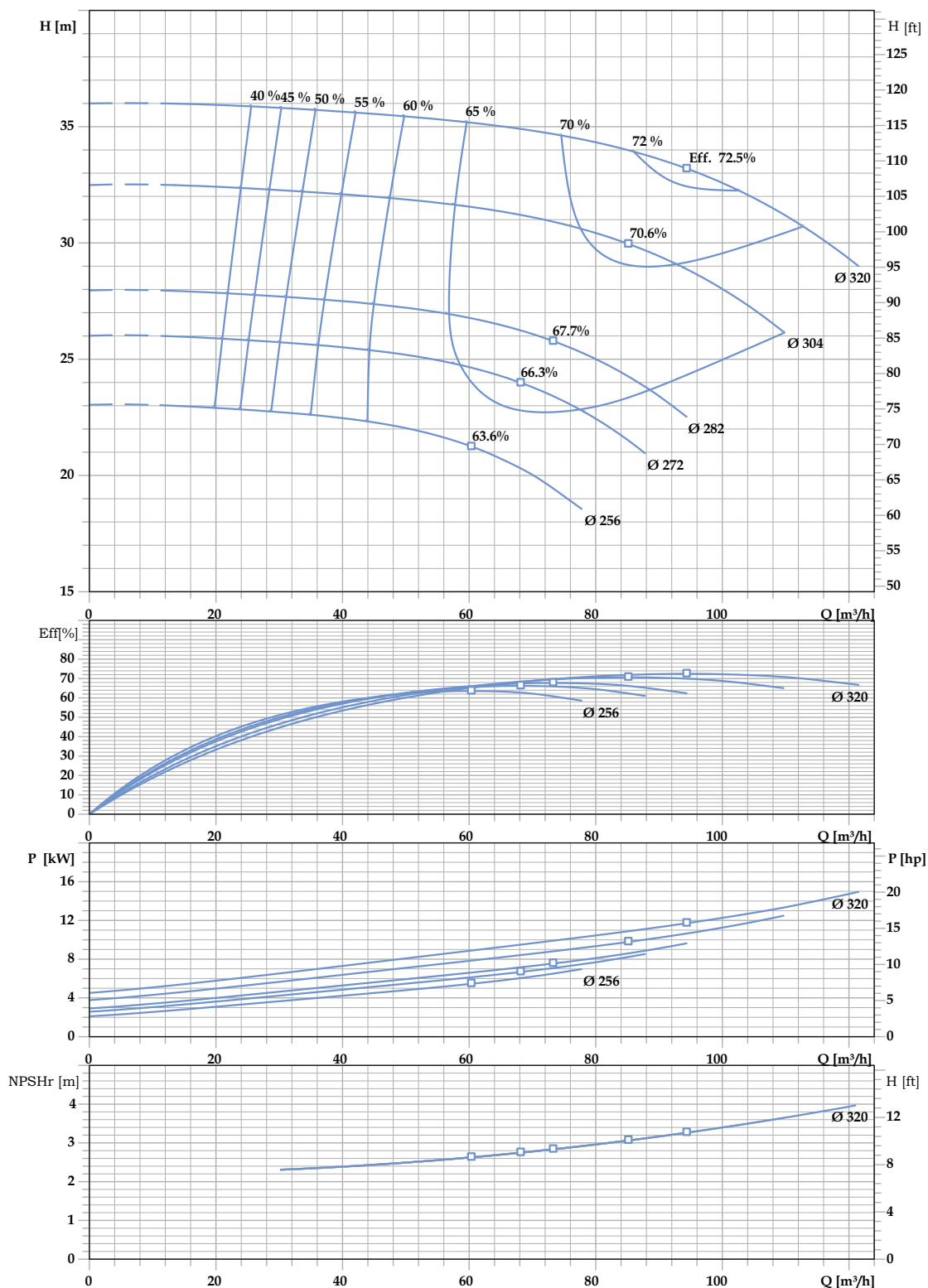
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

Performance Curve

Pump Model : ECW - 65/315

Pump Size in mm : (Suc X Dis X Imp Size) 80 X 65 X 315

Speed : 1450 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
For safety kindly consider a margin of 0.5m higher of NPSH.

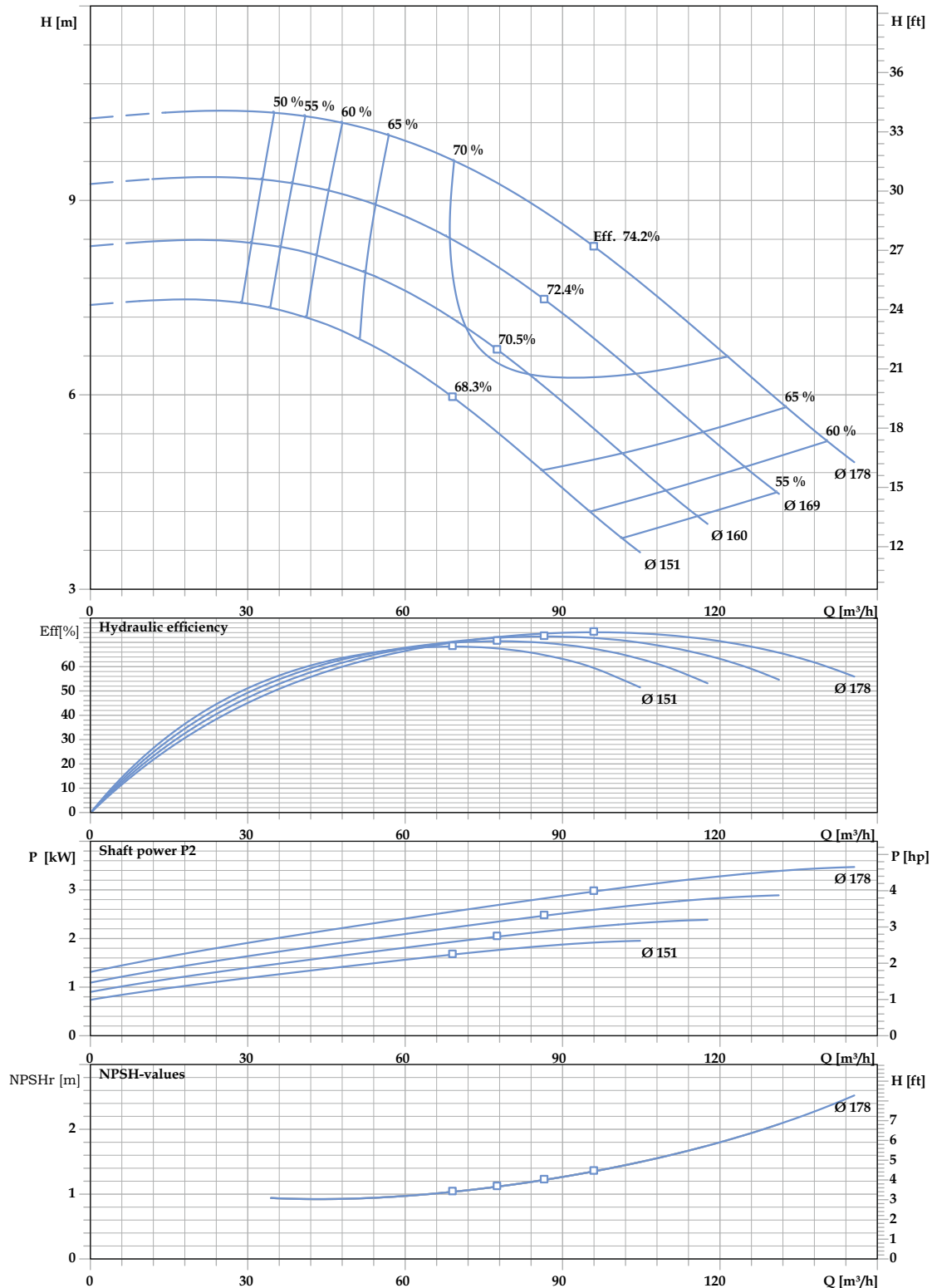
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

Performance Curve

Pump Model : ECW - 80/160

Pump Size in mm : (Suc X Dis X Imp Size) 100 X 80 X 160

Speed : 1450 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
For safety kindly consider a margin of 0.5m higher of NPSH.

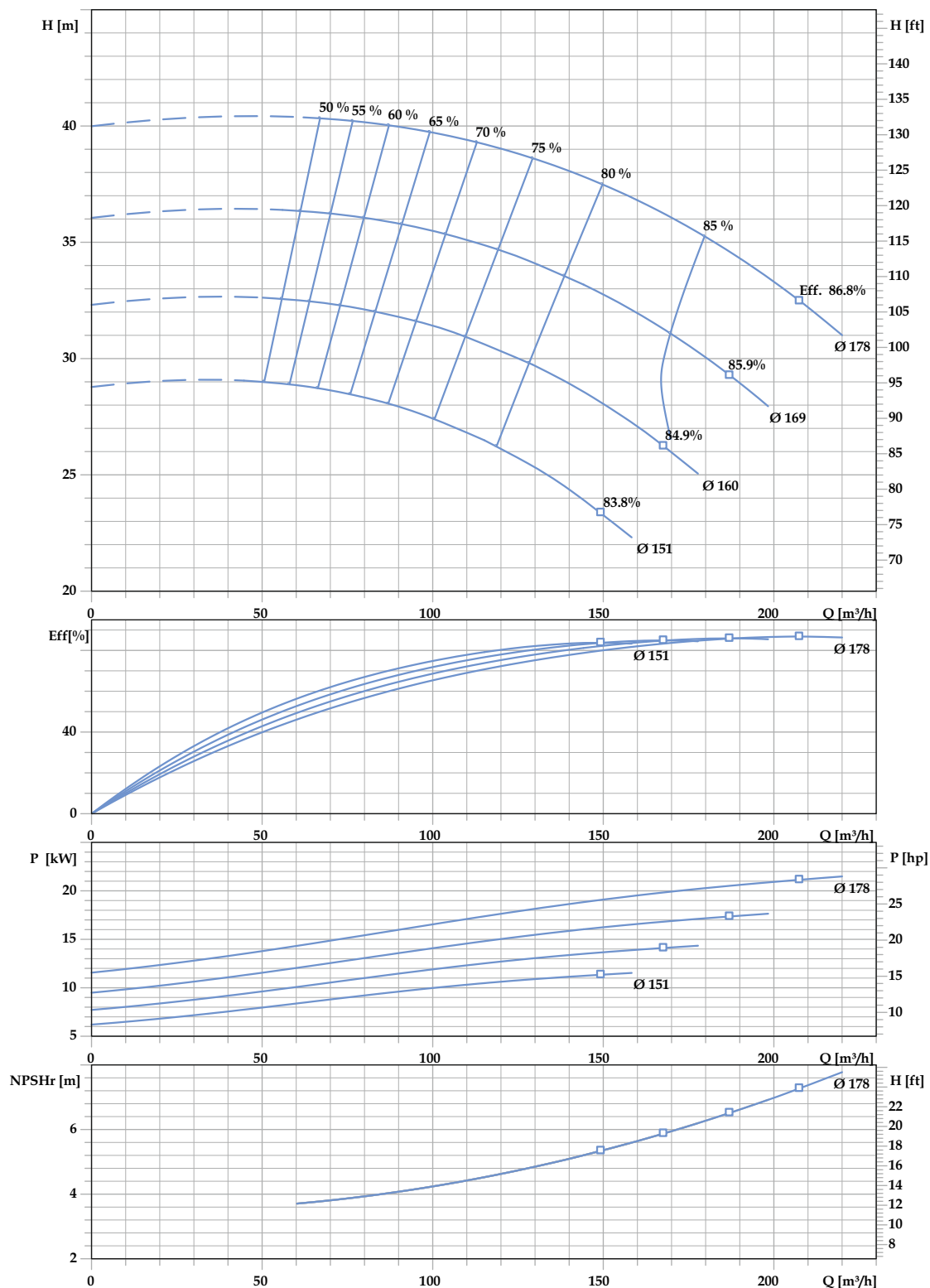
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

Performance Curve

Pump Model : ECW - 80/160

Pump Size in mm : (Suc X Dis X Imp Size) 100 X 80 X 160

Speed : 2900 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
For safety kindly consider a margin of 0.5m higher of NPSH.

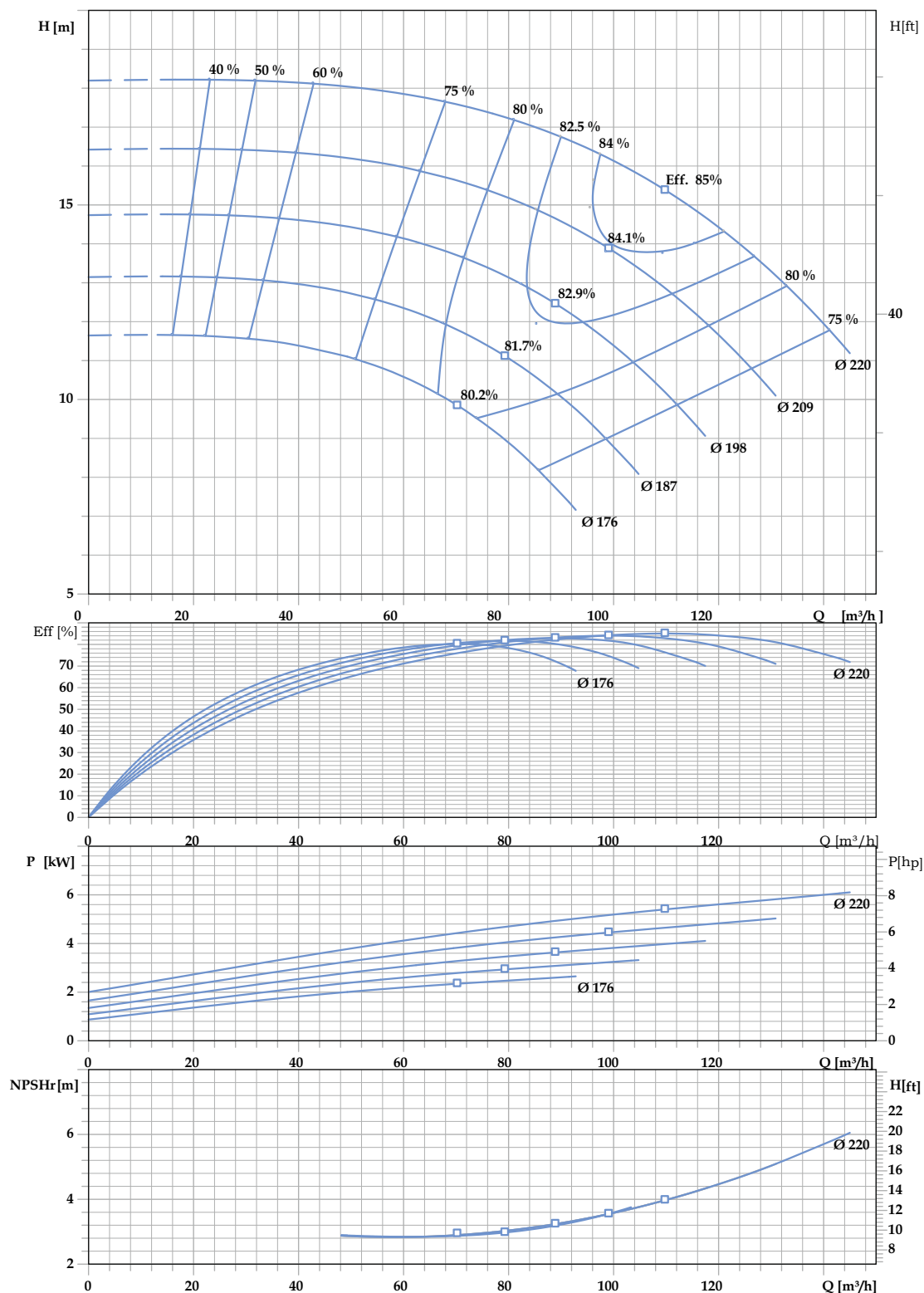
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

Performance Curve

Pump Model : ECW - 80/200

Pump Size in mm : (Suc X Dis X Imp Size) 100 X 80 X 200

Speed : 1450 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
For safety kindly consider a margin of 0.5m higher of NPSH.

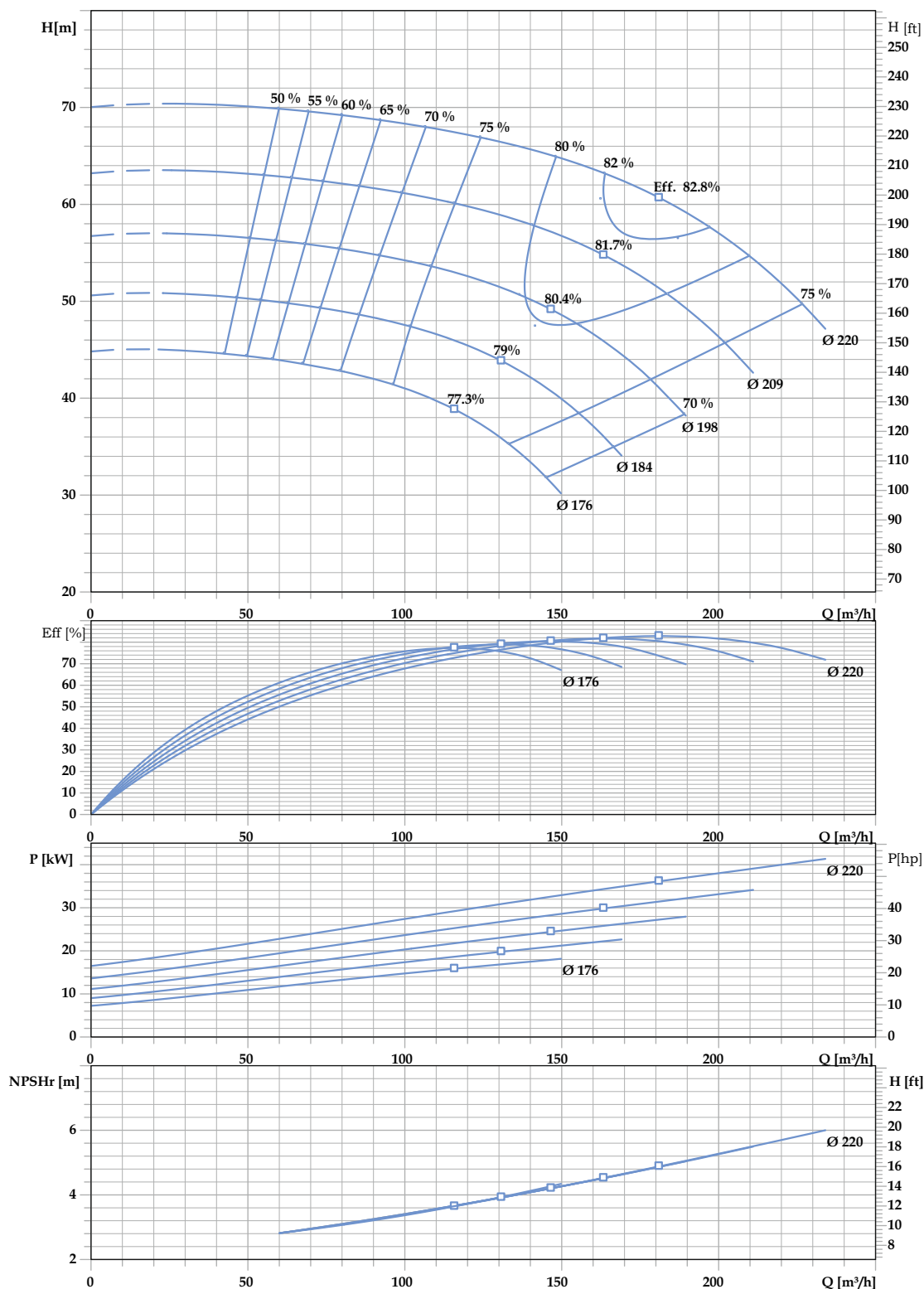
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

Performance Curve

Pump Model : ECW - 80/200

Pump Size in mm : (Suc X Dis X Imp Size) 100 X 80 X 200

Speed : 2900 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
For safety kindly consider a margin of 0.5m higher of NPSH.

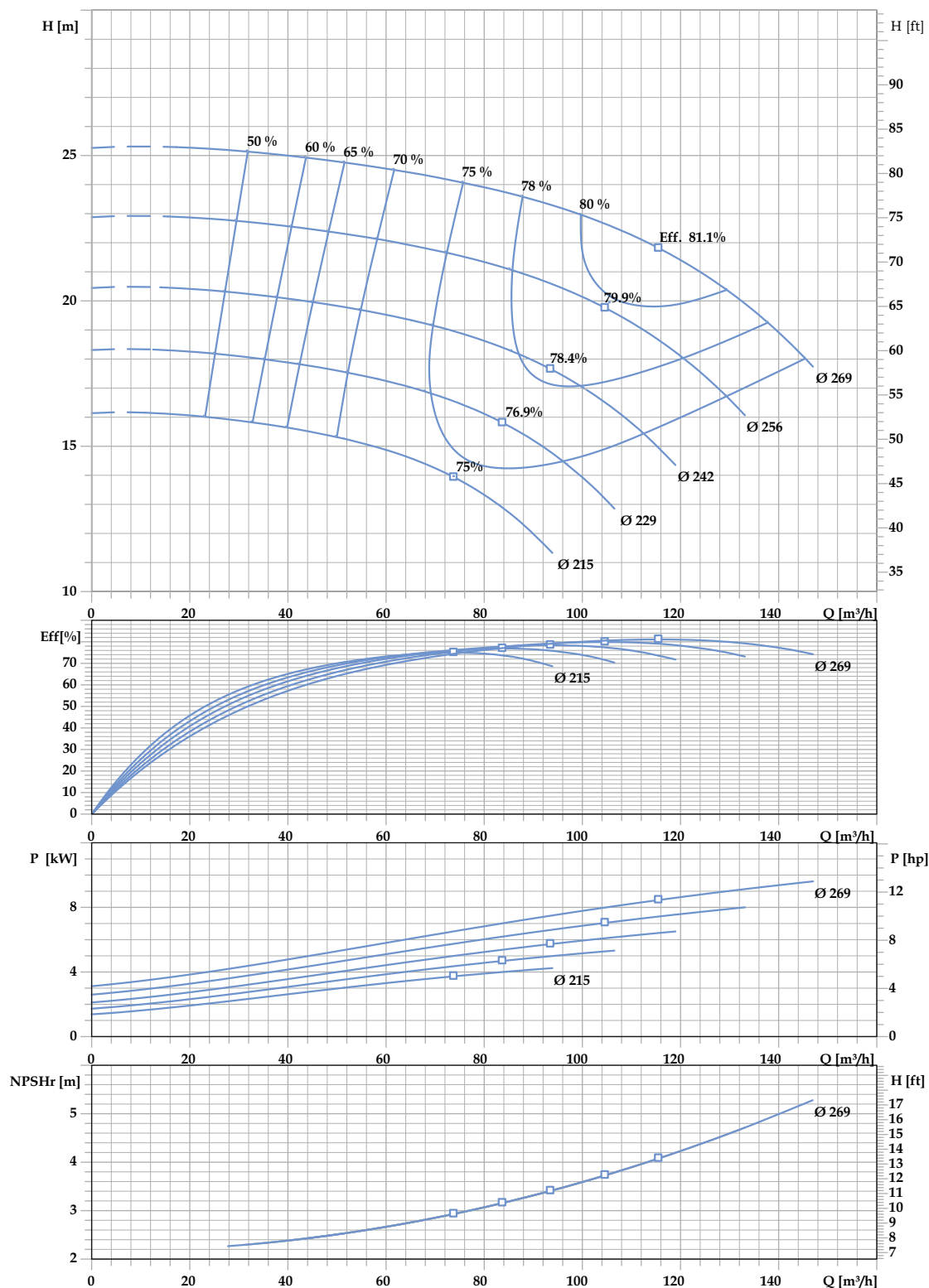
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

Performance Curve

Pump Model : ECW - 80/250

Pump Size in mm : (Suc X Dis X Imp Size) 100 X 80 X 250

Speed : 1450 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
For safety kindly consider a margin of 0.5m higher of NPSH.

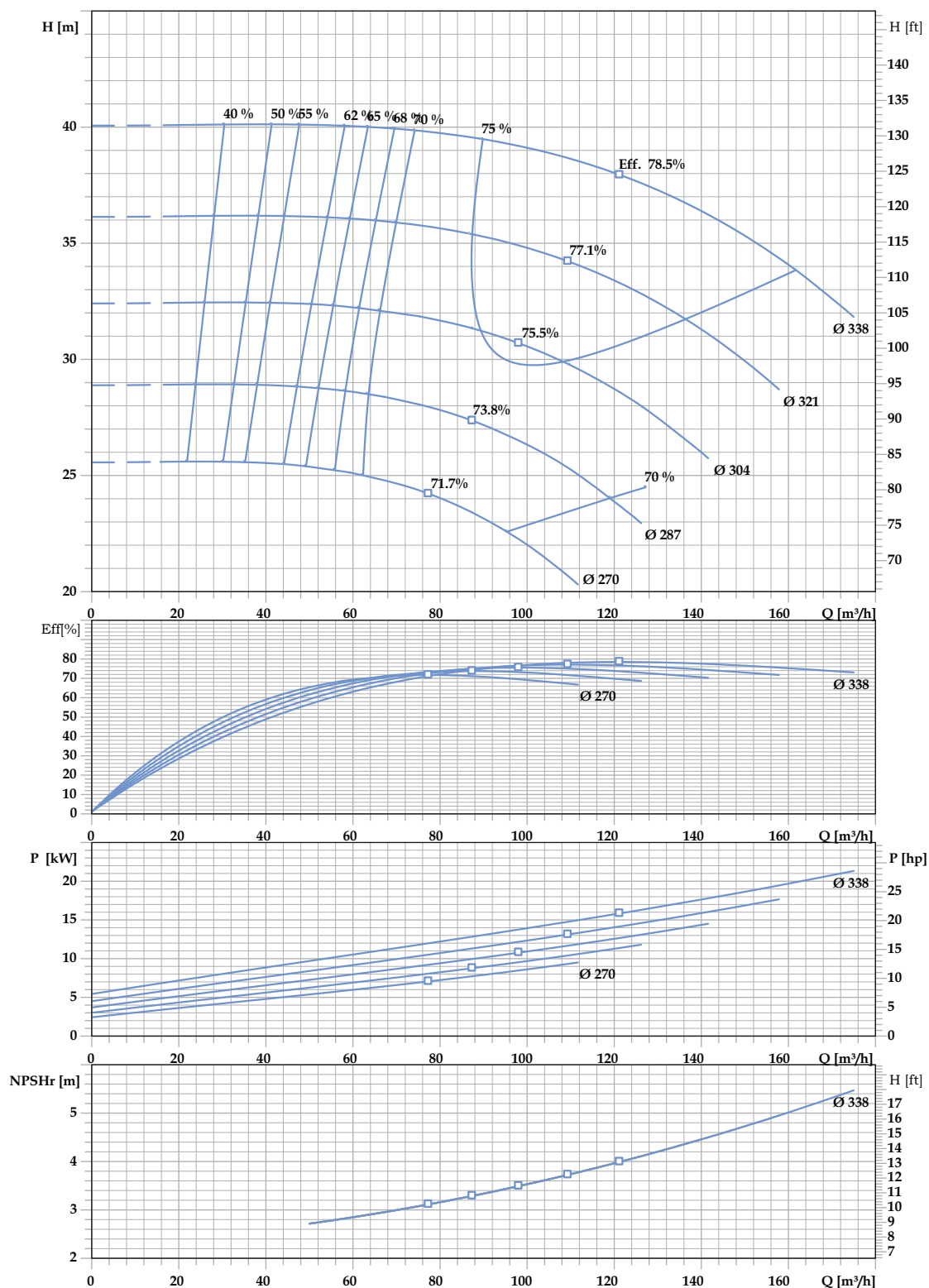
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

Performance Curve

Pump Model : ECW - 80/315

Pump Size in mm : (Suc X Dis X Imp Size) 100 X 80 X 315

Speed : 1450 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
For safety kindly consider a margin of 0.5m higher of NPSH.

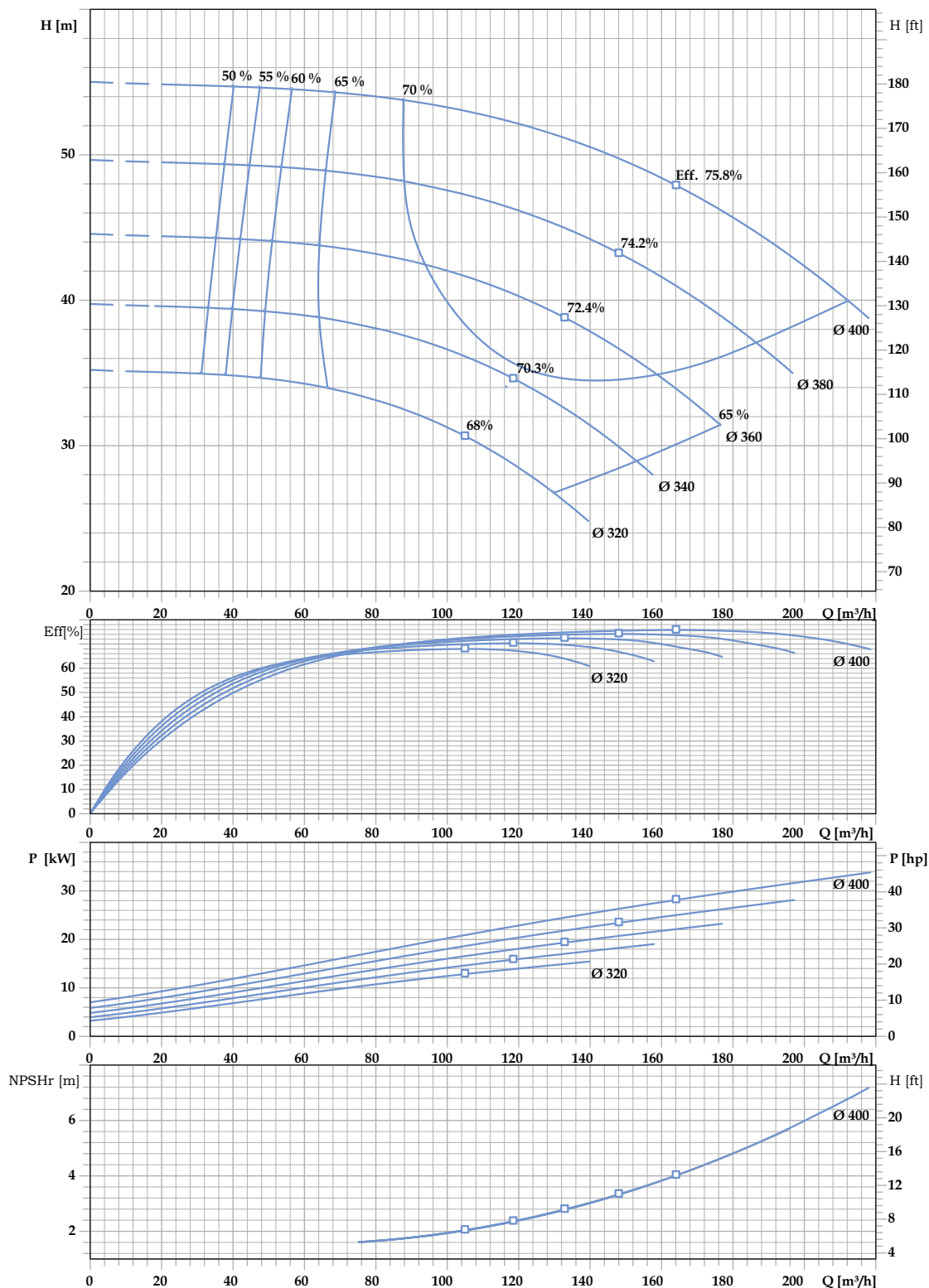
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

Performance Curve

Pump Model : ECW - 80/400

Pump Size in mm : (Suc X Dis X Imp Size) 100 X 80 X 400

Speed : 1450 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
For safety kindly consider a margin of 0.5m higher of NPSH.

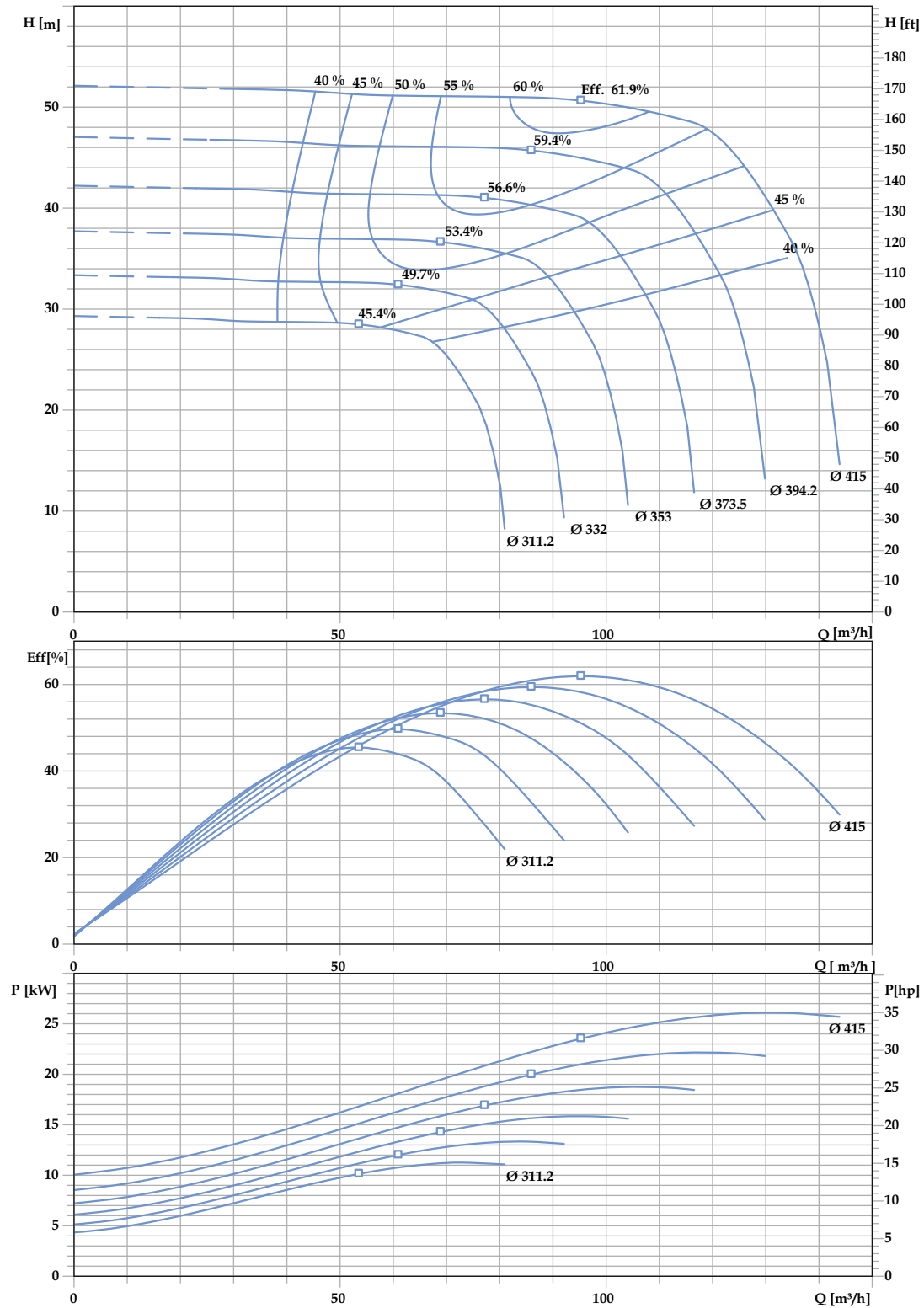
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

Performance Curve

Pump Model : ECW - 80/415

Pump Size in mm : (Suc X Dis X Imp Size) 100 X 80 X 415

Speed : 1450 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
For safety kindly consider a margin of 0.5m higher of NPSH.

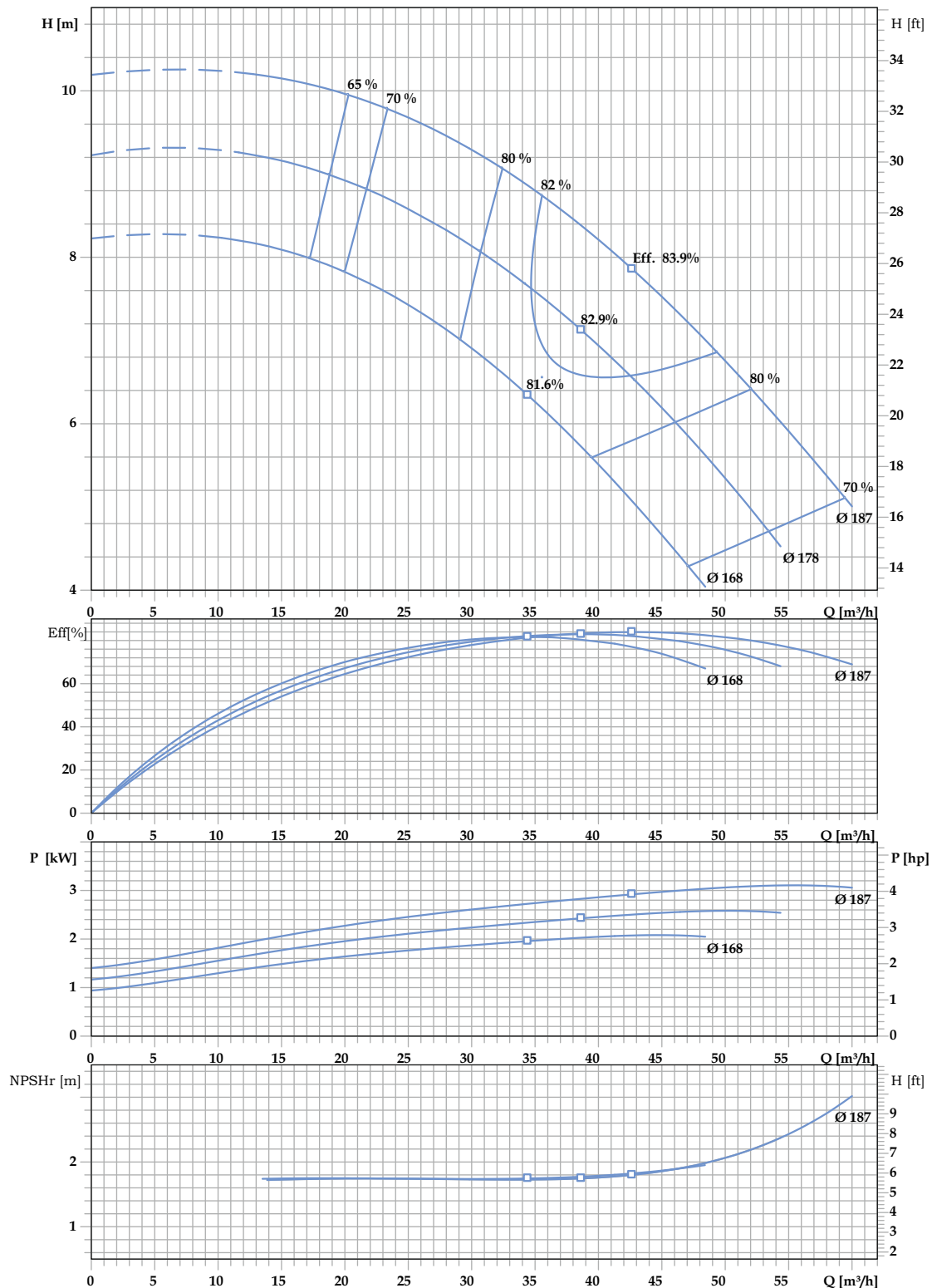
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

Performance Curve

Pump Model : ECW - 100/160

Pump Size in mm : (Suc X Dis X Imp Size) 125 X 100 X 160

Speed : 1450 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
For safety kindly consider a margin of 0.5m higher of NPSH.

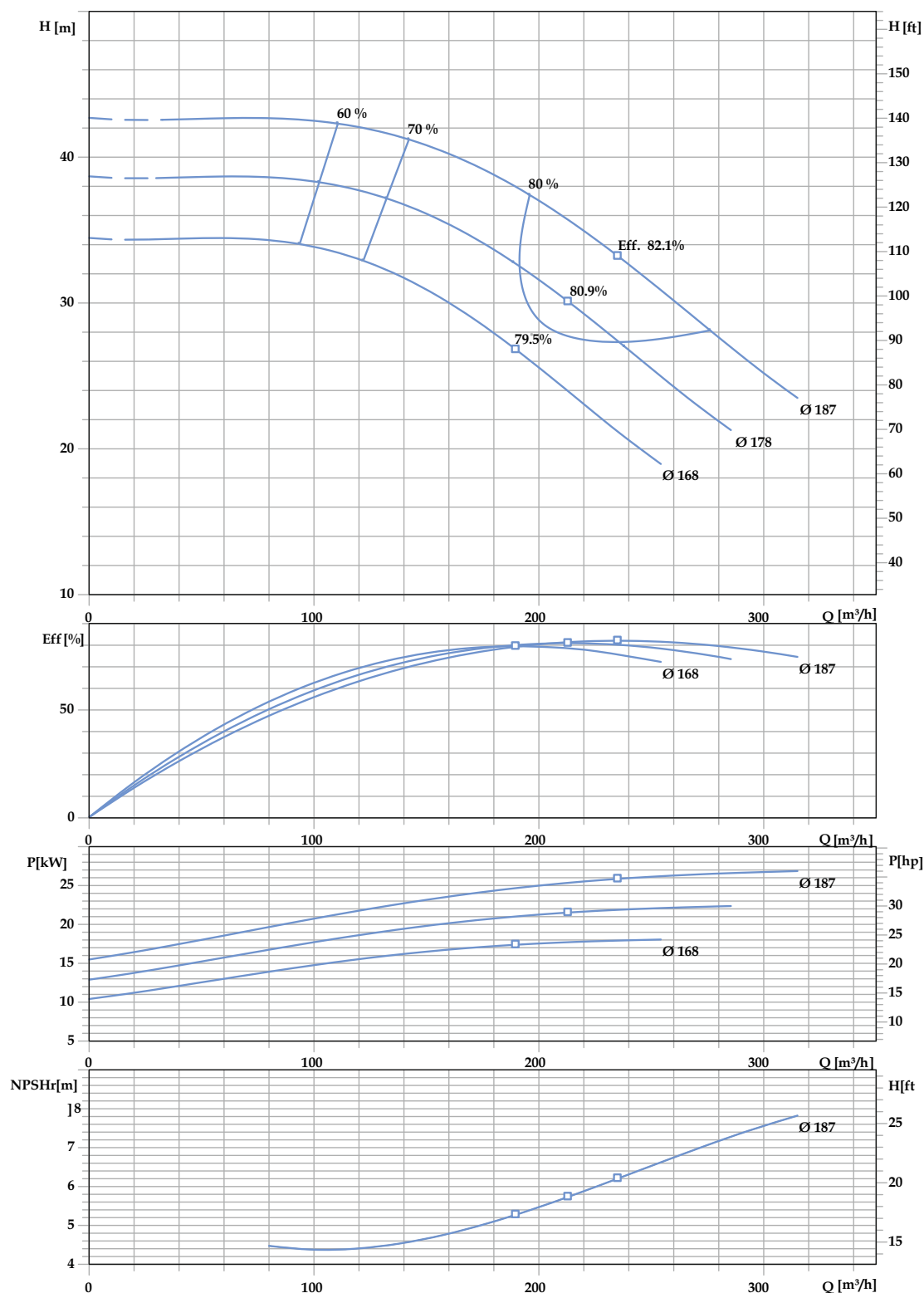
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

Performance Curve

Pump Model : ECW - 100/160

Pump Size in mm : (Suc X Dis X Imp Size) 125 X 100 X 160

Speed : 2900 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
For safety kindly consider a margin of 0.5m higher of NPSH.

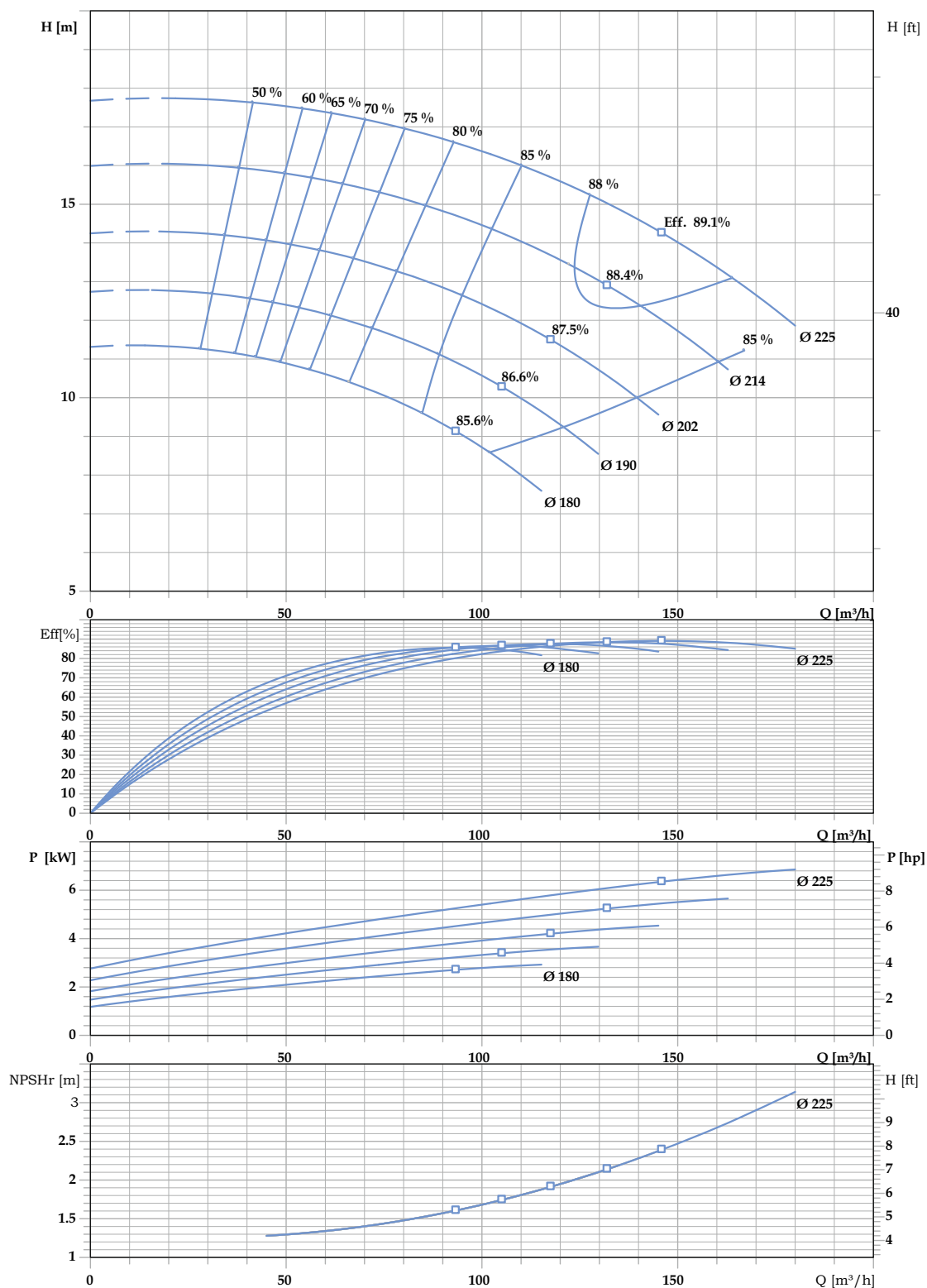
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

Performance Curve

Pump Model : ECW - 100/200

Pump Size in mm : (Suc X Dis X Imp Size) 125 X 100 X 200

Speed : 1450 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
For safety kindly consider a margin of 0.5m higher of NPSH.

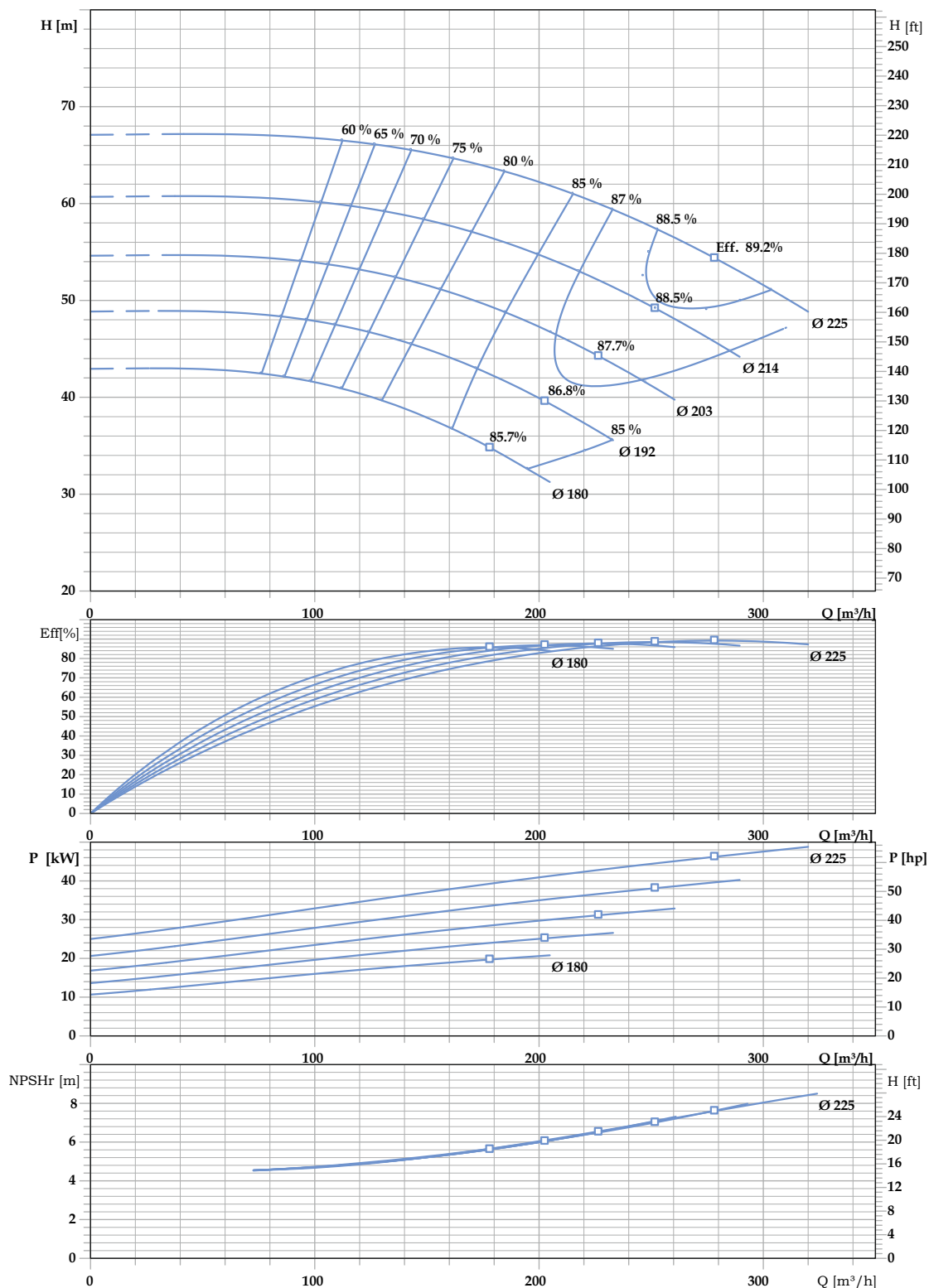
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

Performance Curve

Pump Model : ECW - 100/200

Pump Size in mm : (Suc X Dis X Imp Size) 125 X 100 X 200

Speed : 2900 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
For safety kindly consider a margin of 0.5m higher of NPSH.

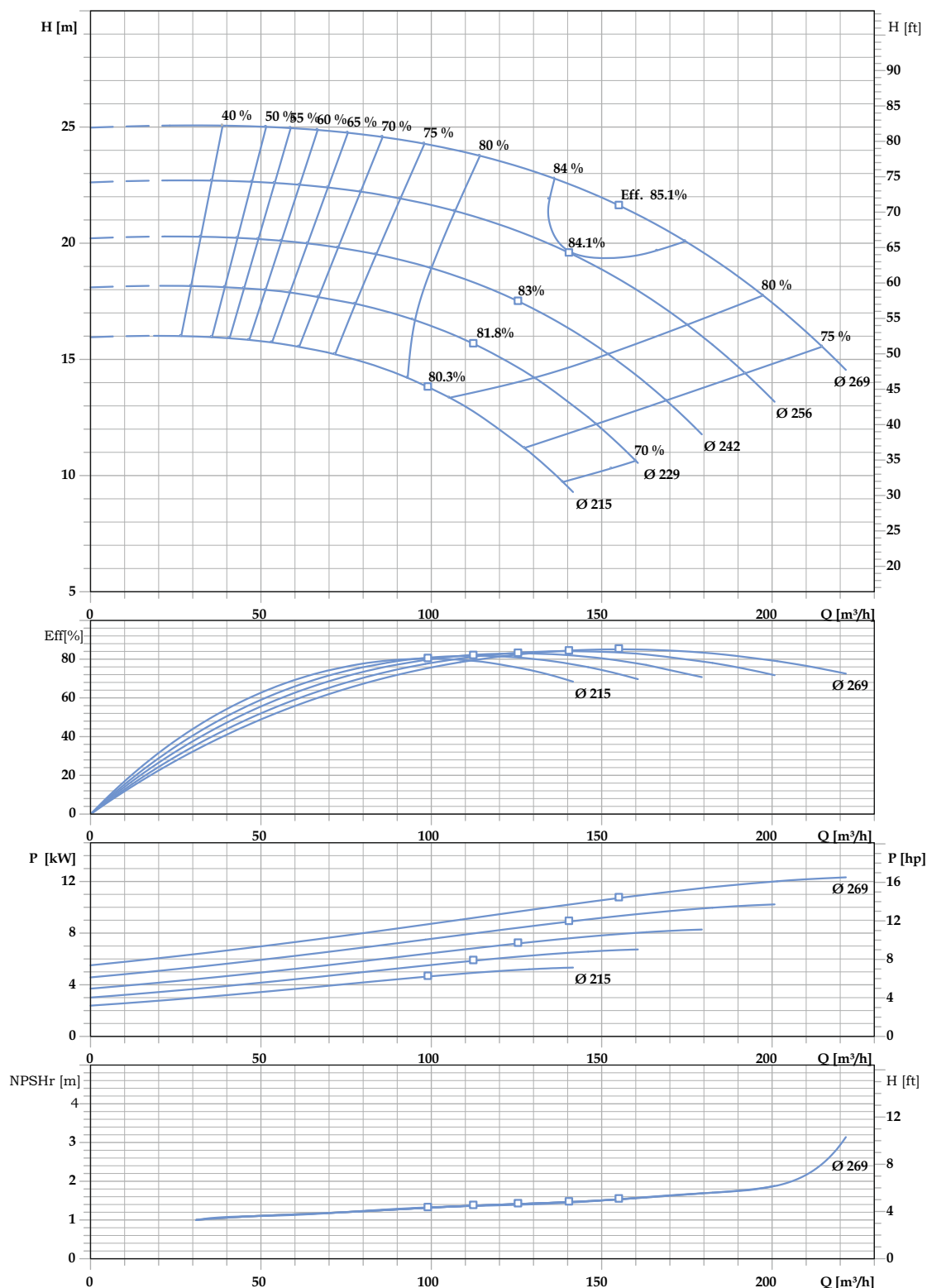
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

Performance Curve

Pump Model : ECW - 100/250

Pump Size in mm : (Suc X Dis X Imp Size) 125 X 100 X 250

Speed : 1450 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
For safety kindly consider a margin of 0.5m higher of NPSH.

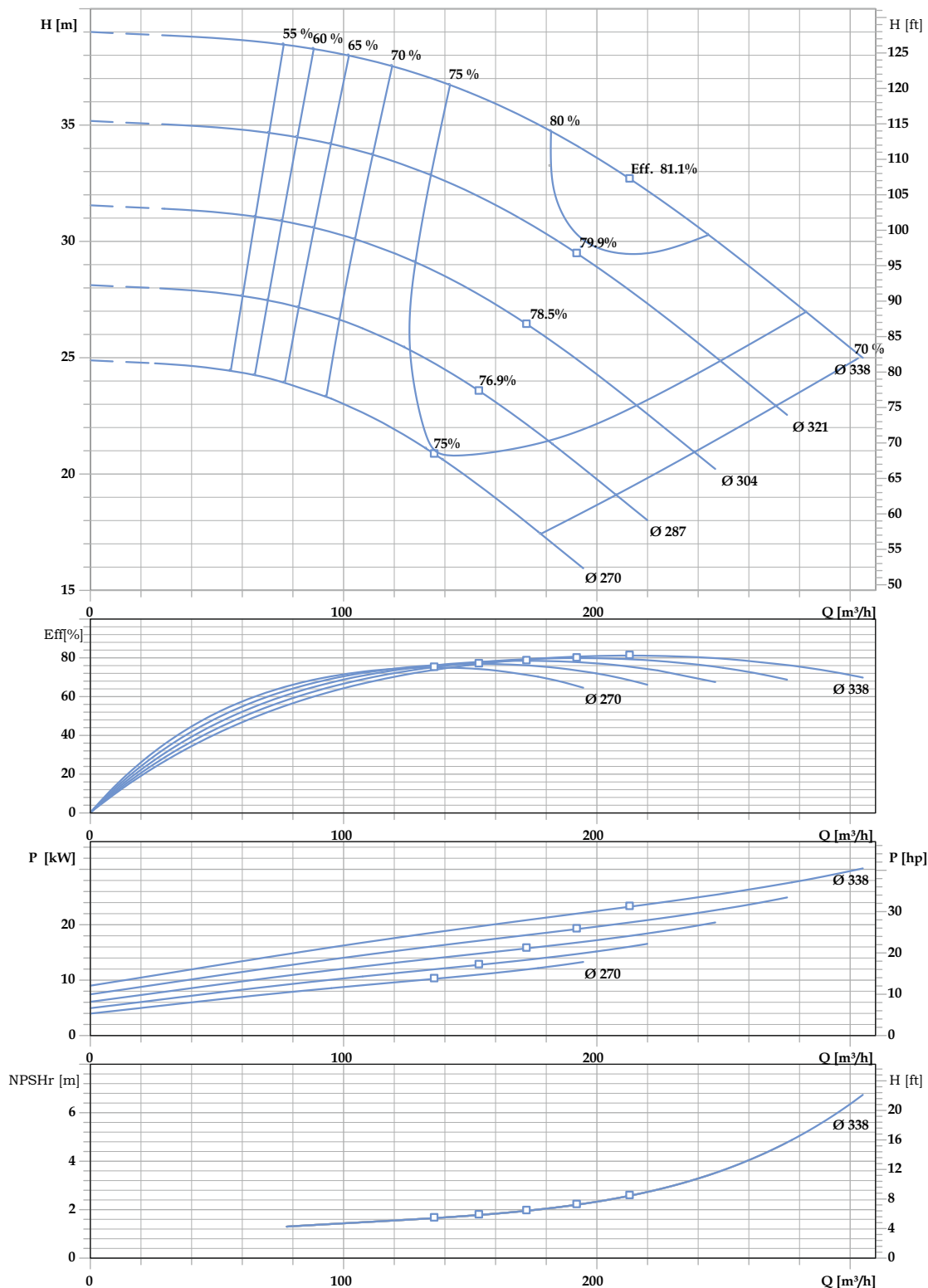
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

Performance Curve

Pump Model : ECW - 100/315

Pump Size in mm : (Suc X Dis X Imp Size) 125 X 100 X 315

Speed : 1450 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
For safety kindly consider a margin of 0.5m higher of NPSH.

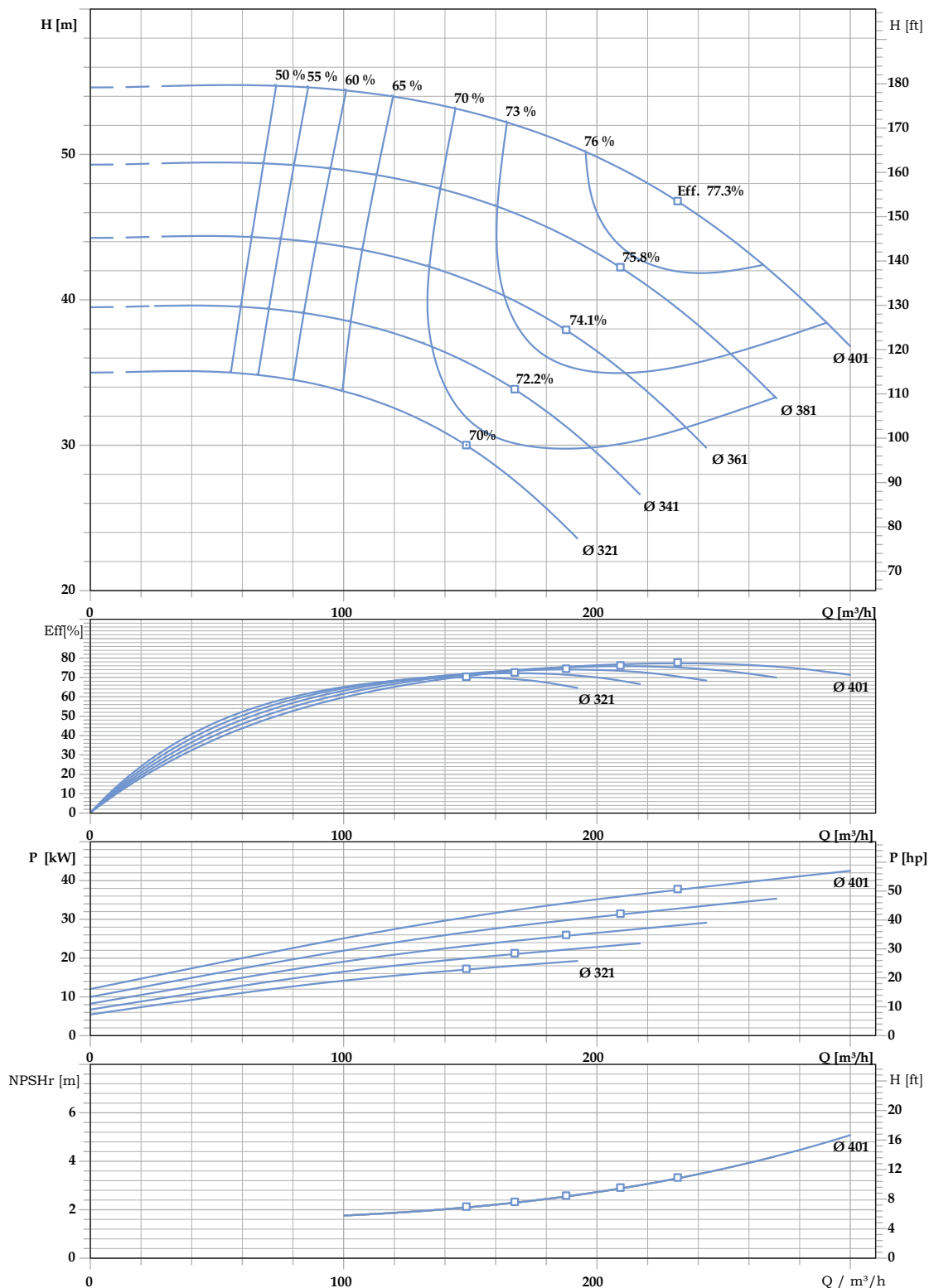
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

Performance Curve

Pump Model : ECW - 100/400

Pump Size in mm : (Suc X Dis X Imp Size) 125 X 100 X 400

Speed : 1450 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
For safety kindly consider a margin of 0.5m higher of NPSH.

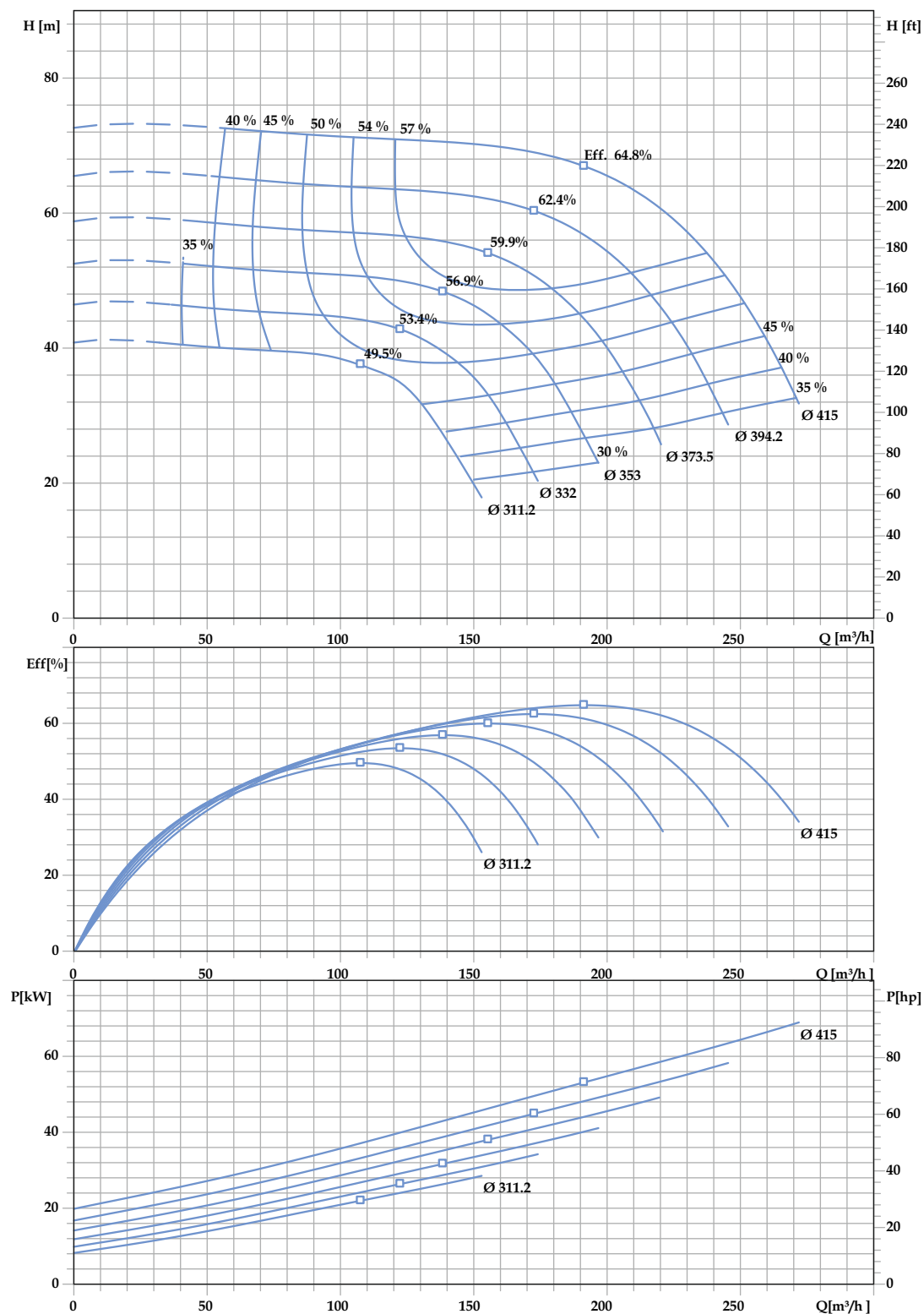
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

Performance Curve

Pump Model : ECW - 100/415

Pump Size in mm : (Suc X Dis X Imp Size) 125 X 100 X 415

Speed : 1450 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
For safety kindly consider a margin of 0.5m higher of NPSH.

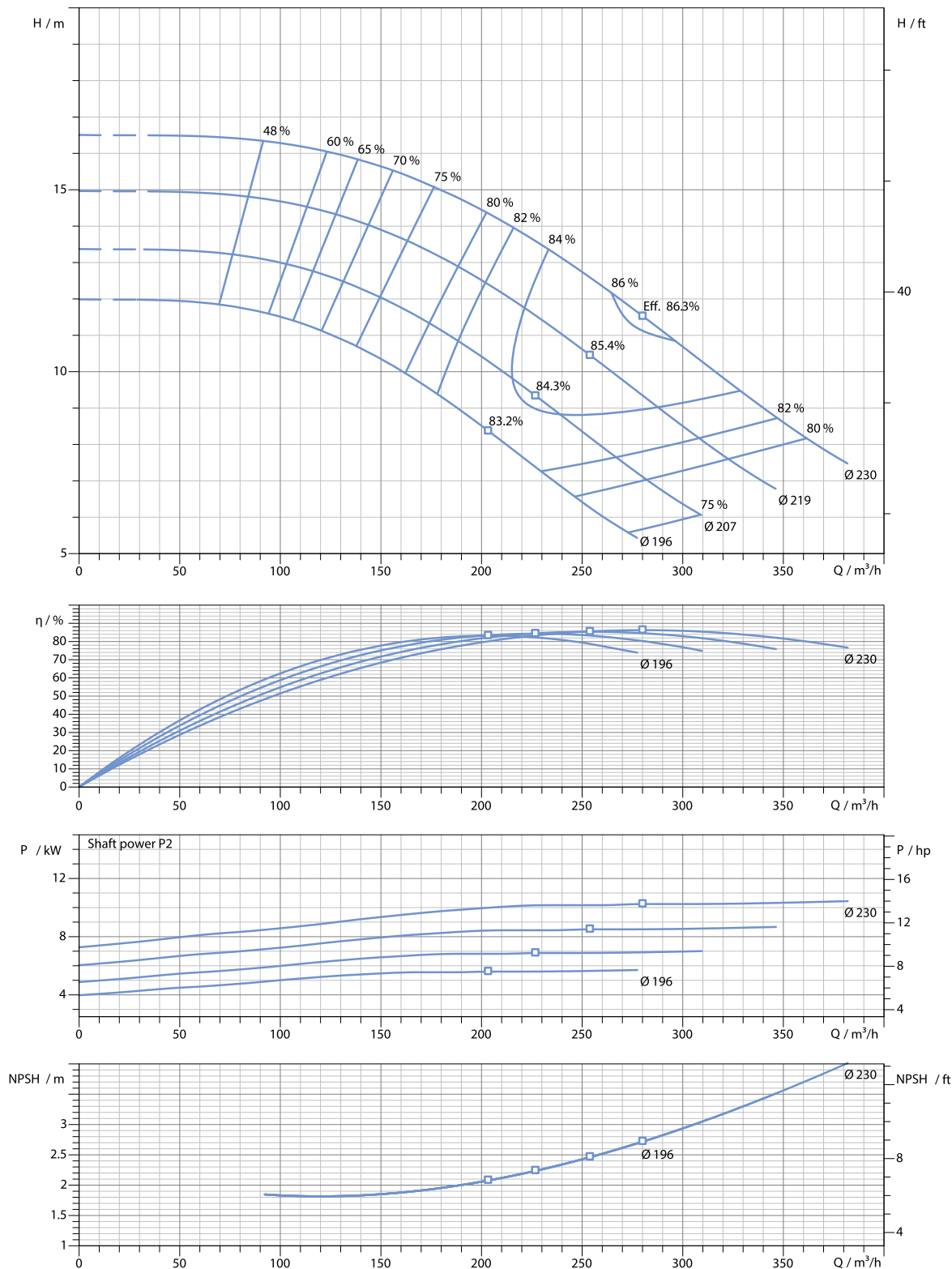
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

Performance Curve

Pump Model : ECW - 125/200

Pump Size in mm : (Suc X Dis X Imp Size) 150 X 125 X 200

Speed : 1450 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
For safety kindly consider a margin of 0.5m higher of NPSH.

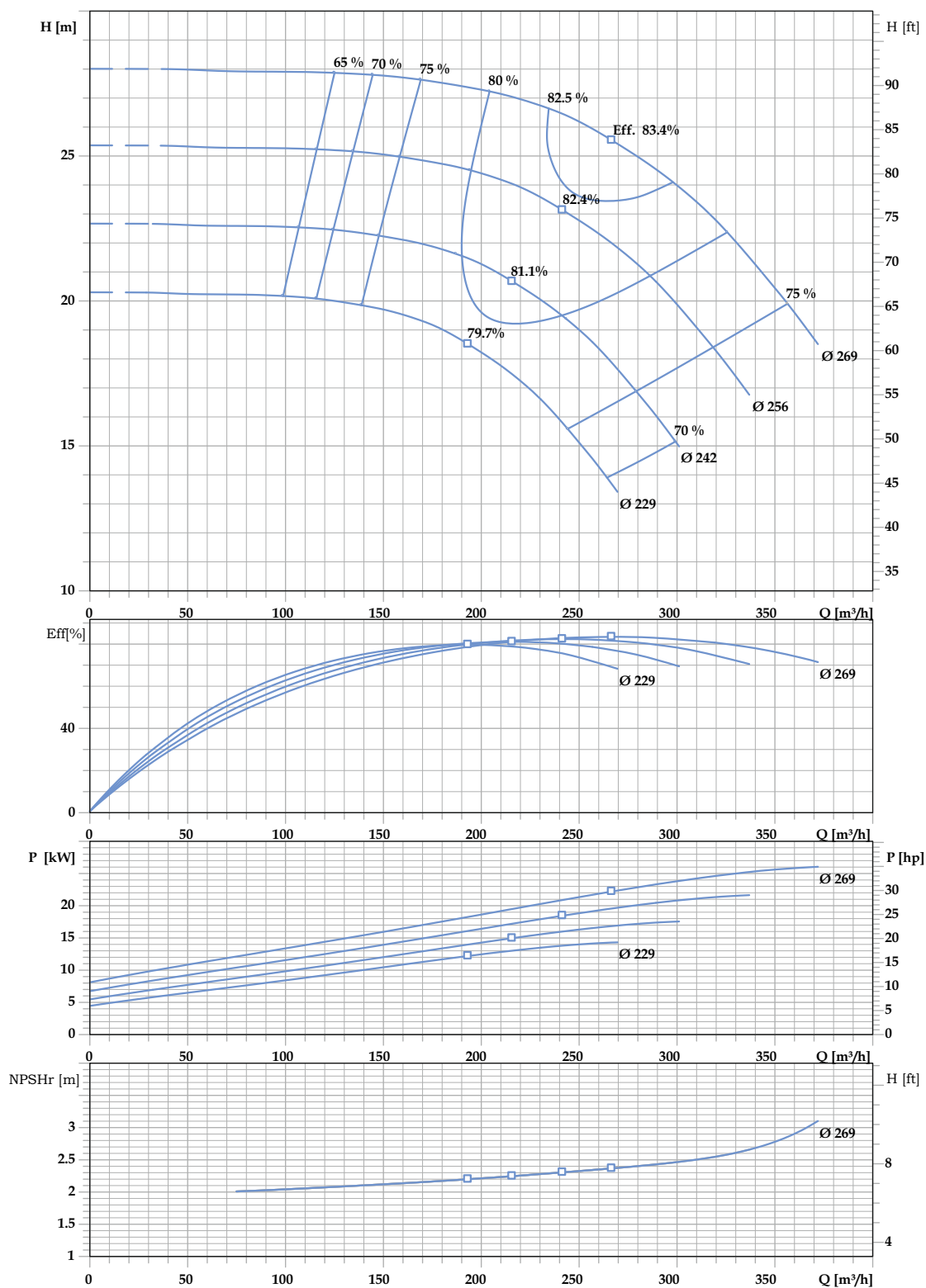
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

Performance Curve

Pump Model : ECW - 125/250

Pump Size in mm : (Suc X Dis X Imp Size) 150 X 125 X 250

Speed : 1450 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
For safety kindly consider a margin of 0.5m higher of NPSH.

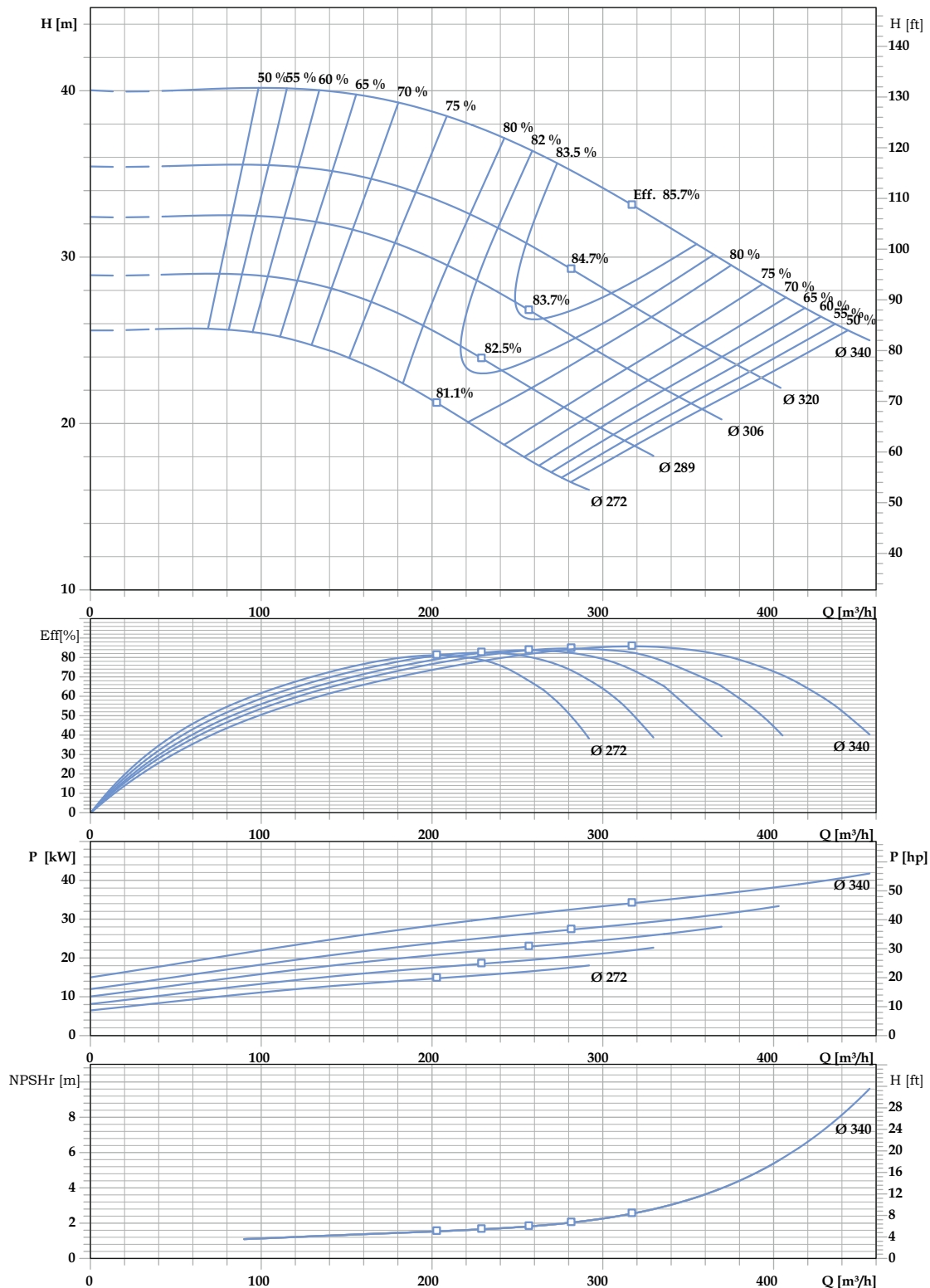
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

Performance Curve

Pump Model : ECW - 125/315

Pump Size in mm : (Suc X Dis X Imp Size) 150 X 125 X 315

Speed : 1450 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
For safety kindly consider a margin of 0.5m higher of NPSH.

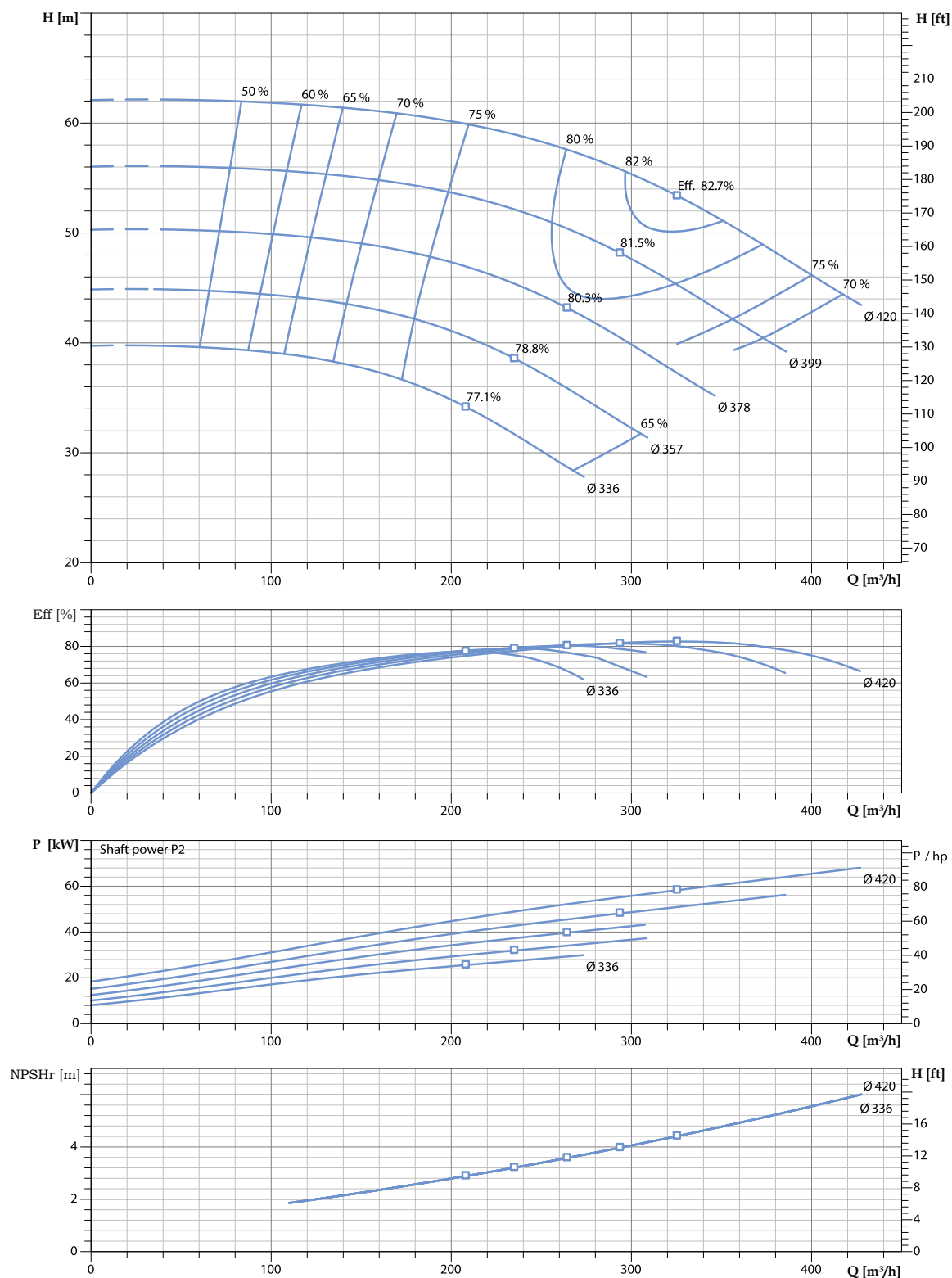
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

Performance Curve

Pump Model : ECW - 125/400

Pump Size in mm : (Suc X Dis X Imp Size) 150 X 125 X 400

Speed : 1450 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
For safety kindly consider a margin of 0.5m higher of NPSH.

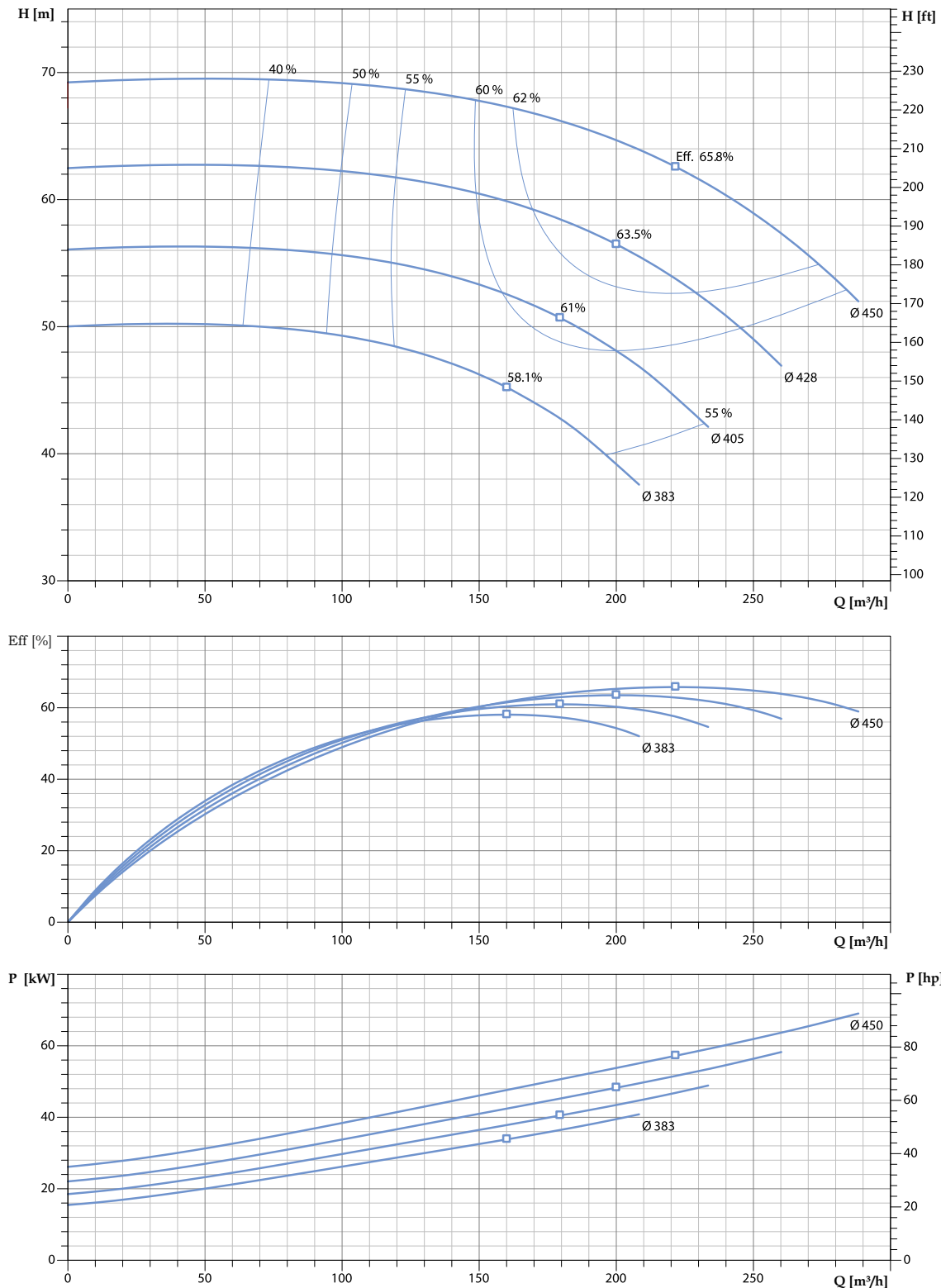
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

Performance Curve

Pump Model : ECW - 125/450

Pump Size in mm : (Suc X Dis X Imp Size) 150 X 125 X 450

Speed : 1450 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
For safety kindly consider a margin of 0.5m higher of NPSH.

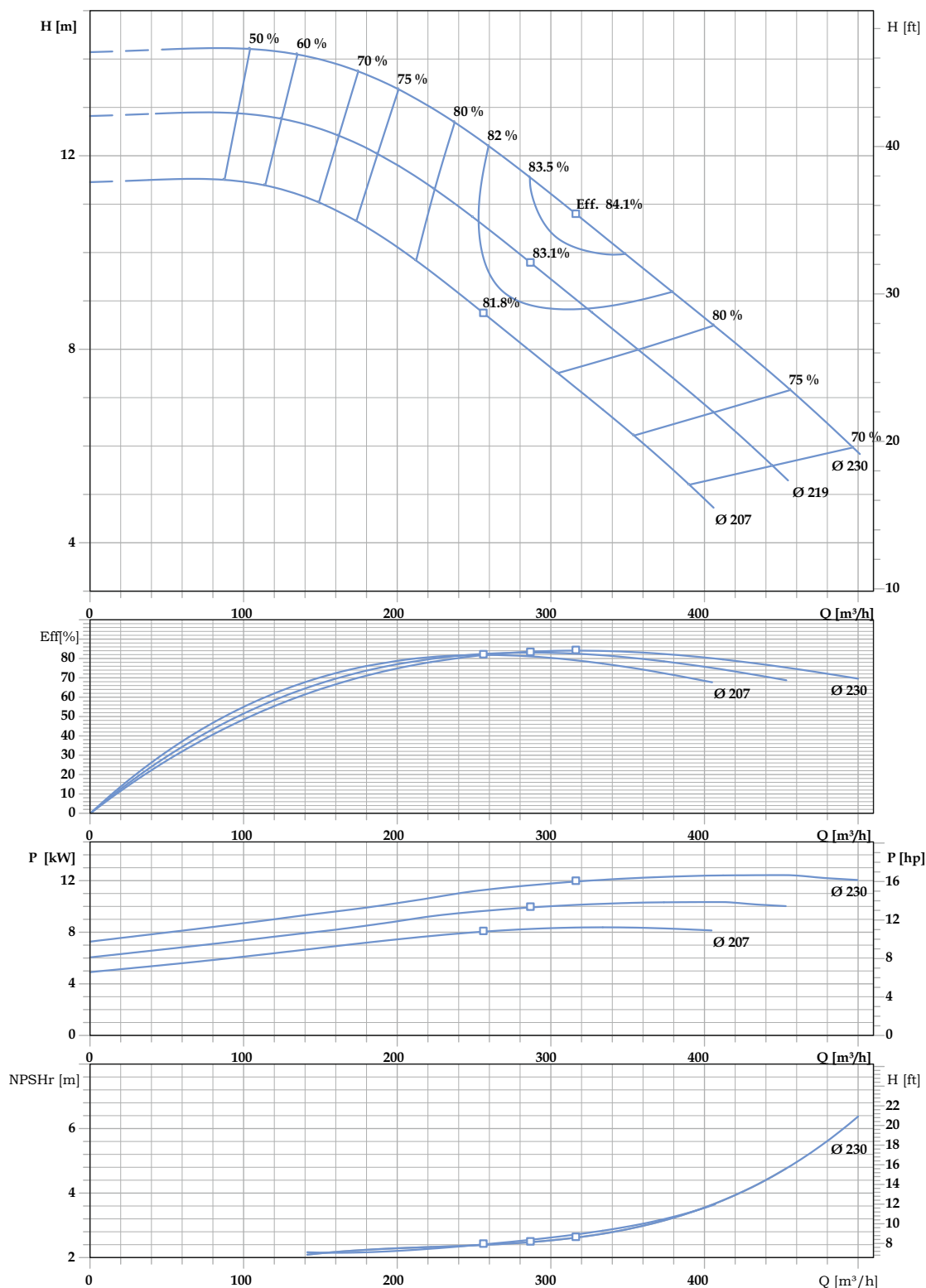
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

Performance Curve

Pump Model : ECW - 150/200

Pump Size in mm : (Suc X Dis X Imp Size) 200 X 150 X 200

Speed : 1450 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
For safety kindly consider a margin of 0.5m higher of NPSH.

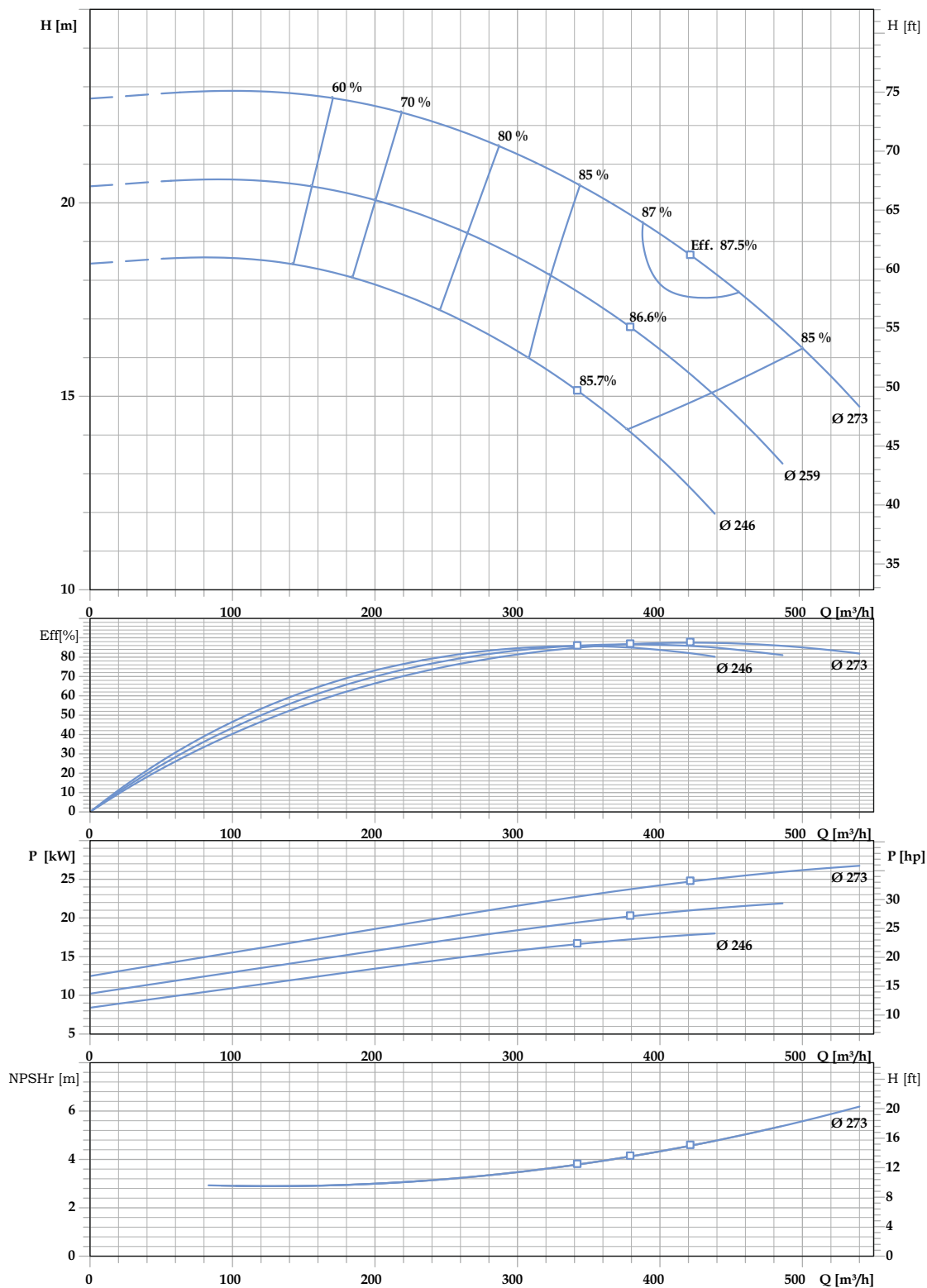
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

Performance Curve

Pump Model : ECW - 150/250

Pump Size in mm : (Suc X Dis X Imp Size) 200 X 150 X 250

Speed : 1450 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
For safety kindly consider a margin of 0.5m higher of NPSH.

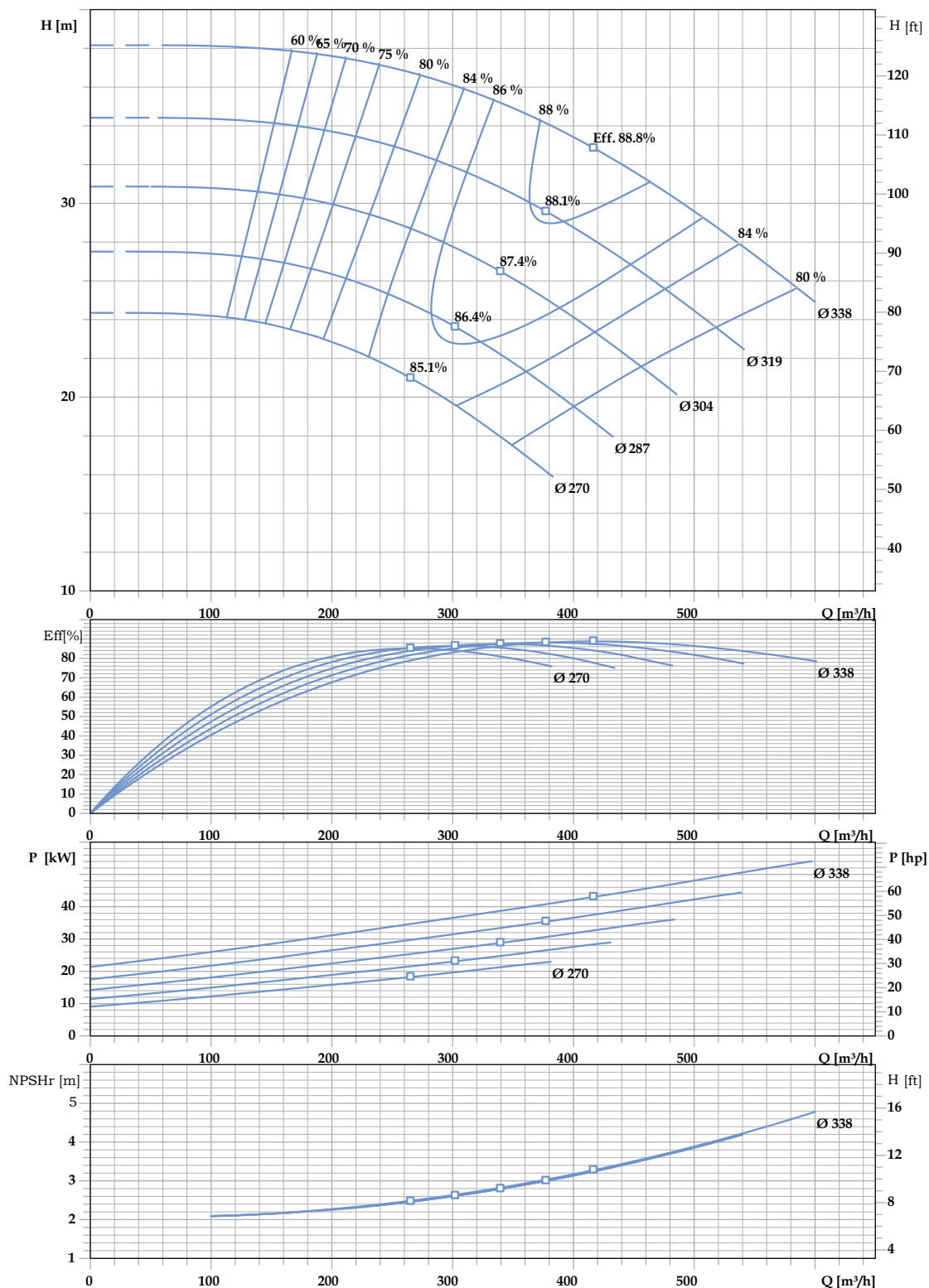
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

Performance Curve

Pump Model : ECW - 150/315

Pump Size in mm : (Suc X Dis X Imp Size) 200 X 150 X 315

Speed : 1450 rpm



Performance to tolerance as per ISO 9906 Grade 2B.
For safety kindly consider a margin of 0.5m higher of NPSH.

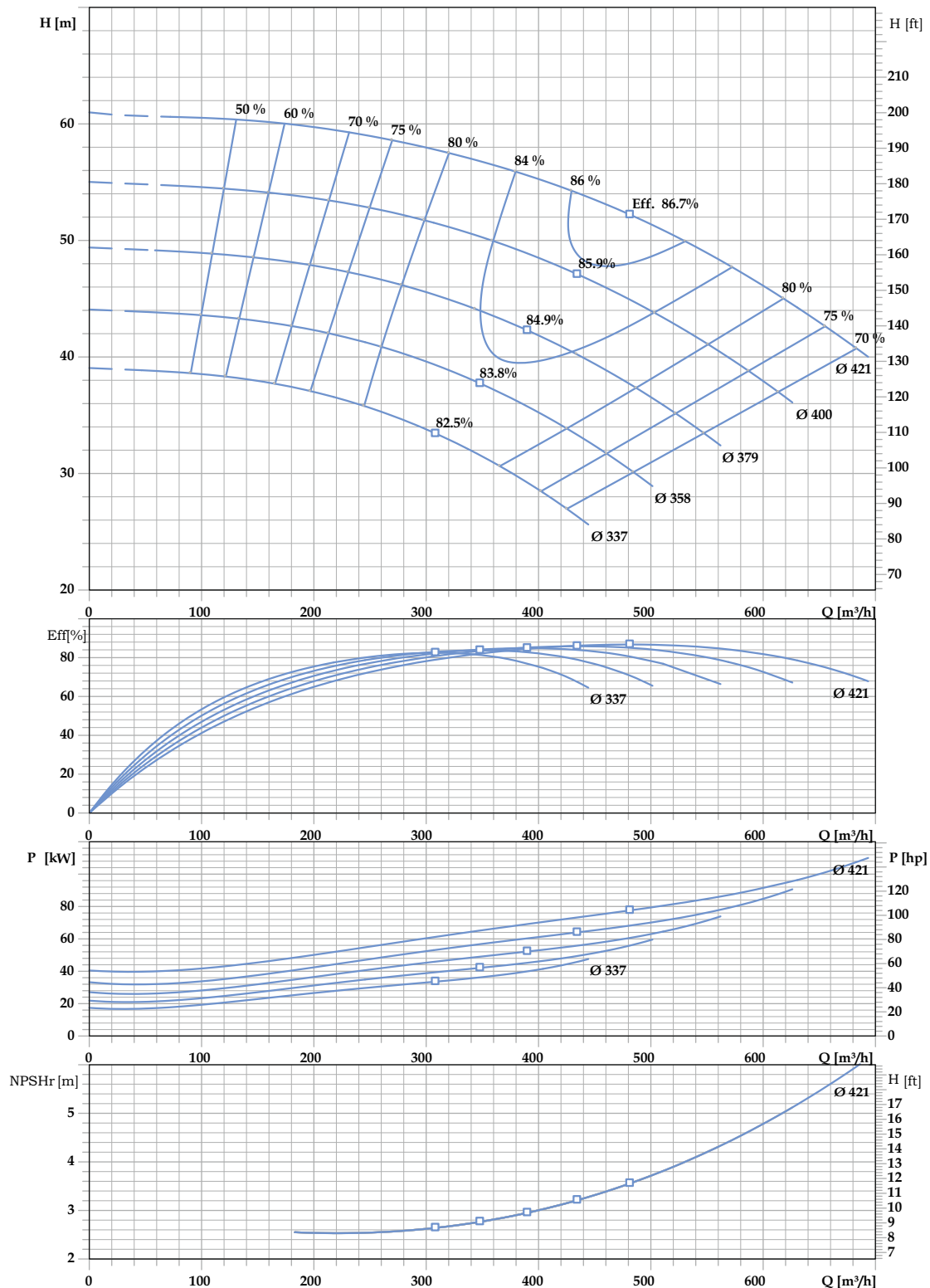
In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

Performance Curve

Pump Model : ECW - 150/400

Pump Size in mm : (Suc X Dis X Imp Size) 200 X 150 X 400

Speed : 1450 rpm



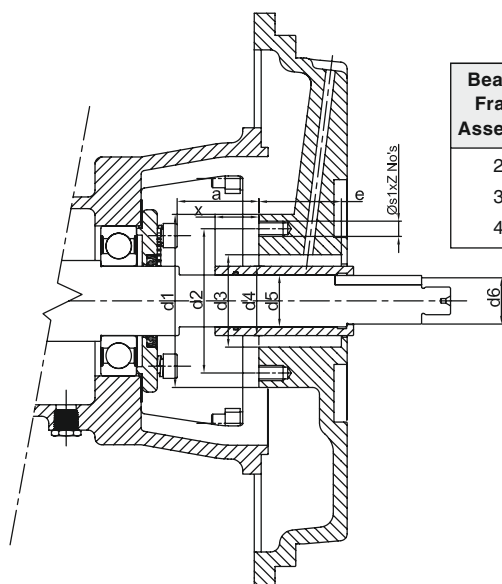
Performance to tolerance as per ISO 9906 Grade 2B.
For safety kindly consider a margin of 0.5m higher of NPSH.

In view of continuous developments the information / Performance / descriptions / specifications / illustrations mentioned in this catalogues are subject to change without notice .

Part No	Part Name
3,02	Stud M16
3,03	Stud M12
3,04	Flat Washer M12
3,05	Hex Nut - M12 x 1.75
3,06	Flat Washer M10
3,07	Nut M16
3,08	Washer M16
18,00	Shaft
18,01	Key - Coupling
18,02	Sleeve Shaft
18,03	Key - Impeller
18,04	Gland Packing
18,05	Lantern Ring
18,06	Split Gland
18,07	Deflector
18,08	O-Ring
18,09	Gasket Sleeve
18,10	Grub Screw
19,00	Impeller
19,02	Impeller Nut

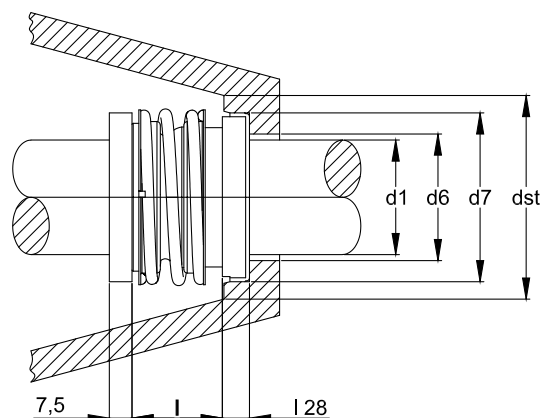
STUFFING BOX DETAILS

Standard Mechanical Seal Housing



Bearing Frame Assembly	x	e	d1	d2	d3	d4	d5	Seal O.D	Gland O.D	L1	OP.Lth	L2	s1xZnos
25	18	60	84	65	51	30	25	49	80~84	3	26.5	7.5	4xM8
32	20	60	94	80	61	38	32	59	92~96	3	30	9	4xM8
42	35	71.5	150	125	80	53	45	78.5	130~135	6	33	11	4xM12

Conical seal housing

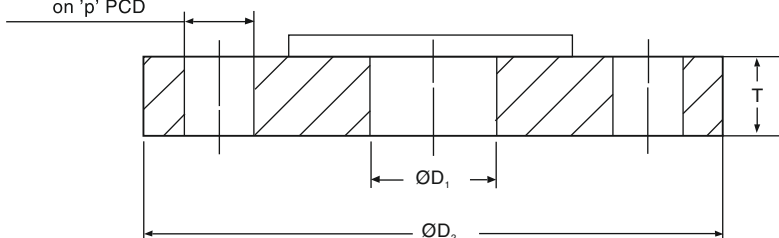


Seal seat	D1	D6	D7	DST	1	128
G60	30	39	45	50	26.5	7.5
G60	38	49	56	61	30	9
G60	53	65	73	81	33	11

Note : Sleeve optional

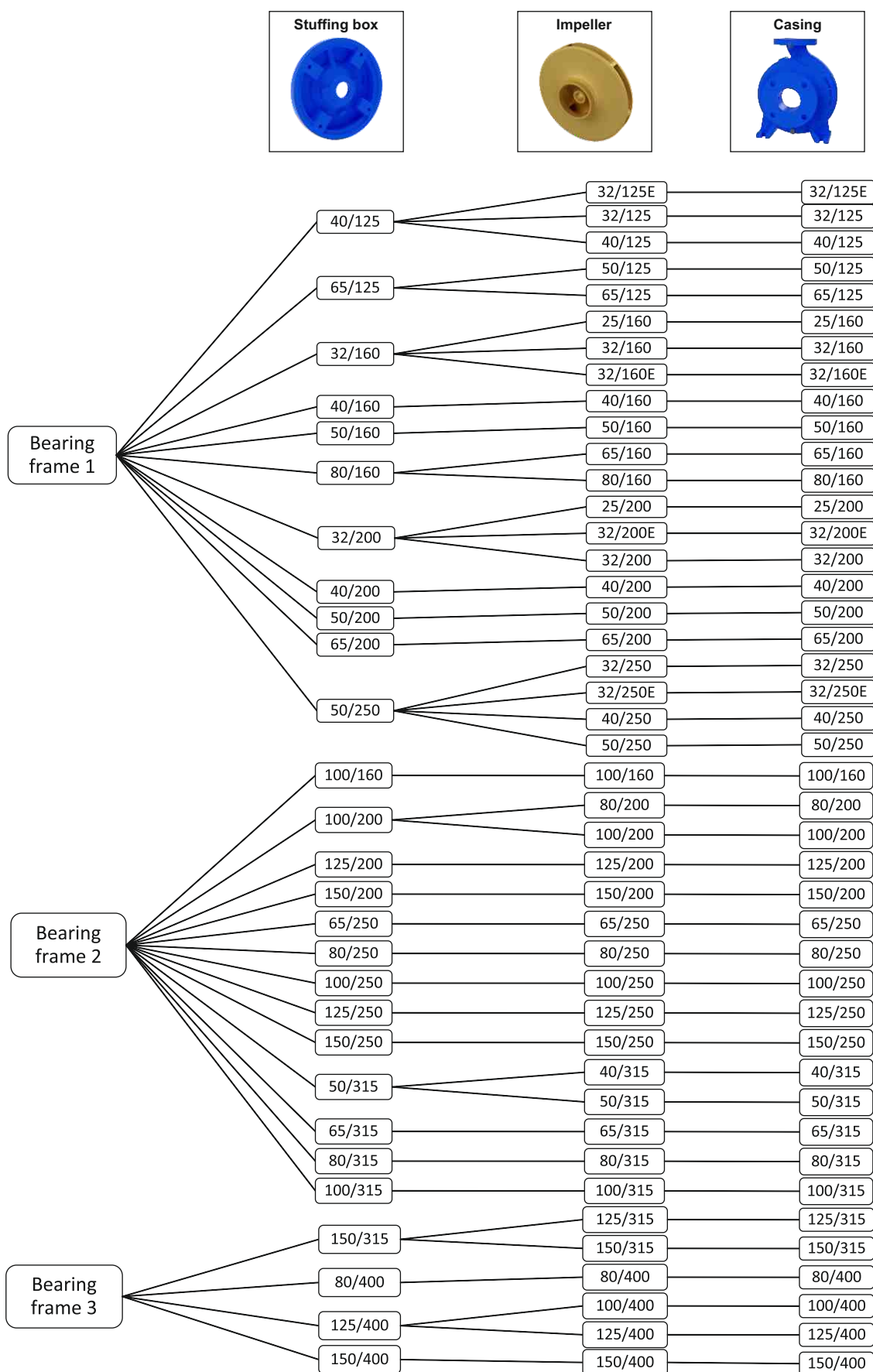
Flange Dimensions - PN 16

Ø d Holes 'n' No's
on 'p' PCD

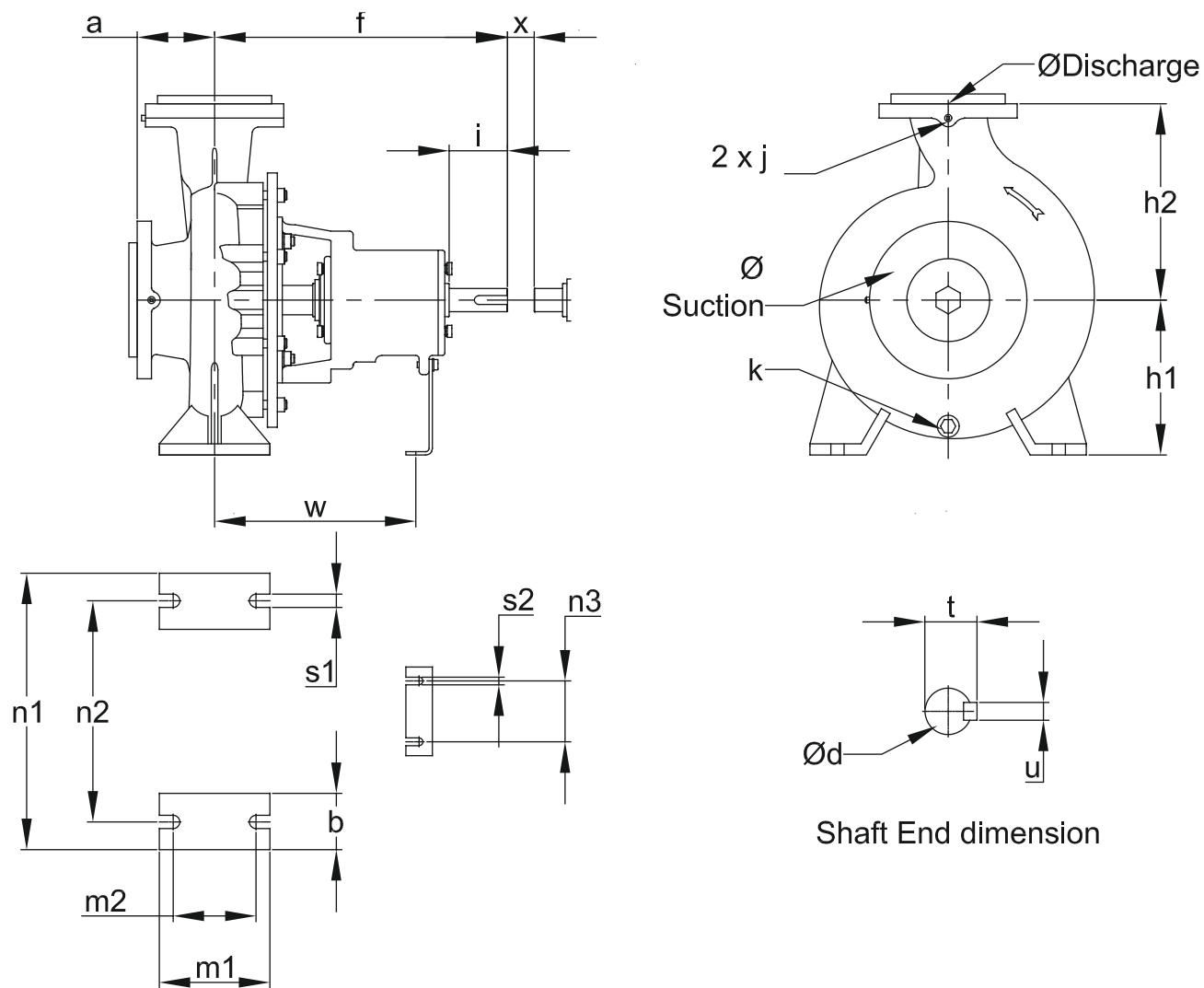


S.No	Ø D1	Ø D2	P	n	Ø d	T
1	25	115	85	4	14	16
2	32	140	100	4	18	18
3	40	150	110	4	18	19
4	50	165	125	4	18	19
5	65	185	145	4	18	20
6	80	200	160	8	18	22
7	100	220	180	8	18	24
8	125	250	210	8	18	19
9	150	285	240	8	22	26

INTERCHANGEABILITY CHART



BARE SHAFT PUMP DIMENSIONS



Note :- Pump with impeller outer diameter above 250mm at 2900rpm is not recommended. On specific demand, pump can be supplied with strengthened shaft and bearing to run at 2900rpm.

BARE PUMP DIMENSIONS

ALL DIMENSIONS ARE IN MM, UNLESS OTHERWISE SPECIFIED

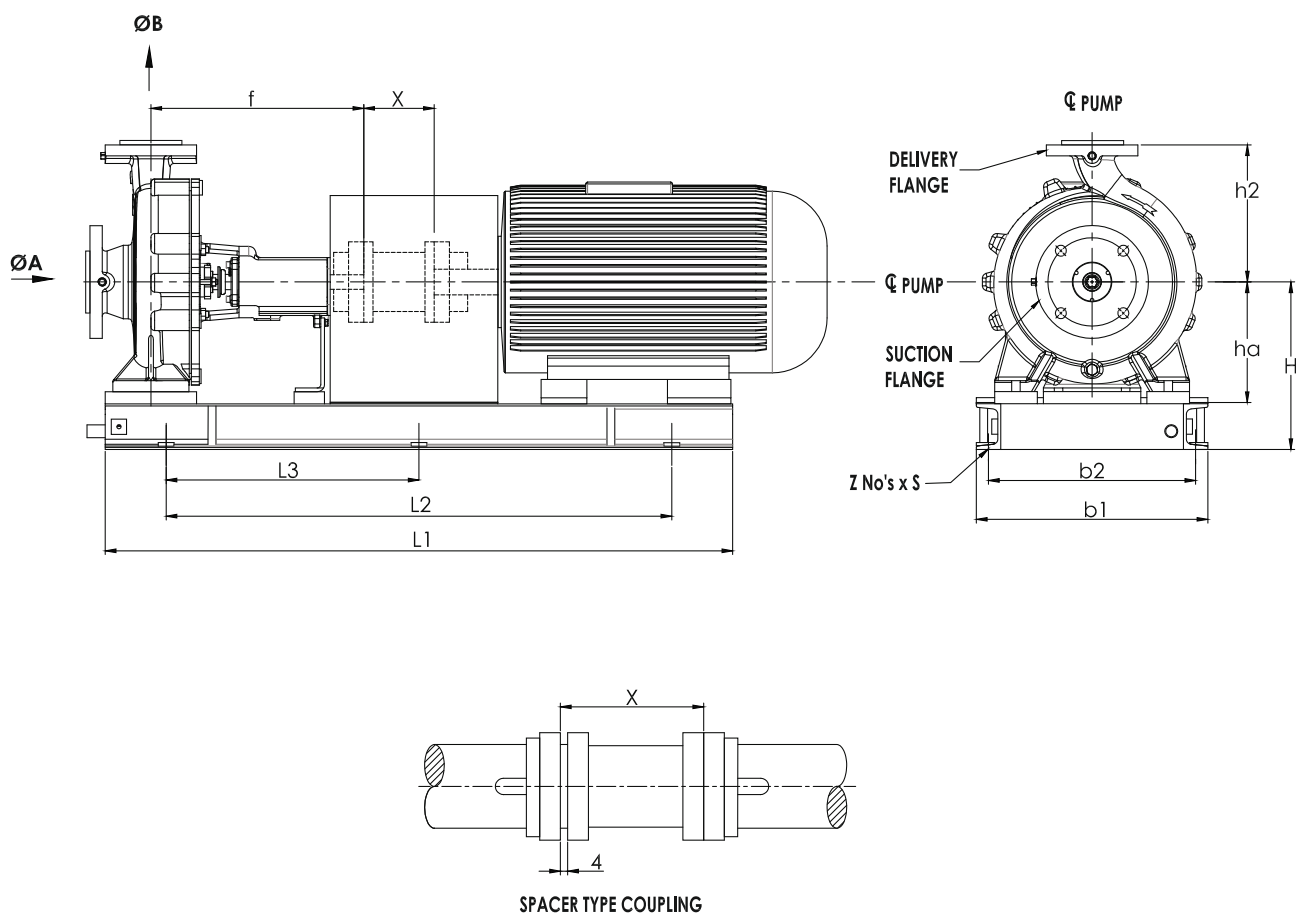
PUMP MODEL	SUC. ØA	DEL. ØB	MAX SPHERE SIZE	PUMP				PUMP MOUNTING DIMENSIONS												SHAFT END					PUMP WEIGHT (kg)	
				a	f	h1	h2	j	k	m1	m2	m3	b	n1	n2	n3	n4	s1	s2	w	i	Ød	u	t		x
32/125E	50	32	6	80	360	112	140	G1/4"	G1/4"	100	70	48	50	190	140	110	160	14	14	260	50	24	8	27	100	28
32/125	50	32	9	80	360	112	140	G1/8"	G1/4"	100	70	48	50	190	140	110	160	14	14	260	50	24	8	27	100	28
40/125	65	40	10	80	360	112	140	G1/8"	G1/4"	100	70	48	50	210	160	110	160	14	14	260	50	24	8	27	100	30
50/125	65	50	9	100	360	132	160	G1/8"	G1/4"	100	70	48	50	240	190	110	160	14	14	260	50	24	8	27	100	32
65/125	80	65	9	100	360	160	180	G1/8"	G1/4"	125	95	48	65	280	212	110	160	14	14	260	50	24	8	27	100	35.5
25/160	40	25	4	80	360	132	160	G1/8"	G1/4"	100	70	48	50	240	190	110	160	14	14	260	50	24	8	27	100	32
32/160	50	32	6.5	80	360	132	160	G1/8"	G1/4"	100	70	48	50	240	190	110	160	14	14	260	50	24	8	27	100	34
32/160E	50	32	5	80	360	132	160	G1/8"	G1/4"	100	70	48	50	240	190	110	160	14	14	260	50	24	8	27	100	33
40/160	65	40	13	80	360	132	160	G1/8"	G1/4"	100	70	48	50	240	190	110	160	14	14	260	50	24	8	27	100	35
50/160	65	50	13	100	360	160	180	G1/8"	G1/4"	100	70	48	50	265	212	110	160	14	14	260	50	24	8	27	100	37
65/160	80	65	11	100	360	160	200	G1/8"	G1/4"	125	95	48	65	280	212	110	160	14	14	260	50	24	8	27	100	35
80/160	100	80	21	125	360	180	225	G1/8"	G3/8"	125	95	48	65	320	250	110	160	14	14	260	50	24	8	27	140	41
25/200	40	25	4	80	360	160	180	G1/4"	G1/4"	100	70	48	50	240	190	110	160	14	14	260	50	24	8	27	100	37
32/200E	50	32	3.6	80	360	160	180	G1/8"	G1/4"	100	70	48	50	240	190	110	160	14	14	260	50	24	8	27	100	38
32/200	50	32	5	80	360	160	180	G1/8"	G1/4"	100	70	48	50	240	190	110	160	14	14	260	50	24	8	27	100	39
40/200	65	40	11	100	360	160	180	G1/8"	G3/8"	100	70	48	50	265	212	110	160	14	14	260	50	24	8	27	100	43
50/200	65	50	16	100	360	160	200	G1/4"	G3/8"	100	70	48	50	265	212	110	160	14	14	260	50	24	8	27	100	44
65/200	80	65	16	100	360	180	225	G1/4"	G3/8"	125	95	48	65	320	250	110	160	14	14	260	50	24	8	27	140	47
32/250	50	32	5.5	100	360	180	225	G1/4"	G3/8"	125	95	48	65	320	250	110	160	14	14	260	50	24	8	27	100	57
32/250E	50	32	5	100	360	180	225	G1/4"	G3/8"	125	95	48	65	320	250	110	160	14	14	260	50	24	8	27	100	56
40/250	65	40	9	100	360	180	225	G1/4"	G3/8"	125	95	48	65	320	250	110	160	14	14	260	50	24	8	27	100	57
50/250	65	50	12	100	360	180	225	G1/4"	G3/8"	125	95	48	65	320	250	110	160	14	14	260	50	24	8	27	100	59

BARE PUMP DIMENSIONS

ALL DIMENSIONS ARE IN MM, UNLESS OTHERWISE SPECIFIED

PUMP MODEL	SUC. ØA	DEL. ØB	MAX SPHERE SIZE	PUMP				PUMP MOUNTING DIMENSIONS										SHAFT END					PUMP WEIGHT (Kg)			
				a	f	h1	h2	j	k	m1	m2	m3	b	n1	n2	n3	n4	s1	s2	w	i	Ød		u	t	x
	125	100	21	125	470	200	280	G1/4"	G3/8"	160	120	48	80	360	280	110	160	19	14	340	102	32	10	35	140	69
	100	80	20	125	470	180	250	G1/4"	G3/8"	125	95	48	65	345	280	110	160	19	14	340	102	32	10	35	140	72
	125	100	20	125	470	200	280	G1/4"	G3/8"	160	120	48	80	360	280	110	160	19	14	340	102	32	10	35	140	81
	150	125	28	140	470	250	315	G1/4"	G1/2"	160	120	48	80	400	315	110	160	19	14	340	102	32	10	35	140	93
	200	150	27	160	470	280	400	G1/4"	G1/2"	200	150	48	100	550	450	110	160	24	14	340	102	32	10	35	140	112
	80	65	16.5	100	470	200	250	G1/4"	G3/8"	160	120	48	80	360	280	110	160	19	14	340	102	32	10	35	140	79
	100	80	24	125	470	200	280	G1/4"	G3/8"	160	120	48	80	400	315	110	160	19	14	340	102	32	10	35	140	86
	125	100	22	140	470	225	280	G1/4"	G1/2"	160	120	48	80	400	315	110	160	19	14	340	102	32	10	35	140	95
	150	125	27	140	470	250	355	G1/4"	G1/2"	160	120	48	80	400	315	110	160	19	14	340	102	32	10	35	140	96
	200	150	31.5	160	470	280	400	G1/4"	G1/2"	200	150	48	100	500	400	110	160	24	14	340	102	32	10	35	140	120
	65	40	8	125	470	225	250	G1/4"	G1/2"	125	95	48	65	345	280	110	160	14	14	340	102	32	10	35	100	91
	65	50	10	125	470	225	280	G1/4"	G1/2"	125	95	48	65	345	280	110	160	14	14	340	102	32	10	35	100	93
	80	65	15.5	125	470	225	280	G1/4"	G1/2"	160	120	48	80	400	315	110	160	19	14	340	102	32	10	35	140	98
	100	80	23	125	470	250	315	G1/4"	G1/2"	160	120	48	80	400	315	110	160	19	14	340	102	32	10	35	140	105
	125	100	27	140	470	250	315	G1/4"	G1/2"	160	120	48	80	400	315	110	160	19	14	340	102	32	10	35	140	115
	150	125	27	140	530	280	355	G1/4"	G1/2"	200	150	48	100	500	400	110	160	24	14	370	110	42	12	45	140	152
	200	150	28	160	530	280	400	G1/4"	G1/2"	200	150	48	100	550	450	110	160	24	14	370	110	42	12	45	140	160
	100	80	16	125	530	280	355	G1/4"	G1/2"	200	120	48	100	435	355	110	160	19	14	370	110	42	12	45	140	162
	125	100	22	140	530	280	355	G1/4"	G1/2"	200	150	48	100	500	400	110	160	24	14	370	110	42	12	45	140	172
	150	125	32.5	140	530	315	400	G1/4"	G1/2"	200	150	48	100	500	400	110	160	24	14	370	110	42	12	45	140	183
	200	150	32.5	160	530	315	450	G1/4"	G1/2"	200	150	48	100	550	450	110	160	24	14	370	110	42	12	45	140	208

PUMPSET DIMENSIONS



PUMPSET BASE PLATE DIMENSIONS

ALL DIMENSIONS ARE IN MM, UNLESS OTHERWISE SPECIFIED

Pump Model	Motor rating (kW)		Motor Frame size	Suction Flange details				Delivery Flange details			
	1450 rpm	2900 rpm		Nominal size (Ø A)	Pitch Circle Diameter	No. Holes	Hole Diameter	Nominal size (Ø B)	Pitch Circle Diameter	No. Holes	Hole Diameter
32/125E	0.55	-	80	50	125	4	18	32	100	4	18
32/125E	-	1.1	80	50	125	4	18	32	100	4	18
32/125E	-	1.5	90S	50	125	4	18	32	100	4	18
32/125E	-	2.2	90L	50	125	4	18	32	100	4	18
32/125E	-	3.7	100L	50	125	4	18	32	100	4	18
32/125	0.55	-	80	50	125	4	18	32	100	4	18
32/125	-	0.55	71	50	125	4	18	32	100	4	18
32/125	-	0.75	80	50	125	4	18	32	100	4	18
32/125	-	1.1	80	50	125	4	18	32	100	4	18
32/125	-	1.5	90S	50	125	4	18	32	100	4	18
32/125	-	2.2	90L	50	125	4	18	32	100	4	18
32/125	-	3.7	100L	50	125	4	18	32	100	4	18
40/125	0.55	-	80	65	125	4	18	32	100	4	18
40/125	-	1.5	90S	65	125	4	18	32	100	4	18
40/125	-	2.2	90L	65	125	4	18	32	100	4	18
40/125	-	3.7	100L	65	125	4	18	32	100	4	18
40/125	-	5.5	112M	65	125	4	18	32	100	4	18
50/125	0.55	-	80	65	125	4	18	32	100	4	18
50/125	0.75	-	80	65	125	4	18	32	100	4	18
50/125	1.1	-	90S	65	125	4	18	32	100	4	18
50/125	-	3.7	100L	65	125	4	18	32	100	4	18
50/125	-	5.5	112M	65	125	4	18	32	100	4	18
50/125	-	7.5	132S	65	125	4	18	32	100	4	18
65/125	0.55	-	80	80	125	4	18	32	100	4	18
65/125	0.75	-	80	80	125	4	18	32	100	4	18
65/125	1.1	-	90S	80	125	4	18	32	100	4	18
65/125	-	5.5	112M	80	125	4	18	32	100	4	18
65/125	-	7.5	132S	80	125	4	18	32	100	4	18
65/125	-	11	160M	80	125	4	18	32	100	4	18
25/160	0.55	-	80	40	125	4	18	32	100	4	18
25/160	-	0.75	80	40	125	4	18	32	100	4	18
25/160	-	1.1	80	40	125	4	18	32	100	4	18
25/160	-	1.5	90S	40	125	4	18	32	100	4	18
25/160	-	2.2	90L	40	125	4	18	32	100	4	18
32/160	0.55	-	80	50	125	4	18	32	100	4	18
32/160	-	1.5	90S	50	125	4	18	32	100	4	18
32/160	-	2.2	90L	50	125	4	18	32	100	4	18
32/160	-	3.7	100L	50	125	4	18	32	100	4	18
32/160	-	5.5	112M	50	125	4	18	32	100	4	18
32/160E	0.55	-	80	50	125	4	18	32	100	4	18
32/160E	-	2.2	90L	50	125	4	18	32	100	4	18
32/160E	-	3.7	100L	50	125	4	18	32	100	4	18
32/160	-	5.5	112M	50	125	4	18	32	100	4	18
E40/160	0.55	-	80	65	125	4	18	32	100	4	18
40/160	0.75	-	80	65	125	4	18	32	100	4	18
40/160	1.1	-	90S	65	125	4	18	32	100	4	18
40/160	-	3.7	100L	65	125	4	18	32	100	4	18
40/160	-	5.5	112M	65	125	4	18	32	100	4	18
40/160	-	7.5	132S	65	125	4	18	32	100	4	18
50/160	0.75	-	80	65	125	4	18	32	100	4	18
50/160	1.1	-	90S	65	125	4	18	32	100	4	18
50/160	1.5	-	90L	65	125	4	18	32	100	4	18
50/160	-	5.5	112M	65	125	4	18	32	100	4	18
50/160	-	7.5	132S	65	125	4	18	32	100	4	18
50/160	-	11	160M	65	125	4	18	32	100	4	18
65/160	1.1	-	90S	80	125	4	18	32	100	4	18
65/160	1.5	-	90L	80	125	4	18	32	100	4	18
65/160	2.2	-	100L	80	125	4	18	32	100	4	18
65/160	-	7.5	132S	80	125	4	18	32	100	4	18
65/160	-	11	160M	80	125	4	18	32	100	4	18
65/160	-	15	160M	80	125	4	18	32	100	4	18
80/160	1.5	-	90L	100	125	4	18	32	100	4	18
80/160	2.2	-	100L	100	125	4	18	32	100	4	18
80/160	3.7	-	112M	100	125	4	18	32	100	4	18
80/160	-	15	160M	100	125	4	18	32	100	4	18
80/160	-	18.5	160M/L	100	125	4	18	32	100	4	18
80/160	-	22	180M	100	125	4	18	32	100	4	18
80/160	-	30	200L	100	125	4	18	32	100	4	18
25/200	0.55	-	80	40	125	4	18	32	100	4	18
25/200	0.75	-	80	40	125	4	18	32	100	4	18
25/200	1.1	-	90S	40	125	4	18	32	100	4	18
25/200	-	1.5	90S	40	125	4	18	32	100	4	18

PUMPSET BASE PLATE DIMENSIONS

Pump General Dimension				Pump Set General Dimension				Foundation Dimention				Spacer Coupling
a	b1	b2	f	H	h1	h2	L1	L2	L3	Z No's	S	X
80	250	220	360	207	132	140	745	545	-	4	14	100
80	250	220	360	207	132	140	745	545	-	4	14	100
80	280	250	360	207	132	140	750	550	-	4	14	100
80	280	250	360	207	132	140	780	580	-	4	14	100
80	280	250	360	207	132	140	830	630	-	4	14	100
80	250	220	360	207	132	140	745	545	-	4	14	100
80	250	220	360	207	132	140	720	520	-	4	14	100
80	250	220	360	207	132	140	745	545	-	4	14	100
80	250	220	360	207	132	140	745	545	-	4	14	100
80	280	250	360	207	132	140	750	550	-	4	14	100
80	280	250	360	207	132	140	780	580	-	4	14	100
80	280	250	360	207	132	140	830	630	-	4	14	100
80	250	220	360	207	132	140	745	545	-	4	14	100
80	280	250	360	207	132	140	750	550	-	4	14	100
80	280	250	360	207	132	140	780	580	-	4	14	100
80	280	250	360	207	132	140	830	630	-	4	14	100
80	310	280	360	207	132	140	830	630	-	4	14	100
100	240	210	360	227	152	160	750	550	-	4	14	100
100	240	210	360	227	152	160	750	550	-	4	14	100
100	240	210	360	227	152	160	765	565	-	4	14	100
100	280	250	360	227	152	160	825	625	-	4	14	100
100	240	210	360	227	152	160	830	630	-	4	14	100
100	320	290	360	227	152	160	900	700	350	6	14	100
100	330	300	360	255	180	180	760	560	-	4	14	100
100	330	300	360	255	180	180	760	560	-	4	14	100
100	330	300	360	255	180	180	775	575	-	4	14	100
100	330	300	360	255	180	180	840	640	-	4	14	100
100	330	300	360	255	180	180	880	680	340	6	14	100
100	380	350	360	255	180	180	1000	800	-	4	14	100
80	240	210	360	227	152	160	750	550	-	4	14	100
80	240	210	360	227	152	160	750	550	-	4	14	100
80	240	210	360	227	152	160	750	550	-	4	14	100
80	240	210	360	227	152	160	765	565	-	4	14	100
80	240	210	360	227	152	160	790	590	-	4	14	100
80	240	210	360	227	152	160	750	550	-	4	14	100
80	240	210	360	227	152	160	765	565	-	4	14	100
80	240	210	360	227	152	160	790	590	-	4	14	100
80	240	210	360	227	152	160	825	625	-	4	14	100
80	240	210	360	227	152	160	830	630	-	4	14	100
80	240	210	360	227	152	160	750	550	-	4	14	100
80	240	210	360	227	152	160	790	590	-	4	14	100
80	240	210	360	227	152	160	825	625	-	4	14	100
80	240	210	360	227	152	160	830	630	-	4	14	100
80	240	210	360	227	152	160	750	550	-	4	14	100
80	240	210	360	227	152	160	790	590	-	4	14	100
80	240	210	360	227	152	160	825	625	-	4	14	100
80	240	210	360	227	152	160	830	630	-	4	14	100
80	240	210	360	227	152	160	750	550	-	4	14	100
80	240	210	360	227	152	160	790	590	-	4	14	100
80	240	210	360	227	152	160	825	625	-	4	14	100
80	240	210	360	227	152	160	830	630	-	4	14	100
100	272	242	360	255	180	180	750	550	-	4	14	100
100	272	242	360	255	180	180	770	570	-	4	14	100
100	272	242	360	255	180	180	795	595	-	4	14	100
100	272	242	360	255	180	180	830	630	-	4	14	100
100	272	242	360	255	180	180	910	710	-	4	14	100
100	430	400	360	255	180	180	990	790	395	6	14	100
100	330	300	360	255	180	200	775	575	-	4	14	100
100	330	300	360	255	180	200	800	600	-	4	14	100
100	330	300	360	255	180	200	835	635	-	4	14	100
100	330	300	360	255	180	200	880	680	340	6	14	100
100	330	350	360	255	180	200	1000	800	400	6	14	100
100	330	350	360	255	180	200	1000	800	400	6	14	100
125	380	350	360	275	200	225	850	650	-	4	14	140
125	380	350	360	275	200	225	880	680	340	6	14	140
125	380	350	360	275	200	225	890	690	345	6	14	140
125	380	350	360	275	200	225	1045	845	422.5	6	14	140
125	380	350	360	275	200	225	1070	870	435	6	14	140
125	400	370	360	275	200	225	1090	890	445	6	14	140
125	440	410	360	295	200	225	1165	965	482.5	6	14	140
80	300	270	360	255	180	180	750	550	-	4	14	100
80	300	270	360	255	180	180	750	550	-	4	14	100
80	300	270	360	255	180	180	790	590	-	4	14	100
80	300	270	360	255	180	180	790	590	-	4	14	100

PUMPSET BASE PLATE DIMENSIONS

Pump Model	Motor rating (kW)		Motor Frame size	Suction Flange details				Delivery Flange details			
	1450 rpm	2900 rpm		Nominal size (Ø A)	Pitch Circle Diameter	No. Holes	Hole Diameter	Nominal size (Ø B)	Pitch Circle Diameter	No. Holes	Hole Diameter
25/200	-	2.2	90L	40	125	4	18	32	100	4	18
25/200	-	3.7	100L	40	125	4	18	32	100	4	18
25/200	-	5.5	112M	40	125	4	18	32	100	4	18
32/200E	0.55	-	80	50	125	4	18	32	100	4	18
32/200E	0.75	-	80	50	125	4	18	32	100	4	18
32/200E	1.1	-	90S	50	125	4	18	32	100	4	18
32/200E	-	5.5	112M	50	125	4	18	32	100	4	18
32/200E	-	7.5	132S	50	125	4	18	32	100	4	18
32/200E	-	11	160M	50	125	4	18	32	100	4	18
32/200	0.55	-	80	50	125	4	18	32	100	4	18
32/200	0.75	-	80	50	125	4	18	32	100	4	18
32/200	1.1	-	90S	50	125	4	18	32	100	4	18
32/200	-	3.7	100L	50	125	4	18	32	100	4	18
32/200	-	5.5	112M	50	125	4	18	32	100	4	18
32/200	-	7.5	132S	50	125	4	18	32	100	4	18
40/200	0.75	-	80	65	125	4	18	32	100	4	18
40/200	1.1	-	90S	65	125	4	18	32	100	4	18
40/200	1.5	-	90L	65	125	4	18	32	100	4	18
40/200	-	5.5	112M	65	125	4	18	32	100	4	18
40/200	-	7.5	132S	65	125	4	18	32	100	4	18
40/200	-	11	160M	65	125	4	18	32	100	4	18
40/200	-	15	160M	65	125	4	18	32	100	4	18
40/200	-	18.5	160M/L	65	125	4	18	32	100	4	18
40/200	-	22	180M	65	125	4	18	32	100	4	18
50/200	1.5	-	90L	65	125	4	18	32	100	4	18
50/200	2.2	-	100L	65	125	4	18	32	100	4	18
50/200	3.7	-	112M	65	125	4	18	32	100	4	18
50/200	-	11	160M	65	125	4	18	32	100	4	18
50/200	-	15	160M	65	125	4	18	32	100	4	18
50/200	-	18.5	160M/L	65	125	4	18	32	100	4	18
50/200	-	22	180M	65	125	4	18	32	100	4	18
65/200	2.2	-	100L	80	125	4	18	32	100	4	18
65/200	3.7	-	112M	80	125	4	18	32	100	4	18
65/200	5.5	-	132S	80	125	4	18	32	100	4	18
65/200	-	15	160M	80	125	4	18	32	100	4	18
65/200	-	18.5	160M/L	80	125	4	18	32	100	4	18
65/200	-	22	180M	80	125	4	18	32	100	4	18
65/200	-	30	200L	80	125	4	18	32	100	4	18
32/250	0.75	-	80	50	125	4	18	32	100	4	18
32/250	1.1	-	90S	50	125	4	18	32	100	4	18
32/250	1.5	-	90L	50	125	4	18	32	100	4	18
32/250	2.2	-	100L	50	125	4	18	32	100	4	18
32/250	-	5.5	112M	50	125	4	18	32	100	4	18
32/250	-	7.5	132S	50	125	4	18	32	100	4	18
32/250	-	11	160M	50	125	4	18	32	100	4	18
32/250	-	15	160M	50	125	4	18	32	100	4	18
32/250E	1.1	-	90S	50	125	4	18	32	100	4	18
32/250E	1.5	-	90L	50	125	4	18	32	100	4	18
32/250E	2.2	-	100L	50	125	4	18	32	100	4	18
32/250E	-	7.5	132S	50	125	4	18	32	100	4	18
32/250E	-	11	160M	50	125	4	18	32	100	4	18
32/250E	-	15	160M	50	125	4	18	32	100	4	18
40/250	1.1	-	90S	65	125	4	18	32	100	4	18
40/250	1.5	-	90L	65	125	4	18	32	100	4	18
40/250	2.2	-	100L	65	125	4	18	32	100	4	18
40/250	3.7	-	112M	65	125	4	18	32	100	4	18
40/250	-	11	160M	65	125	4	18	32	100	4	18
40/250	-	15	160M	65	125	4	18	32	100	4	18
40/250	-	18.5	160M/L	65	125	4	18	32	100	4	18
40/250	-	22	180M	65	125	4	18	32	100	4	18
40/250	-	30	200L	65	125	4	18	32	100	4	18
50/250	2.2	-	100L	65	125	4	18	32	100	4	18
50/250	3.7	-	112M	65	125	4	18	32	100	4	18
50/250	5.5	-	132S	65	125	4	18	32	100	4	18
50/250	-	15	160M	65	125	4	18	32	100	4	18
50/250	-	18.5	160M/L	65	125	4	18	32	100	4	18
50/250	-	22	180M	65	125	4	18	32	100	4	18
50/250	-	30	200L	65	125	4	18	32	100	4	18
50/250	-	37	200L	65	125	4	18	32	100	4	18
100/160	3.7	-	112M	125	125	4	18	32	100	4	18
100/160	5.5	-	132S	125	125	4	18	32	100	4	18
100/160	-	22	180M	125	125	4	18	32	100	4	18

PUMPSET BASE PLATE DIMENSIONS

Pump General Dimension				Pump Set General Dimension				Foundation Dimention				Spacer Coupling
a	b1	b2	f	H	h1	h2	L1	L2	L3	Z No's	S	X
80	300	270	360	255	180	180	790	590	-	4	14	100
80	300	270	360	255	180	180	830	630	-	4	14	100
80	300	270	360	255	180	180	830	630	-	4	14	100
80	300	270	360	255	180	180	750	550	-	4	14	100
80	300	270	360	255	180	180	750	550	-	4	14	100
80	300	270	360	255	180	180	790	590	-	4	14	100
80	300	270	360	255	180	180	830	630	-	4	14	100
80	300	270	360	255	180	180	870	670	-	4	14	100
80	380	350	360	255	180	180	1000	800	400	6	14	100
80	300	270	360	255	180	180	750	550	-	4	14	100
80	300	270	360	255	180	180	750	550	-	4	14	100
80	300	270	360	255	180	180	790	590	-	4	14	100
80	300	270	360	255	180	180	830	630	-	4	14	100
80	300	270	360	255	180	180	830	630	-	4	14	100
80	300	270	360	255	180	180	870	670	-	4	14	100
100	272	242	360	255	180	180	750	550	-	4	14	100
100	272	242	360	255	180	180	770	570	-	4	14	100
100	272	242	360	255	180	180	795	595	-	4	14	100
100	272	242	360	255	180	180	830	630	-	4	14	100
100	272	242	360	255	180	180	910	710	-	4	14	100
100	430	400	360	255	180	180	990	790	395	6	14	100
100	430	400	360	255	180	180	990	790	395	6	14	100
100	430	400	360	255	180	180	1040	840	420	6	14	100
100	430	400	360	275	180	180	1040	840	420	6	14	100
100	272	242	360	255	180	200	795	595	-	4	14	100
100	272	242	360	255	180	200	825	625	-	4	14	100
100	272	242	360	255	180	200	930	630	-	4	14	100
100	430	400	360	255	180	200	990	790	395	6	14	100
100	430	400	360	255	180	200	990	790	395	6	14	100
100	430	400	360	255	180	200	1040	840	420	6	14	100
100	430	400	360	255	180	200	1040	840	420	6	14	100
100	380	350	360	275	200	225	880	680	340	6	14	140
100	380	350	360	275	200	225	890	690	345	6	14	140
100	380	350	360	275	200	225	930	730	365	6	14	140
100	380	350	360	275	200	225	1045	845	422.5	6	14	140
100	380	350	360	275	200	225	1070	970	435	6	14	140
100	400	370	360	275	200	225	1090	990	445	6	14	140
100	440	410	360	295	200	225	1165	965	482.5	6	14	140
100	380	350	360	275	200	225	770	570	-	4	14	100
100	380	350	360	275	200	225	785	585	-	4	14	100
100	380	350	360	275	200	225	810	610	-	4	14	100
100	380	350	360	275	200	225	540	640	320	6	14	100
100	380	350	360	275	200	225	850	650	325	6	14	100
100	380	350	360	275	200	225	890	690	345	6	14	100
100	380	350	360	275	200	225	1005	805	402.5	6	14	100
100	380	350	360	275	200	225	1005	805	402.5	6	14	100
100	380	350	360	275	200	225	785	585	-	4	14	100
100	380	350	360	275	200	225	810	610	-	4	14	100
100	380	350	360	275	200	225	840	64	320	6	14	100
100	380	350	360	275	200	225	890	690	345	6	14	100
100	380	350	360	275	200	225	1005	805	402.5	6	14	100
100	380	350	360	275	200	225	1005	805	402.5	6	14	100
100	380	350	360	275	200	225	785	585	-	4	14	100
100	380	350	360	275	200	225	810	610	-	4	14	100
100	380	350	360	275	200	225	840	640	320	6	14	100
100	380	350	360	275	200	225	850	650	325	6	14	100
100	380	350	360	275	200	225	1005	805	402.5	6	14	100
100	380	350	360	275	200	225	1005	805	402.5	6	14	100
100	380	350	360	275	200	225	1030	830	415	6	14	100
100	400	370	360	275	200	225	1050	850	425	6	14	100
100	440	410	360	295	200	225	1125	925	462.5	6	14	100
100	380	350	360	275	200	225	840	640	320	6	14	100
100	380	350	360	275	200	225	850	650	325	6	14	100
100	380	350	360	275	200	225	890	690	345	6	14	100
100	380	350	360	275	200	225	1005	805	402.5	6	14	100
100	380	350	360	275	200	225	1030	830	415	6	14	100
100	400	370	360	295	200	225	1050	850	425	6	14	100
100	440	410	360	295	200	225	1125	925	462.5	6	14	100
100	440	410	360	275	200	225	1125	925	462.5	6	14	100
125	380	350	470	295	220	280	1010	810	405	6	14	140
125	380	350	470	295	220	280	1070	870	435	6	14	140
125	410	380	470	295	220	280	1235	1035	517.5	6	14	140

PUMPSET BASE PLATE DIMENSIONS

Pump Model	Motor rating (kW)		Motor Frame size	Suction Flange details				Delivery Flange details			
	1450 rpm	2900 rpm		Nominal size (Ø A)	Pitch Circle Diameter	No. Holes	Hole Diameter	Nominal size (Ø B)	Pitch Circle Diameter	No. Holes	Hole Diameter
100/160	-	30	200L	125	125	4	18	32	100	4	18
100/160	-	37	200L	125	125	4	18	32	100	4	18
80/200	2.2	-	100L	100	125	4	18	32	100	4	18
80/200	3.7	-	112M	100	125	4	18	32	100	4	18
80/200	5.5	-	132S	100	125	4	18	32	100	4	18
80/200	-	18.5	160M/L	100	125	4	18	32	100	4	18
80/200	-	22	180M	100	125	4	18	32	100	4	18
80/200	-	30	200L	100	125	4	18	32	100	4	18
80/200	-	37	200L	100	125	4	18	32	100	4	18
80/200	-	45	225M	100	125	4	18	32	100	4	18
100/200	5.5	-	132S	125	125	4	18	32	100	4	18
100/200	7.5	-	132M	125	125	4	18	32	100	4	18
100/200	-	30	200L	125	125	4	18	32	100	4	18
100/200	-	37	200L	125	125	4	18	32	100	4	18
100/200	-	45	225M	125	125	4	18	32	100	4	18
100/200	-	55	250M	125	125	4	18	32	100	4	18
100/200	-	75	280S	125	125	4	18	32	100	4	18
125/200	7.5	-	132M	150	125	4	18	32	100	4	18
125/200	11	-	160M	150	125	4	18	32	100	4	18
125/200	15	-	160M/L	150	125	4	18	32	100	4	18
125/200	-	55	250M	150	125	4	18	32	100	4	18
125/200	-	75	280S	150	125	4	18	32	100	4	18
125/200	-	90	280M	150	125	4	18	32	100	4	18
125/200	-	110	315S	150	125	4	18	32	100	4	18
150/200	11	-	160M	200	125	4	18	32	100	4	18
150/200	15	-	160M/L	200	125	4	18	32	100	4	18
65/250	3.7	-	112M	80	125	4	18	32	100	4	18
65/250	5.5	-	132S	80	125	4	18	32	100	4	18
65/250	-	22	180M	80	125	4	18	32	100	4	18
65/250	-	30	200L	80	125	4	18	32	100	4	18
65/250	-	37	200L	80	125	4	18	32	100	4	18
65/250	-	45	225M	80	125	4	18	32	100	4	18
80/250	5.5	-	132S	100	125	4	18	32	100	4	18
80/250	7.5	-	132M	100	125	4	18	32	100	4	18
80/250	11	-	160M	100	125	4	18	32	100	4	18
80/250	-	30	200L	100	125	4	18	32	100	4	18
80/250	-	37	200L	100	125	4	18	32	100	4	18
80/250	-	45	225M	100	125	4	18	32	100	4	18
80/250	-	55	250M	100	125	4	18	32	100	4	18
80/250	-	75	280S	100	125	4	18	32	100	4	18
100/250	7.5	-	132M	125	125	4	18	32	100	4	18
100/250	11	-	160M	125	125	4	18	32	100	4	18
100/250	15	-	160M/L	125	125	4	18	32	100	4	18
100/250	-	55	250M	125	125	4	18	32	100	4	18
100/250	-	75	280S	125	125	4	18	32	100	4	18
100/250	-	90	280M	125	125	4	18	32	100	4	18
100/250	-	110	315S	125	125	4	18	32	100	4	18
125/250	11	-	160M	150	125	4	18	32	100	4	18
125/250	15	-	160M/L	150	125	4	18	32	100	4	18
125/250	18.5	-	180M	150	125	4	18	32	100	4	18
125/250	-	75	280S	150	125	4	18	32	100	4	18
125/250	-	90	280M	150	125	4	18	32	100	4	18
125/250	-	110	315S	150	125	4	18	32	100	4	18
125/250	-	132	315M	150	125	4	18	32	100	4	18
150/250	15	-	160M/L	200	125	4	18	32	100	4	18
150/250	18.5	-	180M	200	125	4	18	32	100	4	18
150/250	22	-	180M/L	200	125	4	18	32	100	4	18
150/250	30	-	200L	200	125	4	18	32	100	4	18
150/250	-	110	315S	200	125	4	18	32	100	4	18
150/250	-	132	315M	200	125	4	18	32	100	4	18
150/250	-	160	315L	200	125	4	18	32	100	4	18
150/250	-	200	315L	200	125	4	18	32	100	4	18
40/315	2.2	-	100L	65	125	4	18	32	100	4	18
40/315	3.7	-	112M	65	125	4	18	32	100	4	18
40/315	5.5	-	132S	65	125	4	18	32	100	4	18
40/315	-	18.5	160M/L	65	125	4	18	32	100	4	18
40/315	-	22	180M	65	125	4	18	32	100	4	18
40/315	-	30	200L	65	125	4	18	32	100	4	18
40/315	-	37	200L	65	125	4	18	32	100	4	18
40/315	-	45	225M	65	125	4	18	32	100	4	18
50/315	3.7	-	112M	65	125	4	18	32	100	4	18
50/315	5.5	-	132S	65	125	4	18	32	100	4	18

PUMPSET BASE PLATE DIMENSIONS

Pump General Dimension				Pump Set General Dimension				Foundation Dimention				Spacer Coupling
a	b1	b2	f	H	h1	h2	L1	L2	L3	Z No's	S	X
125	450	420	470	300	225	280	1285	1085	542.5	6	14	140
125	450	420	470	300	225	280	1285	1085	542.5	6	14	140
125	390	360	470	275	200	250	995	795	-	4	14	140
125	390	360	470	275	200	250	995	795	-	4	14	140
125	390	360	470	275	200	250	1035	835	-	4	14	140
125	390	360	470	275	200	250	1182	982	491	6	14	140
125	390	360	470	275	200	250	1200	1000	500	6	14	140
125	430	400	470	295	200	250	1275	1075	537.5	6	14	140
125	430	400	470	295	200	250	1275	1075	537.5	6	14	140
125	510	480	470	345	205	250	1410	1210	605	6	18	140
125	380	350	470	295	220	280	1070	870	435	6	14	140
125	380	350	470	295	220	280	1070	870	435	6	14	140
125	450	420	470	300	225	280	1285	1085	542.5	6	14	140
125	450	420	470	300	225	280	1285	1085	542.5	6	14	140
125	510	480	470	350	220	280	1435	1235	617.5	6	18	140
125	550	520	470	375	220	280	1500	1300	650	6	18	140
125	620	590	470	405	20	280	1600	1400	700	6	18	140
140	420	390	470	345	270	315	1070	870	435	6	14	140
140	420	390	470	345	270	315	1165	965	482.5	6	14	140
140	420	390	470	345	270	315	1210	1010	505	6	14	140
140	575	545	470	370	270	315	1500	1300	650	6	18	140
140	620	590	470	405	270	315	1600	1400	700	6	18	140
140	620	590	470	405	270	315	1600	1400	700	6	18	140
140	700	670	470	440	270	315	1700	1500	750	6	18	140
160	600	570	470	405	305	400	1180	980	490	6	18	140
160	600	570	470	405	305	400	1210	1010	505	6	18	140
100	380	350	470	295	220	250	1010	810	405	6	14	140
100	380	350	470	295	220	250	1070	870	435	6	14	140
100	410	380	470	295	220	250	1235	1035	517.5	6	14	140
100	450	420	470	300	225	250	1285	1085	542.5	6	14	140
100	450	420	470	300	225	250	1285	1085	542.5	6	14	140
100	510	480	470	350	220	250	1435	1235	617.5	6	18	140
125	420	390	470	295	220	280	1070	870	435	6	14	140
125	420	390	470	295	220	280	1070	870	435	6	14	140
125	420	390	470	295	220	280	1165	965	482.5	6	14	140
125	450	420	470	300	225	280	1285	1085	542.5	6	14	140
125	450	420	470	300	225	280	1285	1085	542.5	6	14	140
125	510	480	470	350	220	280	1435	1235	617.5	6	18	140
125	550	520	470	375	220	280	1500	1300	650	6	18	140
125	620	590	470	405	220	280	1600	1400	700	6	18	140
140	420	390	470	320	245	280	1070	870	435	6	14	140
140	420	390	470	320	245	280	1165	965	482.5	6	14	140
140	420	390	470	320	245	280	1210	1010	505	6	14	140
140	575	545	470	375	245	280	1500	1300	650	6	18	140
140	620	590	470	405	245	280	1600	1400	700	6	18	140
140	620	590	470	405	245	280	1600	1400	700	6	18	140
140	700	670	470	440	245	280	1700	1500	750	6	18	140
140	420	390	470	345	270	355	1165	965	482.5	6	14	140
140	420	390	470	345	270	355	1210	1010	505	6	14	140
140	420	390	470	345	270	355	1210	1010	505	6	14	140
140	620	590	470	405	270	355	1600	1400	700	6	18	140
140	620	590	470	405	270	355	1600	1400	700	6	18	140
140	700	670	470	440	270	355	1700	1500	750	6	18	140
140	700	670	470	440	270	355	1700	1500	750	6	18	140
160	550	520	470	405	305	400	1210	1010	505	6	18	140
160	550	520	470	405	305	400	1230	1030	515	6	18	140
160	550	520	470	405	305	400	1250	1050	525	6	18	140
160	550	520	470	405	305	400	1300	1100	550	6	18	140
160	690	660	470	435	305	400	1670	1470	735	6	18	140
160	690	660	470	435	305	400	1670	1470	735	6	18	140
160	690	660	470	435	305	400	1730	1530	765	6	18	140
160	690	660	470	435	305	400	1730	1530	765	6	18	140
125	390	360	470	320	245	250	960	760	-	4	14	100
125	390	360	470	320	245	250	960	760	-	4	14	100
125	390	360	470	320	245	250	1000	800	-	4	14	100
125	390	360	470	320	245	250	1150	950	475	6	14	100
125	390	360	470	320	245	250	1160	960	480	6	14	100
125	430	400	470	320	245	250	1240	1040	520	6	14	100
125	430	400	470	320	245	250	1240	1040	520	6	14	100
125	510	474	470	345	245	250	1370	1170	585	6	18	100
125	390	360	470	320	245	280	960	760	-	4	14	100
125	390	360	470	320	245	280	1000	800	-	4	14	100

PUMPSET BASE PLATE DIMENSIONS

Pump Model	Motor rating (kW)		Motor Frame size	Suction Flange details				Delivery Flange details			
	1450 rpm	2900 rpm		Nominal size (Ø A)	Pitch Circle Diameter	No. Holes	Hole Diameter	Nominal size (Ø B)	Pitch Circle Diameter	No. Holes	Hole Diameter
50/315	7.5	-	132M	65	125	4	18	32	100	4	18
50/315	-	22	180M	65	125	4	18	32	100	4	18
50/315	-	30	200L	65	125	4	18	32	100	4	18
50/315	-	37	200L	65	125	4	18	32	100	4	18
50/315	-	45	225M	65	125	4	18	32	100	4	18
50/315	-	55	250M	65	125	4	18	32	100	4	18
50/315	-	75	280S	65	125	4	18	32	100	4	18
65/315	5.5	-	132S	80	125	4	18	32	100	4	18
65/315	7.5	-	132M	80	125	4	18	32	100	4	18
65/315	11	-	160M	80	125	4	18	32	100	4	18
65/315	-	30	200L	80	125	4	18	32	100	4	18
65/315	-	37	200L	80	125	4	18	32	100	4	18
65/315	-	45	225M	80	125	4	18	32	100	4	18
65/315	-	55	250M	80	125	4	18	32	100	4	18
65/315	-	75	280S	80	125	4	18	32	100	4	18
65/315	-	90	280M	80	125	4	18	32	100	4	18
65/315	-	110	315S	80	125	4	18	32	100	4	18
80/315	7.5	-	132M	100	125	4	18	32	100	4	18
80/315	11	-	160M	100	125	4	18	32	100	4	18
80/315	15	-	160M/L	100	125	4	18	32	100	4	18
80/315	18.5	-	180M	100	125	4	18	32	100	4	18
80/315	-	55	250M	100	125	4	18	32	100	4	18
80/315	-	75	280S	100	125	4	18	32	100	4	18
80/315	-	90	280M	100	125	4	18	32	100	4	18
80/315	-	110	315S	100	125	4	18	32	100	4	18
80/315	-	132	315M	100	125	4	18	32	100	4	18
80/315	-	160	315L	100	125	4	18	32	100	4	18
100/315	15	-	160M/L	125	125	4	18	32	100	4	18
100/315	18.5	-	180M	125	125	4	18	32	100	4	18
100/315	22	-	180M/L	125	125	4	18	32	100	4	18
100/315	30	-	200L	125	125	4	18	32	100	4	18
100/315	-	90	280M	125	125	4	18	32	100	4	18
100/315	-	110	315S	125	125	4	18	32	100	4	18
100/315	-	132	315M	125	125	4	18	32	100	4	18
100/315	-	160	315L	125	125	4	18	32	100	4	18
100/315	-	200	315L	125	125	4	18	32	100	4	18
125/315	18.5	-	180M	150	125	4	18	32	100	4	18
125/315	22	-	180M/L	150	125	4	18	32	100	4	18
125/315	30	-	200L	150	125	4	18	32	100	4	18
125/315	37	-	225SX	150	125	4	18	32	100	4	18
150/315	22	-	180M/L	200	125	4	18	32	100	4	18
150/315	30	-	200L	200	125	4	18	32	100	4	18
150/315	37	-	225SX	200	125	4	18	32	100	4	18
150/315	45	-	225MX	200	125	4	18	32	100	4	18
80/400	11	-	160M	100	125	4	18	32	100	4	18
80/400	15	-	160M/L	100	125	4	18	32	100	4	18
80/400	18.5	-	180M	100	125	4	18	32	100	4	18
80/400	22	-	180M/L	100	125	4	18	32	100	4	18
80/400	30	-	200L	100	125	4	18	32	100	4	18
100/400	22	-	180M/L	125	125	4	18	32	100	4	18
100/400	30	-	200L	125	125	4	18	32	100	4	18
100/400	37	-	225SX	125	125	4	18	32	100	4	18
125/400	30	-	200L	150	125	4	18	32	100	4	18
125/400	37	-	225SX	150	125	4	18	32	100	4	18
125/400	45	-	225MX	150	125	4	18	32	100	4	18
125/400	55	-	250MX	150	125	4	18	32	100	4	18
125/400	75	-	280SX	150	125	4	18	32	100	4	18
150/400	37	-	225SX	200	125	4	18	32	100	4	18
150/400	45	-	225MX	200	125	4	18	32	100	4	18
150/400	55	-	250MX	200	125	4	18	32	100	4	18
150/400	75	-	280SX	200	125	4	18	32	100	4	18
150/400	90	-	280MX	200	125	4	18	32	100	4	18

PUMPSET BASE PLATE DIMENSIONS

Pump General Dimension				Pump Set General Dimension				Foundation Dimention				Spacer Coupling
a	b1	b2	f	H	h1	h2	L1	L2	L3	Z No's	S	X
125	390	360	470	320	245	280	1025	825	-	4	14	100
125	390	360	470	320	245	280	1160	960	480	6	14	100
125	430	400	470	320	245	280	1240	1040	520	6	14	100
125	430	400	470	320	245	280	1240	1040	520	6	14	100
125	510	474	470	345	245	280	1370	1170	585	6	18	100
125	610	574	470	370	250	280	1440	1240	620	6	18	100
125	650	614	470	400	250	280	1570	1370	685	6	18	100
125	420	390	470	320	245	280	1070	870	435	6	14	140
125	420	390	470	320	245	280	1070	870	435	6	14	140
125	420	390	470	320	245	280	1165	965	482.5	6	14	140
125	450	420	470	320	245	280	1285	1085	542.5	6	14	140
125	450	420	470	320	245	280	1285	1085	542.5	6	14	140
125	510	480	470	345	245	280	1435	1235	617.5	6	18	140
125	575	545	470	375	245	280	1500	1300	650	6	18	140
125	620	590	470	405	245	280	1600	1400	700	6	18	140
125	620	590	470	405	245	280	1600	1400	700	6	18	140
125	700	670	470	440	245	280	1700	1500	750	6	18	140
125	420	390	470	345	270	315	1070	870	435	6	14	140
125	420	390	470	345	270	315	1165	965	482.5	6	14	140
125	420	390	470	345	270	315	1210	1010	505	6	14	140
125	420	390	470	345	270	315	1210	1010	505	6	14	140
125	575	545	470	370	270	315	1500	1300	650	6	18	140
125	620	590	470	405	270	315	1600	1400	700	6	18	140
125	620	590	470	405	270	315	1600	1400	700	6	18	140
125	700	670	470	440	270	315	1700	1500	750	6	18	140
125	700	670	470	440	270	315	1700	1500	750	6	18	140
125	700	670	470	440	270	315	1800	1600	800	6	18	140
140	420	390	470	345	270	315	1210	1010	505	6	14	140
140	420	390	470	345	270	315	1210	1010	505	6	14	140
140	420	390	470	345	270	315	1235	1035	517.5	6	14	140
140	450	420	470	345	270	315	1285	1085	542.5	6	14	140
140	620	590	470	440	270	315	1600	1400	700	6	18	140
140	700	670	470	440	270	315	1700	1500	750	6	18	140
140	700	670	470	440	270	315	1700	1500	750	6	18	140
140	700	670	470	440	270	315	1800	1600	800	6	18	140
140	700	670	470	440	270	315	1800	1600	800	6	18	140
140	550	520	530	405	305	355	1280	1070	540	6	18	140
140	550	520	530	405	305	355	1310	1110	555	6	18	140
140	550	520	530	405	305	355	1360	1160	580	6	18	140
140	550	520	530	405	305	355	1400	1200	600	6	18	140
160	600	570	530	405	305	400	1310	1110	555	6	18	140
160	600	570	530	405	305	400	1360	1160	580	6	18	140
160	600	570	530	405	305	400	1410	1210	605	6	18	140
160	600	570	530	405	305	400	1410	1210	605	6	18	140
125	460	430	530	375	300	355	1265	1065	532.5	6	18	140
125	460	430	530	375	300	355	1320	1120	560	6	18	140
125	460	430	530	375	300	355	1310	1010	555	6	18	140
125	460	430	530	375	300	355	1360	1160	580	6	18	140
125	480	444	530	400	300	355	1385	1185	592.5	6	18	140
140	550	520	530	405	305	355	1310	1110	555	6	18	140
140	550	520	530	405	305	355	1360	1160	580	6	18	140
140	550	520	530	405	305	355	1400	1200	600	6	18	140
140	520	490	530	410	335	400	1355	1155	577.5	6	14	140
140	575	545	530	435	335	400	1580	1380	690	6	18	140
140	575	545	530	435	335	400	1580	1380	690	6	18	140
140	575	545	530	435	335	400	1580	1380	690	6	18	140
140	620	590	530	435	335	400	1700	1500	750	6	18	140
160	600	570	530	440	340	450	1410	1210	605	6	18	140
160	600	570	530	440	340	450	1410	1210	605	6	18	140
160	600	570	530	440	340	450	1470	1270	635	6	18	140
160	600	570	530	440	340	450	1660	1460	730	6	18	140
160	600	570	530	440	340	450	1660	1460	730	6	18	140

NOTES

Handwriting practice lines for notes. The page contains 24 horizontal dotted lines for writing. The first four lines are grouped under the 'NOTES' header.

W I N N I N G W A Y S

When you have a good thing going it is quite in the fitting of things that recognitions come our way. Several prestigious awards, which decorate our shelf, say it all. These rewards not only acknowledge our position as a leader in the water pump industry but also serve as reminders about what the customer expects from a winner. And we, as ever, have our ears perfectly tuned to customer expectations.



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