SPX
WHERE IDEAS MEET INDUSTRY

Pump Curve Book - 50hz

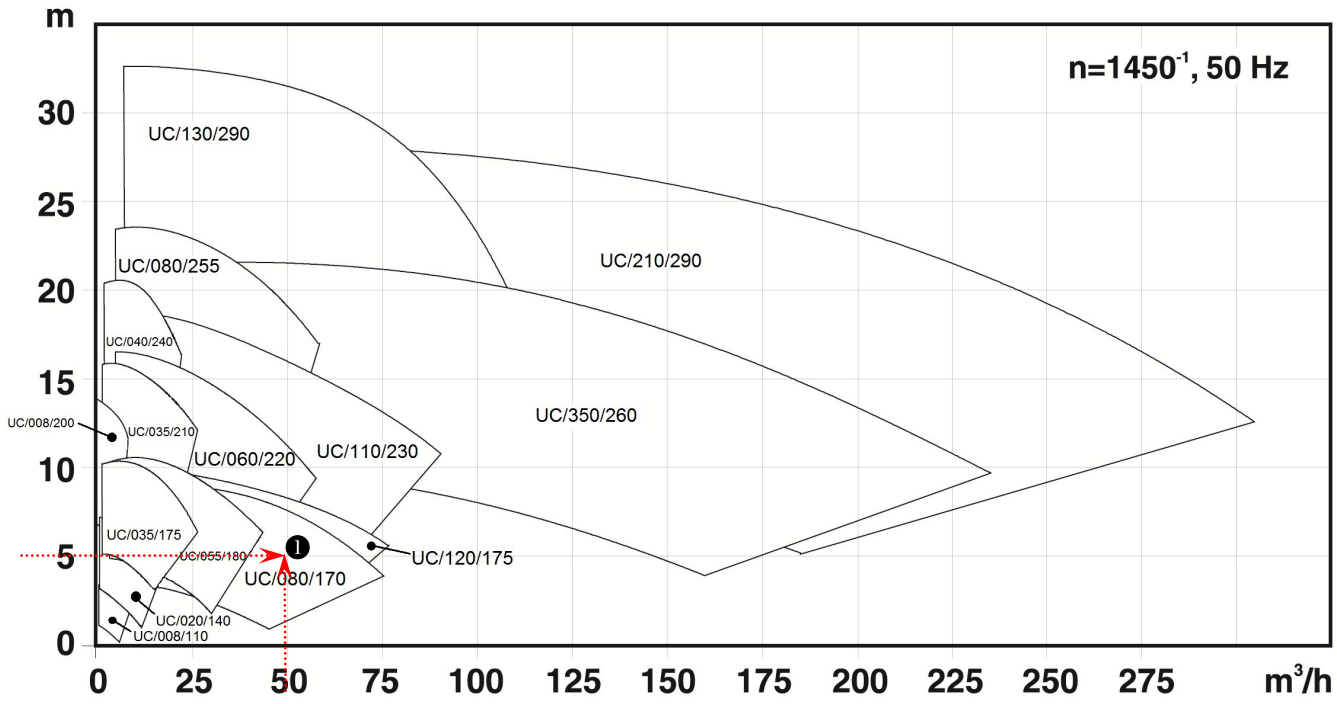
UC

UNIVERSAL CENTRIFUGAL PUMP

Waukesha Cherry-Burrell®

UC Performance Curves Usage

Performance data refer to water at 20°C
Permissible tolerances ±5%



Example:

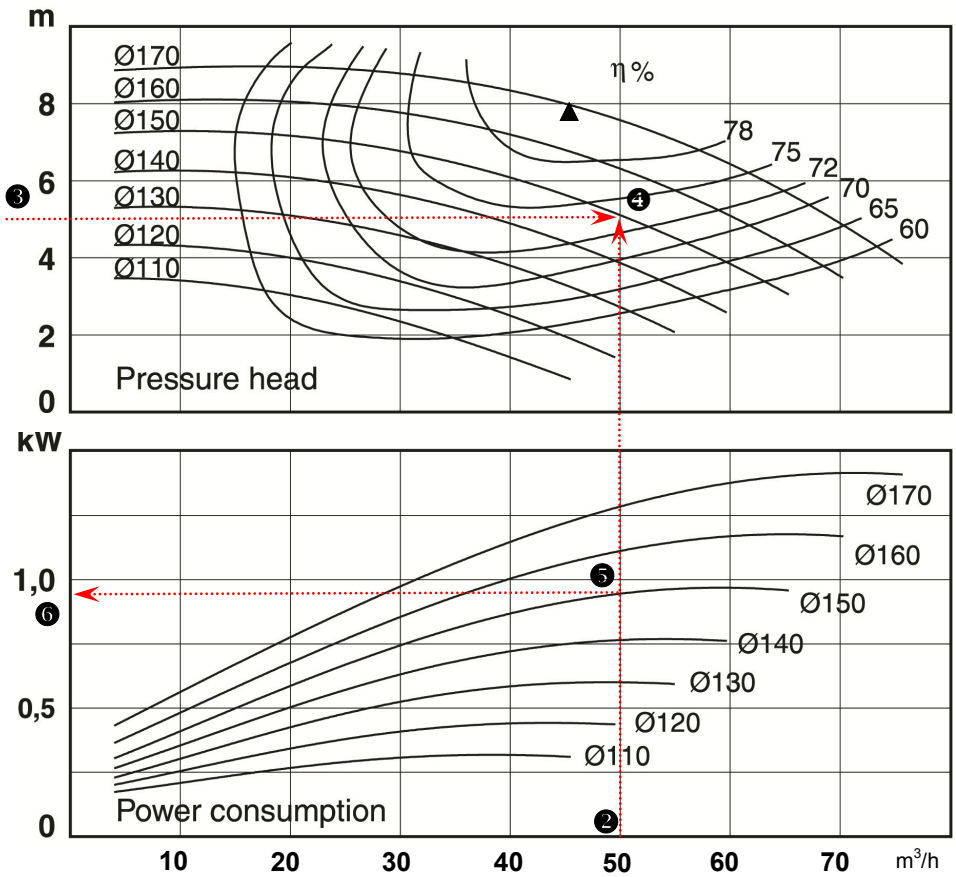
The required flow is 50 m^3/hr and a differential pressure of 5 m water gauge. This corresponds to **UC/080/170.** ❶

Choose the impeller diameter that is the closest to the point ❹ where the flow curve ❷ cuts the differential pressure curve ❸, in this case 150 mm.

Where the point of the flow curve ❷, and 150 mm impeller line ❺ intersect will provide the power required to operate at the desired operating conditions, select the next higher standard motor, in this case 1.1 kW, ❻.

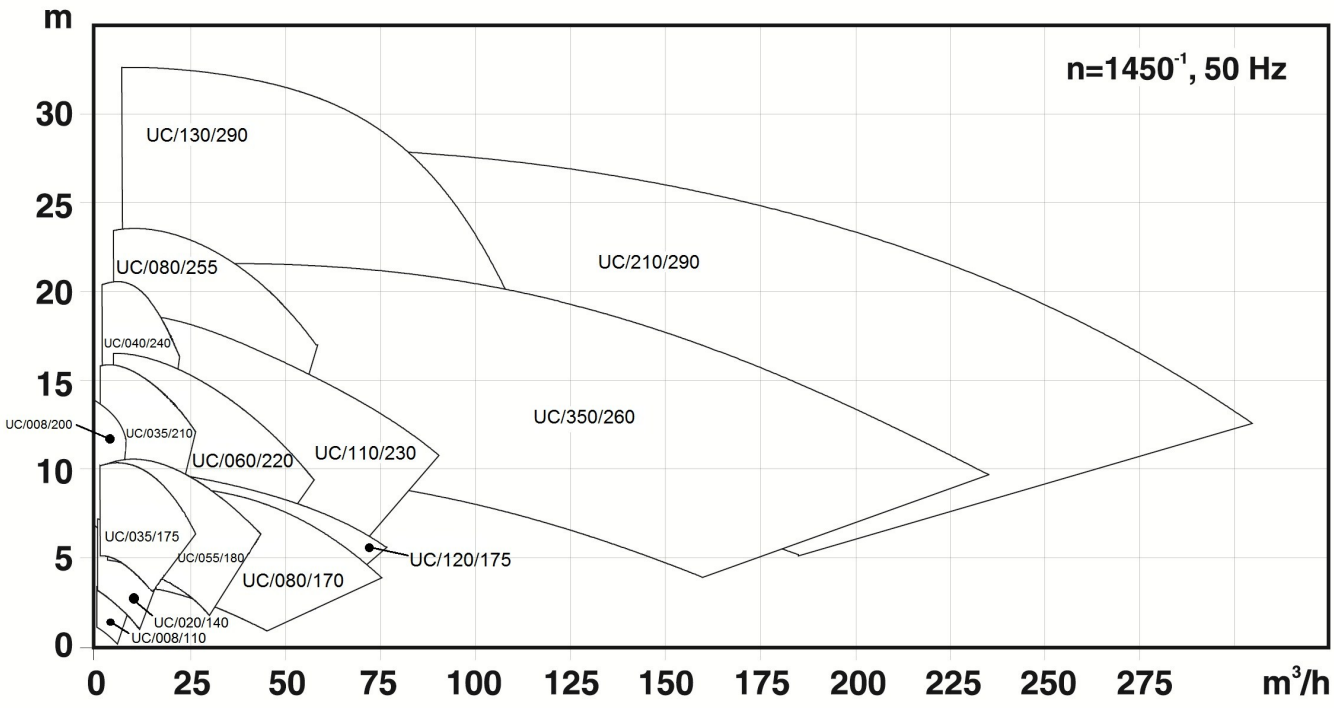
Motor Sizes (kW):

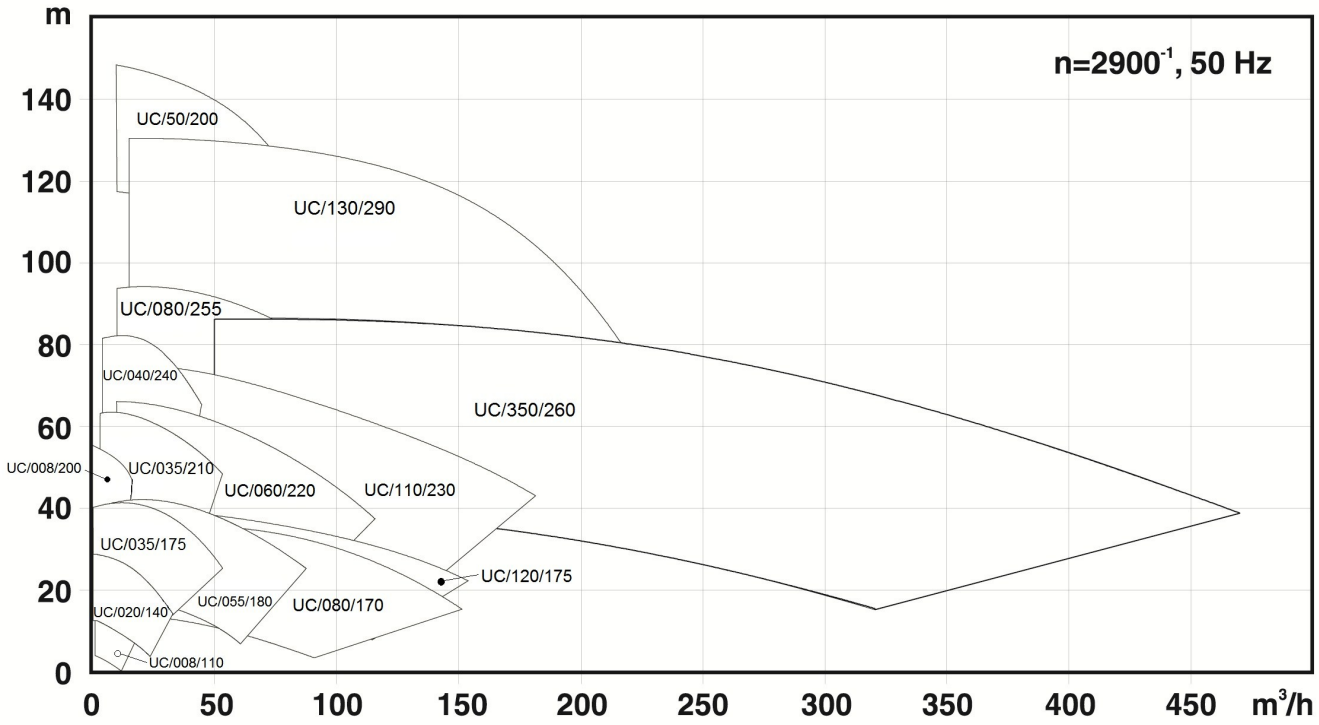
1.1, 1.5, 2.2, 3.0, 4.0, 5.5, 7.5, 11.0, 15.0, 18.5, 22.0, 30.0, 37.0, 45.0, 55.0, 75.0



Composite Curves 50 Hz

Performance data refer to water at 20°C
Permissible tolerances ±5%



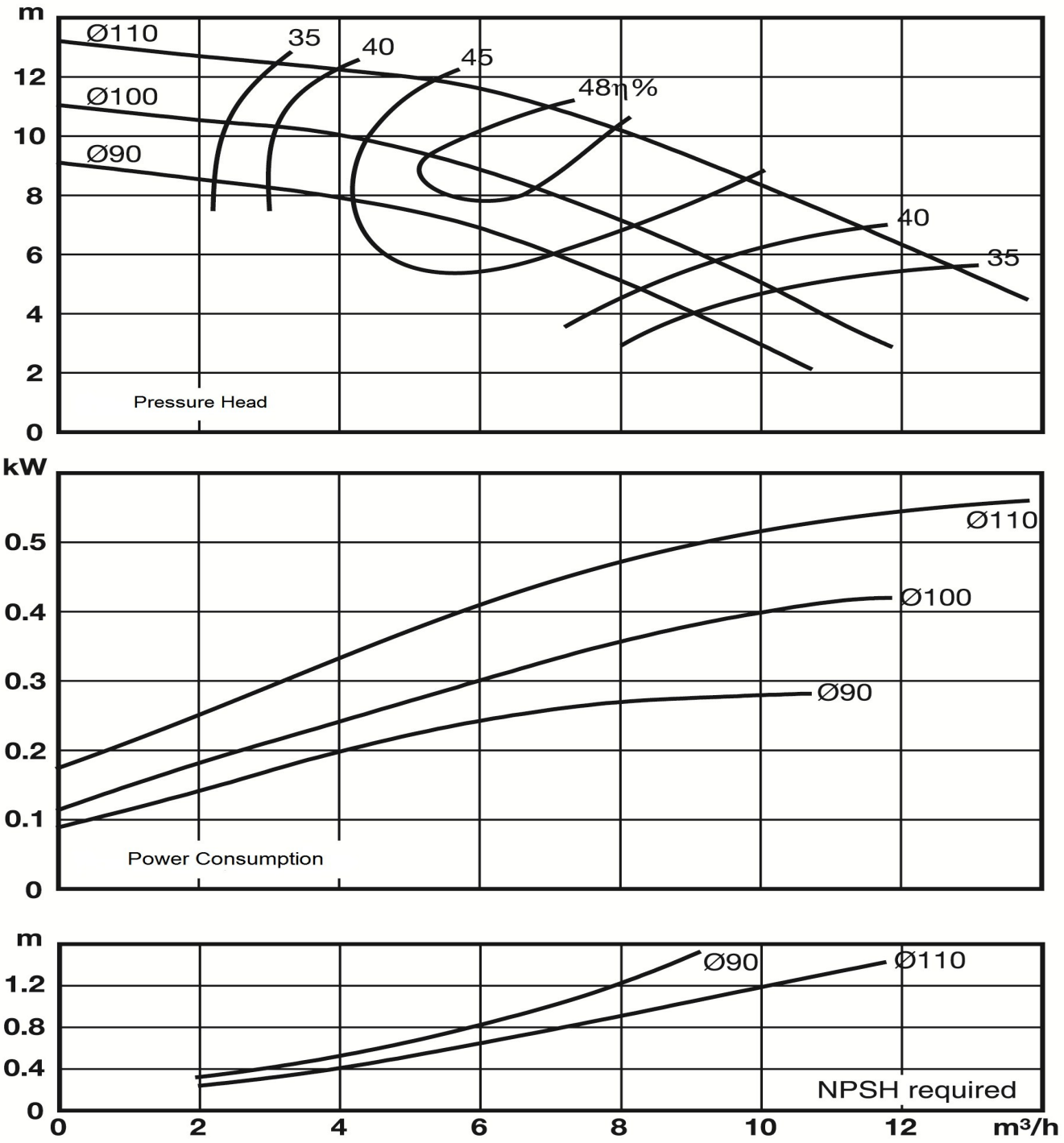


UC/008/110

Notes:

Speed: n=2900^{-1} @ 50hz
Impeller: 90 mm minimum / 110 mm maximum
Pump Inlet: 38 mm
Pump Outlet: 25 mm

Performance data refer to water at 20°C P
Permissible tolerances ±5%

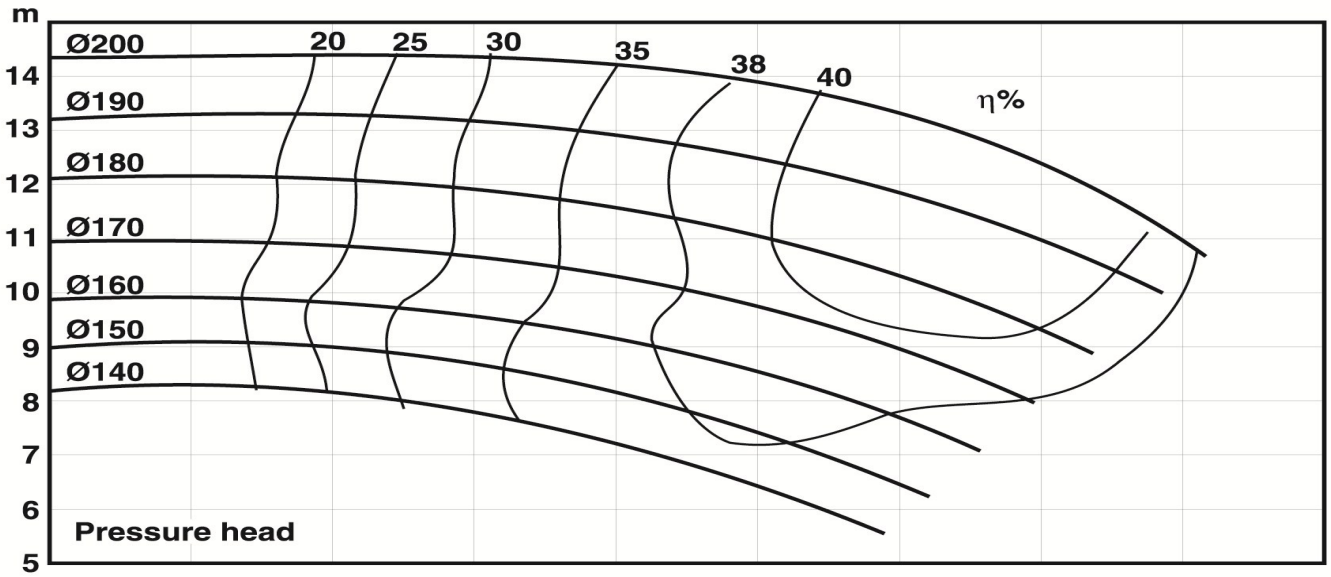


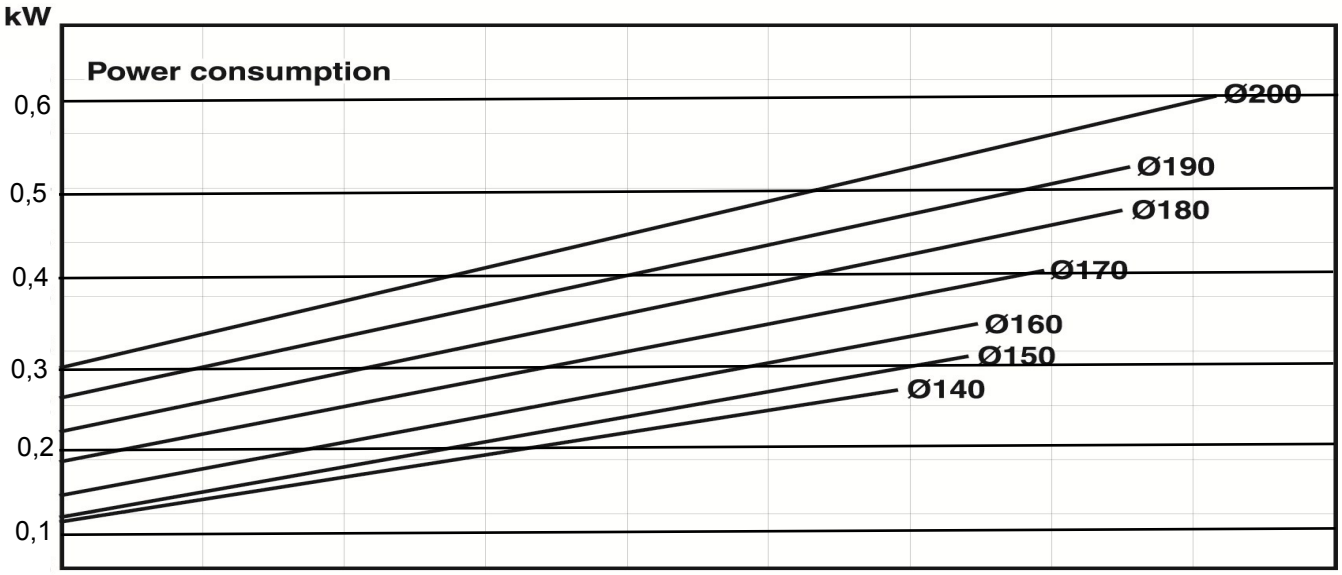
UC/008/200

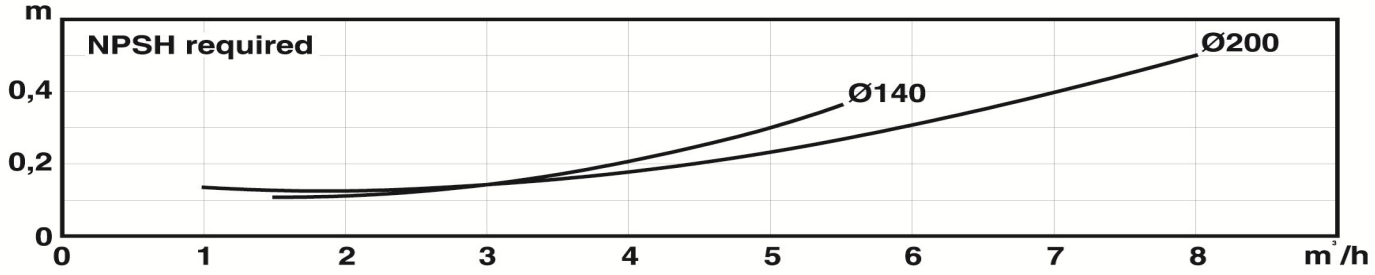
Notes:

Speed: n=1450^{-1} @ 50hz
Impeller: 140 mm minimum / 200 mm maximum
Pump Inlet: 38 mm
Pump Outlet: 25 mm

Performance data refer to water at 20°C P
Permissible tolerances ±5%





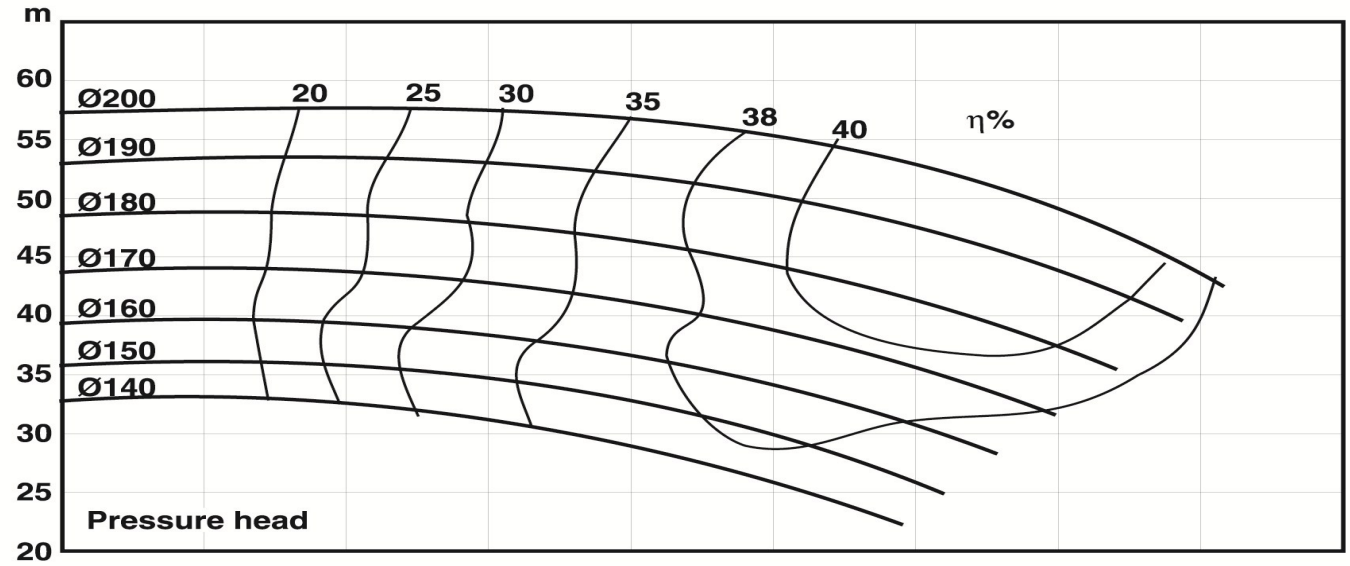


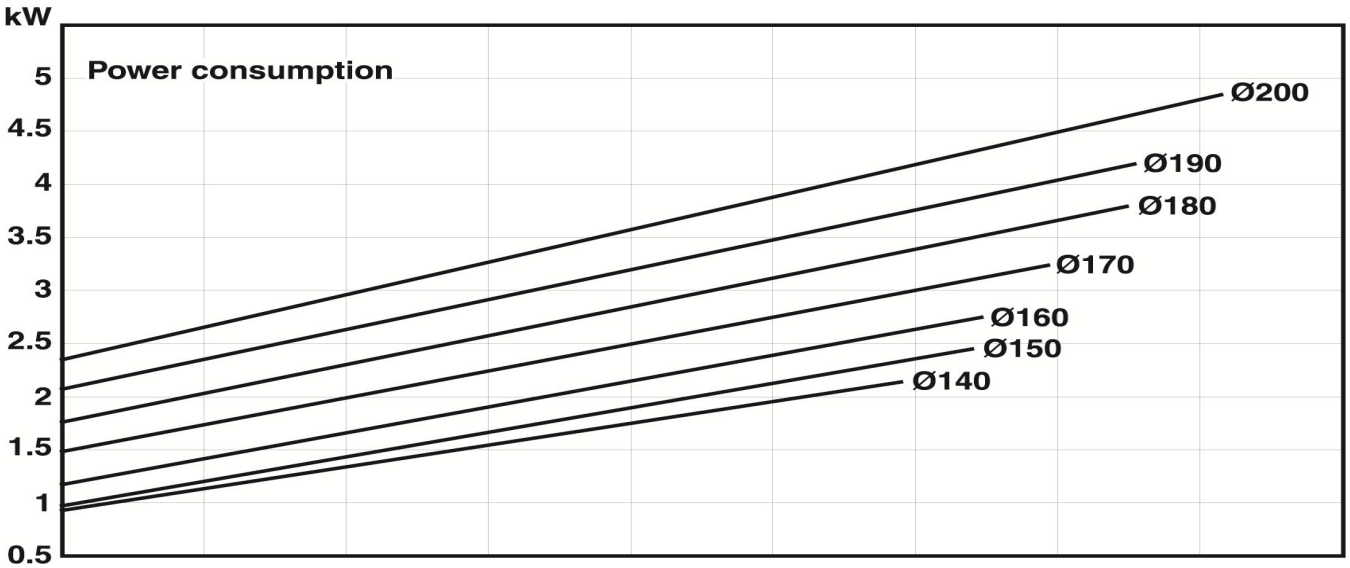
UC/008/200

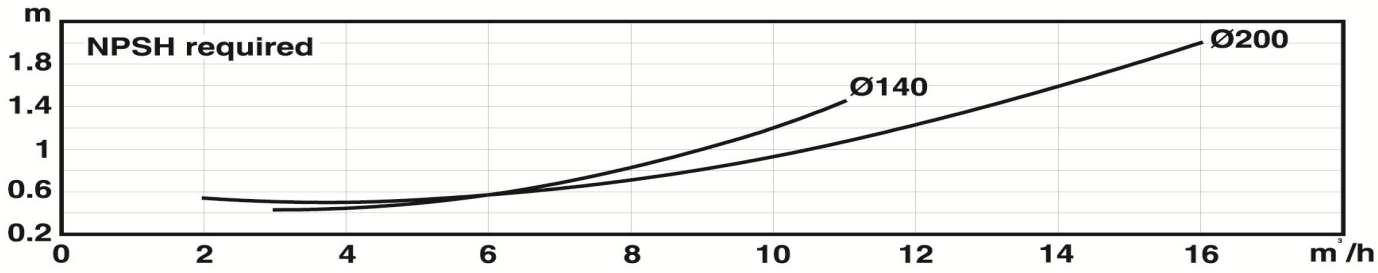
Notes:

Speed: n=2900^{-1} @ 50hz
Impeller: 140 mm minimum / 200 mm maximum
Pump Inlet: 38 mm
Pump Outlet: 25 mm

Performance data refer to water at 20°C P
Permissible tolerances ±5%





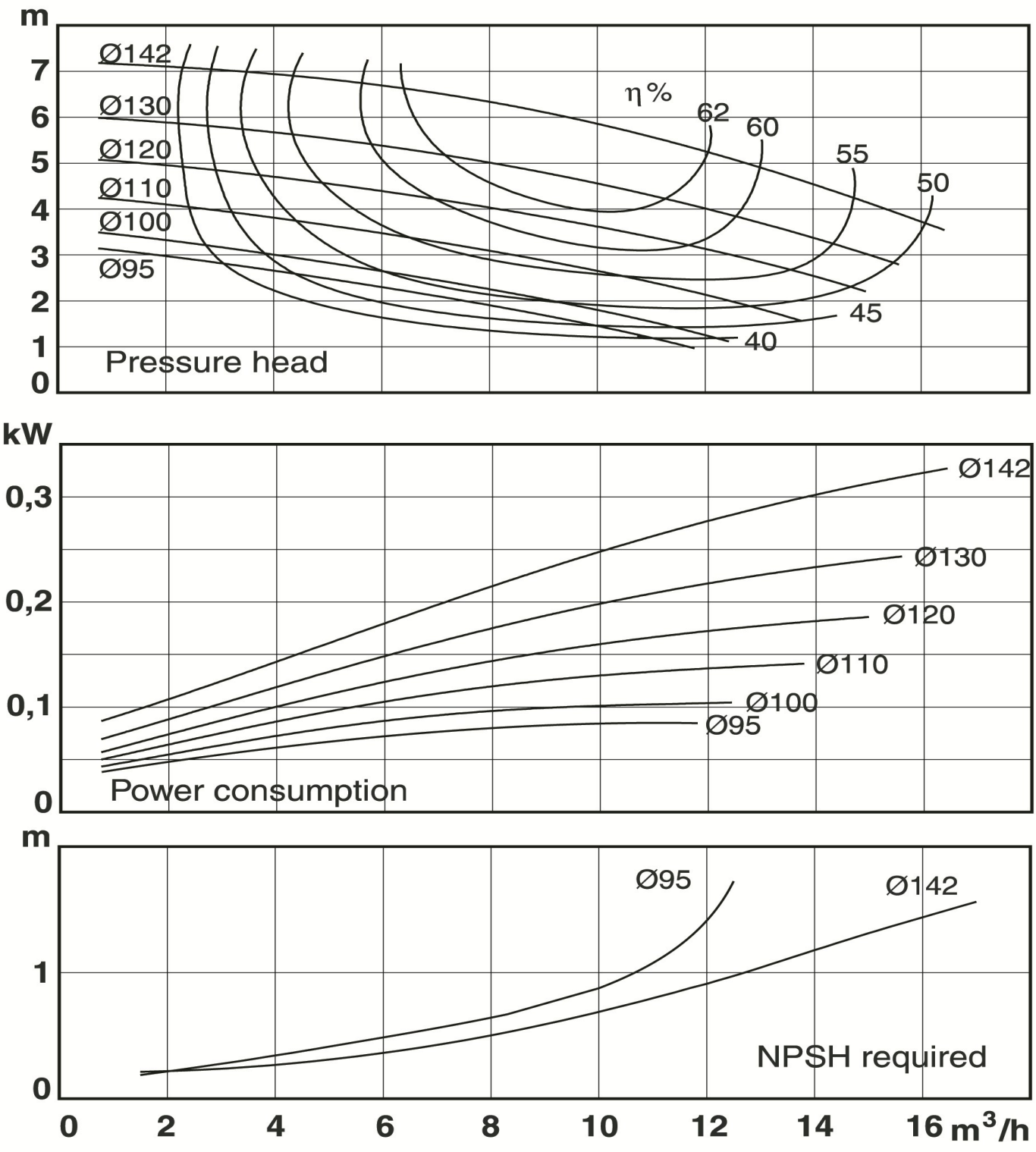


UC/020/140

Notes:

Speed: n=1450^{-1} @ 50hz
Impeller: 95 mm minimum / 142 mm maximum
Pump Inlet: 51 mm
Pump Outlet: 51 mm

Performance data refer to water at 20°C P
Permissible tolerances ±5%

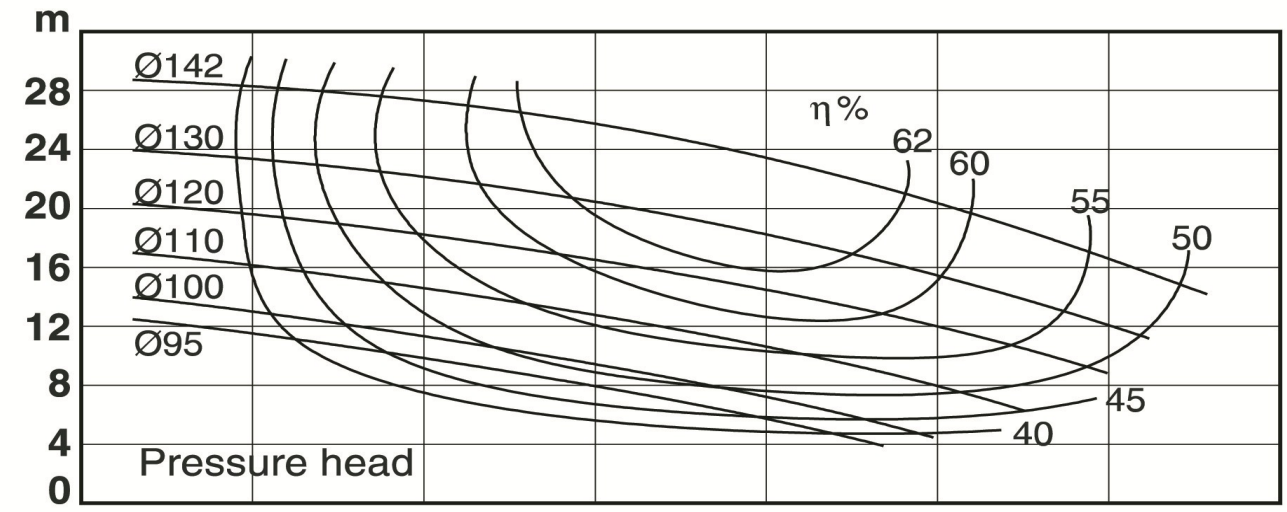


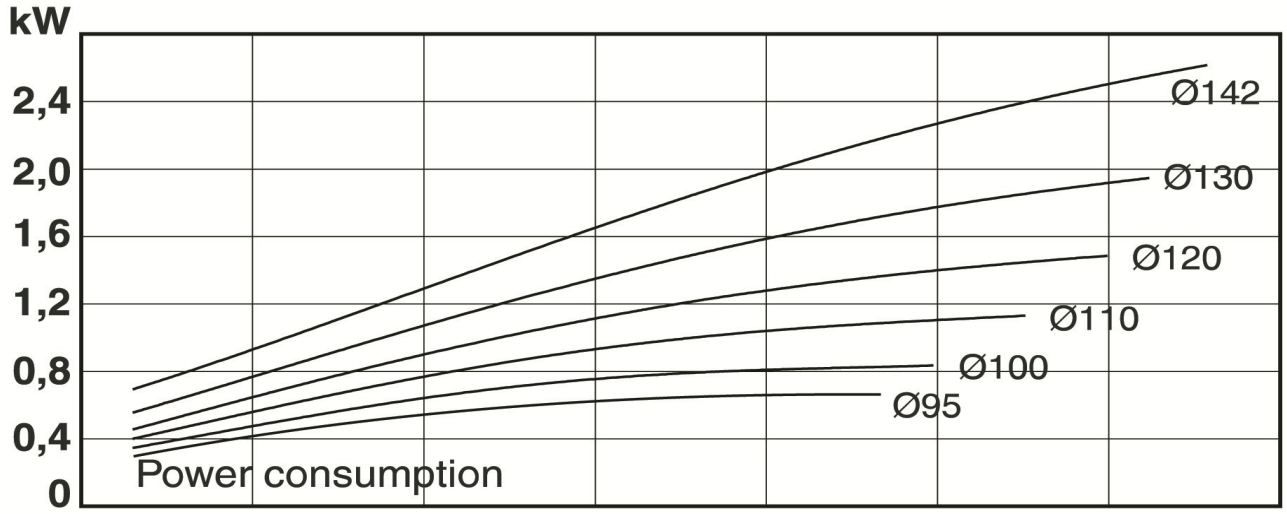
UC/020/140

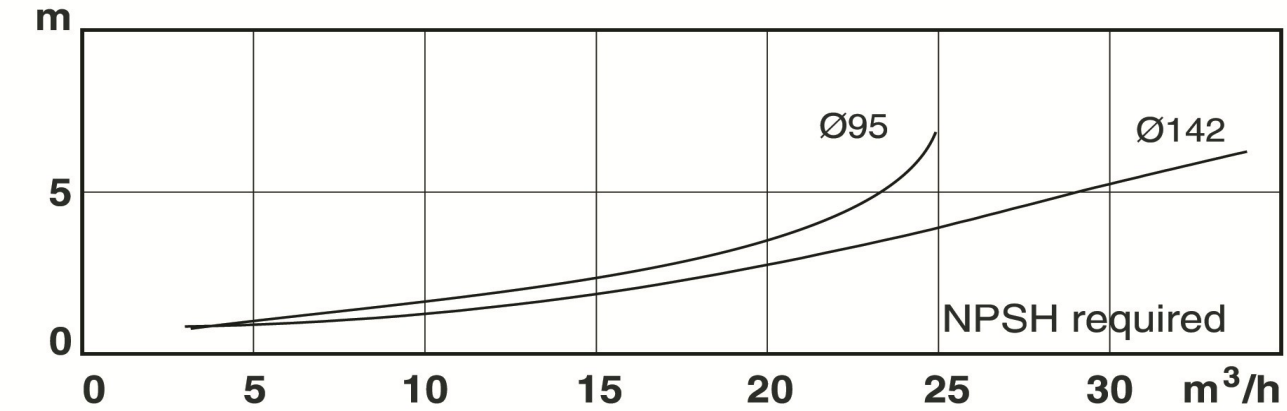
Notes:

Speed: n=2900^{-1} @ 50hz
Impeller: 95 mm minimum / 142 mm maximum
Pump Inlet: 51 mm
Pump Outlet: 51 mm

Performance data refer to water at 20°C P
Permissible tolerances ±5%





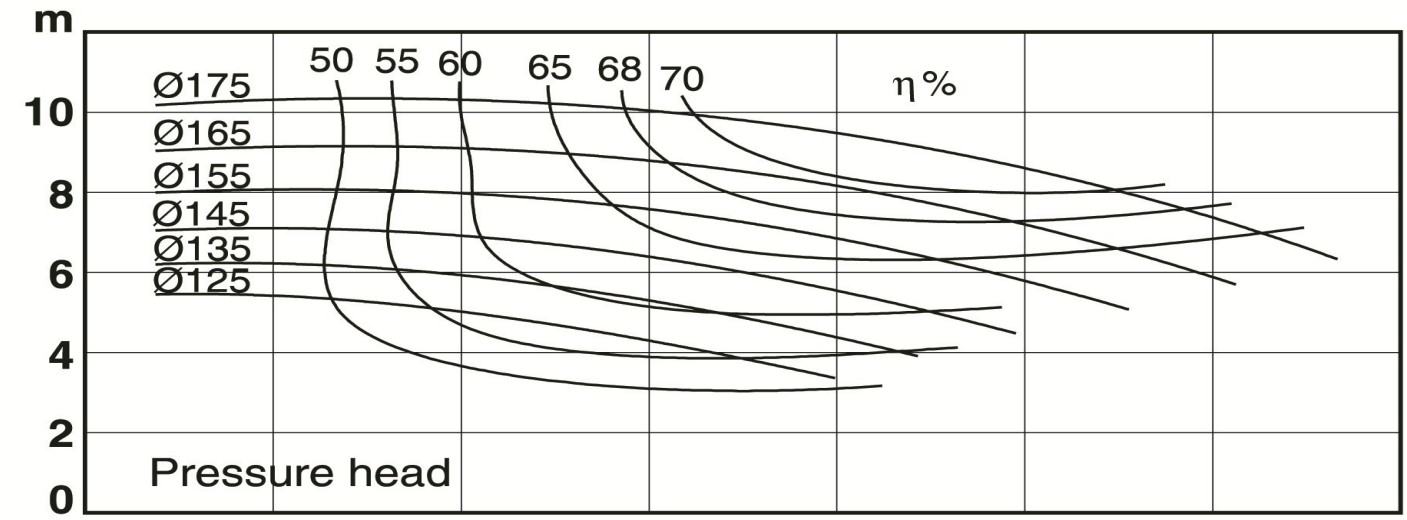


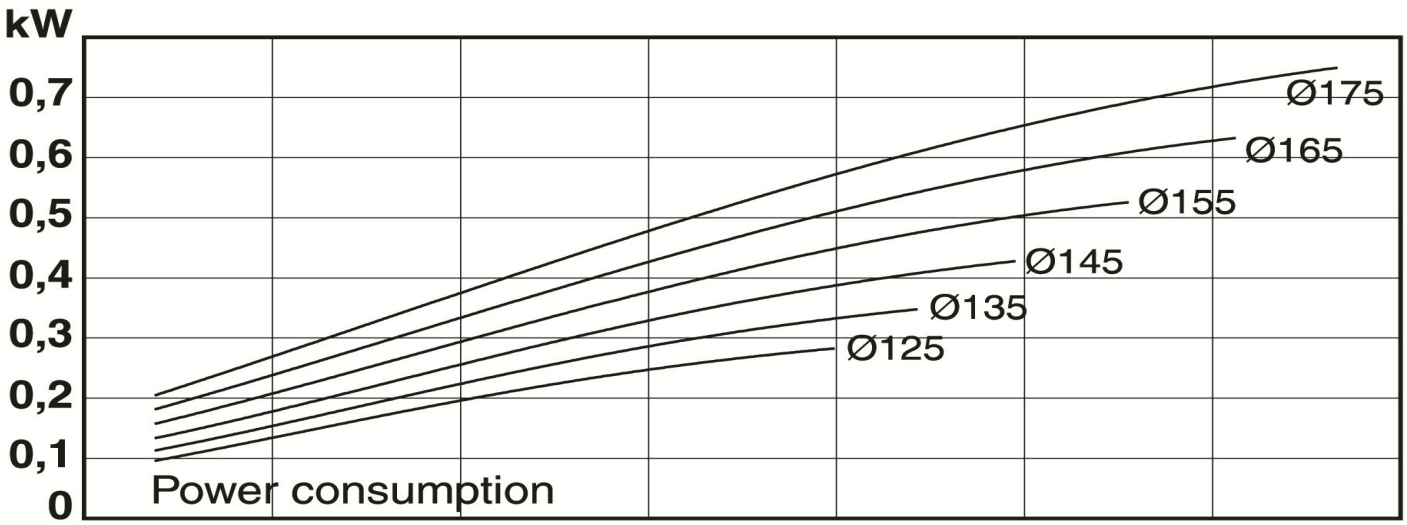
UC/035/175

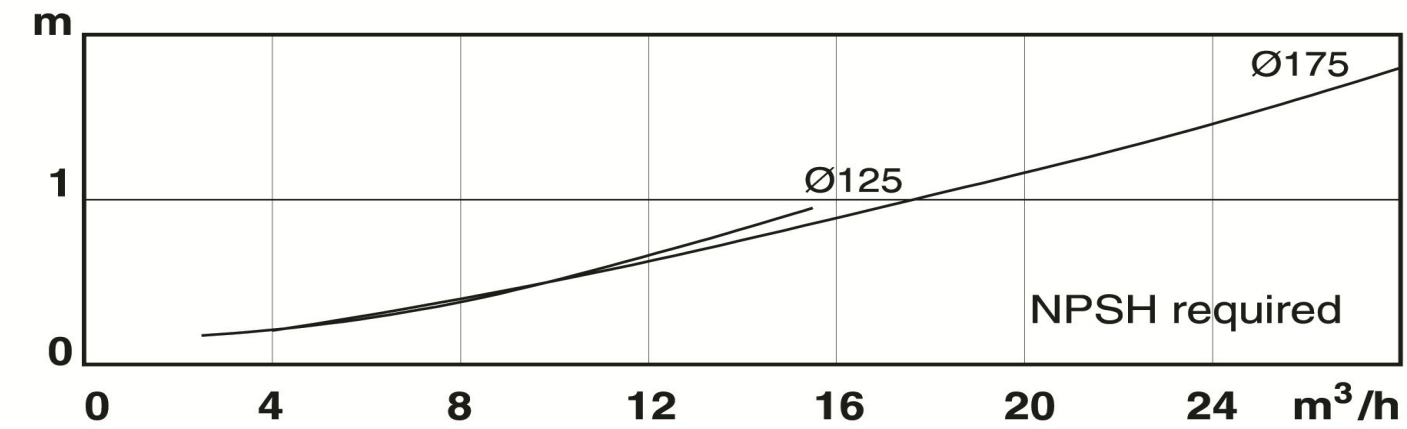
Notes:

Speed: n=1450^{-1} @ 50hz
Impeller: 125 mm minimum / 175 mm maximum
Pump Inlet: 63,5 mm
Pump Outlet: 51 mm

Performance data refer to water at 20°C P
Permissible tolerances ±5%





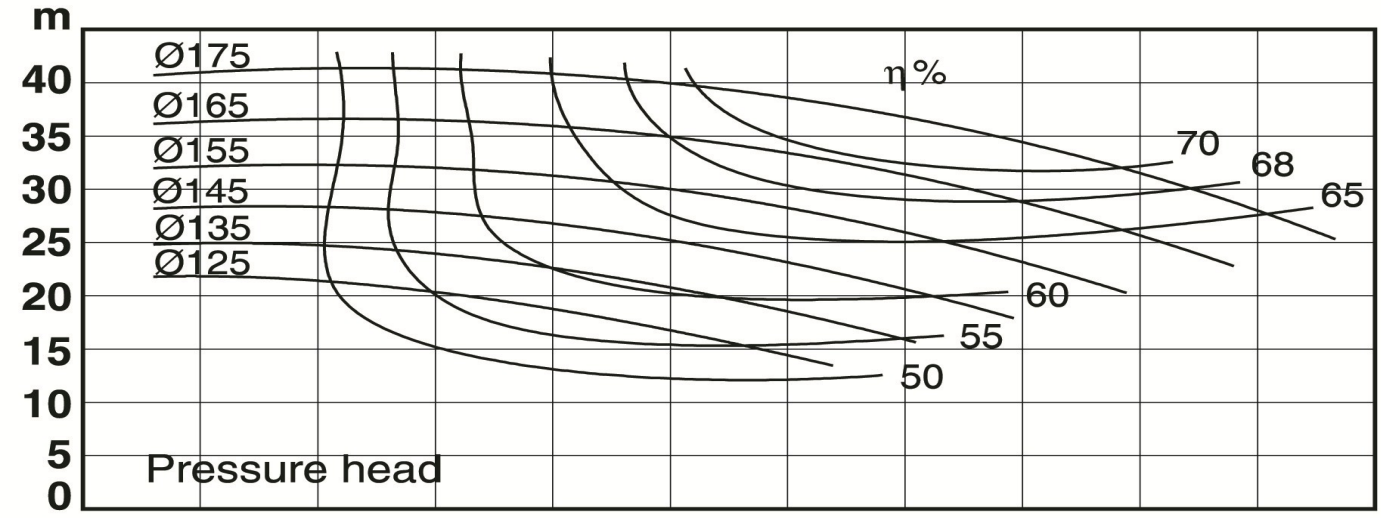


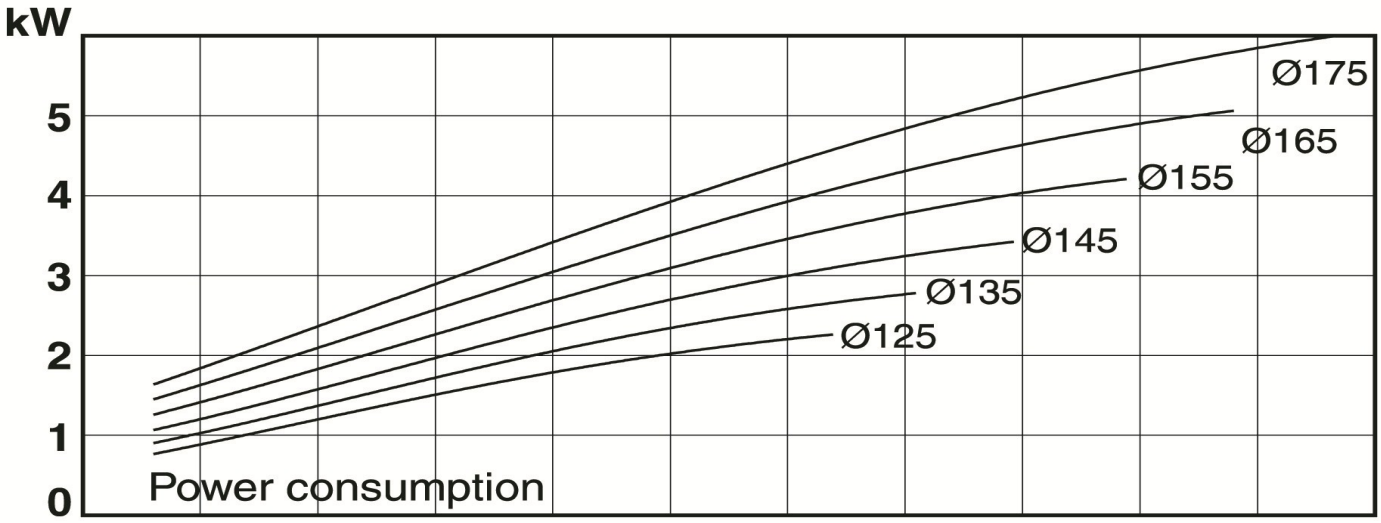
UC/035/175

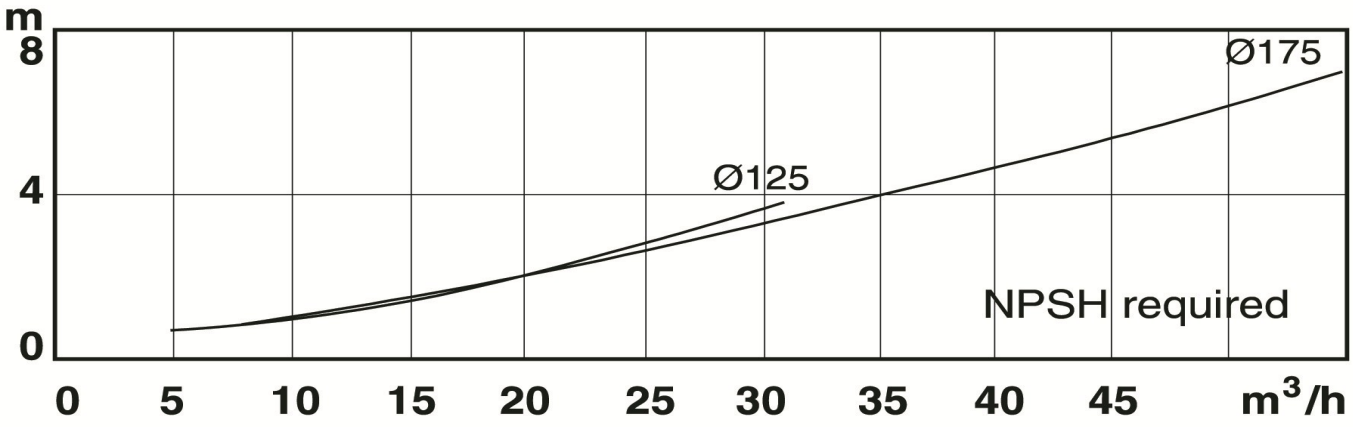
Notes:

Speed: n=2900^{-1} @ 50hz
Impeller: 125 mm minimum / 175 mm maximum
Pump Inlet: 63,5 mm
Pump Outlet: 51 mm

Performance data refer to water at 20°C P
Permissible tolerances ±5%





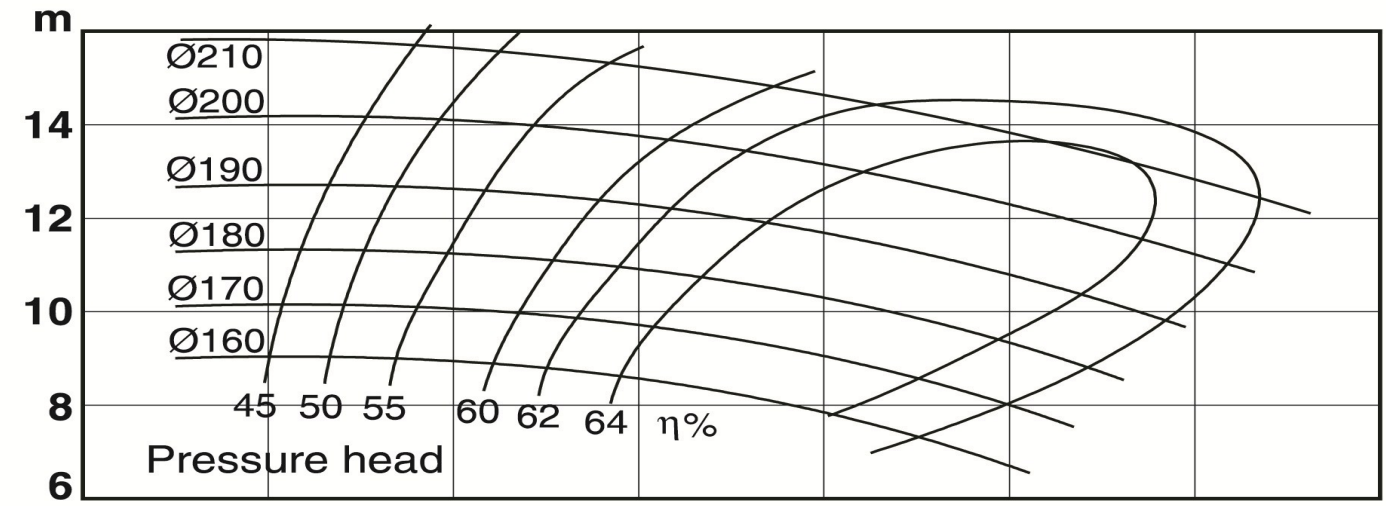


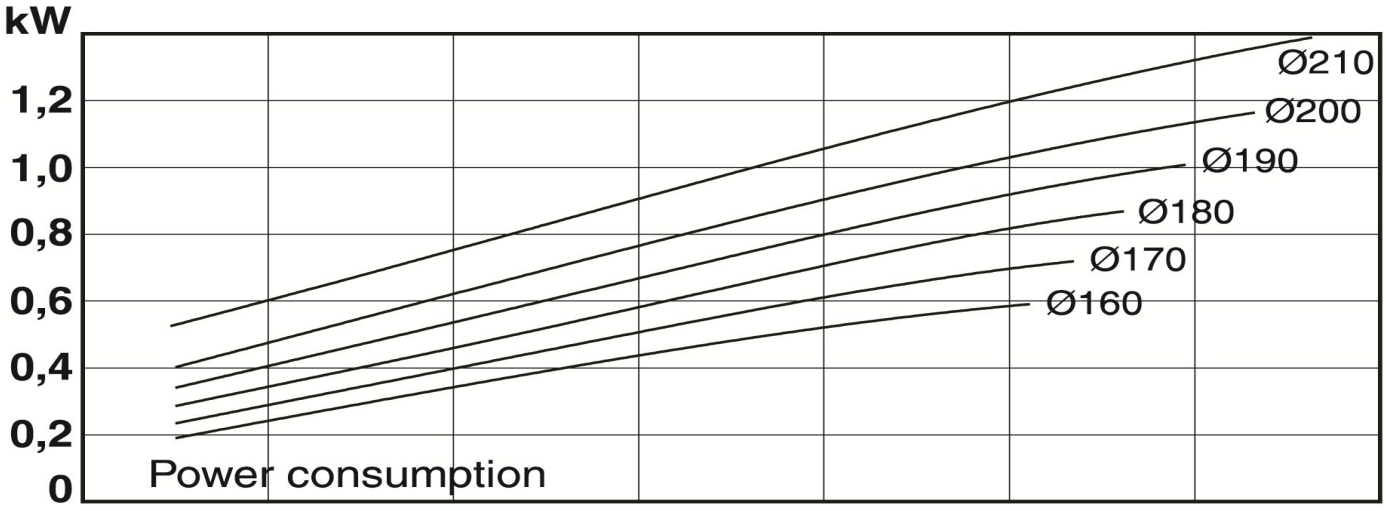
UC/035/210

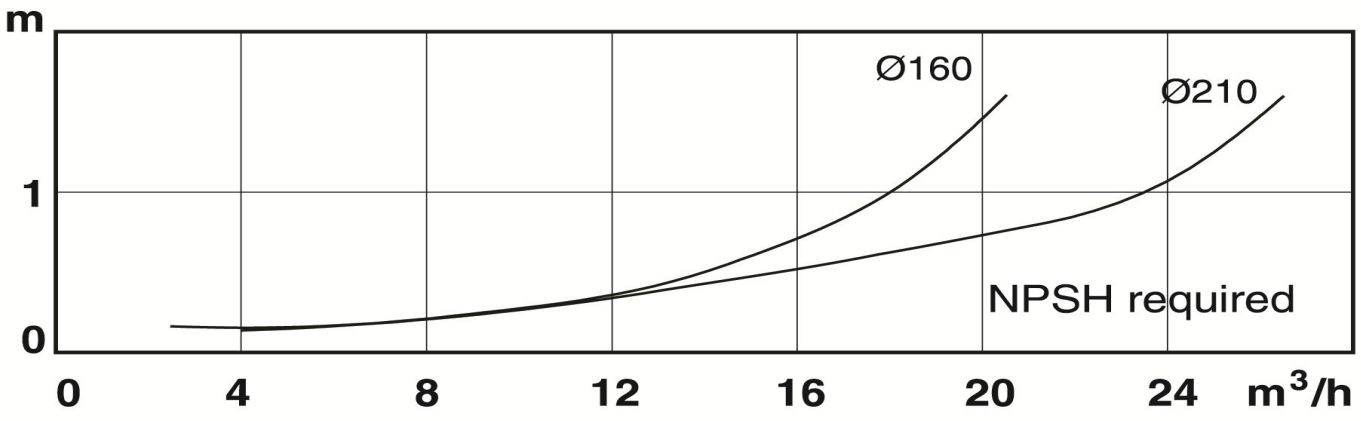
Notes:

Speed: n=1450^{-1} @ 50hz
Impeller: 160 mm minimum / 210 mm maximum
Pump Inlet: 63,5 mm
Pump Outlet: 38 mm

Performance data refer to water at 20°C P
Permissible tolerances ±5%





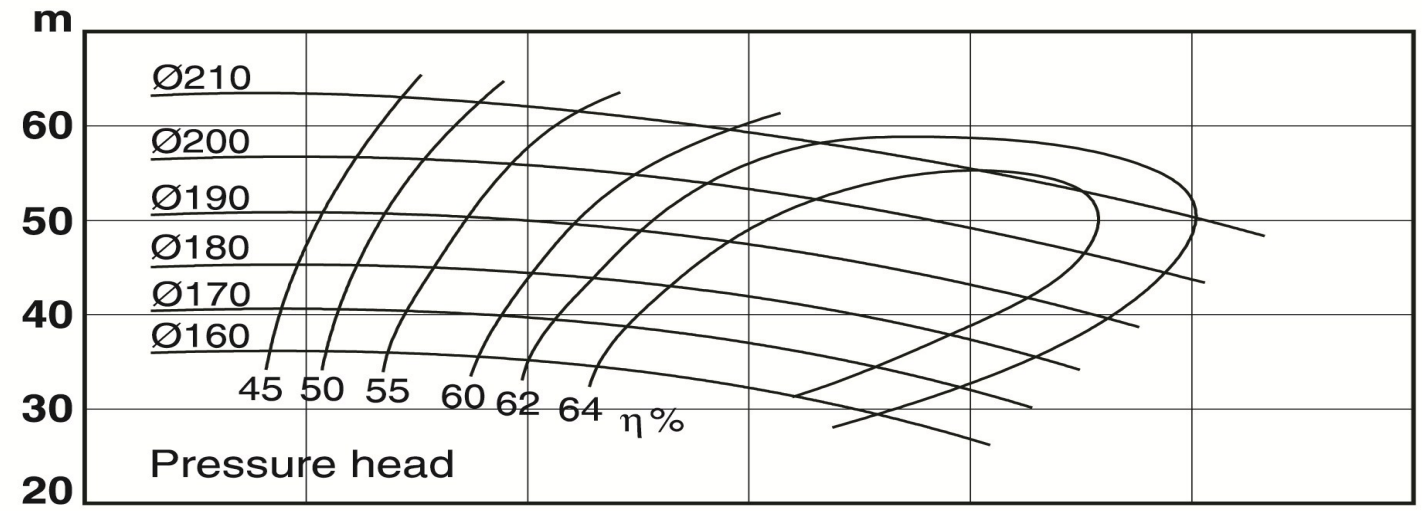


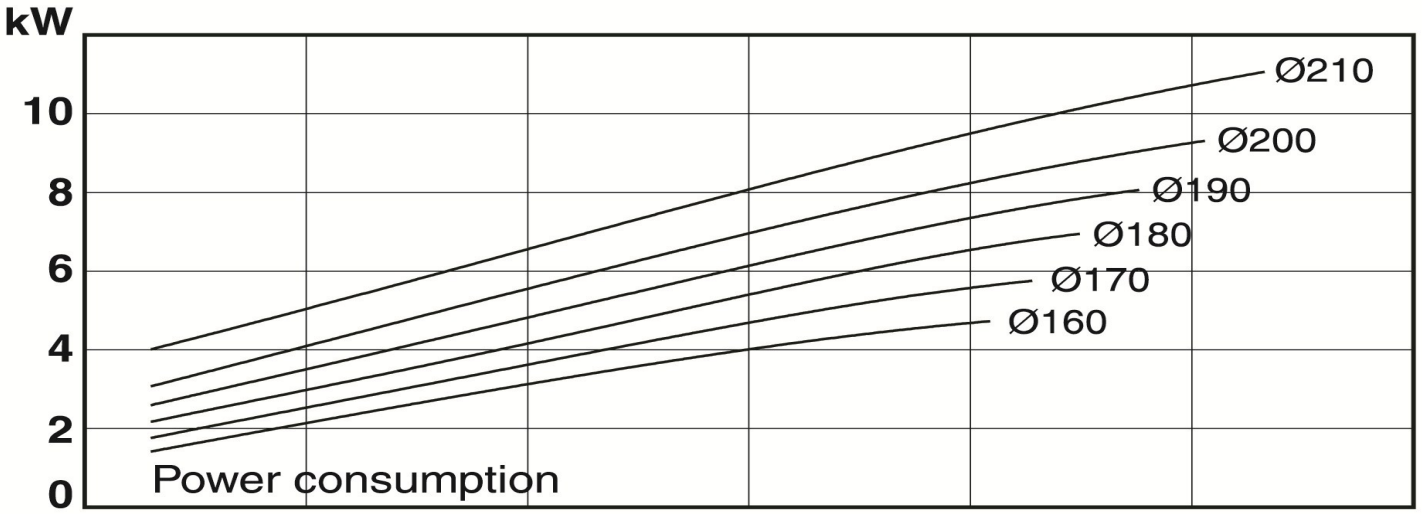
UC/035/210

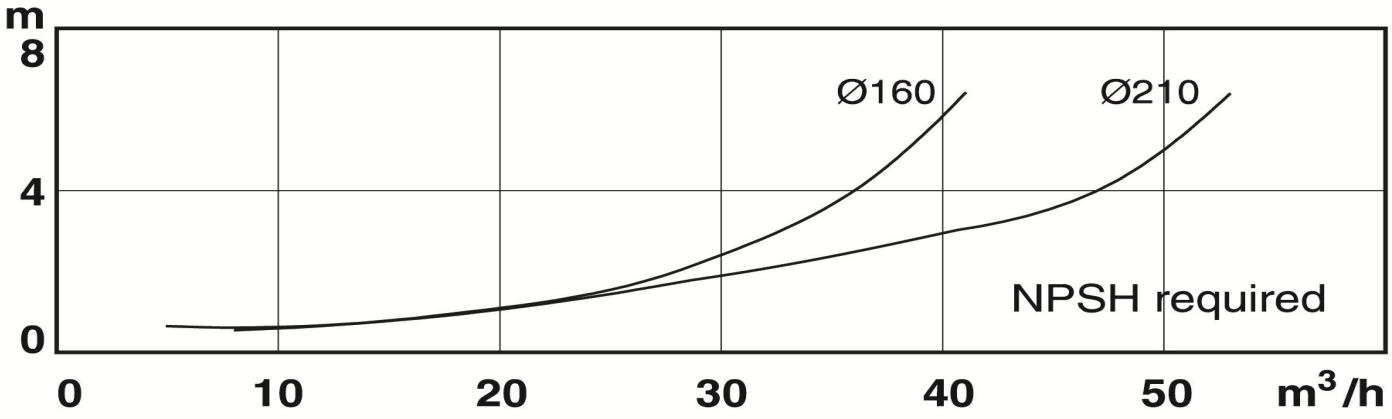
Notes:

Speed: n=2900^{-1} @ 50hz
Impeller: 160 mm minimum / 210 mm maximum
Pump Inlet: 63,5 mm
Pump Outlet: 38 mm

Performance data refer to water at 20°C P
Permissible tolerances ±5%





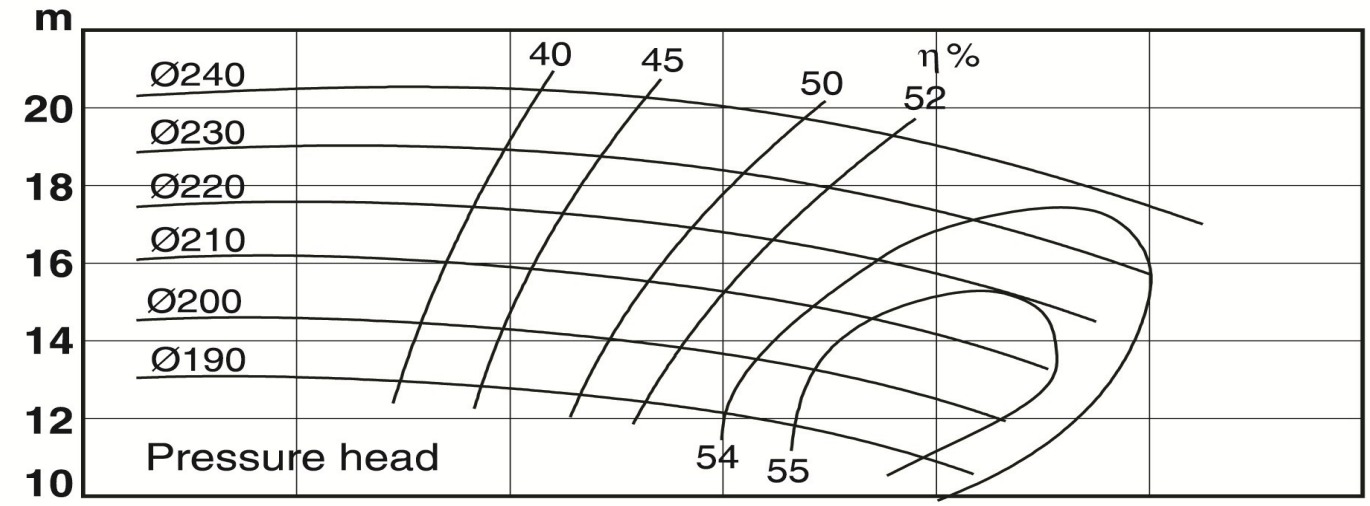


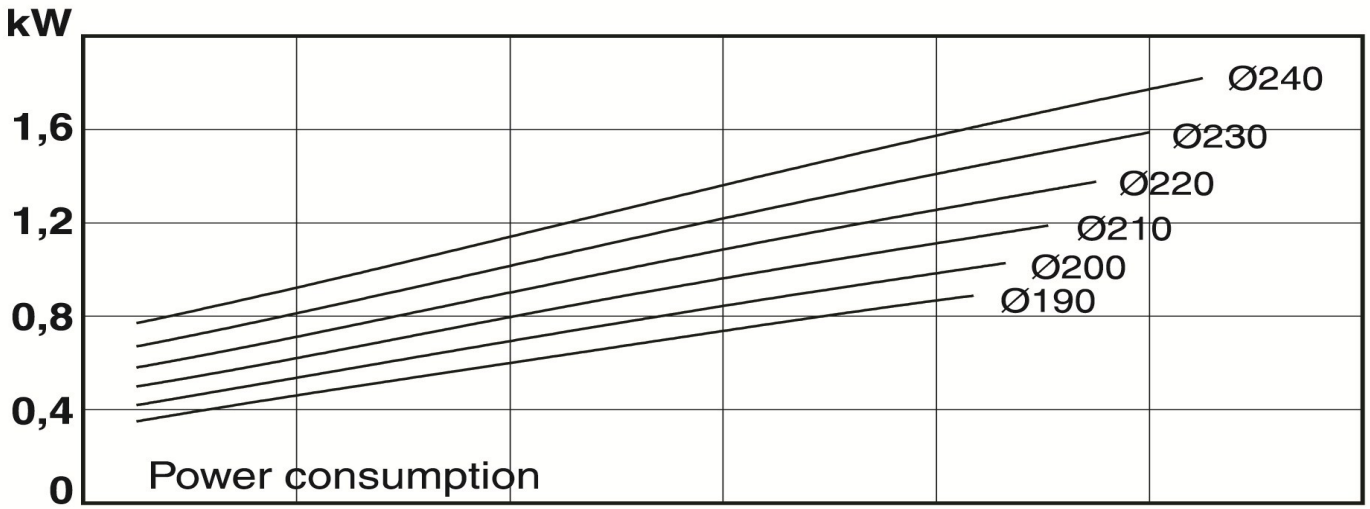
UC/040/240

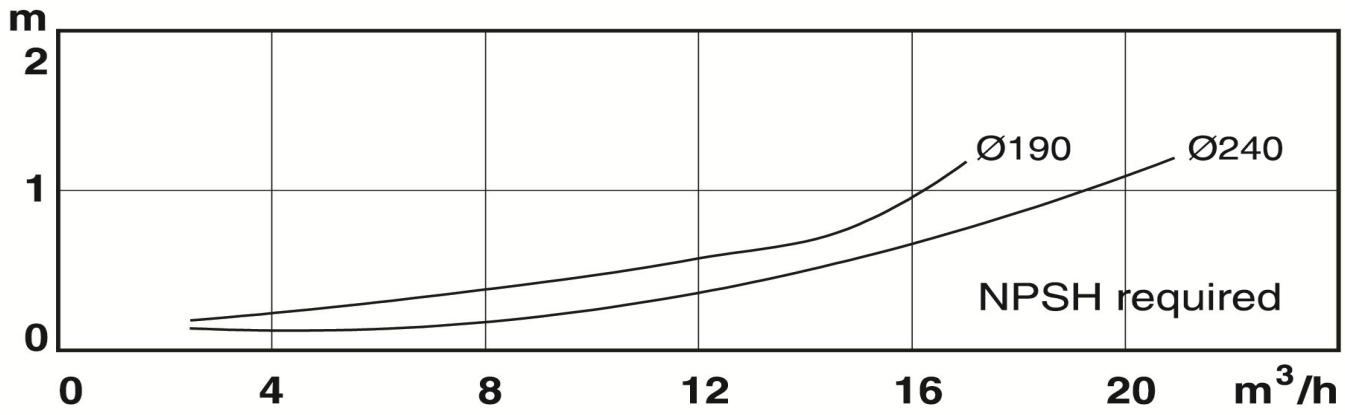
Notes:

Speed: n=1450^{-1} @ 50hz
Impeller: 190 mm minimum / 240 mm maximum
Pump Inlet: 63,5 mm
Pump Outlet: 38 mm

Performance data refer to water at 20°C P
Permissible tolerances ±5%





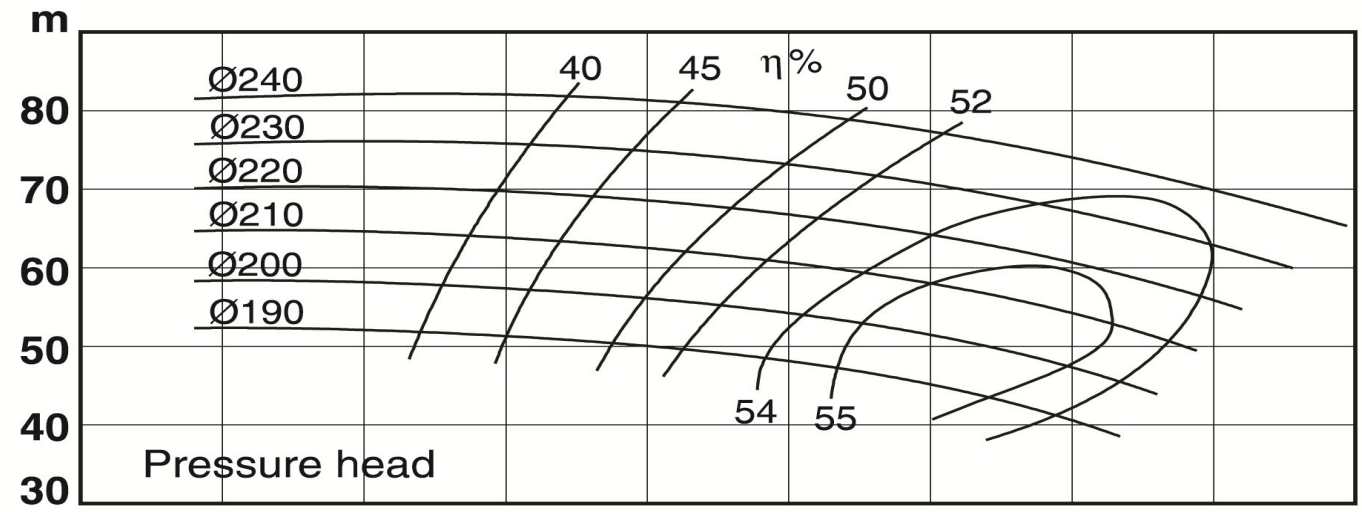


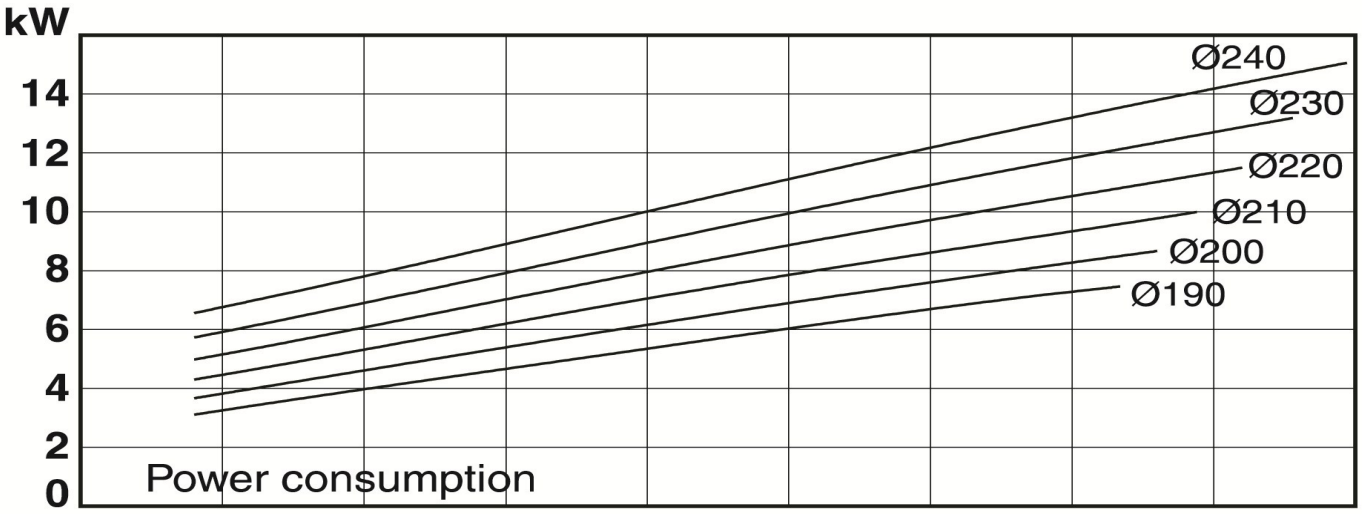
UC/040/240

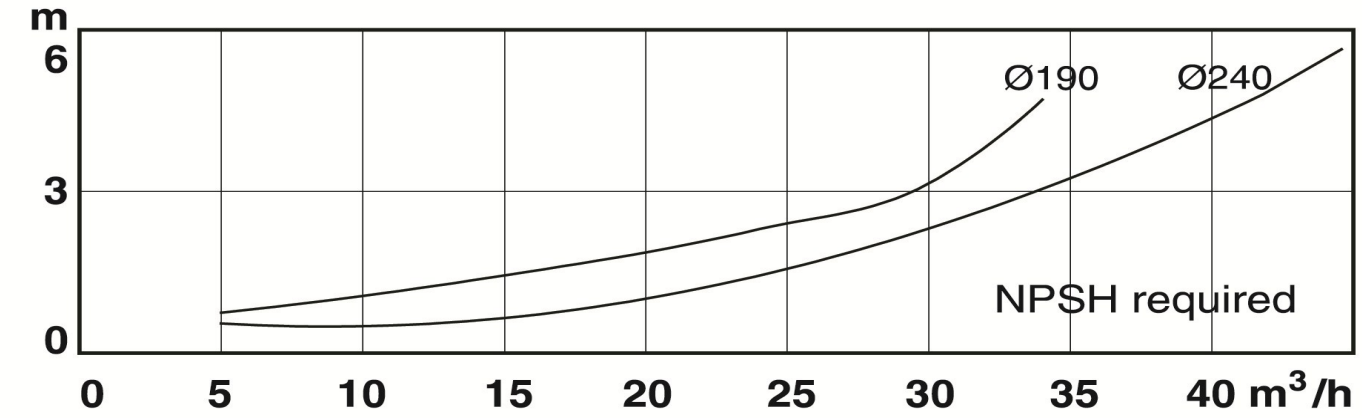
Notes:

Speed: n=2900^{-1} @ 50hz
Impeller: 190 mm minimum / 240 mm maximum
Pump Inlet: 63,5 mm
Pump Outlet: 38 mm

Performance data refer to water at 20°C P
Permissible tolerances ±5%





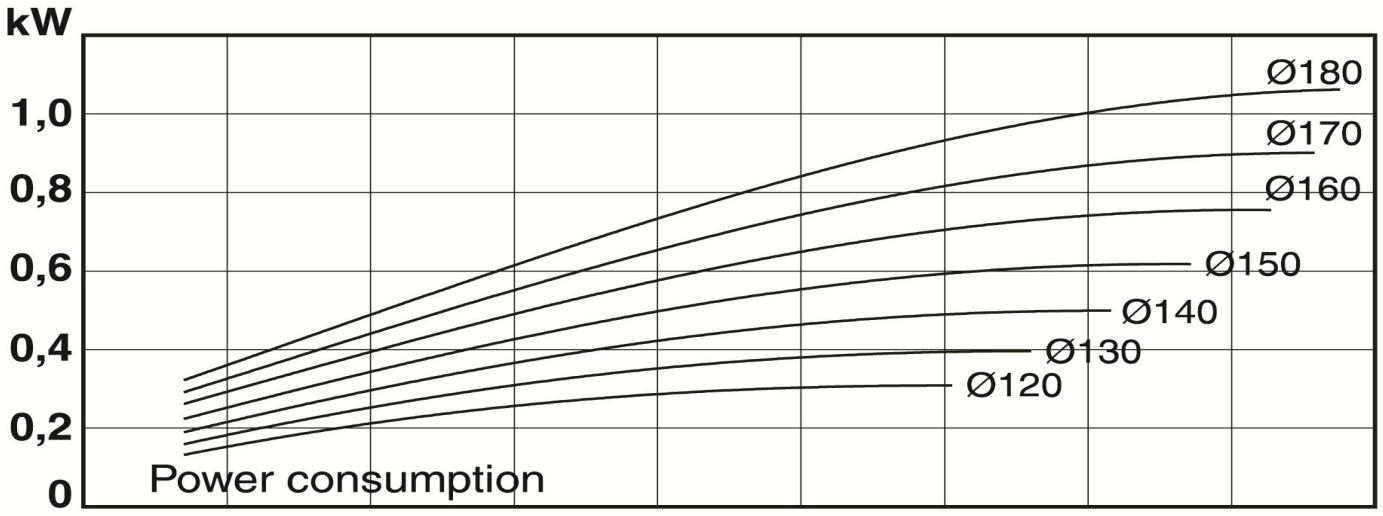


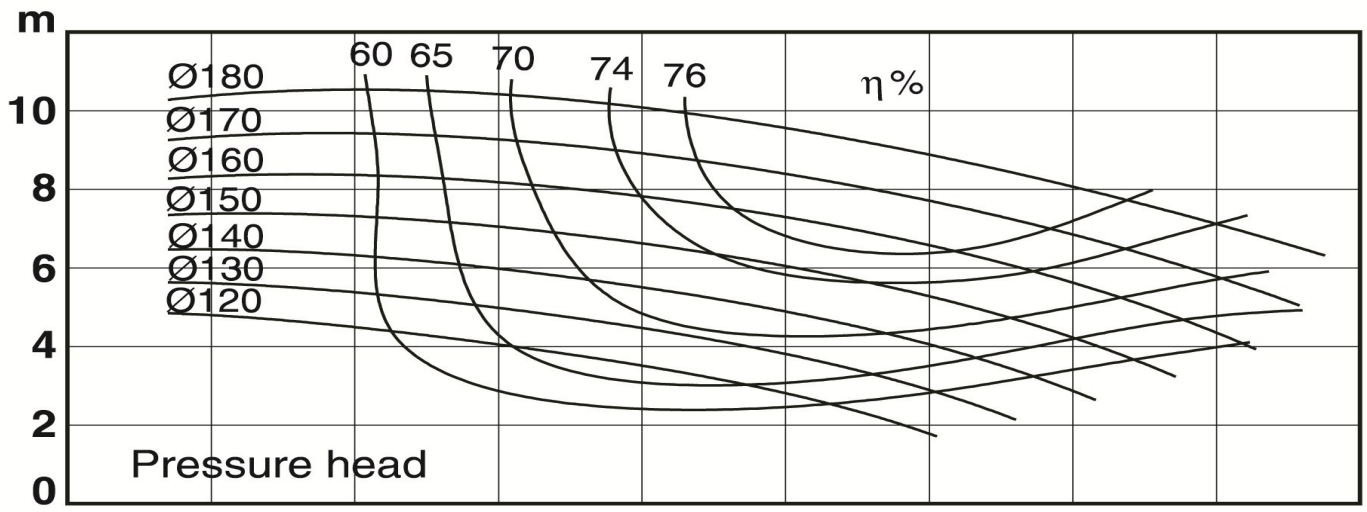
UC/055/180

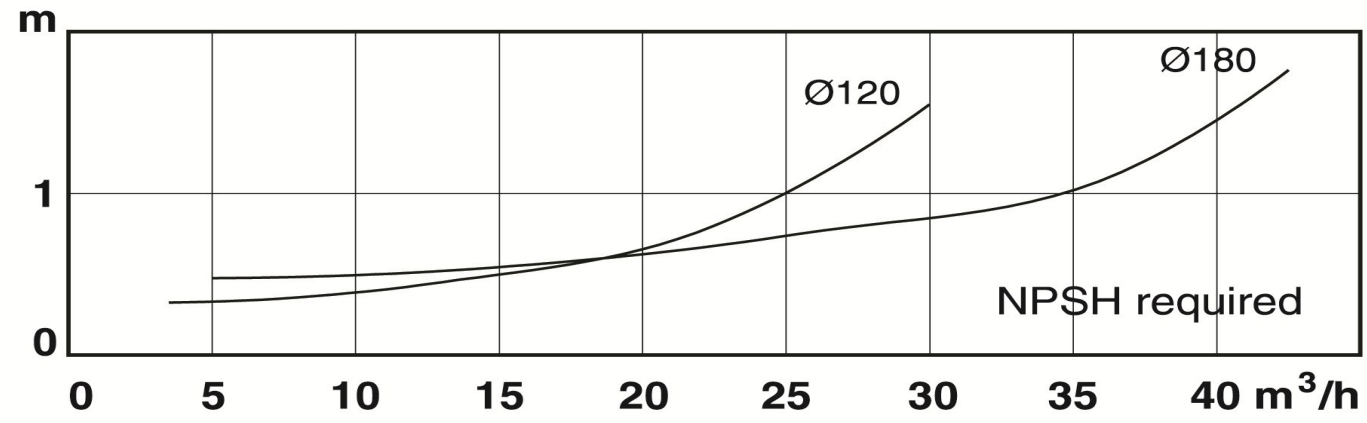
Notes:

Speed: n=1450^{-1} @ 50hz
Impeller: 120 mm minimum / 180 mm maximum
Pump Inlet: 76 mm
Pump Outlet: 63.5 mm

Performance data refer to water at 20°C P
Permissible tolerances ±5%





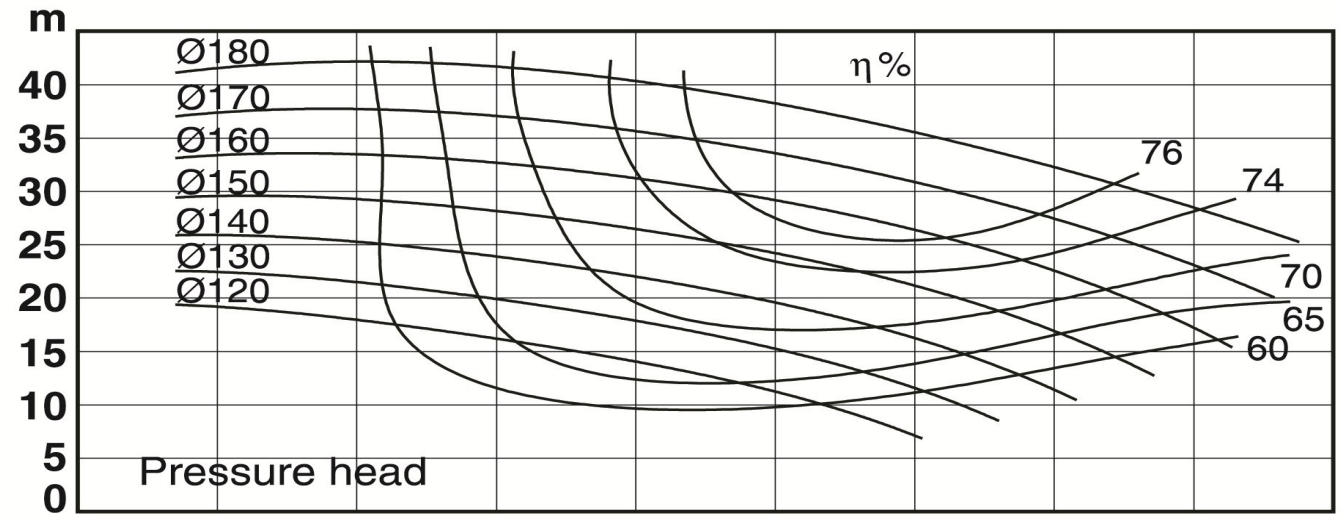


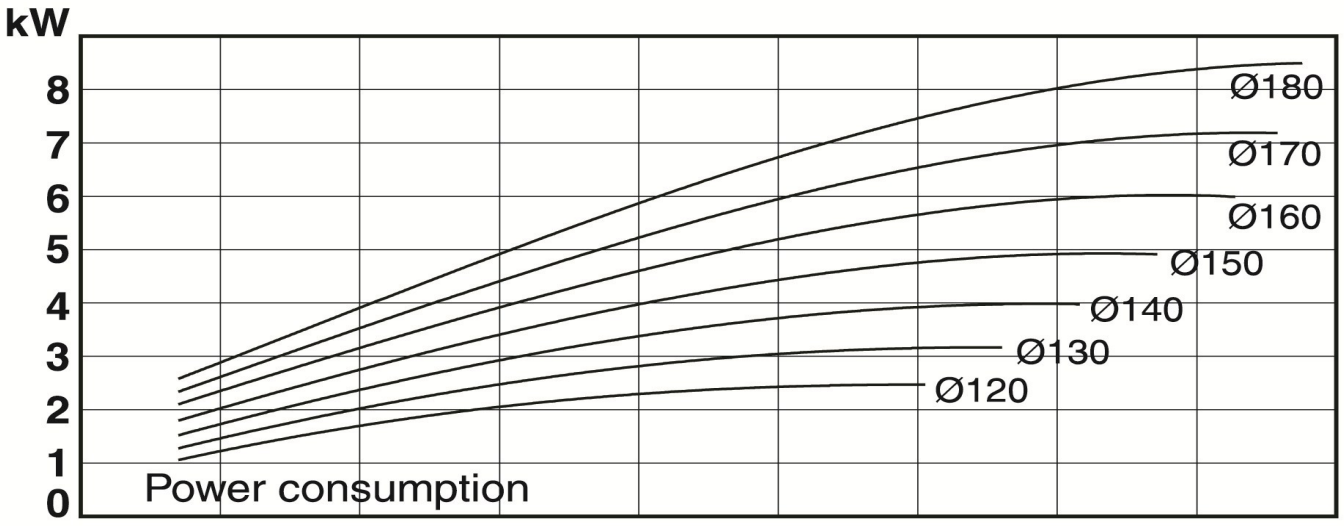
UC/055/180

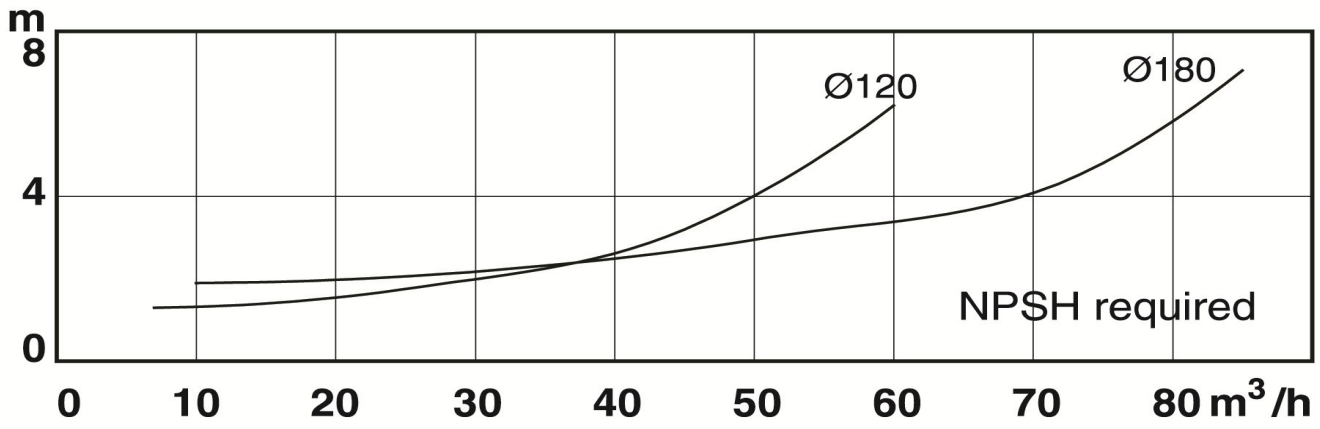
Notes:

Speed: n=2900^{-1} @ 50hz
Impeller: 120 mm minimum / 180 mm maximum
Pump Inlet: 76 mm
Pump Outlet: 63.5 mm

Performance data refer to water at 20°C P
Permissible tolerances ±5%





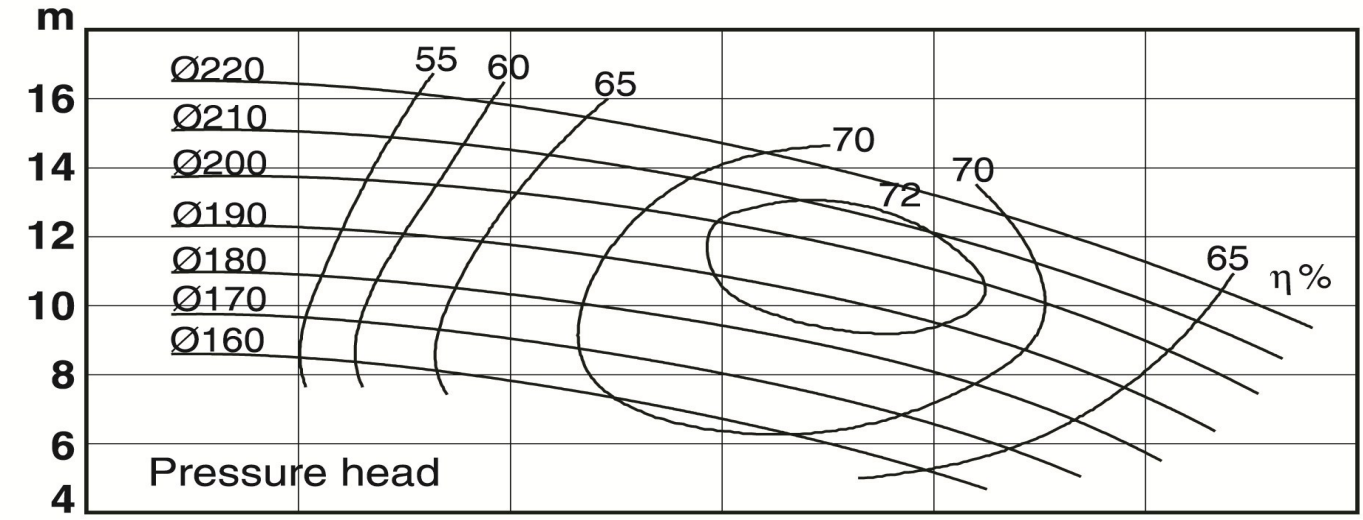


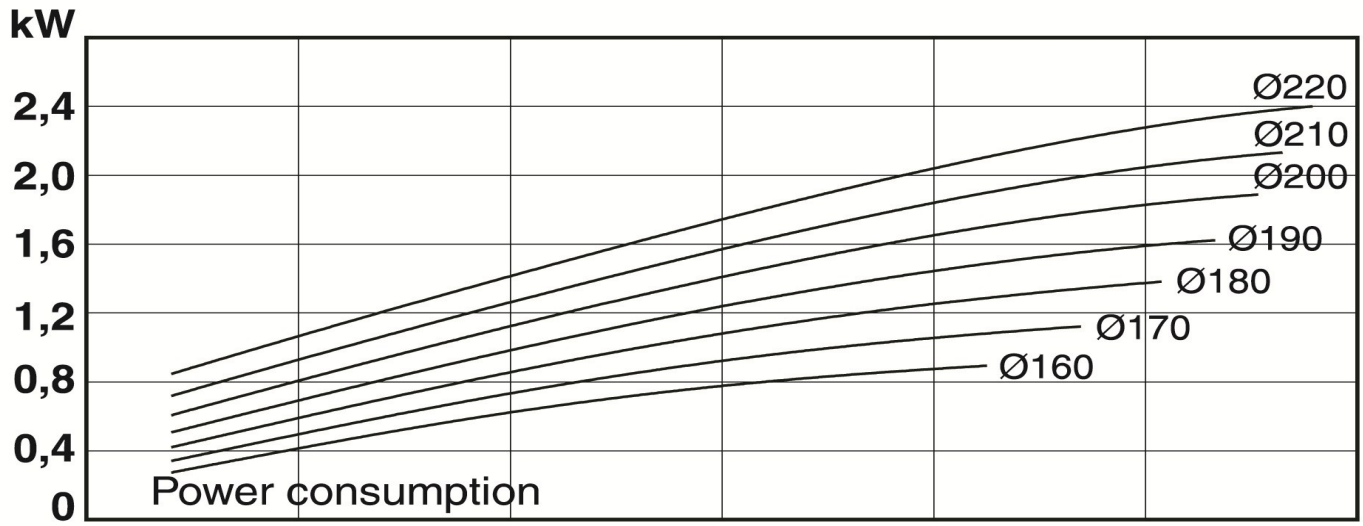
UC/060/220

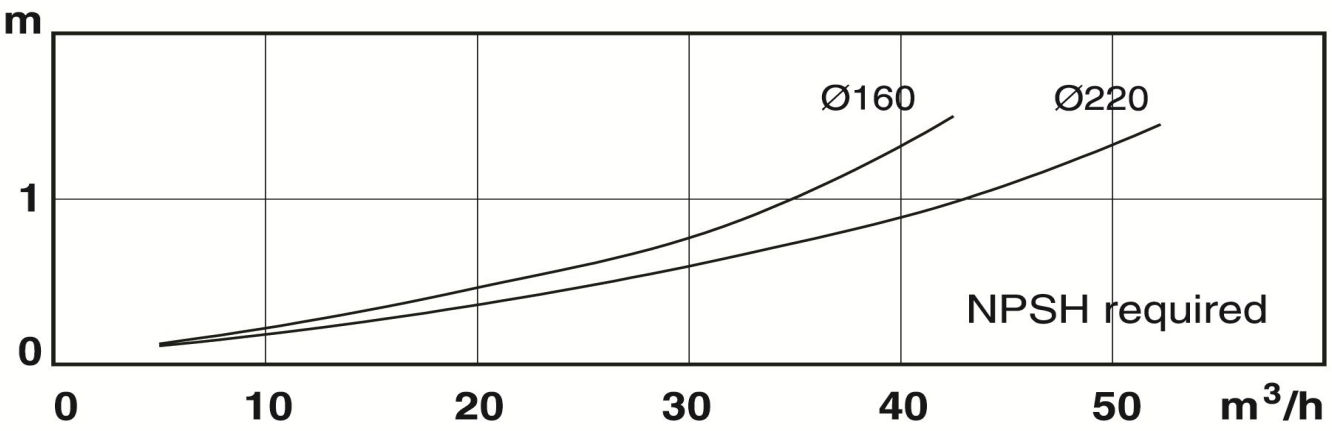
Notes:

Speed: n=1450^{-1} @ 50hz
Impeller: 160 mm minimum / 220 mm maximum
Pump Inlet: 76 mm
Pump Outlet: 51 mm

Performance data refer to water at 20°C P
Permissible tolerances ±5%





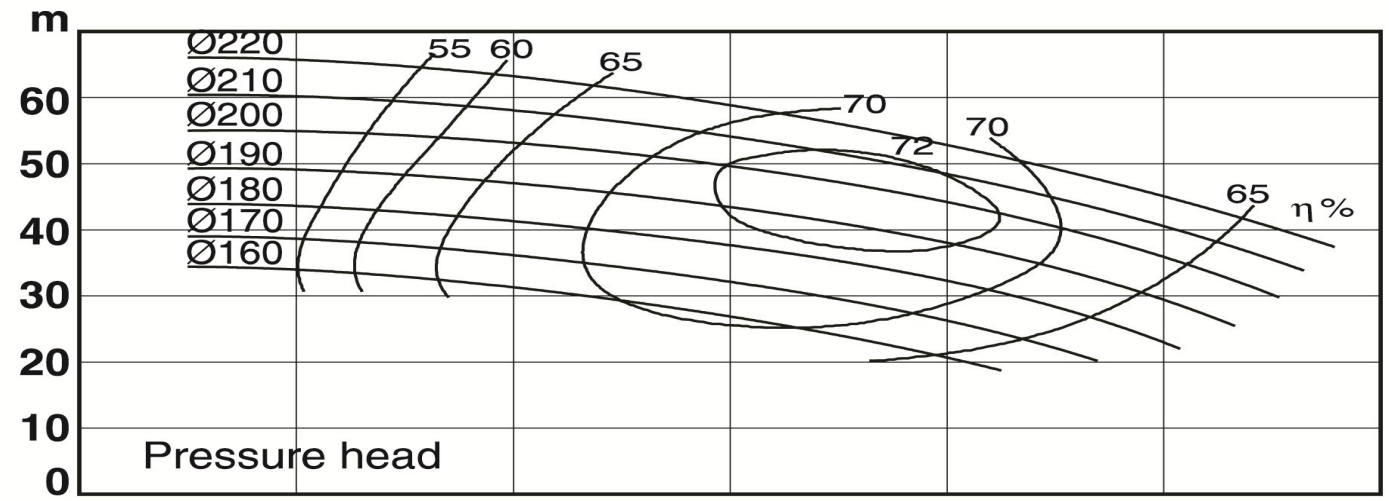


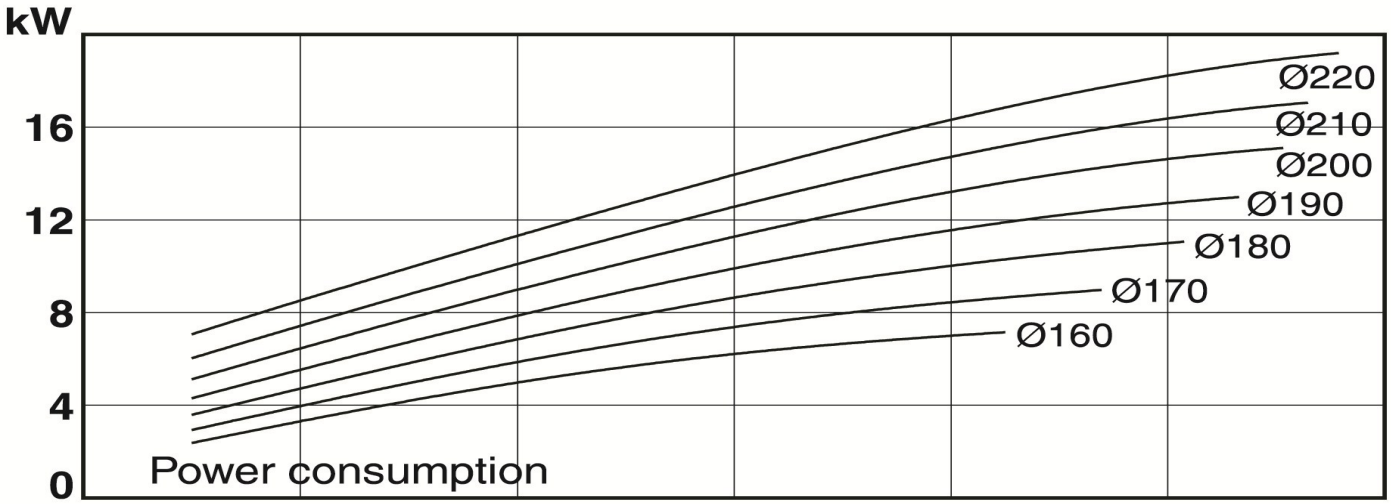
UC/060/220

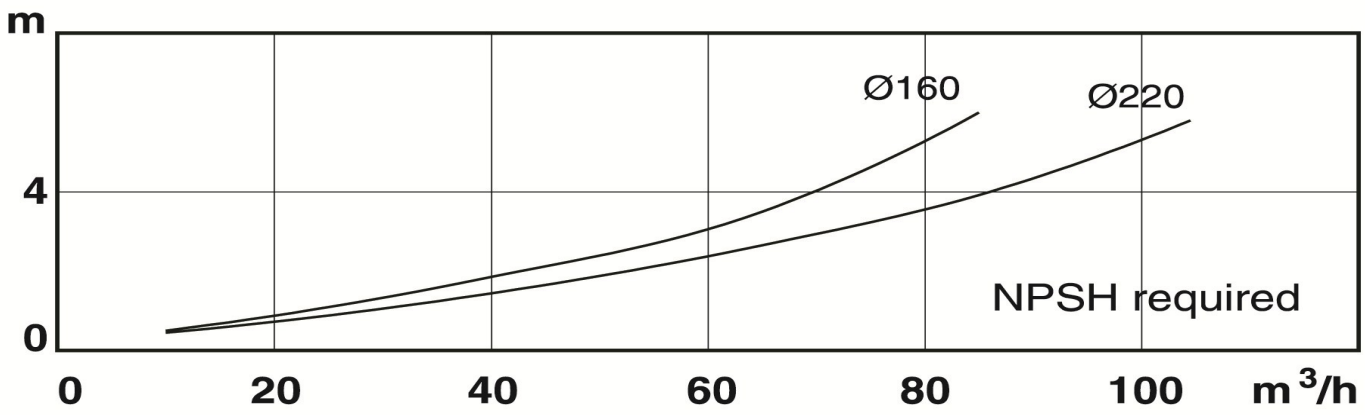
Notes:

Speed: n=2900^{-1} @ 50hz
Impeller: 160 mm minimum / 220 mm maximum
Pump Inlet: 76 mm
Pump Outlet: 51 mm

Performance data refer to water at 20°C P
Permissible tolerances ±5%





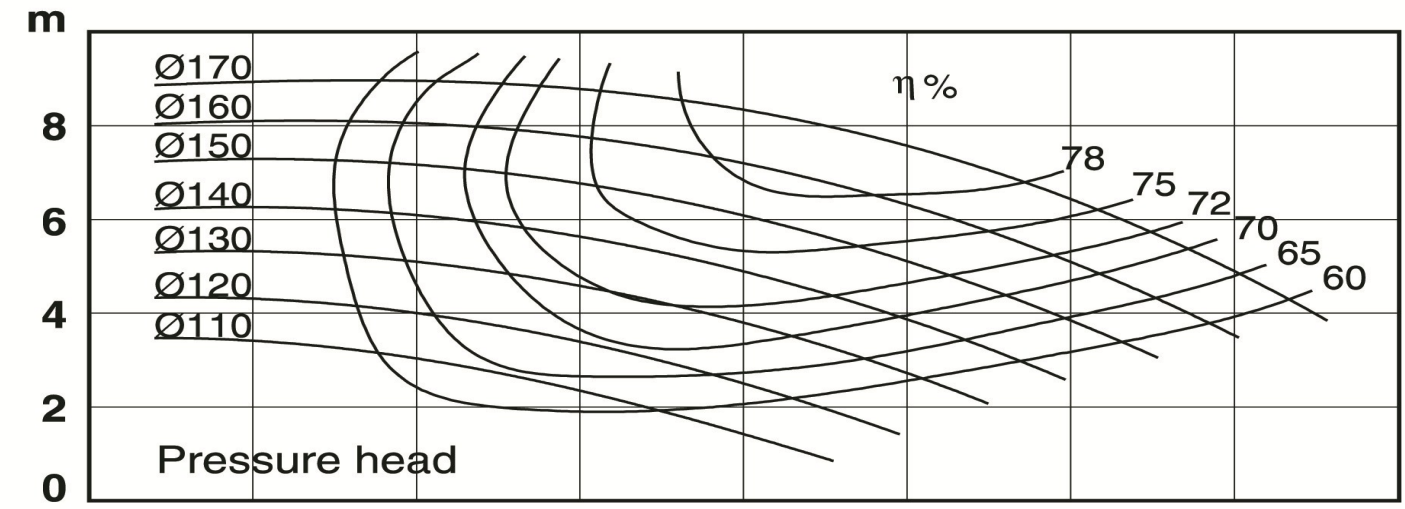


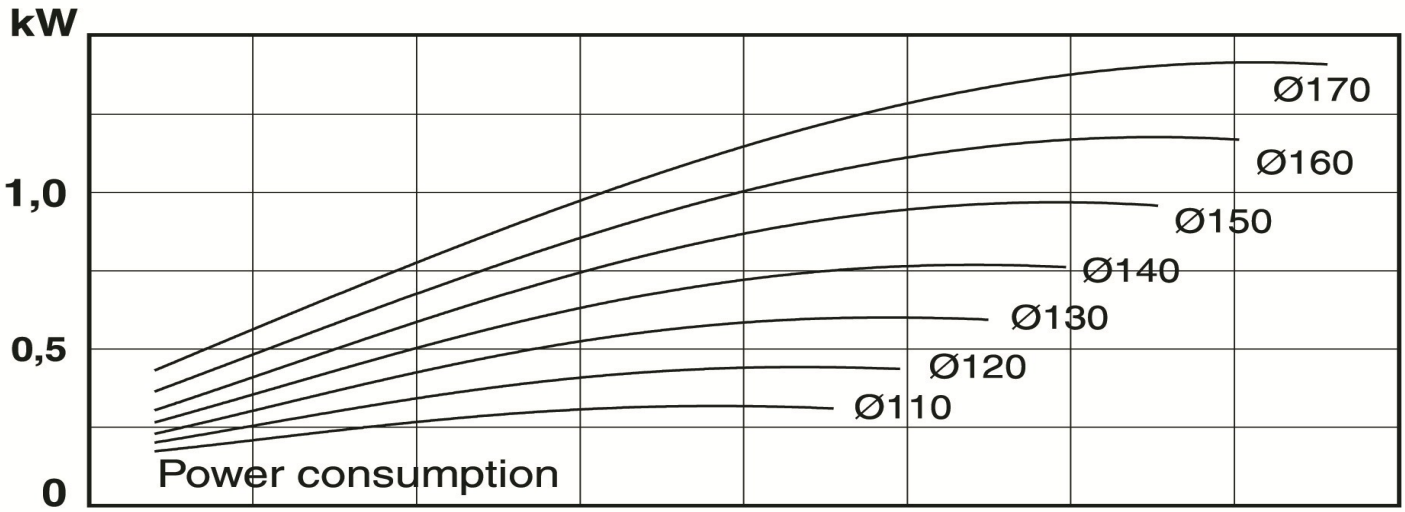
UC/080/170

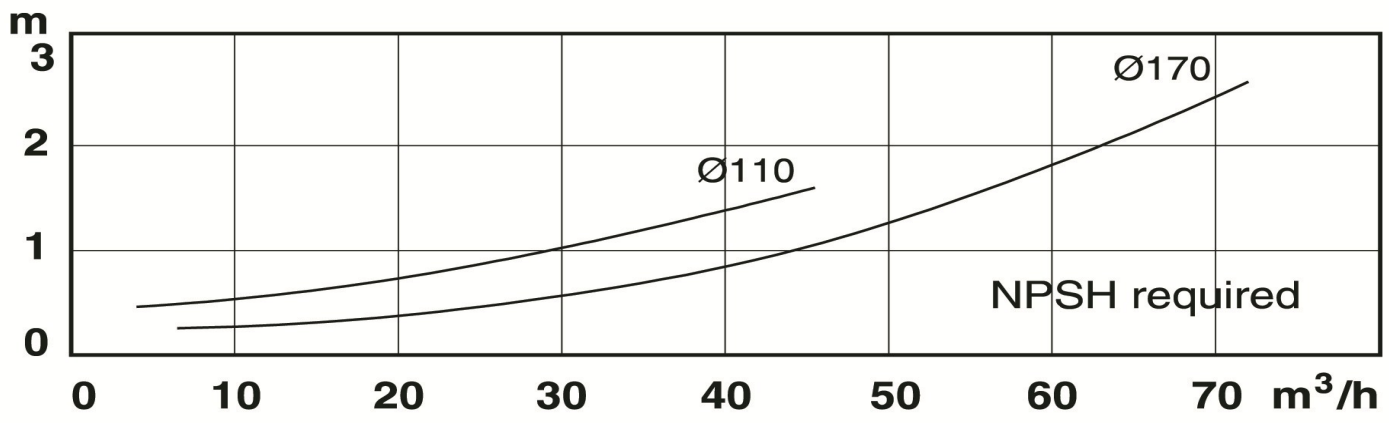
Notes:

Speed: n=1450^{-1} @ 50hz
Impeller: 110 mm minimum / 170 mm maximum
Pump Inlet: 101.6 mm
Pump Outlet: 76 mm

Performance data refer to water at 20°C P
Permissible tolerances ±5%





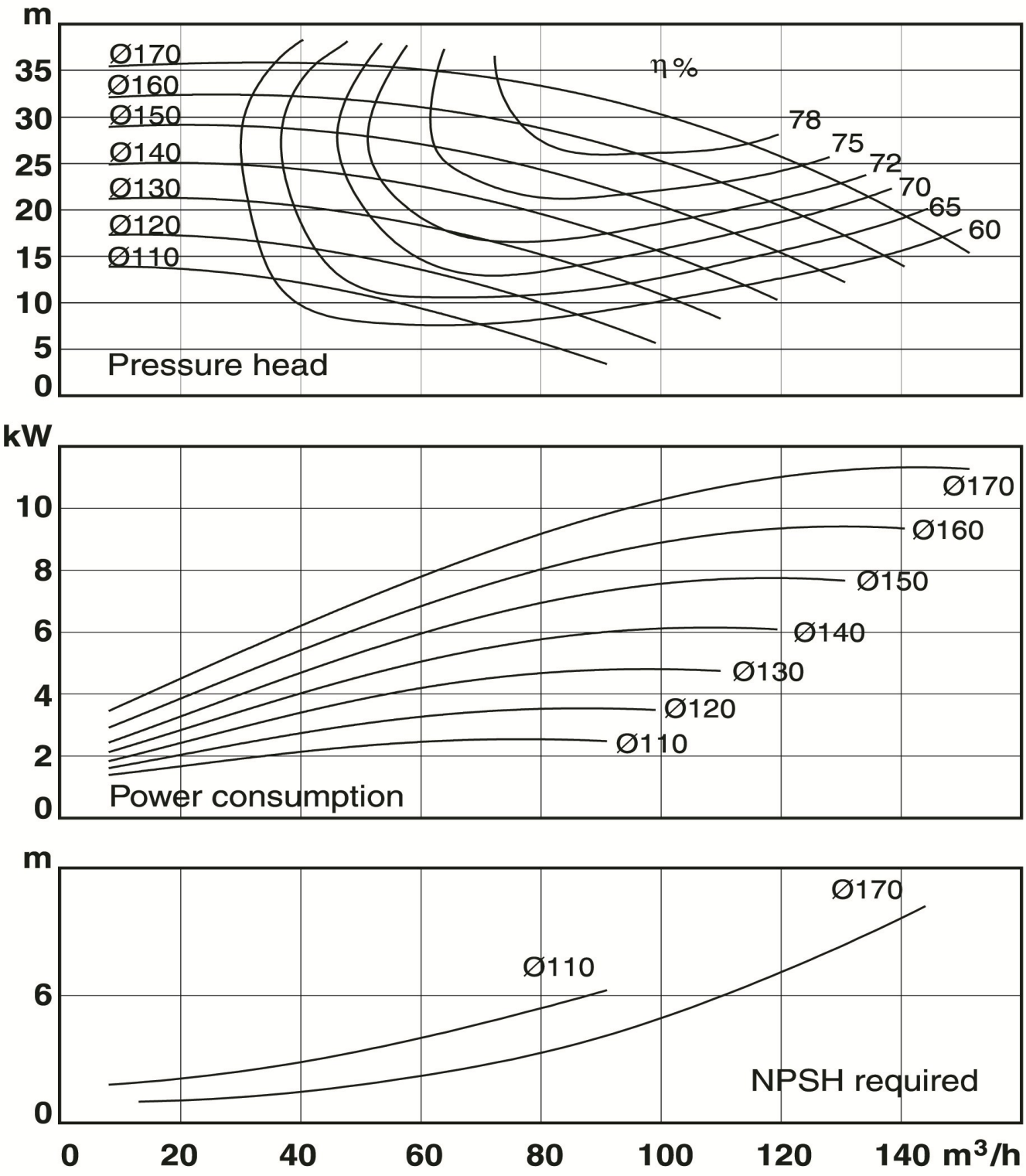


UC/080/170

Notes:

Speed: n=2900^{-1} @ 50hz
Impeller: 110 mm minimum / 170 mm maximum
Pump Inlet: 101.6 mm
Pump Outlet: 76 mm

Performance data refer to water at 20°C P
Permissible tolerances ±5%

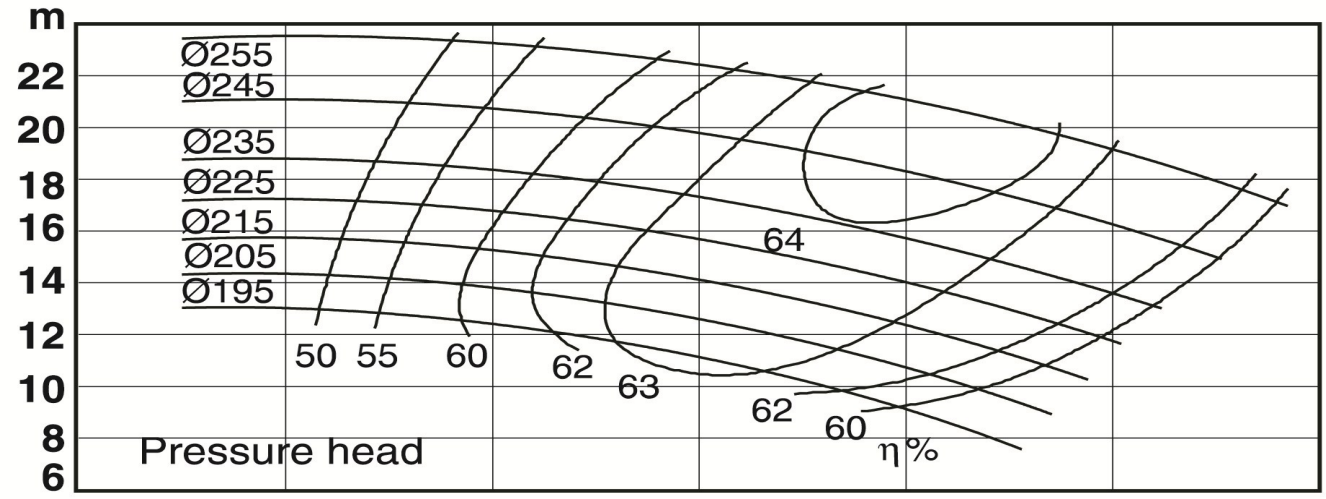


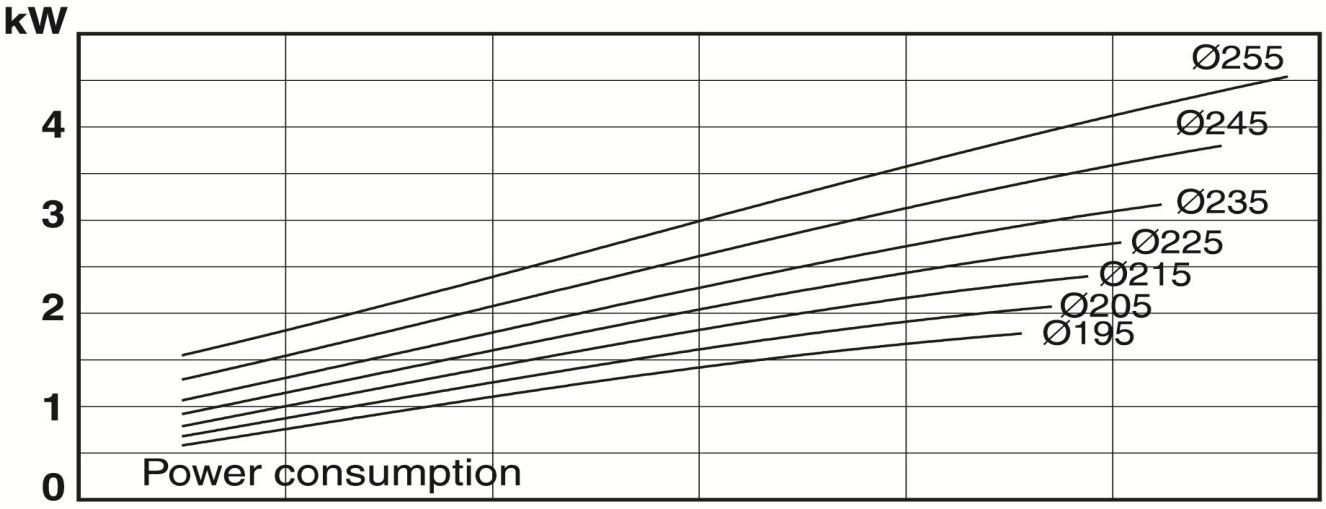
UC/080/255

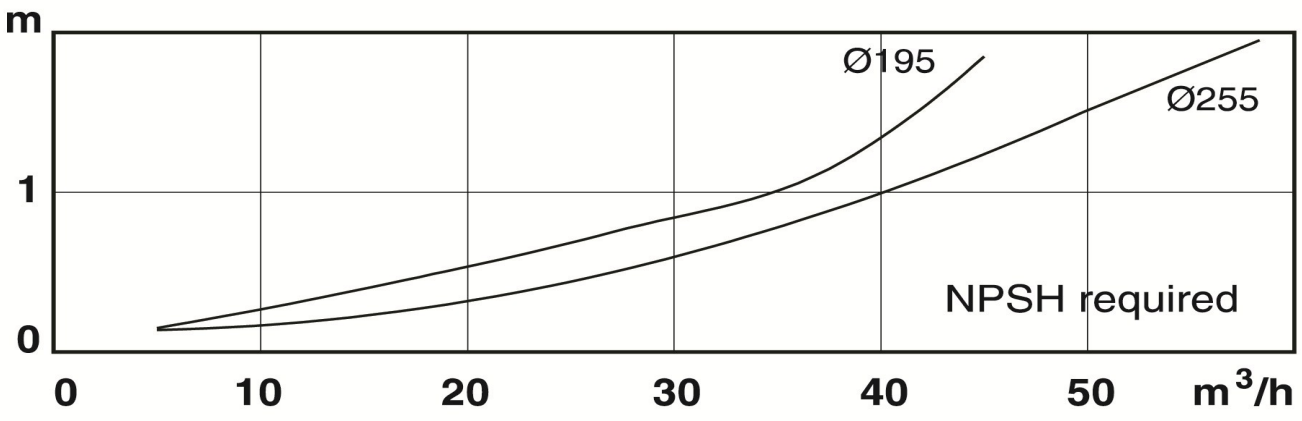
Notes:

Speed: n=1450^{-1} @ 50hz
Impeller: 195 mm minimum / 255 mm maximum
Pump Inlet: 76 mm
Pump Outlet: 51 mm

Performance data refer to water at 20°C P
Permissible tolerances ±5%





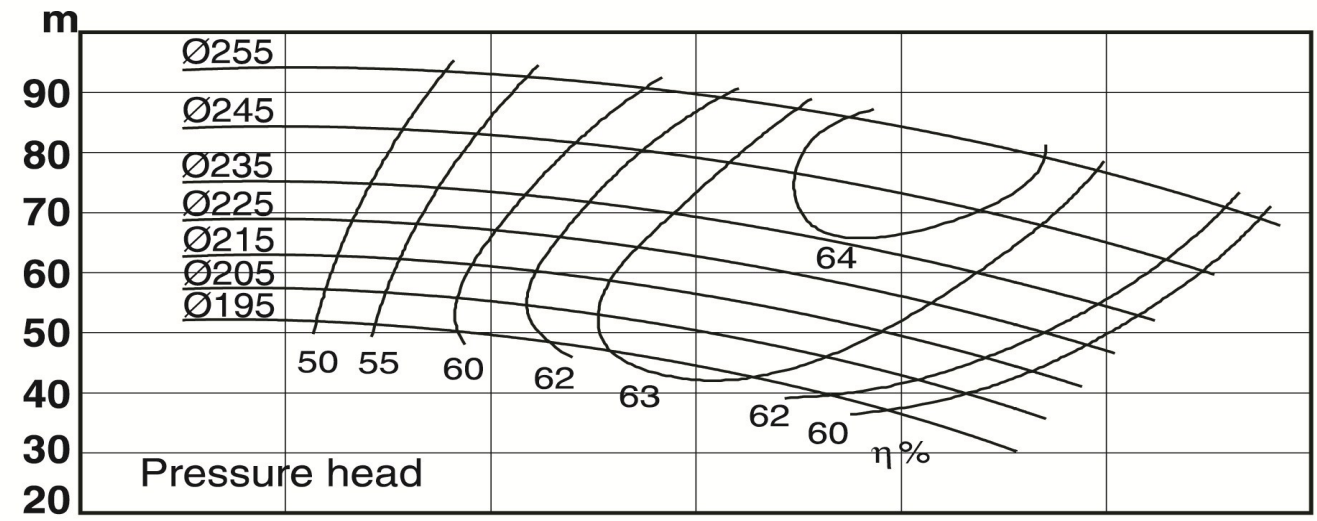


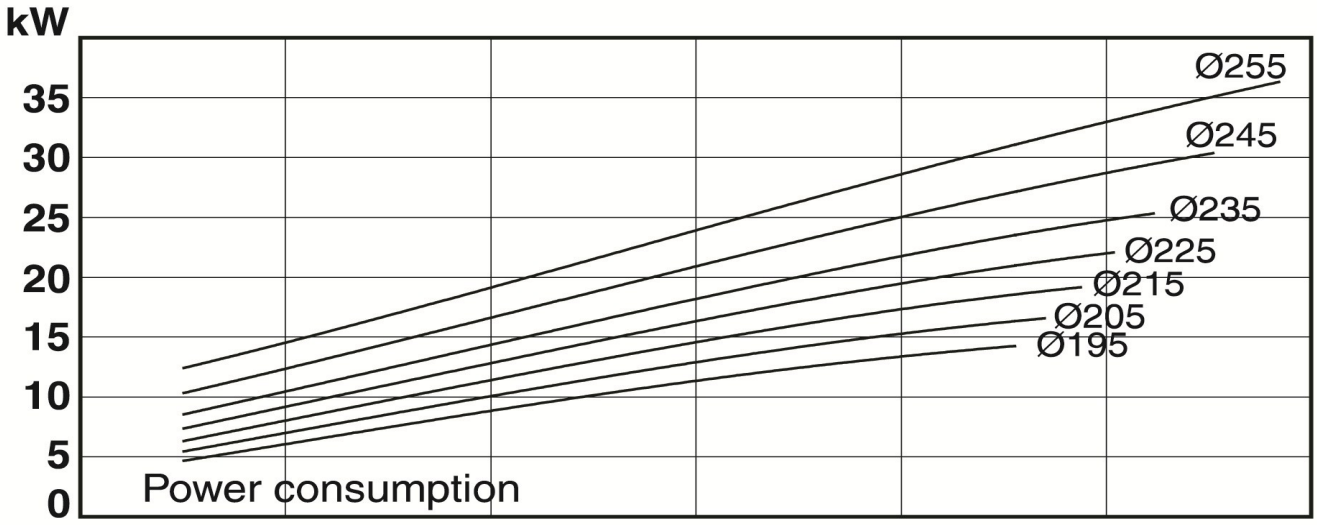
UC/080/255

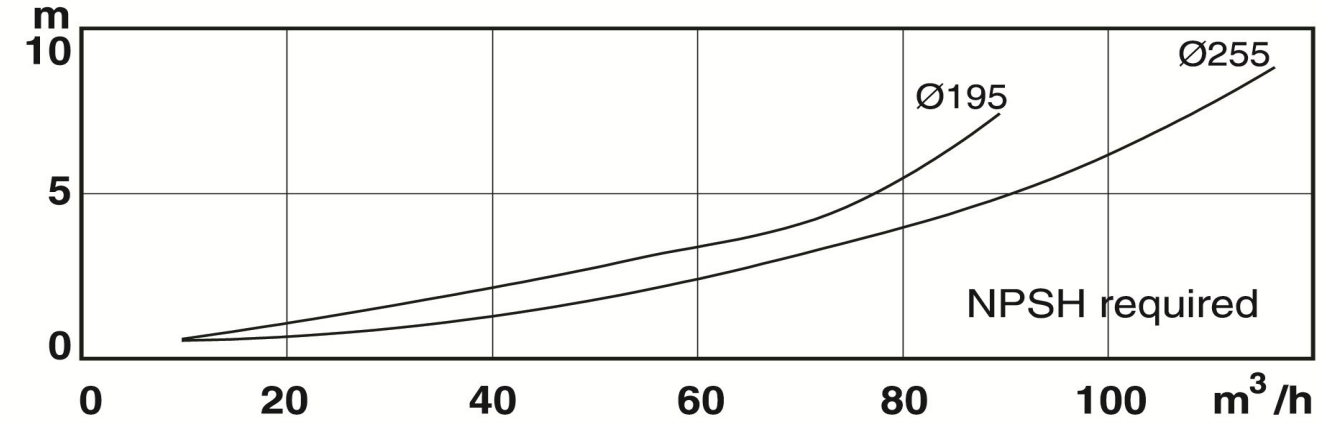
Notes:

Speed: n=2900^{-1} @ 50hz
Impeller: 195 mm minimum / 255 mm maximum
Pump Inlet: 76 mm
Pump Outlet: 51 mm

Performance data refer to water at 20°C P
Permissible tolerances ±5%





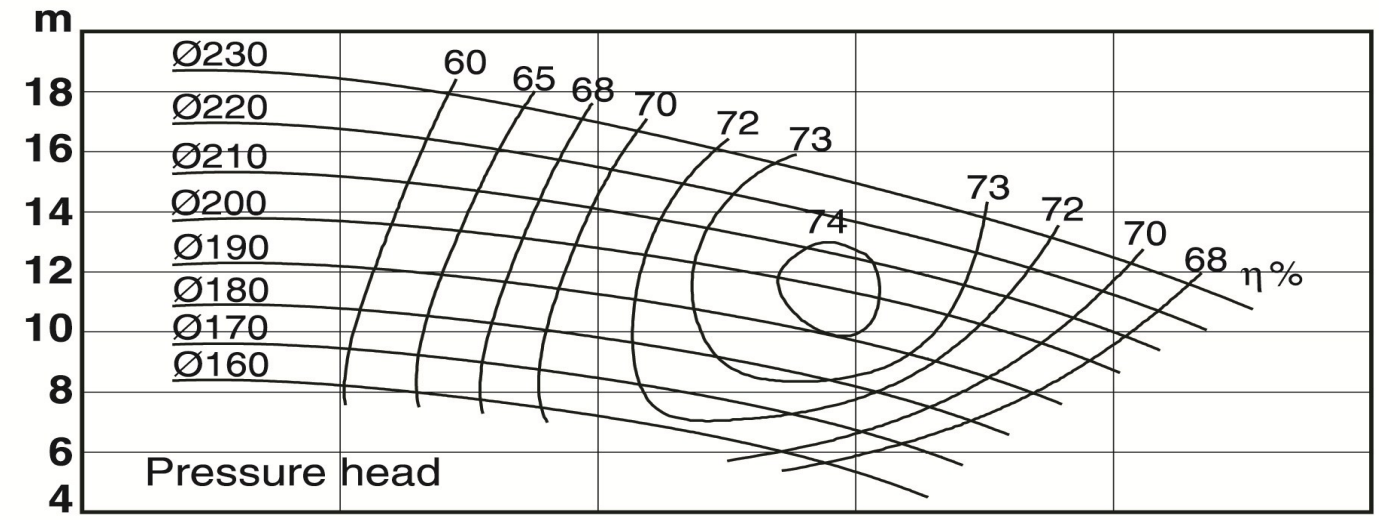


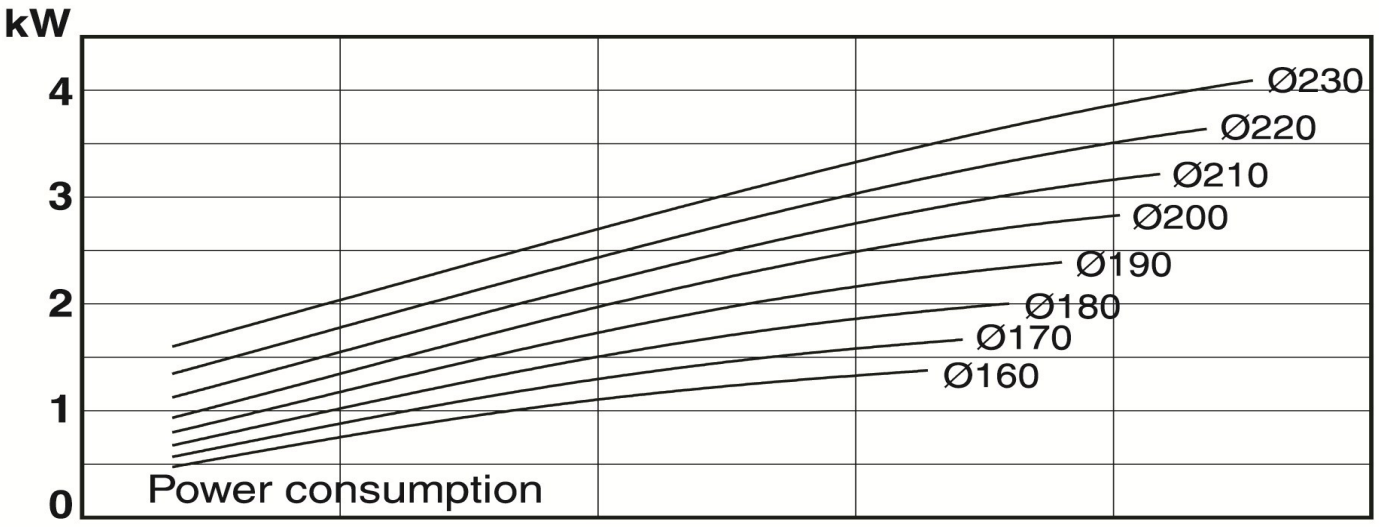
UC/110/230

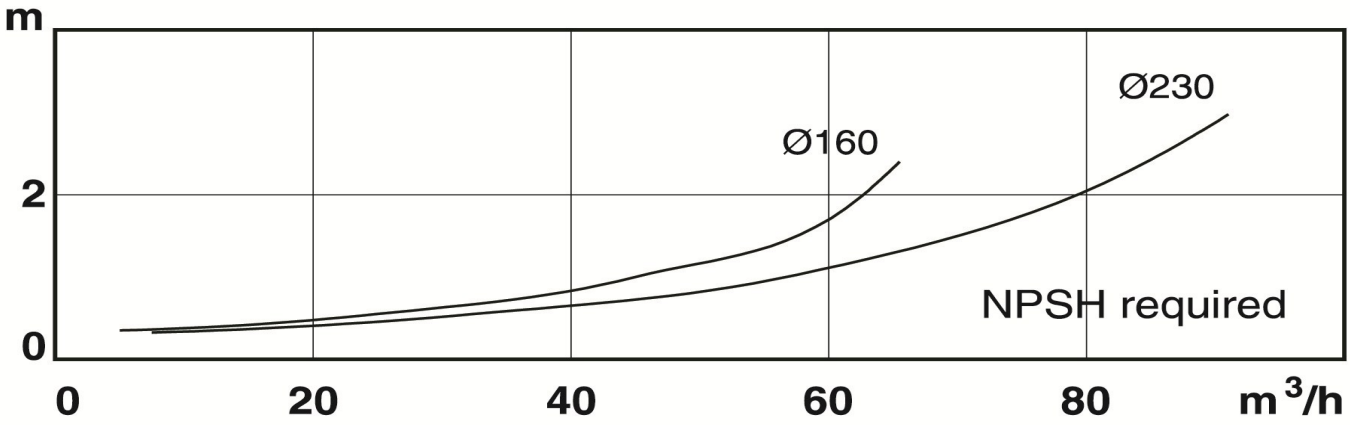
Notes:

Speed: n=1450^{-1} @ 50hz
Impeller: 160 mm minimum / 230 mm maximum
Pump Inlet: 101,6 mm
Pump Outlet: 76 mm

Performance data refer to water at 20°C P
Permissible tolerances ±5%





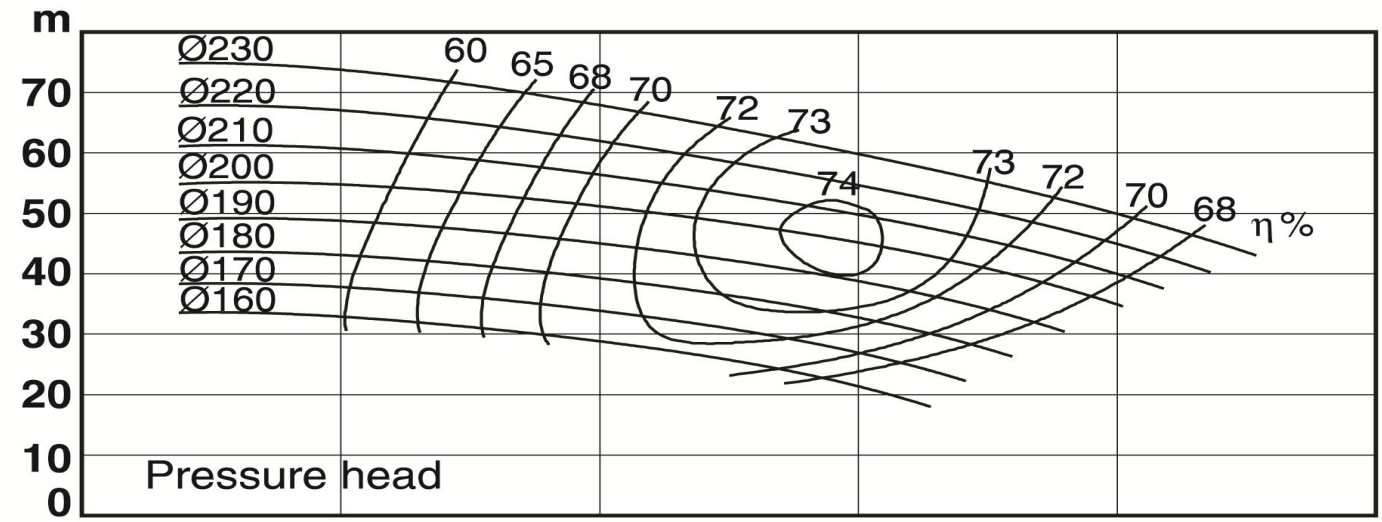


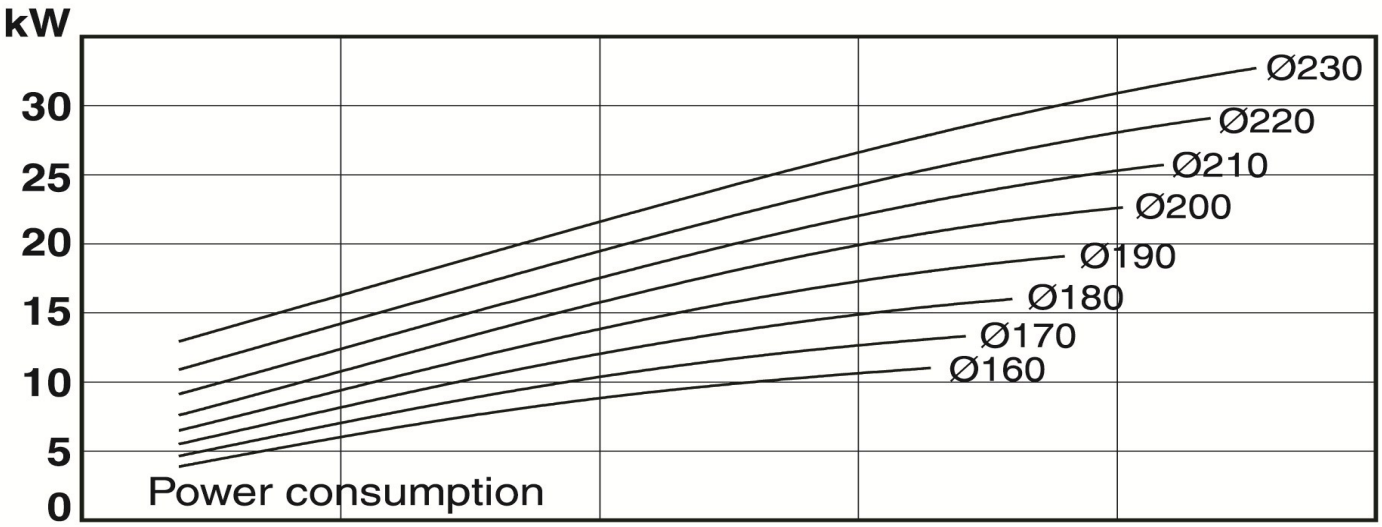
UC/110/230

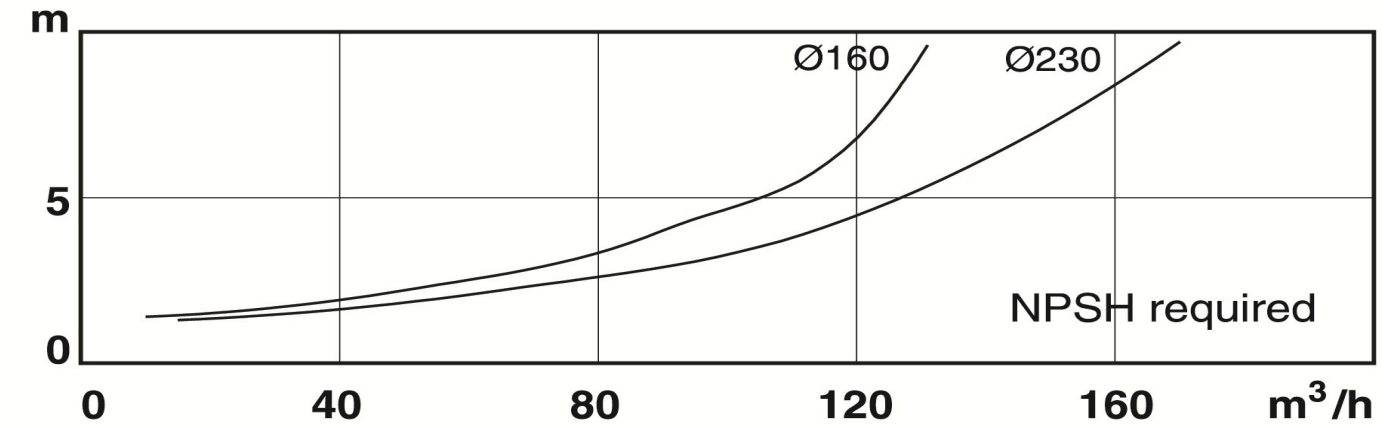
Notes:

Speed: n=2900^{-1} @ 50hz
Impeller: 160 mm minimum / 230 mm maximum
Pump Inlet: 101,6 mm
Pump Outlet: 76 mm

Performance data refer to water at 20°C P
Permissible tolerances ±5%





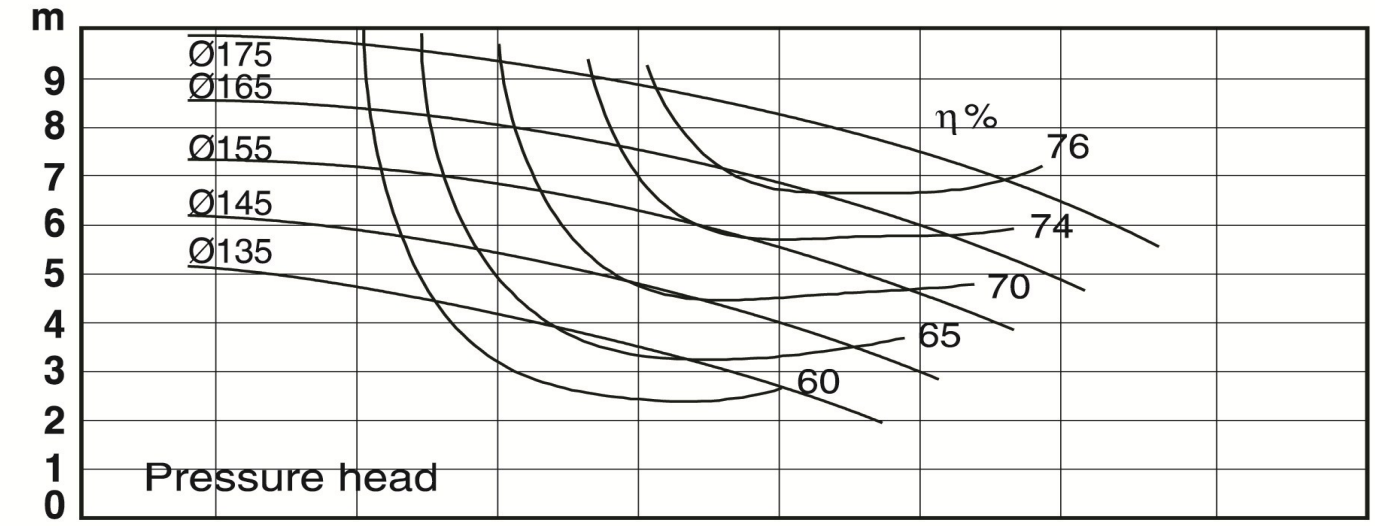


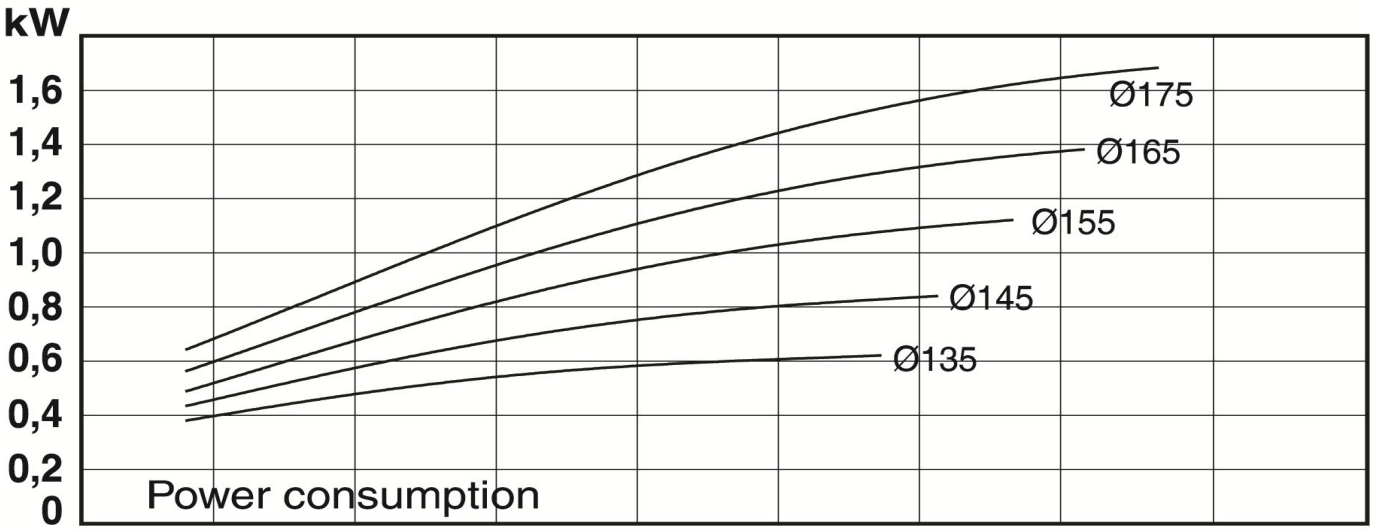
UC/120/175

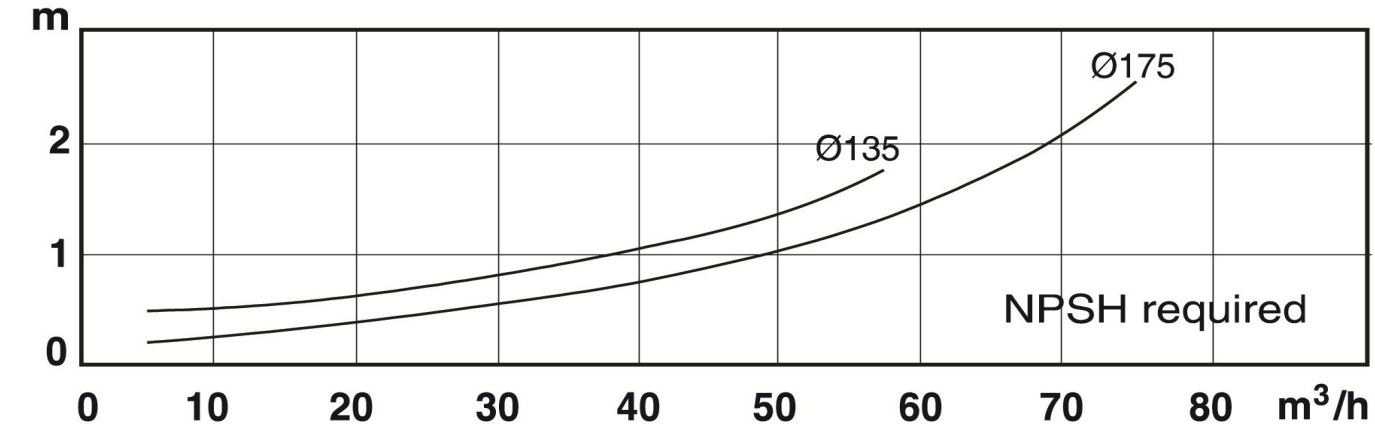
Notes:

Speed: n=1450^{-1} @ 50hz
Impeller: 135 mm minimum / 175 mm maximum
Pump Inlet: 101,6 mm
Pump Outlet: 76 mm

Performance data refer to water at 20°C P
Permissible tolerances ±5%





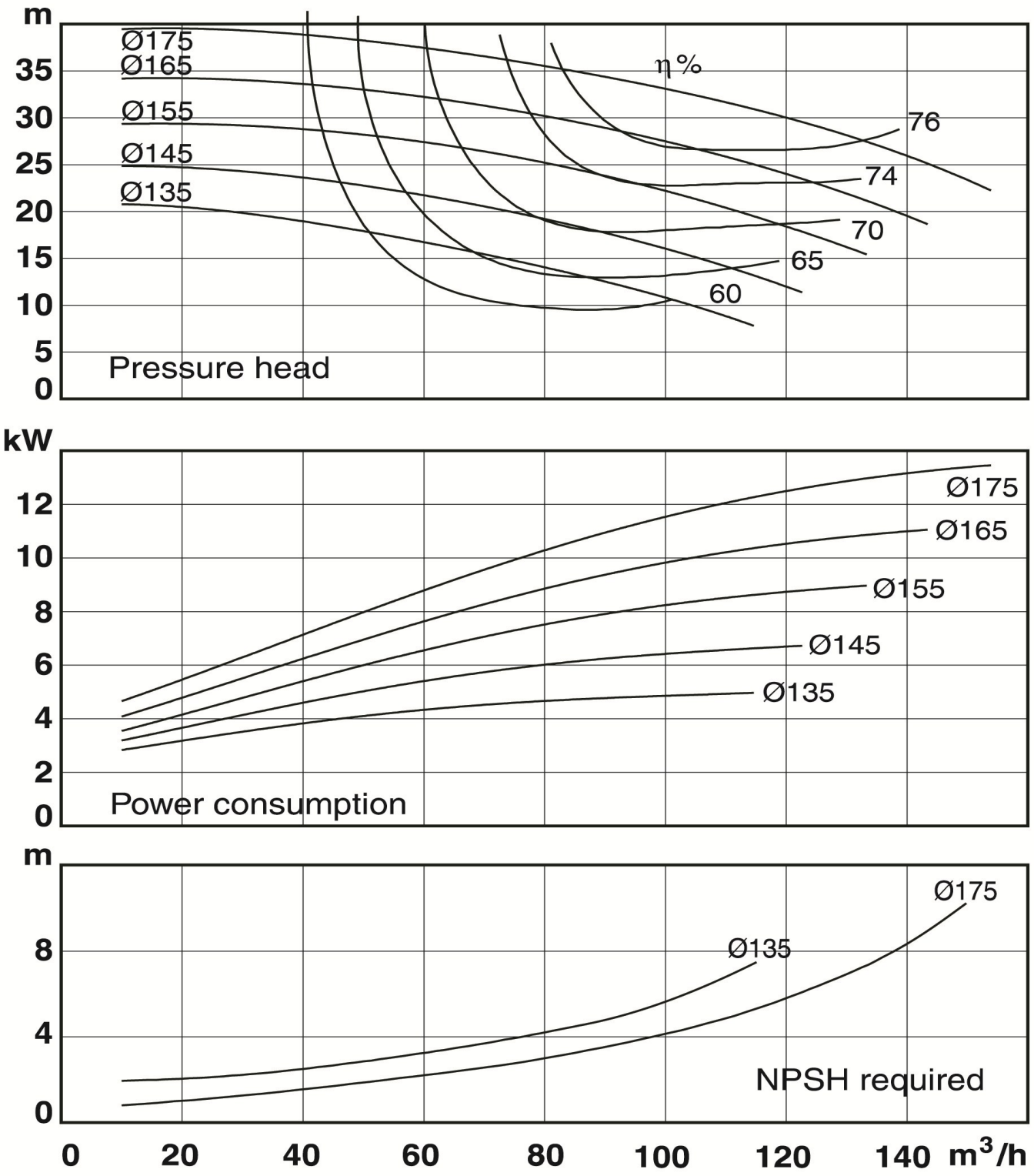


UC/120/175

Notes:

Speed: n=2900^{-1} @ 50hz
Impeller: 135 mm minimum / 175 mm maximum
Pump Inlet: 101,6 mm
Pump Outlet: 76 mm

Performance data refer to water at 20°C P
Permissible tolerances ±5%

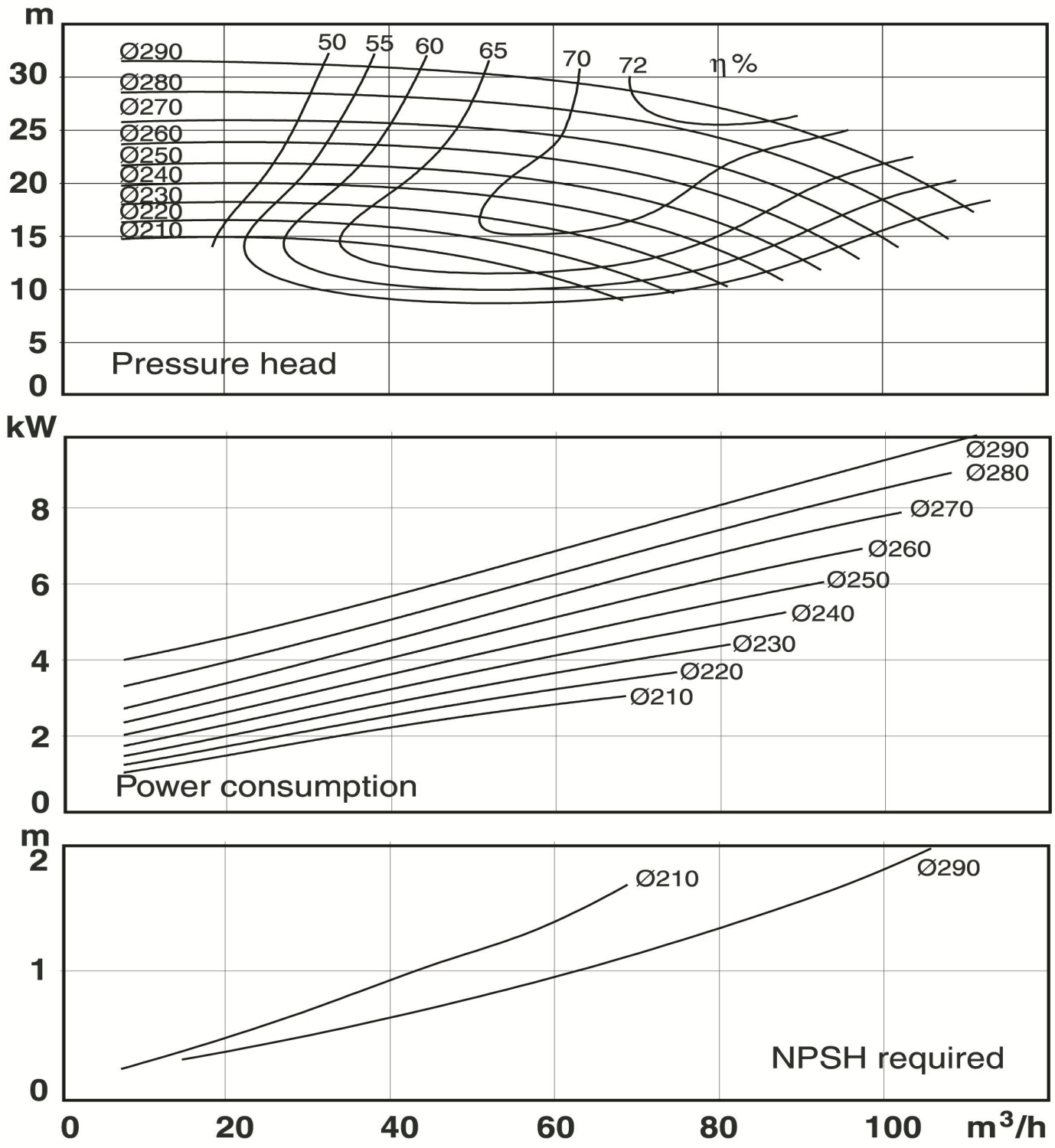


UC/130/290

Notes:

Speed: n=1450^{-1} @ 50hz
Impeller: 210 mm minimum / 290 mm maximum
Pump Inlet: 101,6 mm
Pump Outlet: 76 mm

Performance data refer to water at 20°C P
Permissible tolerances ±5%

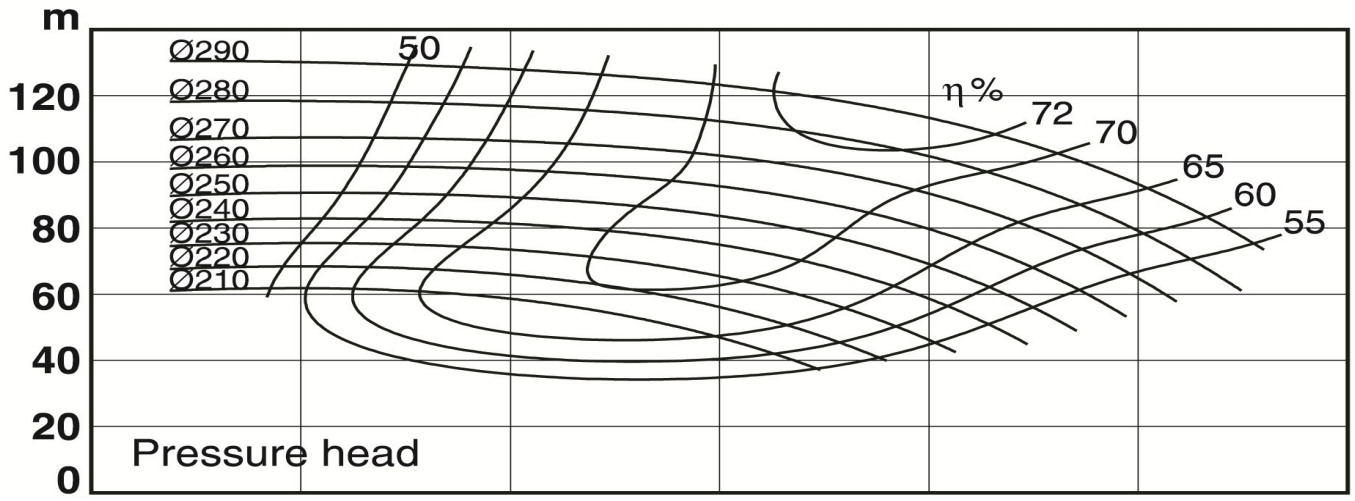


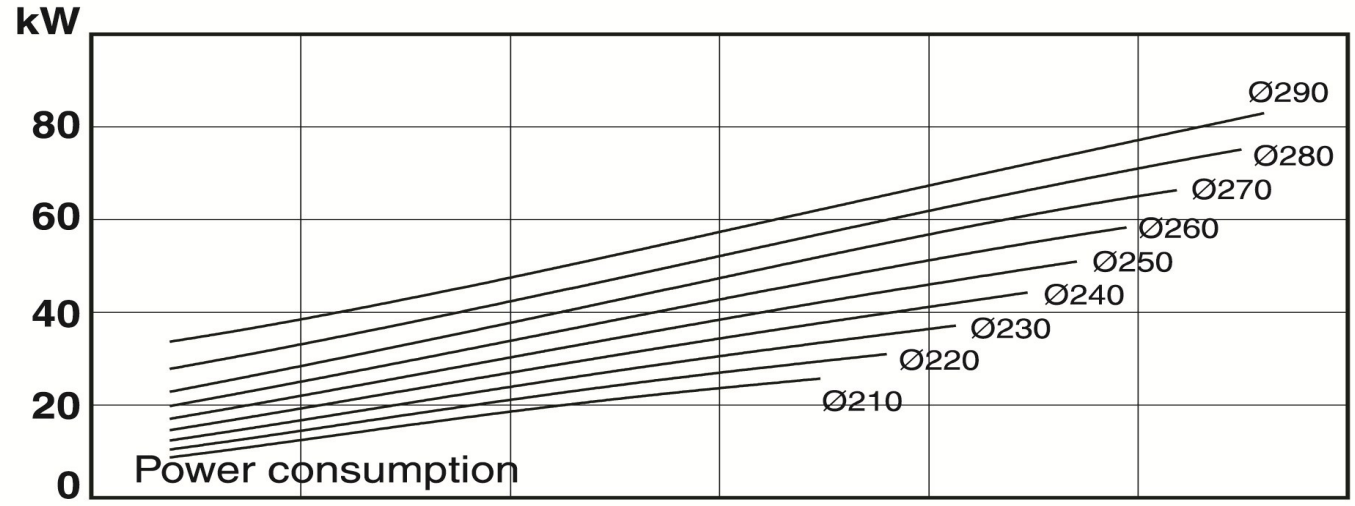
UC/130/290

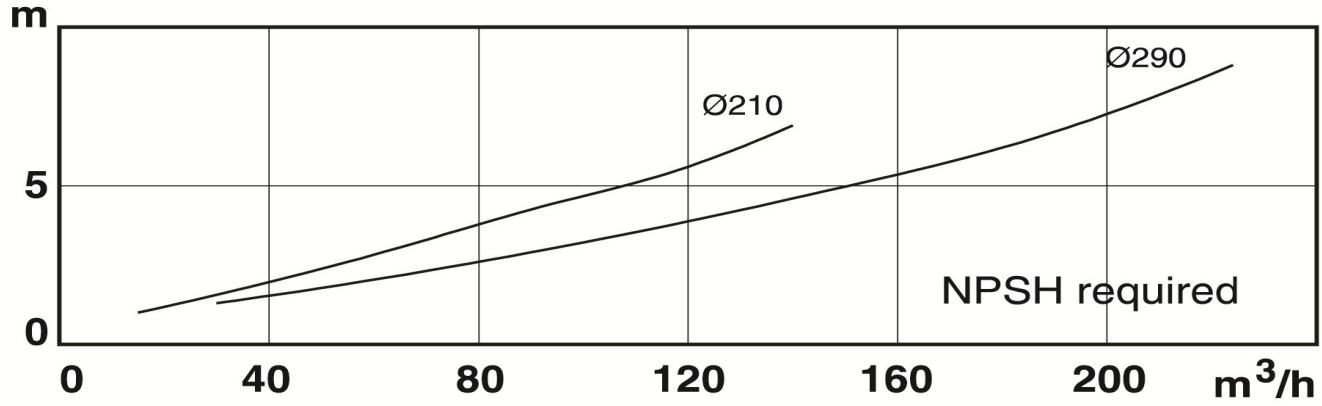
Notes:

Speed: n=2900^{-1} @ 50hz
Impeller: 210 mm minimum / 290 mm maximum
Pump Inlet: 101,6 mm
Pump Outlet: 76 mm

Performance data refer to water at 20°C P
Permissible tolerances ±5%





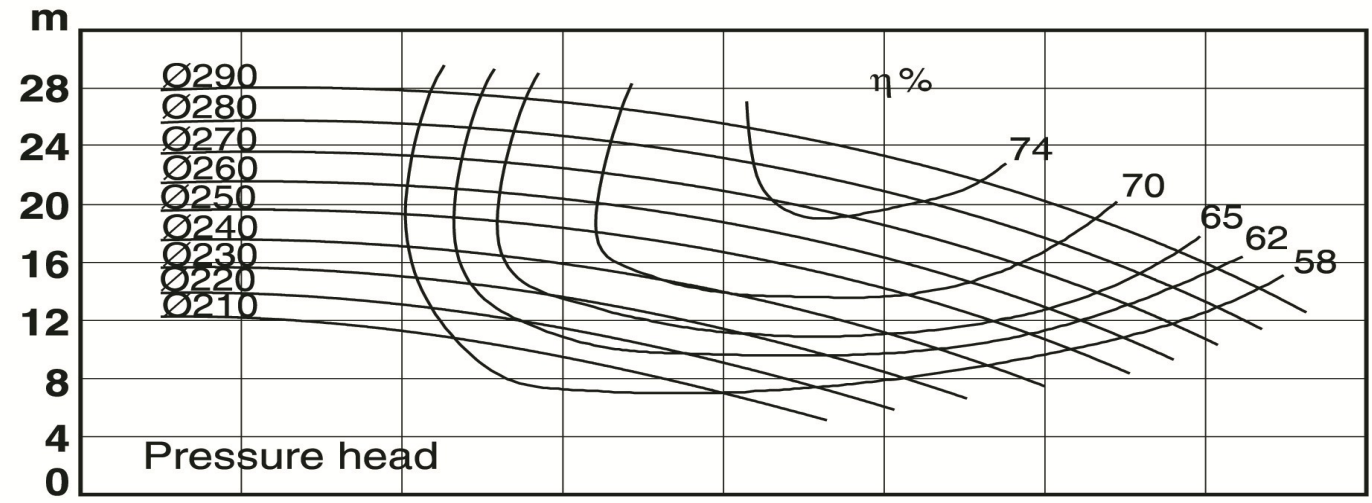


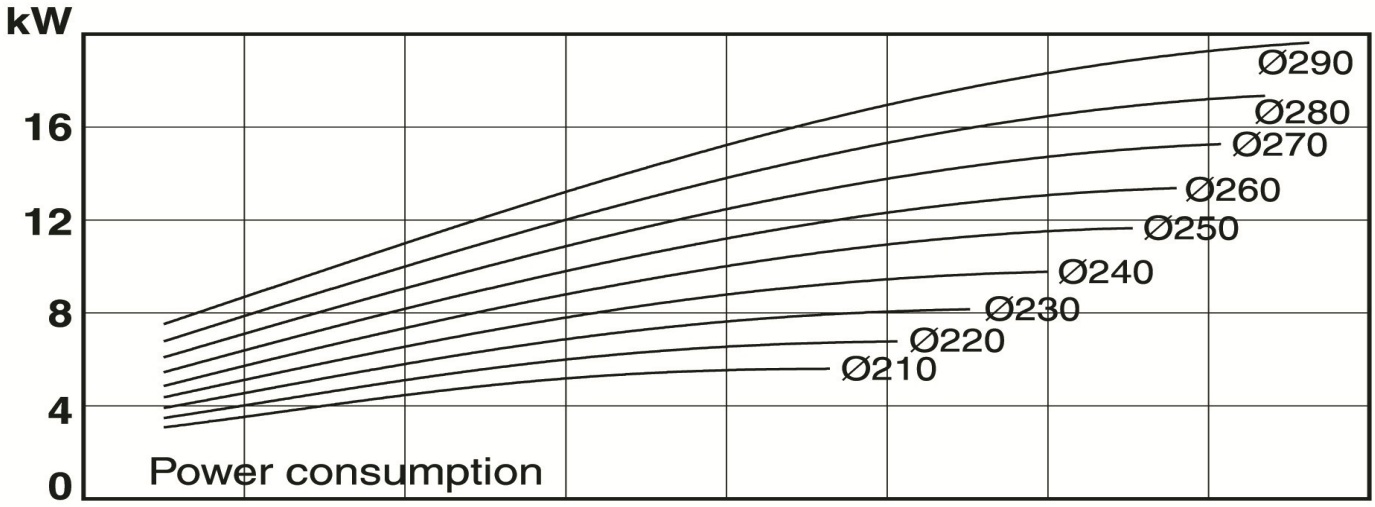
UC/210/290

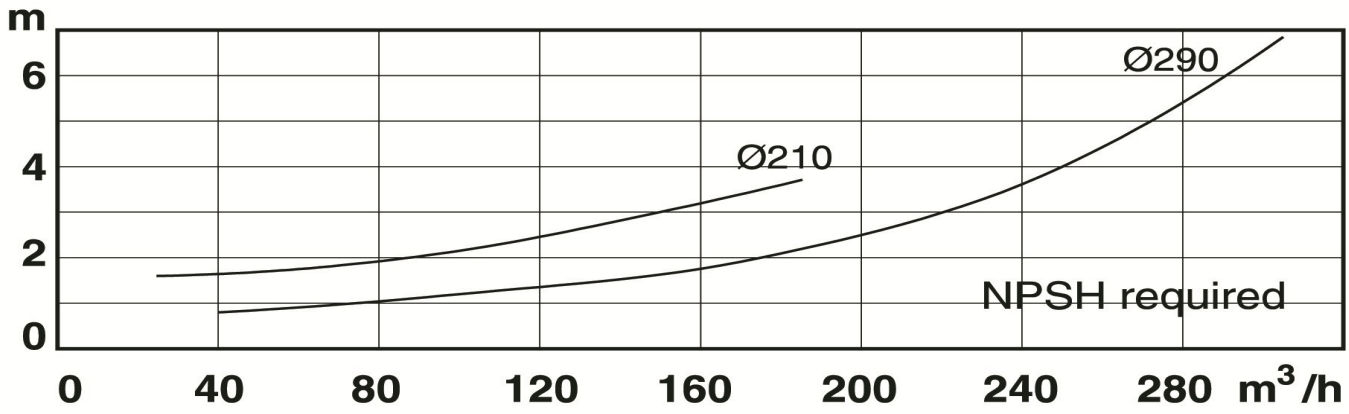
Notes:

Speed: n=1450^{-1} @ 50hz
Impeller: 210 mm minimum / 290 mm maximum
Pump Inlet: NW 150
Pump Outlet: NW 100

Performance data refer to water at 20°C P
Permissible tolerances ±5%





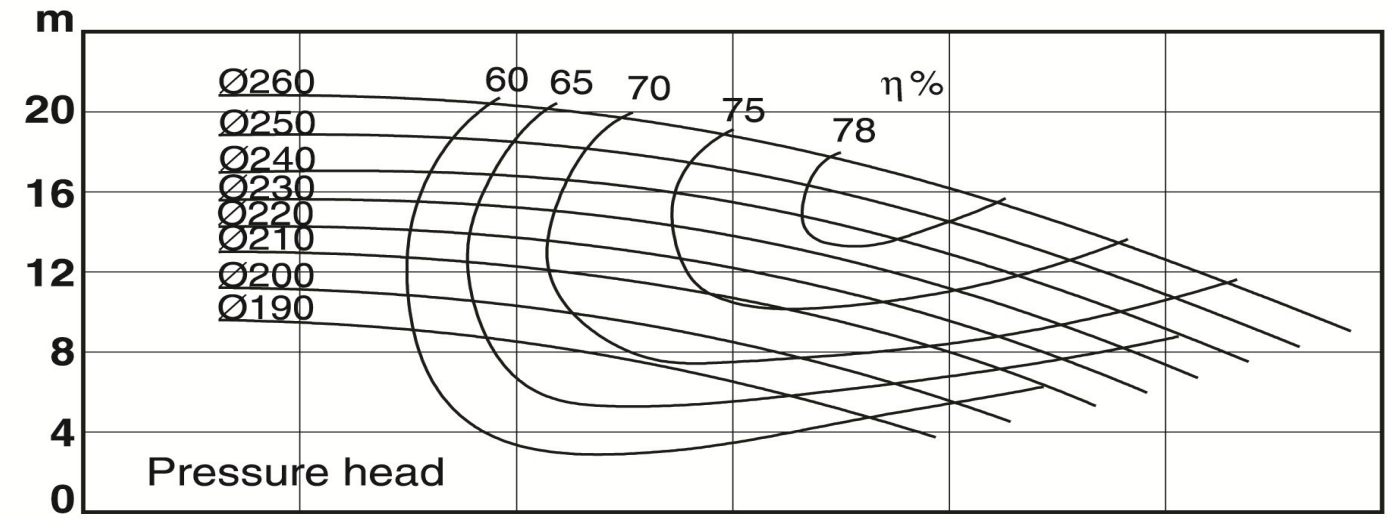


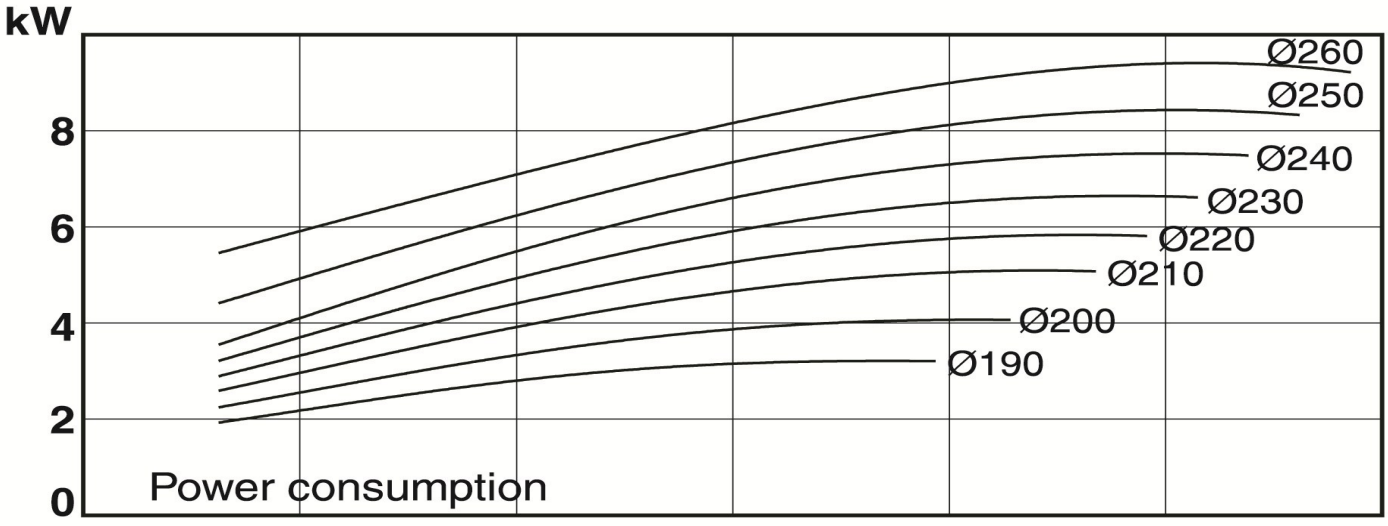
UC/350/260

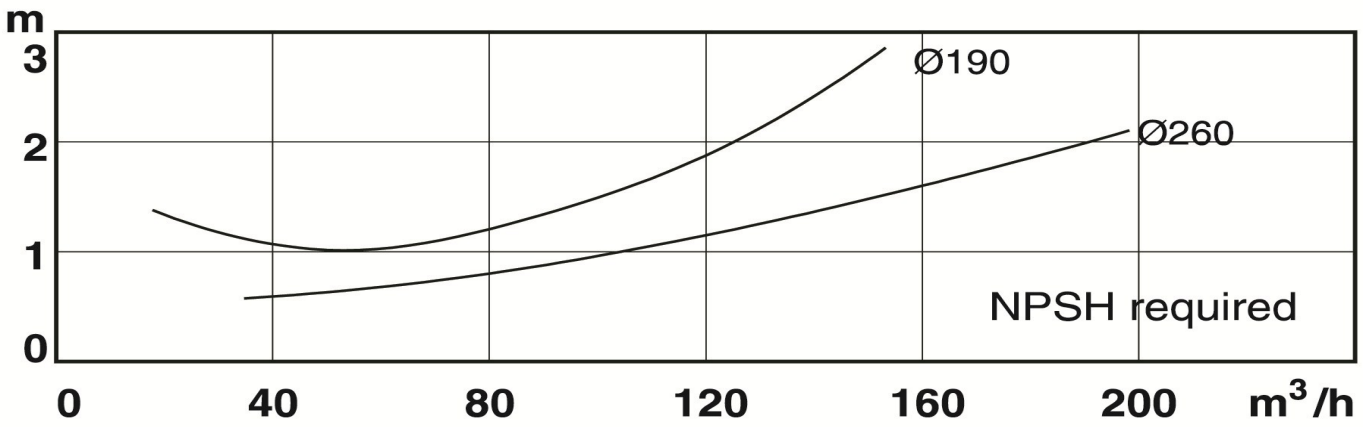
Notes:

Speed: n=1450^{-1} @ 50hz
Impeller: 190 mm minimum / 260 mm maximum
Pump Inlet: NW 150
Pump Outlet: NW 100

Performance data refer to water at 20°C P
Permissible tolerances ±5%





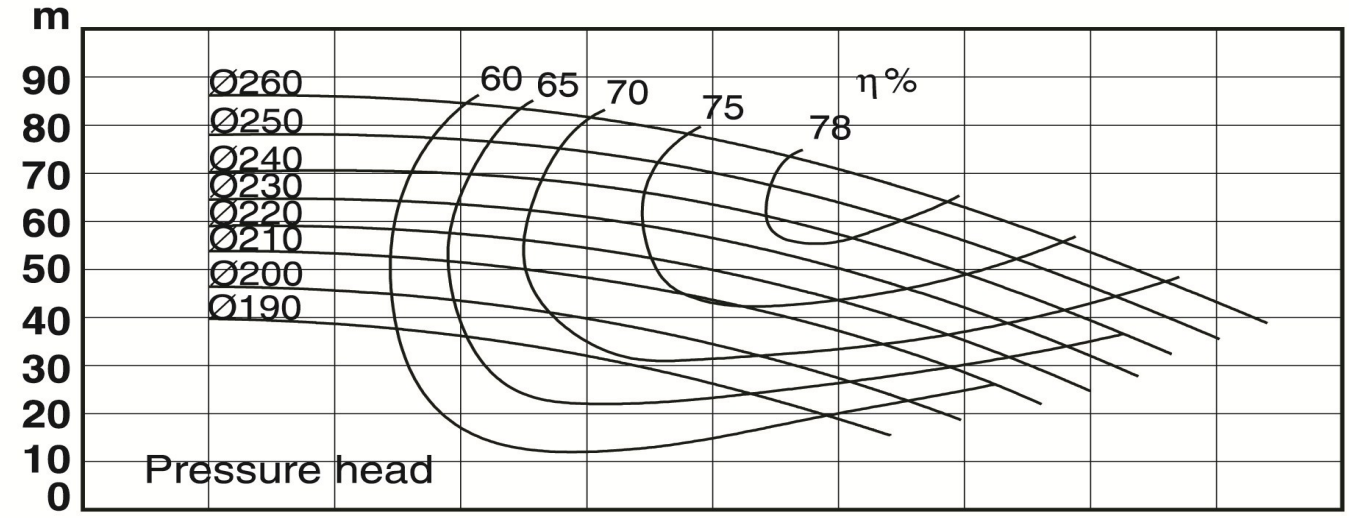


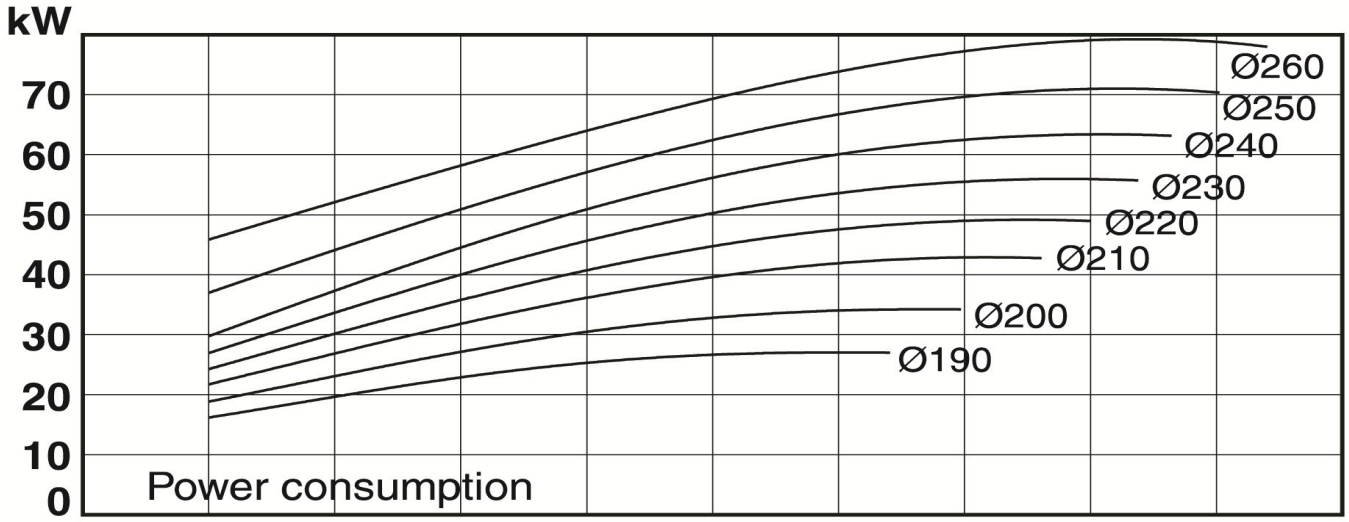
UC/350/260

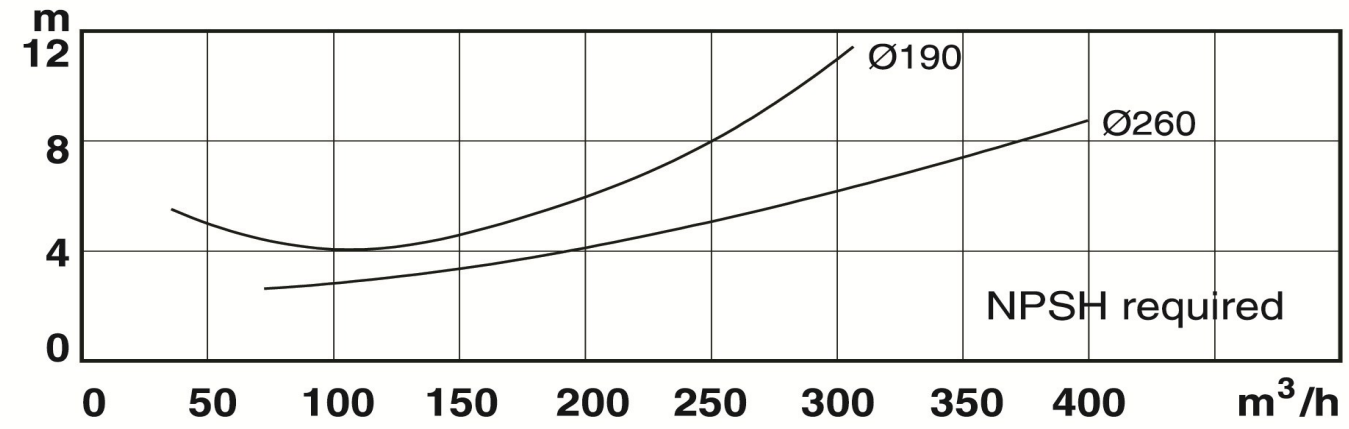
Notes:

Speed: n=2900^{-1} @ 50hz
Impeller: 190 mm minimum / 260 mm maximum
Pump Inlet: NW 150
Pump Outlet: NW 100

Performance data refer to water at 20°C P
Permissible tolerances ±5%







Notes:

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Speed: n=1450^{-1} @ 50hz
Impeller: 250 mm minimum / 420 mm maximum
Pump Inlet: NW 250
Pump Outlet: NW 200

Performance data refer to water at 20°C P
Permissible tolerances ±5%

Contact Factory

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UC

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