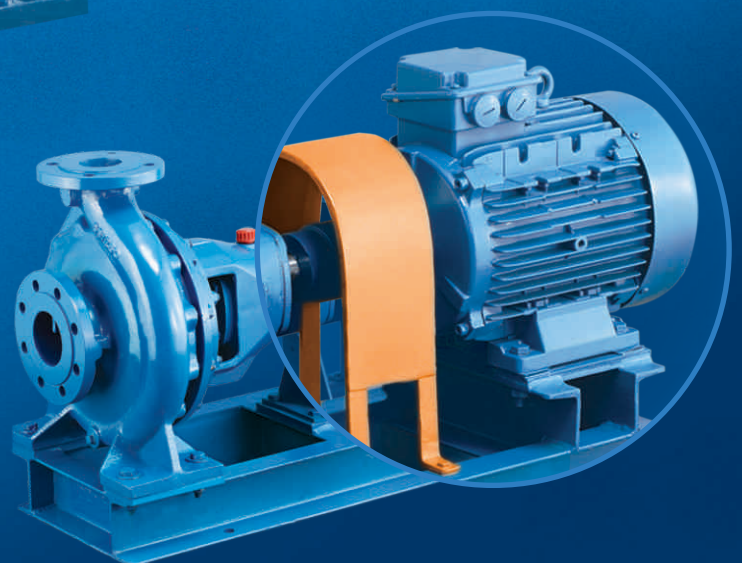
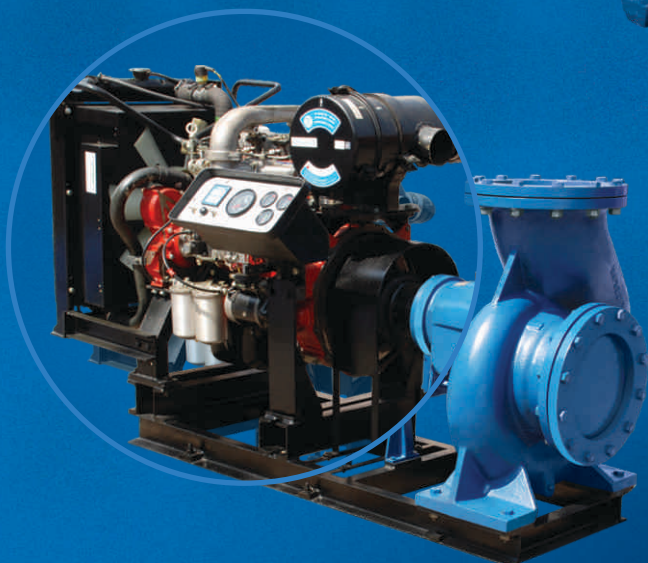


End Suction Centrifugal Pumps

EC SERIES





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 in-house 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 2300 varieties of perfectly engineered pumps and motors and sells its products in numerous countries spread across 6 continents.

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

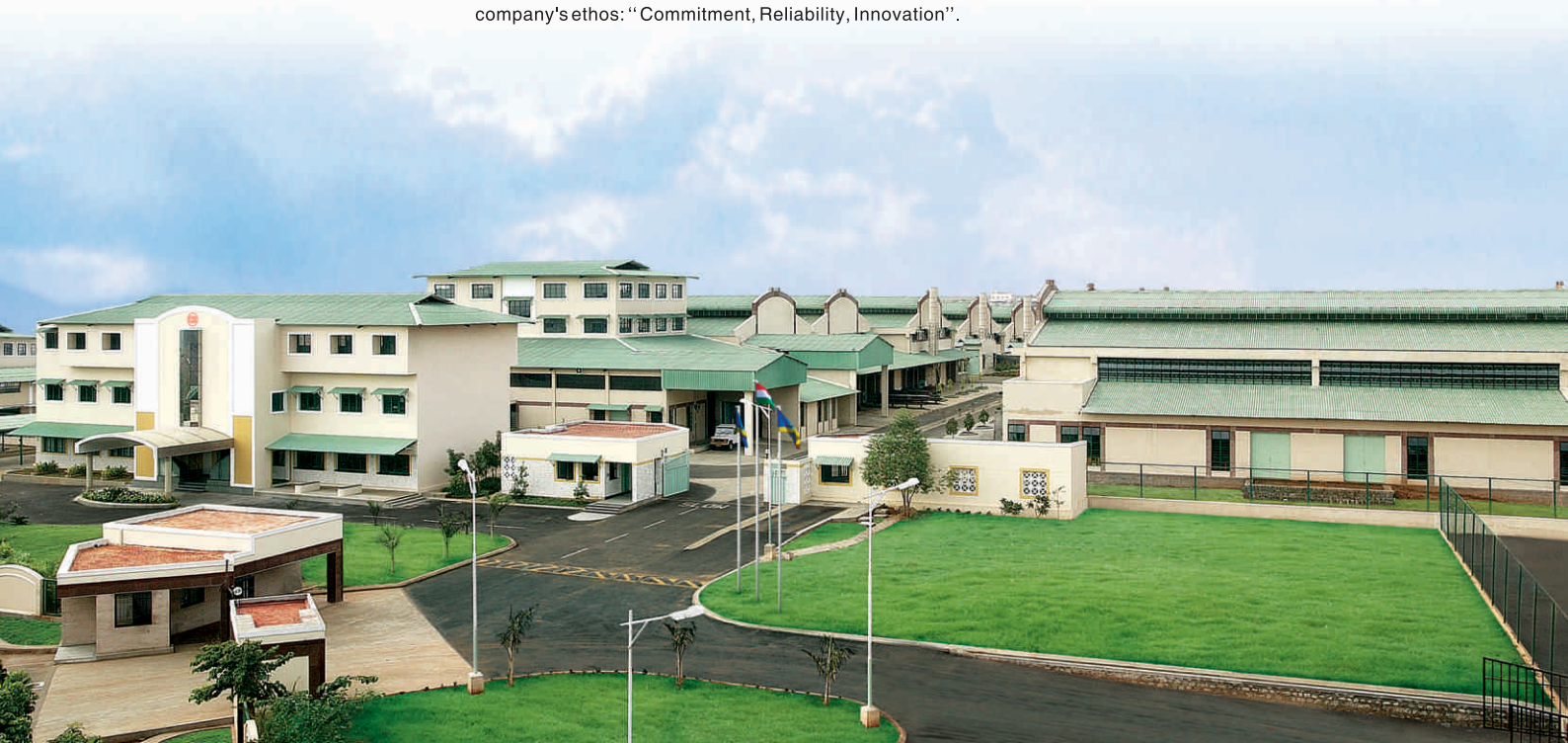
the few pioneers in the world to produce 100% stainless steel submersible pumps. Having achieved a record production capacity of over 2 million pumps per annum, today C.R.I. is rubbing its shoulders with the best brands in the world, with advanced technology and safety standards as its hallmarks.

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 high potential in-house R&D recognised by the ministry of science and technology, Govt. of India - all within its own covered area of 300,000 square metres. The production environment is accredited with ISO 9001, ISO 14001 & OHSAS 18001 certifications and the products are CE, UR/UL, IEC, TSE & ISI certified. The R&D team always stays in tune with the changing scenario and seldom fails in coming up with outstanding solutions every time.

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. PUMPS
Pumping trust. Worldwide.

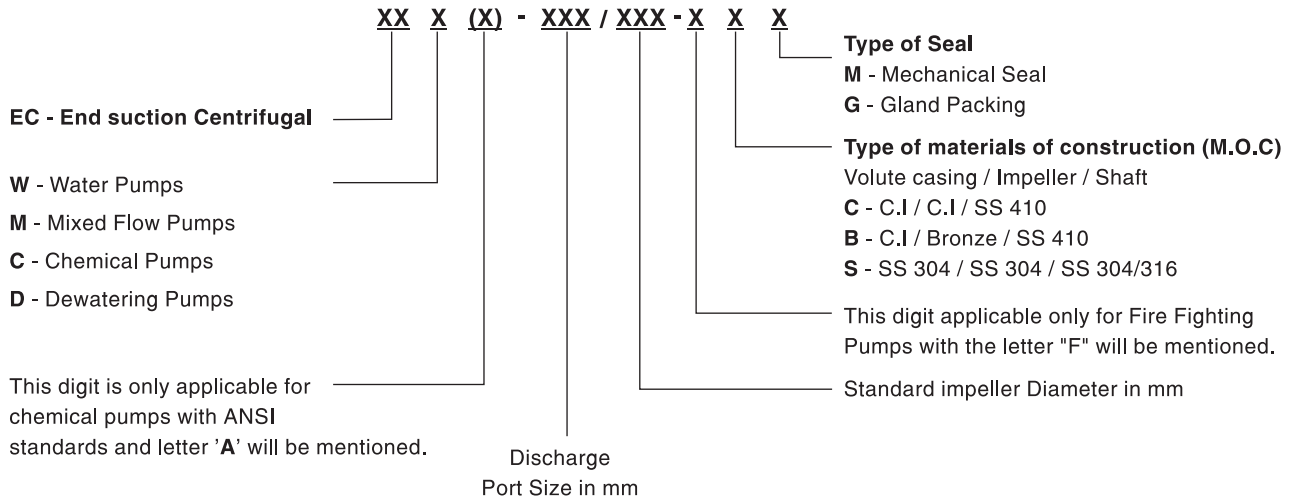
Vision, Mission and Values

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**.

GENERAL INFORMATION - ECW SERIES

MODEL IDENTIFICATION CODE



General Notes :

- Performance curves are as per specific gravity and viscosity of water.
- Curve tolerance according to ISO 9906 : 2012 Table 8 - 2B.
- For Safety 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.

C O N T E N T S

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ECW Series	
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GENERAL INFORMATION - ECW SERIES

End Suction Centrifugal Pumps

CONSTRUCTION

C.R.I. End suction pumps are single stage centrifugal, non-self priming, volute type pumps with top centre line delivery. Pumps volute chamber and impellers are carefully designed to give the best possible hydraulic and suction lift characteristics.

Most modern and highly sophisticated machinery and technology are employed in the manufacture of these pumps using quality raw material, dynamically balanced impellers, seal and bearings to ensure long life.



FEATURES

- Designed to allow interchangeability of their component between all individual pump sizes.
- Minimizes shaft deflection maximizes bearing and mechanical seal life.
- Heavy duty bearing ensures long life.
- Back pull out design.
- Dimensions and characteristics conforming to ISO 2858 standards.
- Available both in mechanical seal and soft packed stuffing box design.

APPLICATIONS

- Water supply systems.
- Irrigation systems.
- Pressure boosting systems.
- Fire Fighting systems.
- Heating ventilation and air conditioning systems.
- Circulation and transfer of clean, chemically non-aggressive water and other liquids.
- General utility services in Industries.

GENERAL INFORMATION - ECW SERIES

END SUCTION CENTRIFUGAL PUMPS

LIMITATIONS

Outlet size range	: DN32 to DN150mm
Flow range	: Upto 600 m ³ /h
Total Head range	: Upto 160m
Max. Operating temperature	: 140°C
Max. working pressure	: 16 bar

MATERIALS OF CONSTRUCTION

Pump Parts	Type - C	Type - B	Type - S
Pump casing	Cast Iron	Cast Iron	CF 8
Impeller	Cast Iron	Bronze - LTB2	CF 8
Shaft	SS 410	SS 410	SS 304 / 316
Sleeve	SS 410	SS 410	SS 410

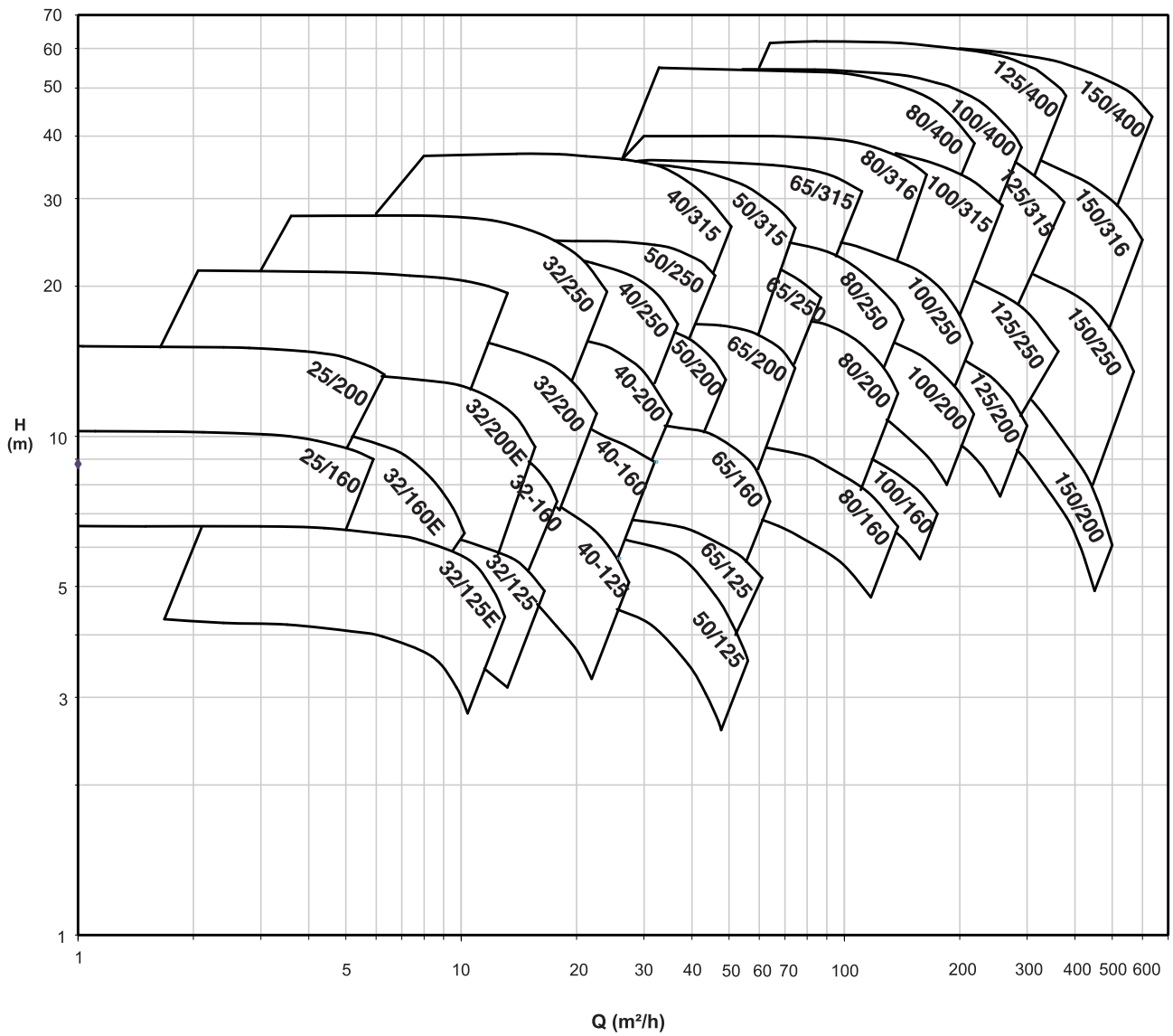
* On request we can supply.

Shaft	SS 316
Sleeve	EN8 / SS 316 / SS 304
Wear Ring	Bronze - LTB4

GENERAL INFORMATION - ECW SERIES

GROUP PERFORMANCE CURVES

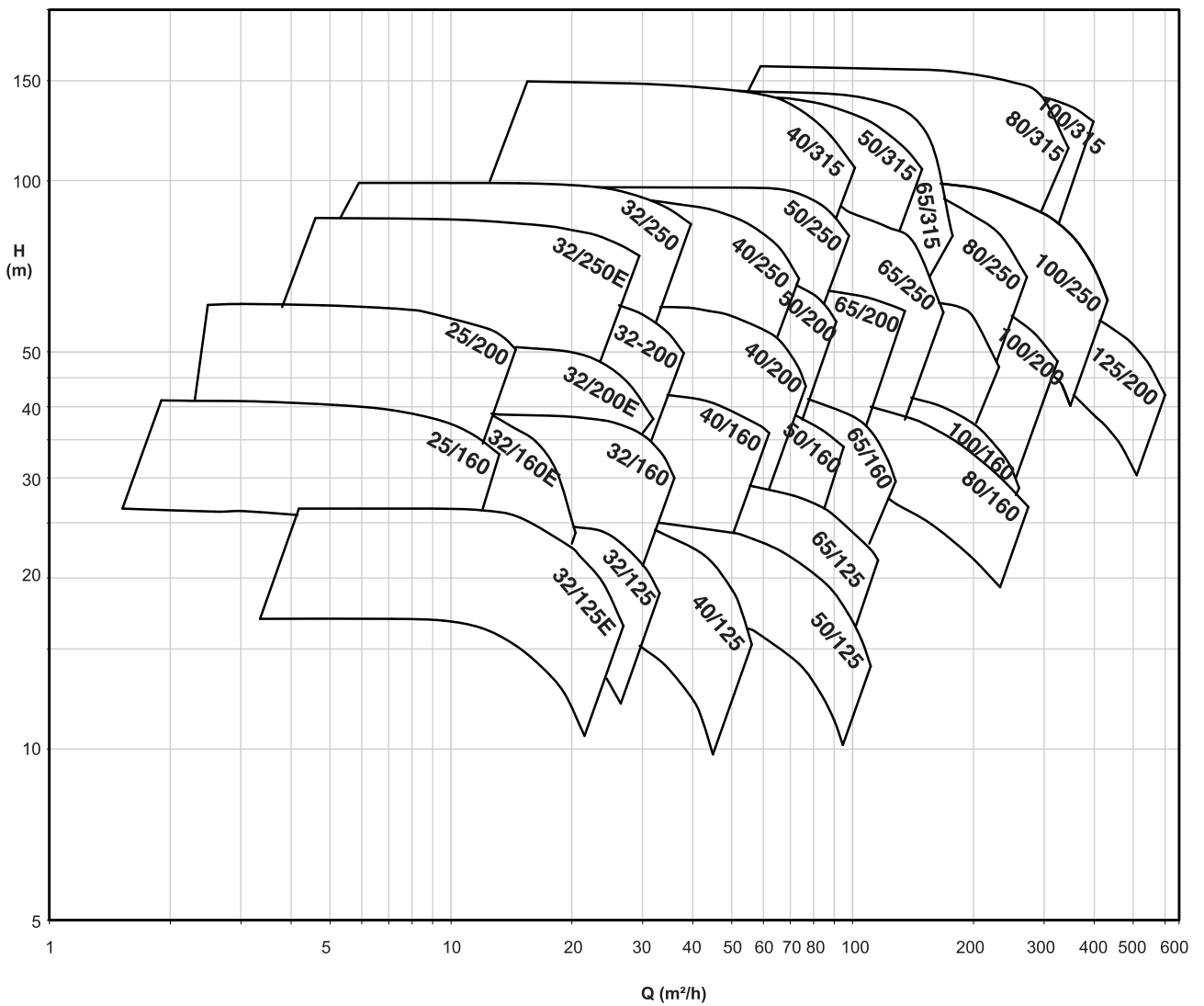
Speed - 1450 rpm



GENERAL INFORMATION - ECW SERIES

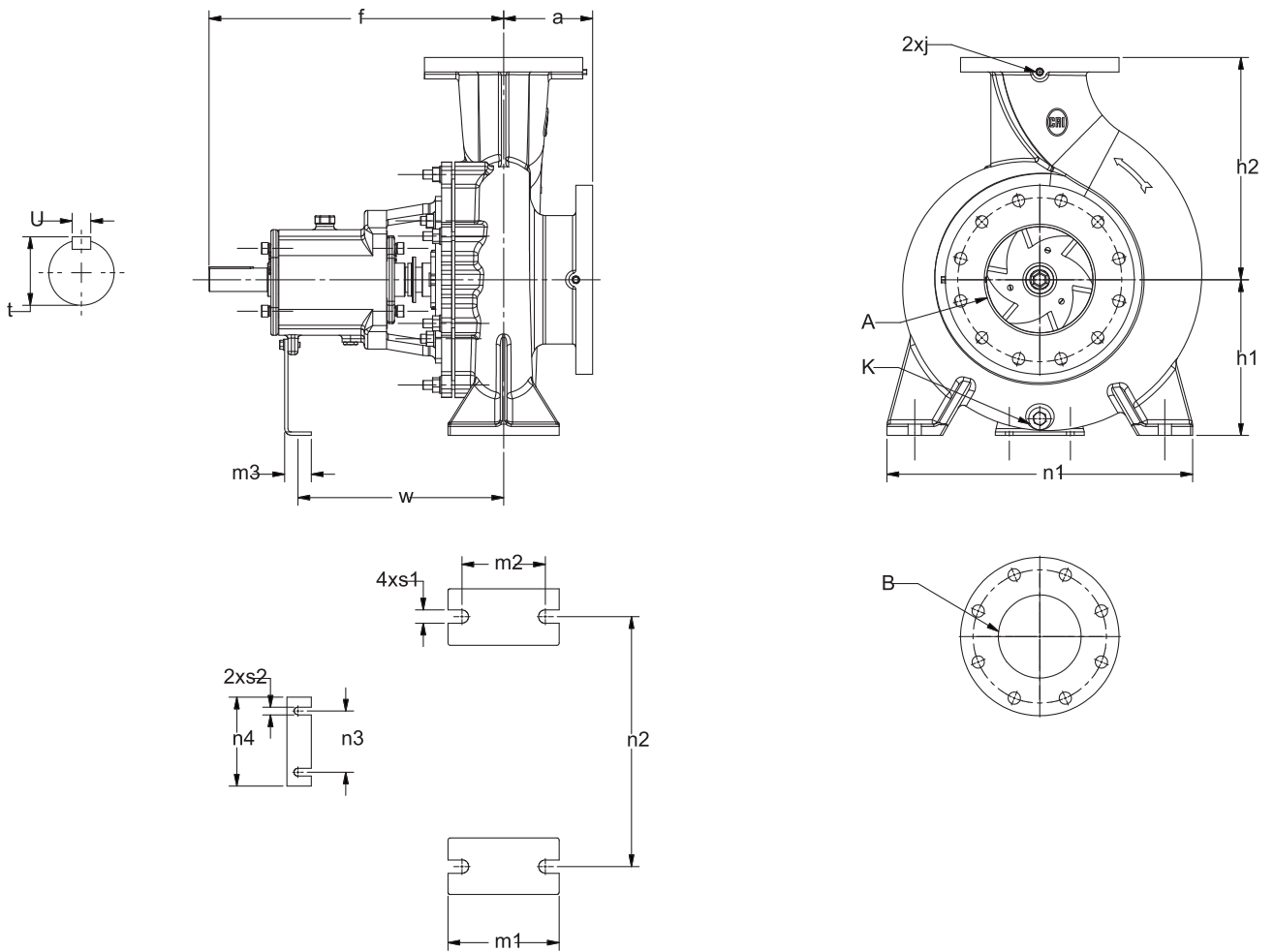
GROUP PERFORMANCE CURVES

Speed - 2900 rpm



GENERAL INFORMATION - ECW SERIES

BARE 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.

GENERAL INFORMATION - ECW SERIES

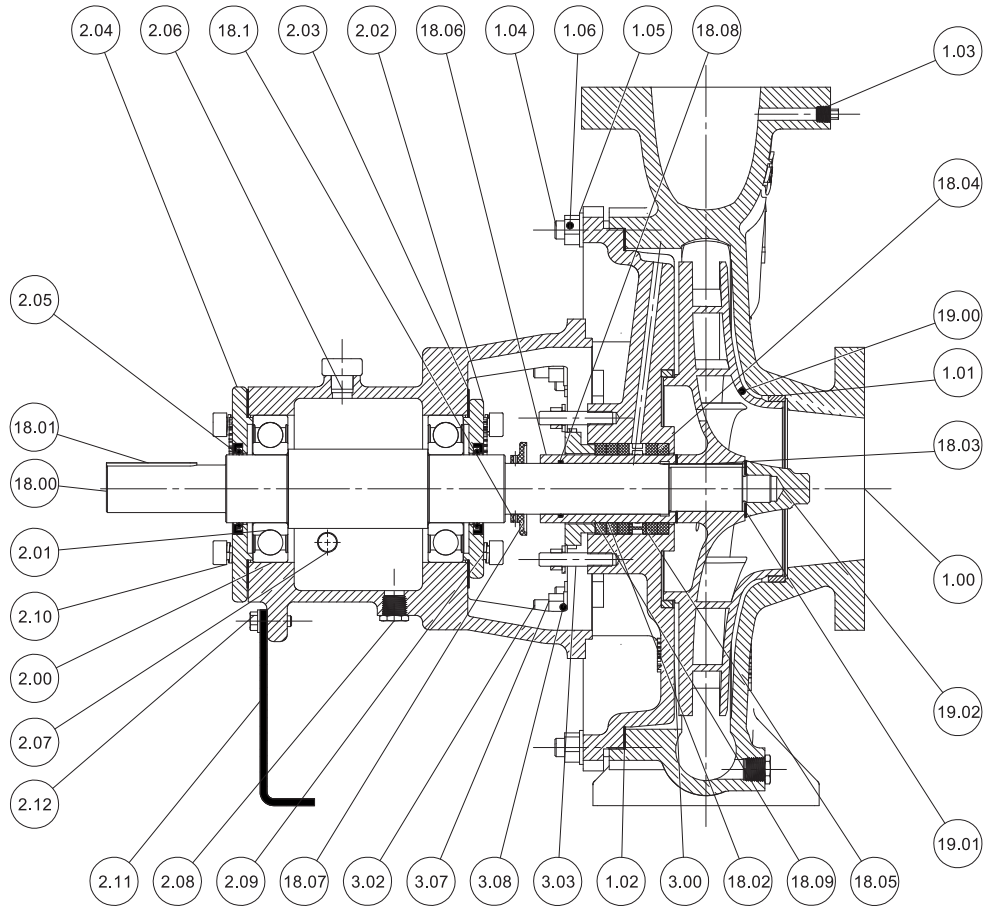
OVERALL DIMENSIONS

PUMP SIZE	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	8	80	360	112	140	G1/8"	G1/4"	100	70	48	50	190	140	110	160	14	14	260	50	24	8	25.6	100	28	
32/125	50	32	11	80	360	112	140	G1/8"	G1/4"	100	70	48	50	190	140	110	160	14	14	260	50	24	8	25.6	100	28	
40/125	65	40	14	80	360	112	140	G1/8"	G1/4"	100	70	48	50	210	160	110	160	14	14	260	50	24	8	25.6	100	30	
50/125	65	50	16	100	360	132	160	G1/8"	G1/4"	100	70	48	50	240	190	110	160	14	14	260	50	24	8	25.6	100	32	
65/125	80	65	11	100	360	160	180	G1/8"	G1/4"	125	95	48	65	280	212	110	160	14	14	260	50	24	8	25.6	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	25.6	100	32	
32/160	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	25.6	100	34	
32/160E	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	25.6	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	25.6	100	35	
50/160	65	50	18	100	360	160	180	G1/8"	G1/4"	100	70	48	50	265	212	110	160	14	14	260	50	24	8	25.6	100	37	
65/160	80	65	23	100	360	160	200	G1/8"	G1/4"	125	95	48	65	280	212	110	160	14	14	260	50	24	8	25.6	100	35	
80/160	100	80	32	125	360	180	225	G1/4"	G3/8"	125	95	48	65	320	250	110	160	14	14	260	50	24	8	25.6	140	41	
25/200	40	25	4	80	360	160	180	G1/8"	G1/4"	100	70	48	50	240	190	110	160	14	14	260	50	24	8	25.6	100	37	
32/200E	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	25.6	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	25.6	100	39	
40/200	65	40	5	100	360	160	180	G1/4"	G3/8"	100	70	48	50	265	212	110	160	14	14	260	50	24	8	25.6	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	25.6	100	44	
65/200	80	65	23	100	360	180	225	G1/4"	G3/8"	125	95	48	65	320	250	110	160	14	14	260	50	24	8	25.6	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	25.6	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	25.6	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	25.6	100	57	
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100/160	125	100	16	125	470	200	280	G1/4"	G3/8"	160	120	48	80	360	280	110	160	19	14	296	102	32	10	34	140	69	
80/200	100	80	24	125	470	180	250	G1/4"	G3/8"	125	95	48	65	345	280	110	160	19	14	296	102	32	10	34	140	72	
100/200	125	100	30	125	470	200	280	G1/4"	G3/8"	160	120	48	80	360	280	110	160	19	14	296	102	32	10	34	140	81	
125/200	150	125	38	140	470	250	315	G1/4"	G1/2"	160	120	48	80	400	315	110	160	19	14	296	102	32	10	34	140	93	
150/200	200	125	52	160	470	280	400	G1/4"	G1/2"	200	150	48	100	550	450	110	160	24	14	296	102	32	10	34	140	112	
65/250	80	65	8	100	470	200	250	G1/4"	G3/8"	160	120	48	80	360	280	110	160	19	14	296	102	32	10	34	140	79	
80/250	100	80	10	125	470	200	280	G1/4"	G3/8"	160	120	48	80	400	315	110	160	19	14	296	102	32	10	34	140	86	
100/250	125	100	15	140	470	225	280	G1/4"	G1/2"	160	120	48	80	400	315	110	160	19	14	296	102	32	10	34	140	95	
125/250	150	125	22	140	470	250	355	G1/4"	G1/2"	160	120	48	80	400	315	110	160	19	14	296	102	32	10	34	140	96	
150/250	200	150	28	160	470	280	400	G1/4"	G1/2"	200	150	48	100	500	400	110	160	24	14	296	102	32	10	34	140	120	
40/315	65	40	36	125	470	225	250	G1/4"	G1/2"	125	95	48	65	345	280	110	160	14	14	296	102	32	10	34	100	91	
50/315	65	50	26	125	470	225	280	G1/4"	G1/2"	125	95	48	65	345	280	110	160	14	14	296	102	32	10	34	100	93	
65/315	80	65	31	125	470	225	280	G1/4"	G1/2"	160	120	48	80	400	315	110	160	19	14	296	102	32	10	34	140	98	
80/315	100	80	44	125	470	250	315	G1/4"	G1/2"	160	120	48	80	400	315	110	160	19	14	296	102	32	10	34	140	105	
100/315	125	100	56	140	470	250	315	G1/4"	G1/2"	160	120	48	80	400	315	110	160	19	14	296	102	32	10	34	140	115	
125/315	150	125	35	140	530	280	355	G1/4"	G1/2"	200	150	48	100	500	400	110	160	24	14	370	110	42	12	44	140	152	
150/315	200	150	43	160	530	280	400	G1/4"	G1/2"	200	150	48	100	550	450	110	160	24	14	370	110	42	12	44	140	160	
80/400	100	80	15	125	530	280	355	G1/4"	G1/2"	200	120	48	100	435	355	110	160	24	14	370	110	42	12	44	140	162	
100/400	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	44	140	172	
125/400	150	125	33	140	530	315	400	G1/4"	G1/2"	200	150	48	100	500	400	110	160	24	14	370	110	42	12	44	140	183	
150/400	200	150	41	160	530	315	450	G1/4"	G1/2"	200	150	48	100	550	450	110	160	24	14	370	110	42	12	44	140	208	

* All dimensions are in mm.

GENERAL INFORMATION - ECW SERIES

CROSS SECTIONAL DRAWING

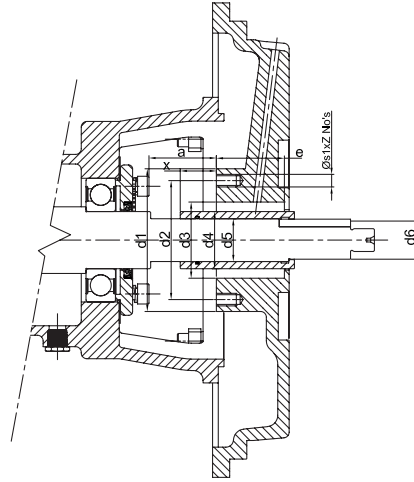


P.No	Part Name
1.00	Casing
1.01	Front Wear Ring
1.02	Gasket - Casing
1.03	Square Plug
1.04	Stud M16
1.05	Flat Washer M16
1.06	Hex Nut - M16 X 2
2.00	Bearing Frame
2.01	Deep Groove Ball Bearing
2.02	Front Cover
2.03	Gasket - Rear Cover
2.04	Rear Cover
2.05	Oil Seal
2.06	Breather Nut
2.07	Oil Level Indicator
2.08	Hex. Plug
2.09	Lock Washer
2.10	Socket Head Bolt
2.11	Support Foot
2.12	Hex. Bolt M10
3.00	Stuffing Box
3.01	Rear Wear Ring

P.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
19.01	Gasket - Impeller
19.02	Impeller Nut

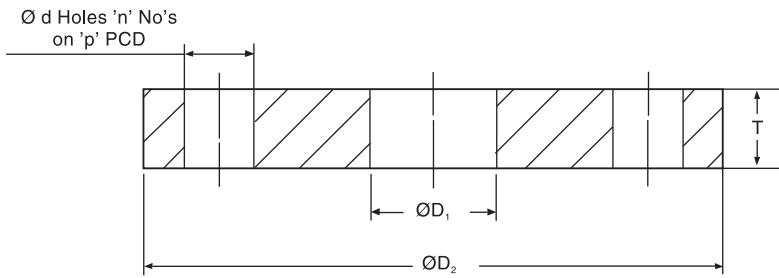
GENERAL INFORMATION - ECW SERIES

STUFFING BOX DETAILS



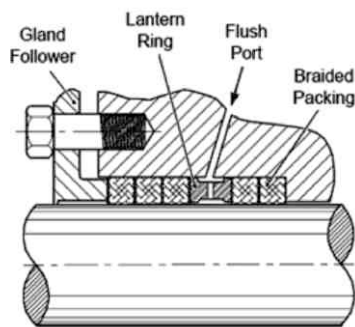
Bearing Frame Assembly	a	x	e	d1	d2	d3	d4	d5	d6	l	s1xZnos
25	40	18	60	84	70	59	35	25	20	3	4xM8
32	63	20	60	94	84	70	45	32	28	5	4xM8
42	68	35	71.5	150	116	91	60	45	40	6	4xM12

FLANGE DIMENSIONS

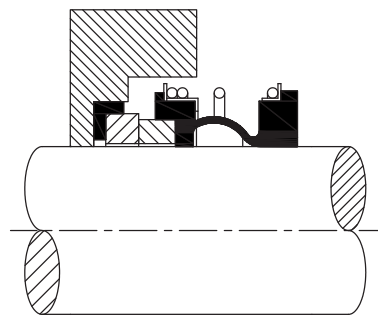


S.No	Ø D1	Ø D2	P	n	Ø d	T
1	25	115	85	4	14	16
2	32	140	100	4	18	18
3	40	150	110	4	18	19
4	50	165	125	4	18	19
5	65	185	145	4	18	20
6	80	200	160	8	18	22
7	100	220	180	8	18	24
8	125	250	210	8	18	19
9	150	285	240	8	22	26

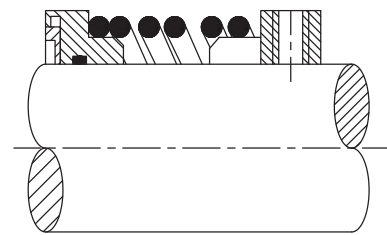
TYPES OF SEALING



Gland Packing



Bellow seal



* Cartridge seal

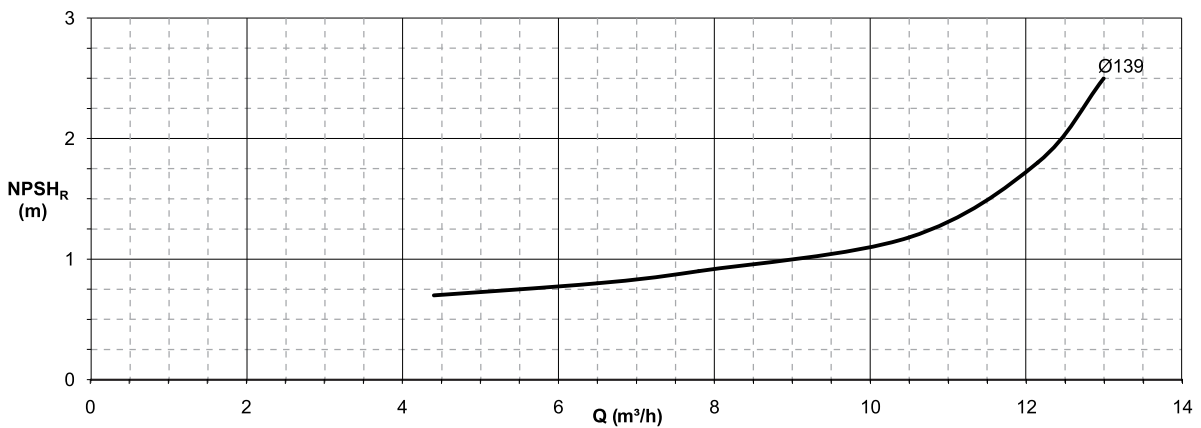
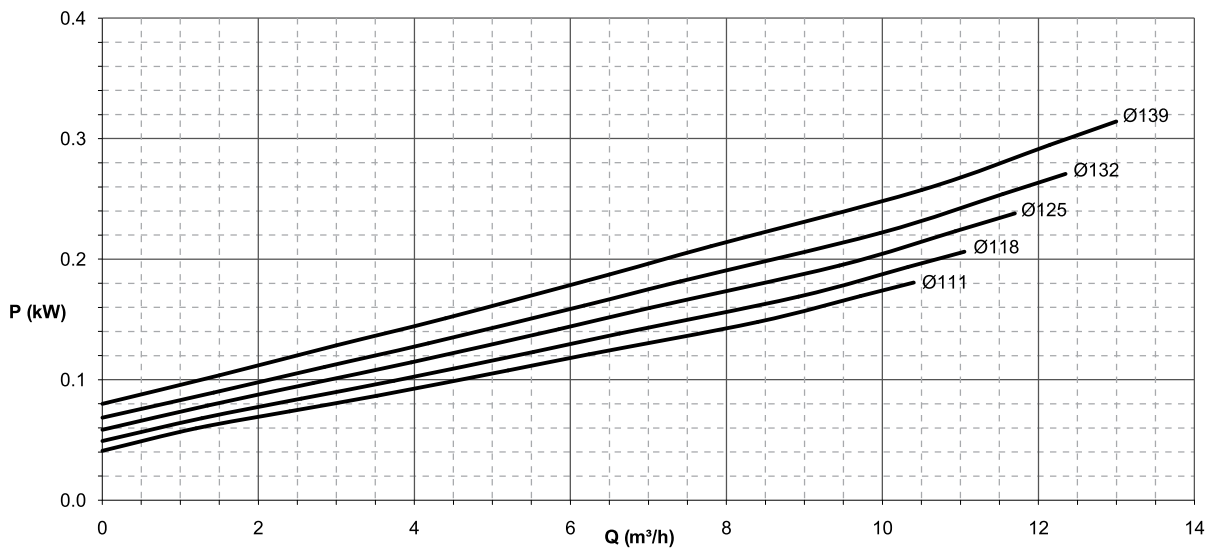
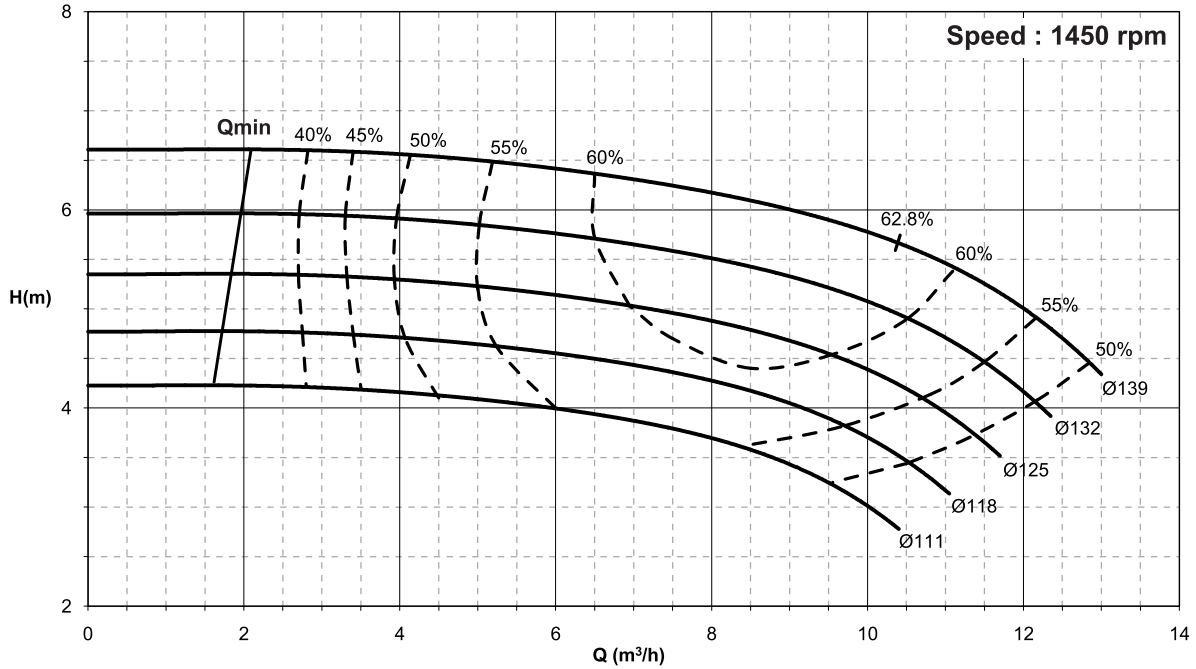
* On request



PERFORMANCE CURVE

Pump Model : ECW-32/125E

Pump Size in mm : 50 x 32

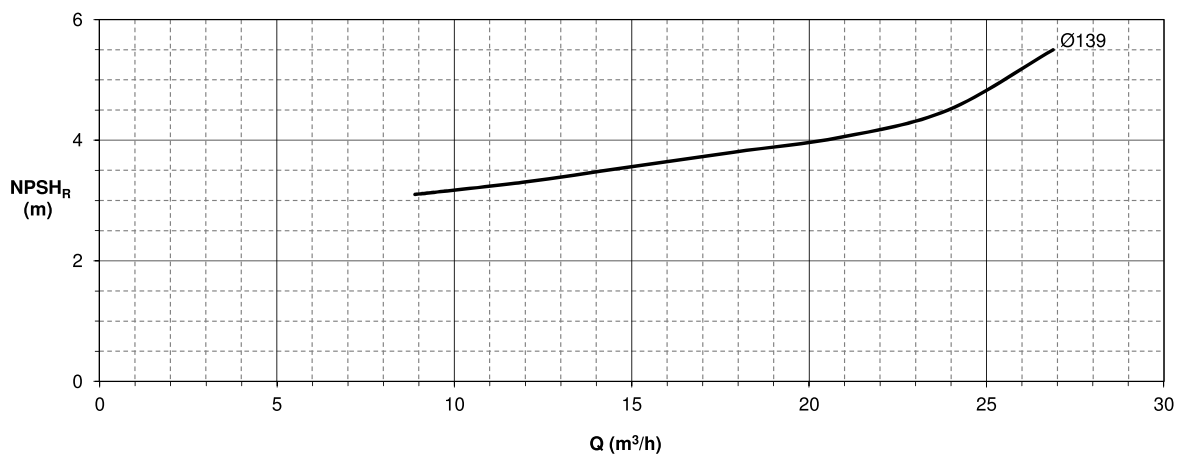
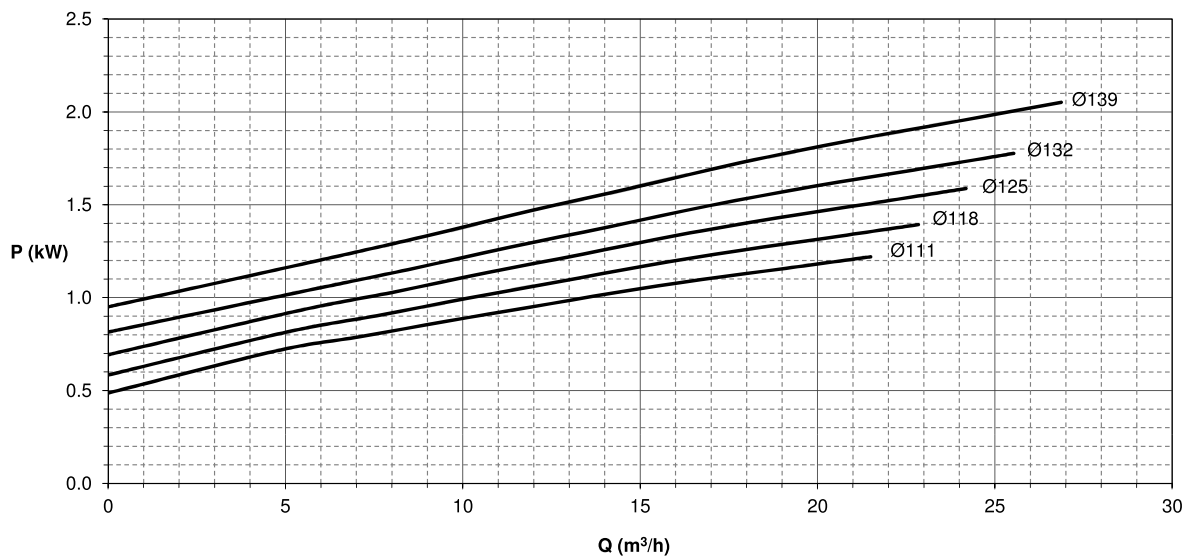
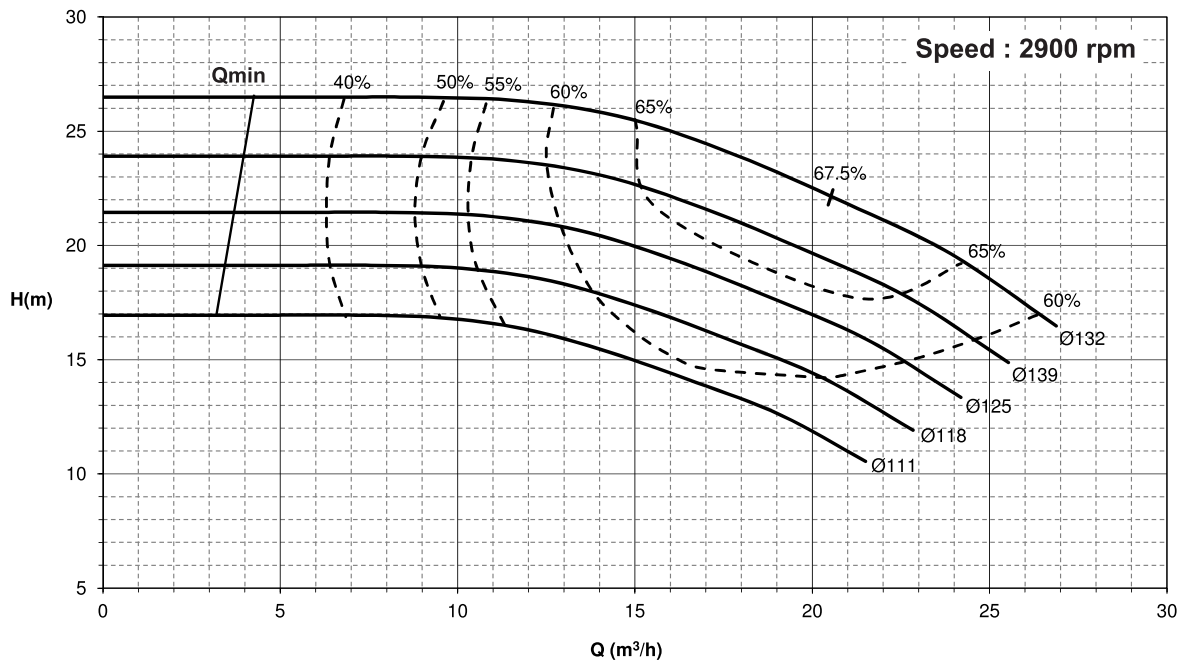




PERFORMANCE CURVE

Pump Model : **ECW-32/125E**

Pump Size in mm : **50 x 32**

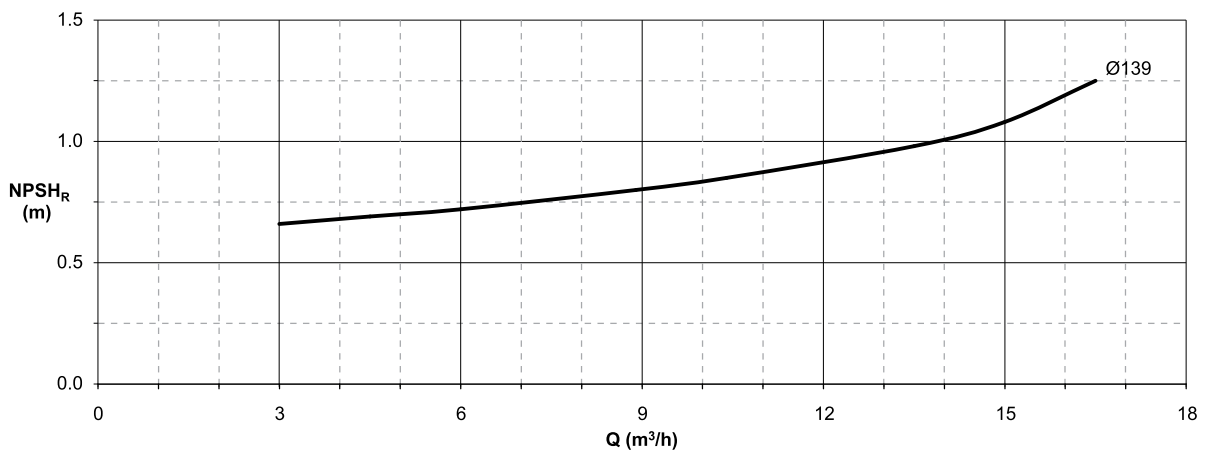
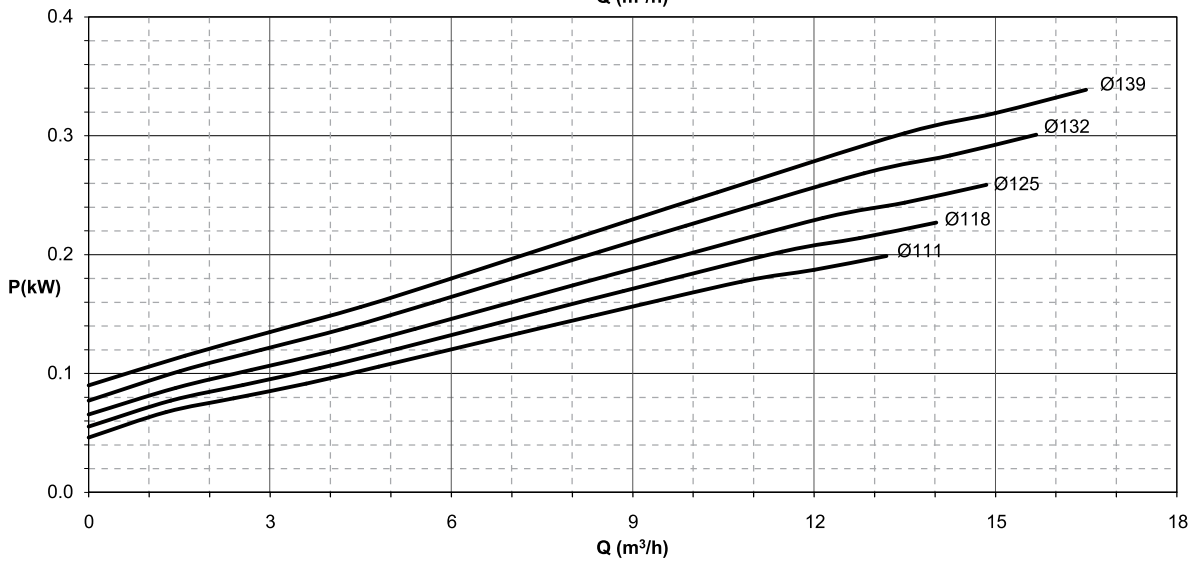
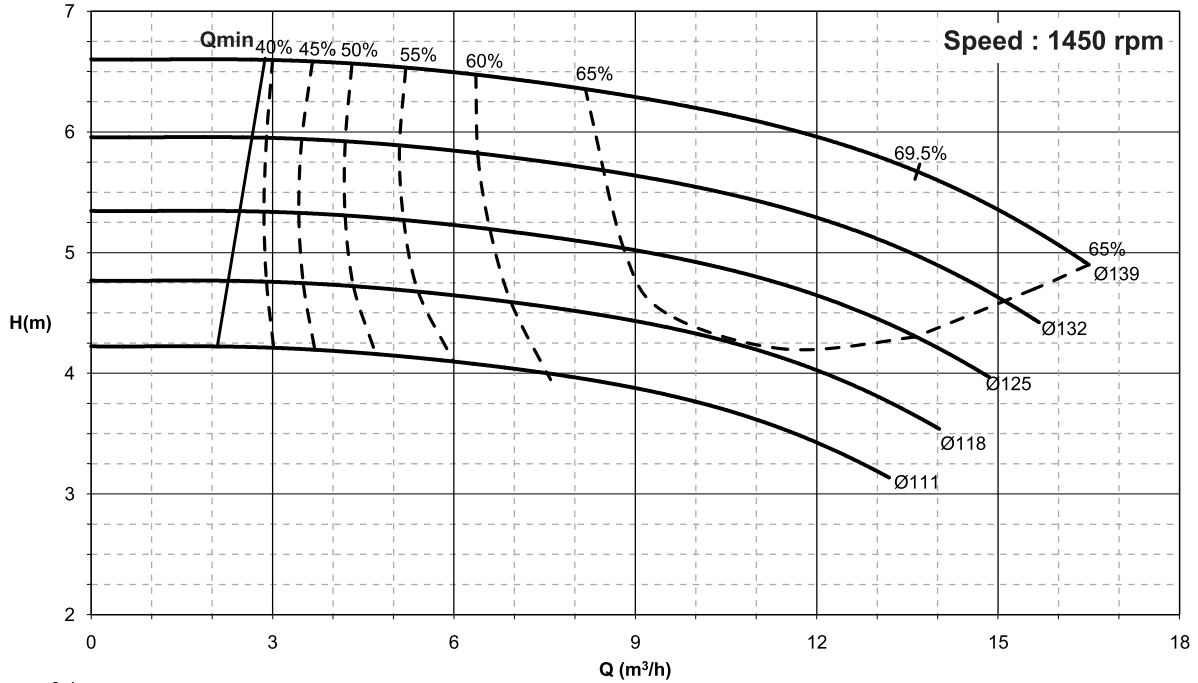




PERFORMANCE CURVE

Pump Model : ECW-32/125

Pump Size in mm : 50 x 32

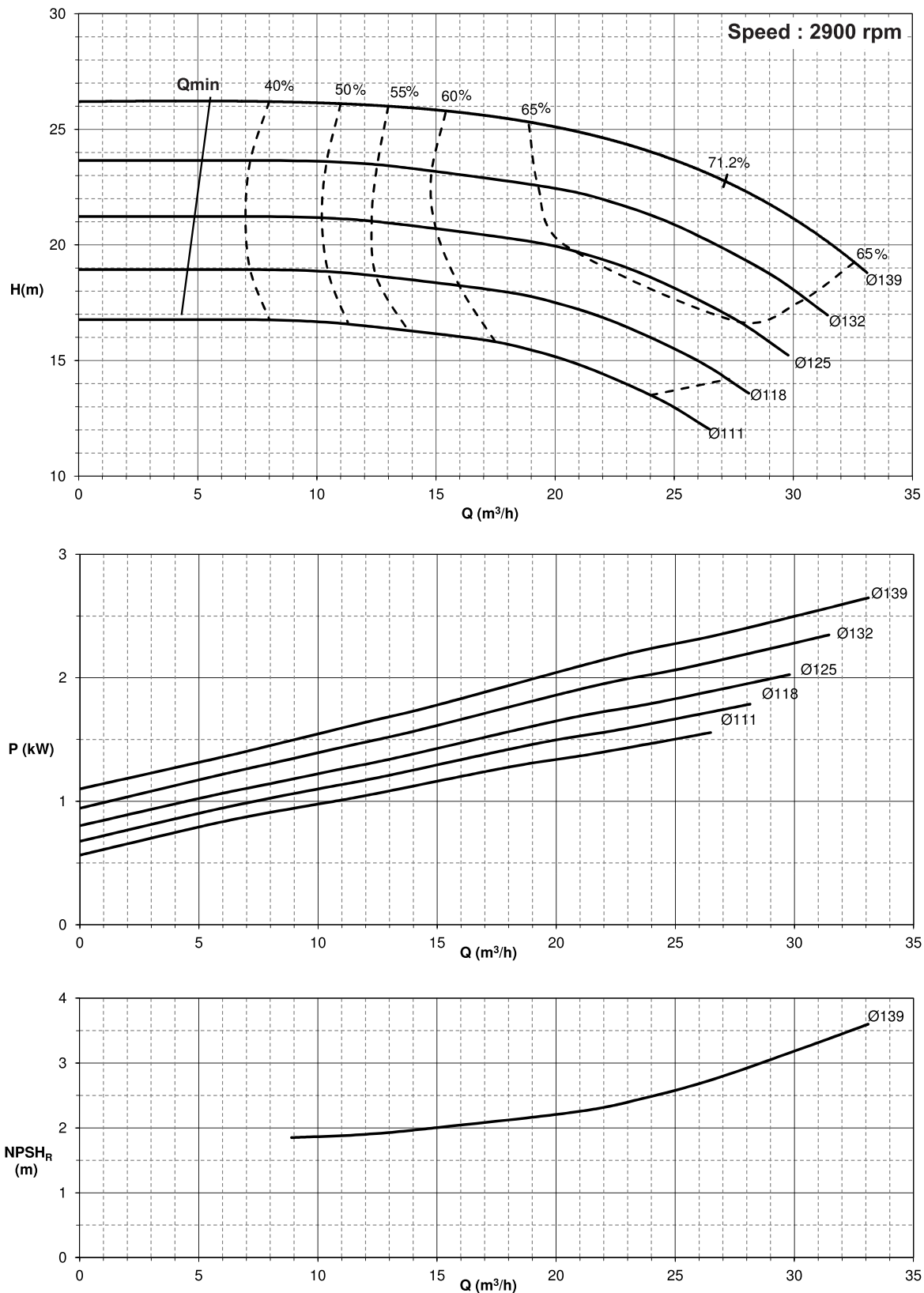




PERFORMANCE CURVE

Pump Model : **ECW-32/125**

Pump Size in mm : **50 x 32**

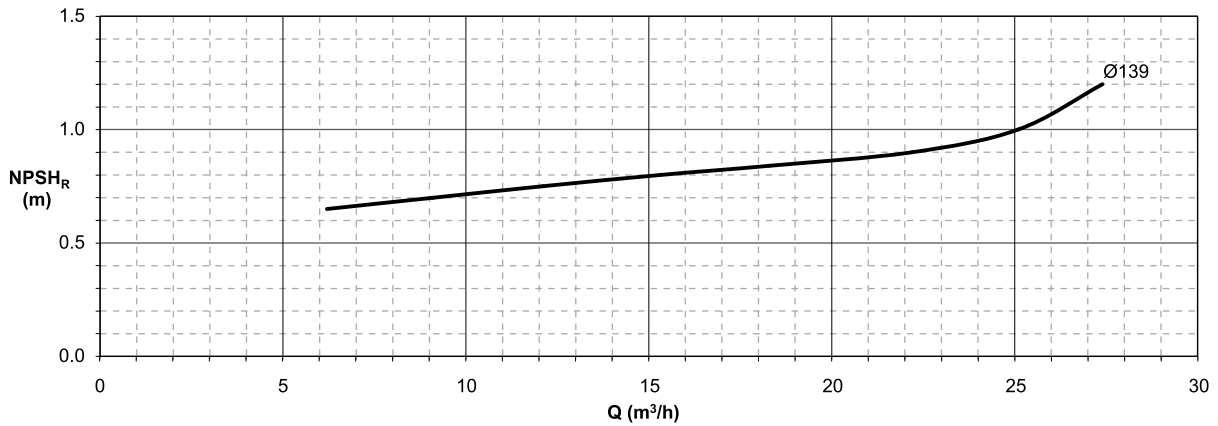
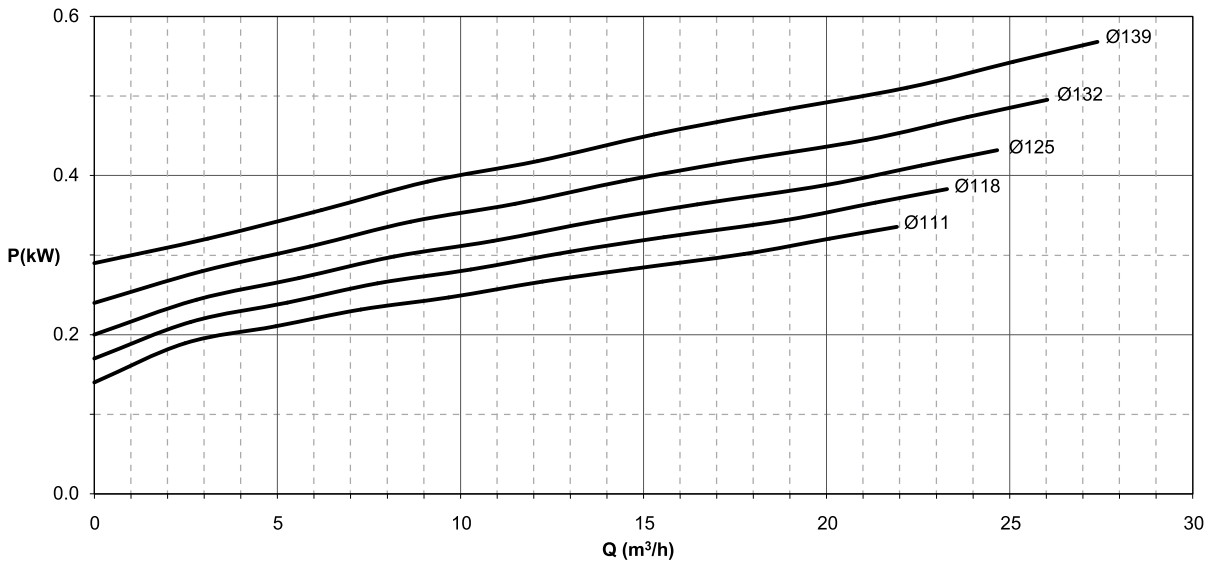
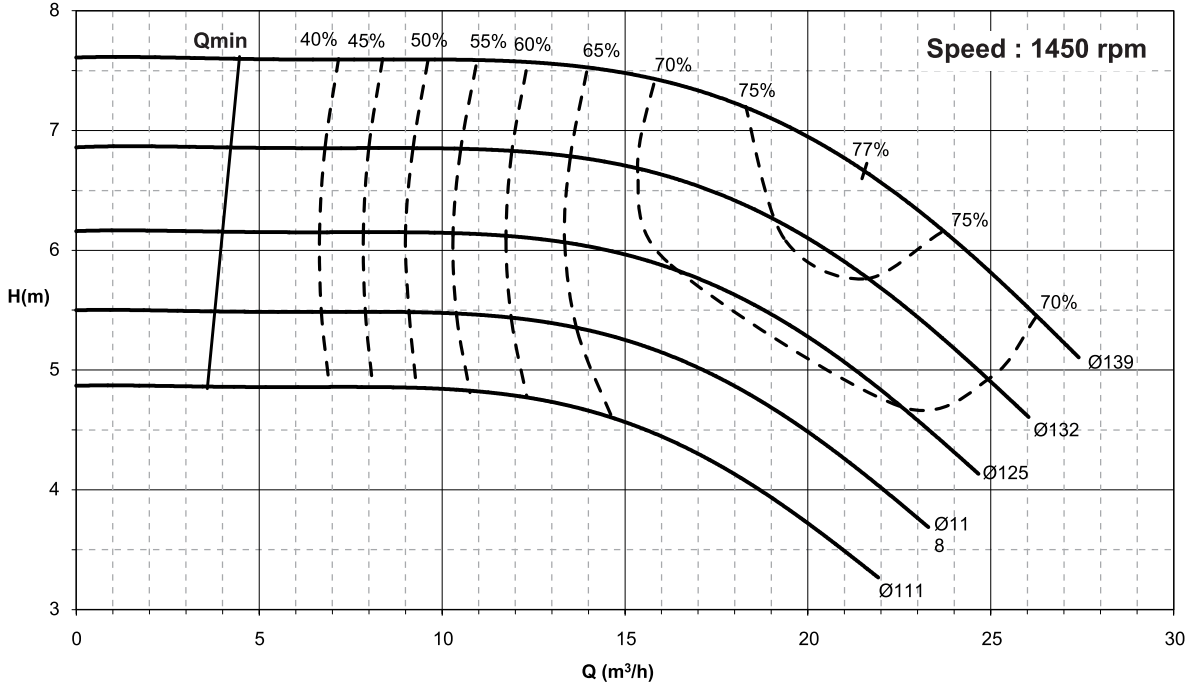




PERFORMANCE CURVE

Pump Model : ECW-40/125

Pump Size in mm : 65 x 40

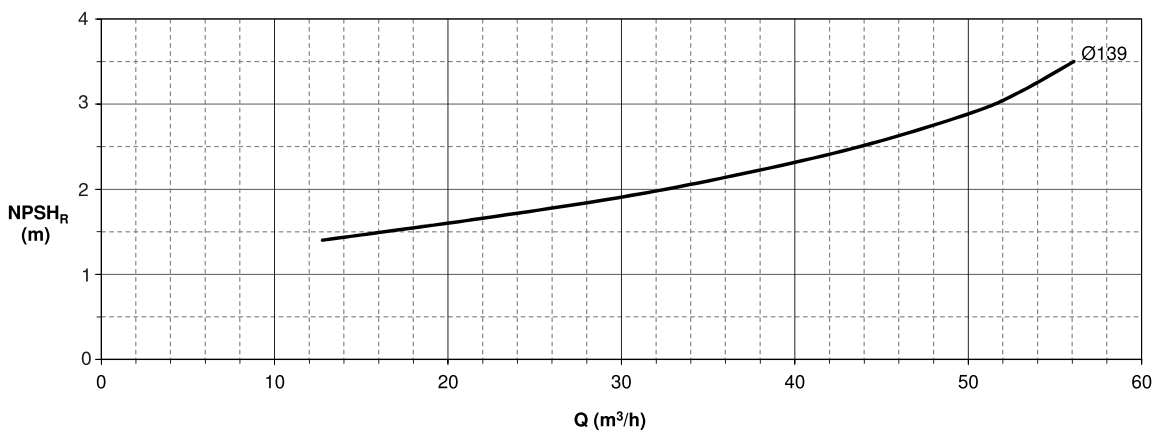
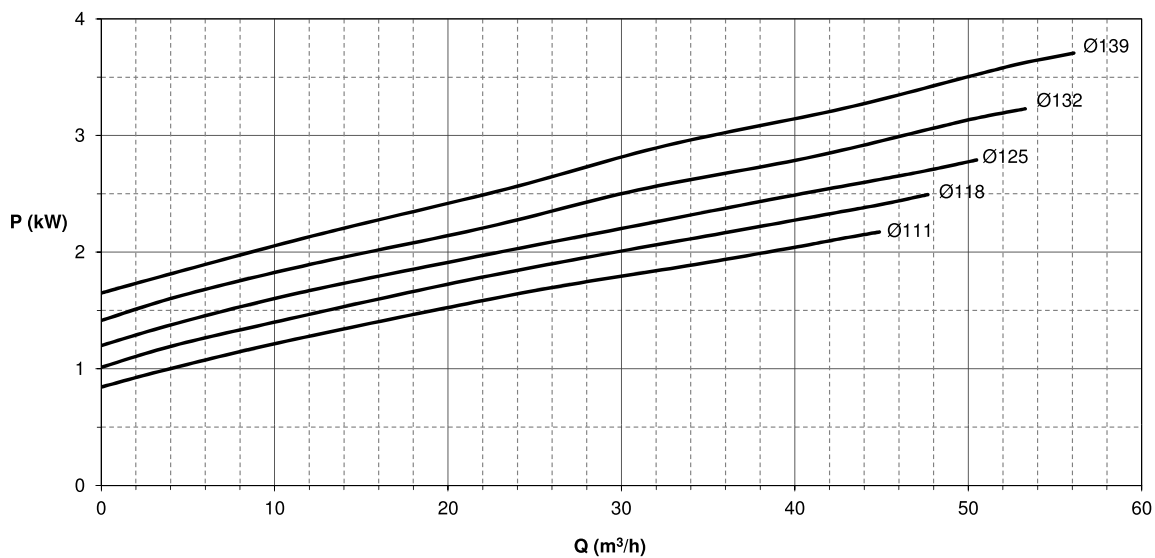
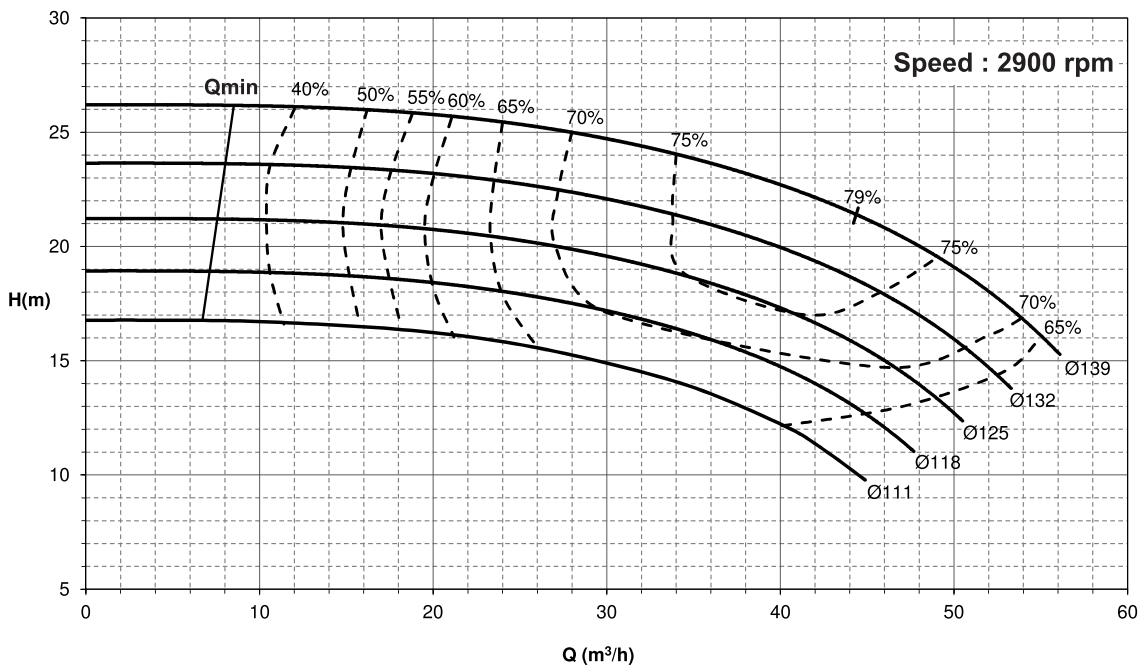




PERFORMANCE CURVE

Pump Model : **ECW-40/125**

Pump Size in mm : **65 x 40**

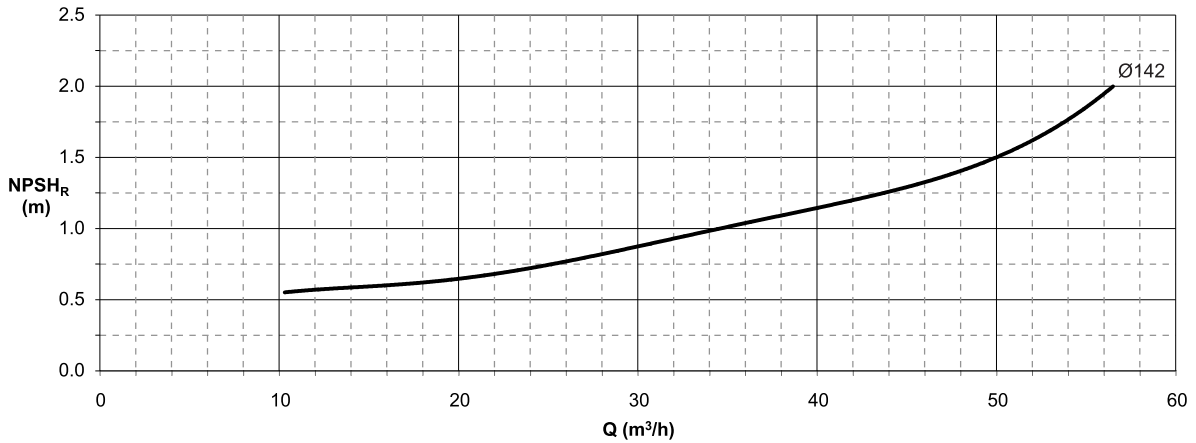
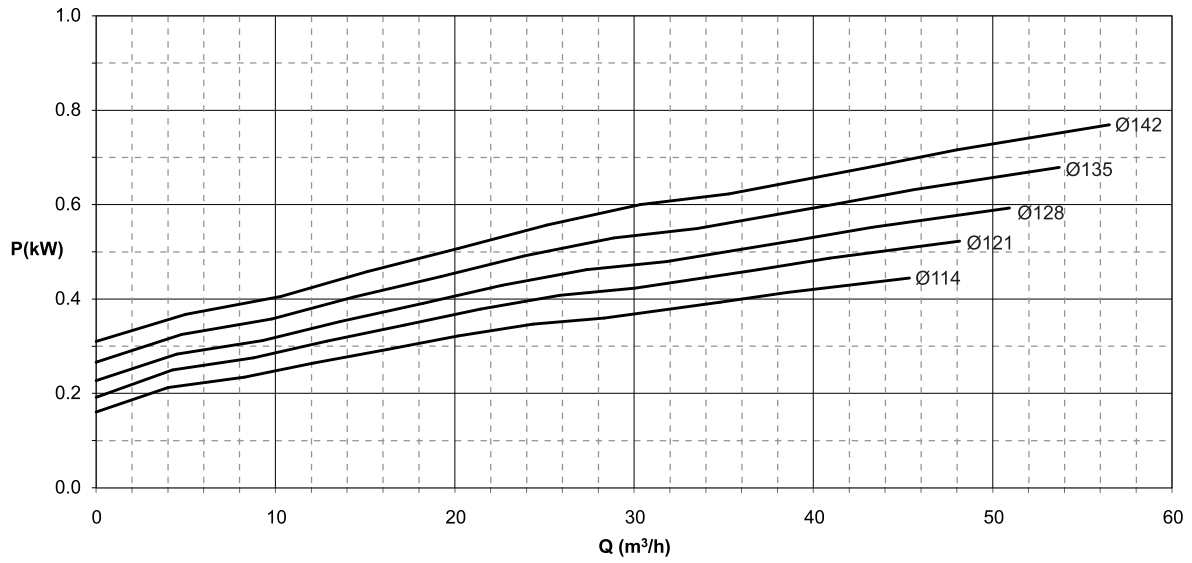
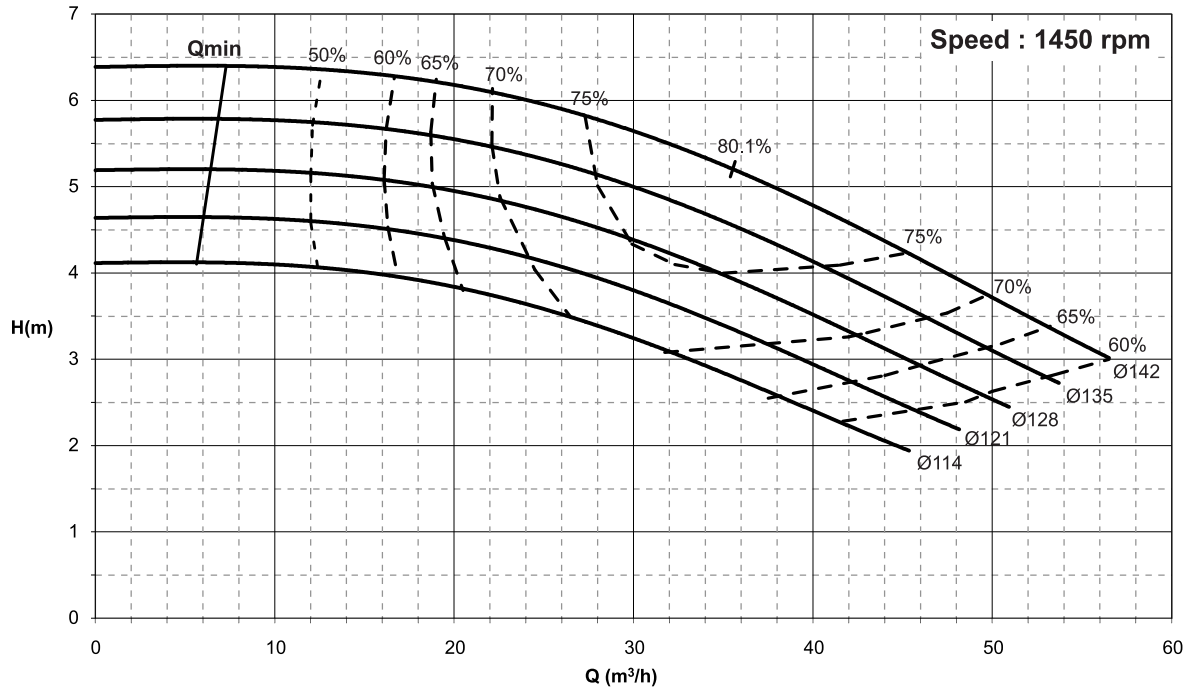




PERFORMANCE CURVE

Pump Model : ECW-50/125

Pump Size in mm : 65 x 50

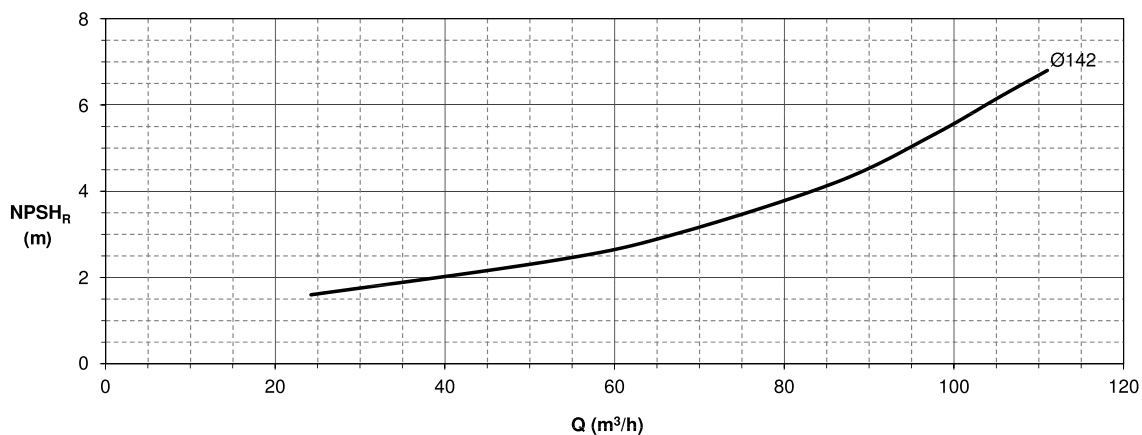
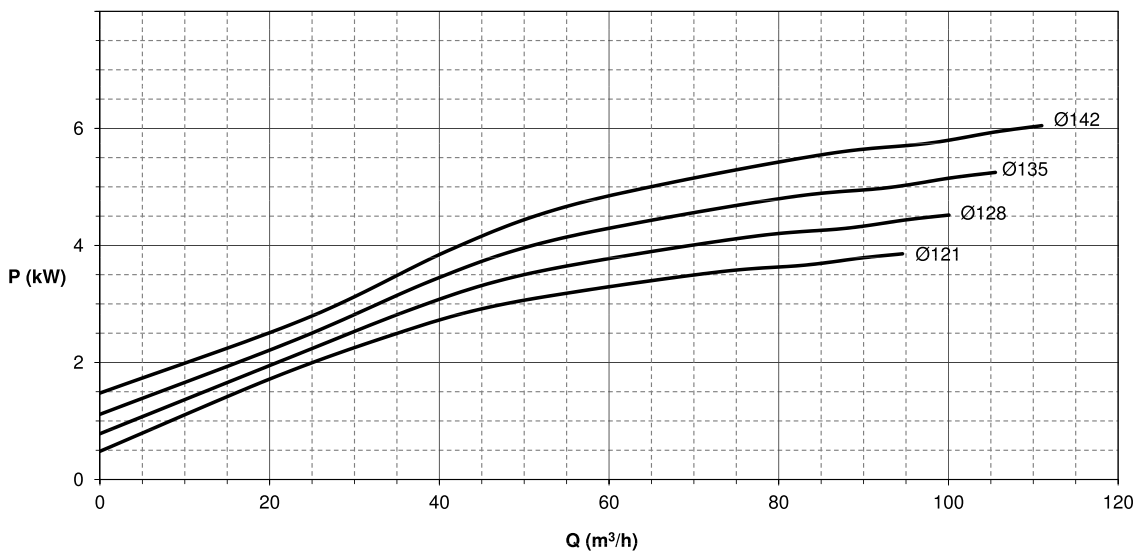
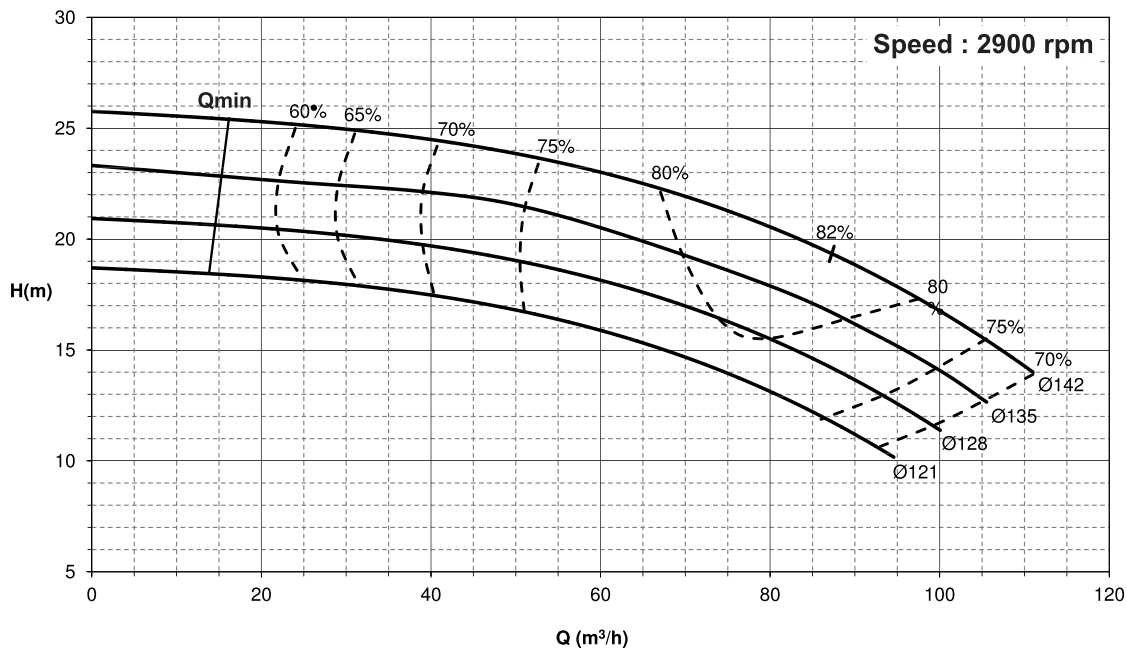




PERFORMANCE CURVE

Pump Model : **ECW-50/125**
On Request

Pump Size in mm : **65 x 50**

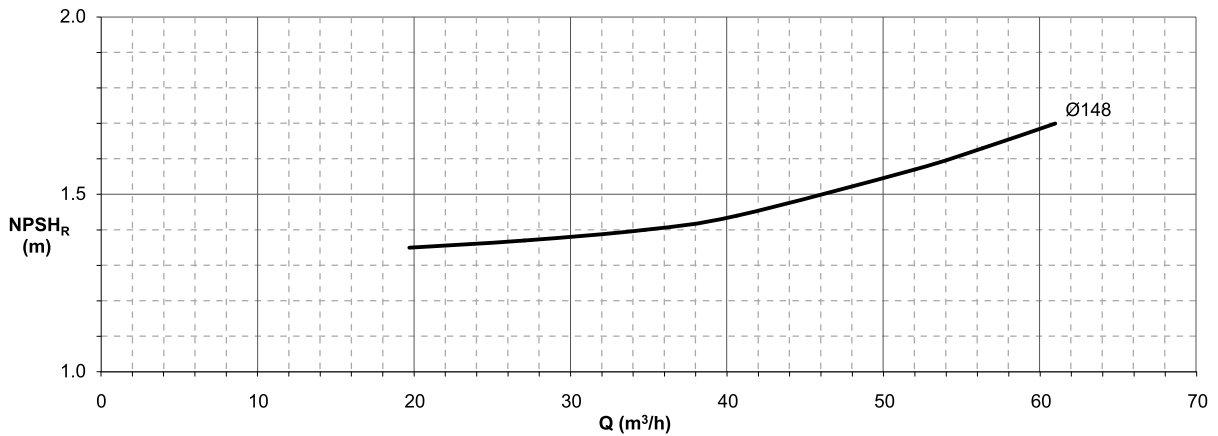
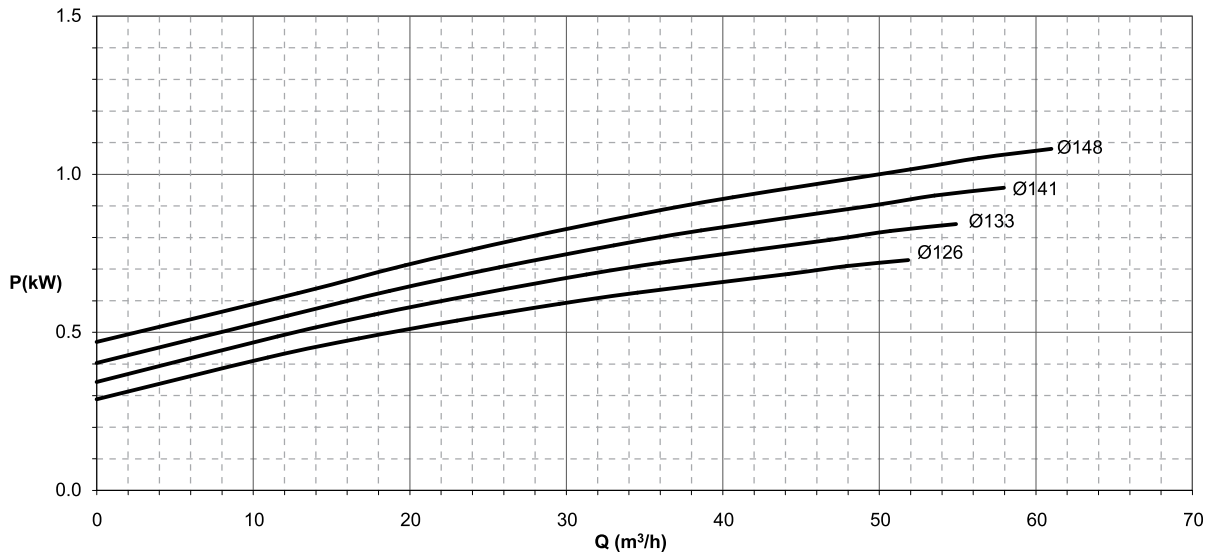
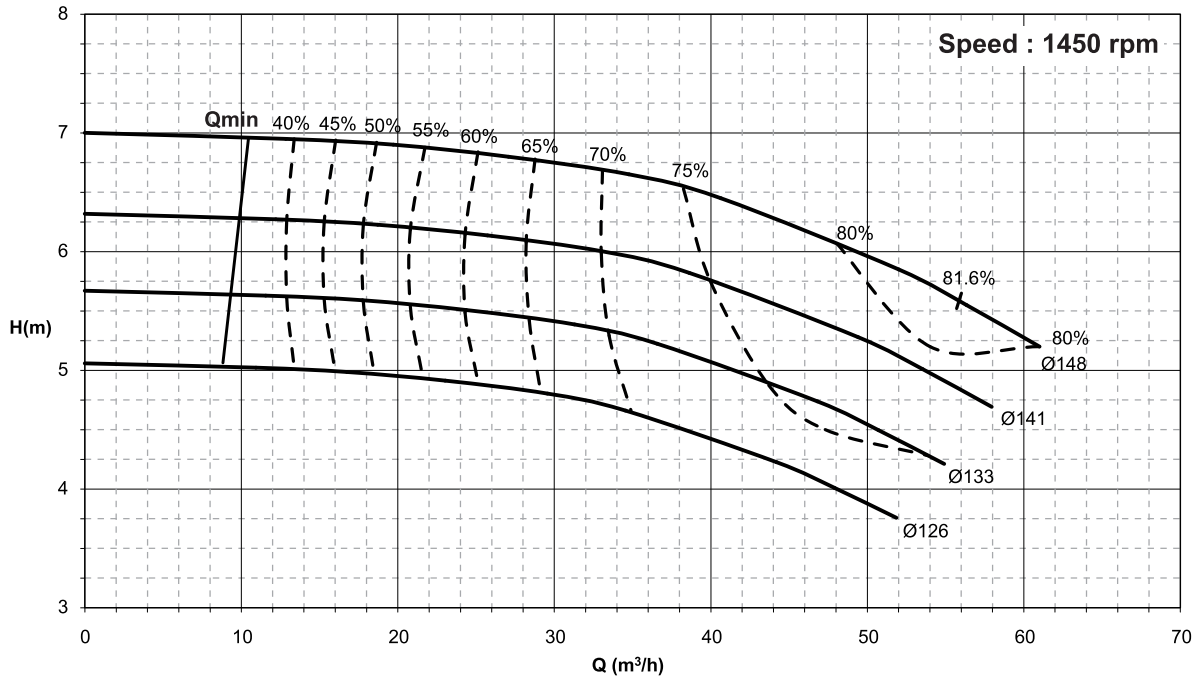




PERFORMANCE CURVE

Pump Model : ECW-65/125

Pump Size in mm : 80 x 65

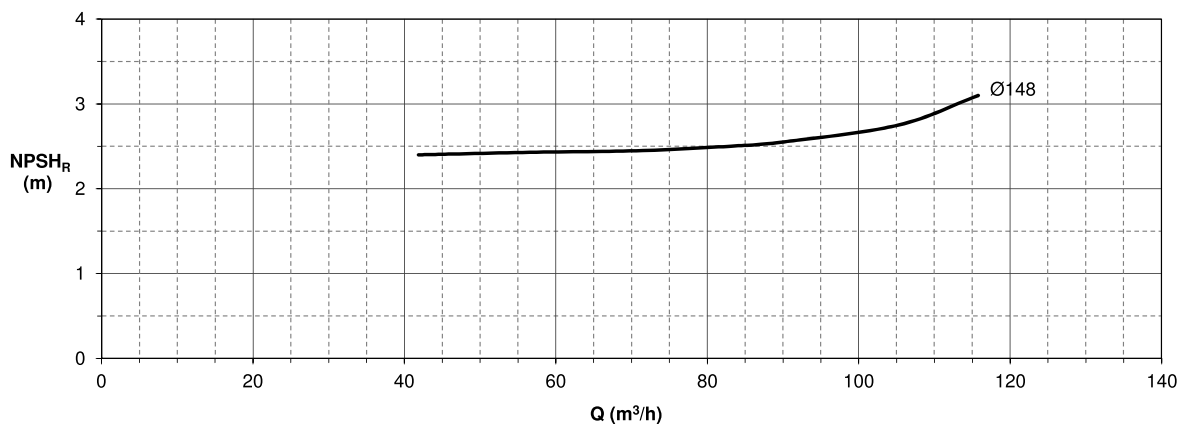
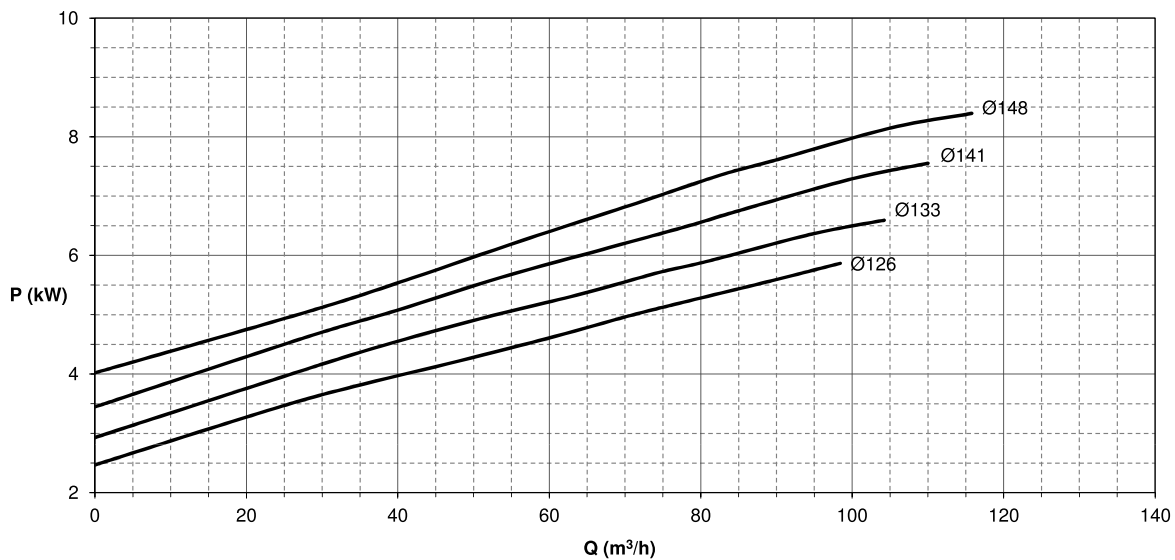
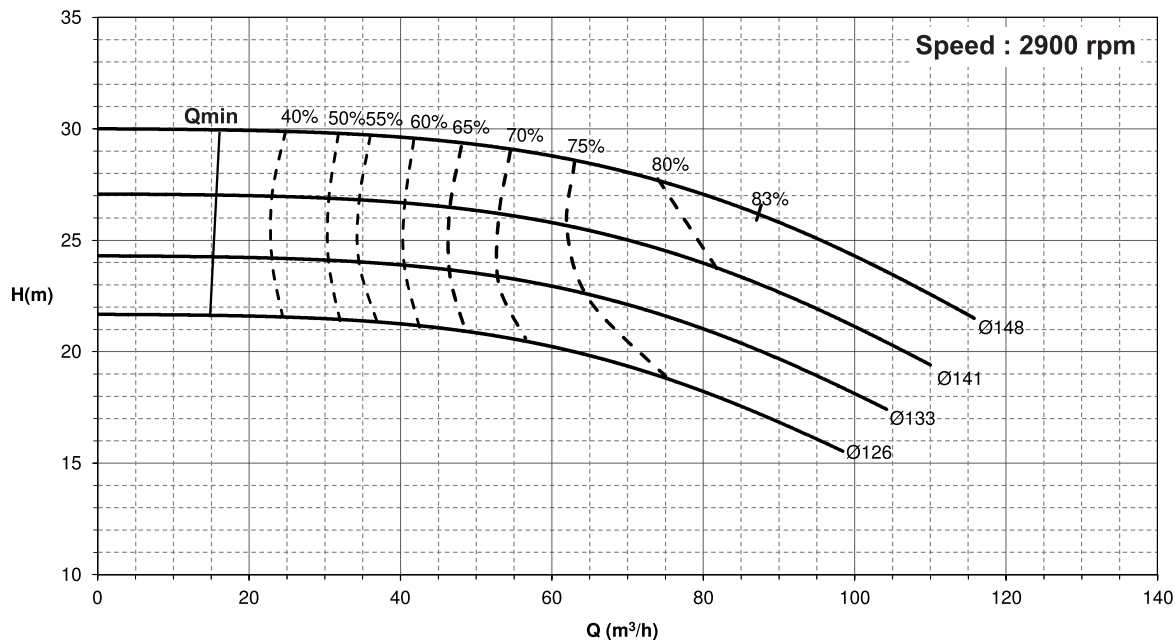




PERFORMANCE CURVE

Pump Model : **ECW-65/125**

Pump Size in mm : **80 x 65**

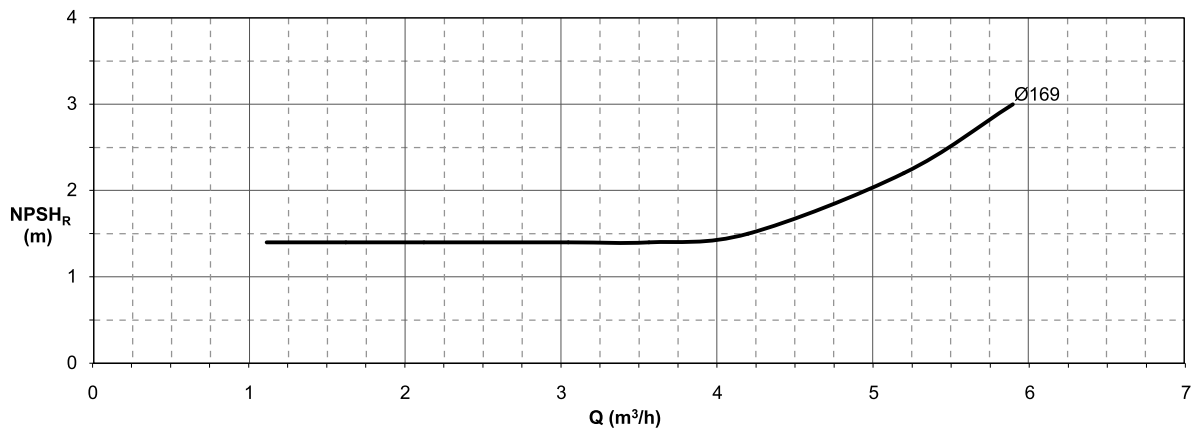
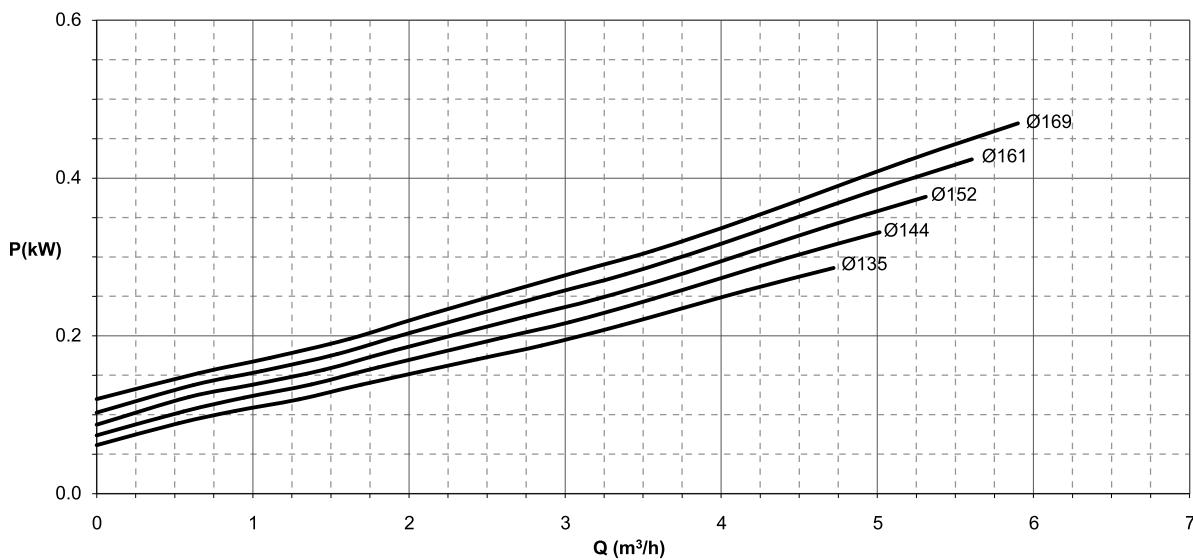
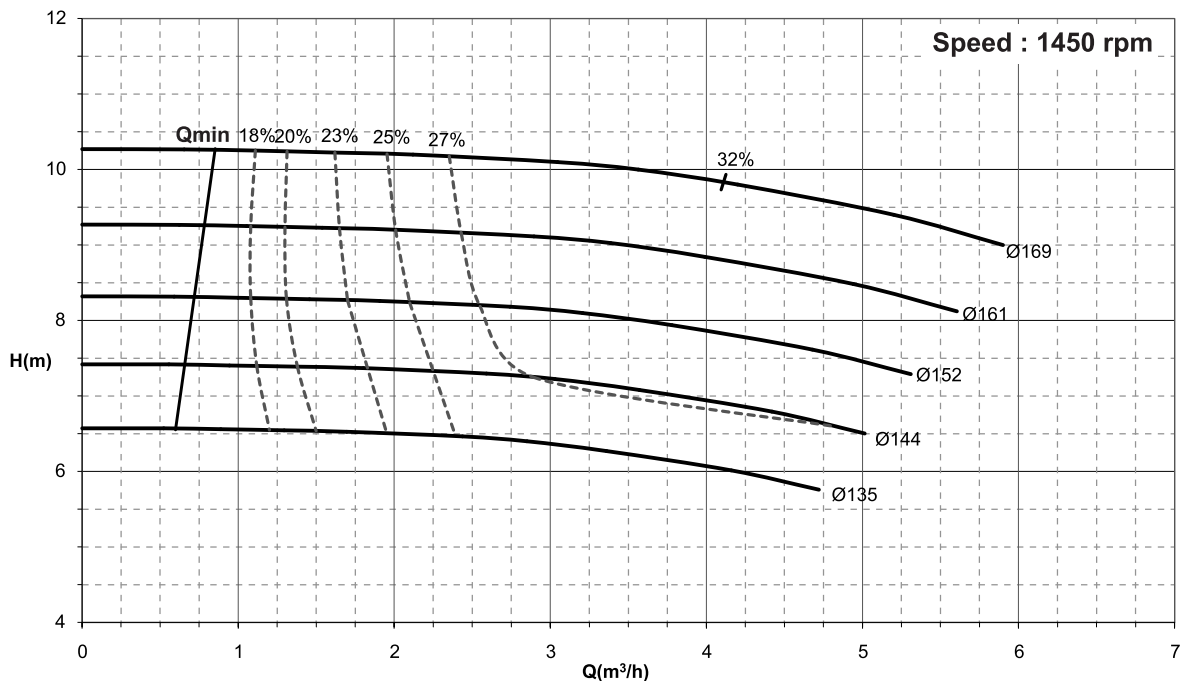




PERFORMANCE CURVE

Pump Model : ECW-25/160

Pump Size in mm : 40 x 25

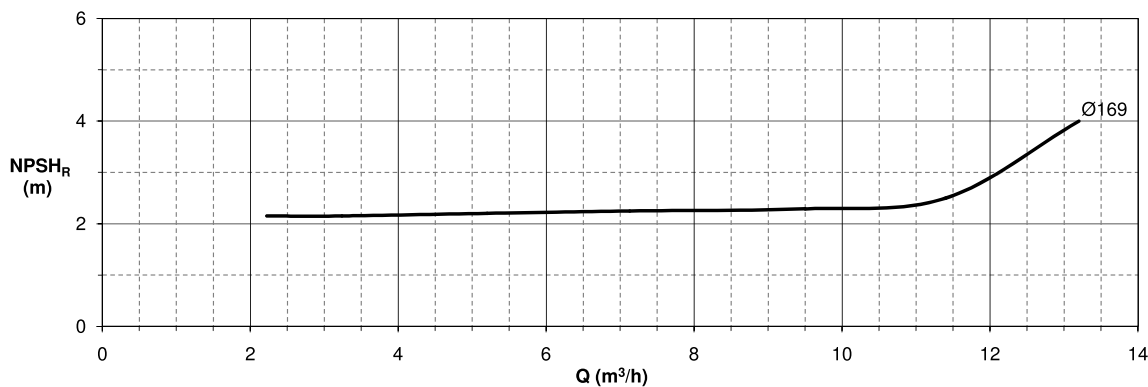
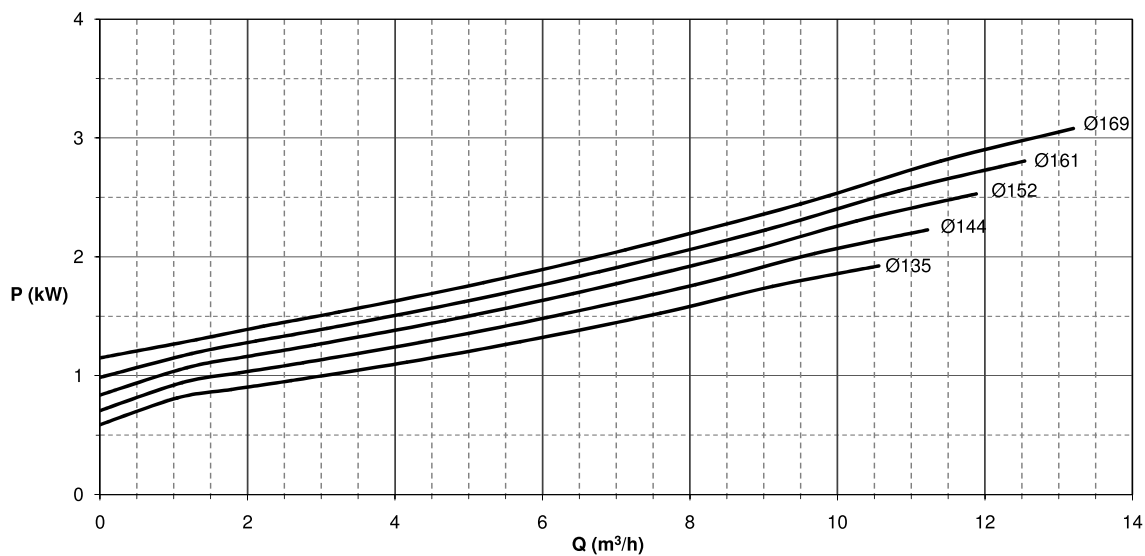
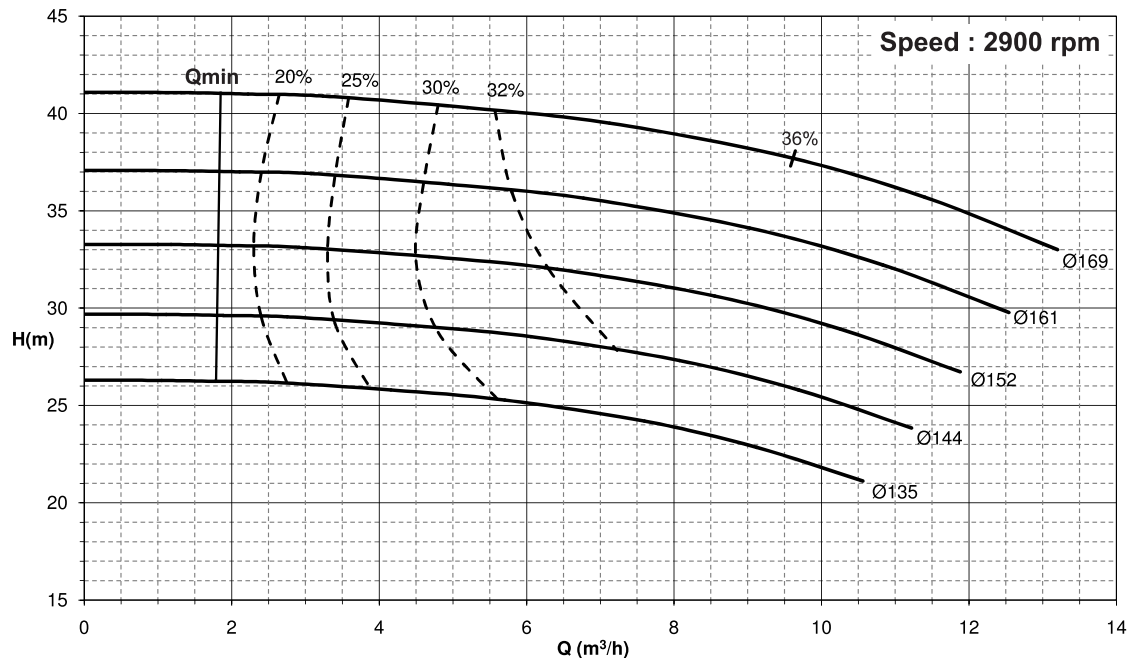




PERFORMANCE CURVE

Pump Model : **ECW-25/160**

Pump Size in mm : **40 x 25**

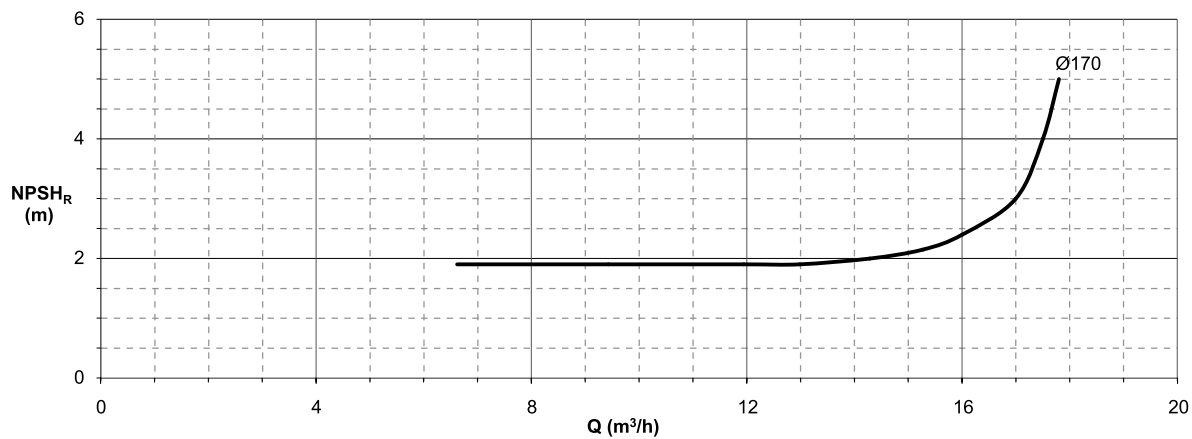
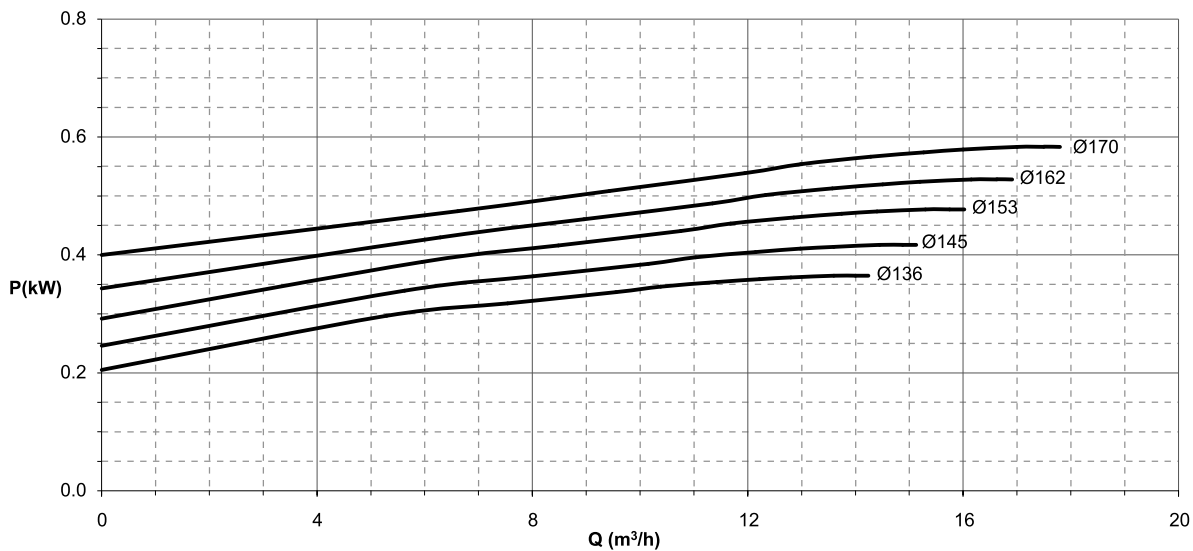
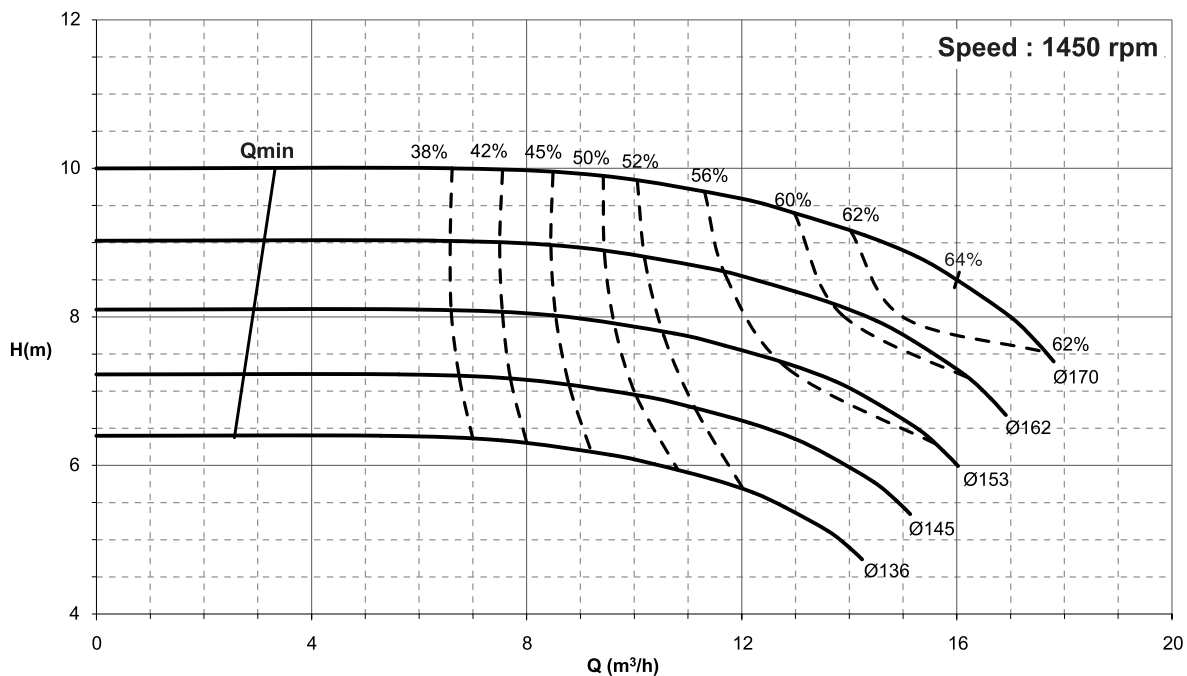




PERFORMANCE CURVE

Pump Model : ECW-32/160

Pump Size in mm : 50 x 32

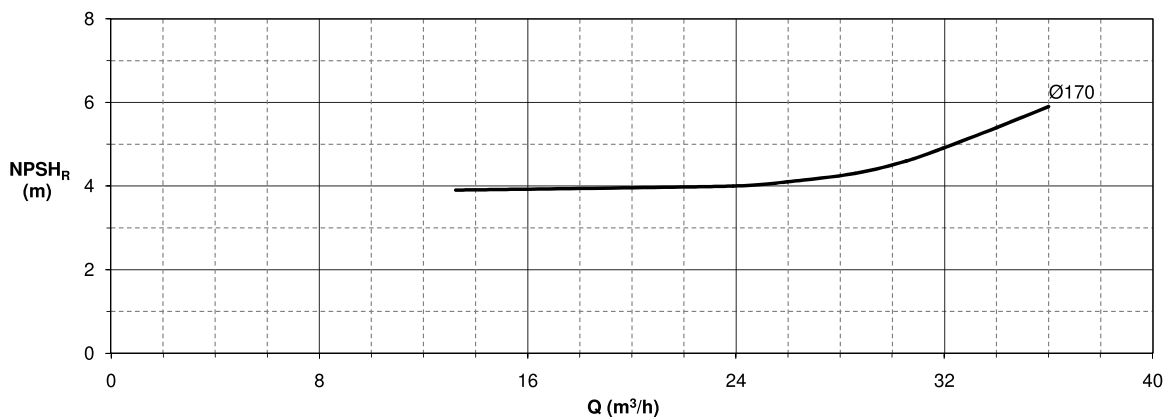
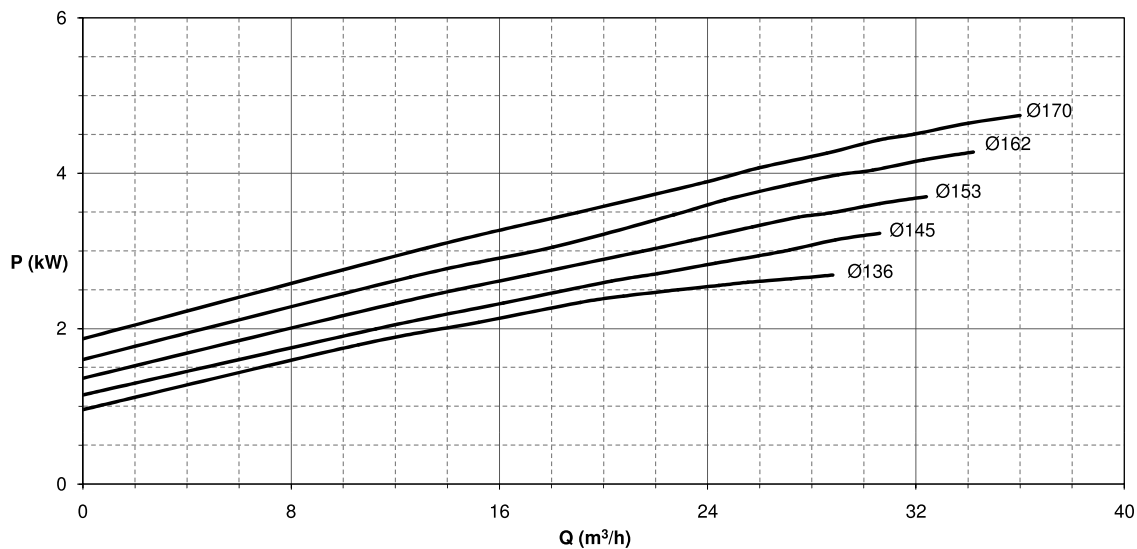
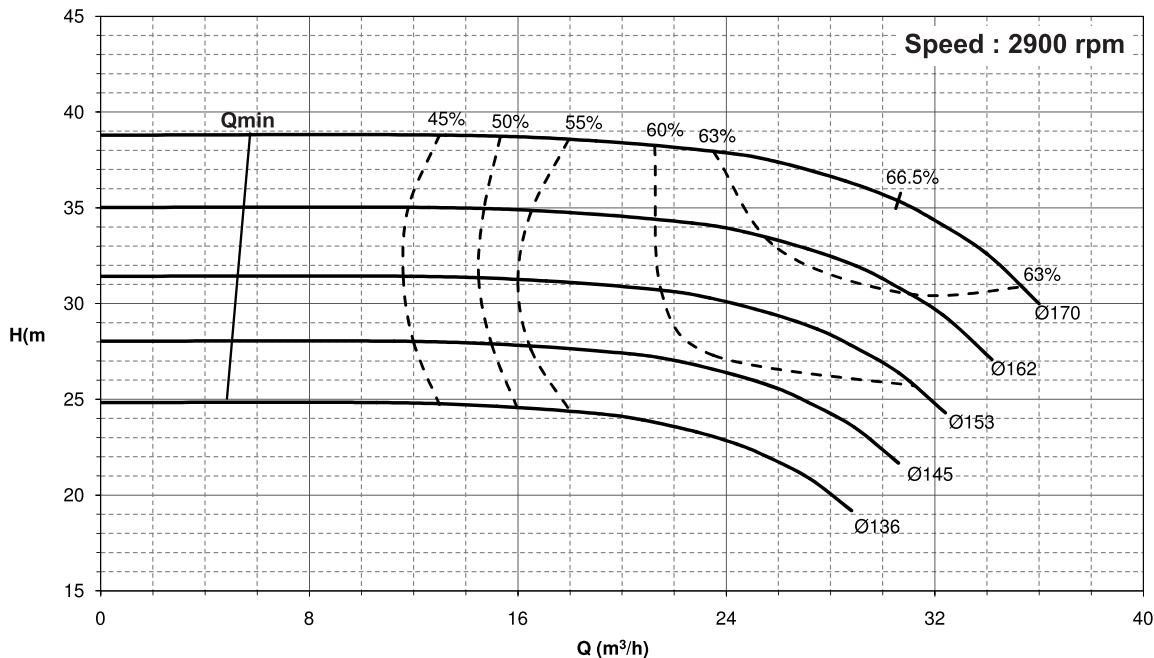




PERFORMANCE CURVE

Pump Model : **ECW-32/160**

Pump Size in mm : **50 x 32**

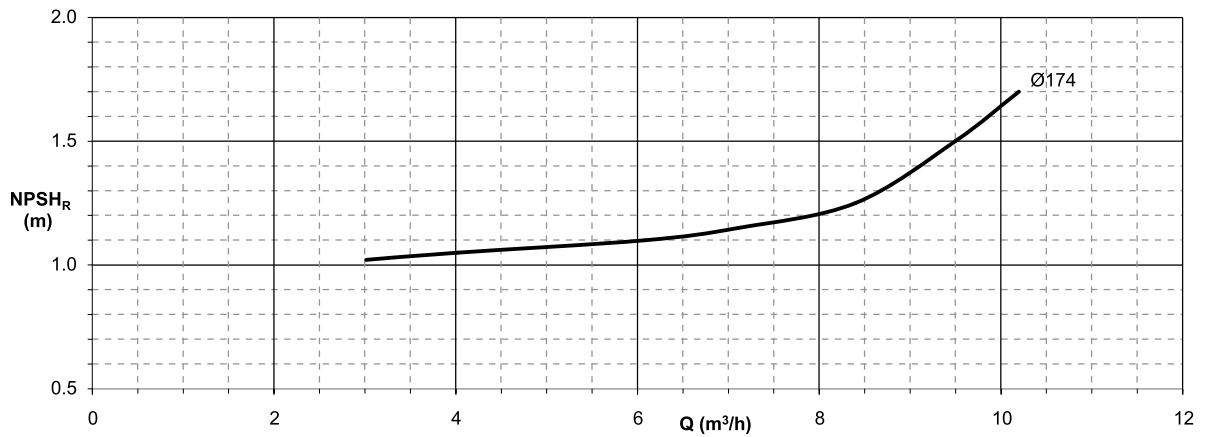
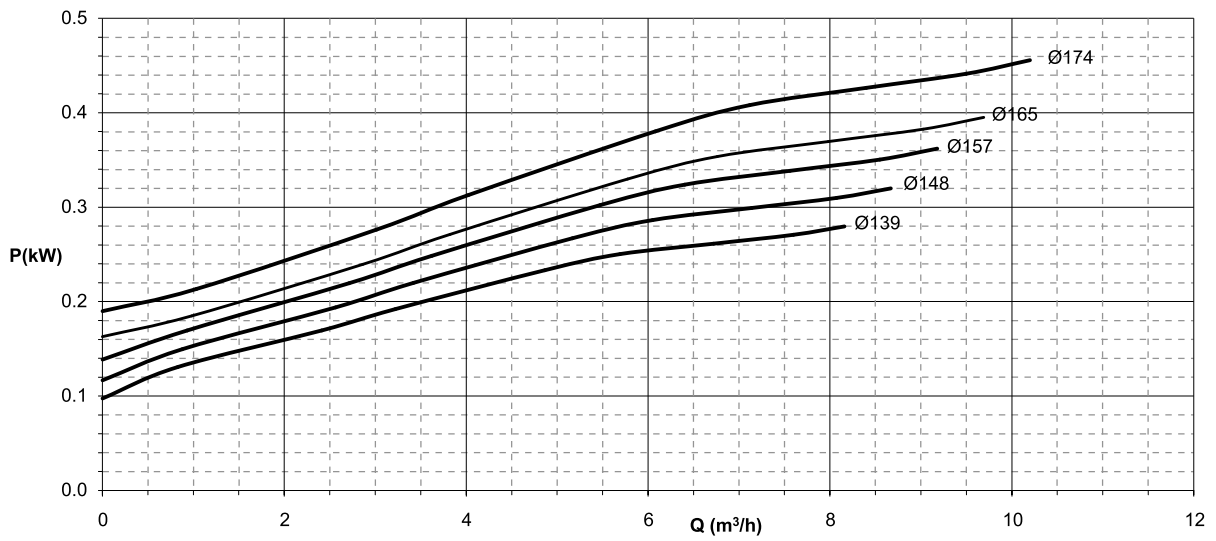
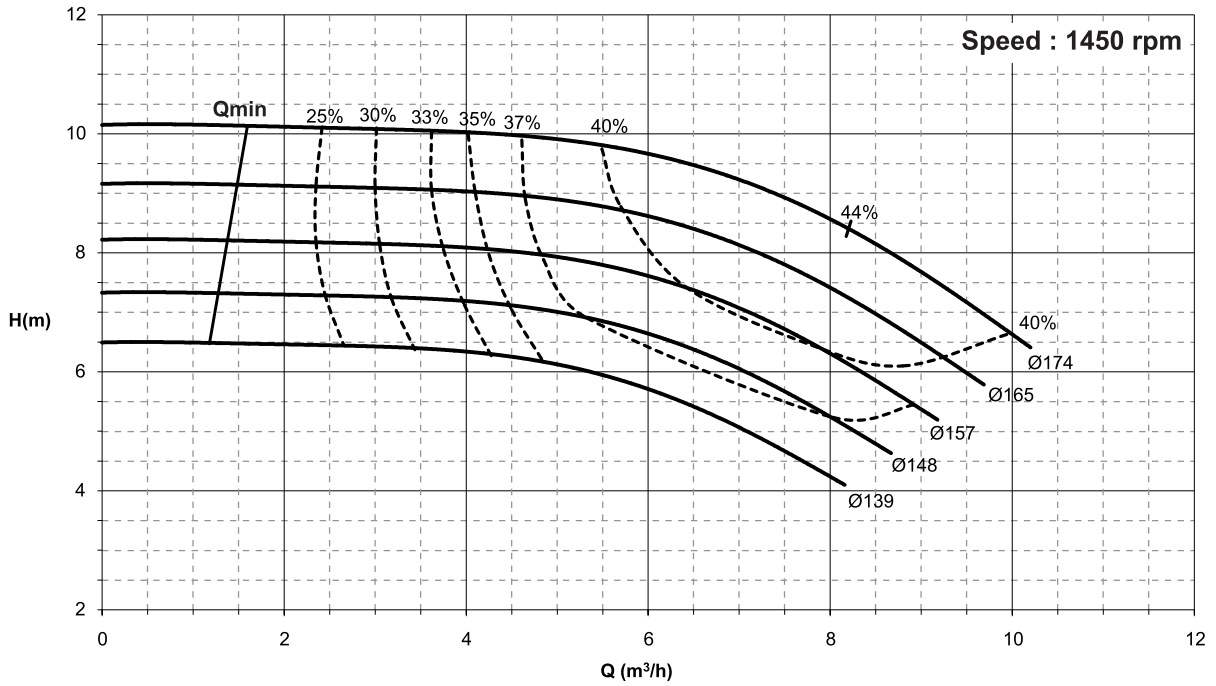




PERFORMANCE CURVE

Pump Model : ECW-32/160E

Pump Size in mm : 50 x 32

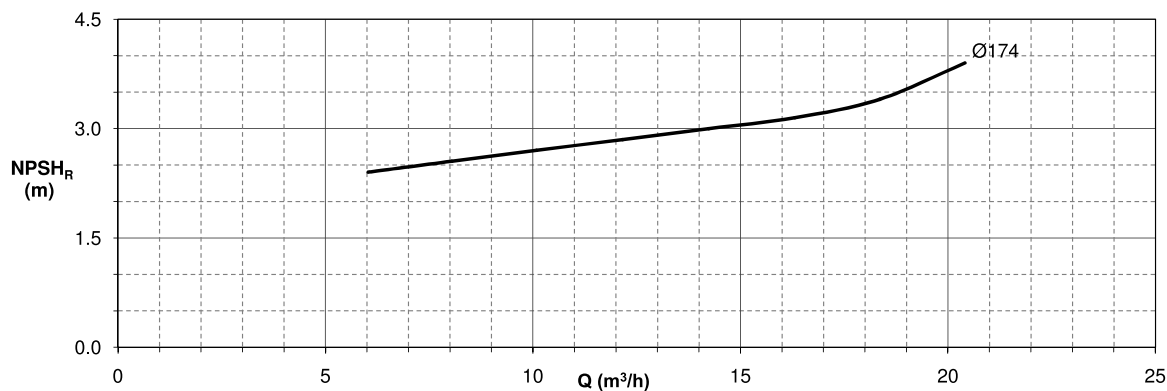
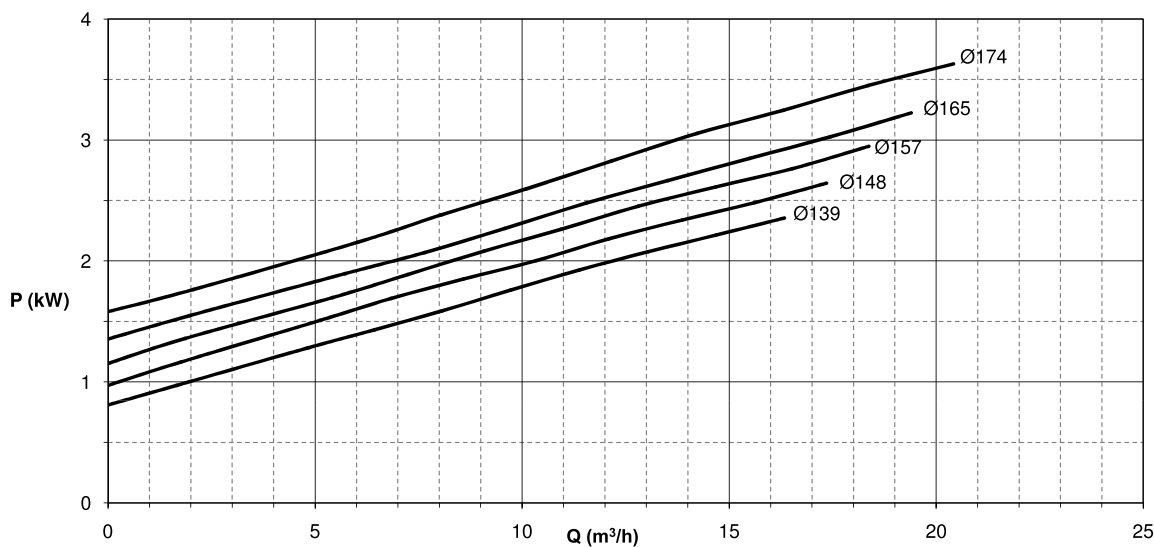
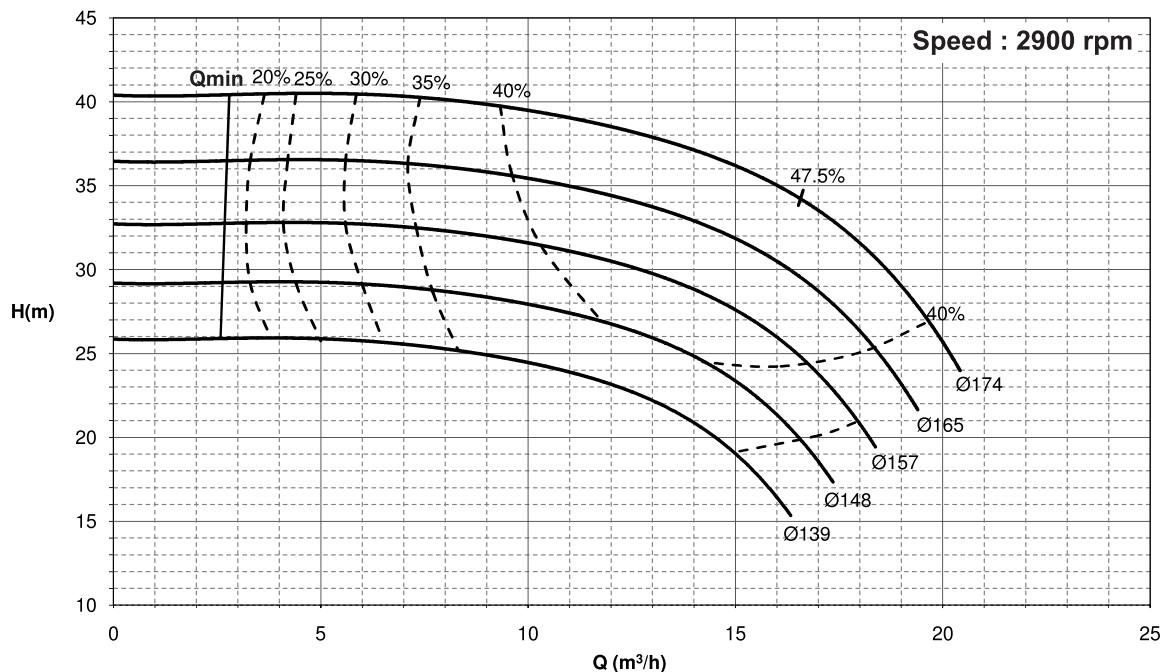




PERFORMANCE CURVE

Pump Model : **ECW-32/160E**

Pump Size in mm : **50 x 32**

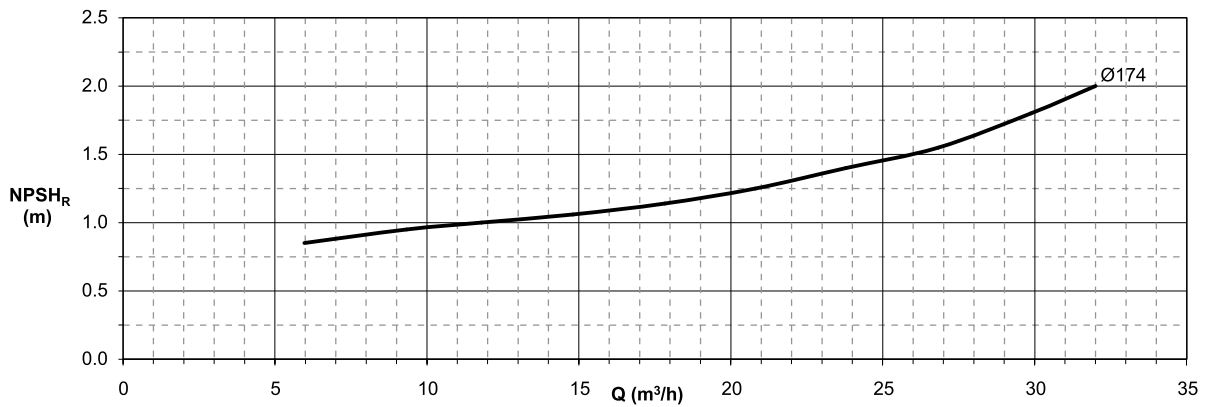
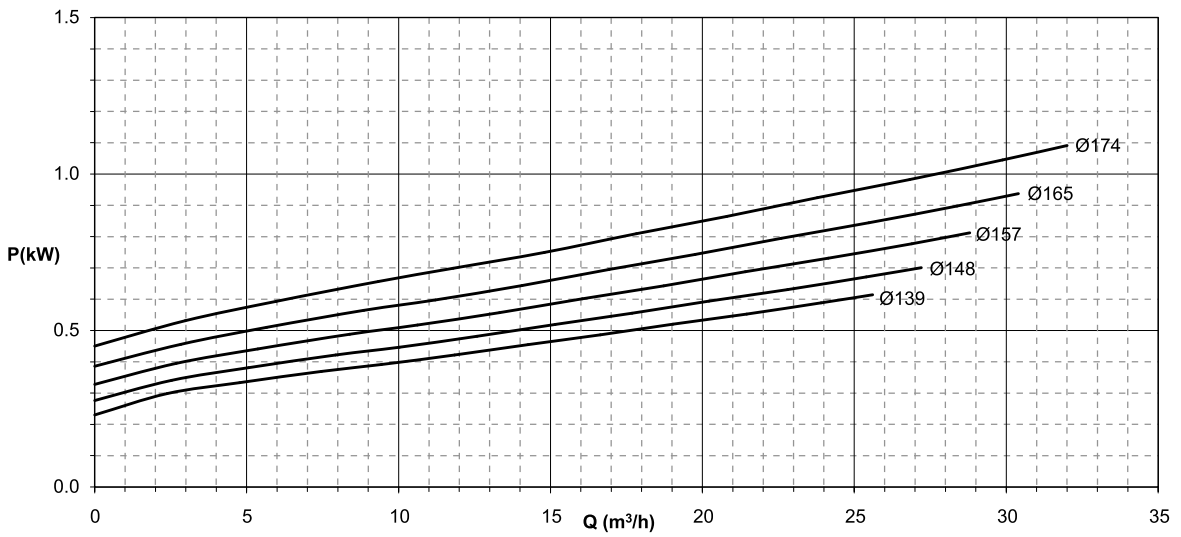
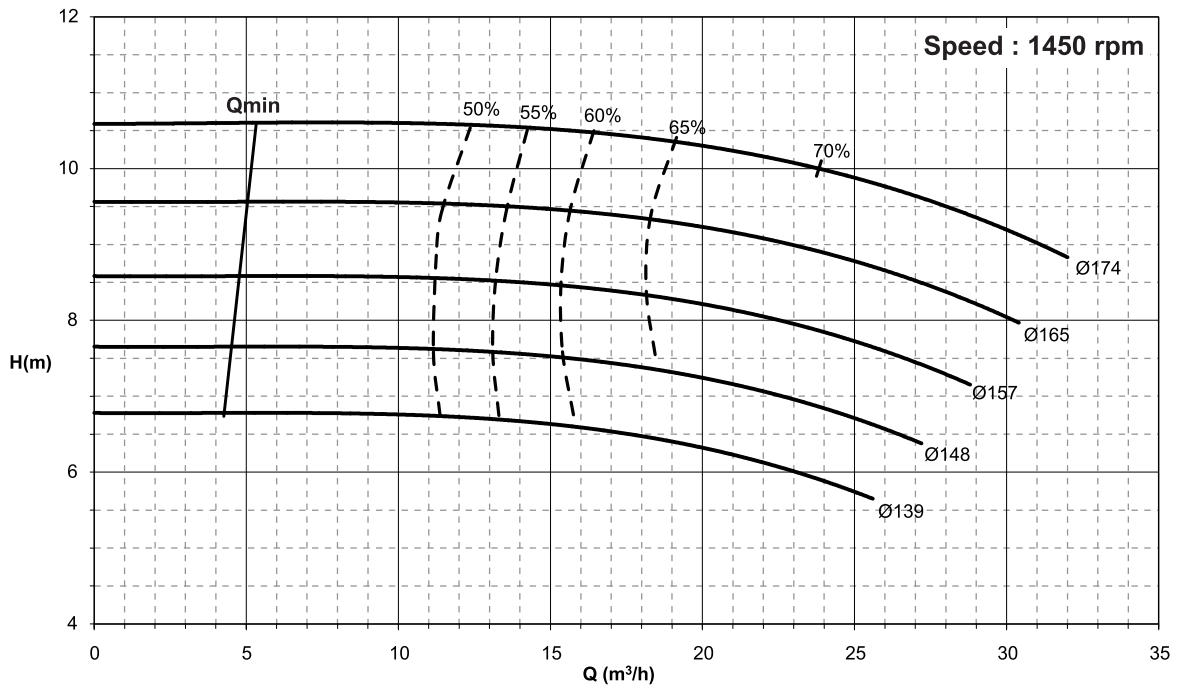




PERFORMANCE CURVE

Pump Model : ECW-40/160

Pump Size in mm : 65 x 40

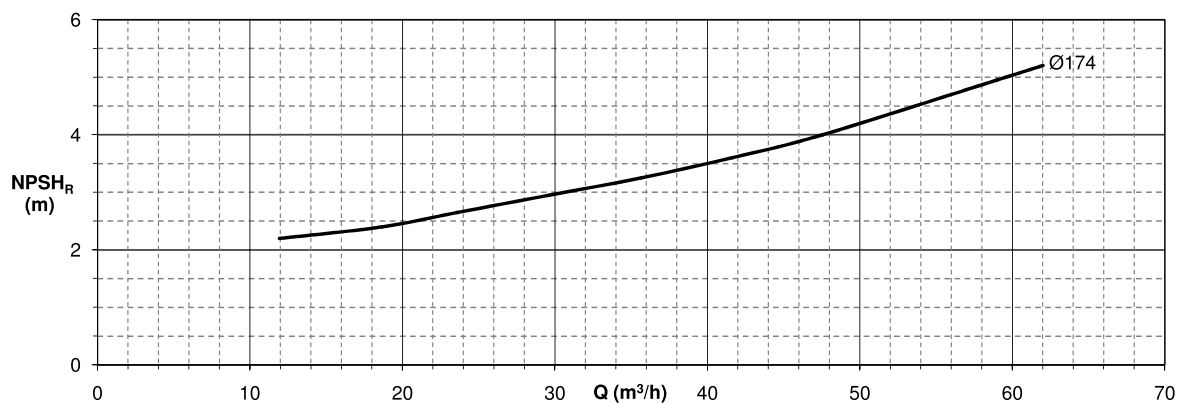
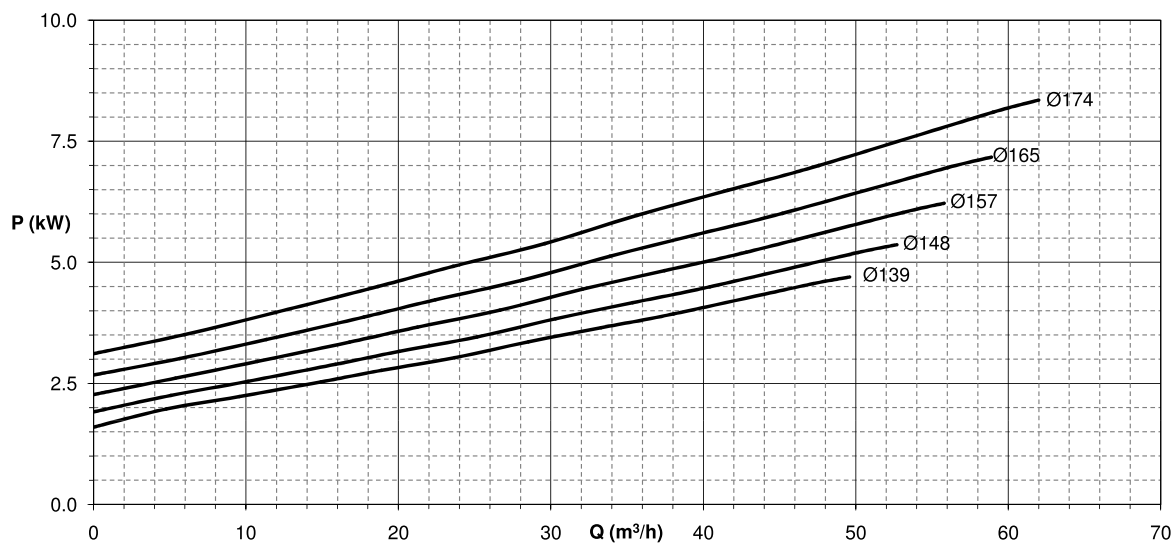
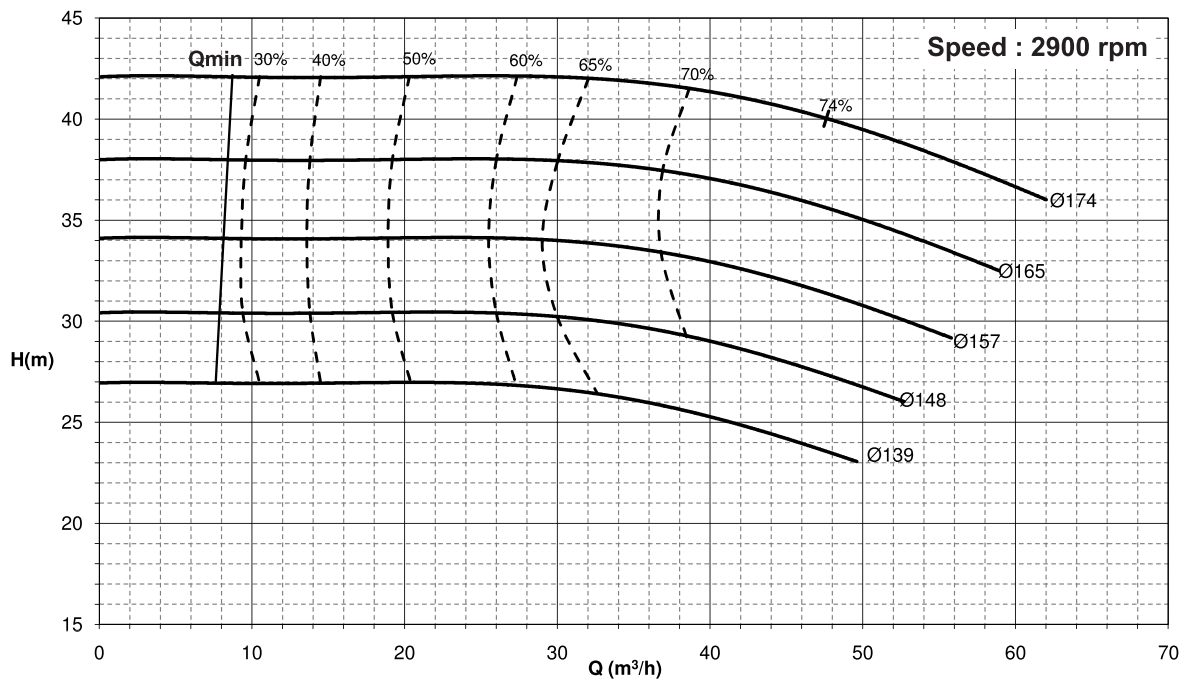




PERFORMANCE CURVE

Pump Model : **ECW-40/160**

Pump Size in mm : **65 x 40**

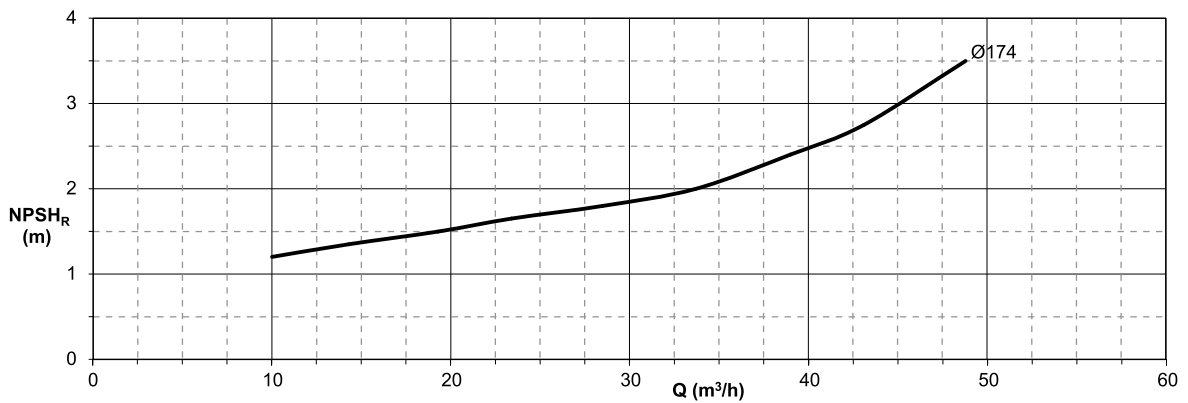
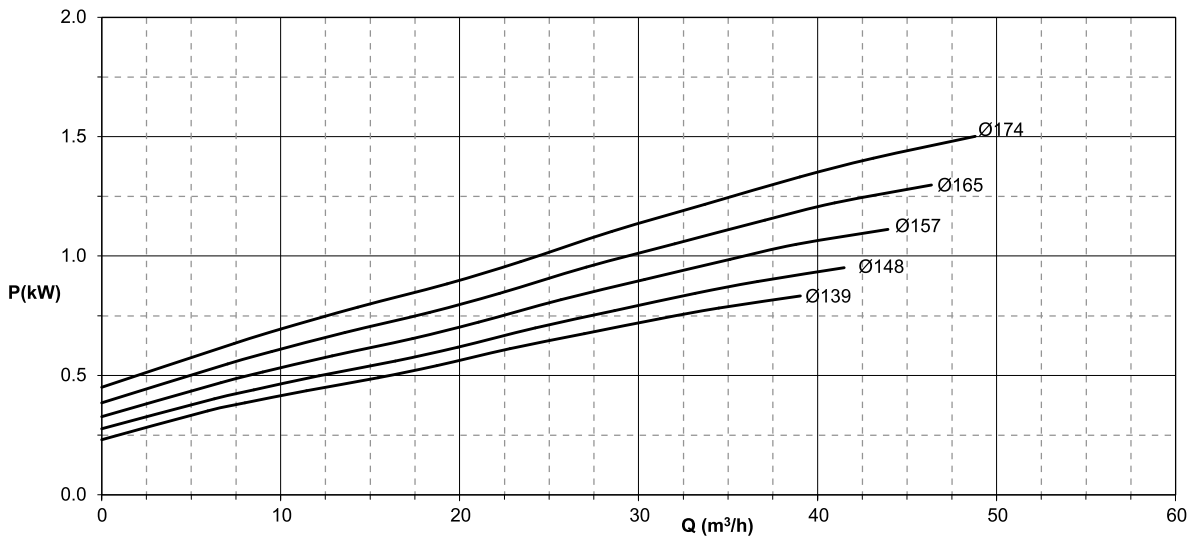
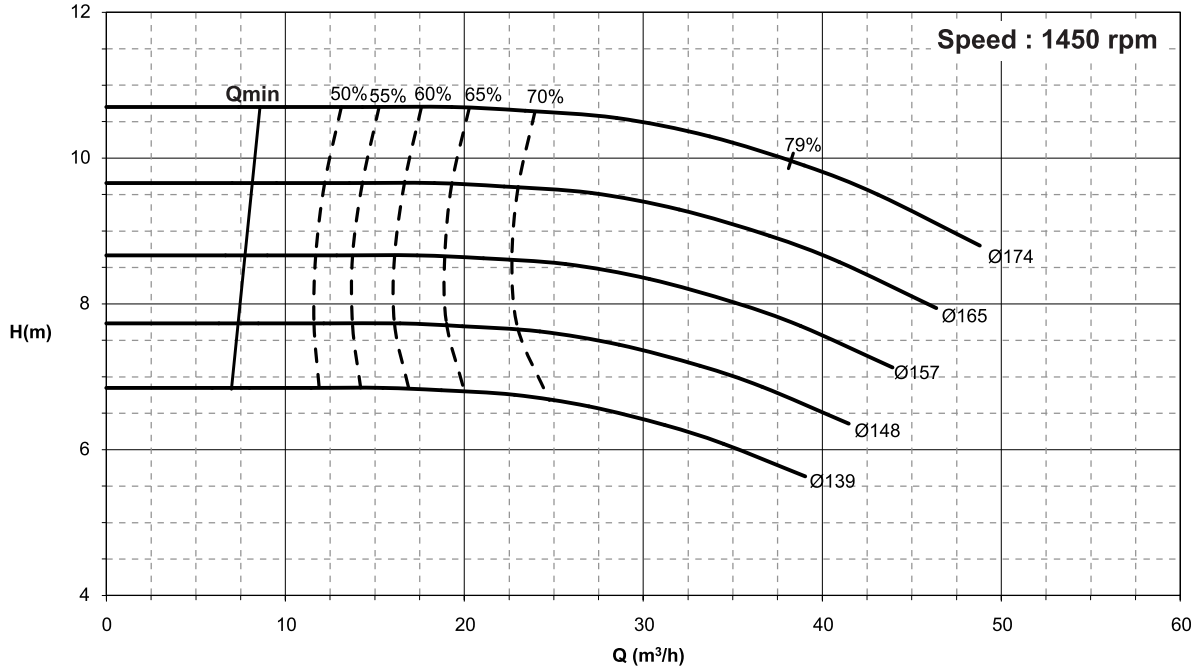




PERFORMANCE CURVE

Pump Model : ECW-50/160

Pump Size in mm : 65 x 50

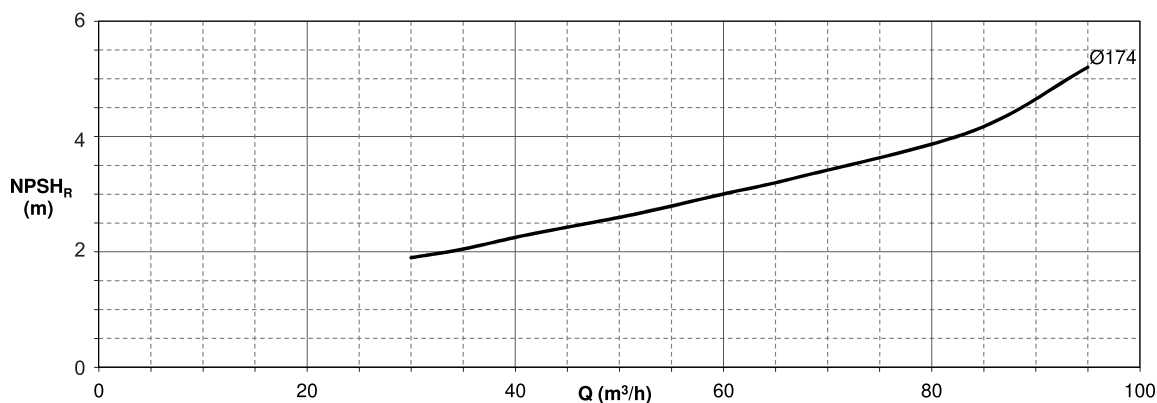
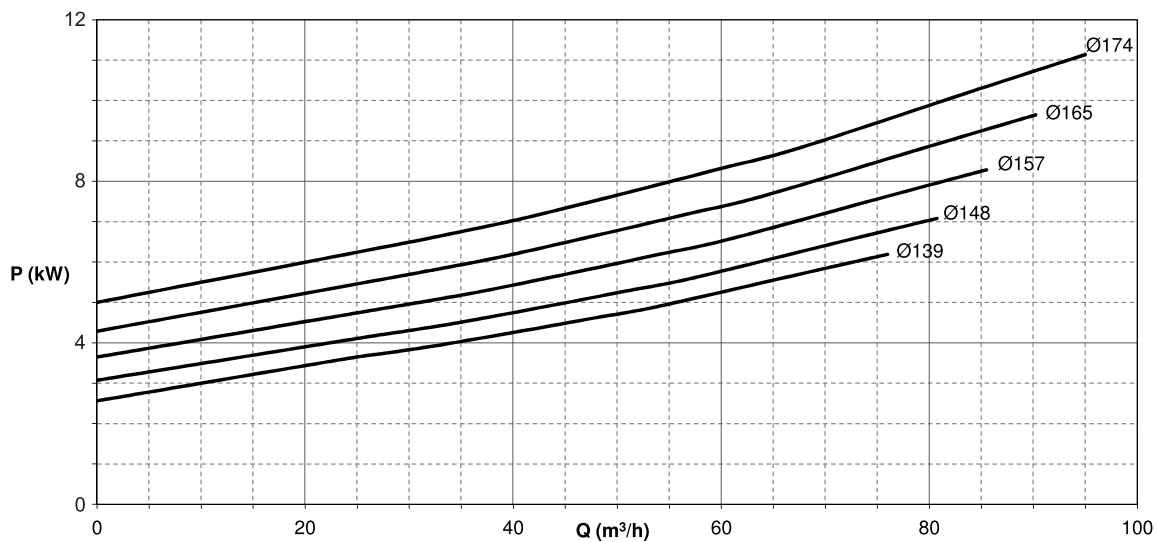
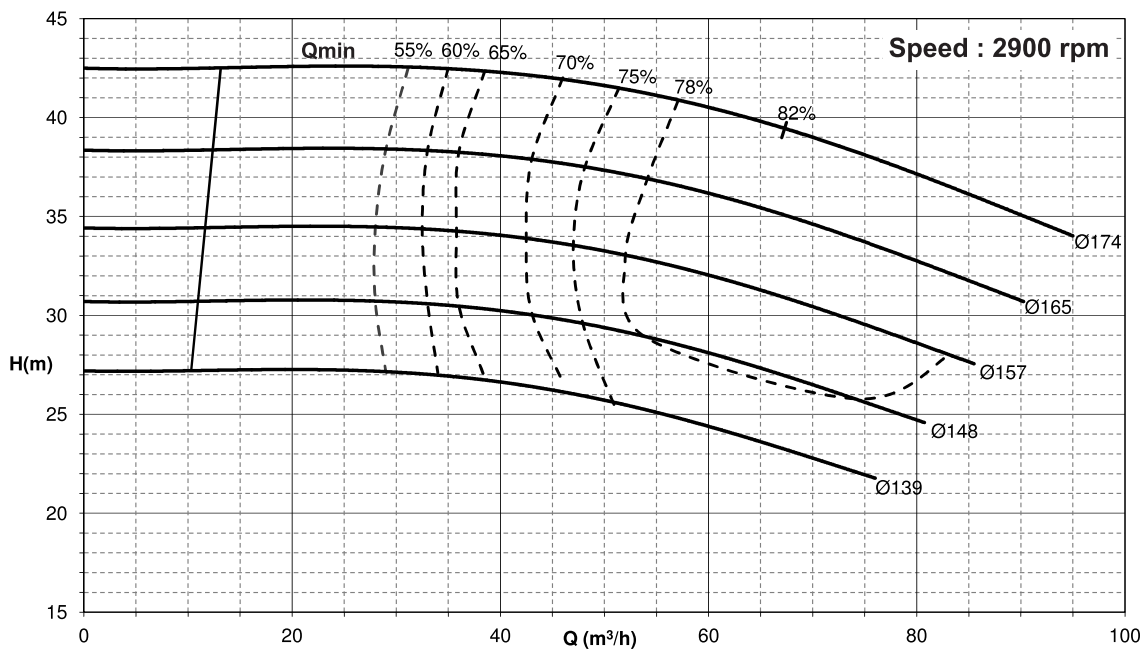




PERFORMANCE CURVE

Pump Model : **ECW-50/160**

Pump Size in mm : **65 x 50**

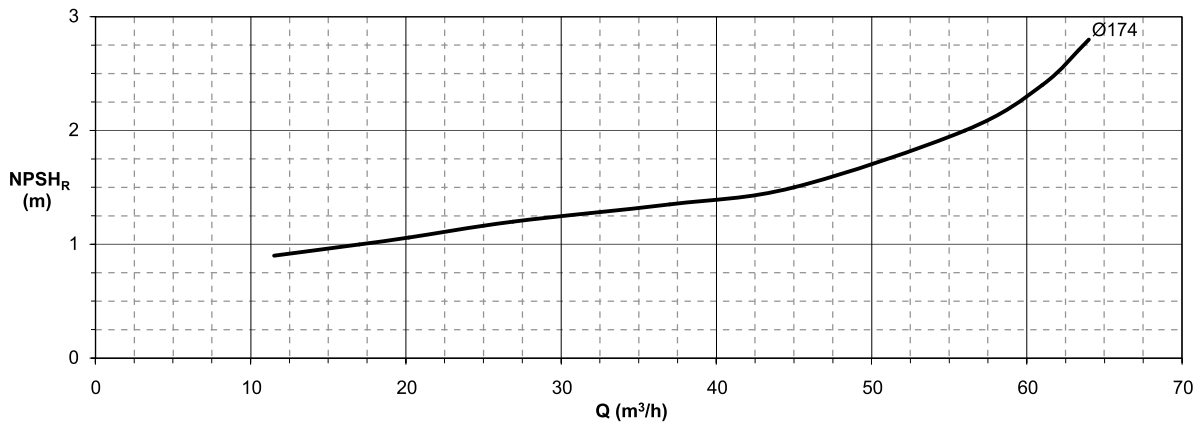
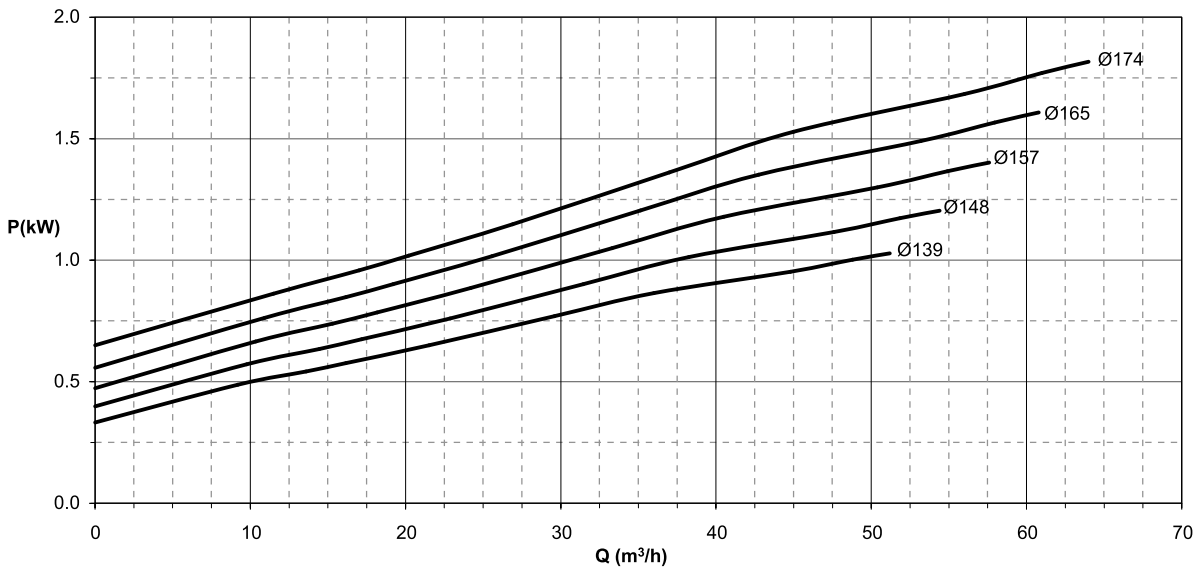
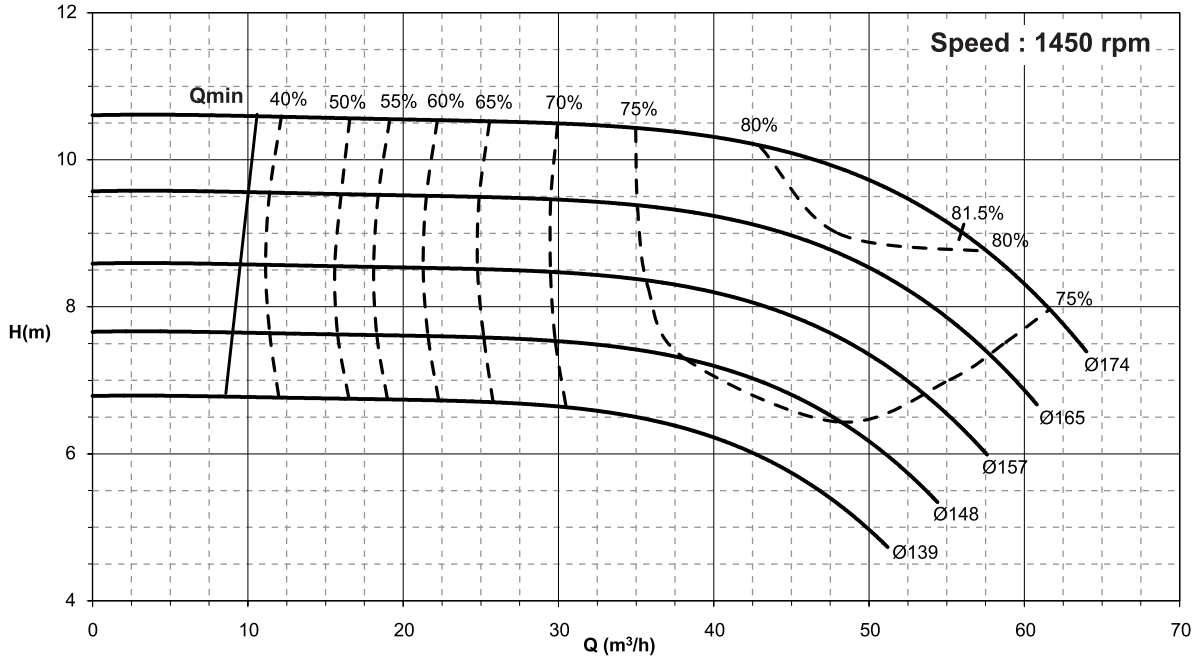




PERFORMANCE CURVE

Pump Model : ECW-65/160

Pump Size in mm : 80 x 65



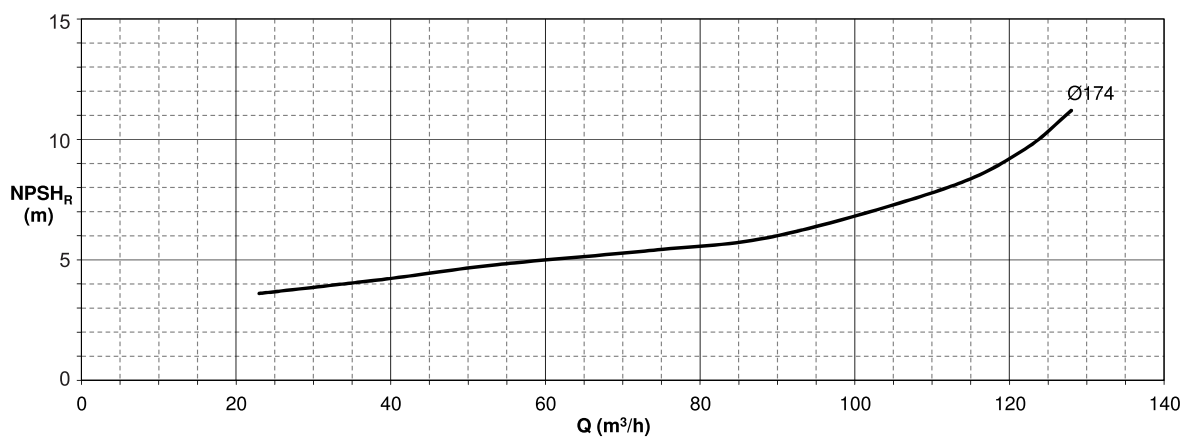
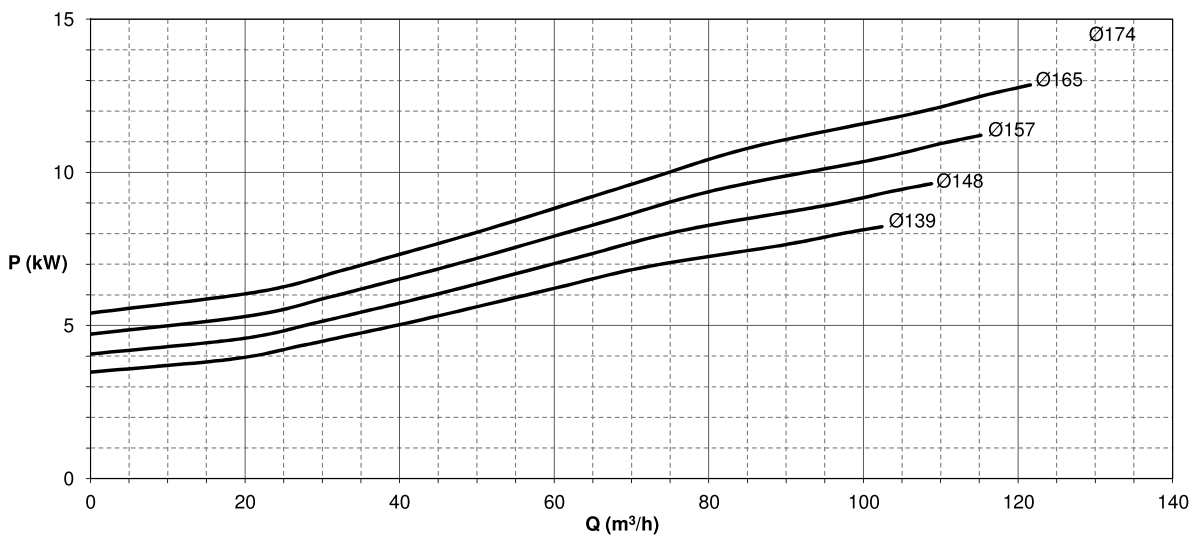
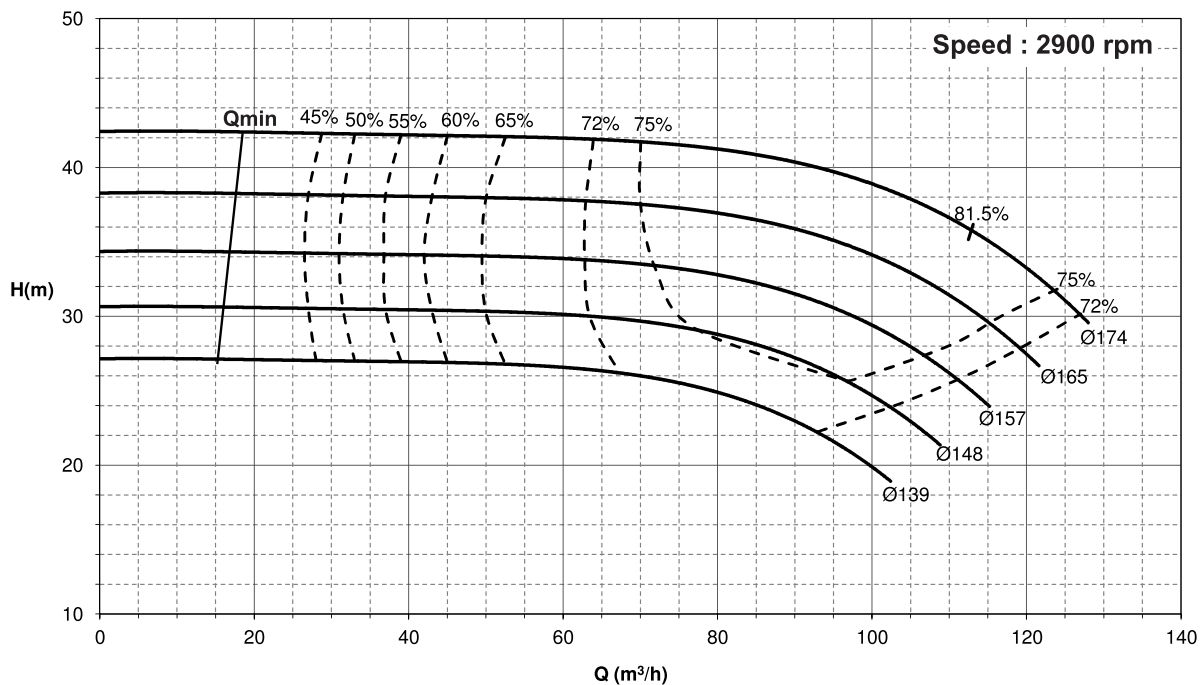


PERFORMANCE CURVE

Pump Model : **ECW-65/160**

On Request

Pump Size in mm : **80 x 65**

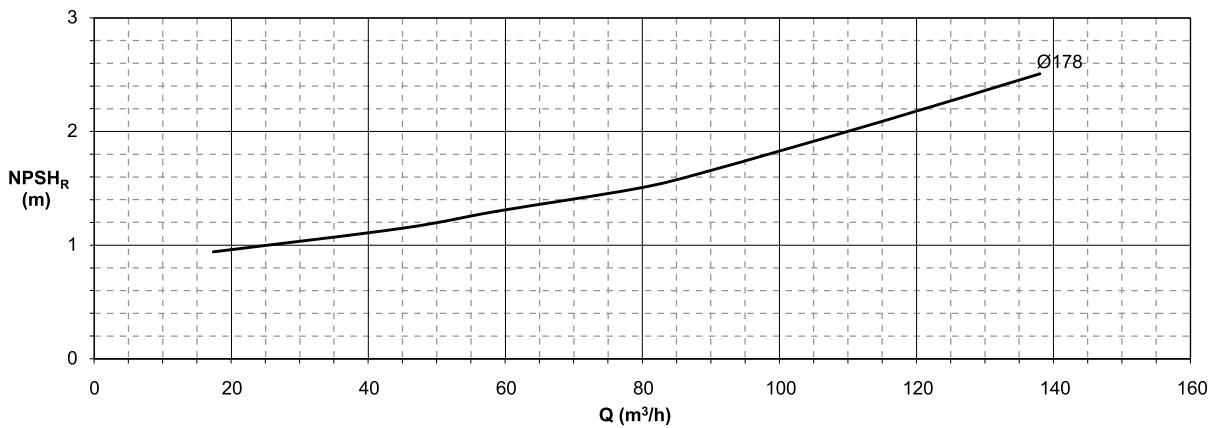
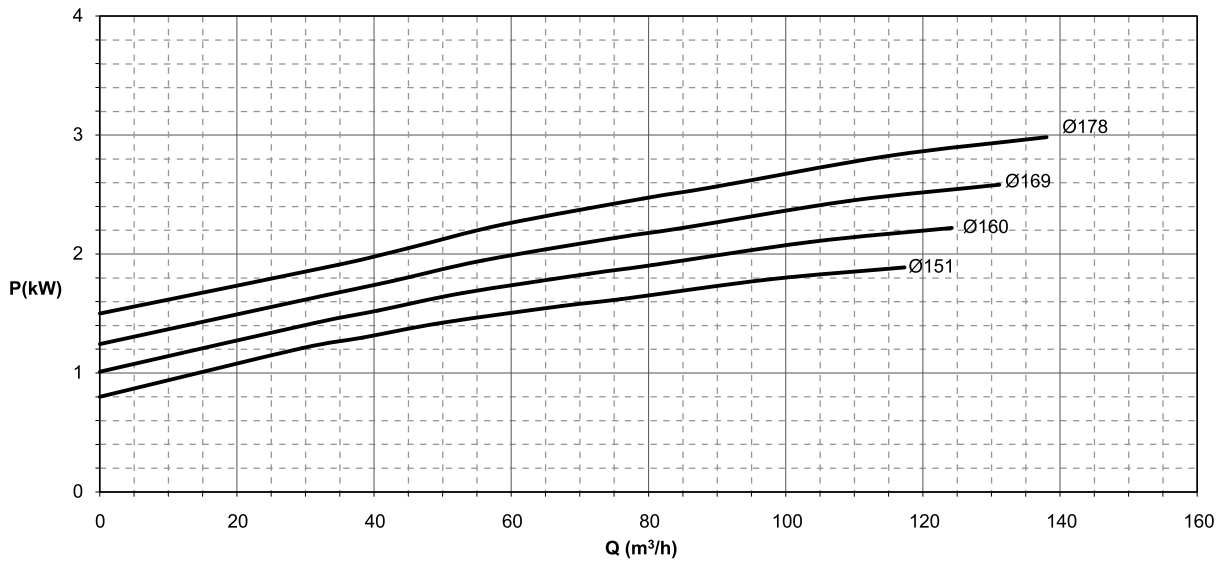
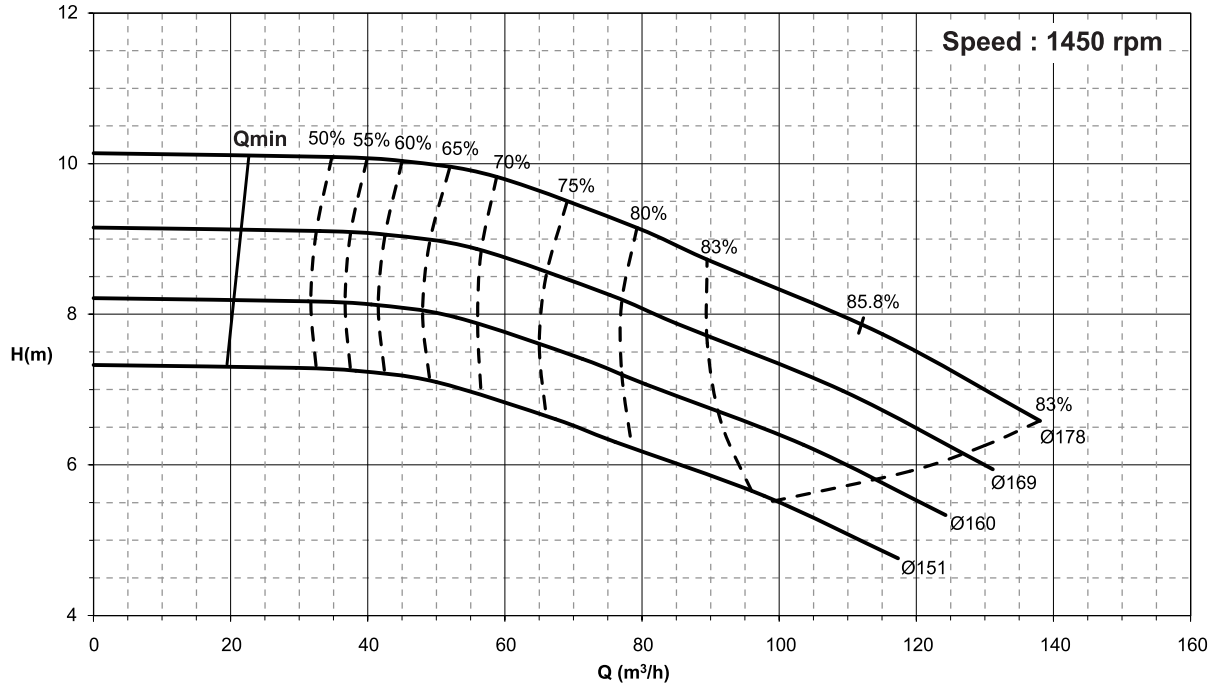




PERFORMANCE CURVE

Pump Model : **ECW-80/160**
On Request

Pump Size in mm : **100 x 80**



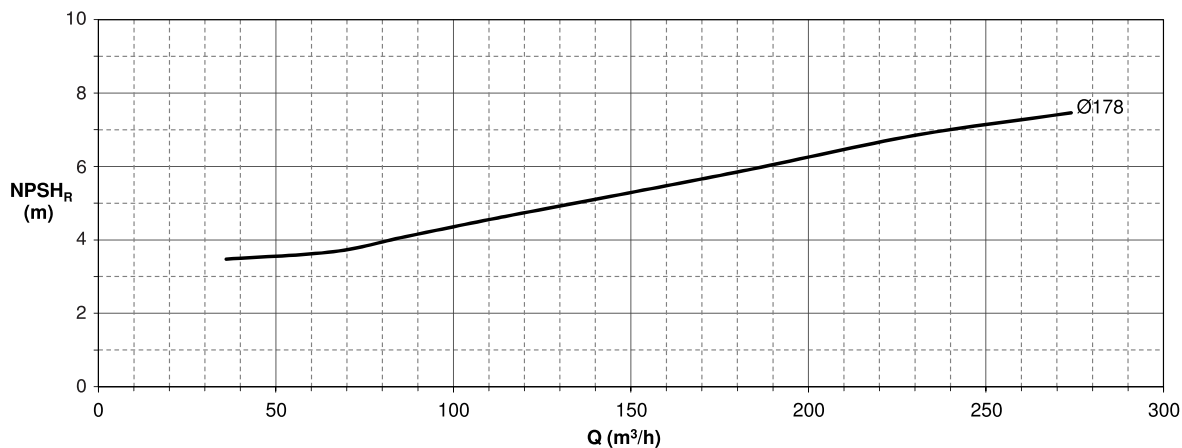
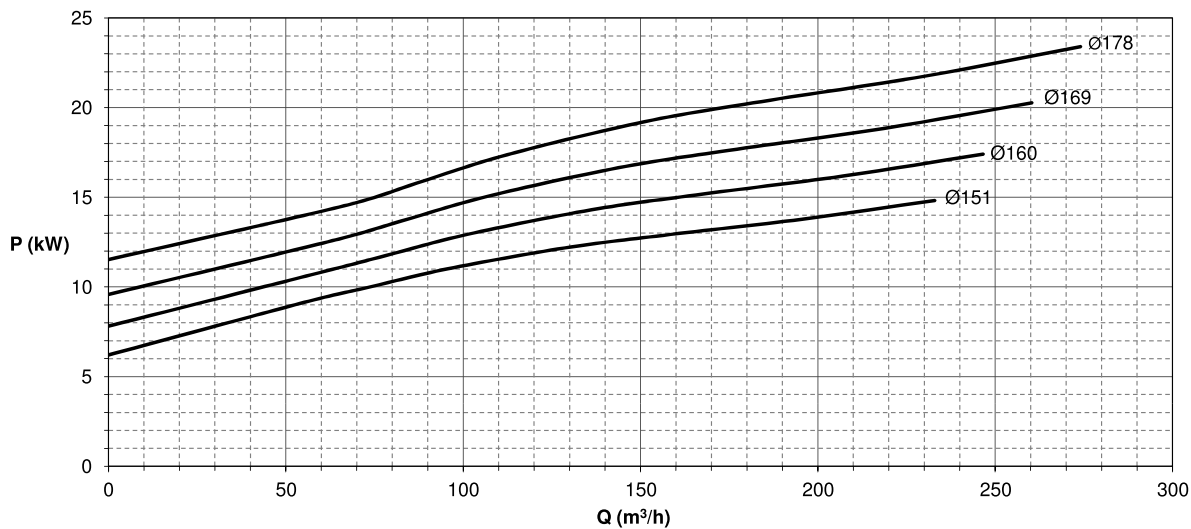
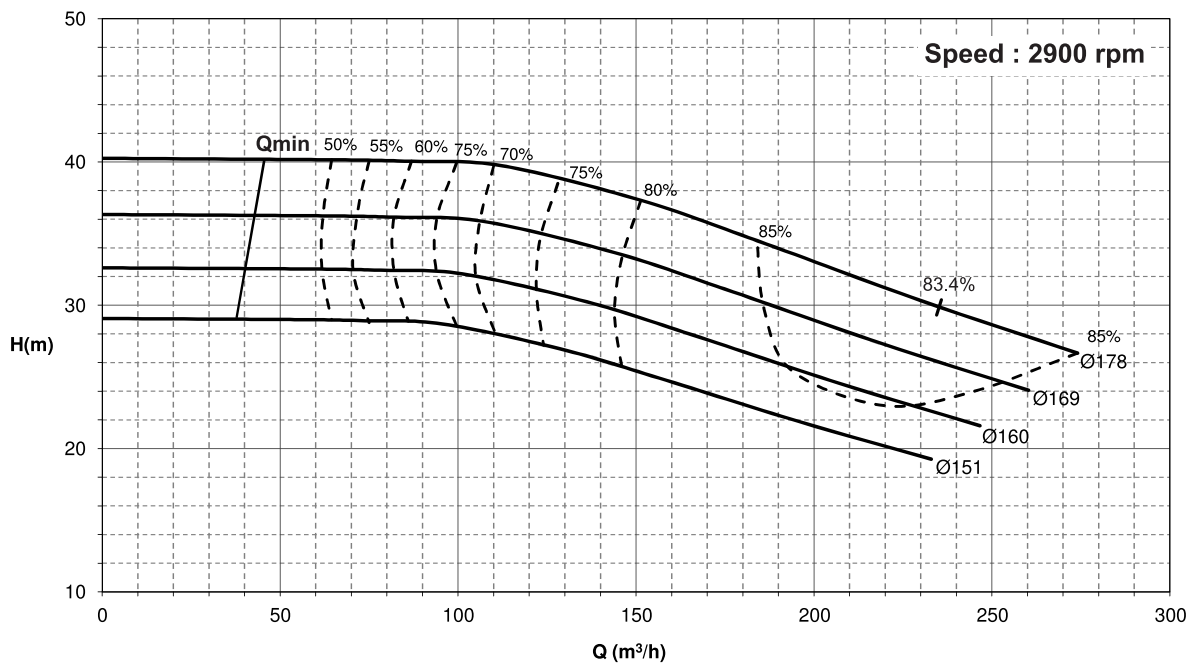


PERFORMANCE CURVE

Pump Model : **ECW-80/160**

On Request

Pump Size in mm : **100 x 80**

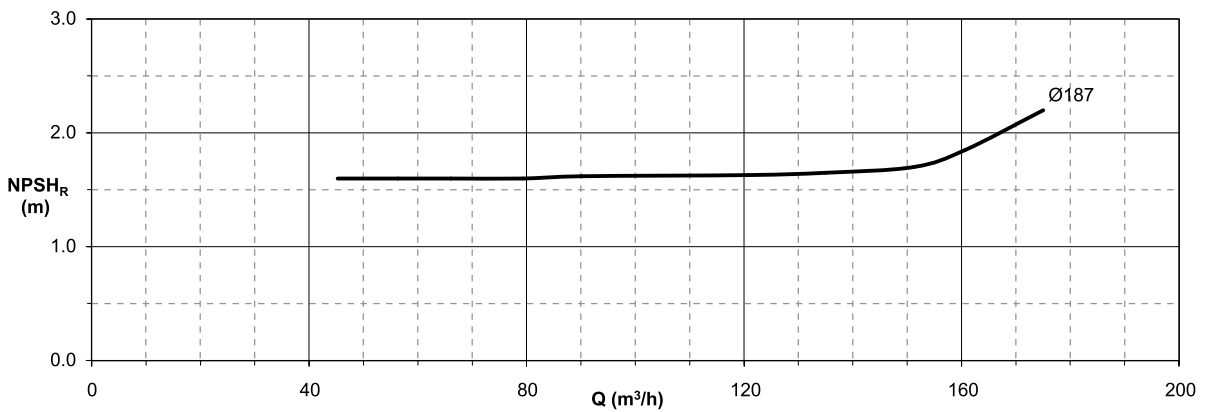
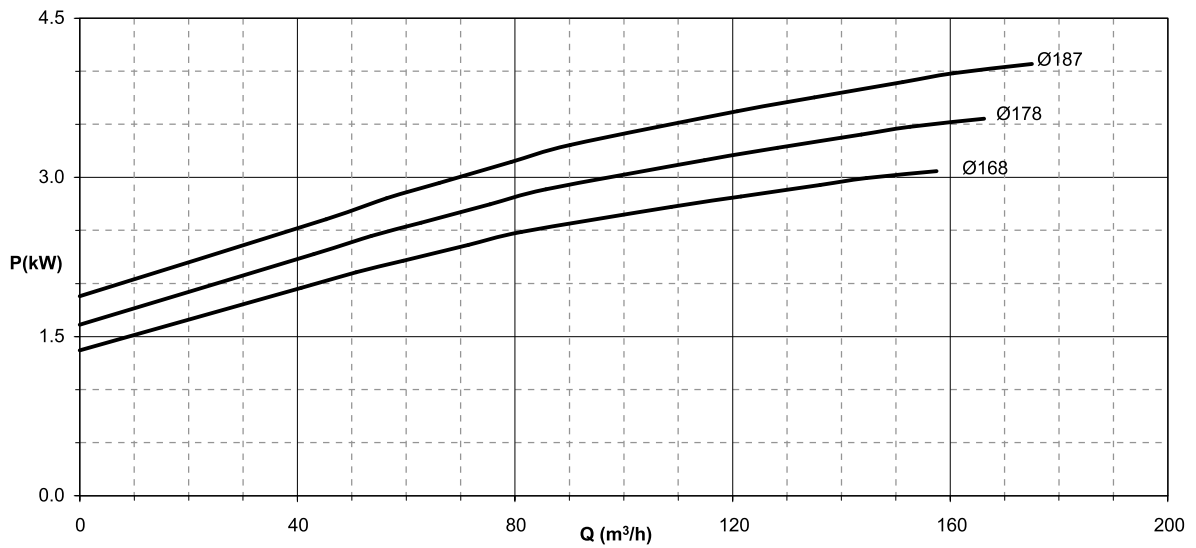
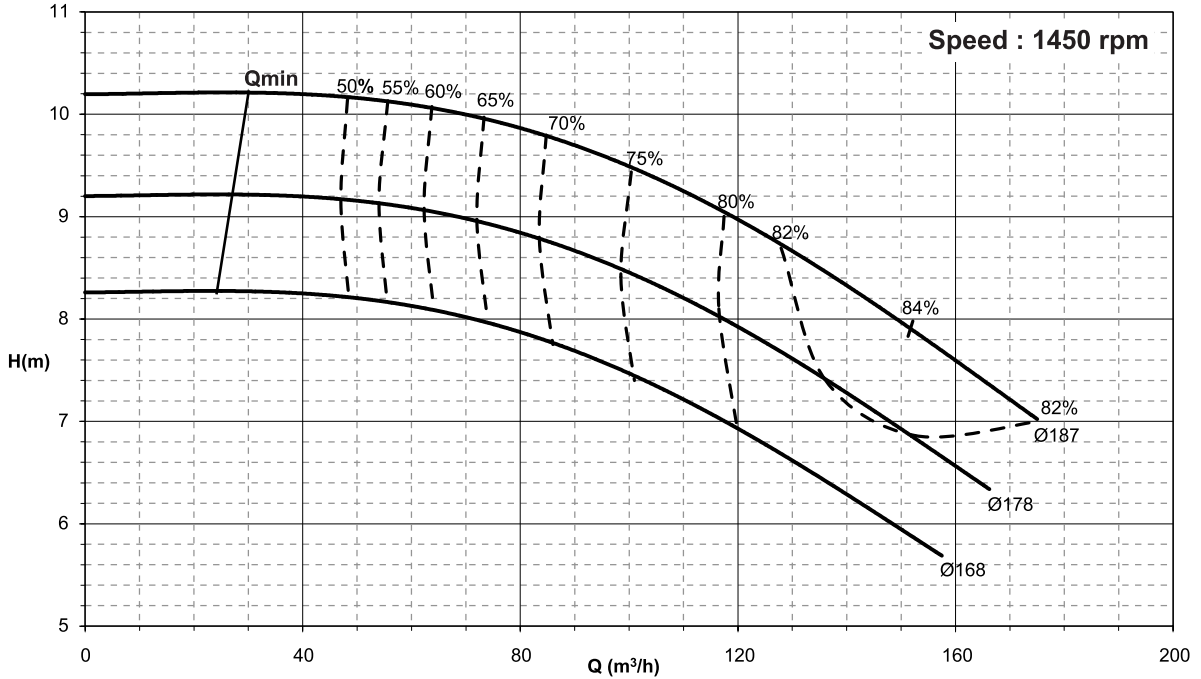




PERFORMANCE CURVE

Pump Model : ECW-100/160

Pump Size in mm : 125 x 100

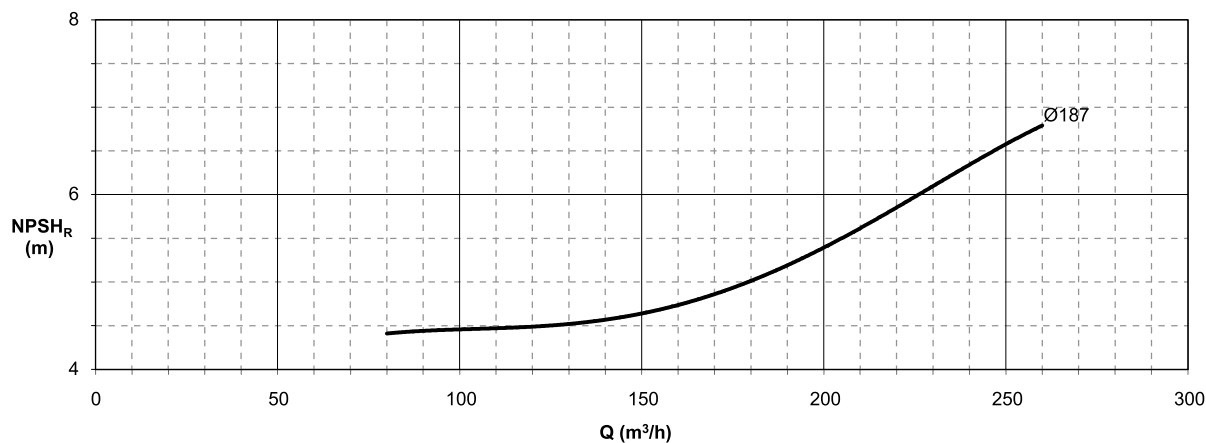
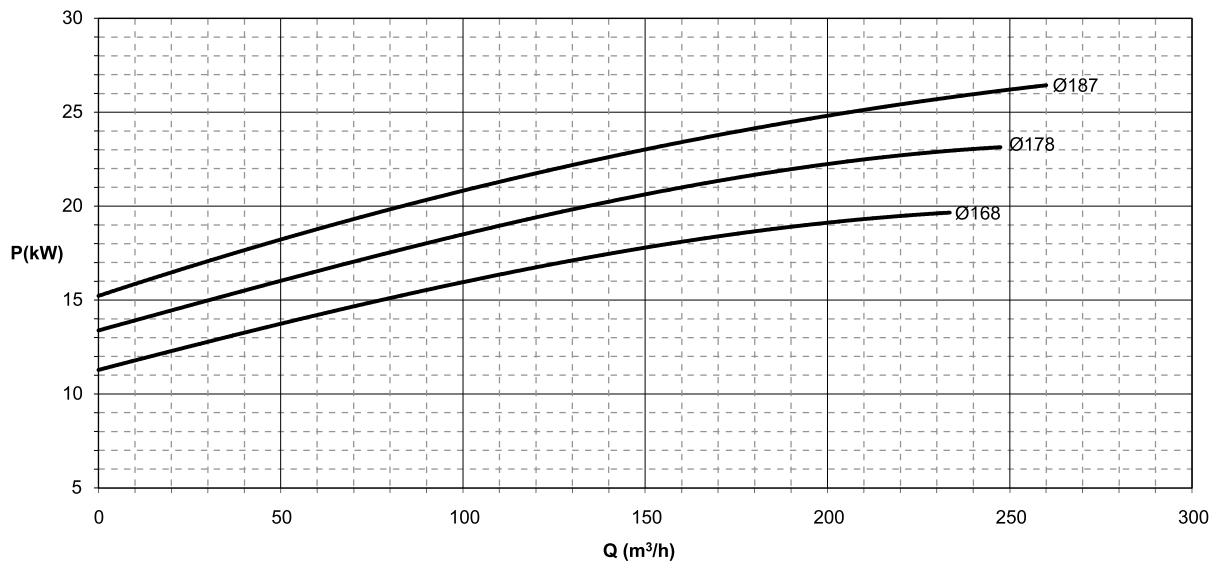
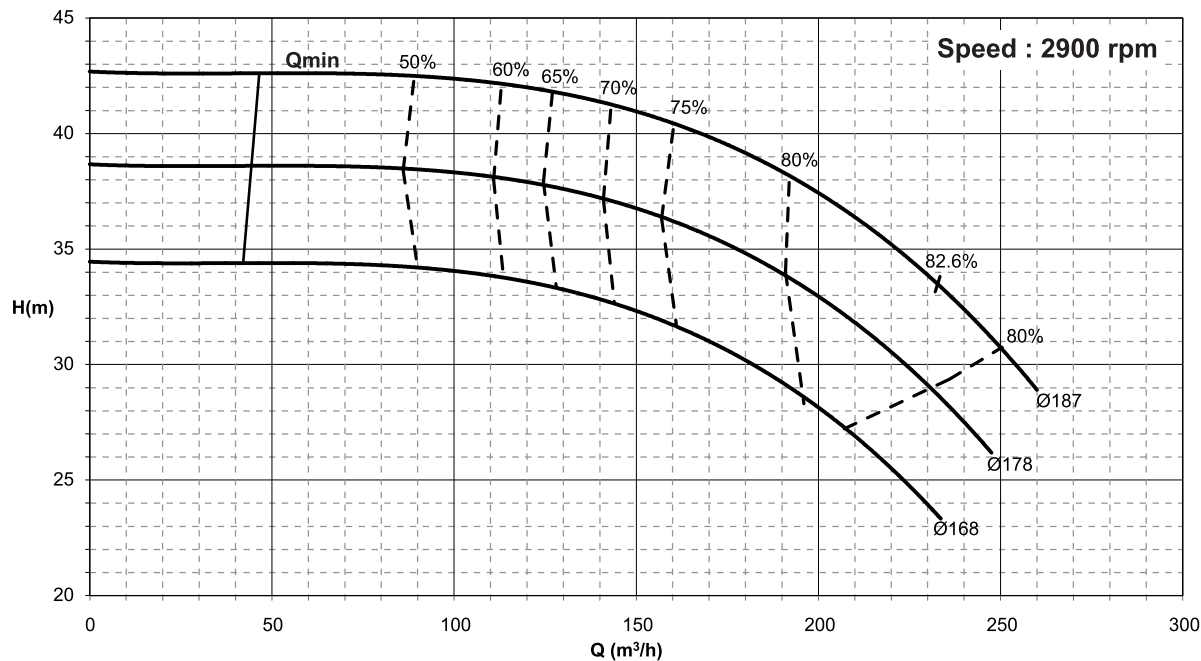




PERFORMANCE CURVE

Pump Model : **ECW-100/160**

Pump Size in mm : **125 x 100**

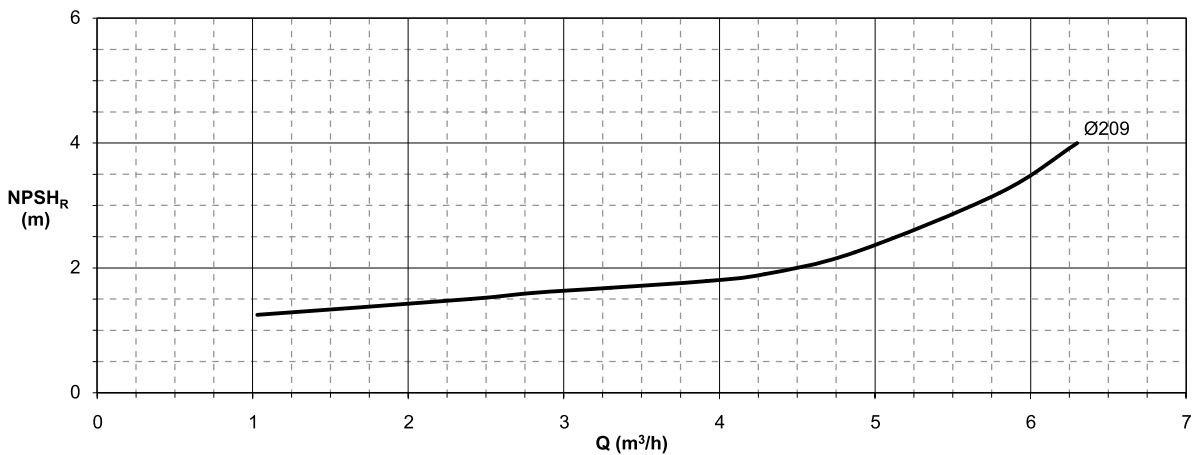
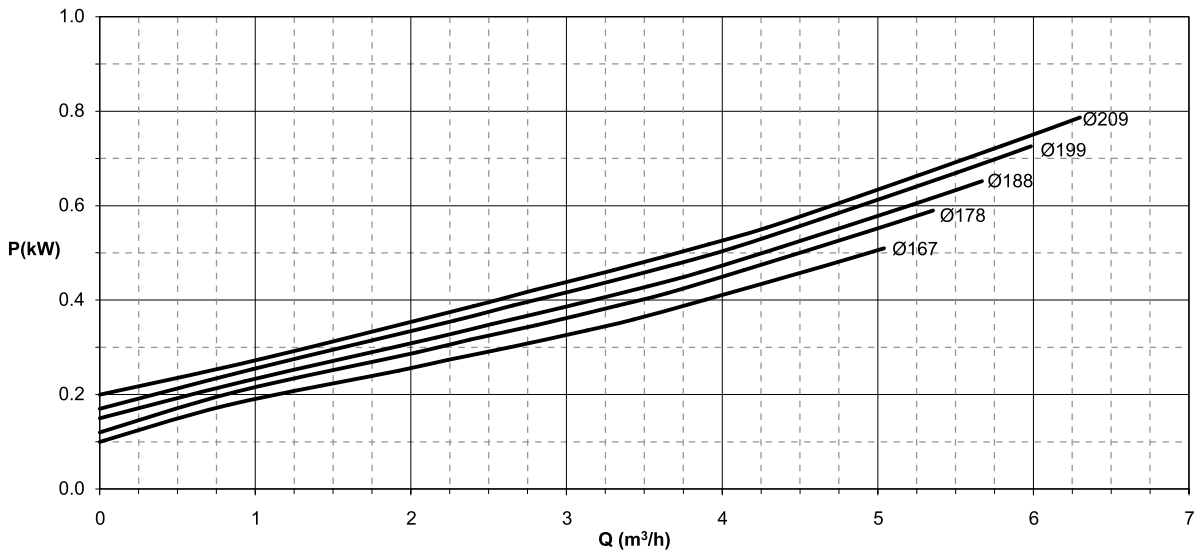
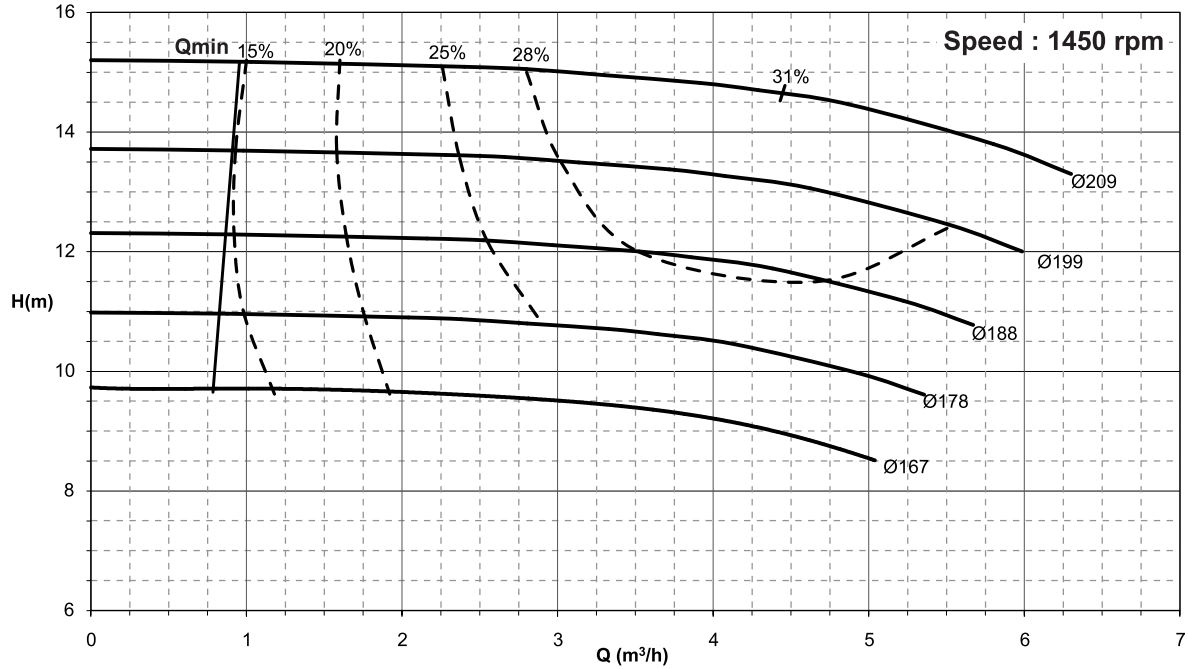




PERFORMANCE CURVE

Pump Model : **ECW-25/200**

Pump Size in mm : **40 x 25**

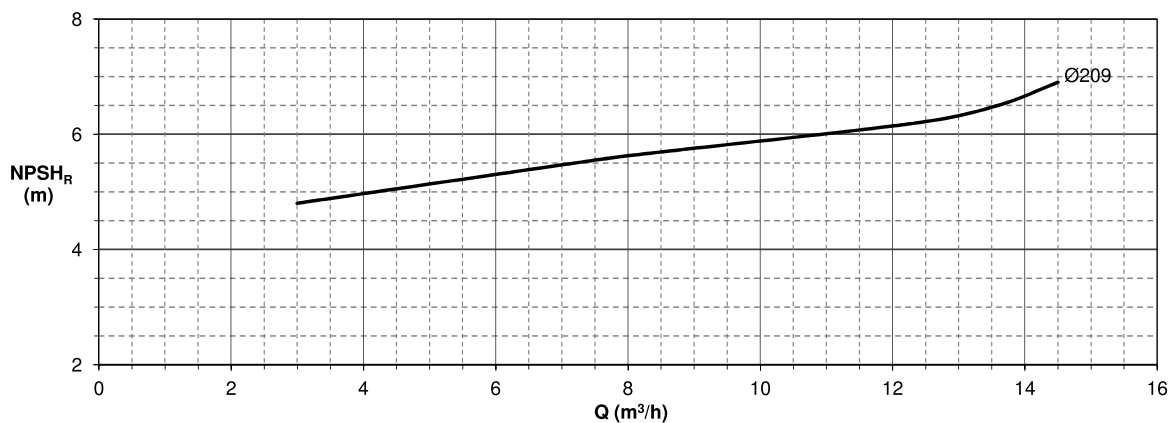
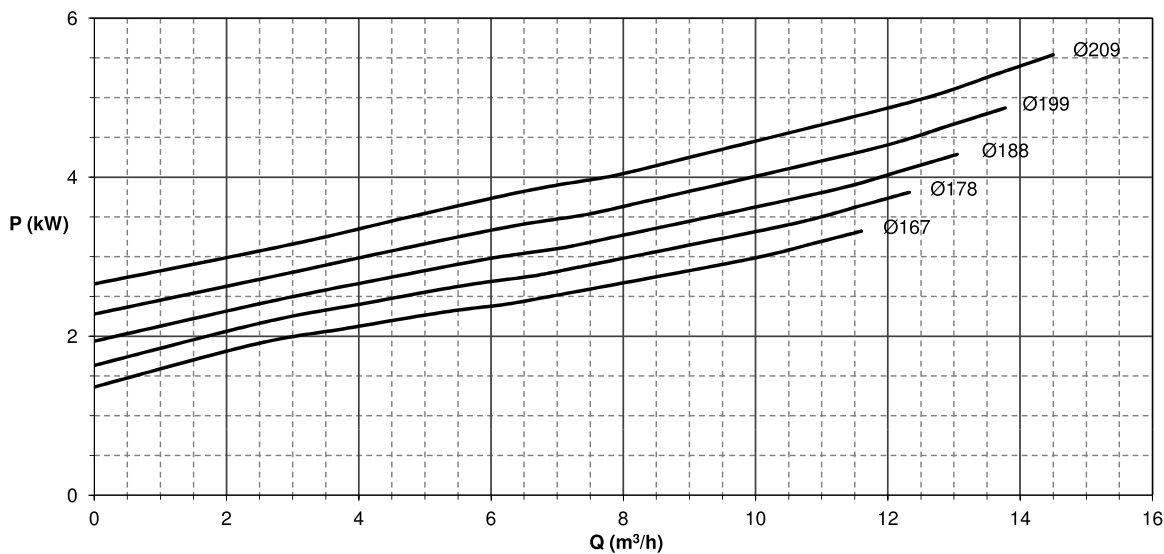
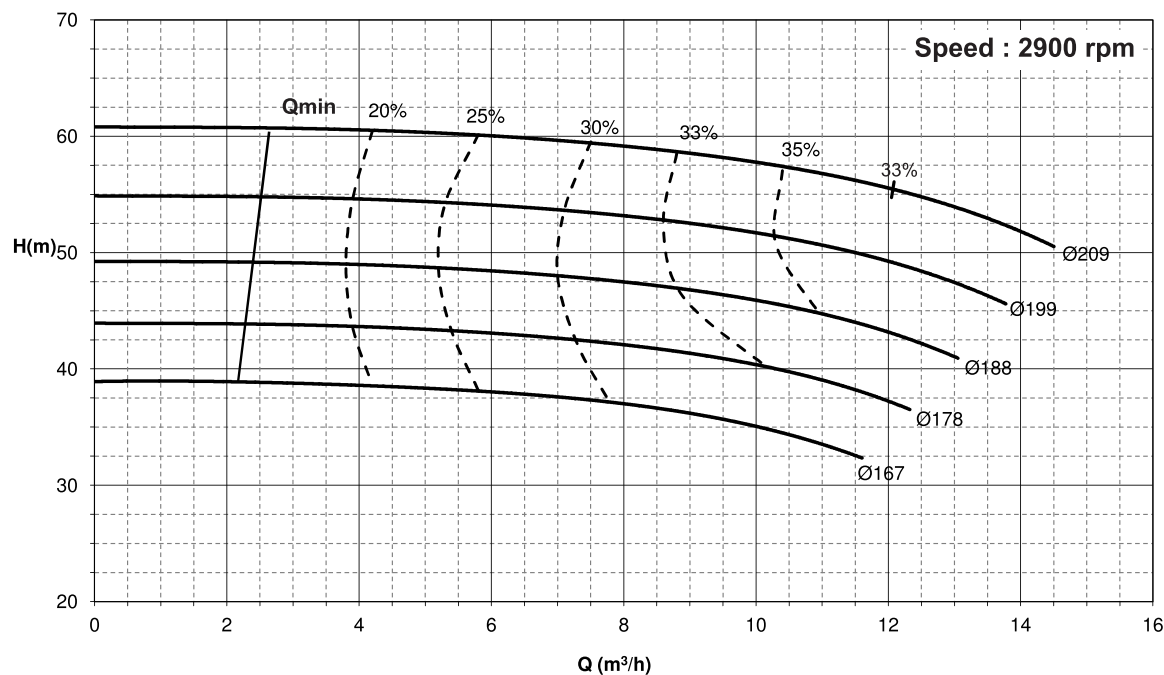




PERFORMANCE CURVE

Pump Model : **ECW-25/200**

Pump Size in mm : **40 x 25**

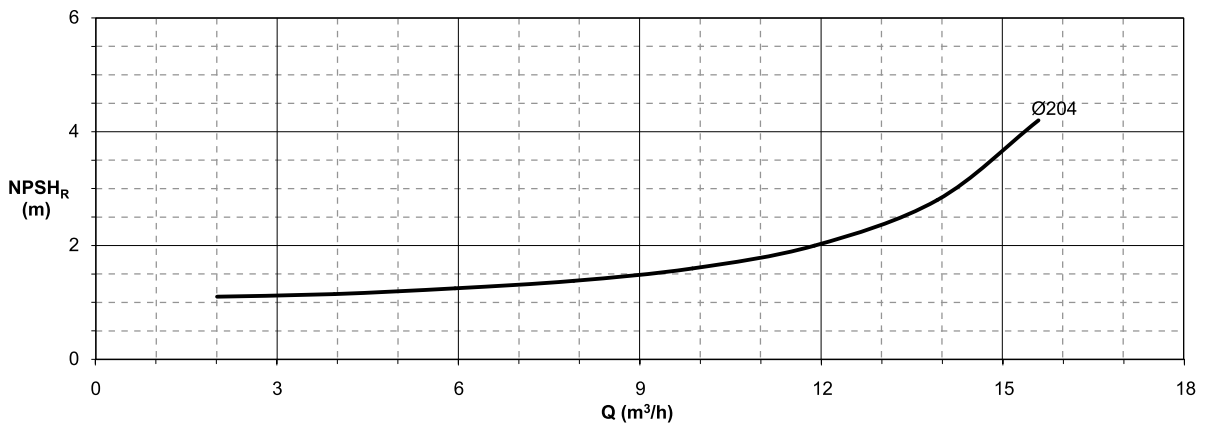
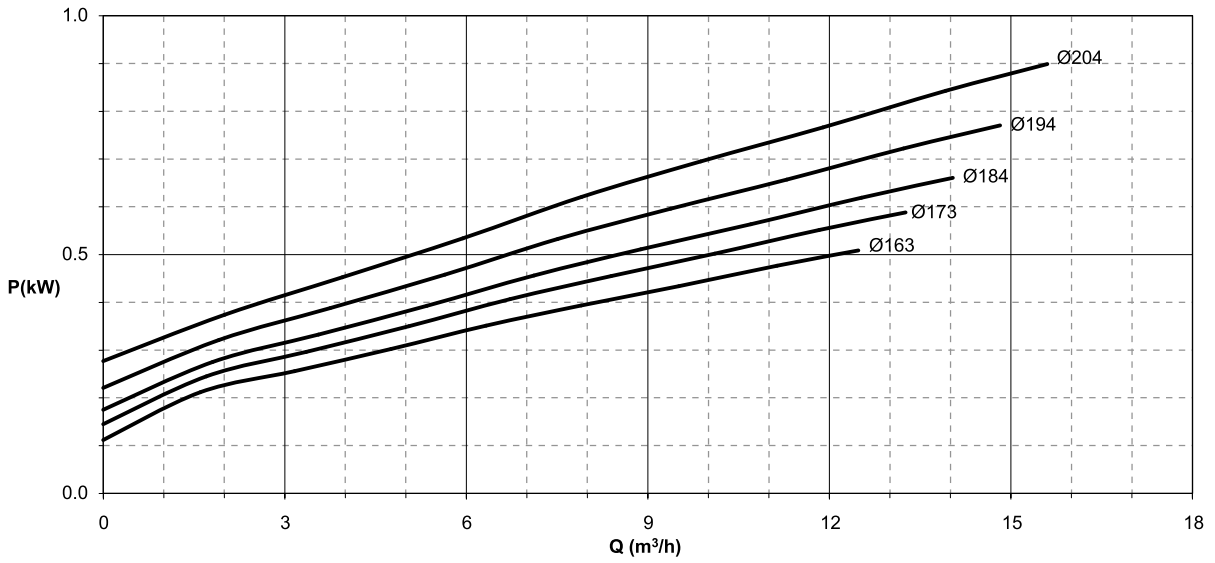
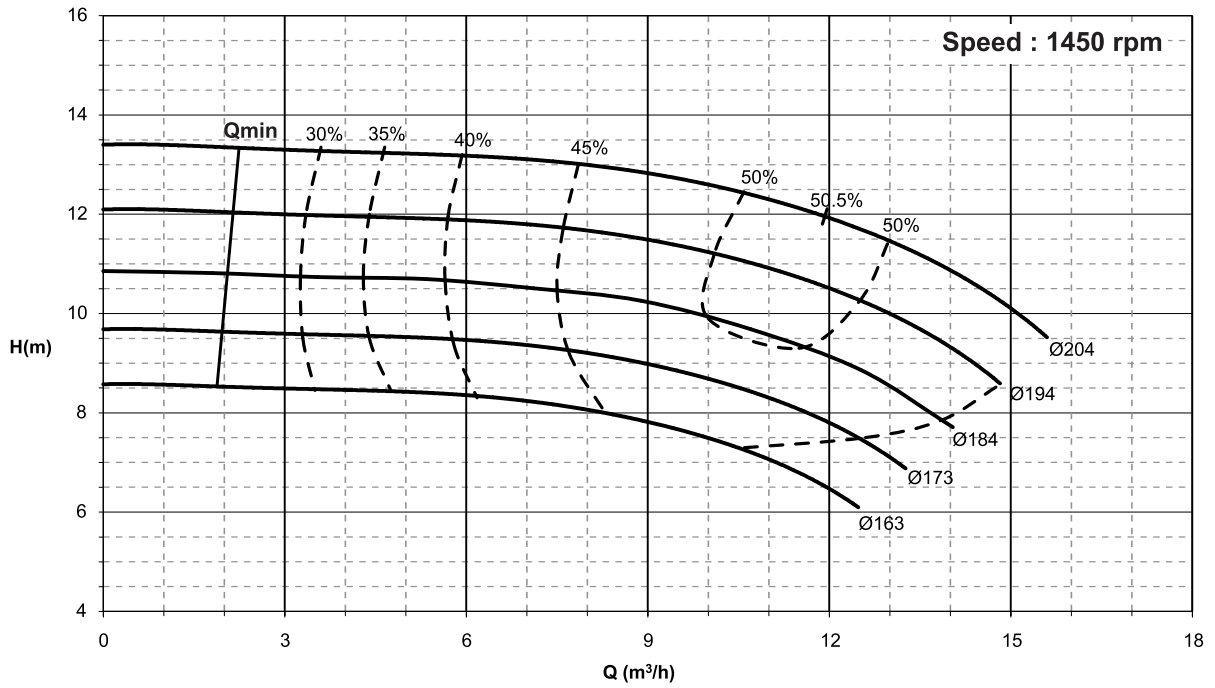




PERFORMANCE CURVE

Pump Model : ECW-32/200E

Pump Size in mm : 50 x 32

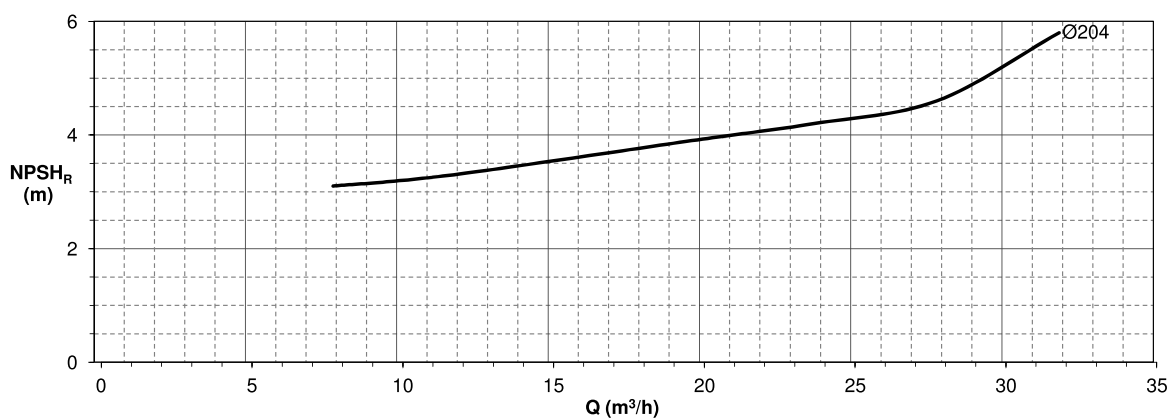
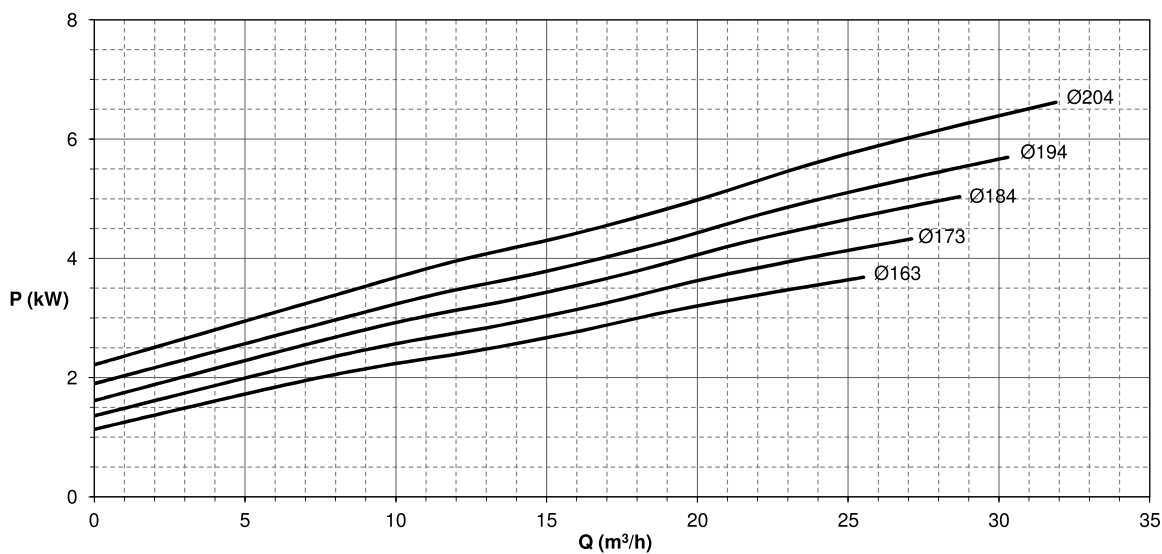
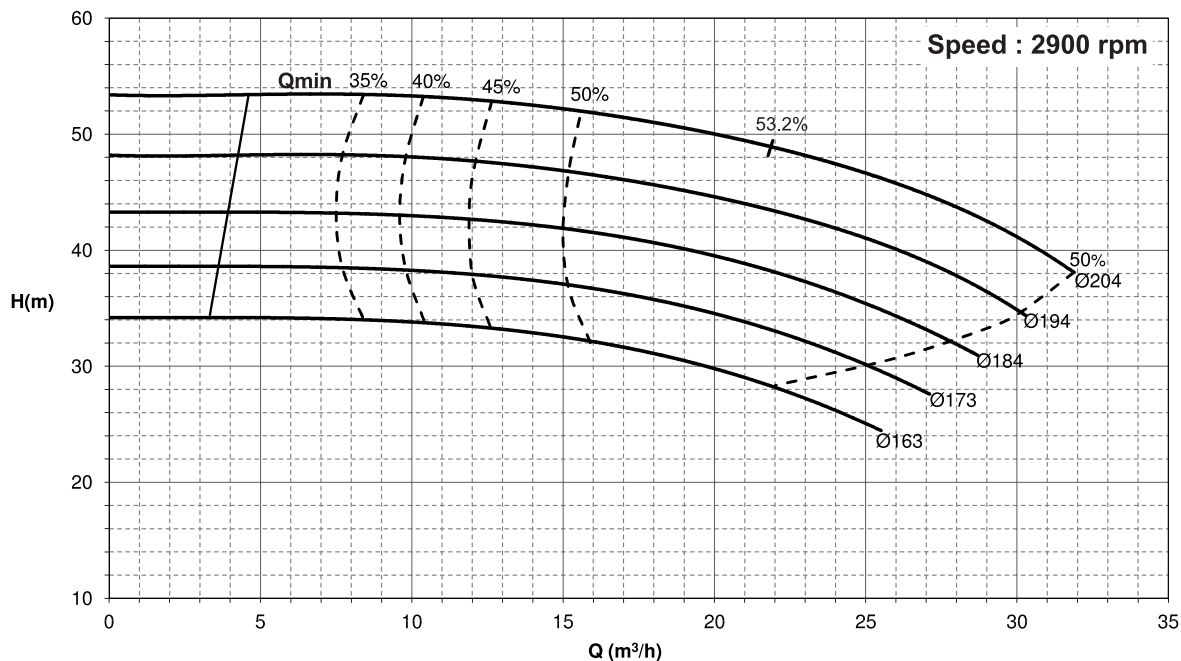




PERFORMANCE CURVE

Pump Model : **ECW-32/200E**

Pump Size in mm : **50 x 32**

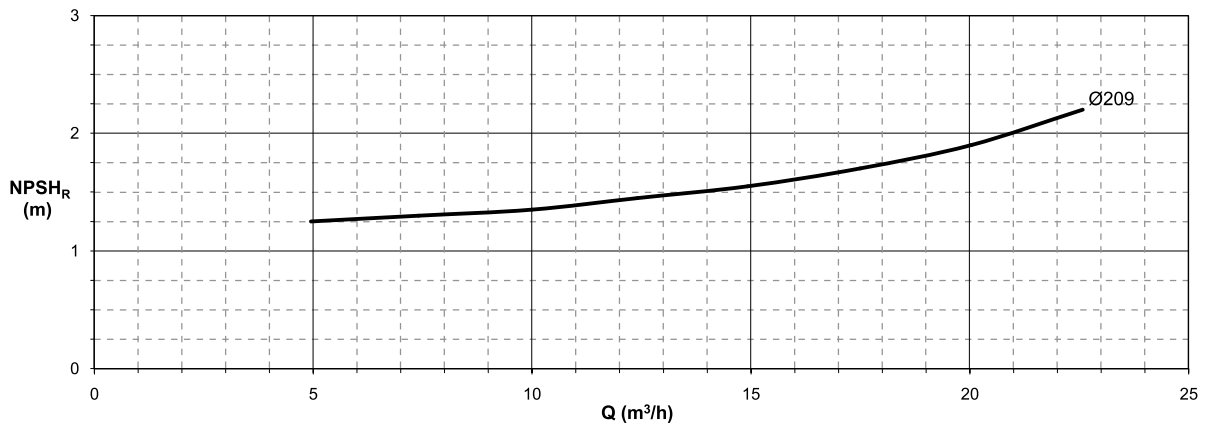
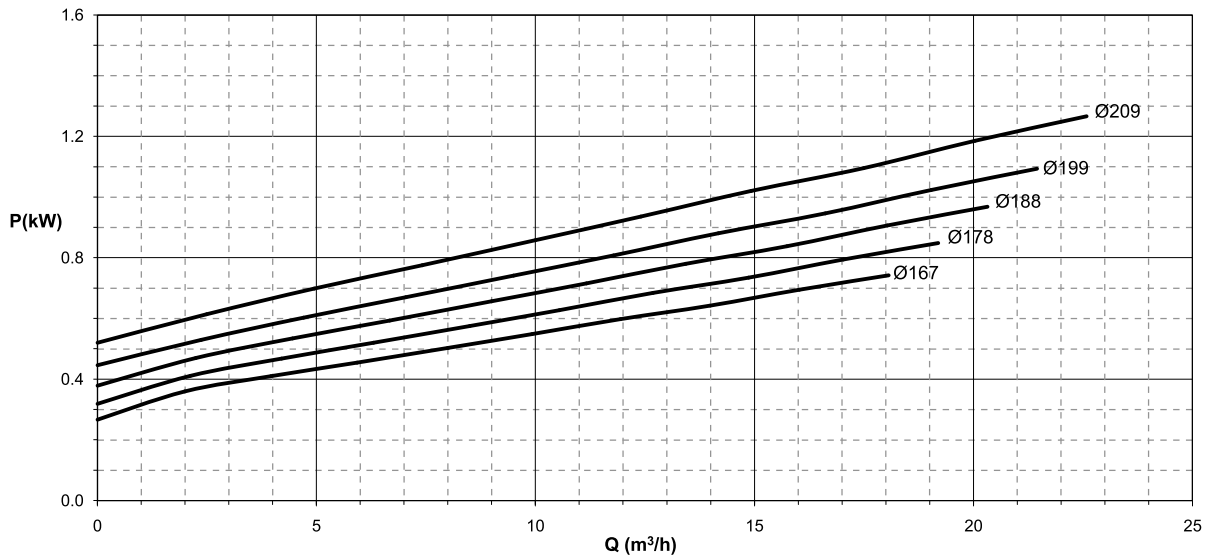
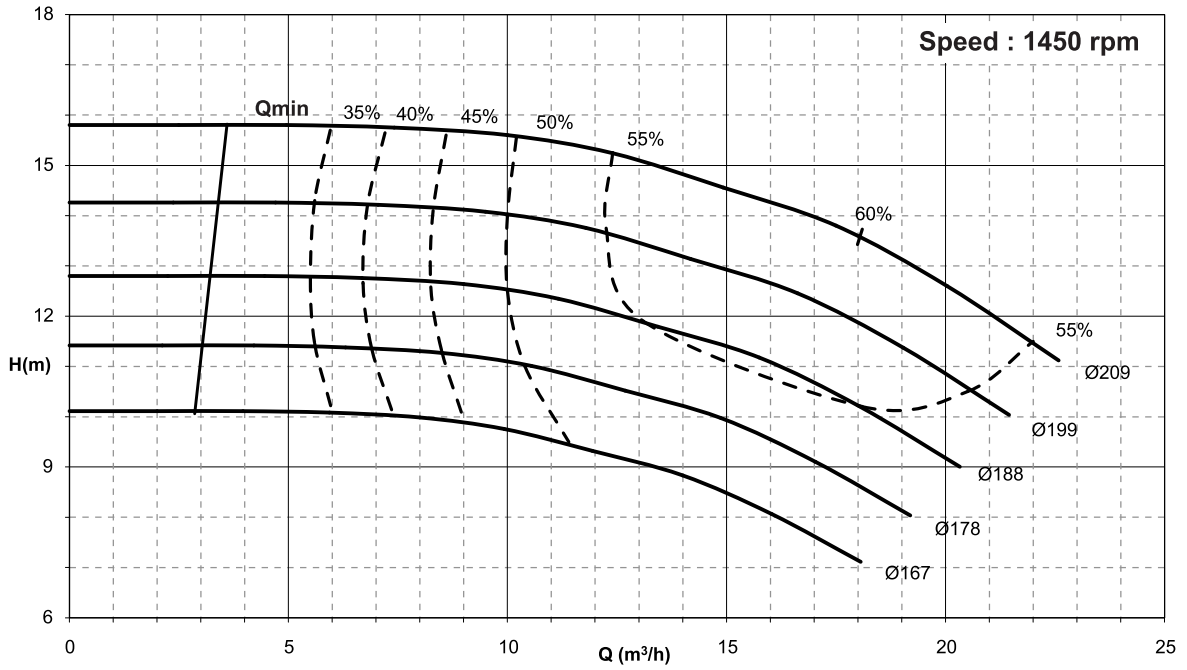




PERFORMANCE CURVE

Pump Model : ECW-32/200

Pump Size in mm : 50 x 32

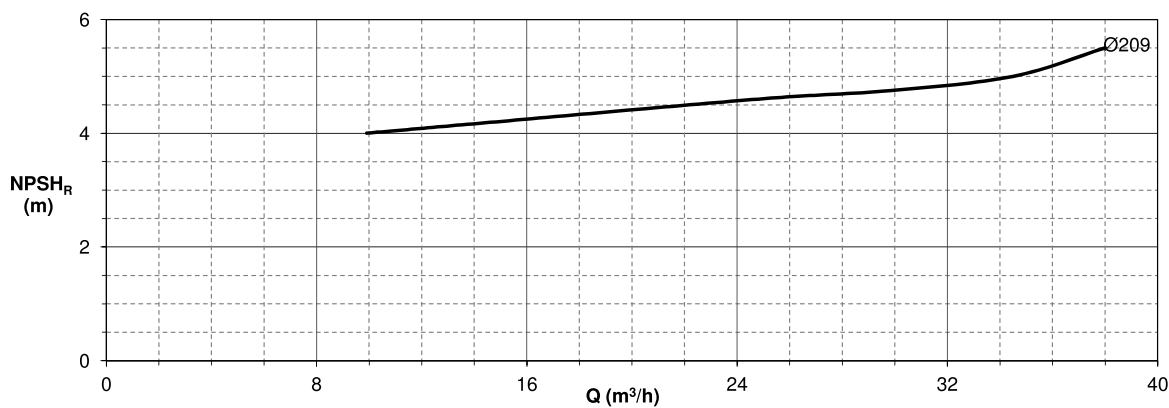
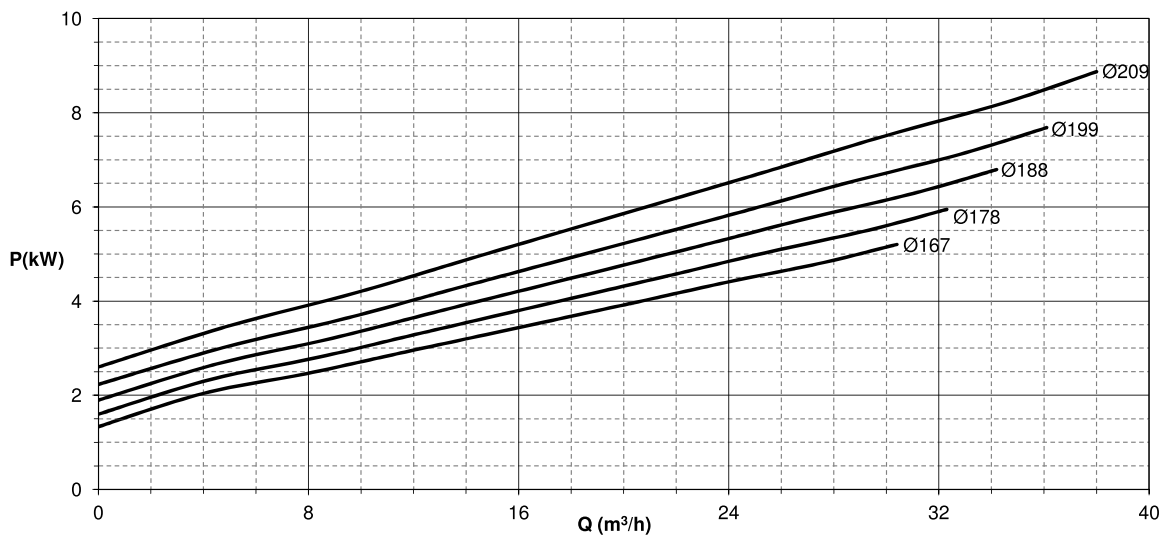
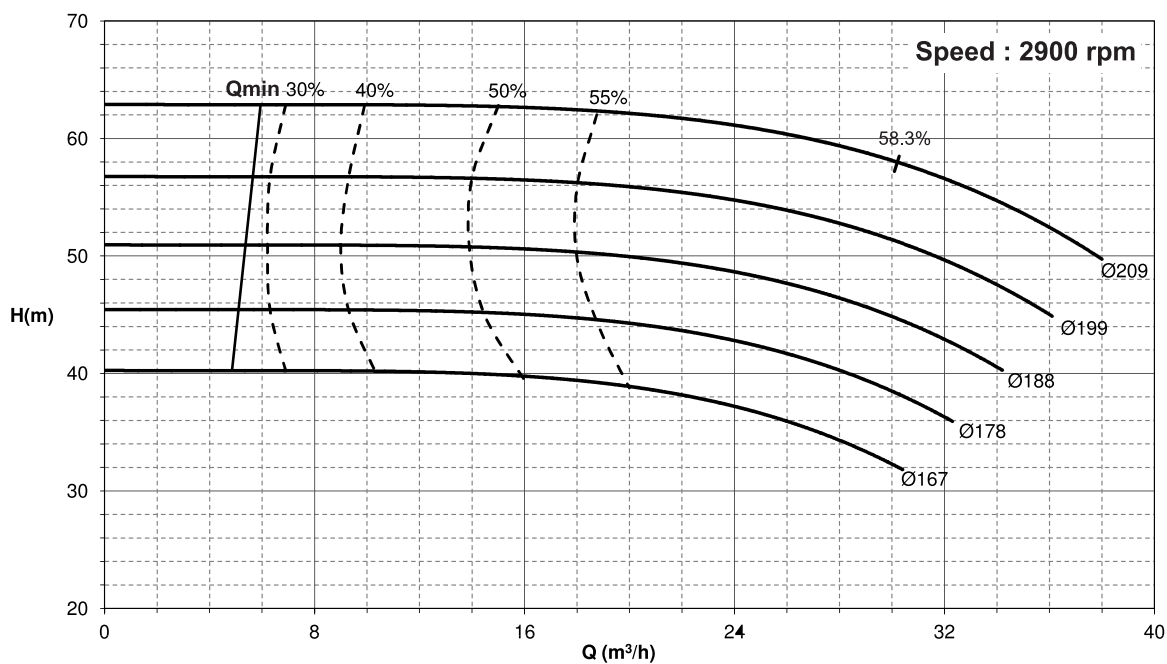




PERFORMANCE CURVE

Pump Model : **ECW-32/200**

Pump Size in mm : **50 x 32**

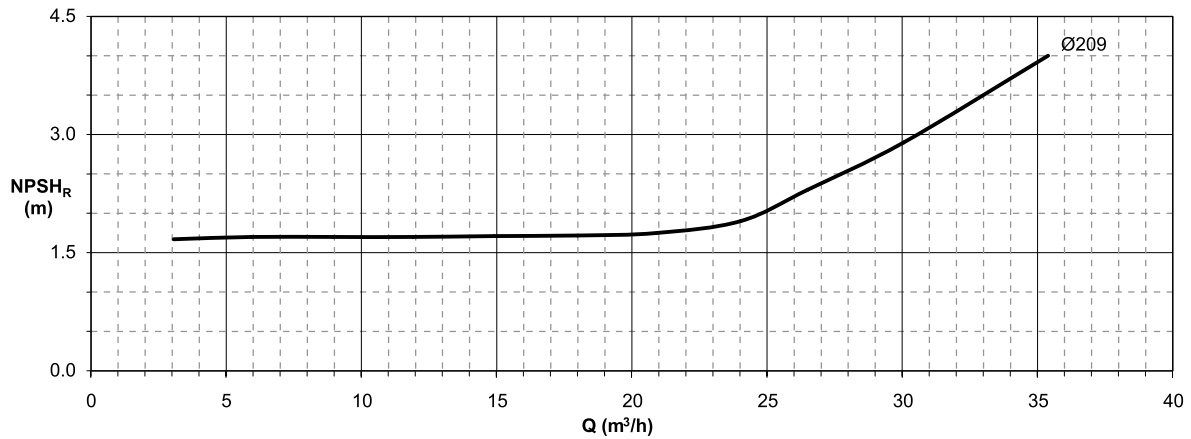
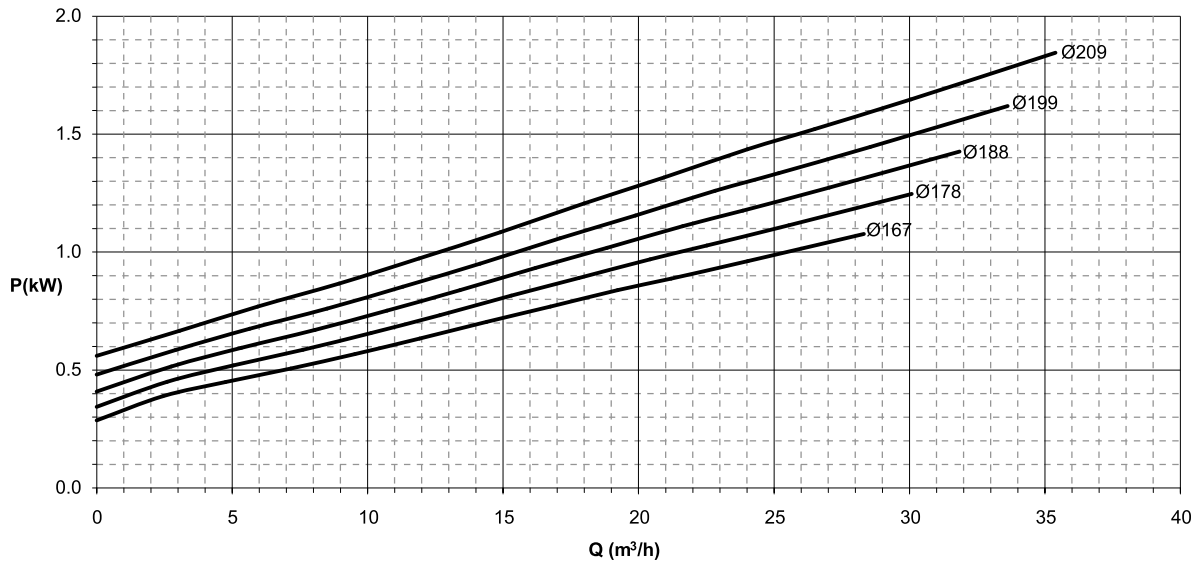
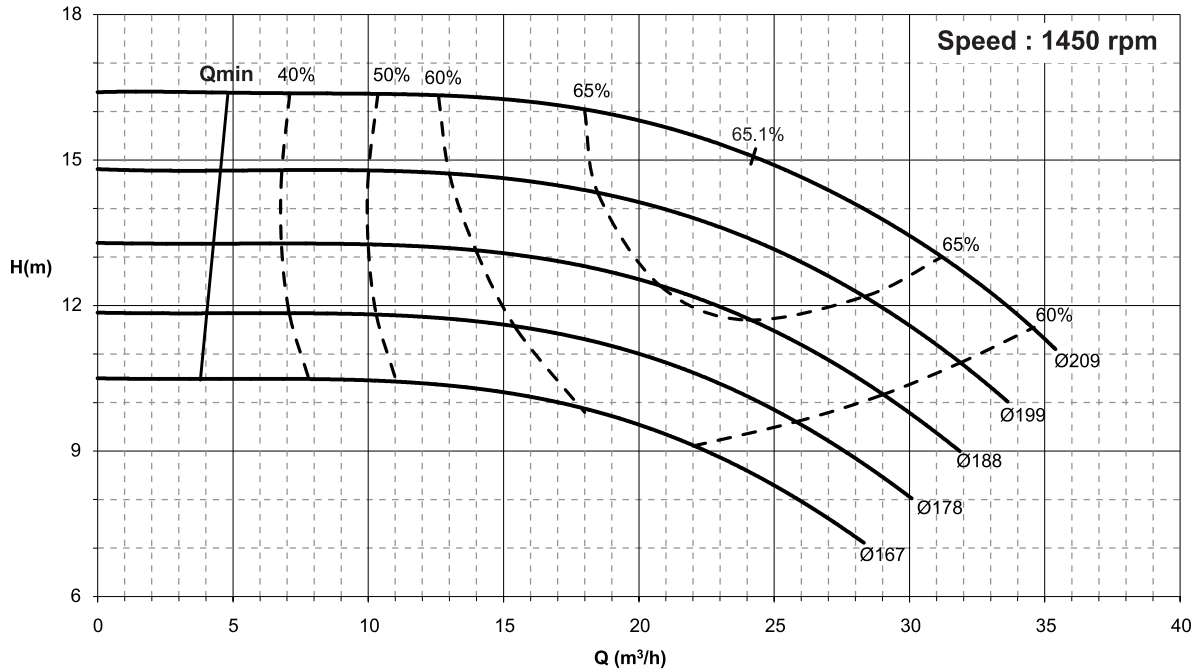




PERFORMANCE CURVE

Pump Model : ECW-40/200

Pump Size in mm : 65 x 40

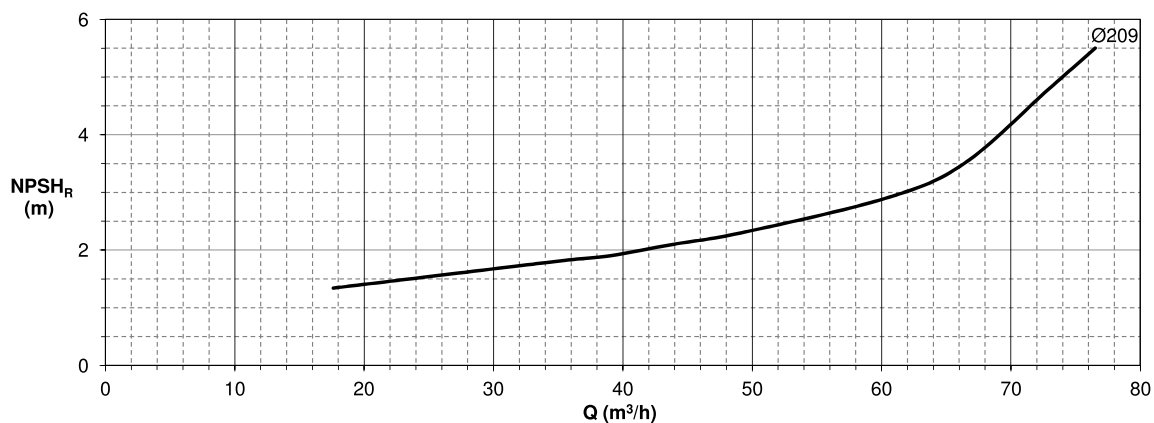
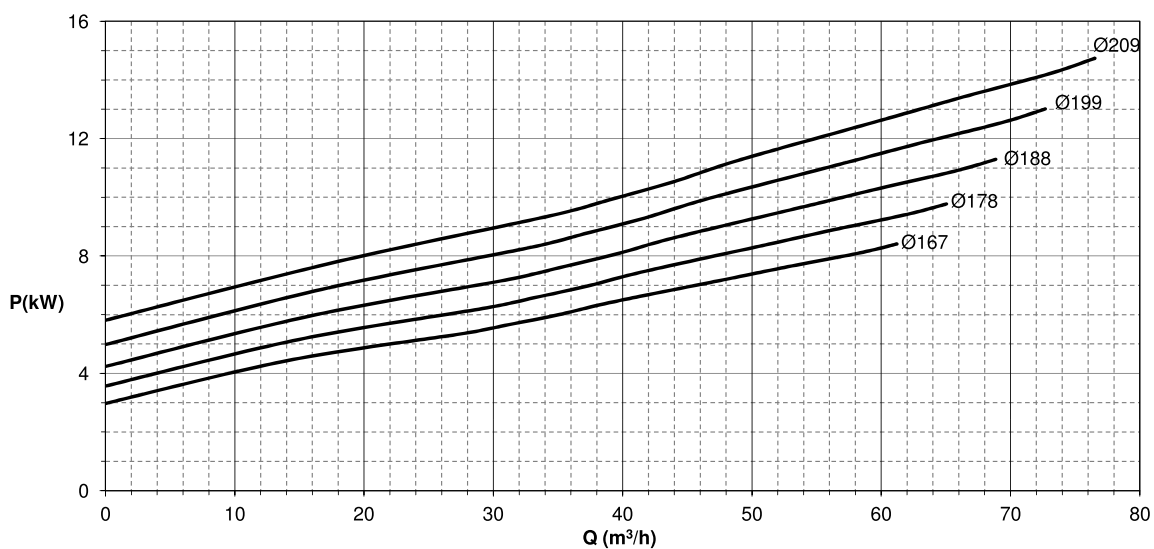
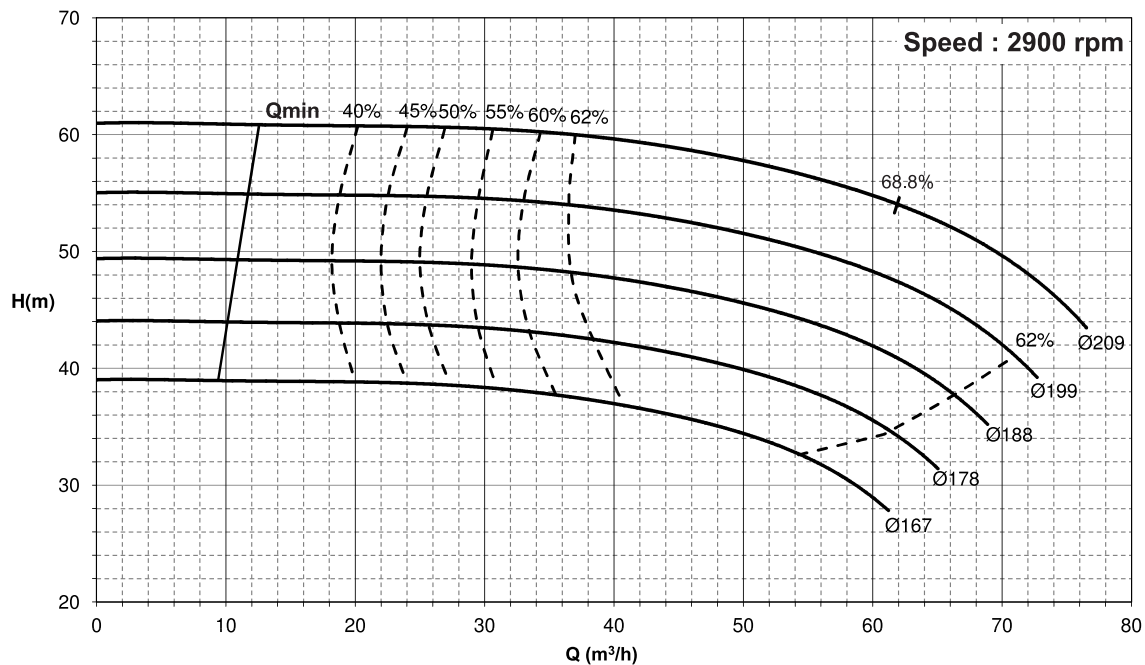




PERFORMANCE CURVE

Pump Model : **ECW-40/200**

Pump Size in mm : **65 x 40**

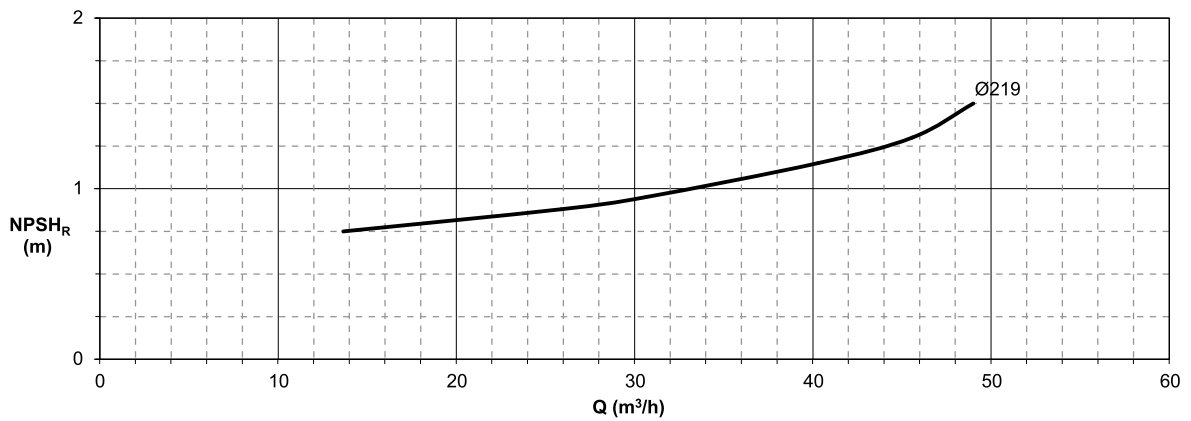
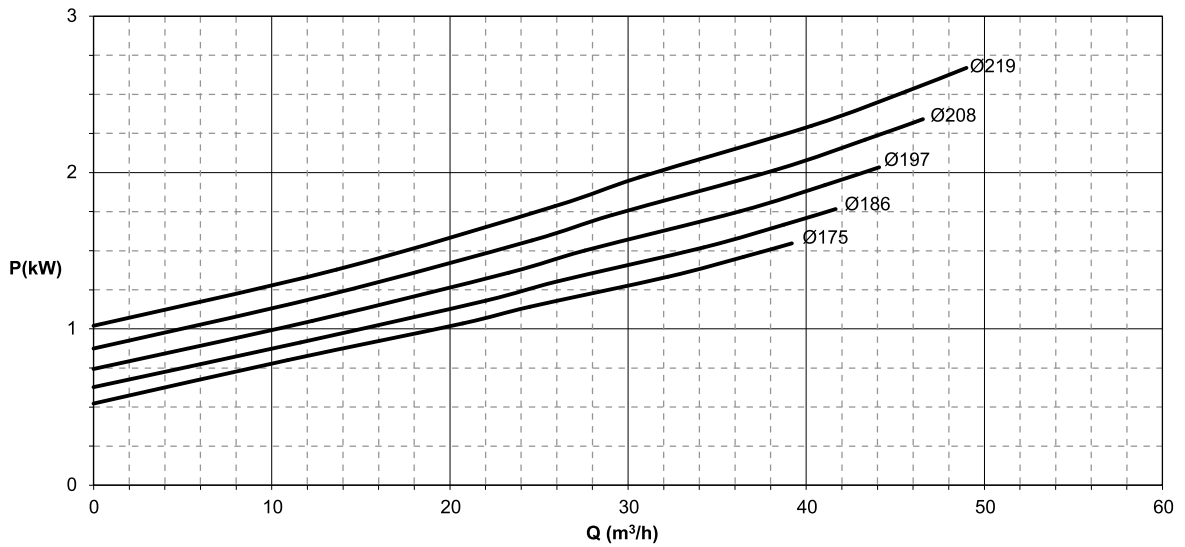
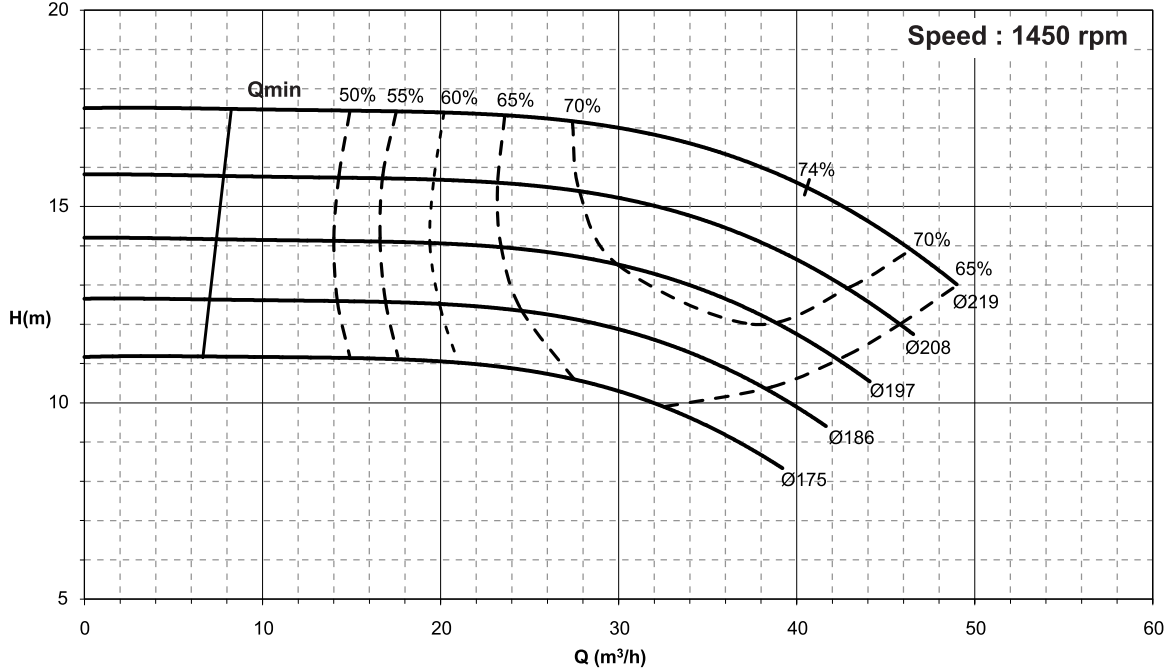




PERFORMANCE CURVE

Pump Model : ECW-50/200

Pump Size in mm : 65 x 50

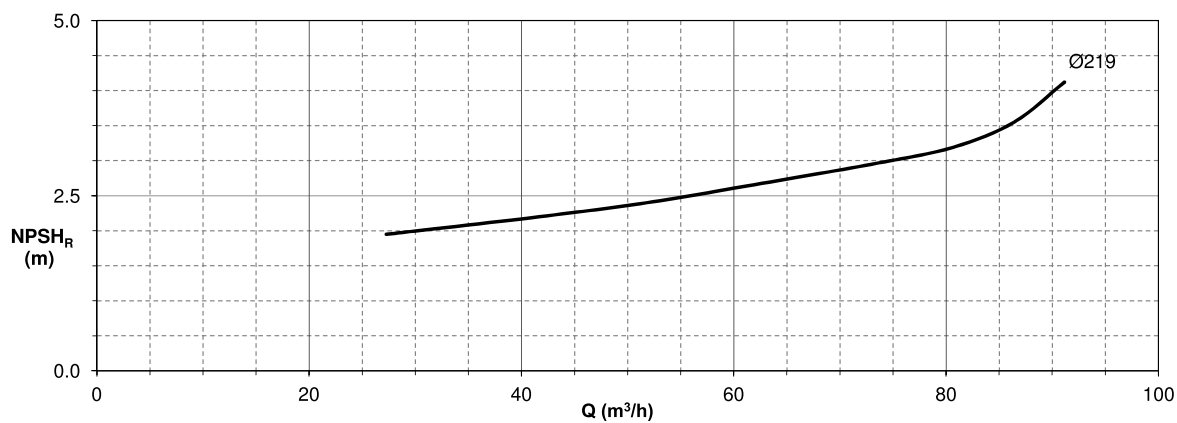
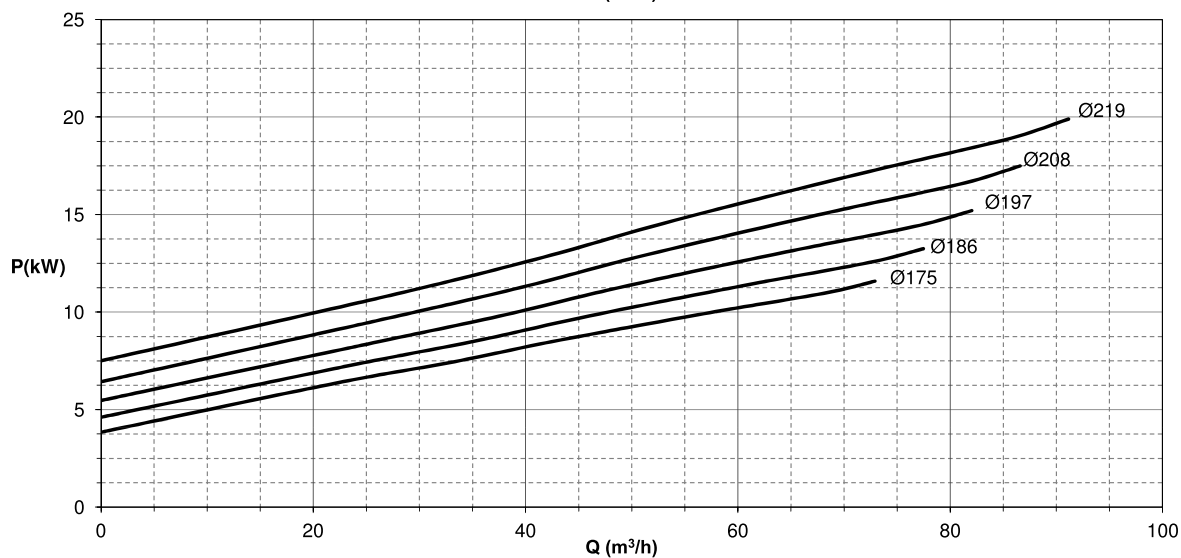
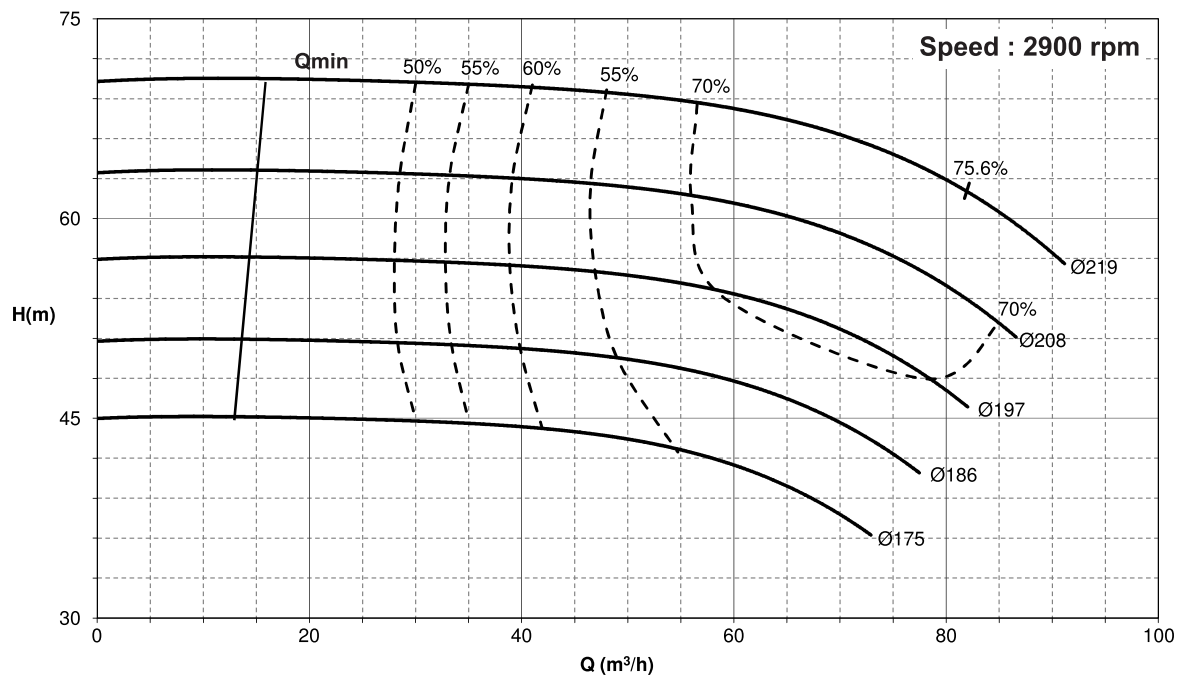




PERFORMANCE CURVE

Pump Model : **ECW-50/200**

Pump Size in mm : **65 x 50**

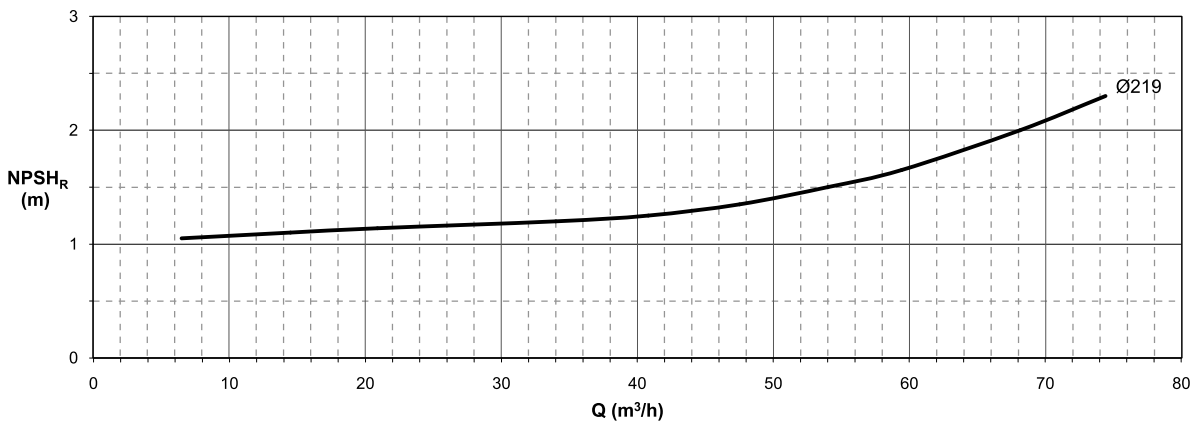
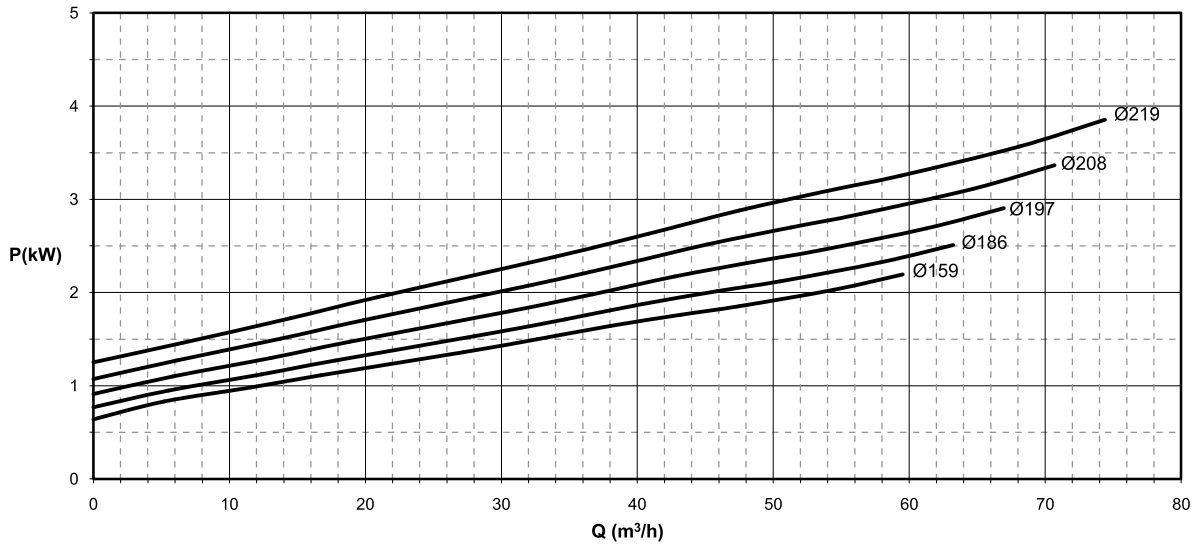
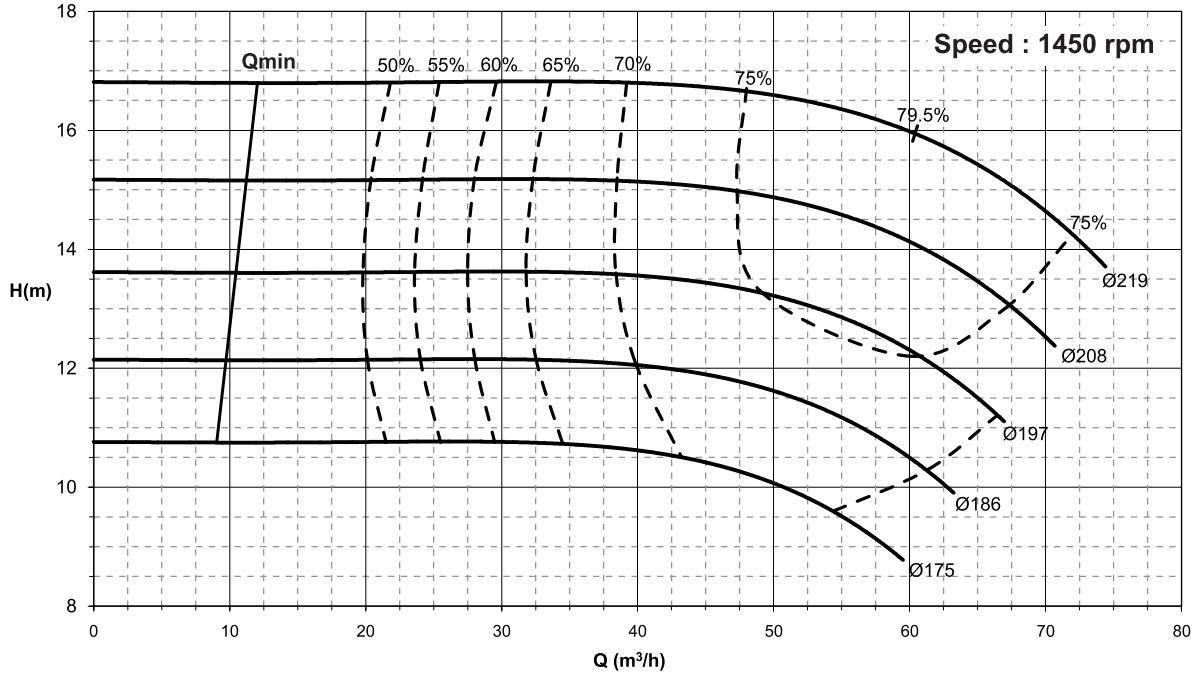




PERFORMANCE CURVE

Pump Model : ECW-65/200

Pump Size in mm : 80 x 65

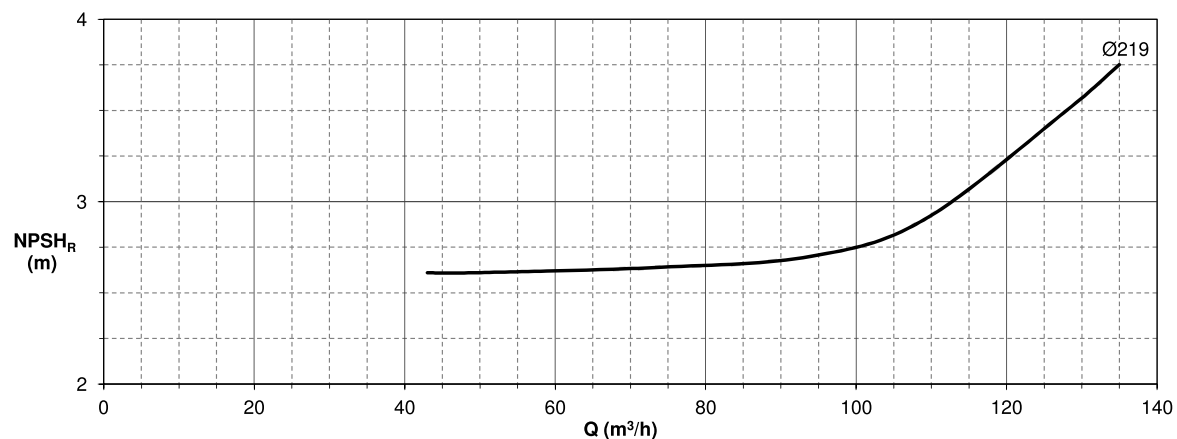
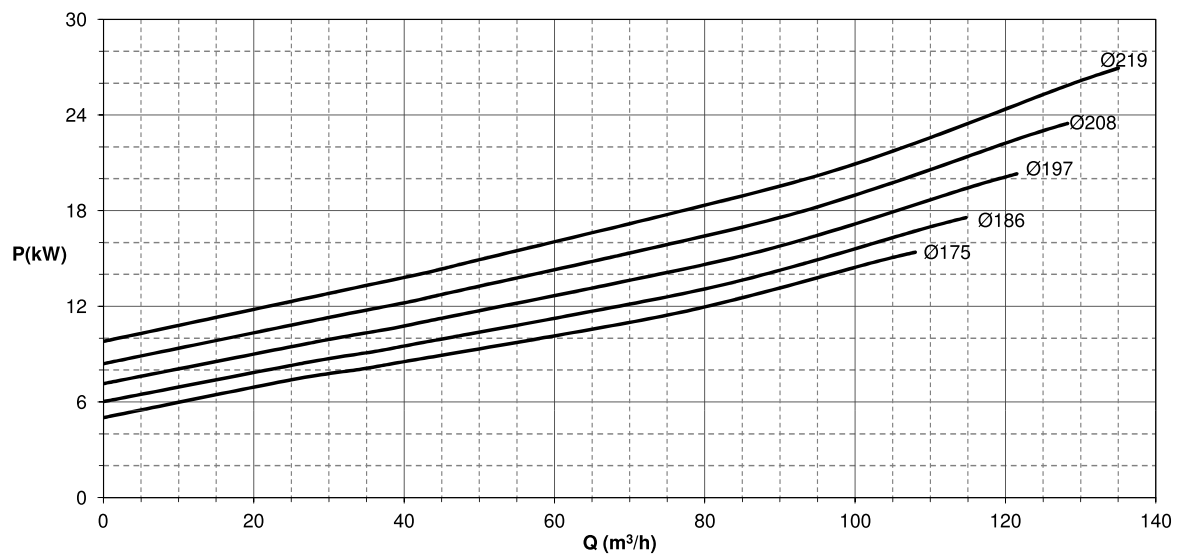
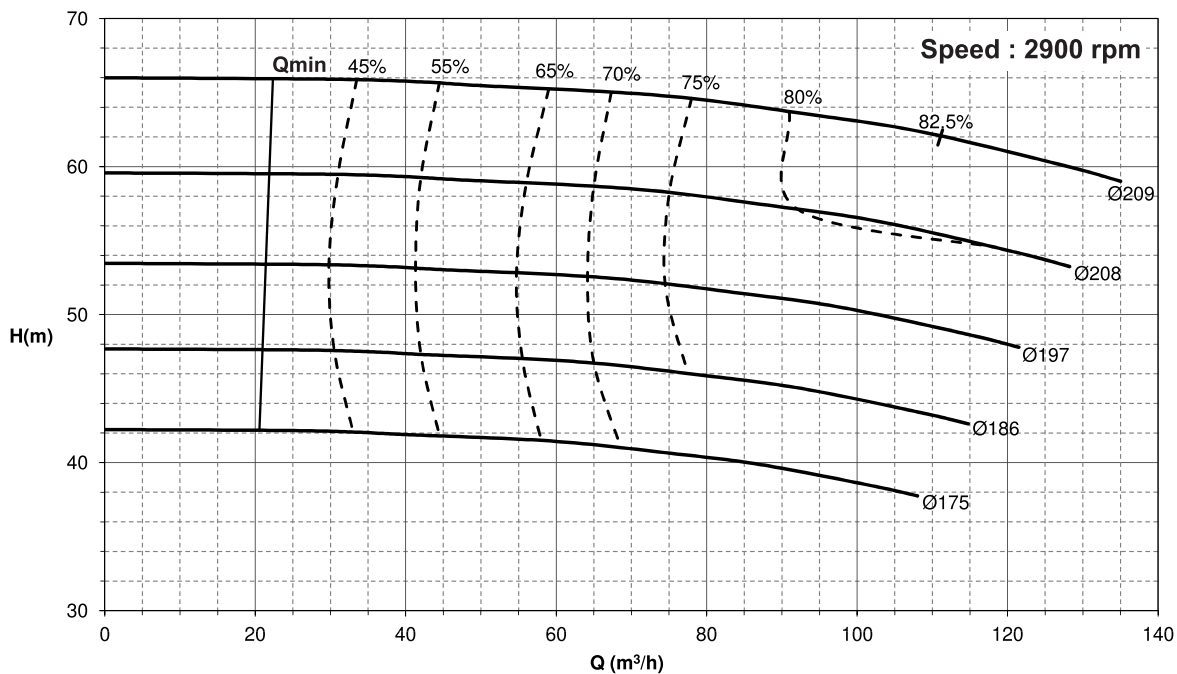




PERFORMANCE CURVE

Pump Model : **ECW-65/200**

Pump Size in mm : **80 x 65**

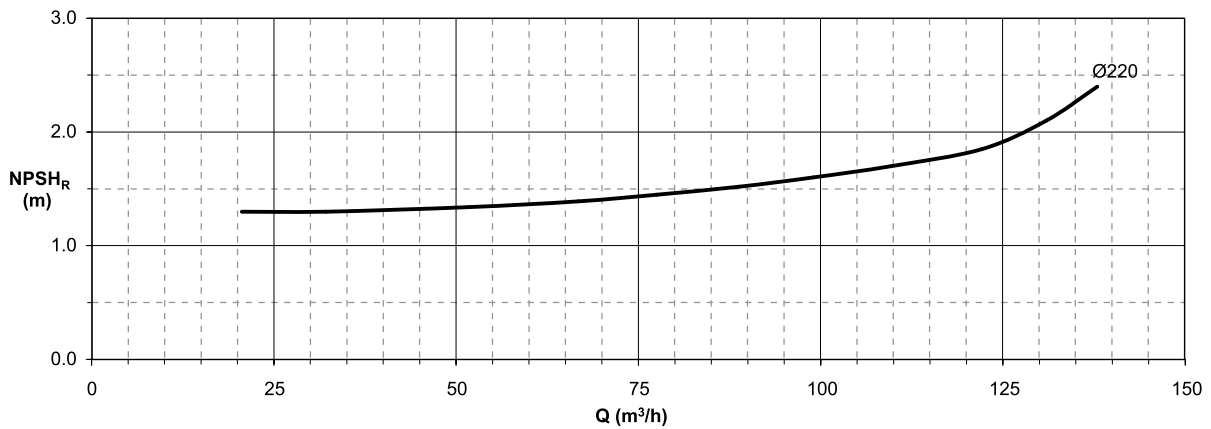
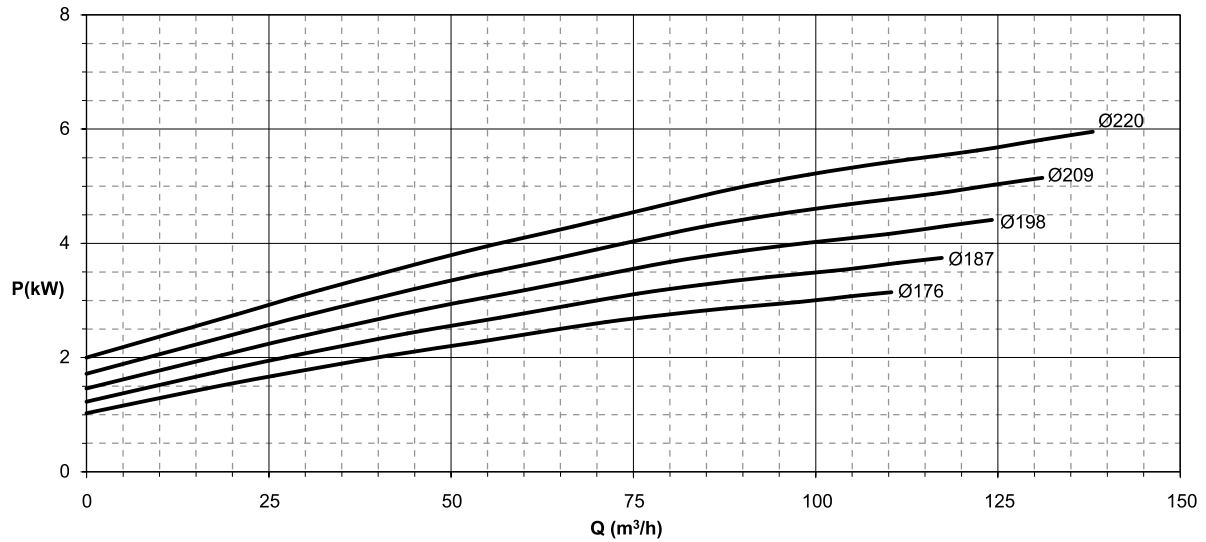
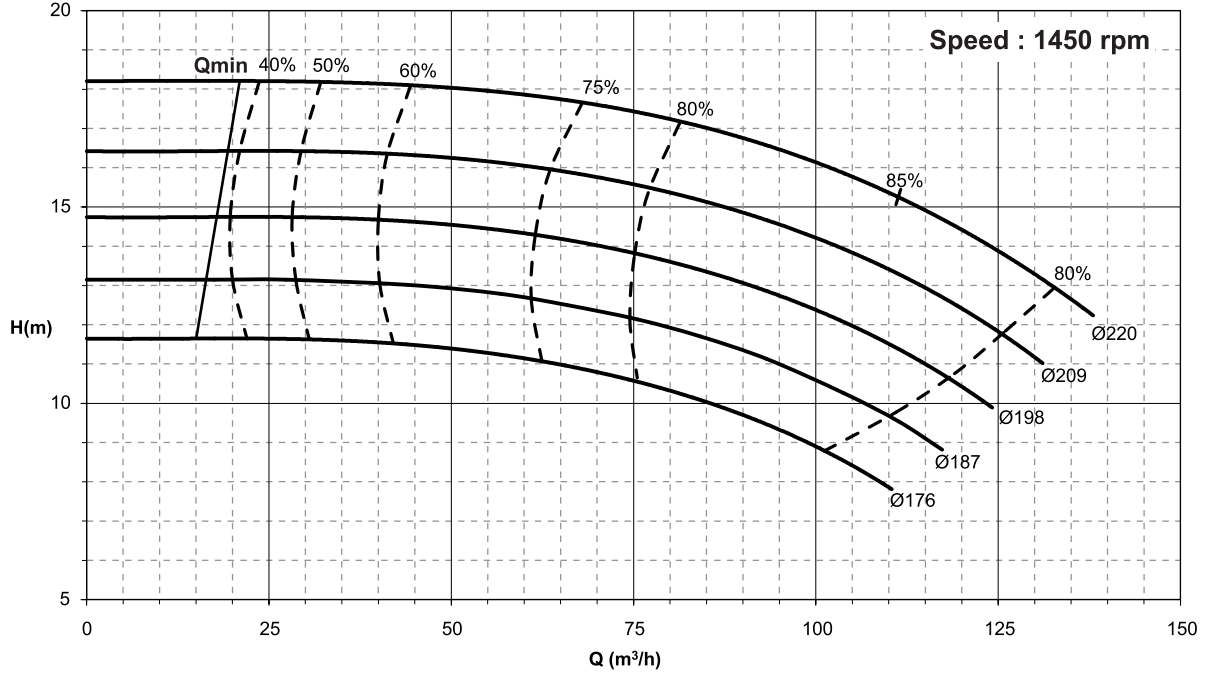




PERFORMANCE CURVE

Pump Model : ECW-80/200

Pump Size in mm : 100 x 80

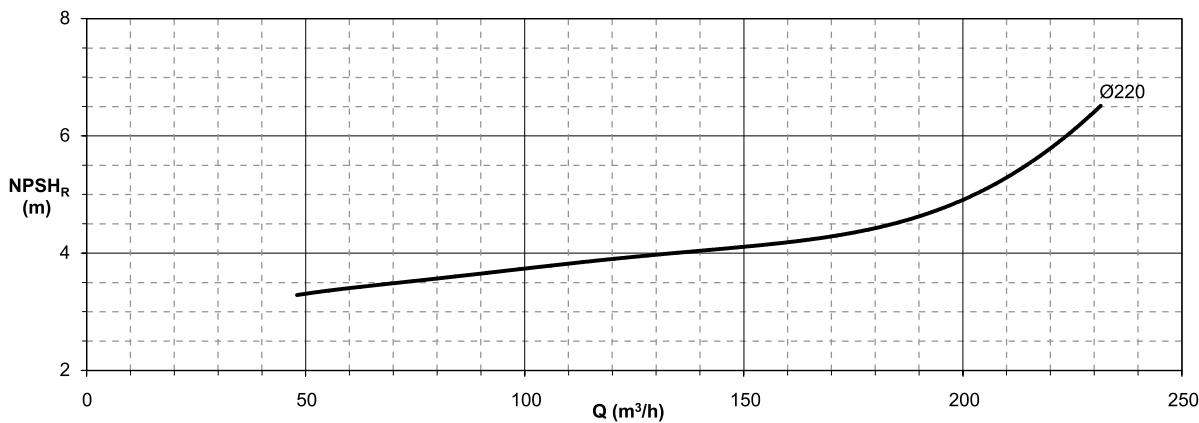
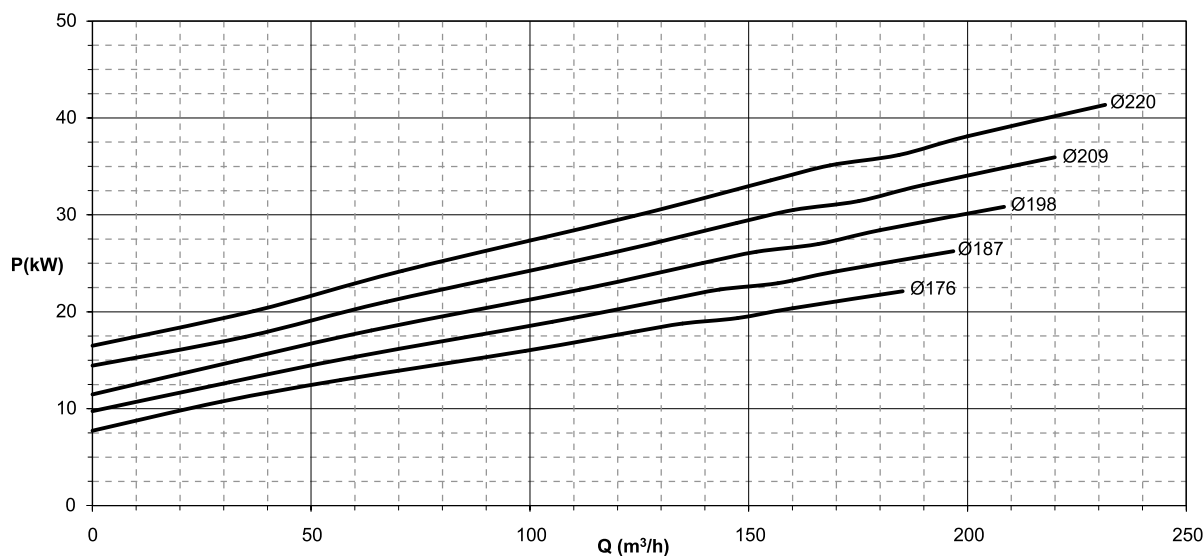
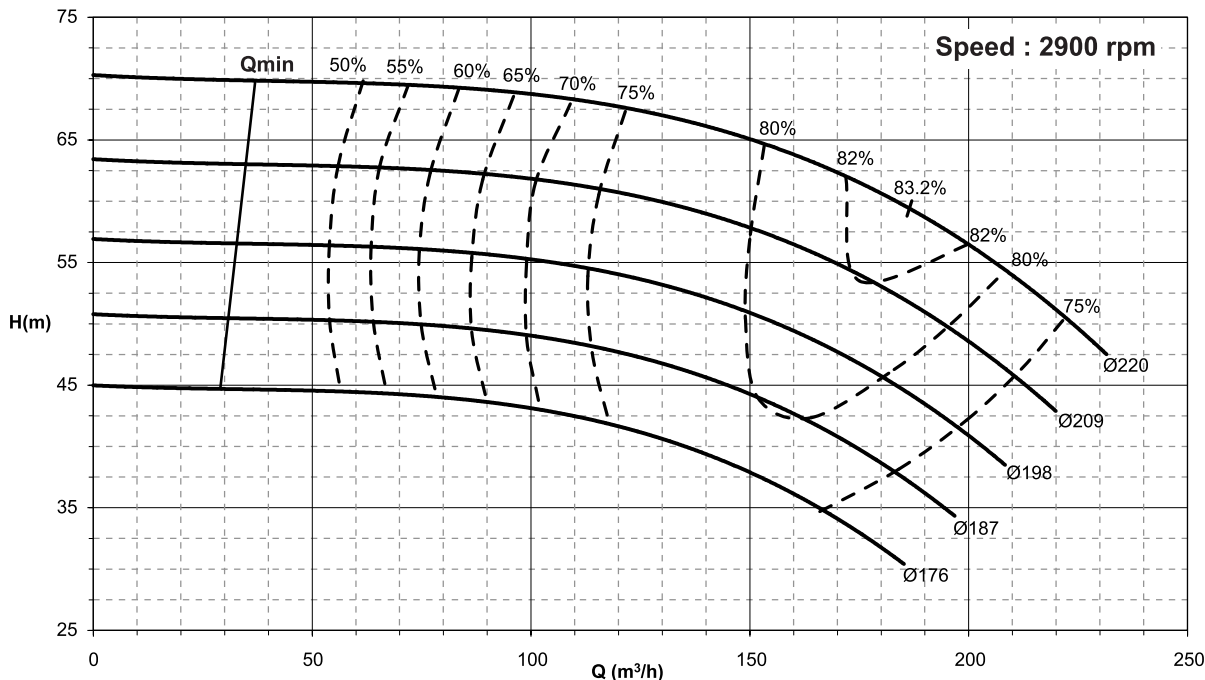




PERFORMANCE CURVE

Pump Model : **ECW-80/200**

Pump Size in mm : **100 x 80**

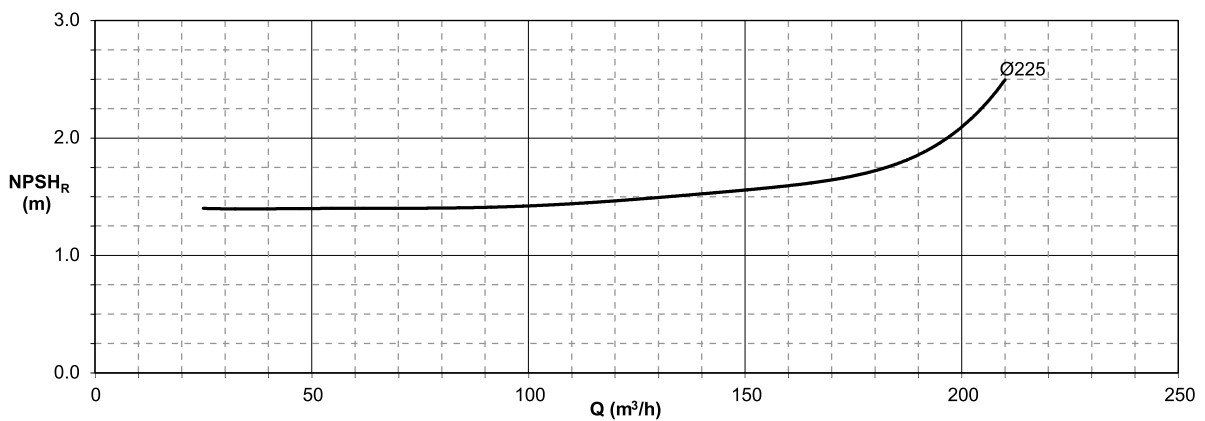
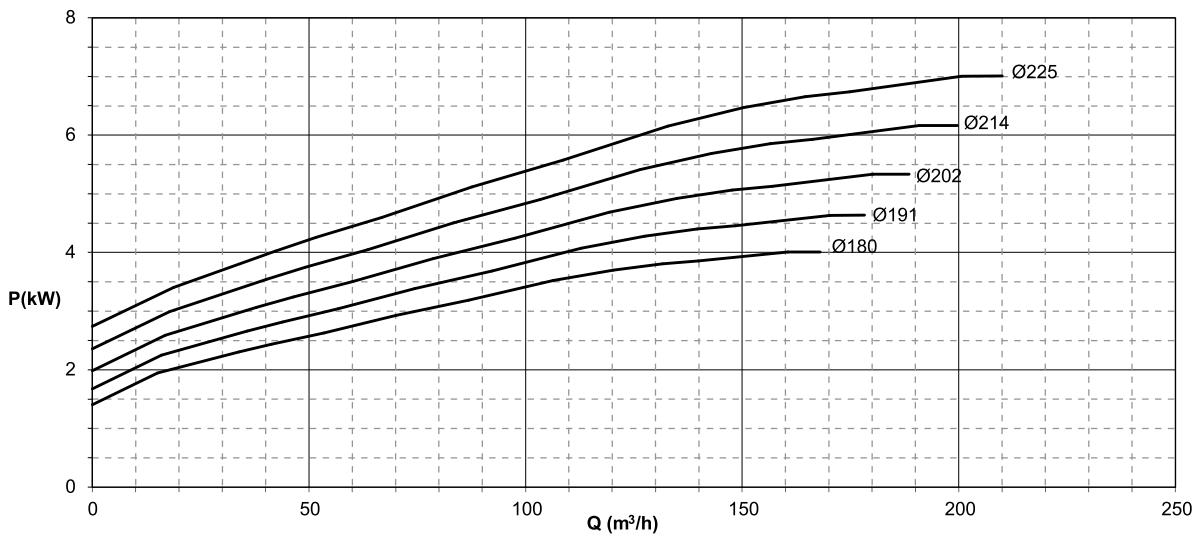
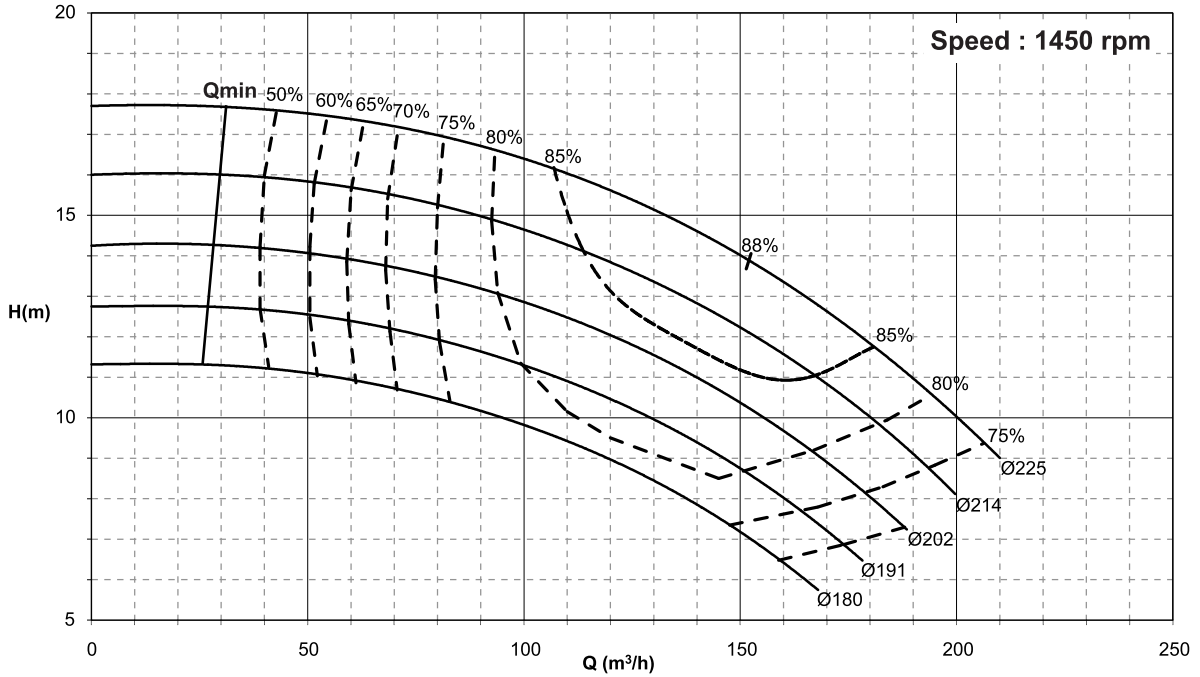




PERFORMANCE CURVE

Pump Model : **ECW-100/200**

Pump Size in mm : **125 x 100**

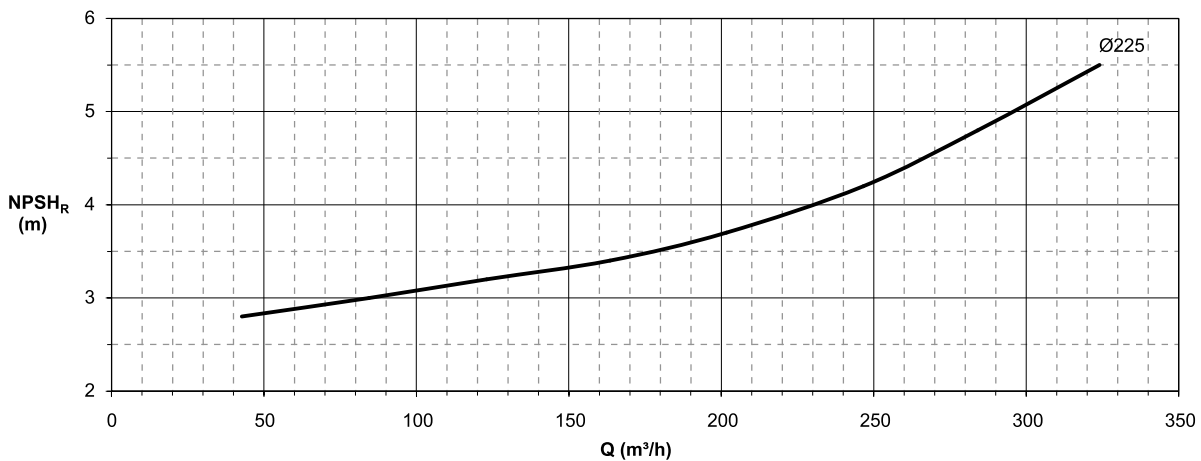
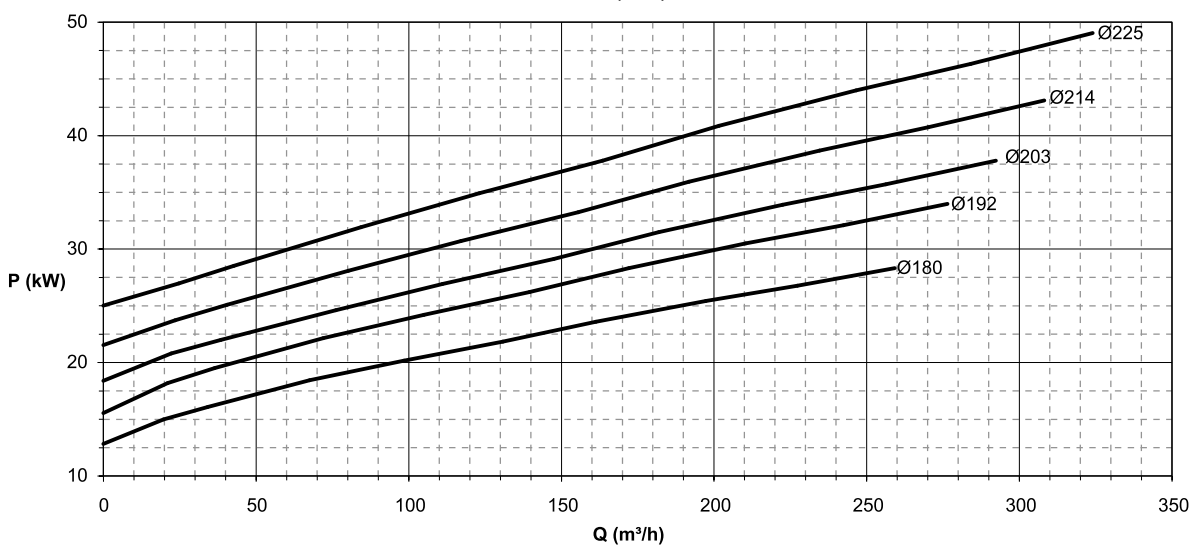
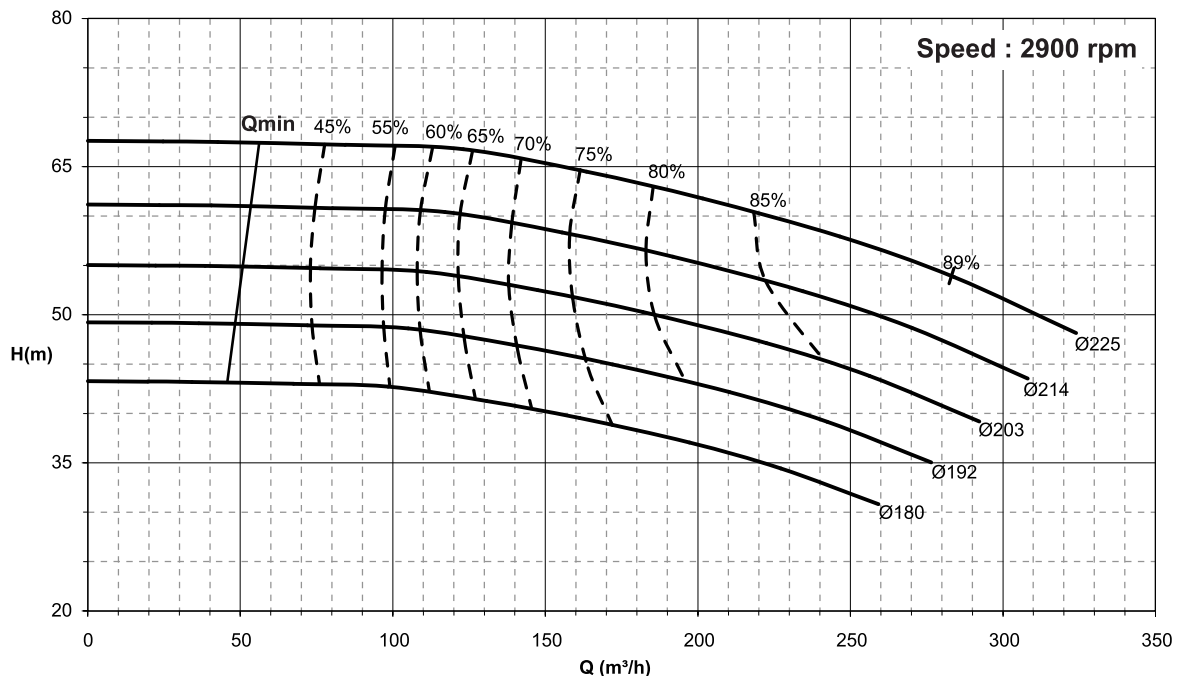




PERFORMANCE CURVE

Pump Model : **ECW-100/200**

Pump Size in mm : **125 x 100**

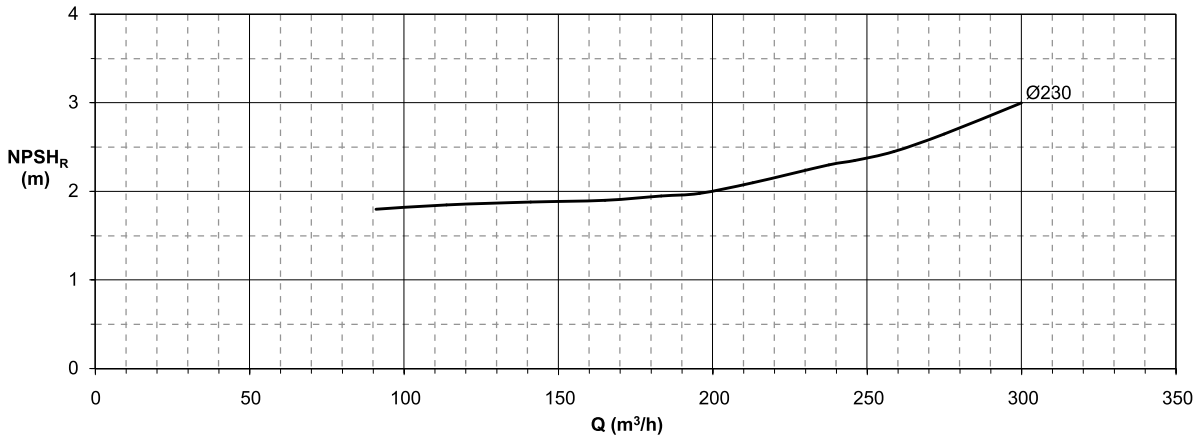
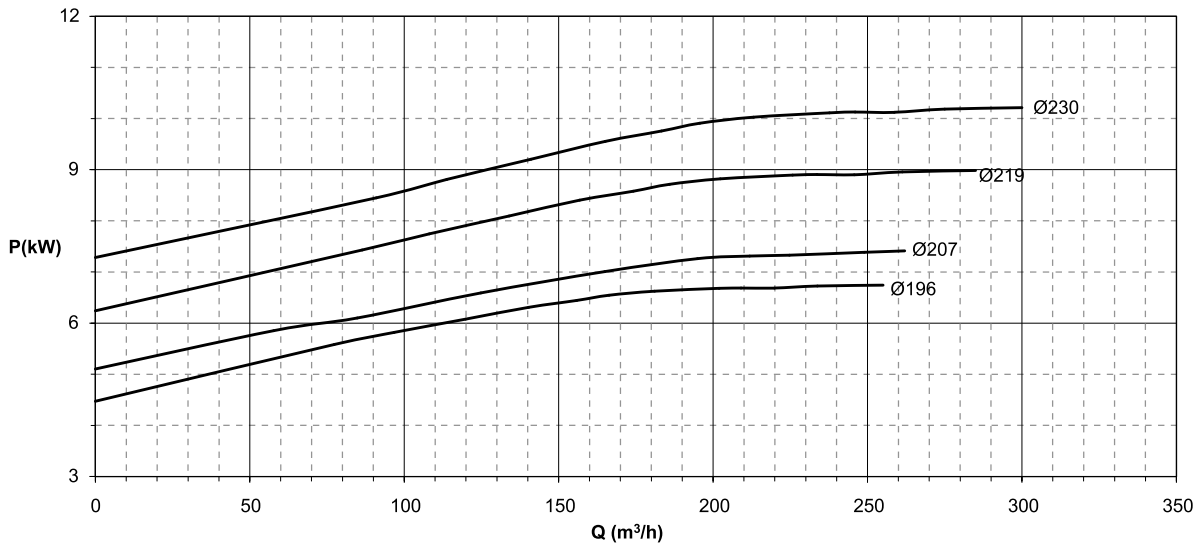
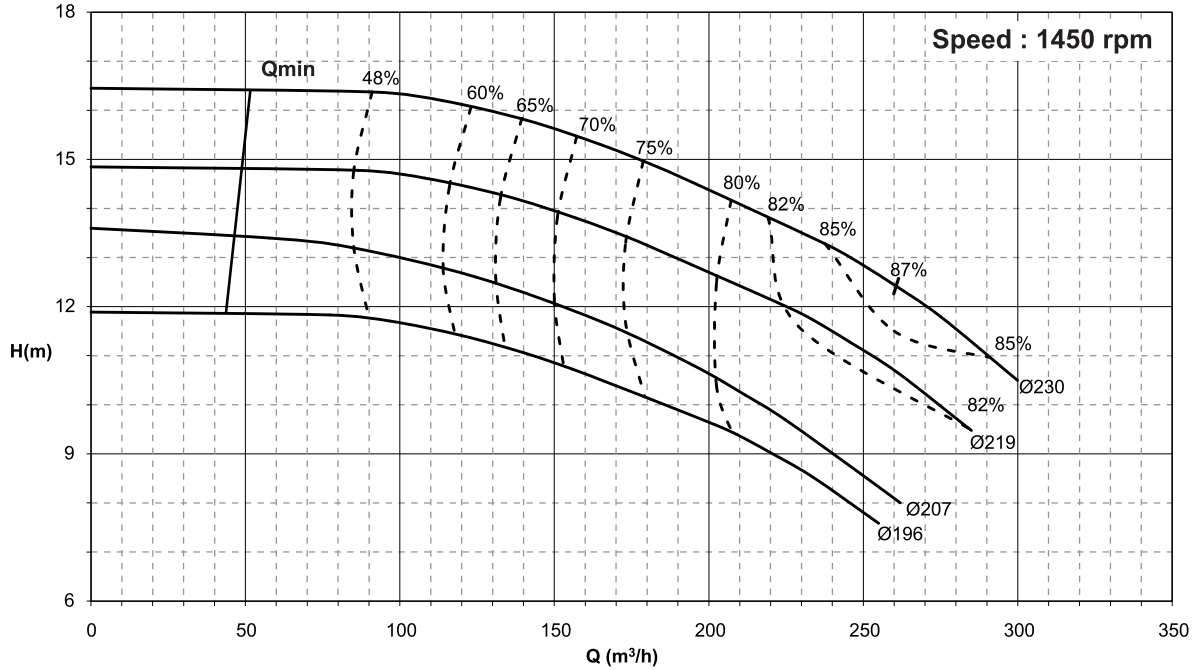




PERFORMANCE CURVE

Pump Model : **ECW-125/200**

Pump Size in mm : **150 x 125**

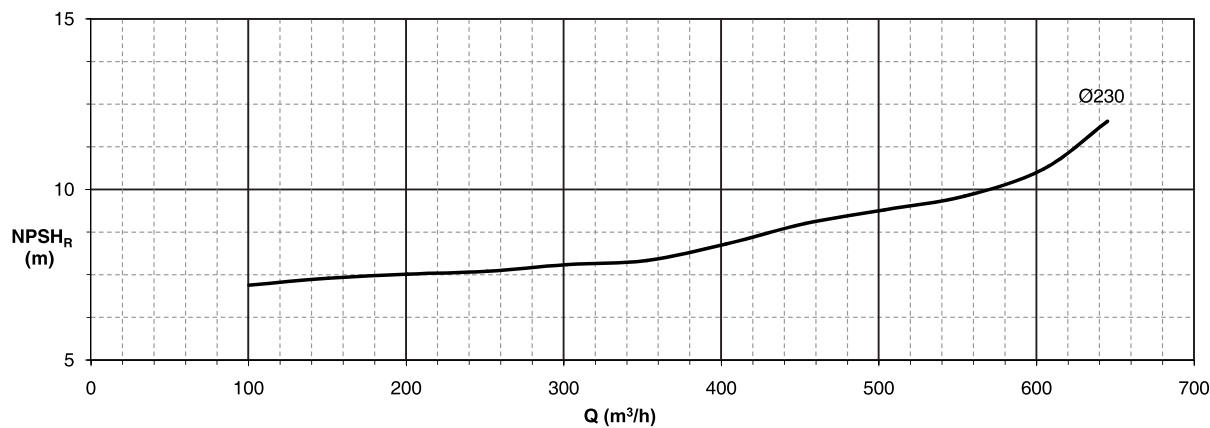
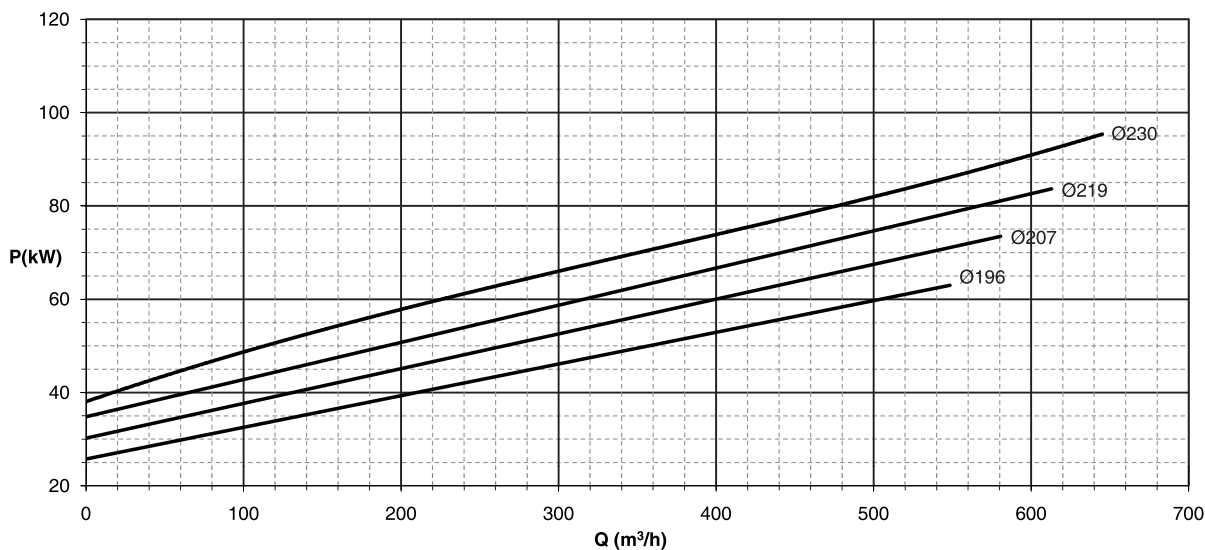
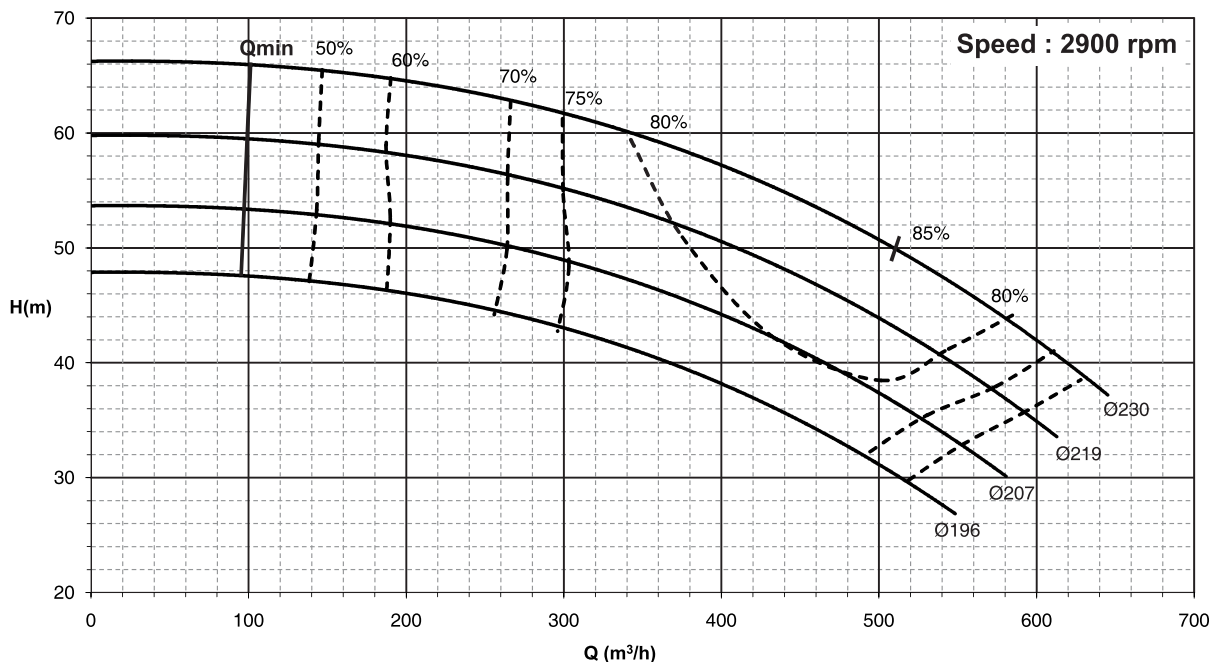




PERFORMANCE CURVE

Pump Model : **ECW-125/200**

Pump Size in mm : **150 x 125**

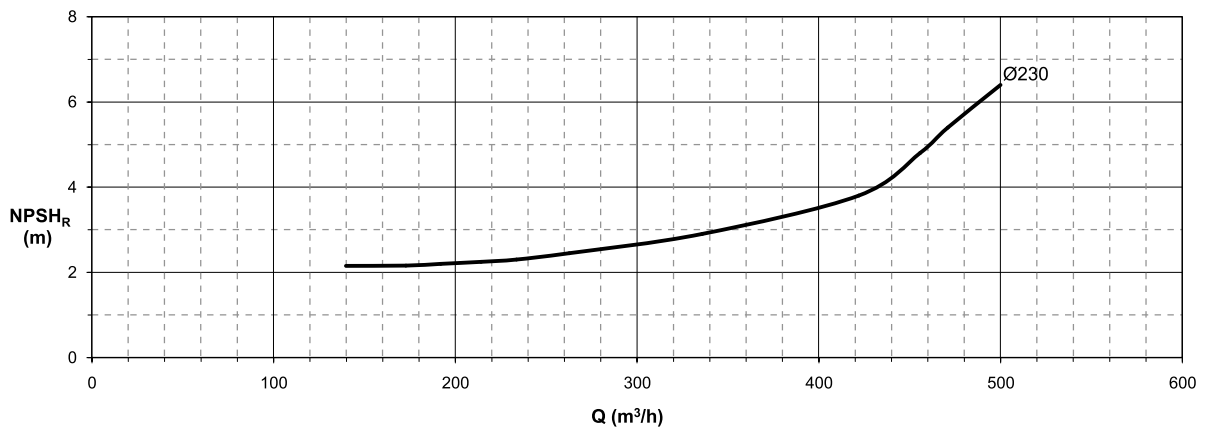
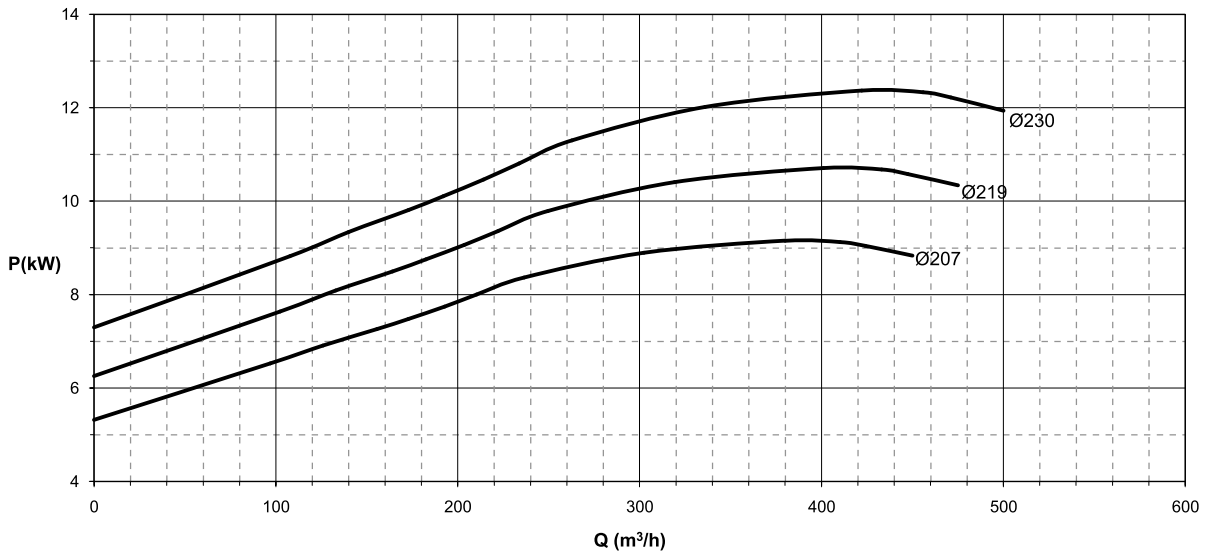
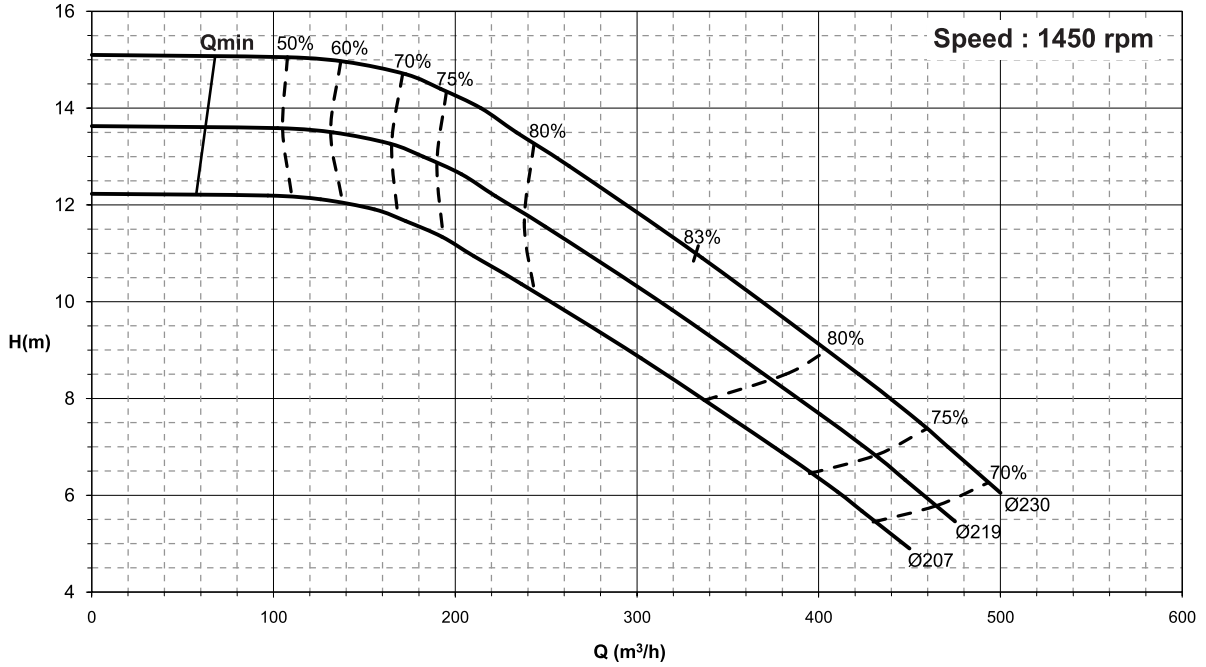




PERFORMANCE CURVE

Pump Model : ECW-150/200

Pump Size in mm : 200 x 150

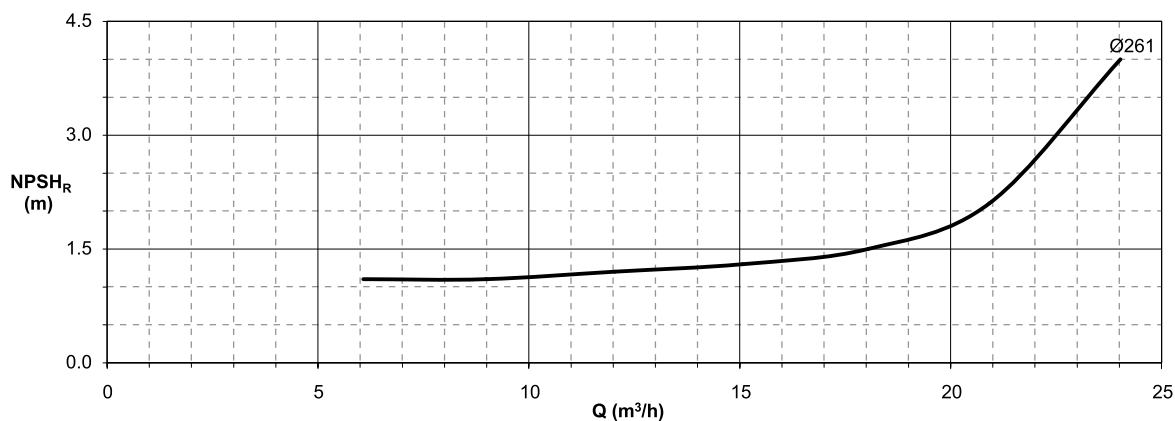
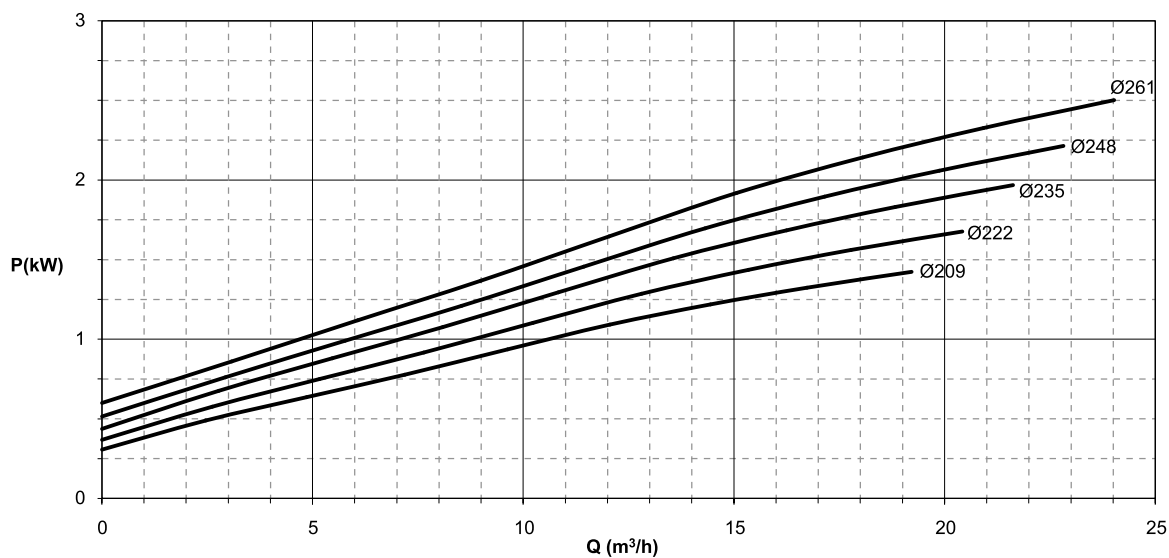
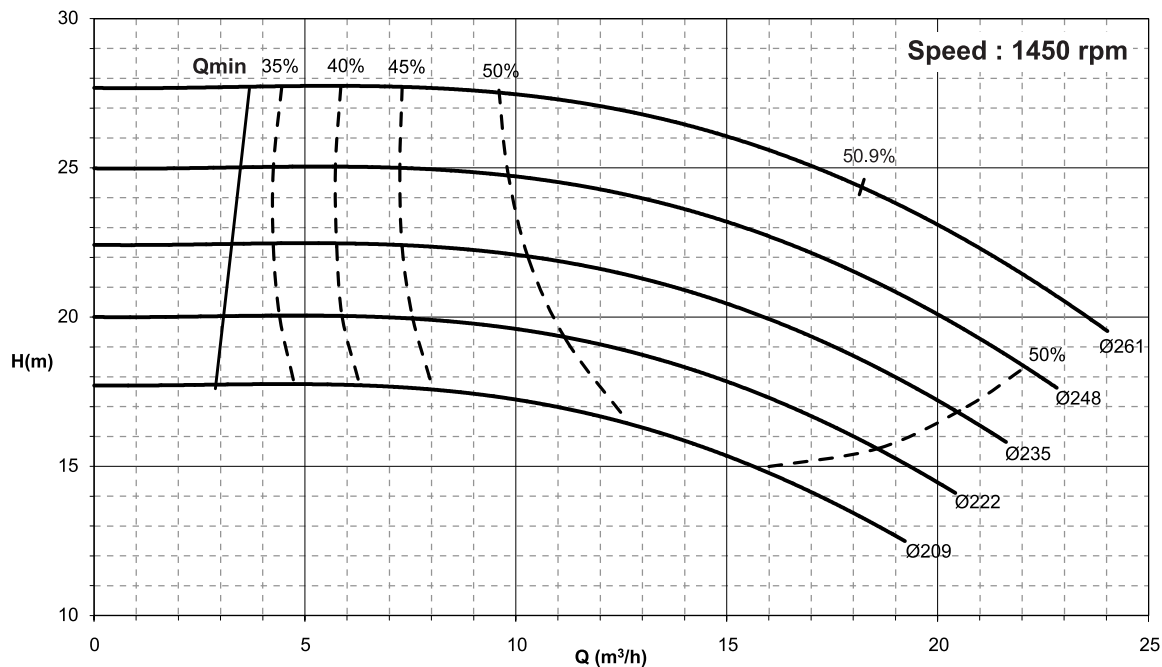




PERFORMANCE CURVE

Pump Model : **ECW-32/250**

Pump Size in mm : **50 x 32**

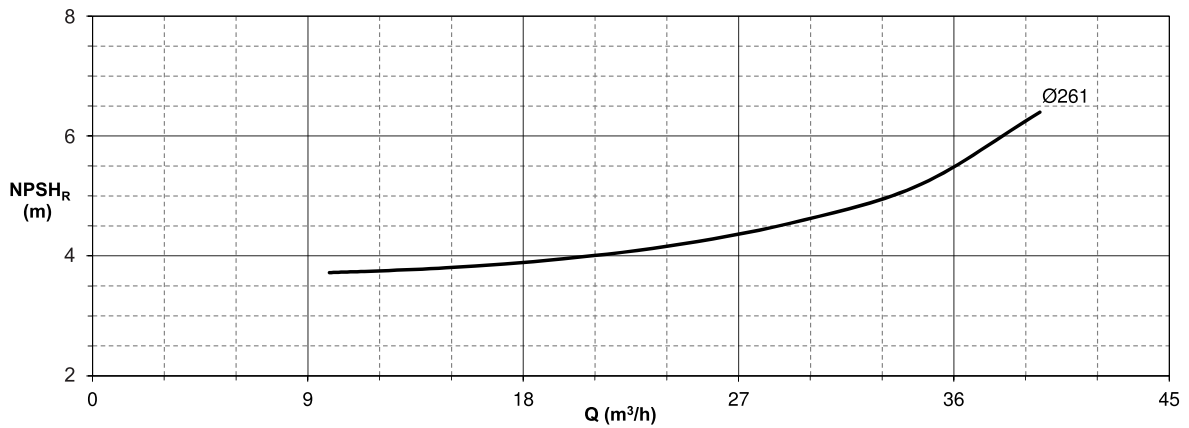
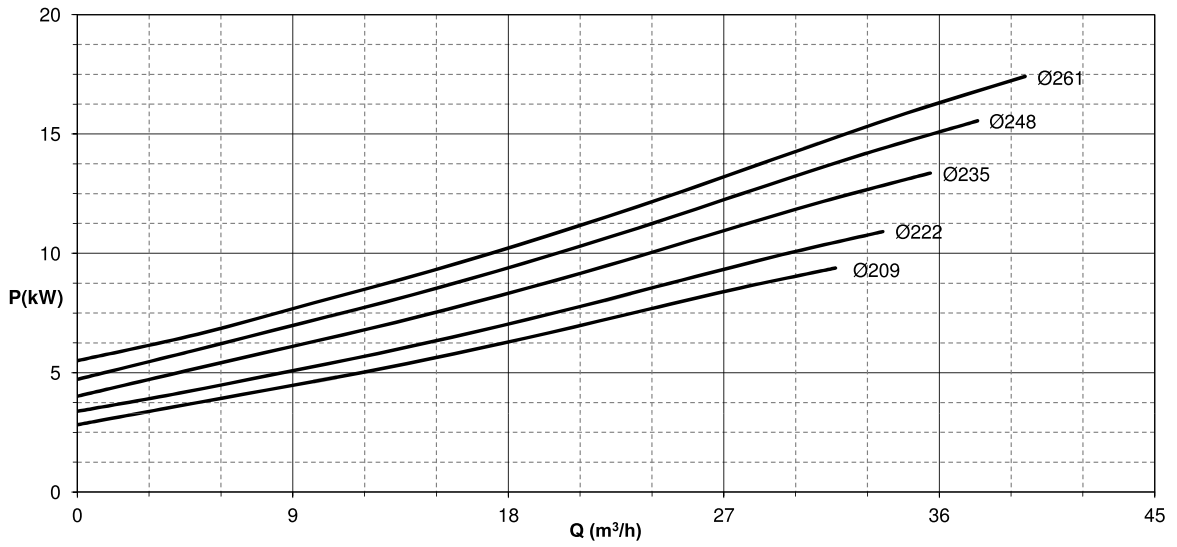
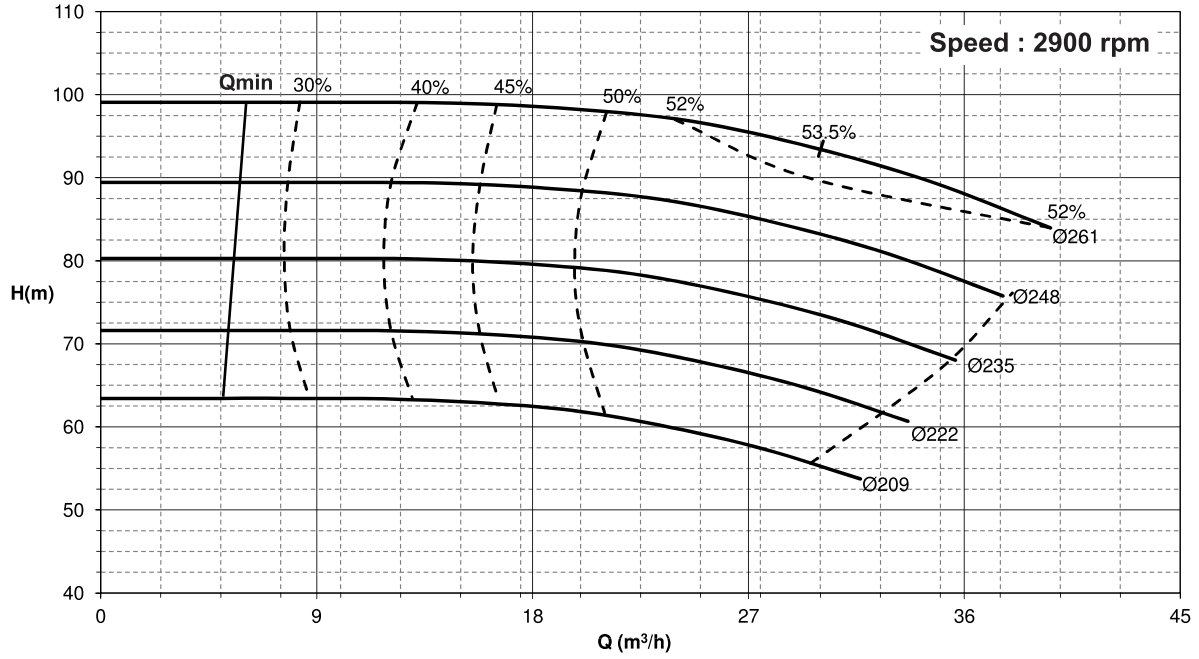




PERFORMANCE CURVE

Pump Model : ECW-32/250

Pump Size in mm : 50 x 32

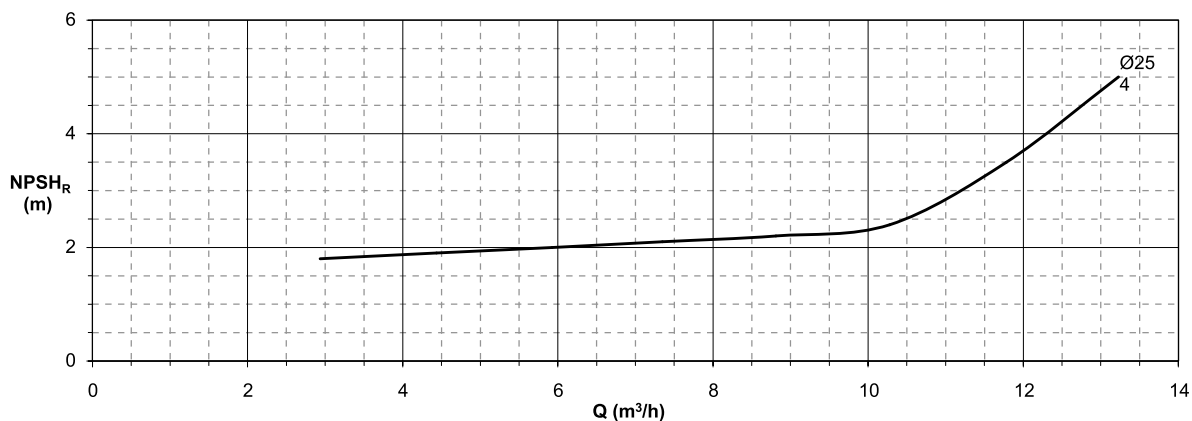
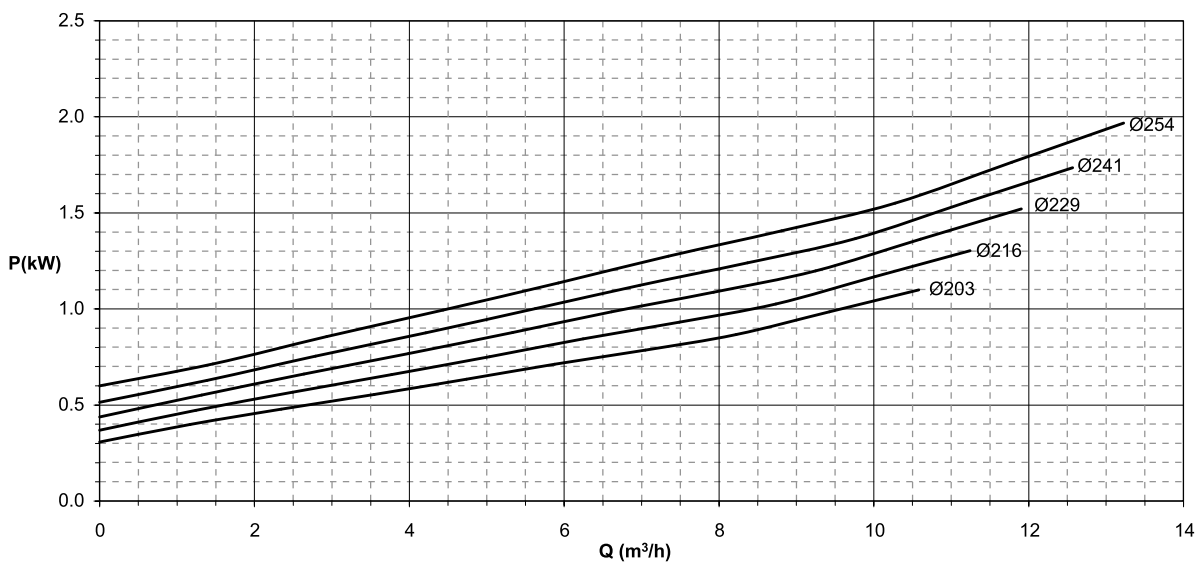
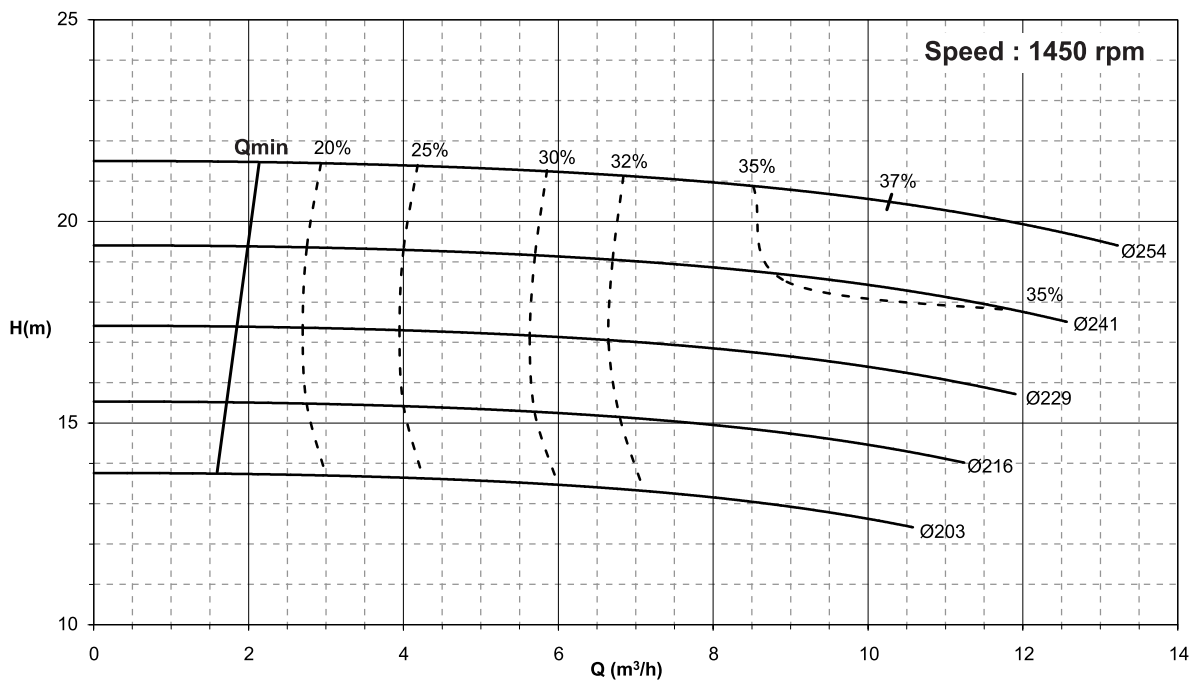




PERFORMANCE CURVE

Pump Model : **ECW-32/250E**

Pump Size in mm : **50 x 32**

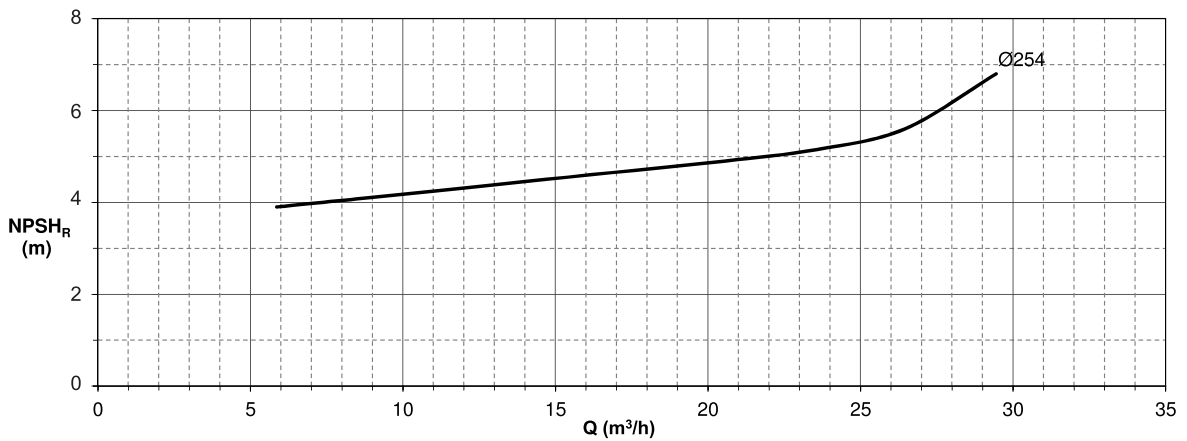
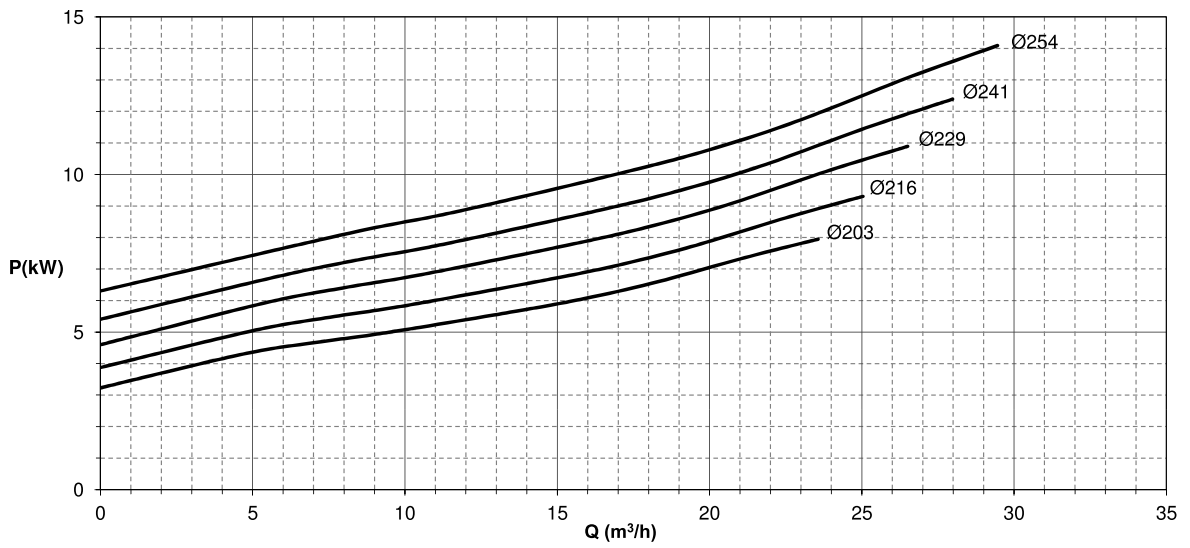
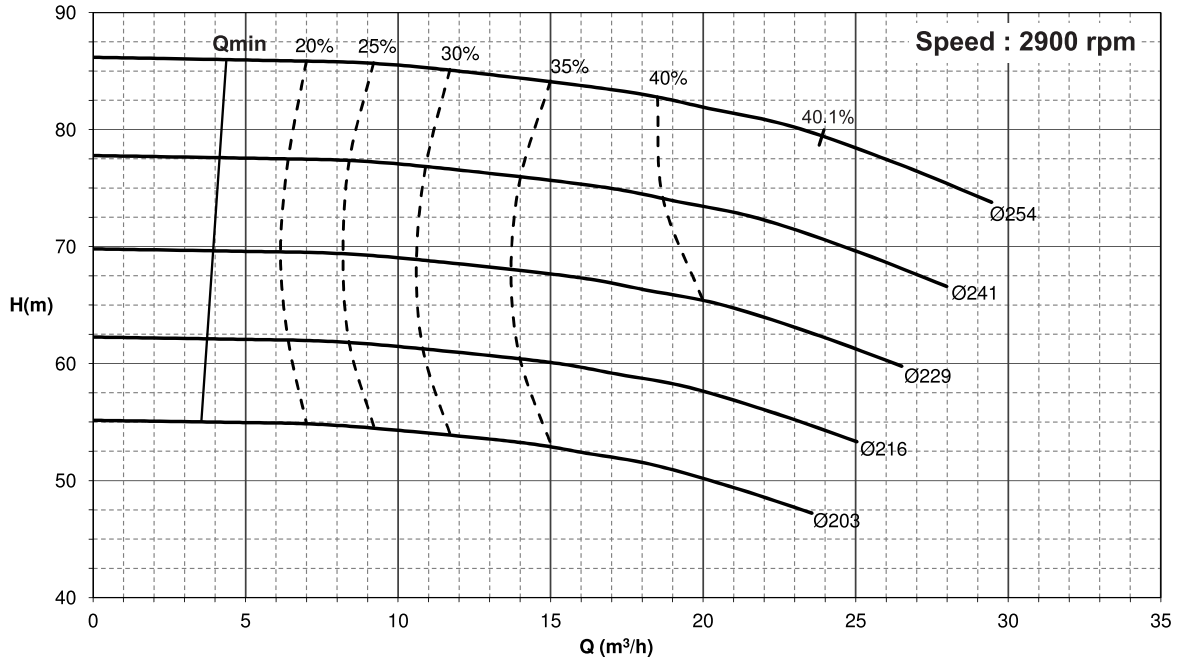




PERFORMANCE CURVE

Pump Model : ECW-32/250E

Pump Size in mm : 50 x 32

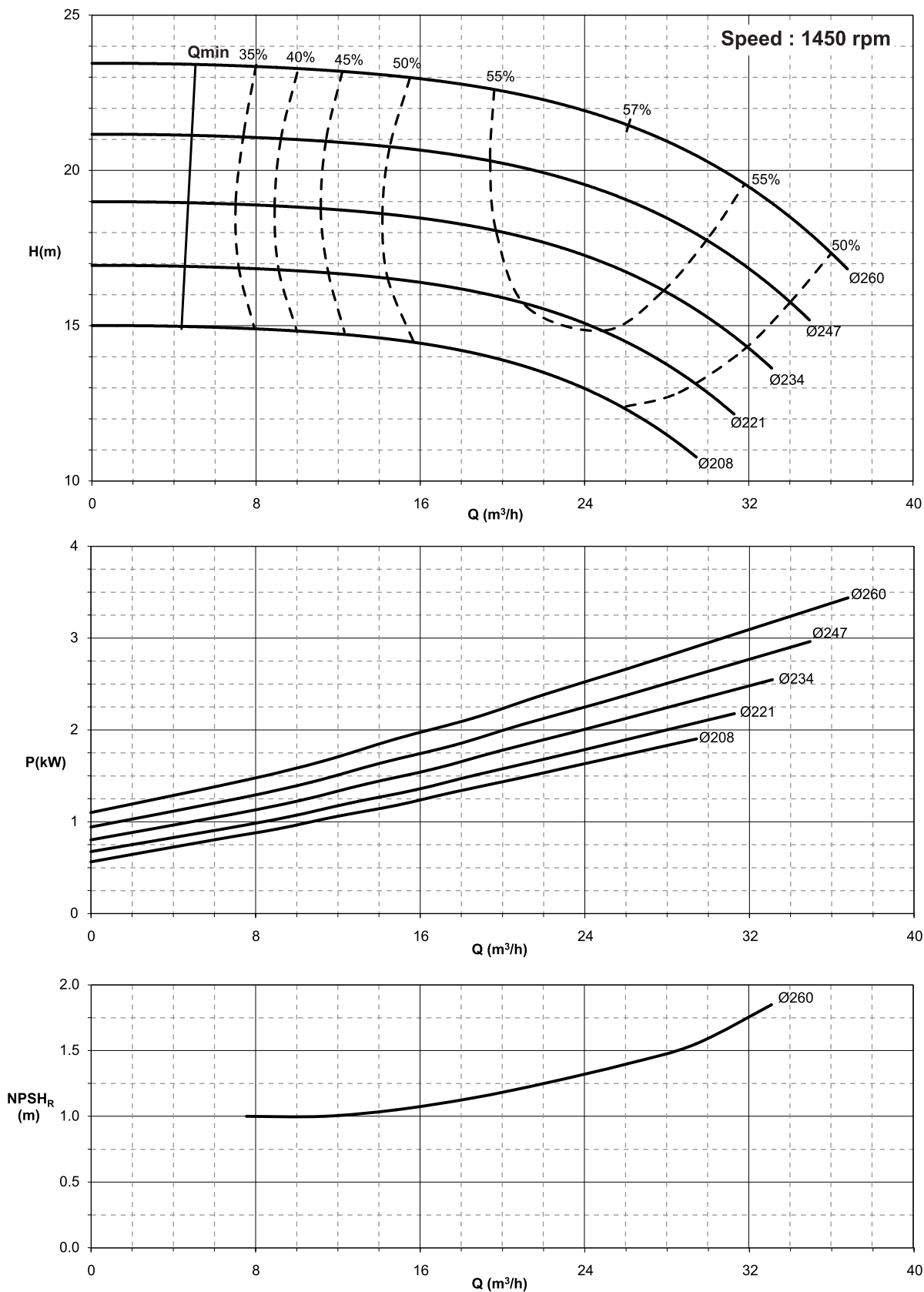




PERFORMANCE CURVE

Pump Model : **ECW-40/250**

Pump Size in mm : **65 x 40**

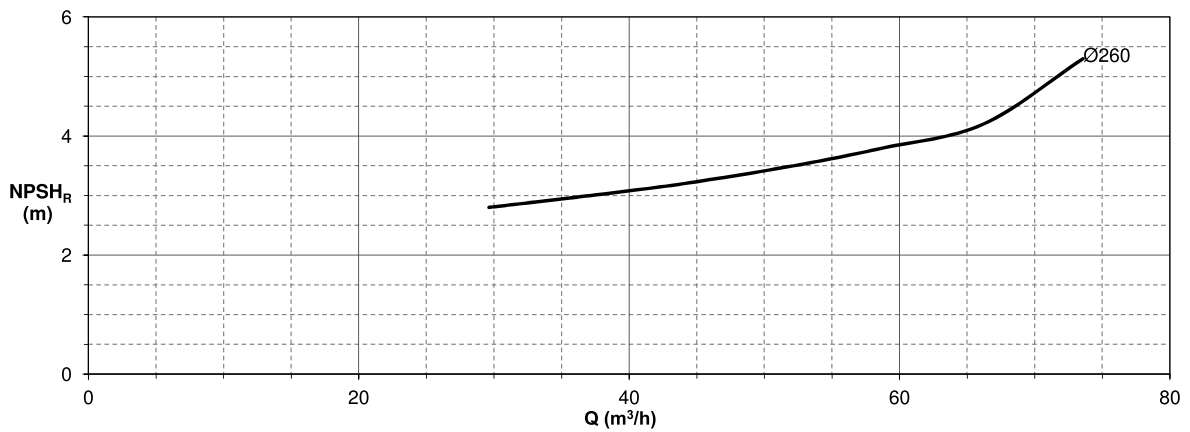
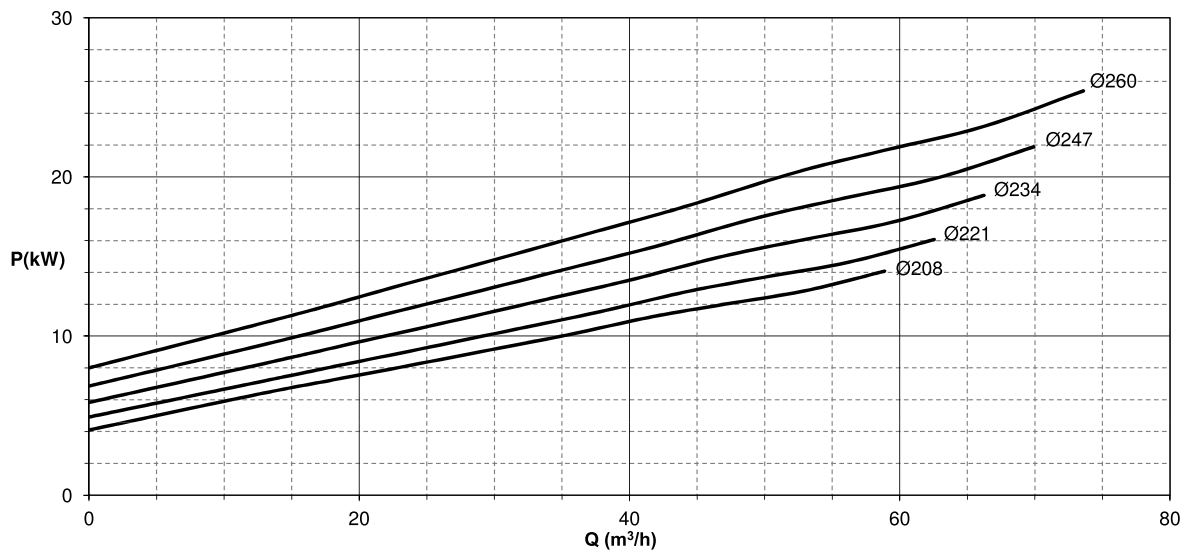
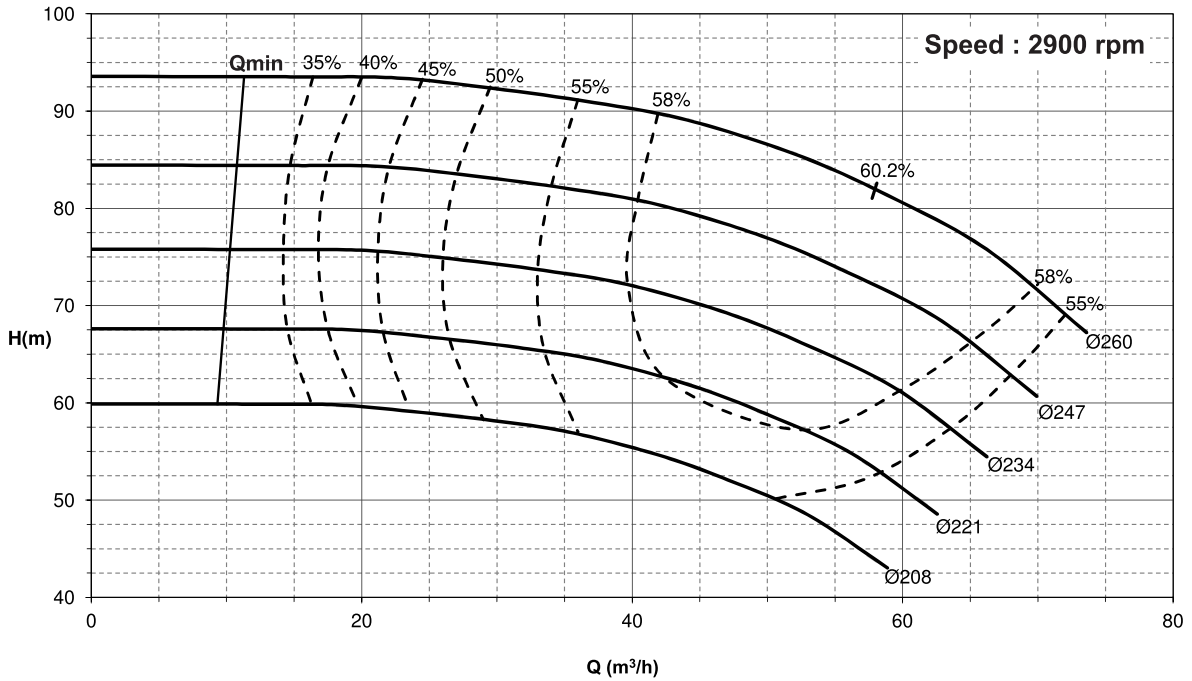




PERFORMANCE CURVE

Pump Model : **ECW-40/250**

Pump Size in mm : **65 x 40**

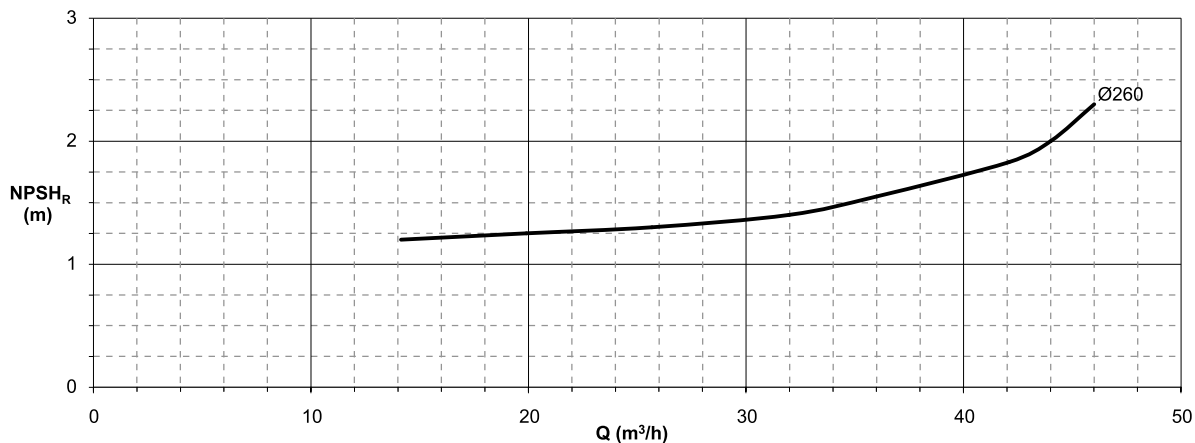
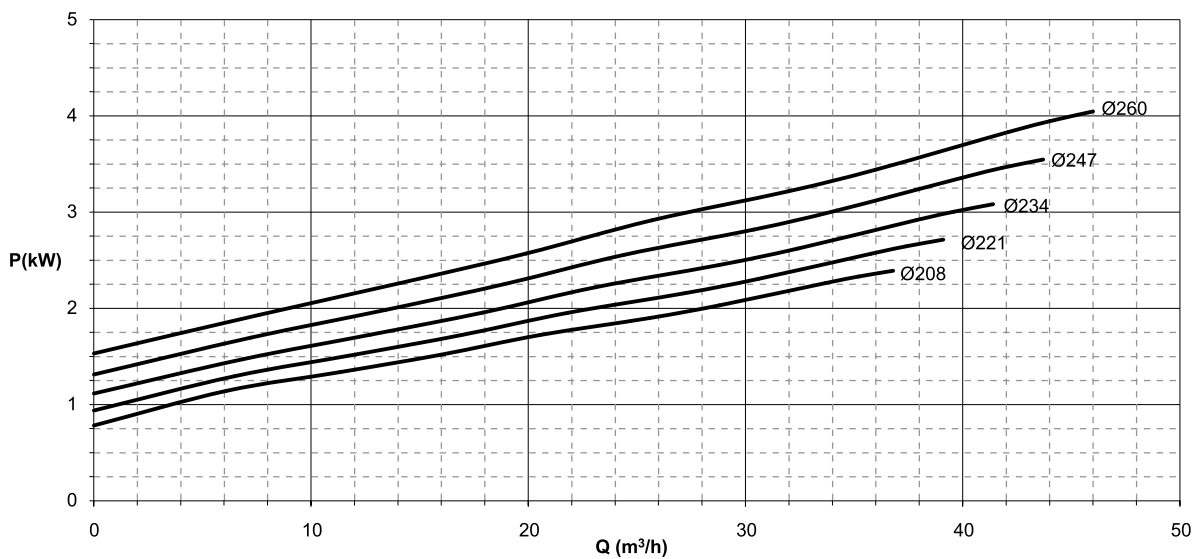
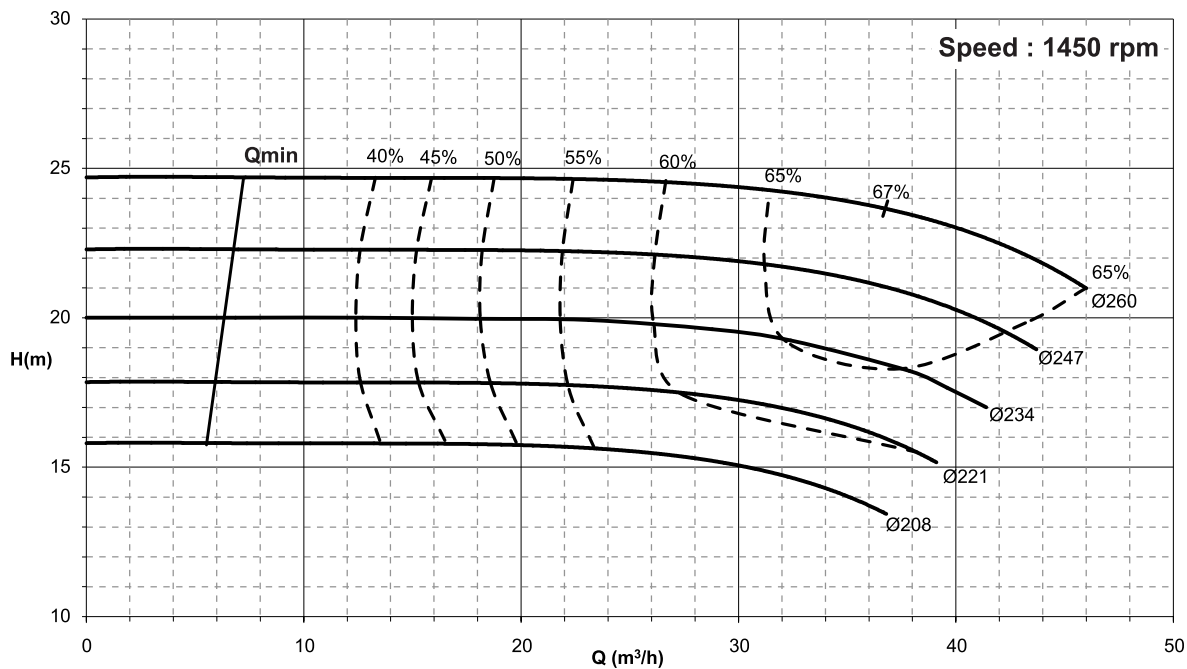




PERFORMANCE CURVE

Pump Model : **ECW-50/250**

Pump Size in mm : **65 x 50**

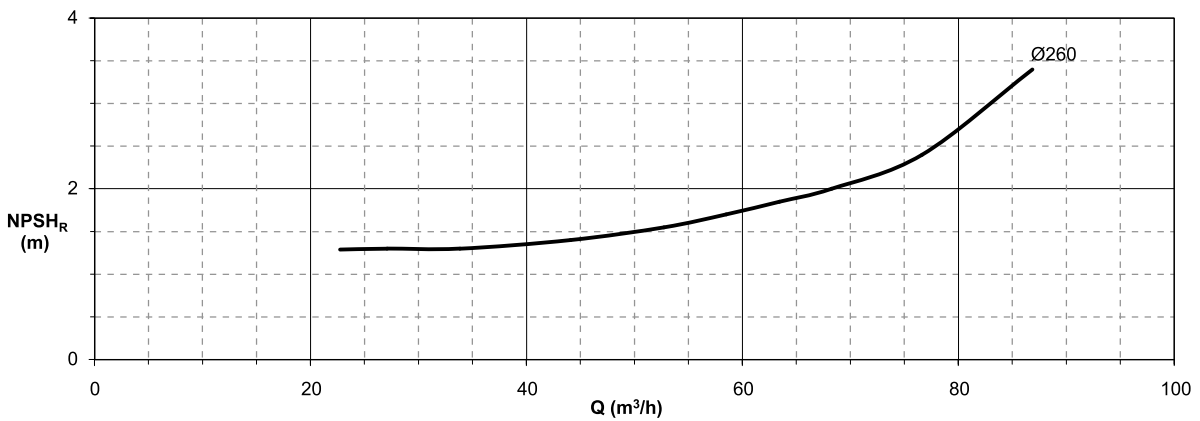
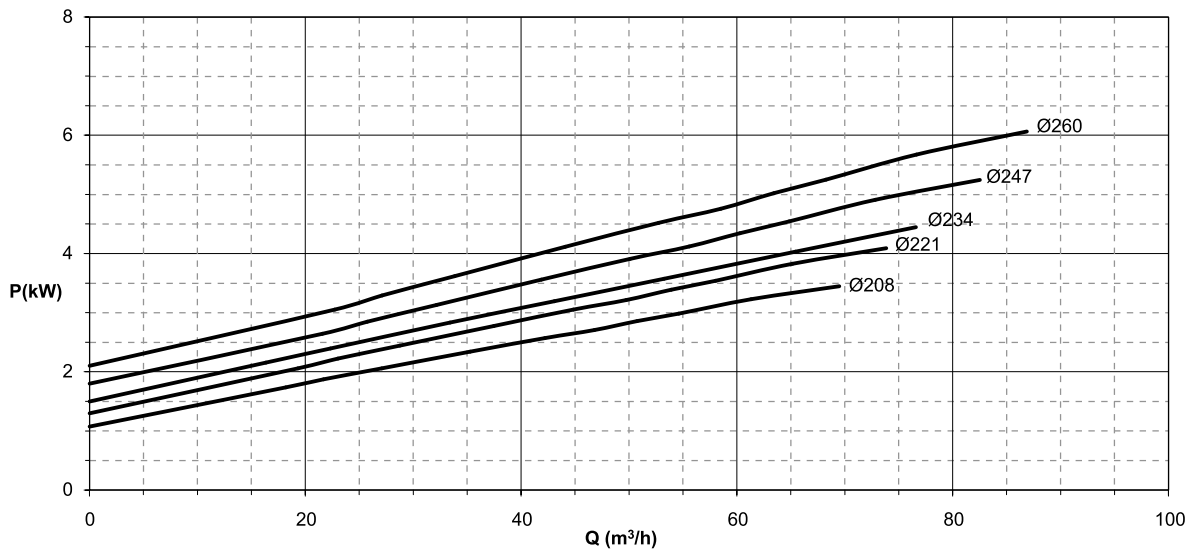
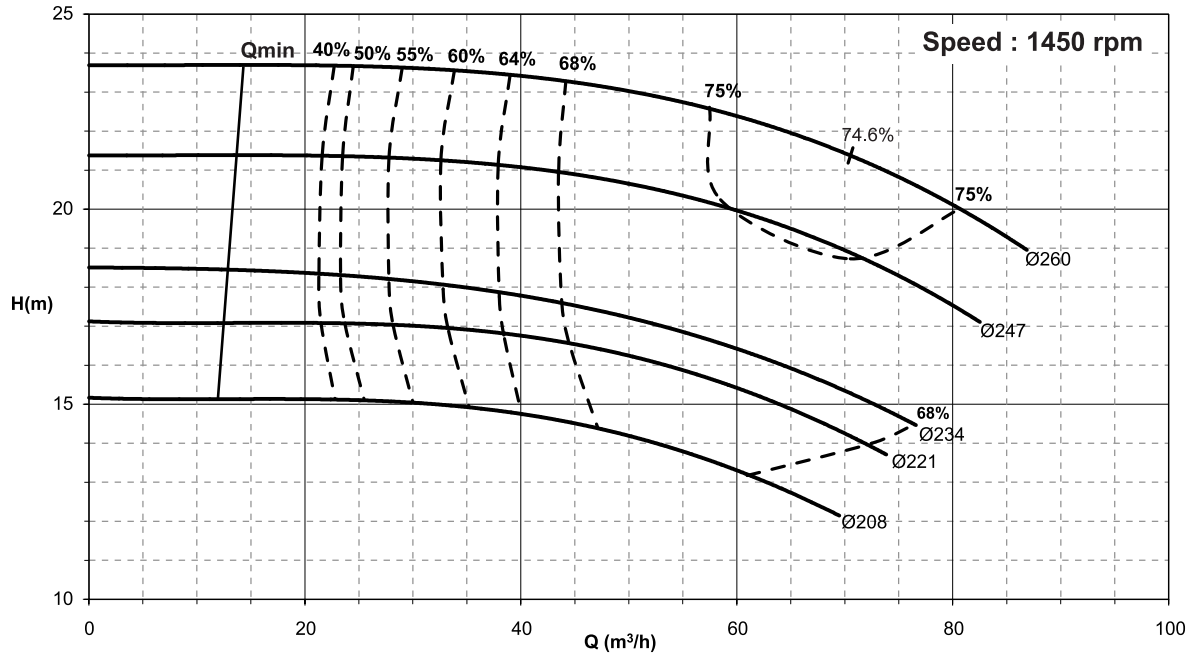




PERFORMANCE CURVE

Pump Model : ECW-65/250

Pump Size in mm : 80 x 65

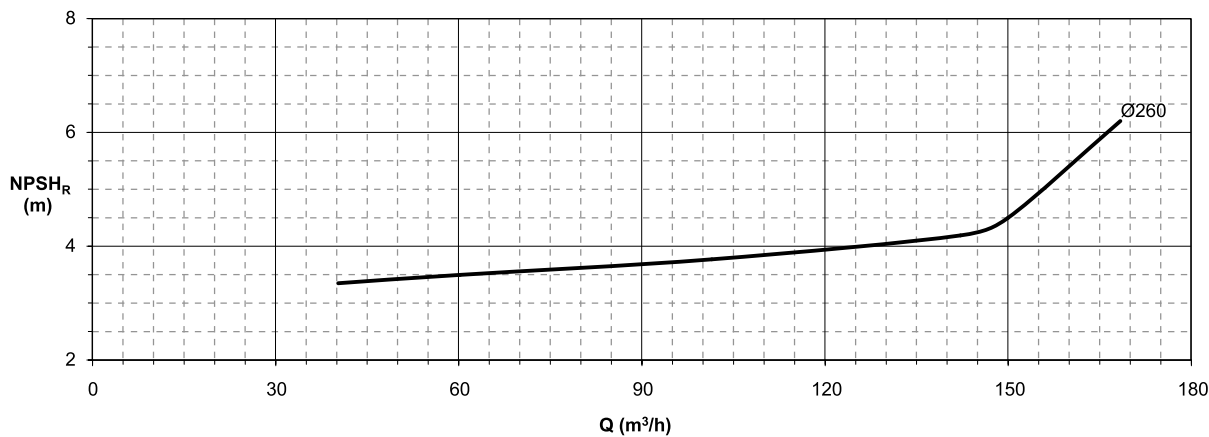
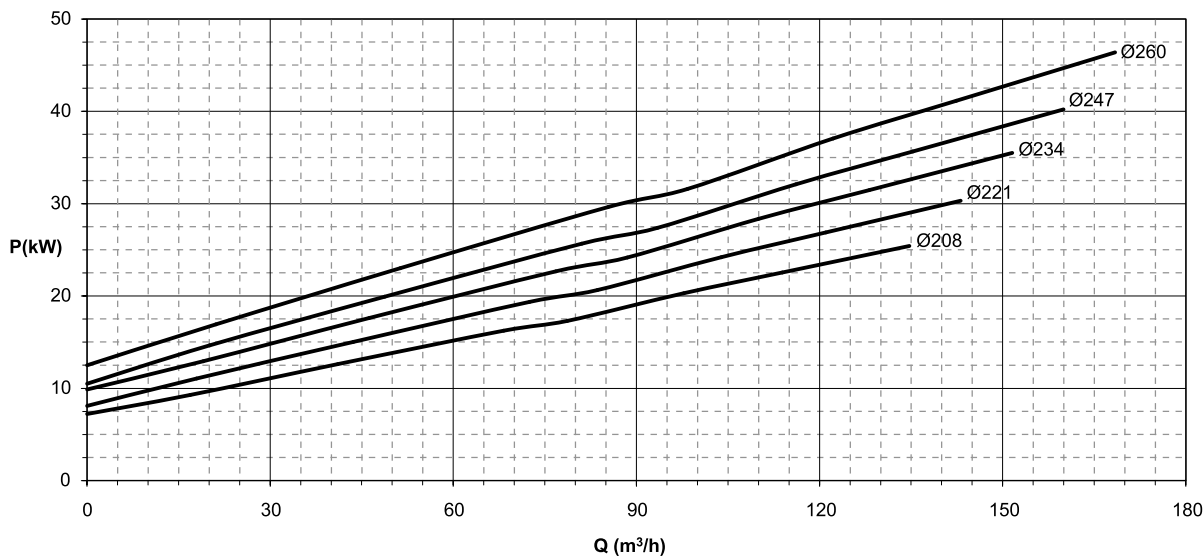
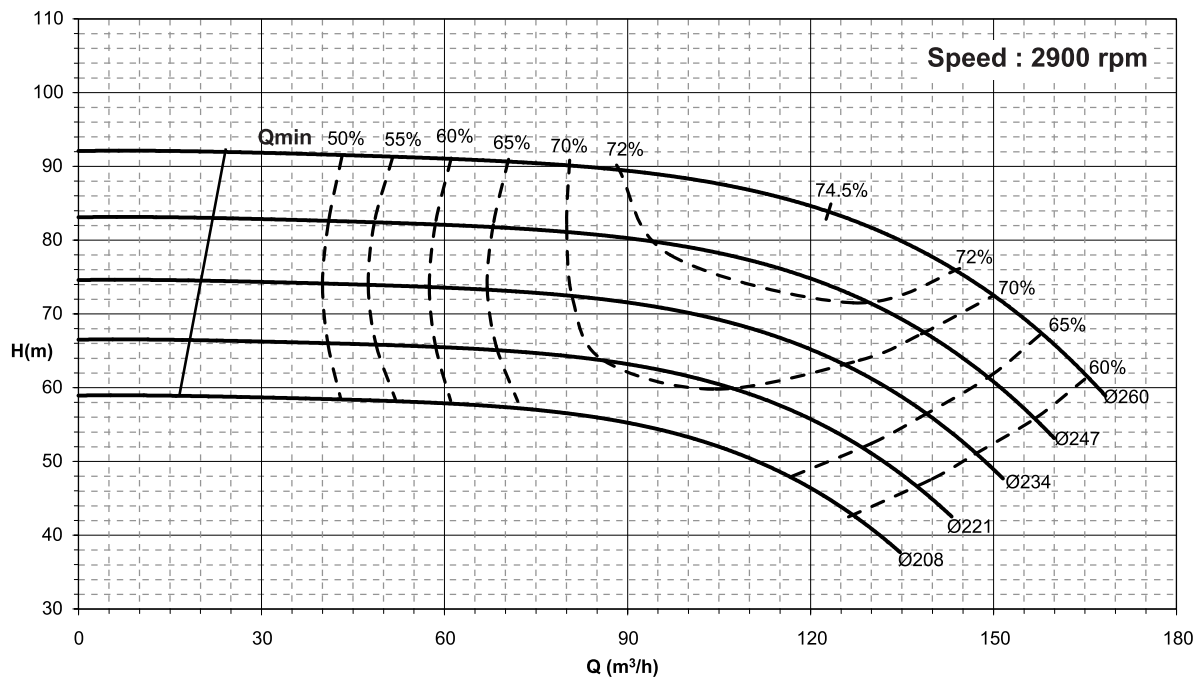




PERFORMANCE CURVE

Pump Model : **ECW-65/250**

Pump Size in mm : **80 x 65**

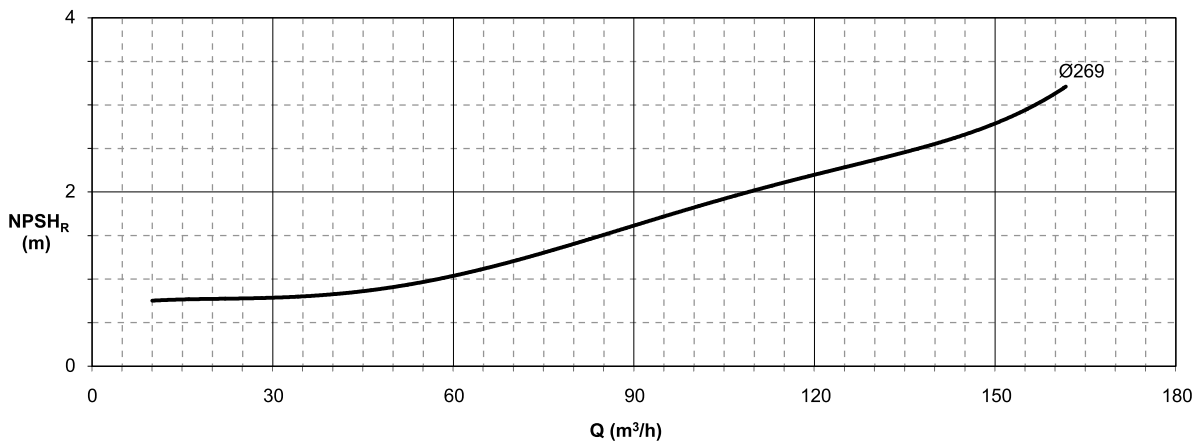
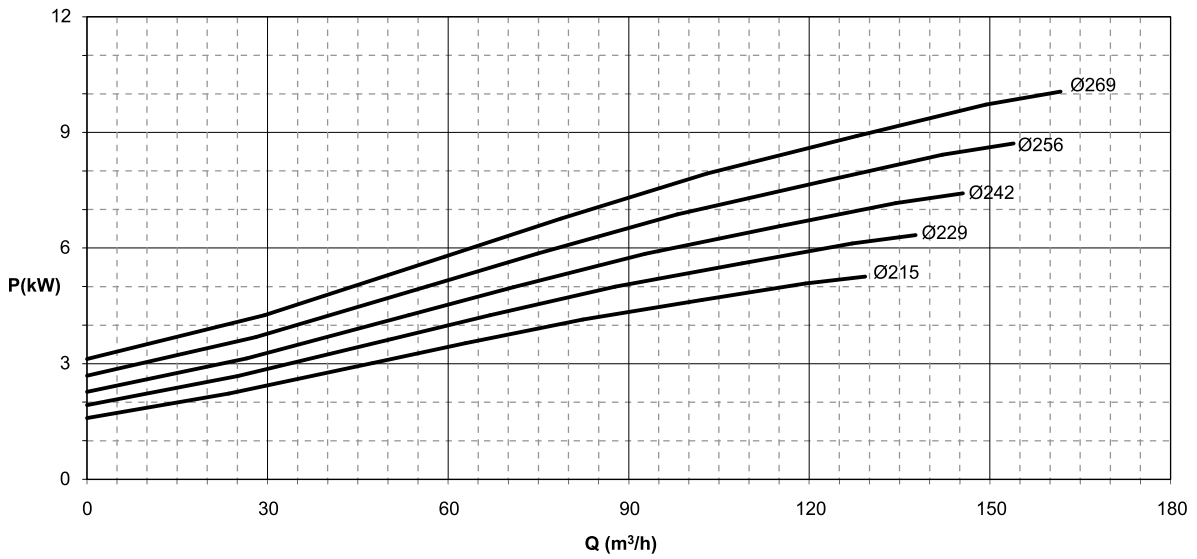
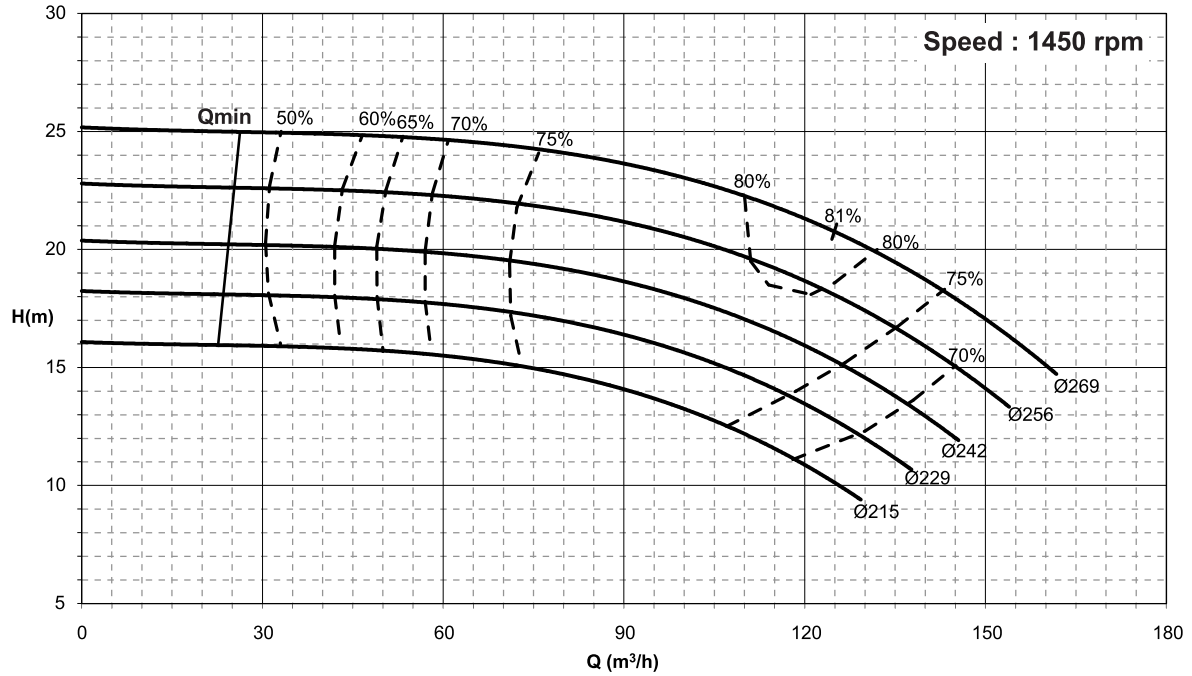




PERFORMANCE CURVE

Pump Model : **ECW-80/250**

Pump Size in mm : **100 x 80**

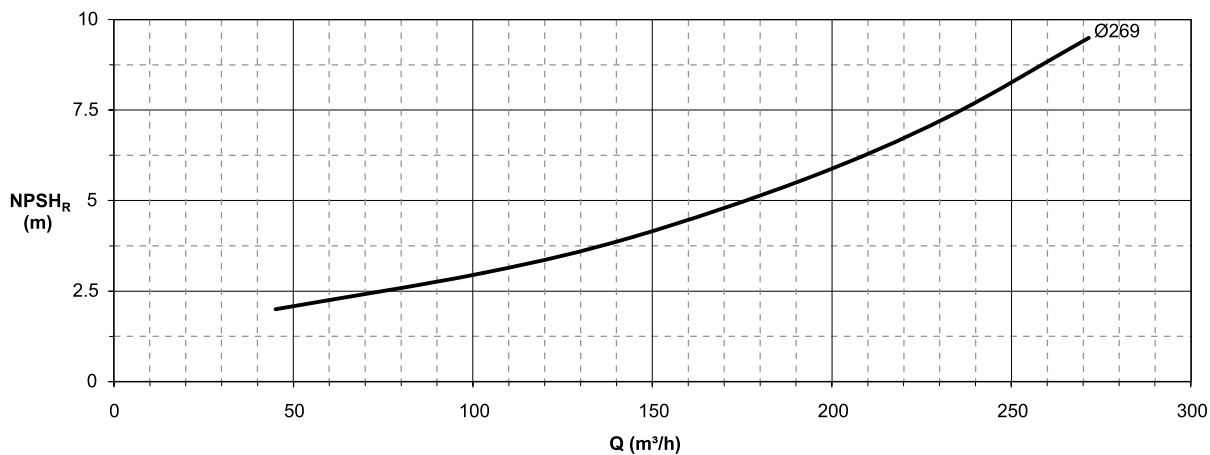
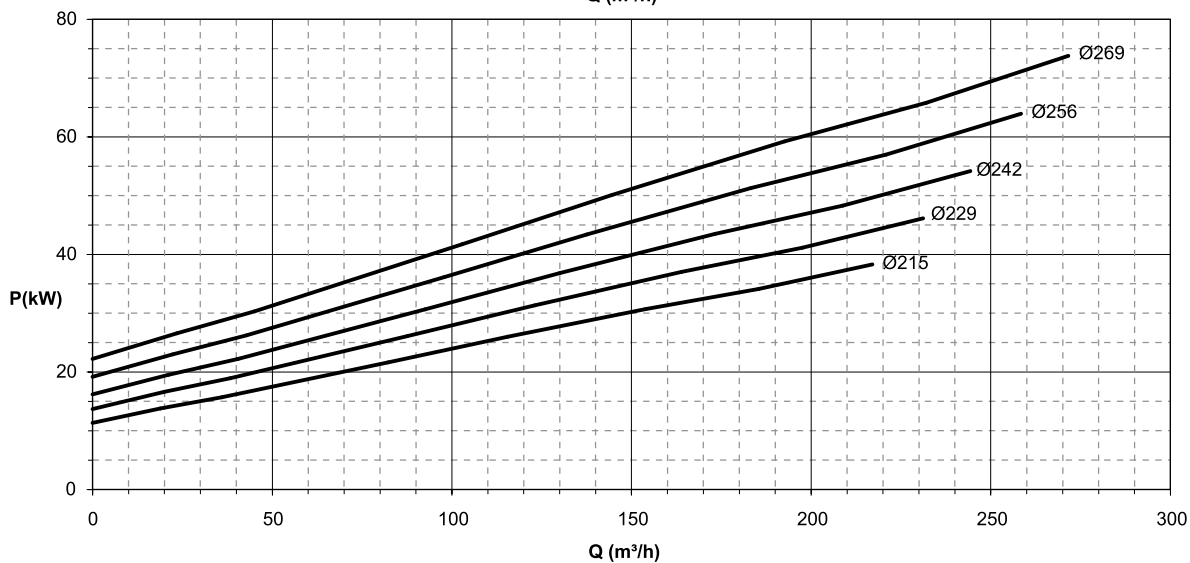
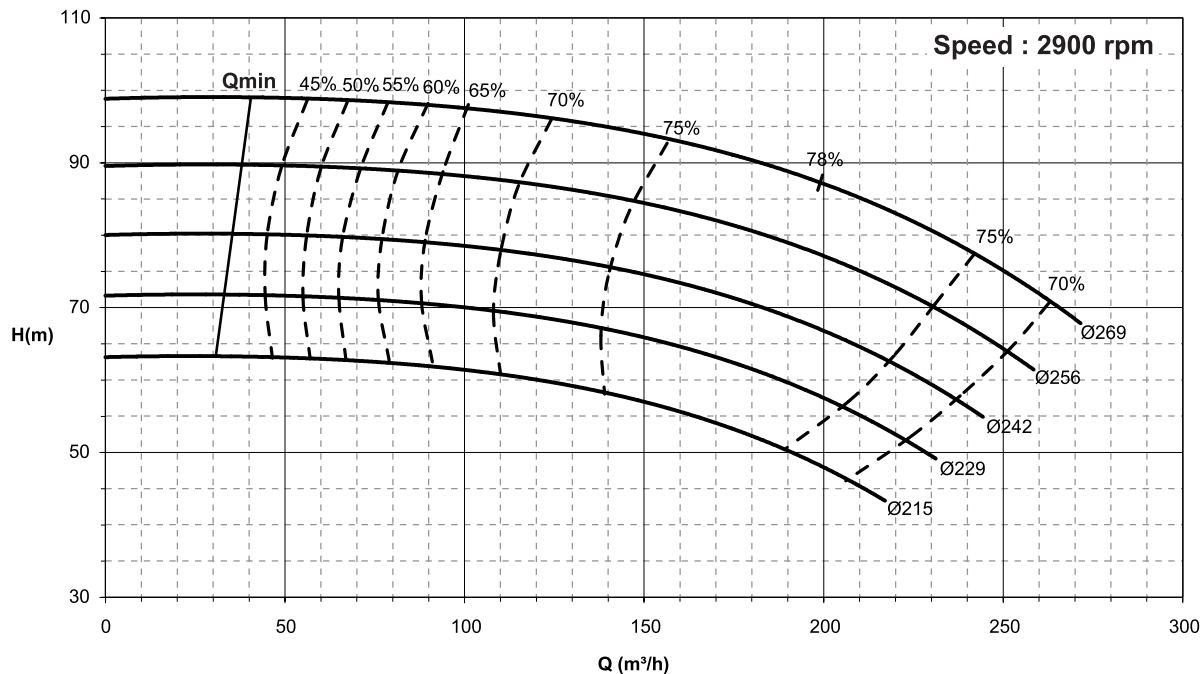




PERFORMANCE CURVE

Pump Model : **ECW-80/250**

Pump Size in mm : **100 x 80**

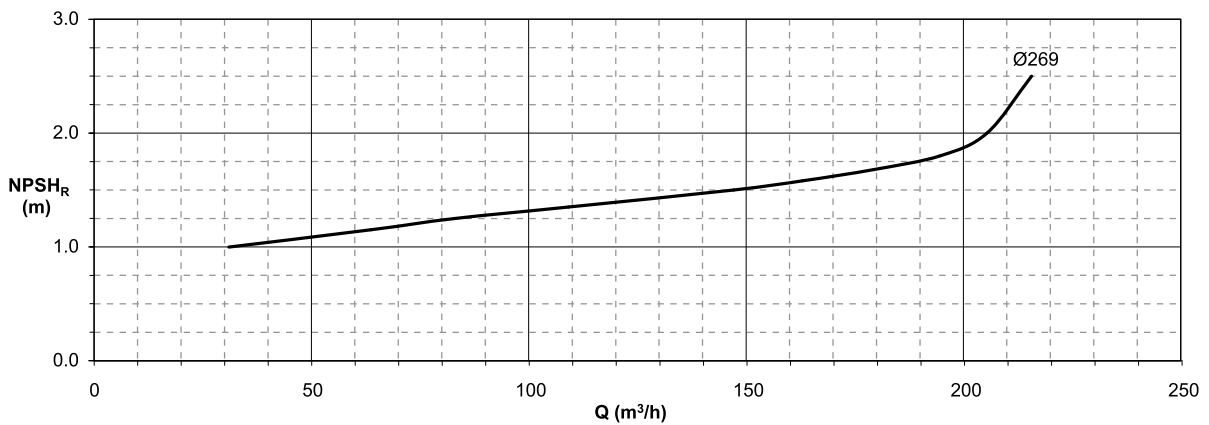
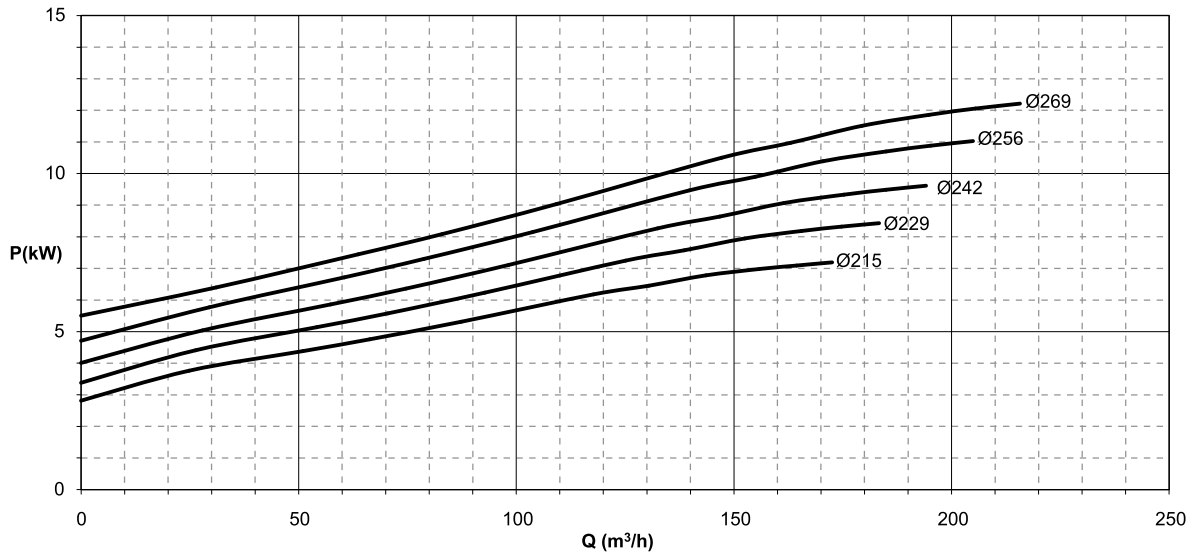
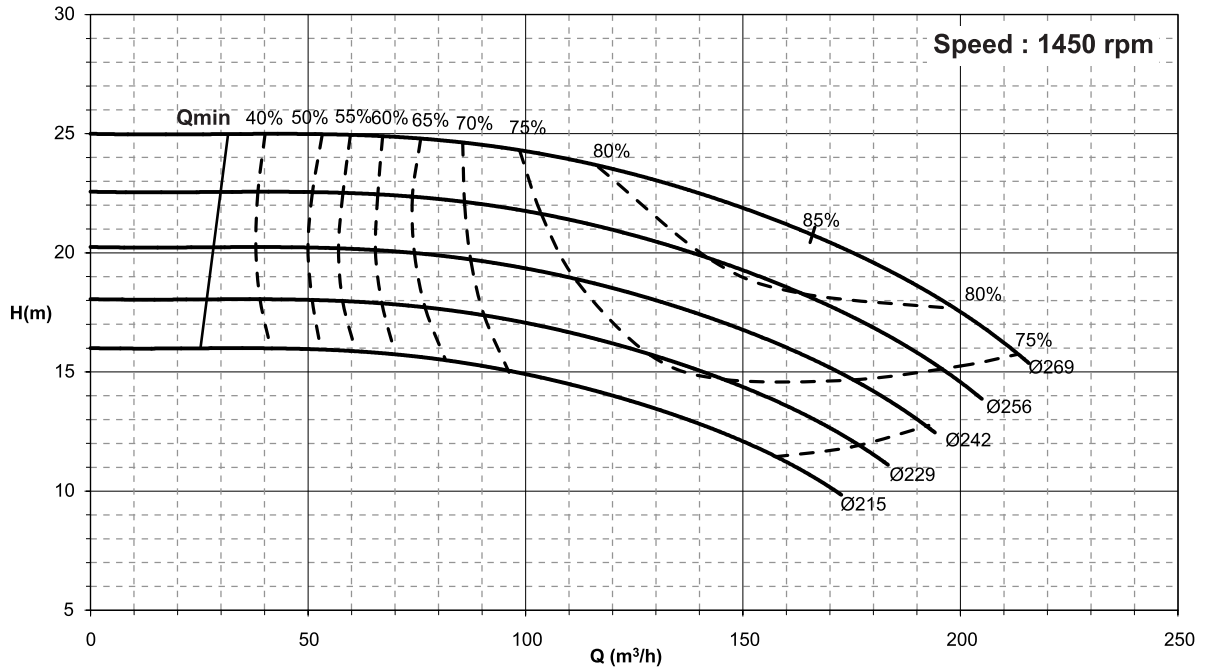




PERFORMANCE CURVE

Pump Model : ECW-100/250

Pump Size in mm : 125 x 100



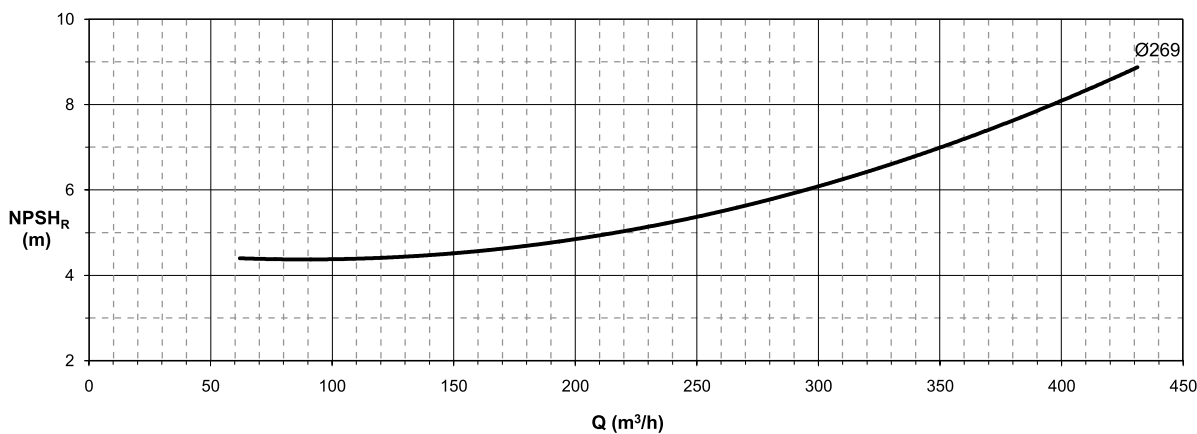
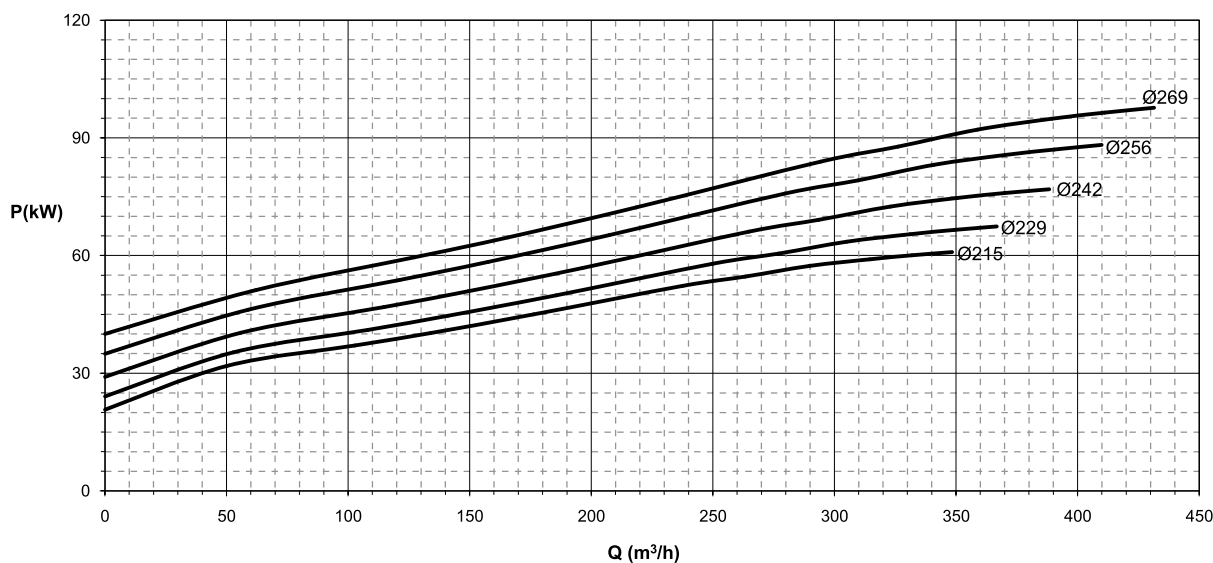
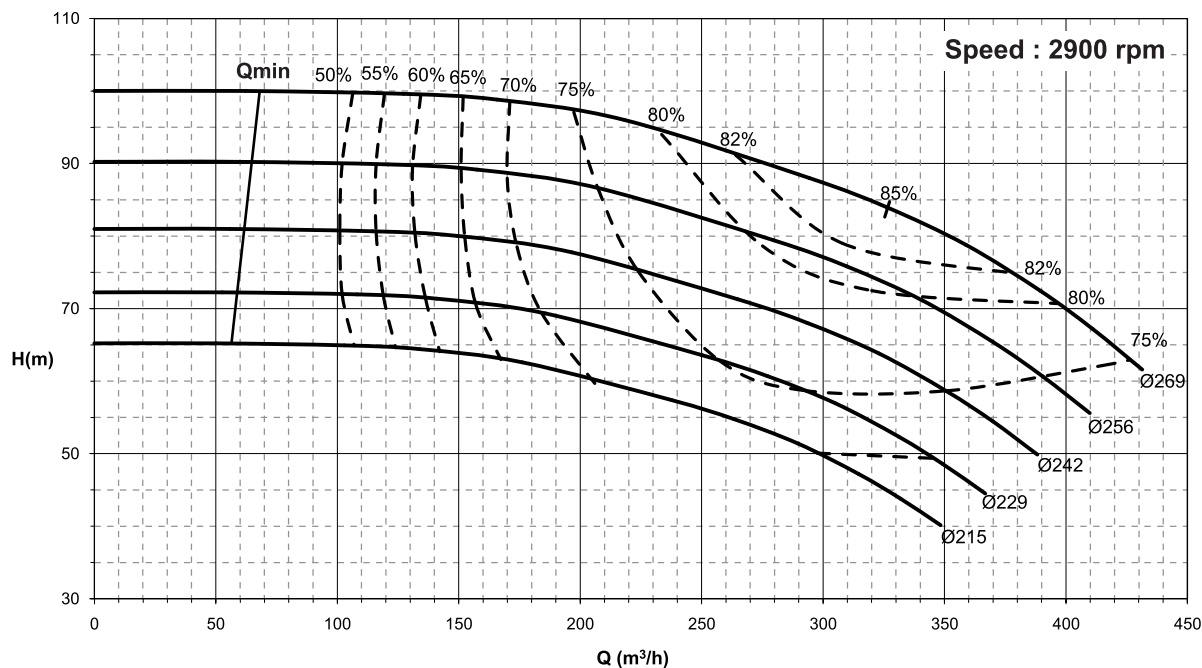


PERFORMANCE CURVE

Pump Model : **ECW-100/250**

On Request

Pump Size in mm : **125 x 100**

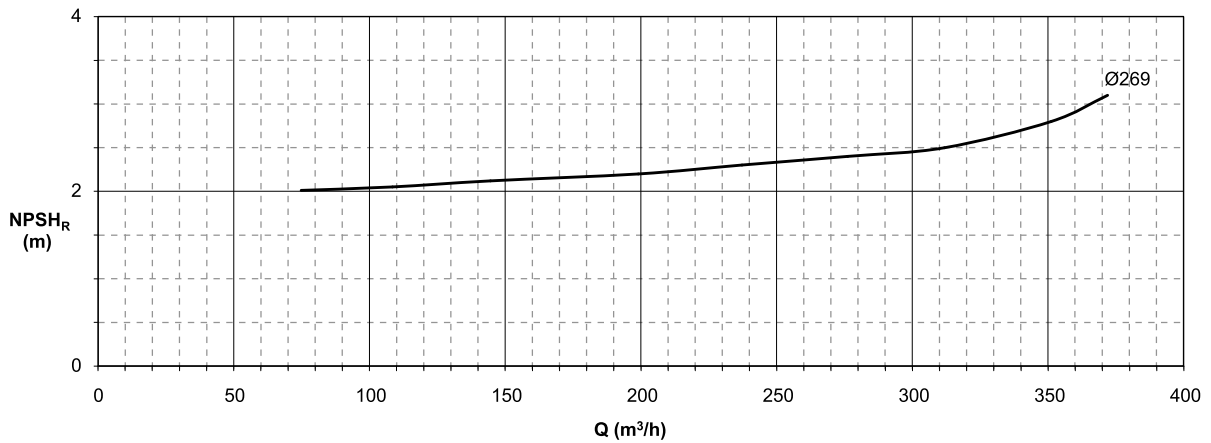
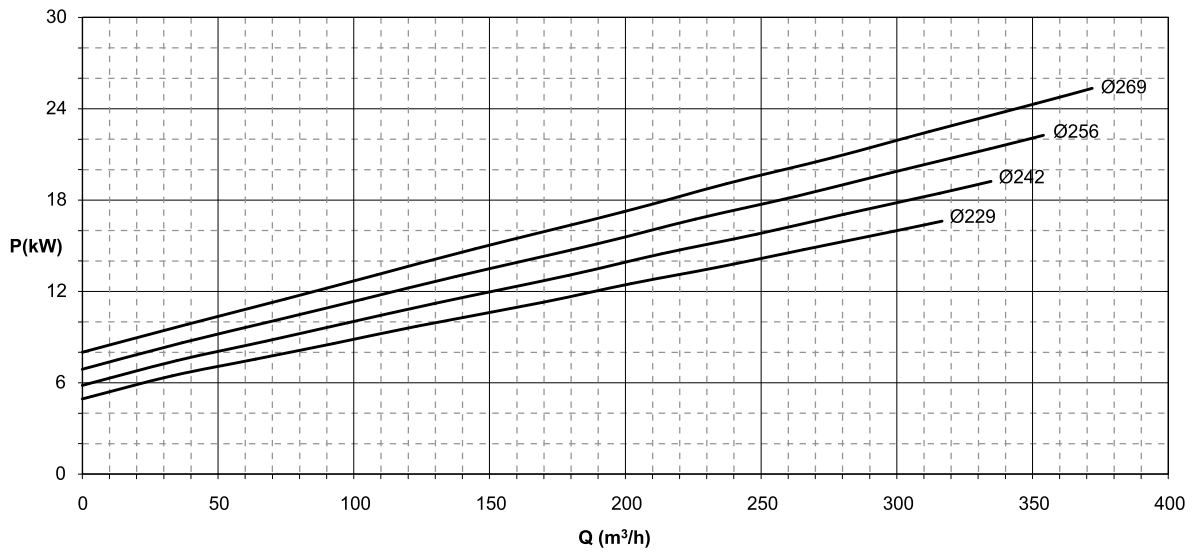
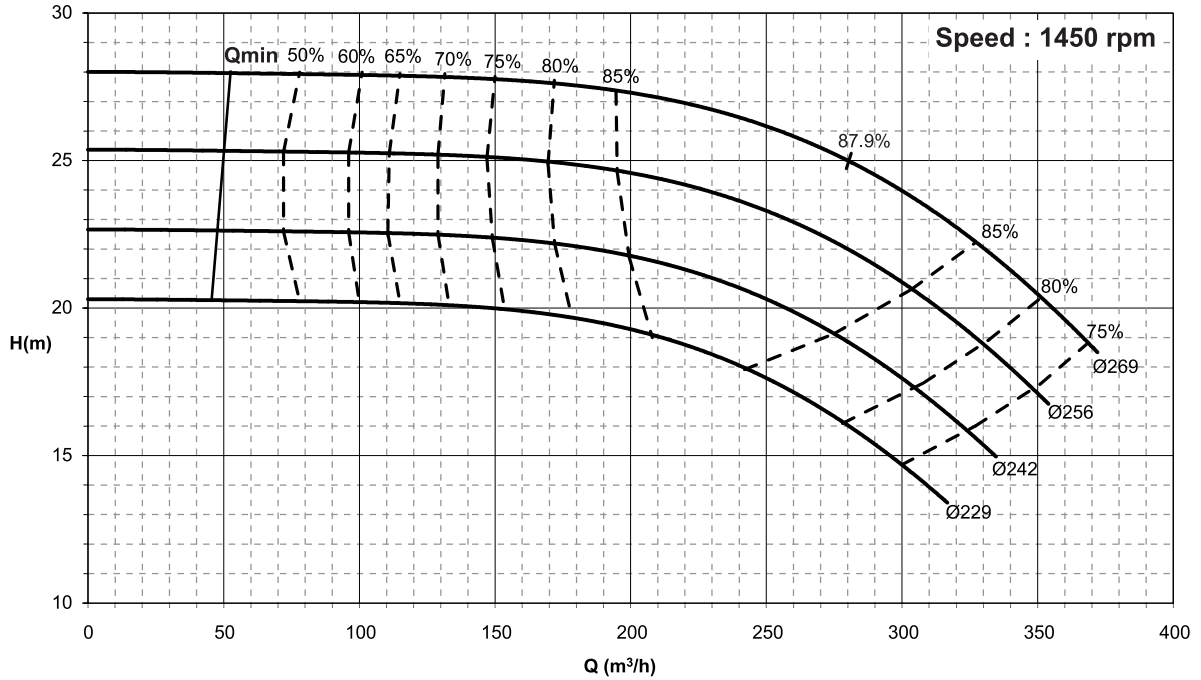




PERFORMANCE CURVE

Pump Model : **ECW-125/250**

Pump Size in mm : **150 x 125**

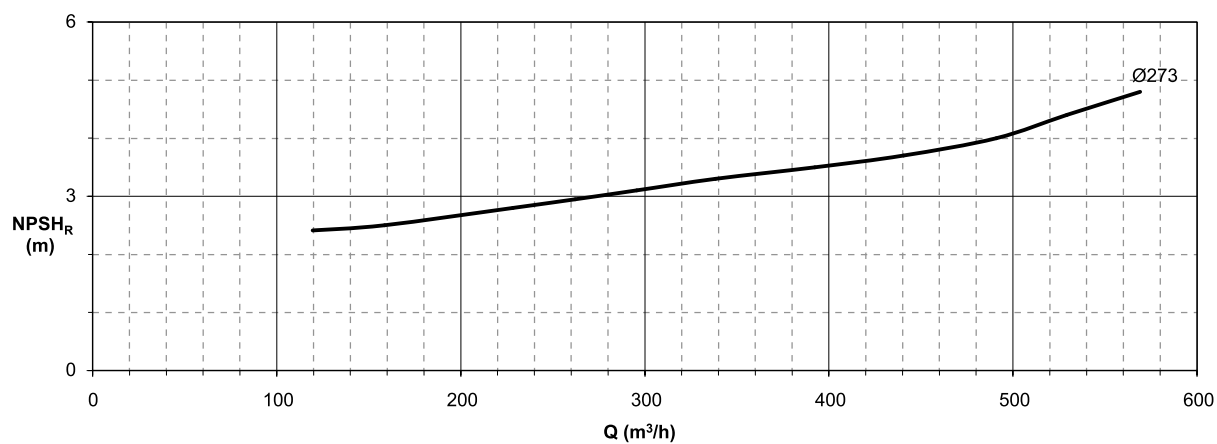
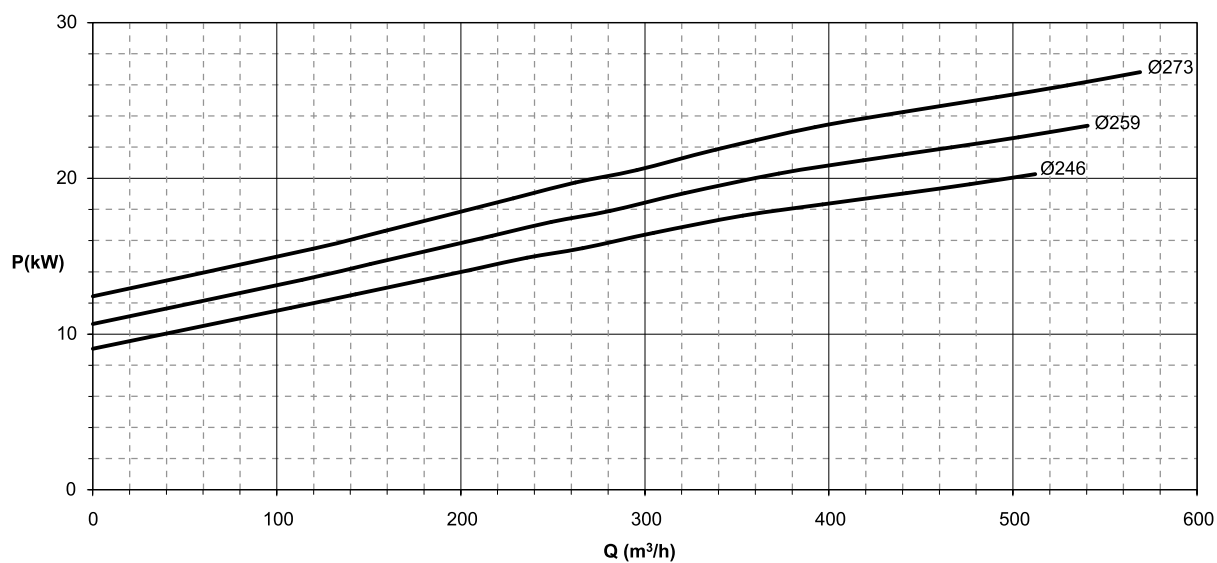
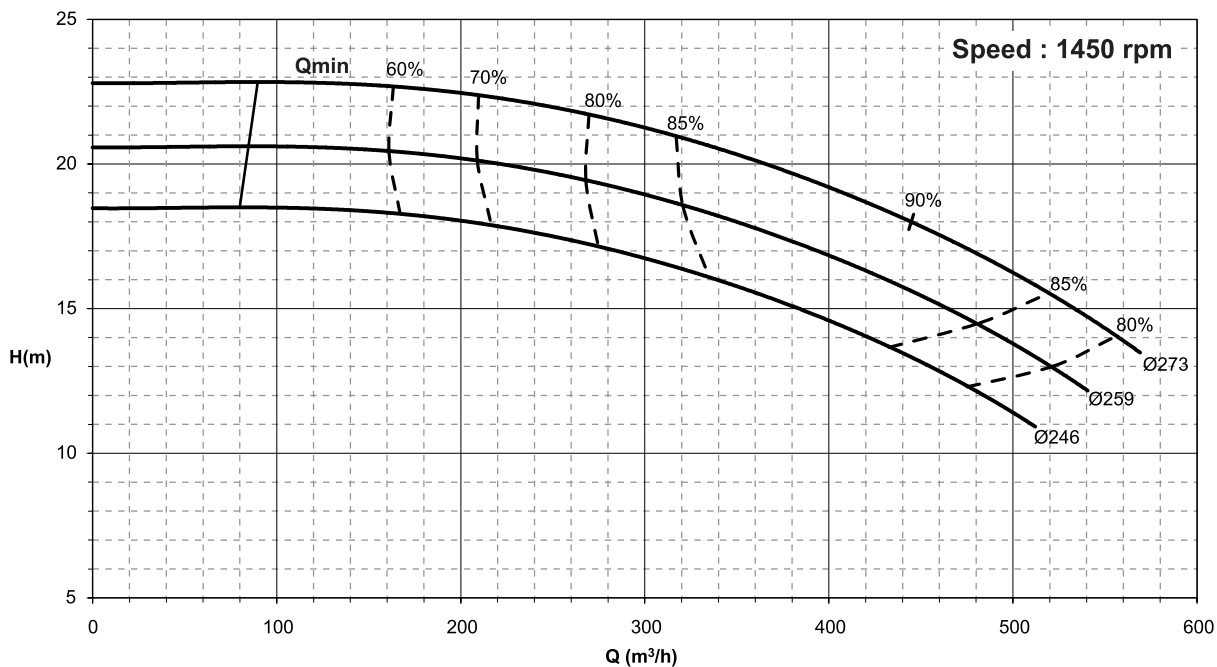




PERFORMANCE CURVE

Pump Model : **ECW-150/250**

Pump Size in mm : **200 x 150**

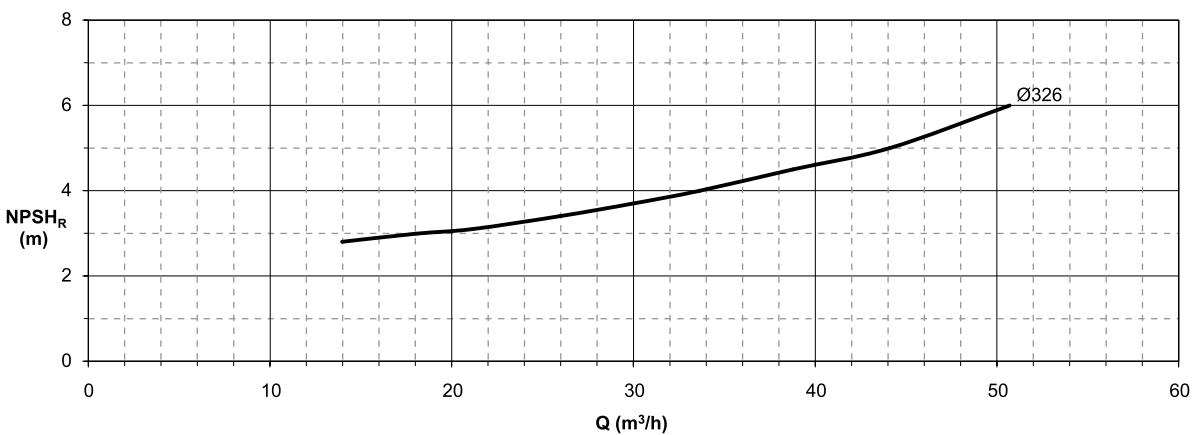
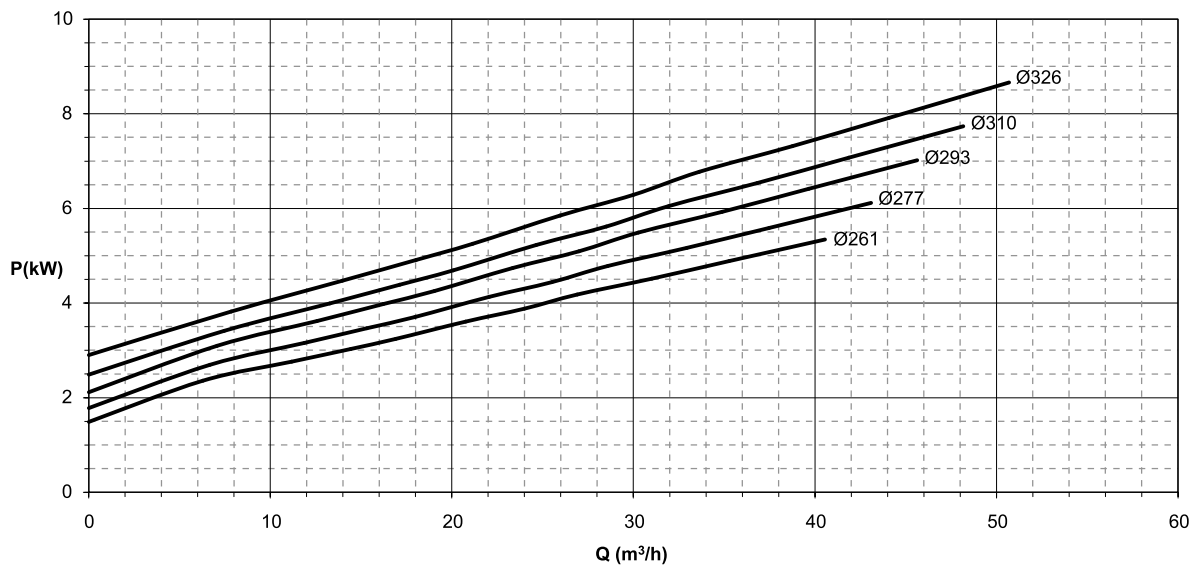
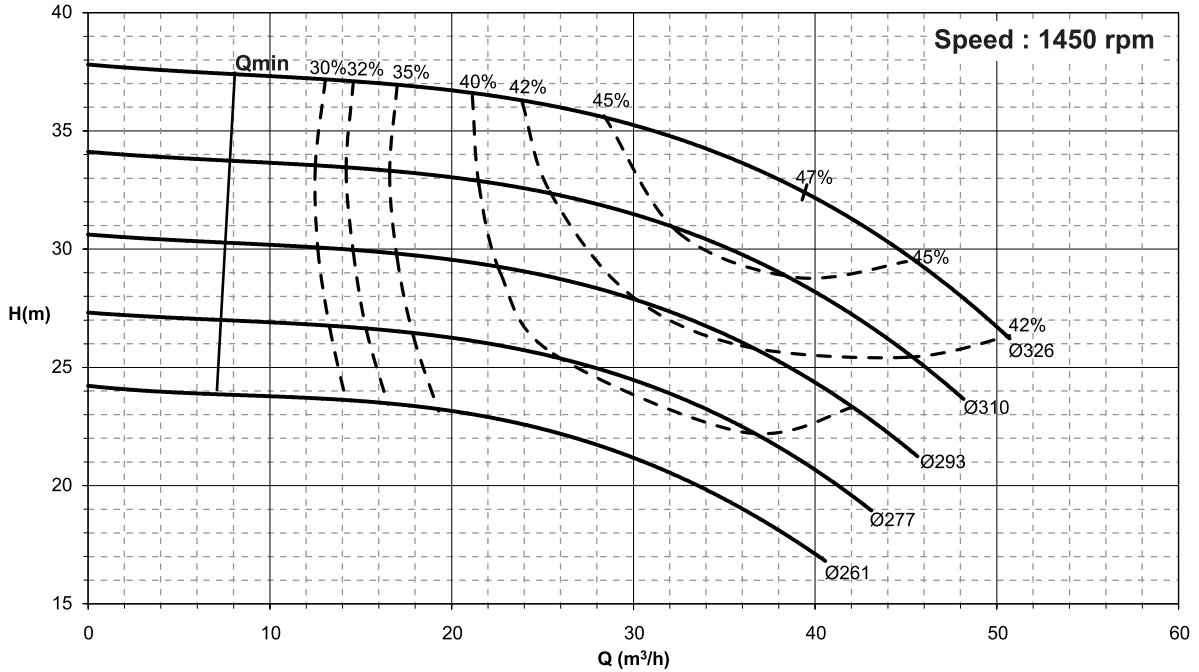




PERFORMANCE CURVE

Pump Model : ECW-40/315

Pump Size in mm : 65 x 40



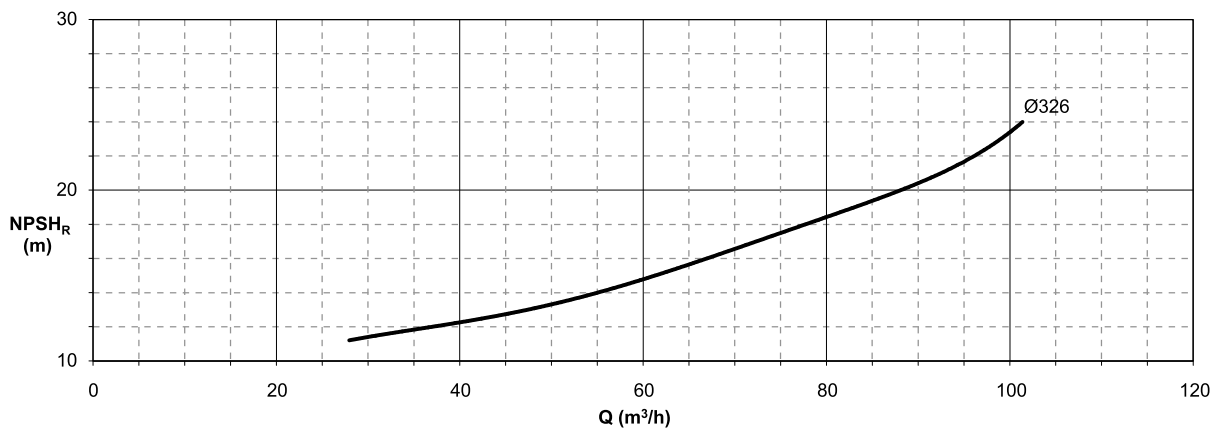
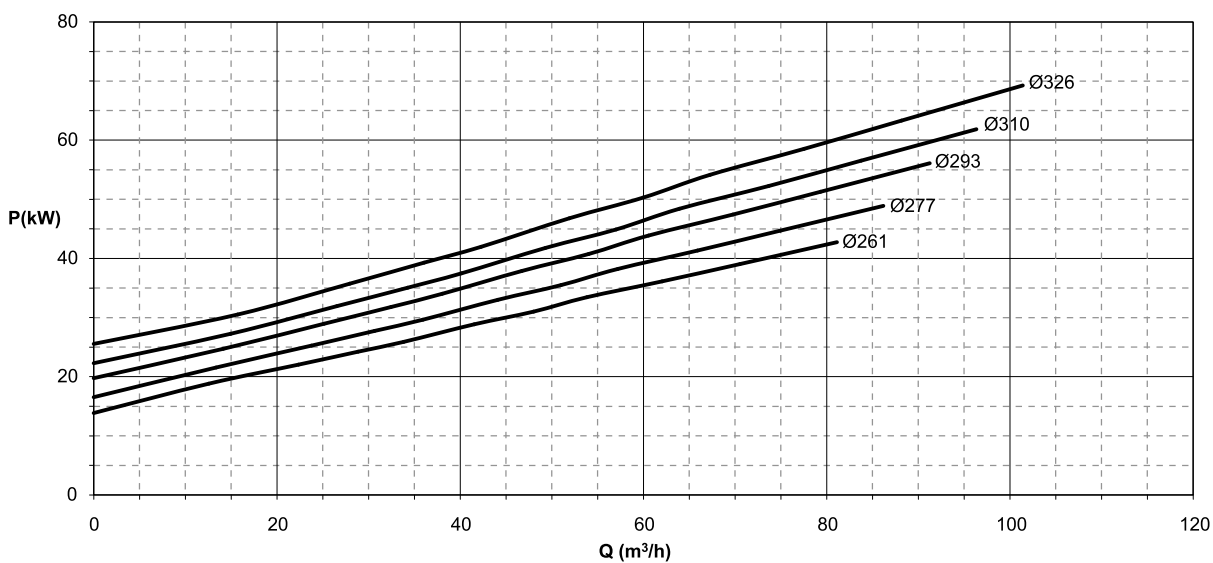
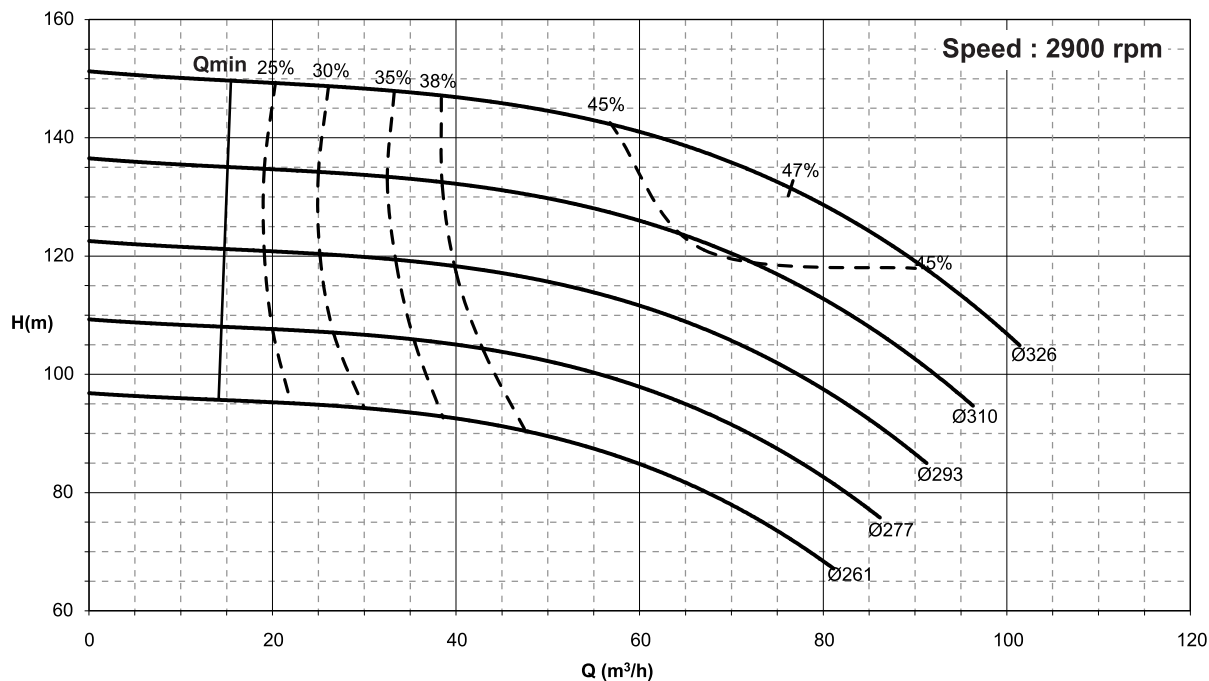


PERFORMANCE CURVE

Pump Model : **ECW-40/315**

On Request

Pump Size in mm : **65 x 40**

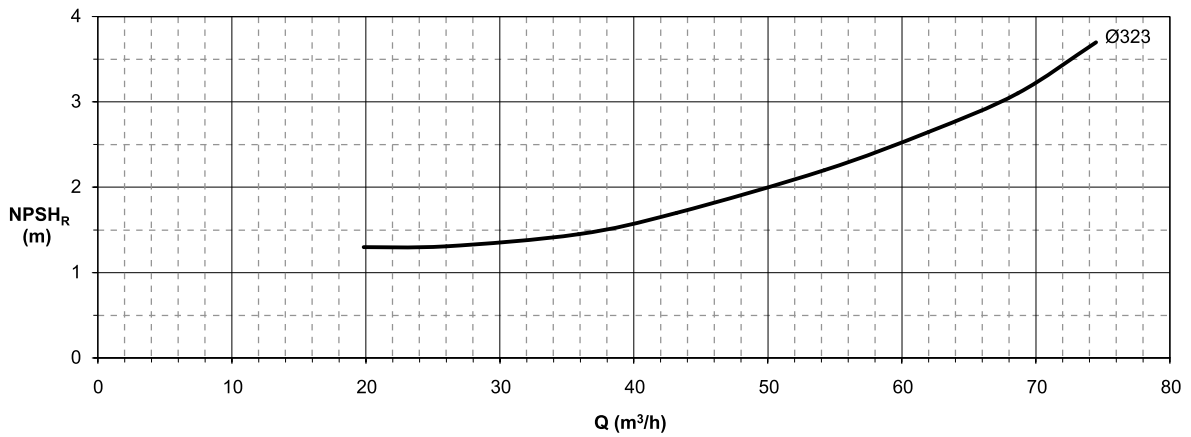
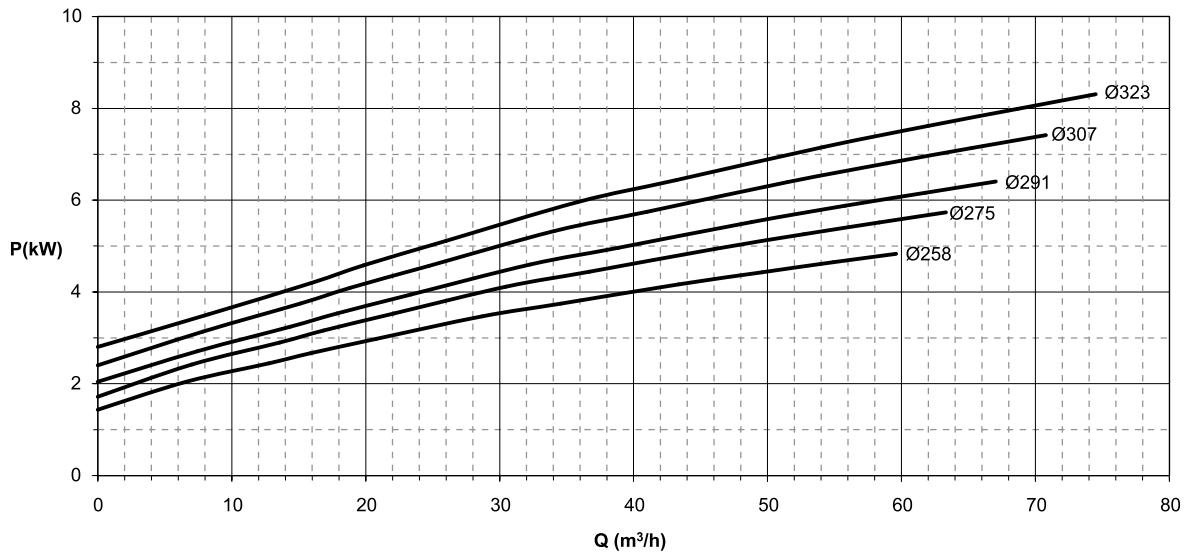
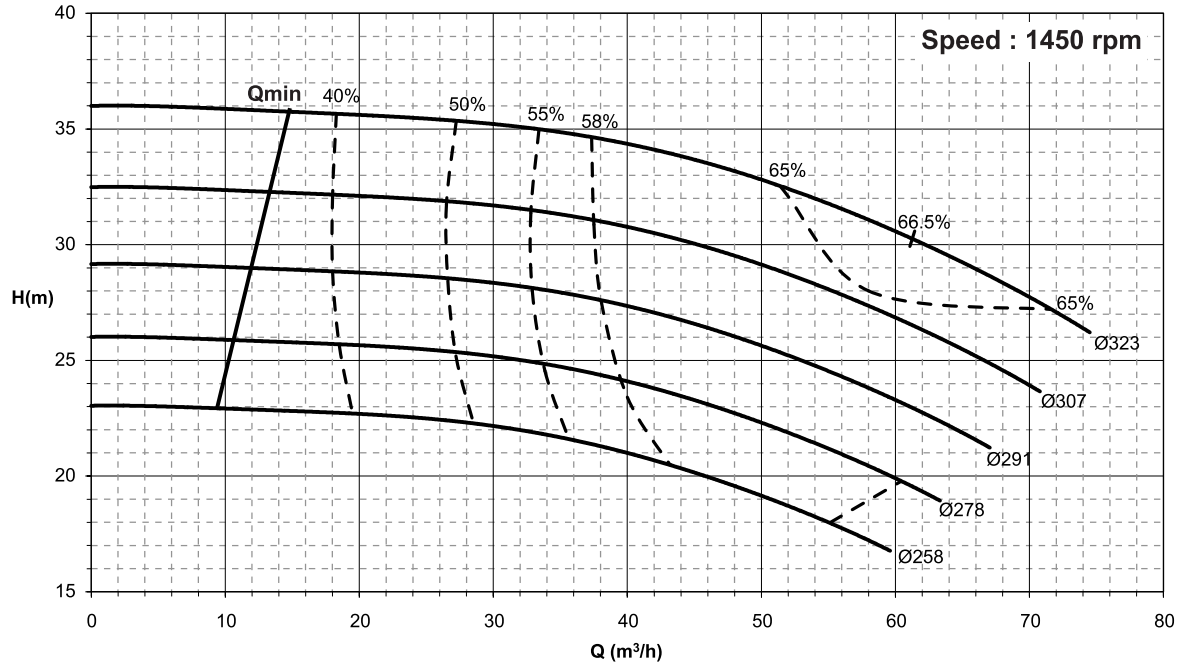




PERFORMANCE CURVE

Pump Model : ECW-50/315

Pump Size in mm : 65 x 50

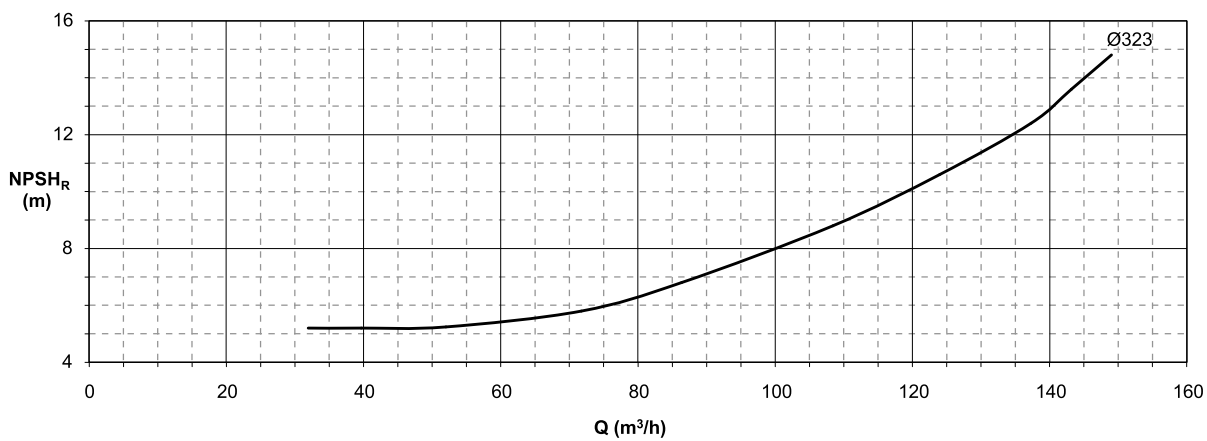
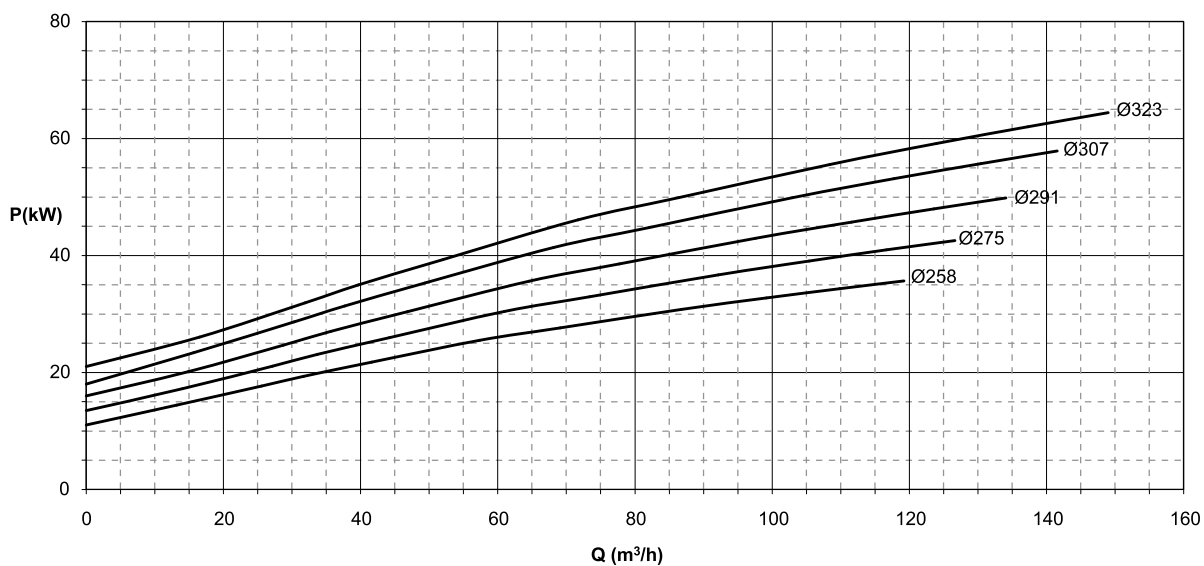
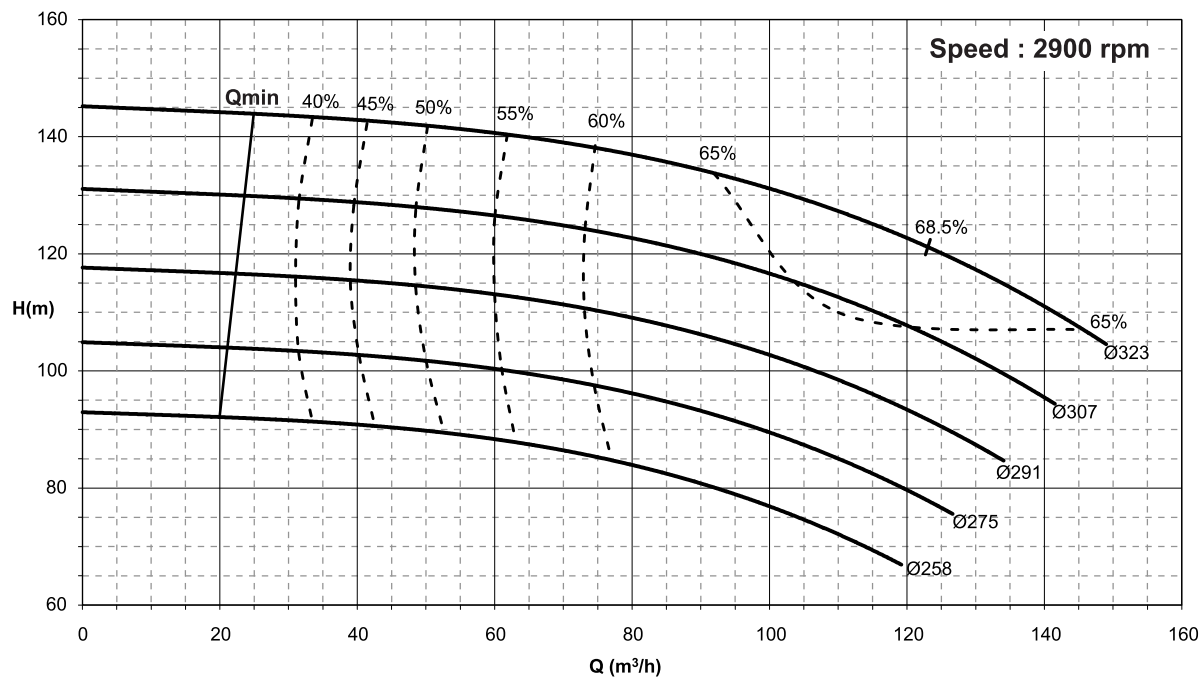




PERFORMANCE CURVE

Pump Model : **ECW-50/315**

Pump Size in mm : **65 x 50**

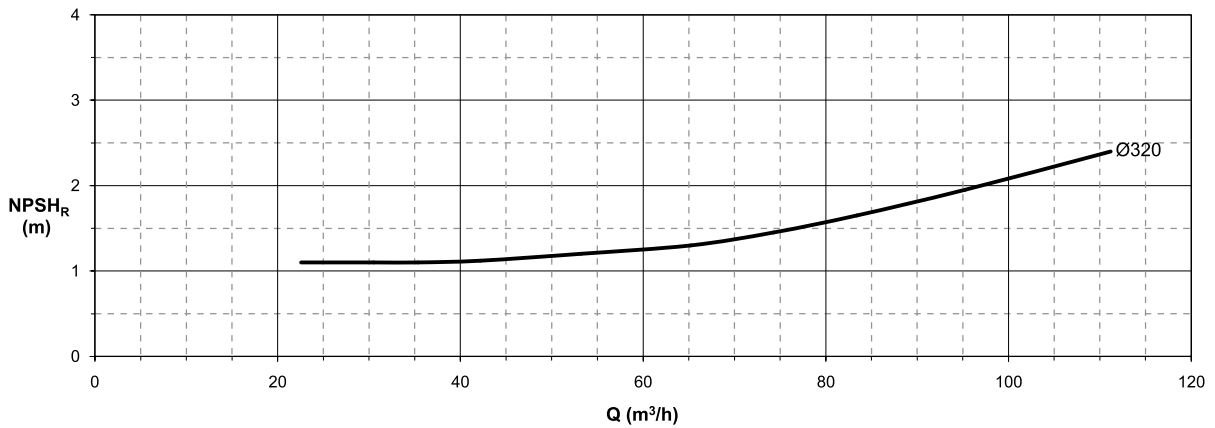
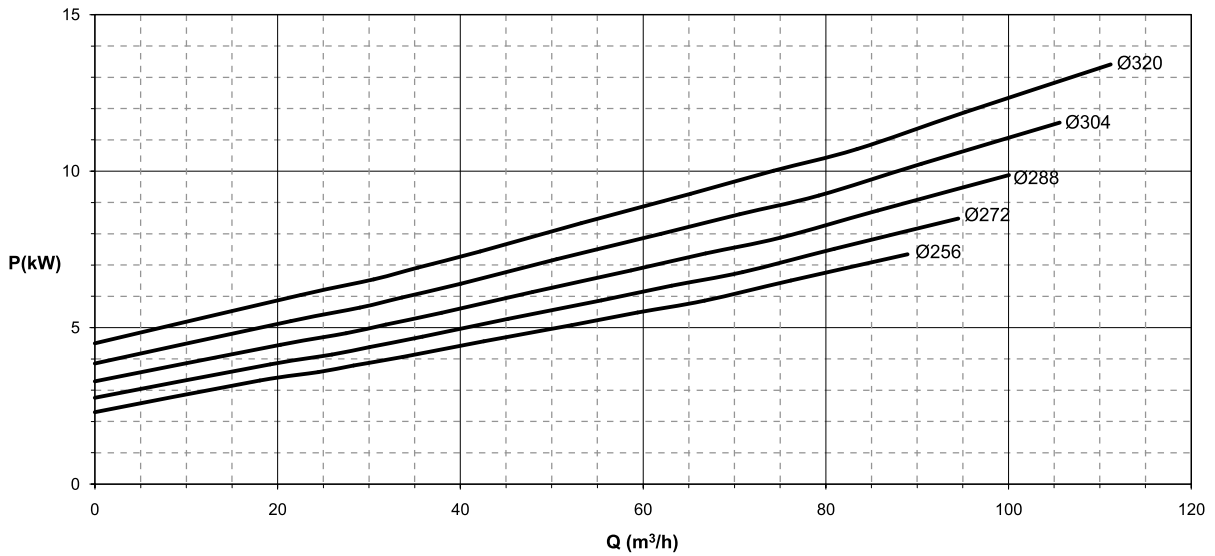
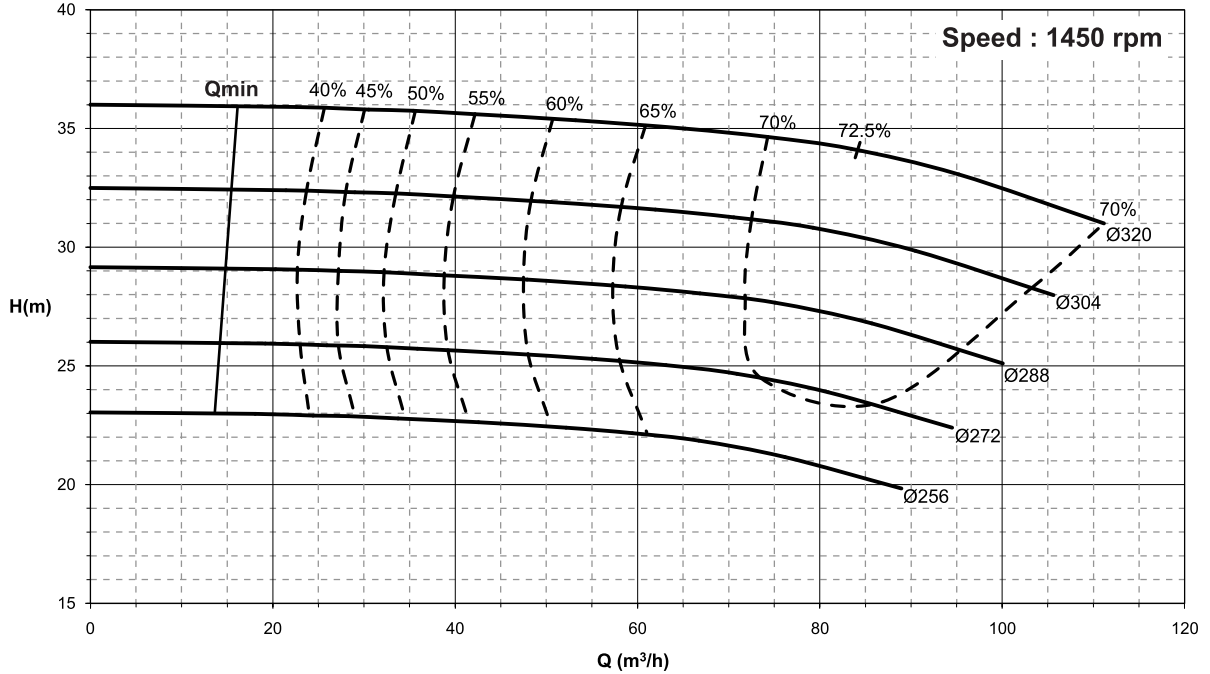




PERFORMANCE CURVE

Pump Model : ECW-65/315

Pump Size in mm : 80 x 65

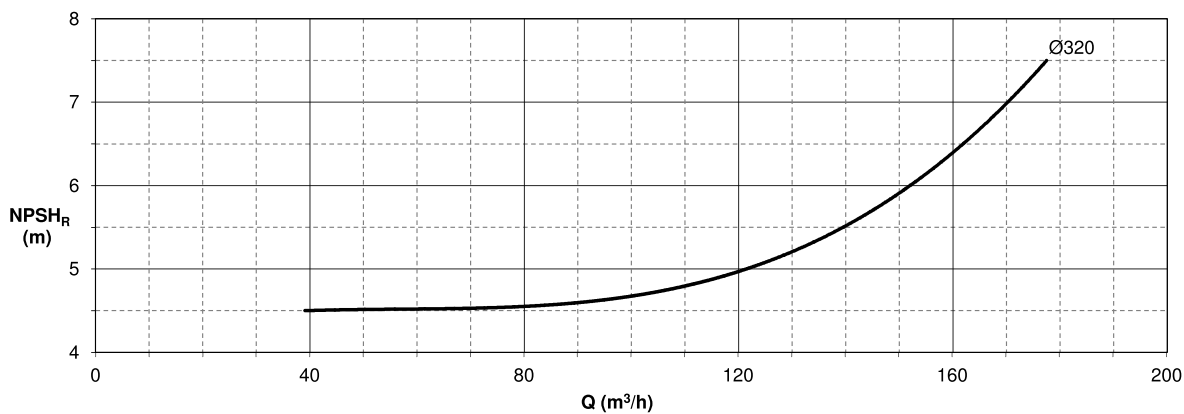
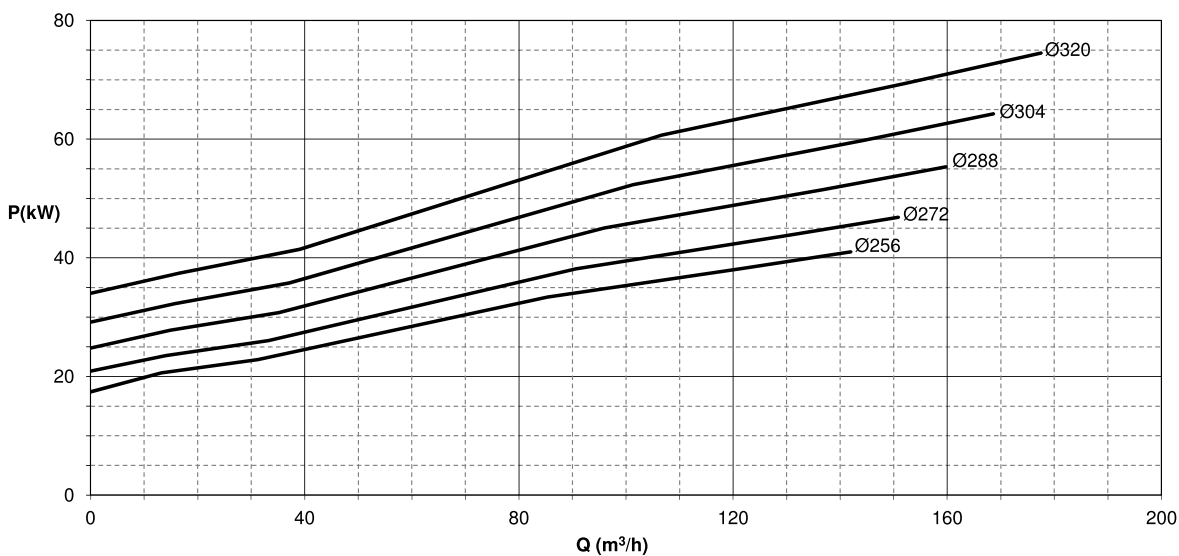
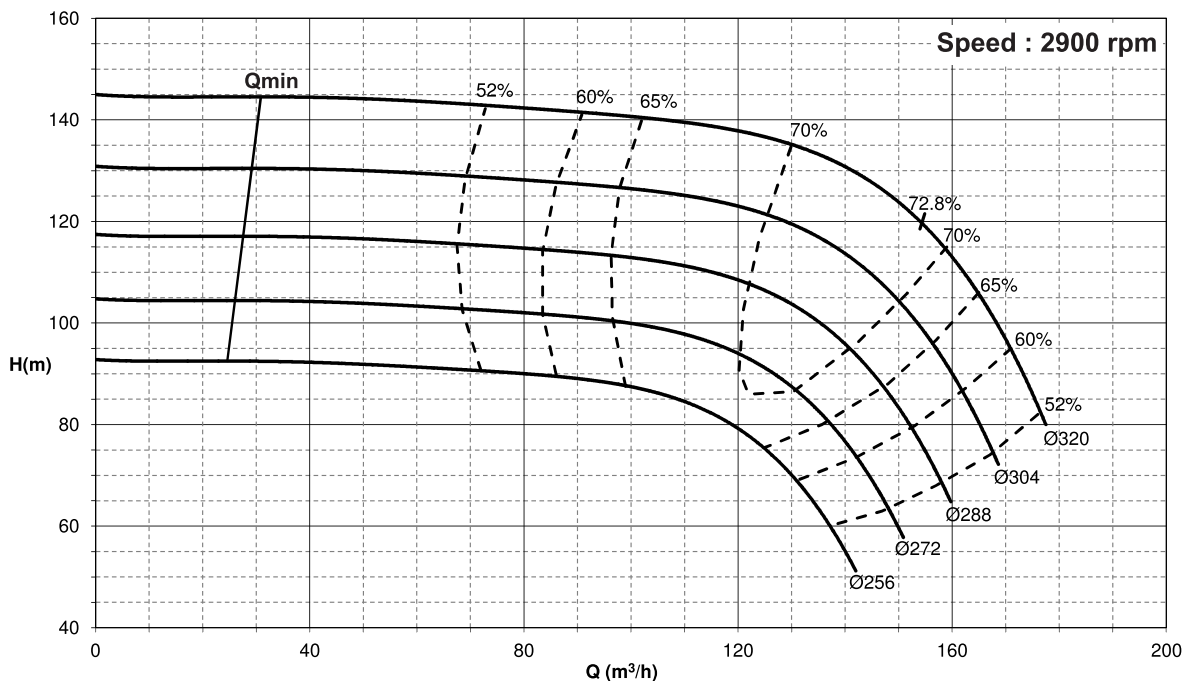




PERFORMANCE CURVE

Pump Model : **ECW-65/315**

Pump Size in mm : **80 x 65**

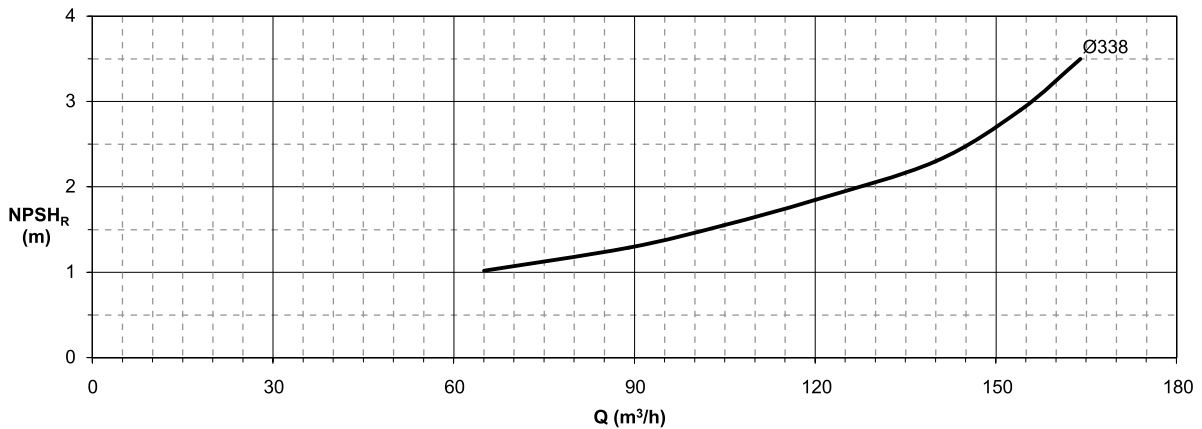
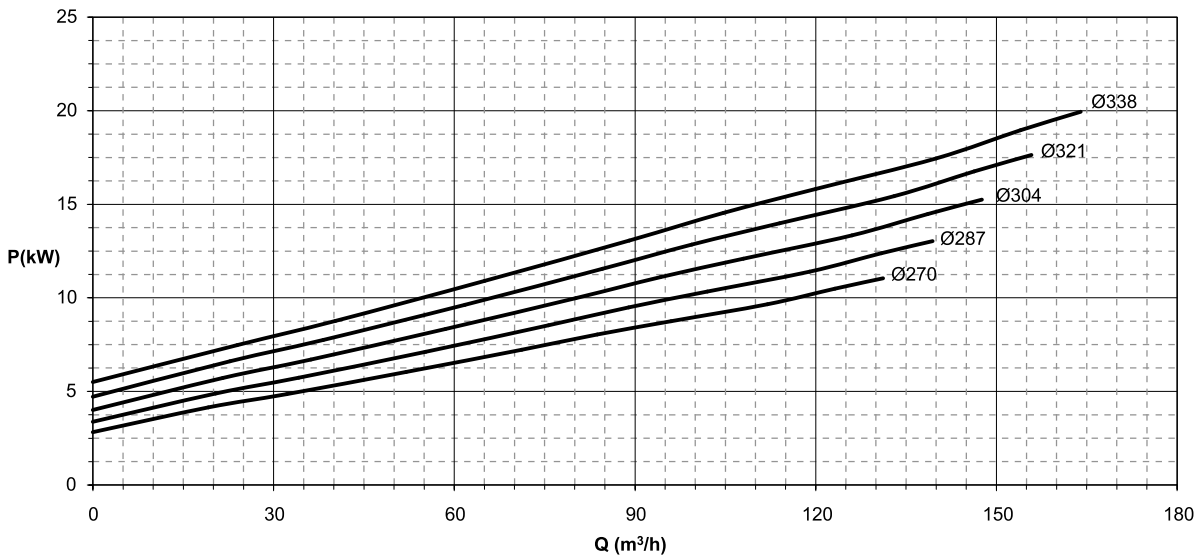
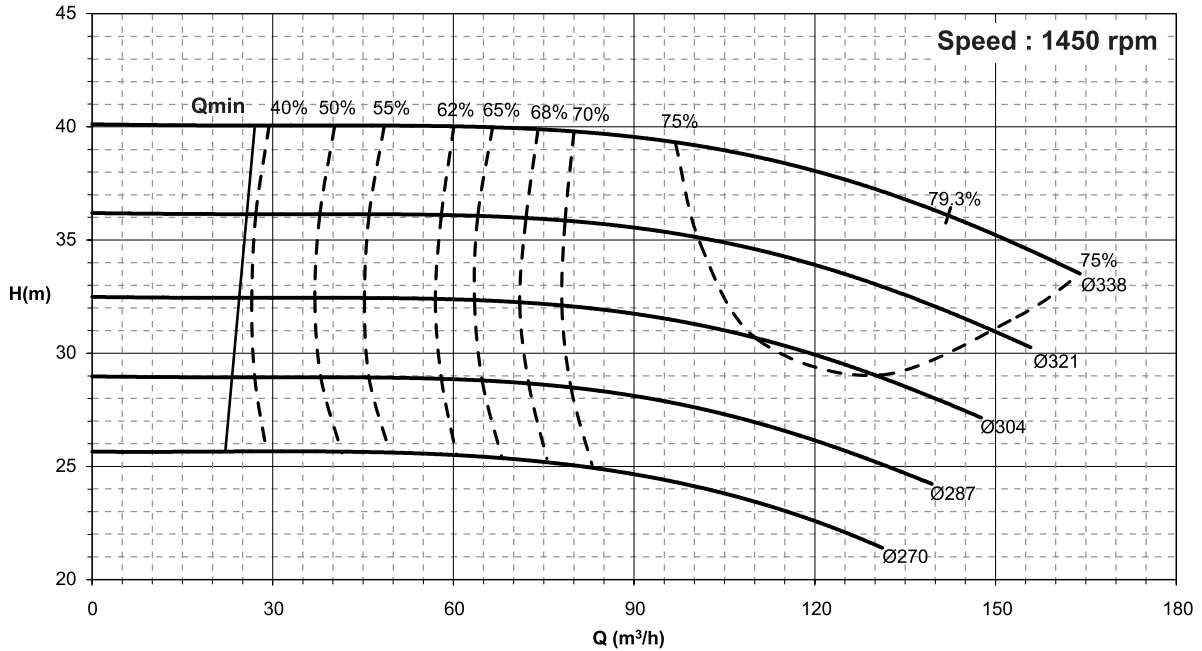




PERFORMANCE CURVE

Pump Model : ECW-80/315

Pump Size in mm : 100 x 80

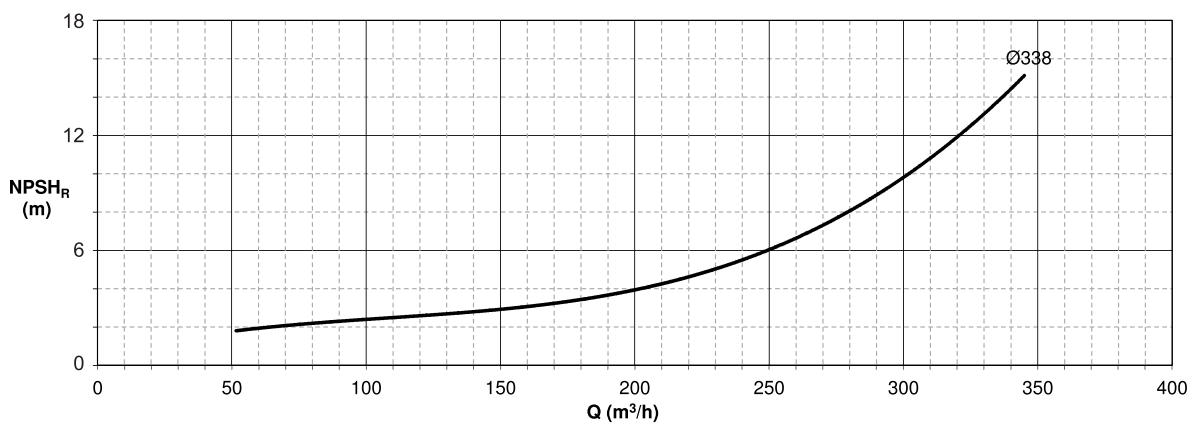
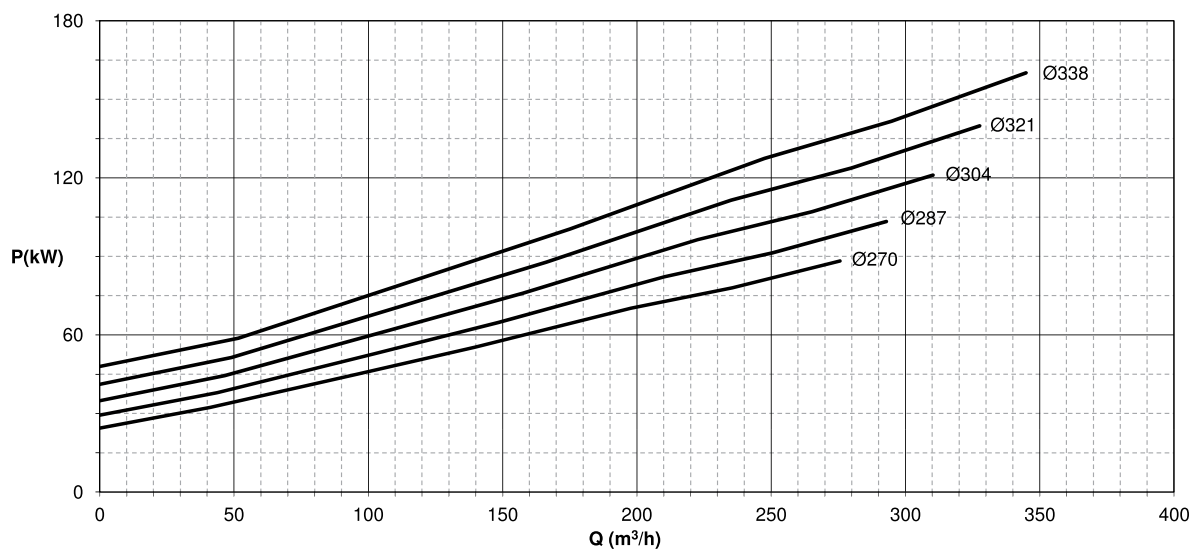
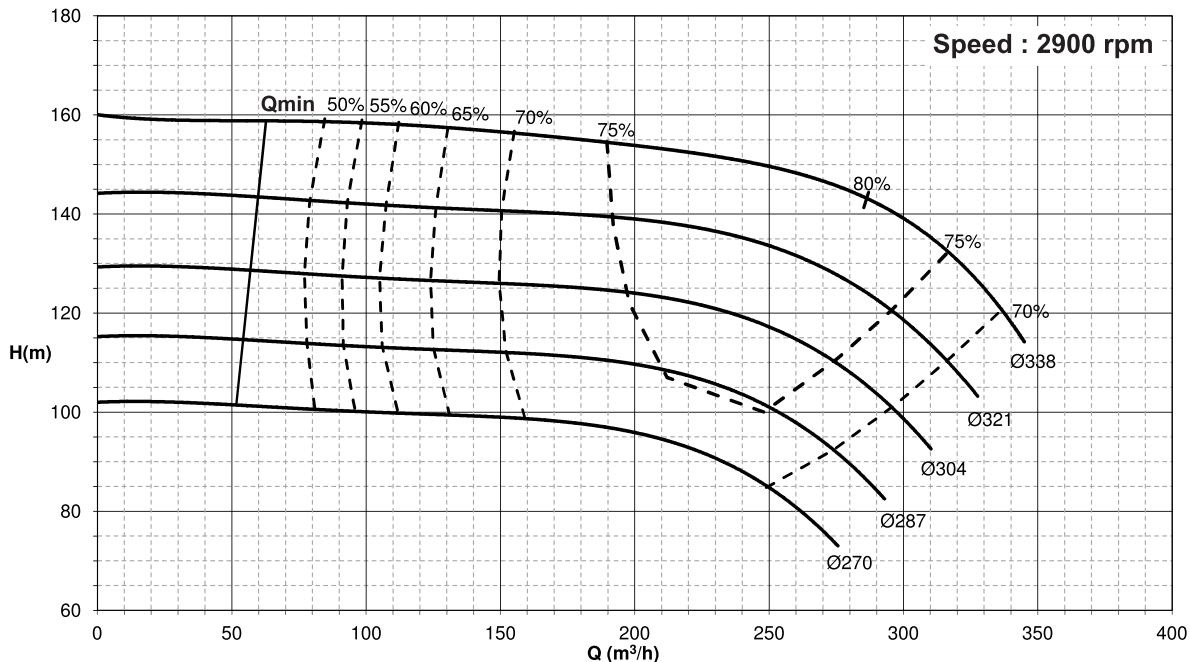




PERFORMANCE CURVE

Pump Model : **ECW-80/315**

Pump Size in mm : **100 x 80**

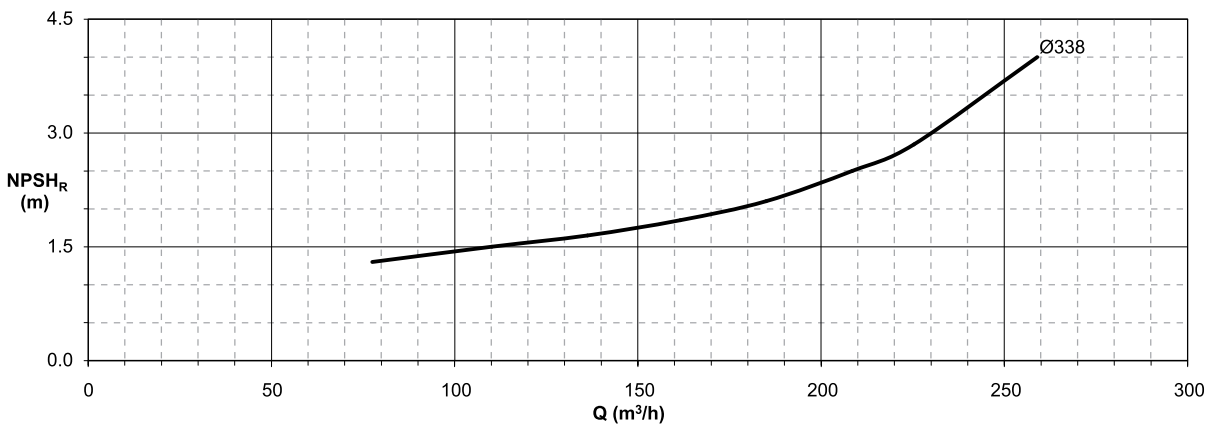
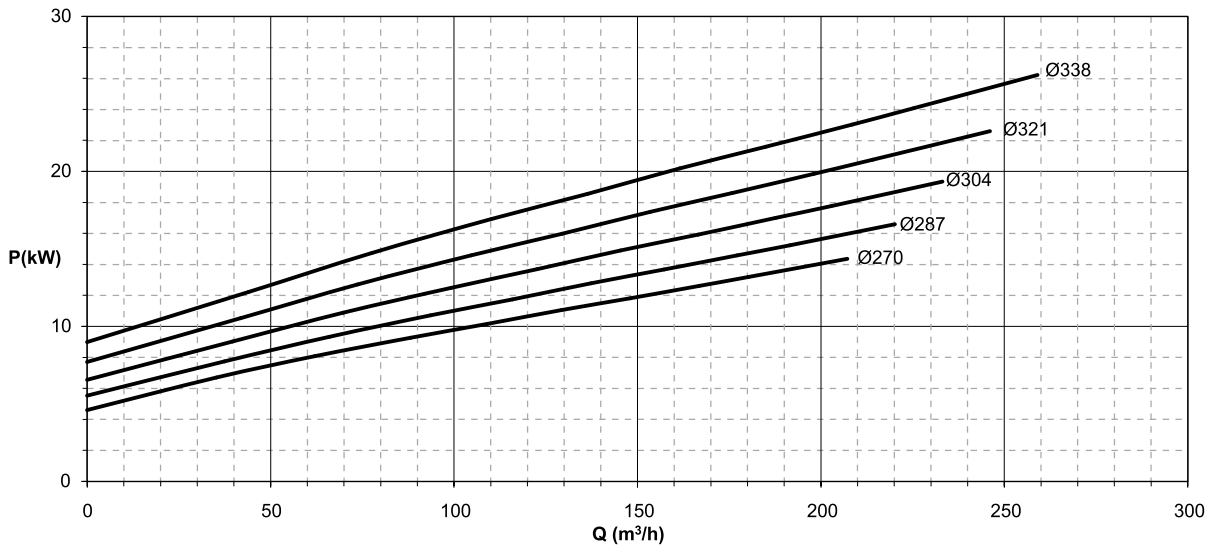
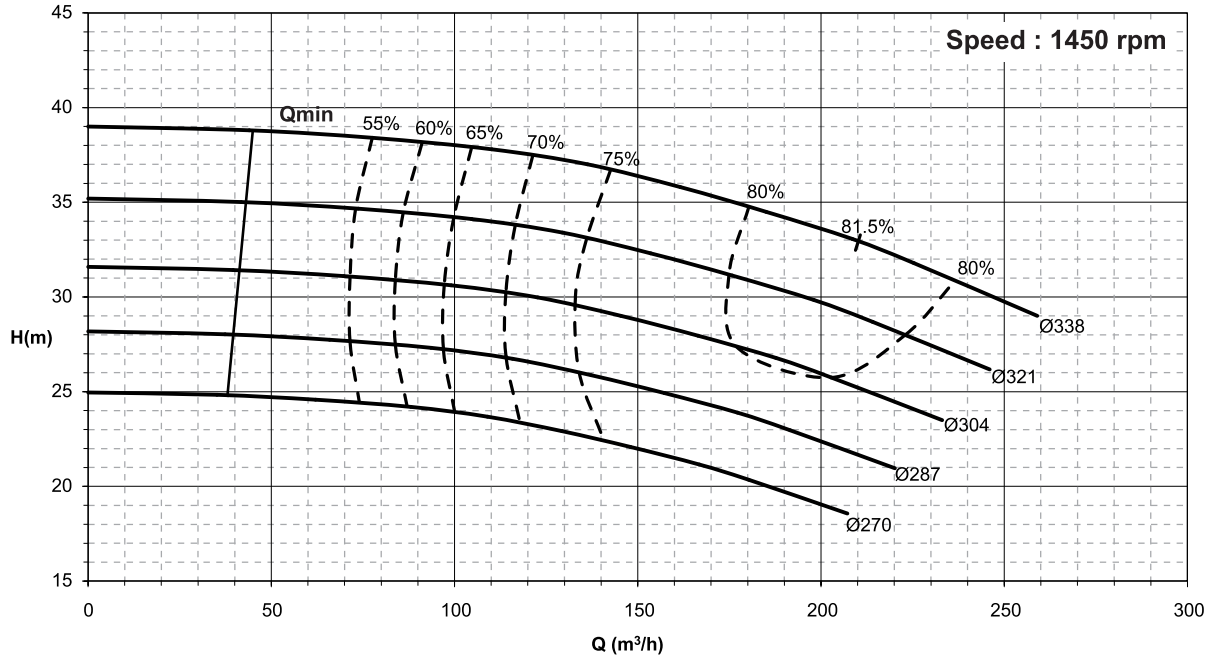




PERFORMANCE CURVE

Pump Model : ECW-100/315

Pump Size in mm : 125 x 100

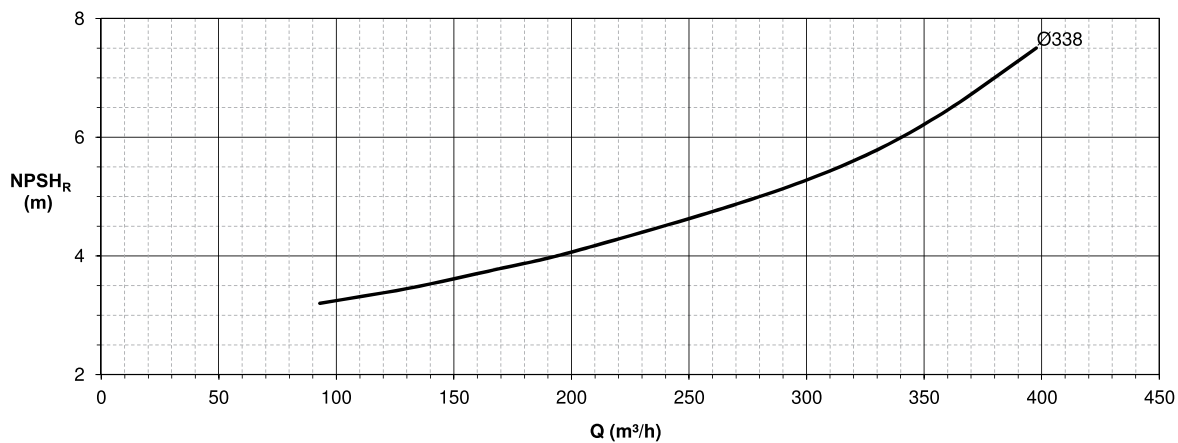
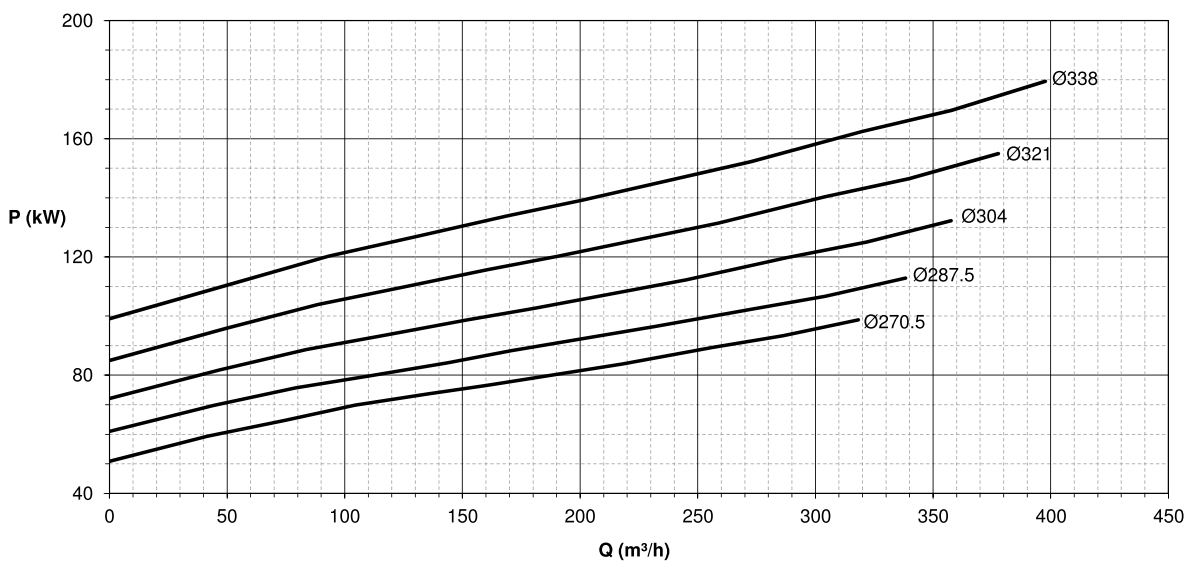
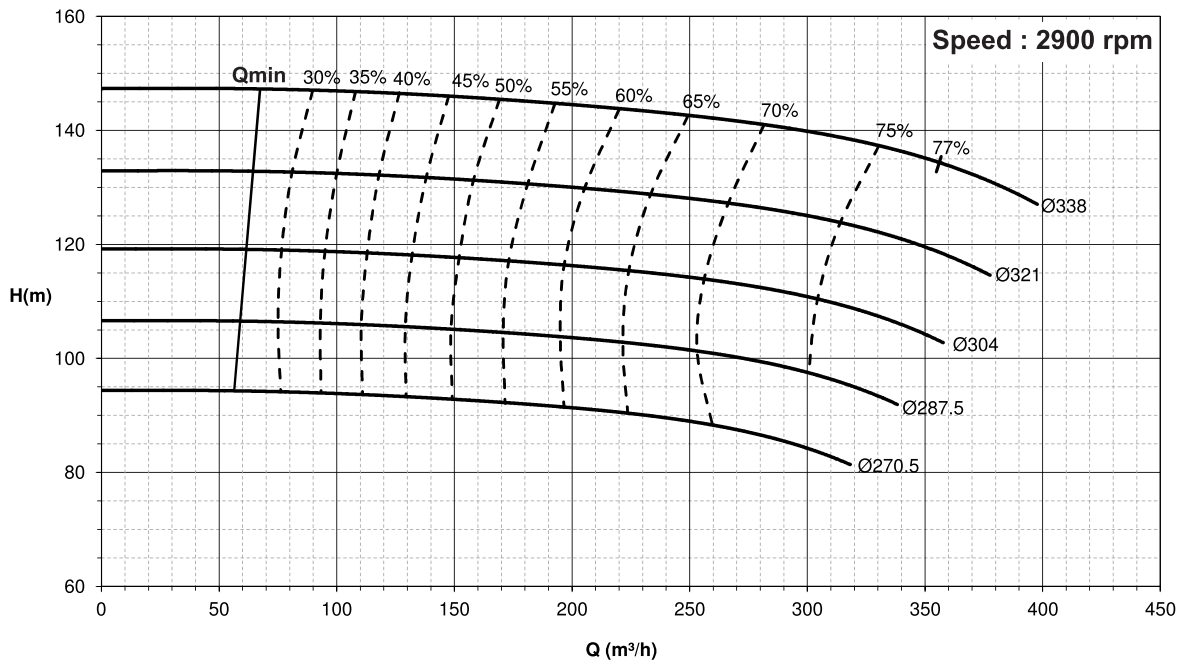




PERFORMANCE CURVE

Pump Model : **ECW-100/315**

Pump Size in mm : **125 x 100**

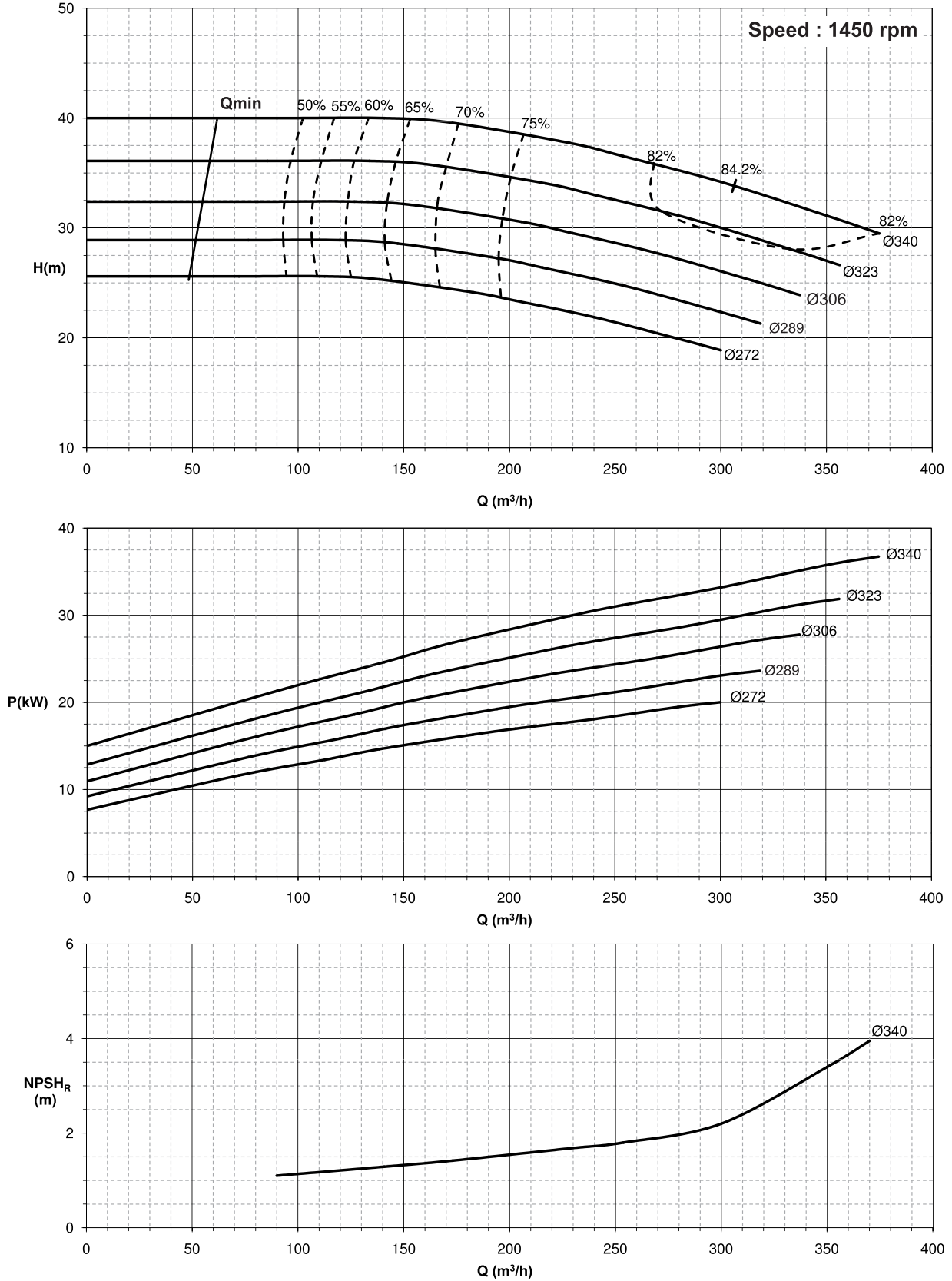




PERFORMANCE CURVE

Pump Model : ECW-125/315

Pump Size in mm : 150 x 125

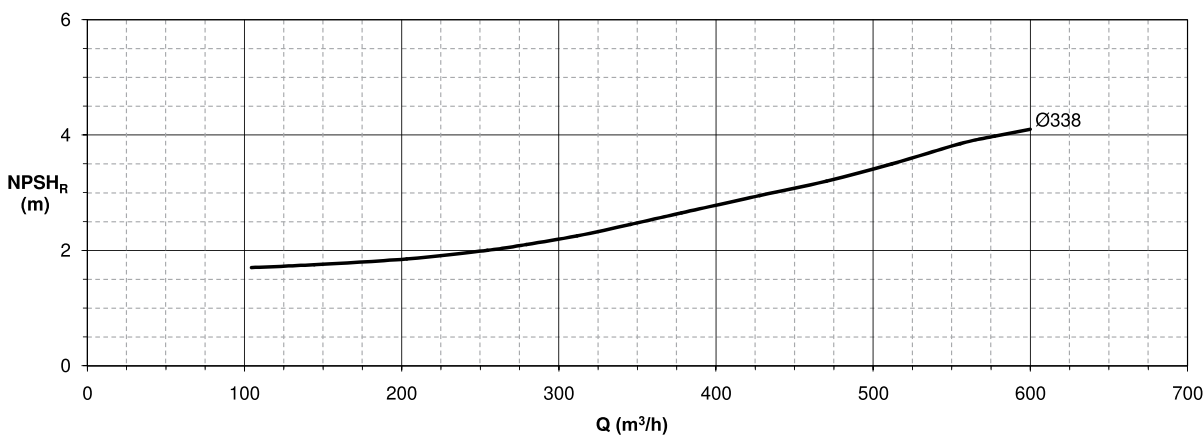
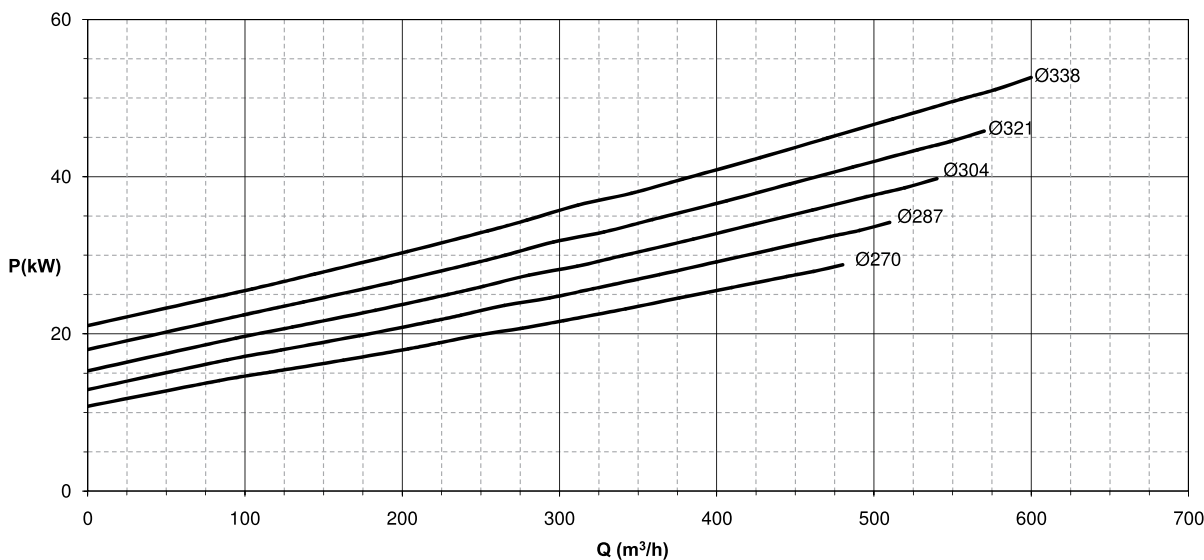
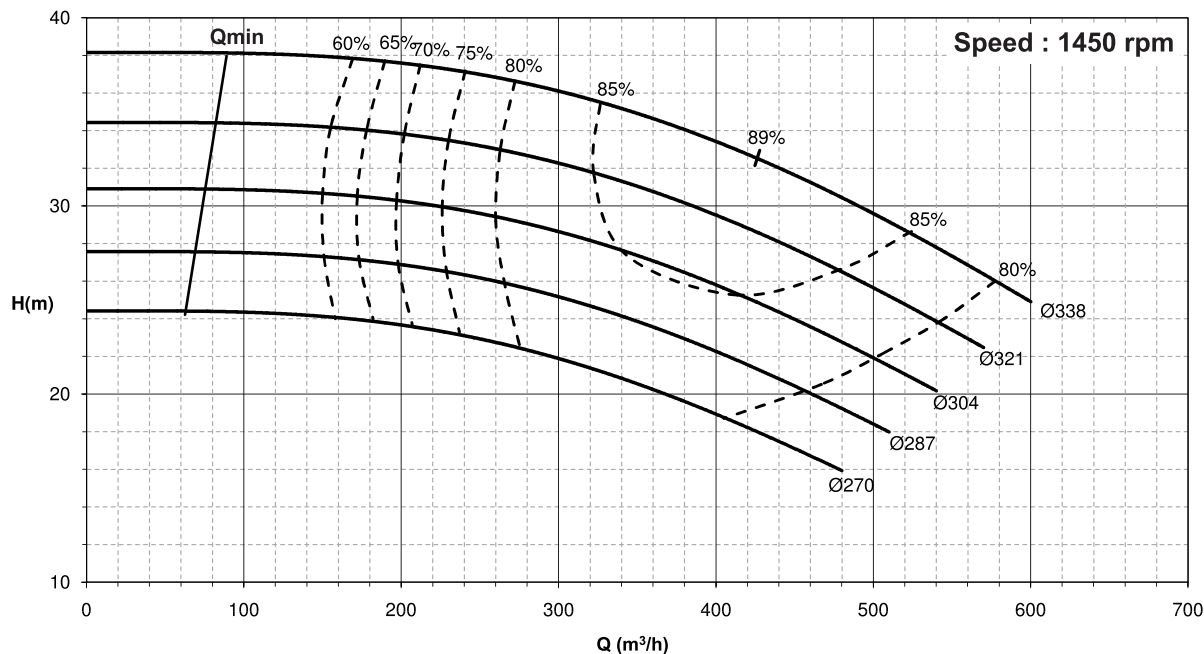




PERFORMANCE CURVE

Pump Model : **ECW-150/315**

Pump Size in mm : **200 x 150**

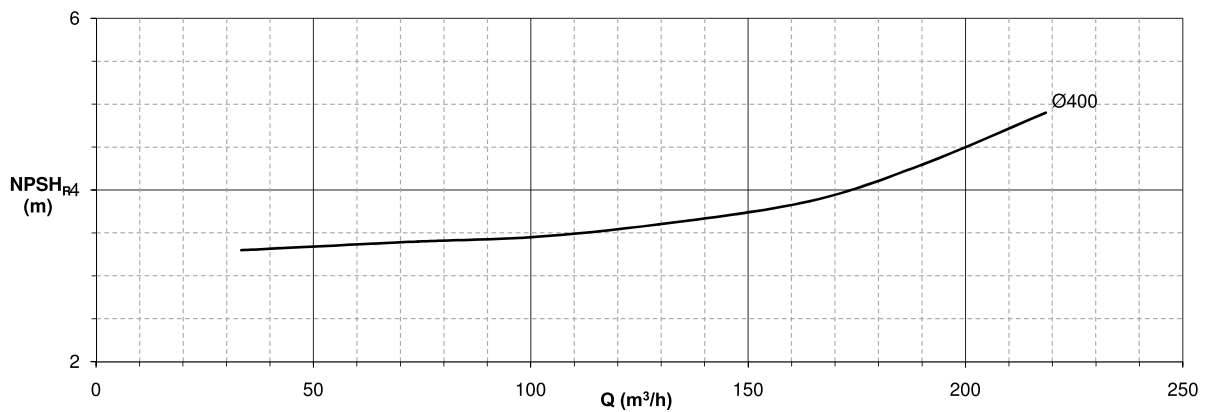
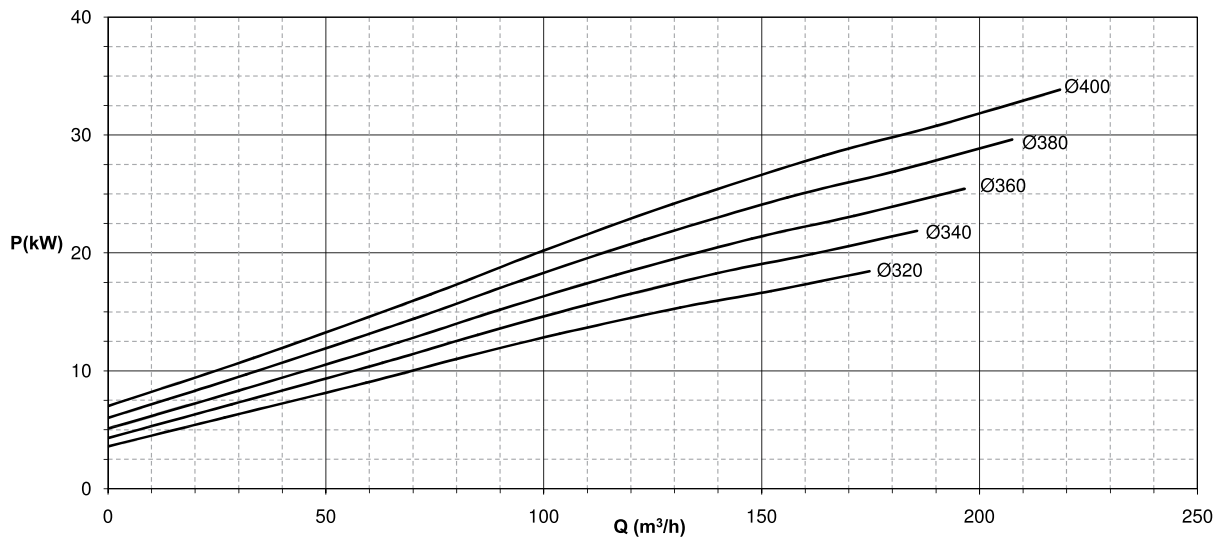
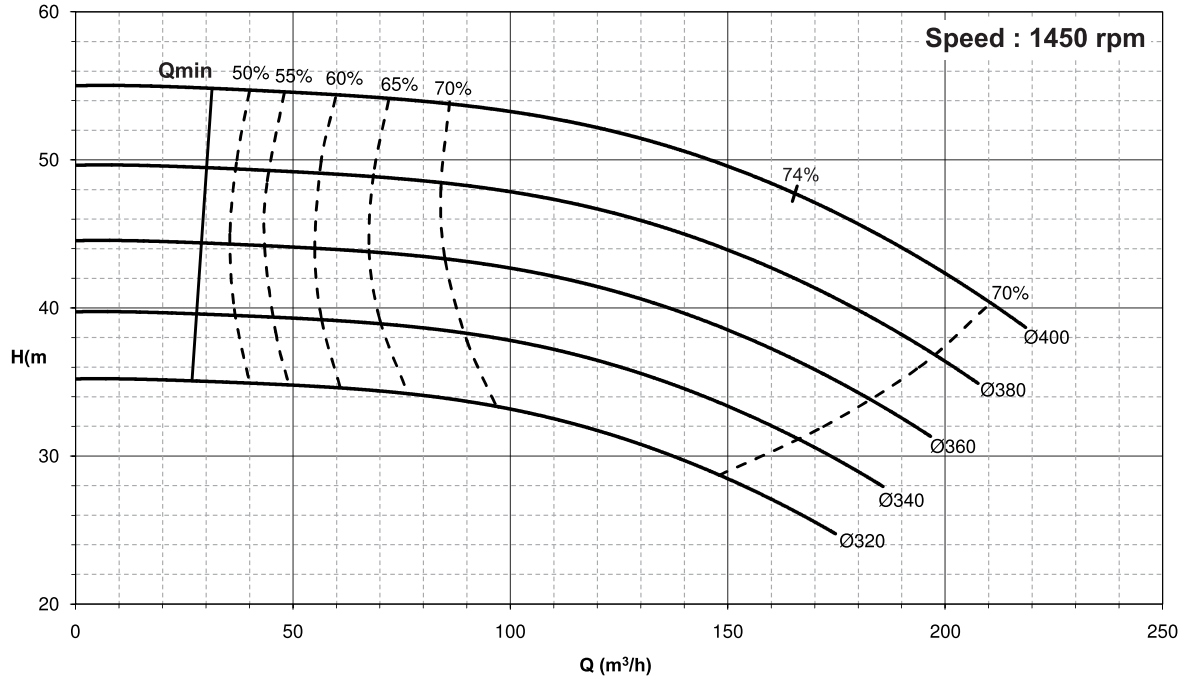




PERFORMANCE CURVE

Pump Model : **ECW-80/400**

Pump Size in mm : **100 x 80**

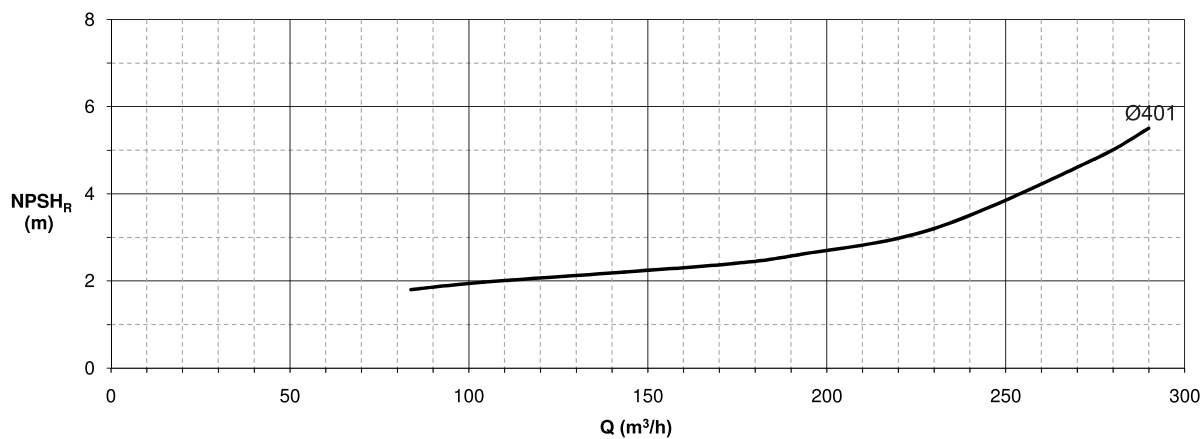
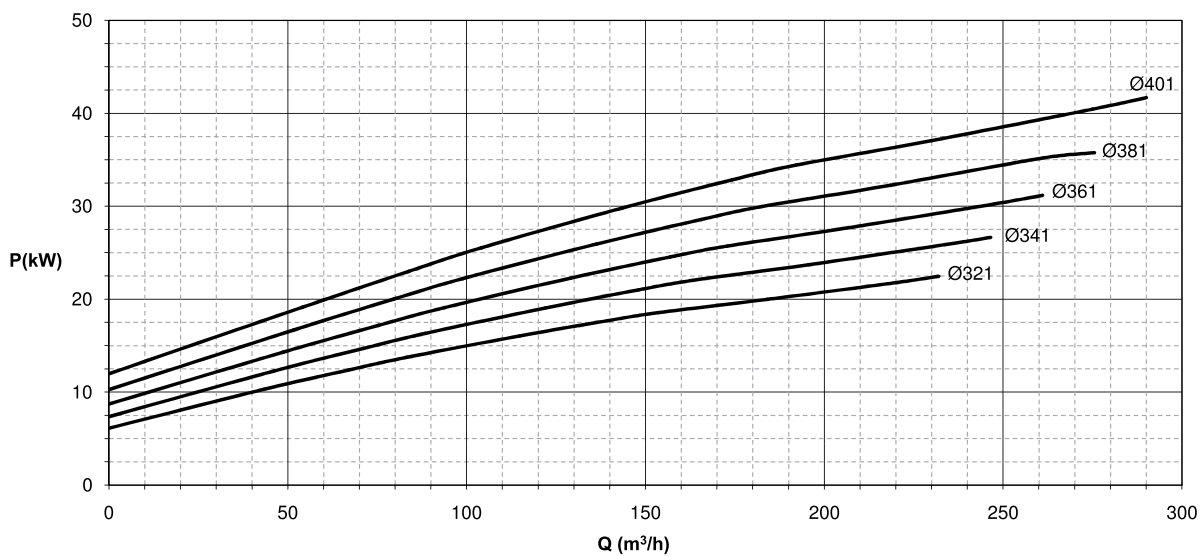
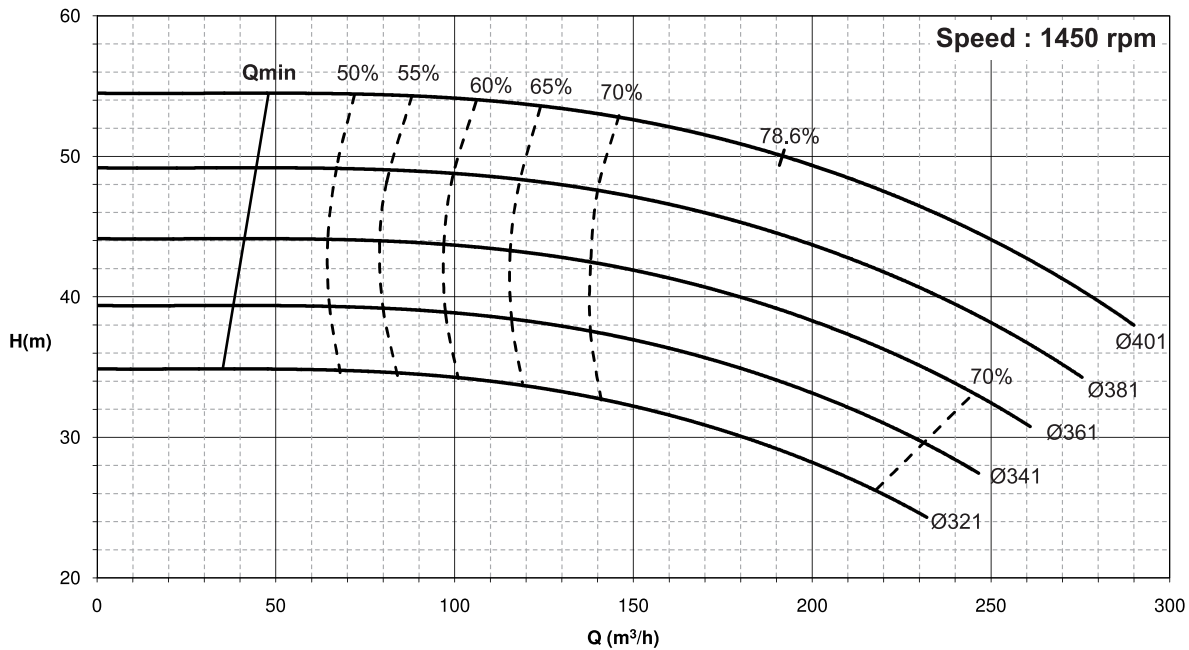




PERFORMANCE CURVE

Pump Model : **ECW-100/400**

Pump Size in mm : **125 x 100**

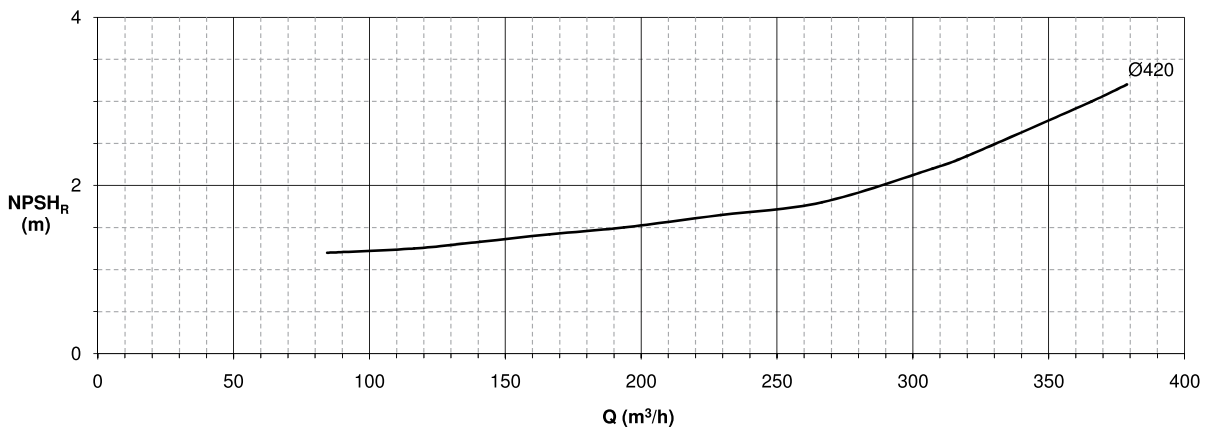
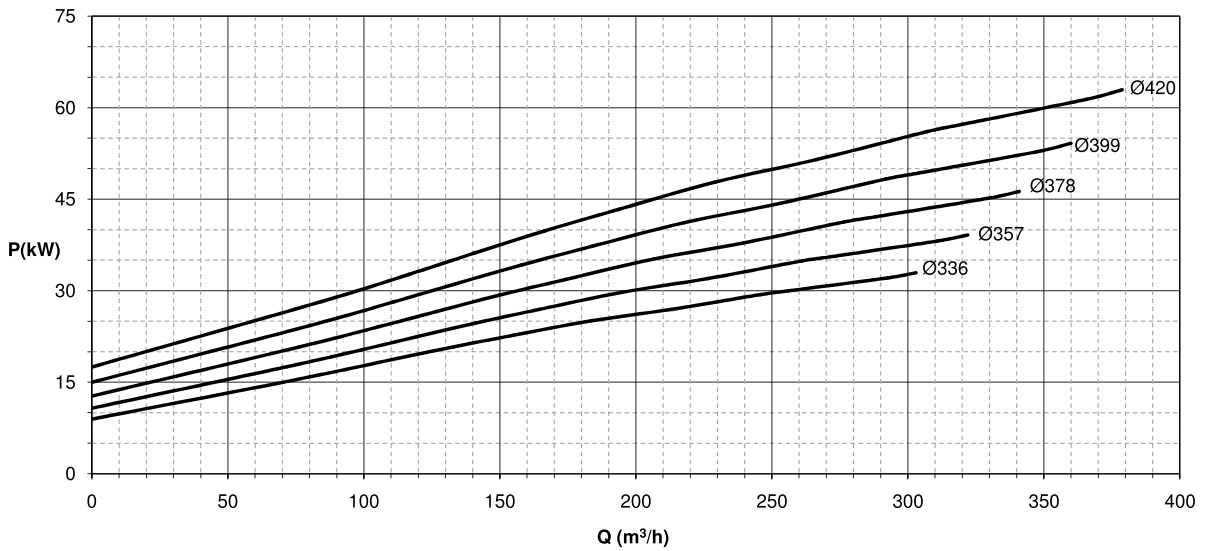
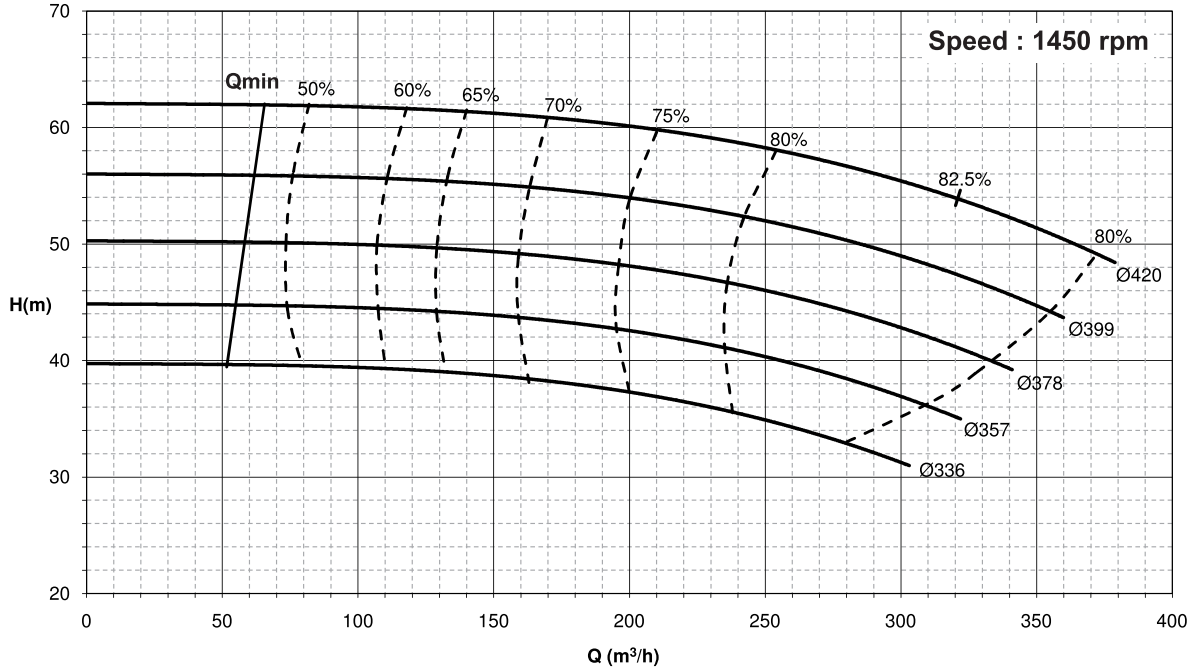




PERFORMANCE CURVE

Pump Model : ECW-125/400

Pump Size in mm : 150 x 125

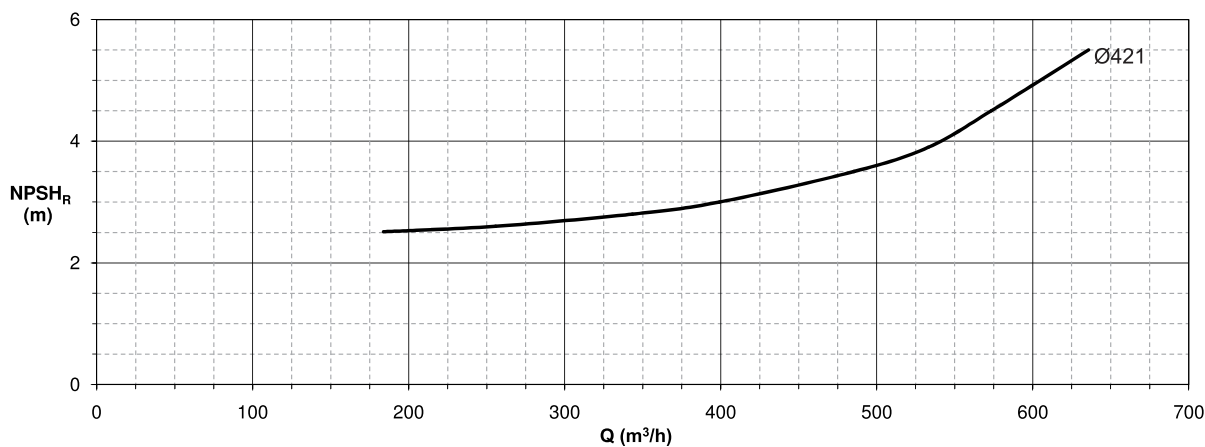
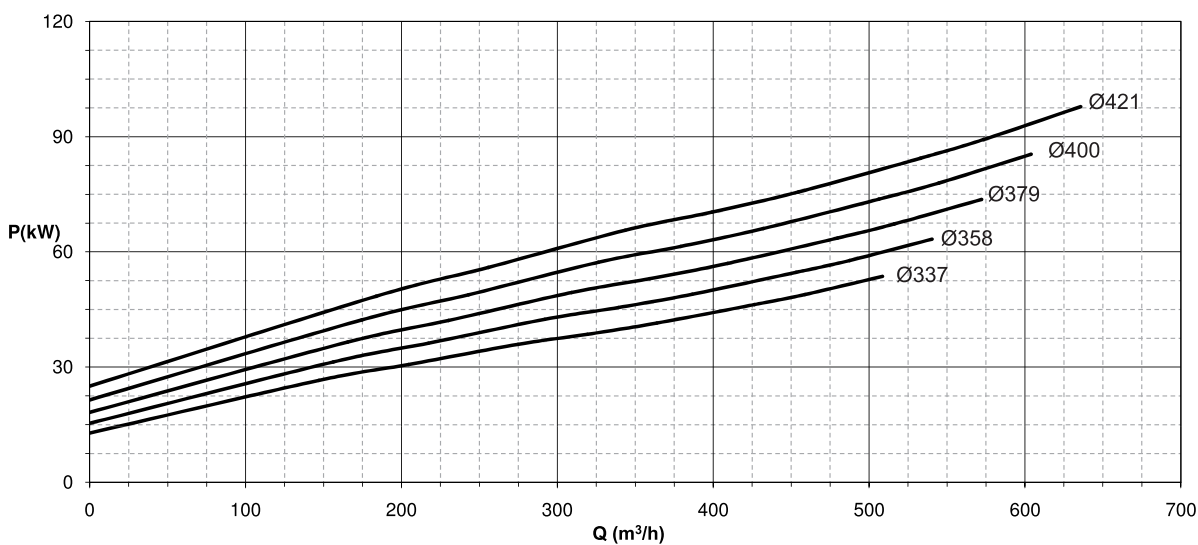
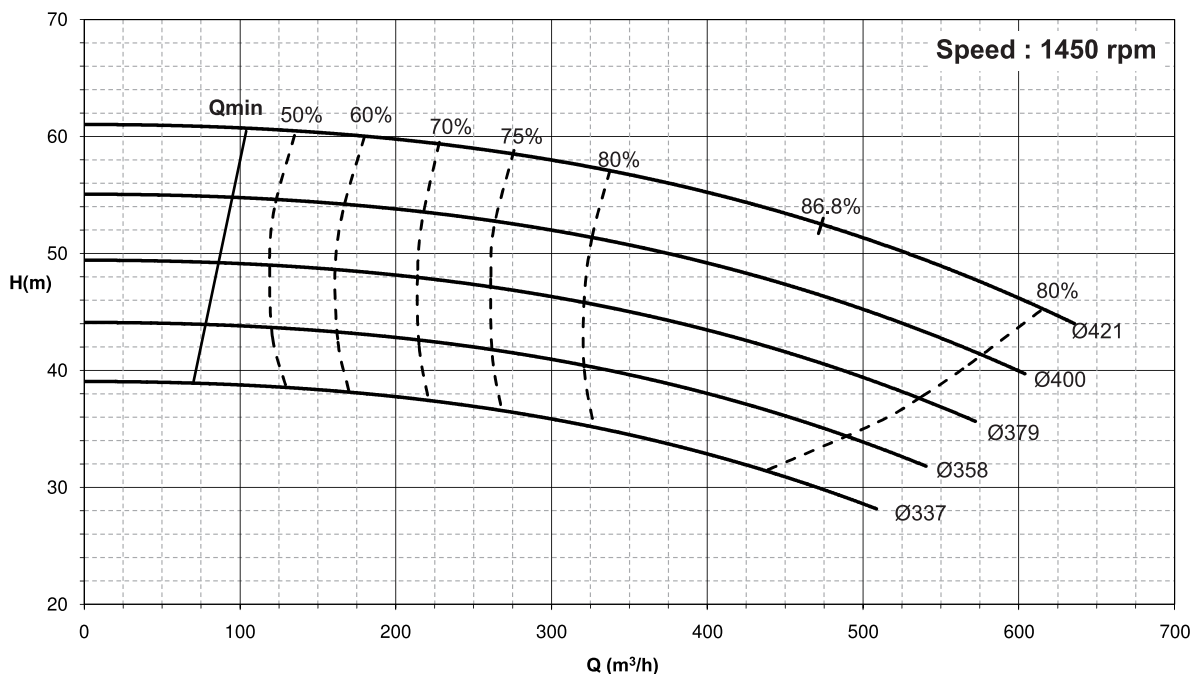




PERFORMANCE CURVE

Pump Model : **ECW-150/400**

Pump Size in mm : **200 x 150**



GENERAL INFORMATION - ECM SERIES

End Suction Centrifugal Mixed Flow Pumps



CONSTRUCTION

C.R.I. End suction mixed flow pumps are horizontal single stage volute casing pumps with discharge port are centerline discharge tangentially vertical/horizontal. These pumps features horizontal shaft components with axial suction and impellers are designed and radial discharge ports. Pumps volute chamber and impellers are carefully designed to give the best possible hydraulic and suction lift characteristics.

Most modern and highly sophisticated machinery and technology are employed in the manufacture of these pumps using quality raw material, dynamically balanced impellers, seal and bearings to ensure long life.

FEATURES

- Designed to allow interchangeability of their component between all individual pump sizes.
- Minimizes shaft deflection maximizes bearing and mechanical seal life.
- Heavy duty bearing ensures long life.
- Back pull out design.
- Dimensions and characteristics conforming to ISO 2858 standards.
- Available both in mechanical seal and soft packed stuffing box design.

APPLICATIONS

- Water supply systems.
- Irrigation systems.
- Pressure boosting systems.
- Fire Fighting systems.
- Heating ventilation and air conditioning systems.
- Circulation and transfer of clean, chemically non-aggressive water and other liquids.
- General utility services in Industries.

GENERAL INFORMATION - ECM SERIES

End Suction Centrifugal Mixed Flow Pumps

LIMITATIONS

Outlet size range	: DN 200 to DN 450mm
Flow range	: Upto 3600 m ³ /h
Total Head range	: Upto 45m
Max. Operating temperature	: 60°C
Max. working pressure	: 16bar

MATERIALS OF CONSTRUCTION

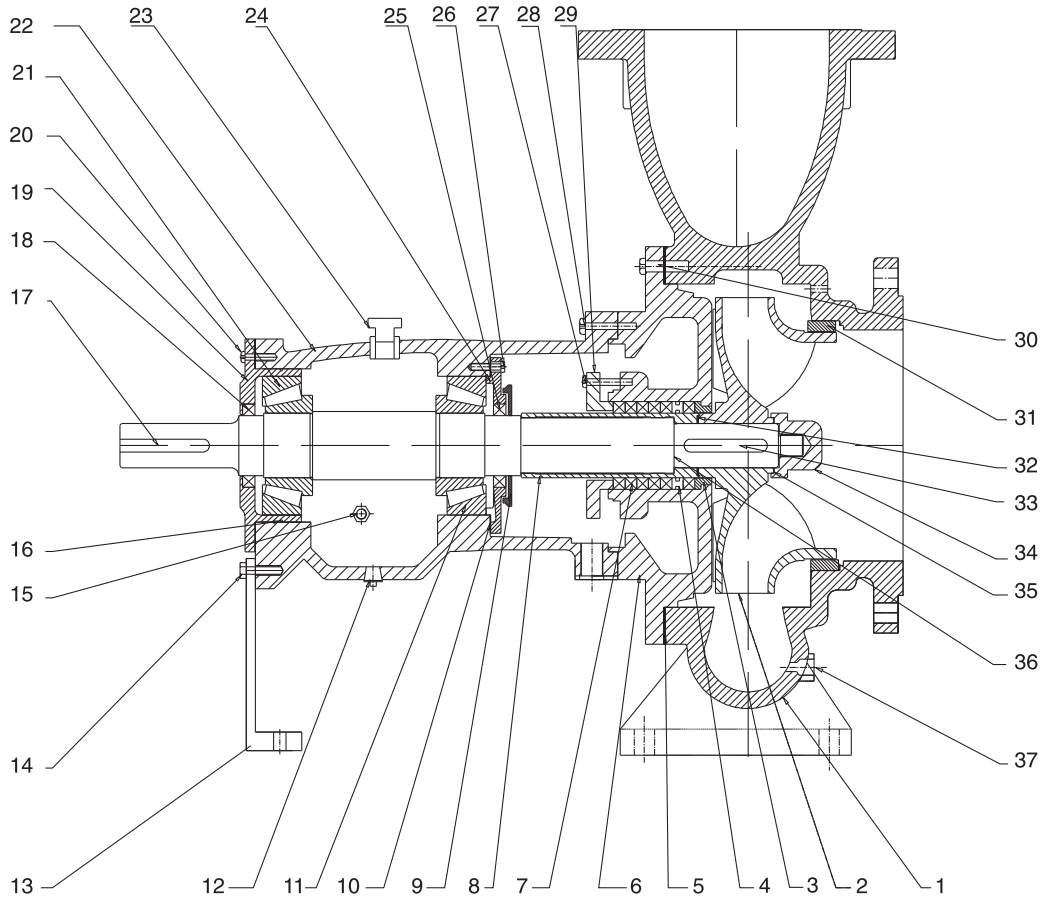
Pump Parts	Type - C	Type - B	Type - S
Pump Casting	C.I	C.I	CF 8
Stuffing box	C.I	C.I	CF 8
Gland	C.I	C.I	CF 8
Suction Cover	C.I	C.I	CF 8
impeller	C.I	BRONZE - LTB 2	CF 8
Pump Shaft	En-8	En-8	SS 304 / 316
Shaft Sleeve	SS 410	SS 410	SS 410
Lantern Ring	En-8		
Gland Packing	TIGA		
Fasteners	En-8		

TECHNICAL DATA

PUMP TYPE	SUCTION SIZE 'mm'	DELIVERY SIZE 'mm'	OIL SEAL SIZE	BEARING	GD ² -Value Kg-m ²	PUMP WEIGHT "kg"
200/320	250	200	90 X 65 X 10	312314 X 2 NOS	0.175	290
200/400	250	200	90 X 65 X 10	312314 X 2 NOS	0.380	310
250/320	250	250	90 X 65 X 10	312314 X 2 NOS	0.390	310
250/270	200	250	35 X 50 X 9 40 X 62 X 9	6408 X 2 - 51212 X 1	0.060	260
300/320	300	300	90 X 65 X 10	312314 X 2 NOS	0.220	360
250/400	300	250	75 X 100 X 10 80 X 90 X 10	3316 - NU 316	0.946	360
450/550	400	450	105 X 75 X 15 105 X 72 X 15	6415 X 2 - 51320 X 1	1.590	1425

GENERAL INFORMATION - ECM SERIES

CROSS SECTIONAL DRAWING

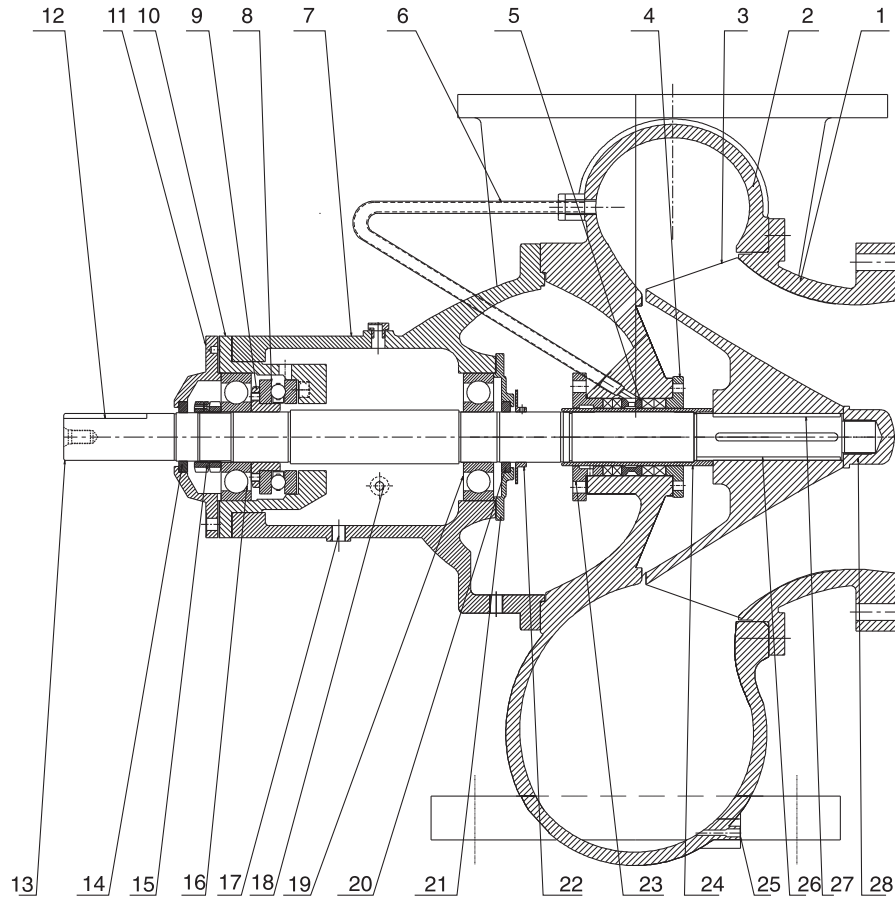


Part No	Part Name
1	Volute Casing
2	Impeller
3	Lay Brith Nech Ring
4	Lantern Ring
5	Gasket Casing
6	Casing Cover
7	Gland Packing
8	Shaft Sleeve
9	Deflector
10	Gasket Inner Bearing Cover
11	Bearing Pump End
12	Plug (oil Drain)
13	Support Foot
14	Support Foot Bolt
15	Oil Level Sight Glass
16	O Ring Adopter
17	Key (Coupling)
18	Oil Seal (drive End)65x90x10
19	Bearing Adopter

Part No	Part Name
20	Adopter Bolt
21	Bearing Drive End
22	Bearing Bed
23	Vent
24	Bearing Cover (inner)
25	Oil Seal (pump End)65x90x10
26	Brg Cap / Brg Housing Bolt
27	Gland Stud & Nut
28	Brg Bed / S.box Stud & Nut
29	Gland Split
30	Casing / S.box Stud & Nut
31	Wear Ring
32	Gasket Sleeve / Impeller
33	Key Impeller
34	Impeller Nut
35	Gasket (imp. Nut)
36	Pump Shaft
37	Plug Casing Drain

GENERAL INFORMATION - ECM SERIES

CROSS SECTIONAL DRAWING



Part No	Part Name
1	Suction Cover
2	Volute Casing
3	Impeller
4	Stuffing Box Cover
5	Lantern Ring
6	St.box Colling Tupe
7	Bearing Bed
8	Thrust Bearing (drive)
9	Thrust Bearing Adopter
10	Bearing Adopter
11	Bearing Cap Outer
12	Key Coupling
13	Shaft
14	Oil Seal(drive)75x105x13

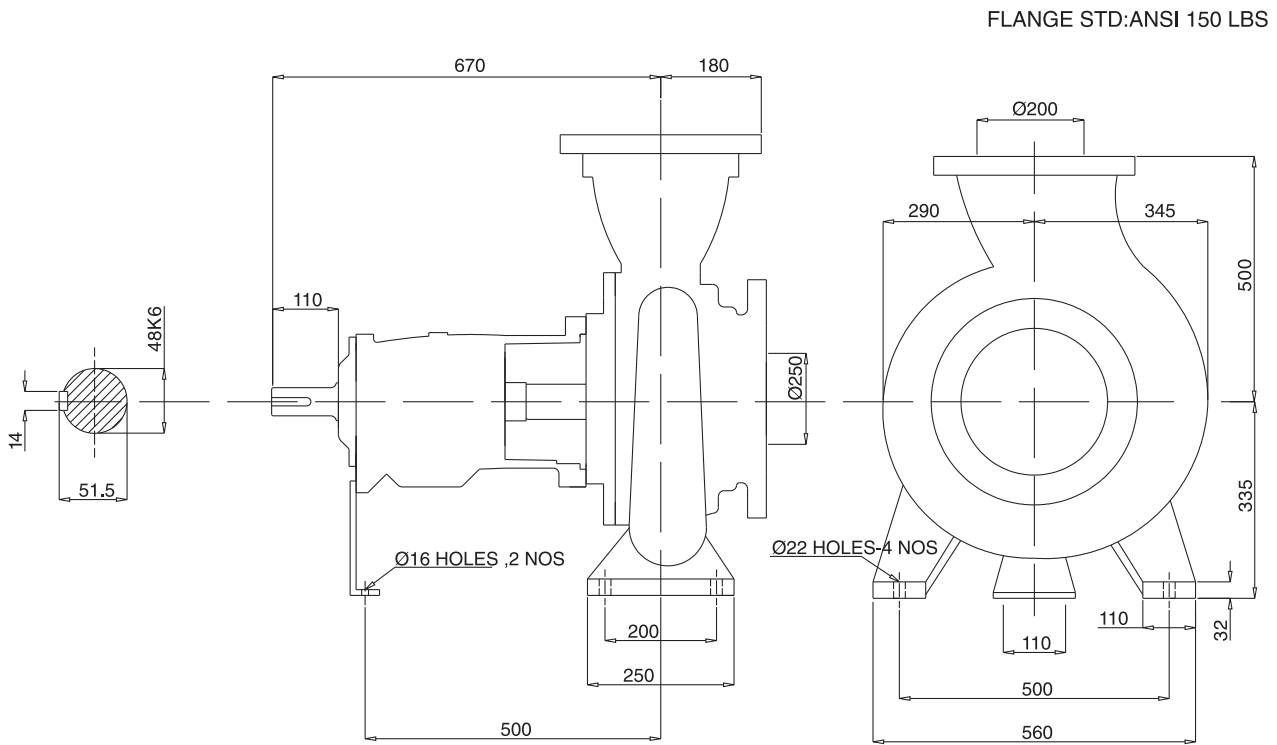
Part No	Part Name
15	Lock Nut
16	Ball Bearing (drive)
17	Oil Rain Plug
18	Oil Level Sight Glass
19	Ball Bearing (pump)
20	Oil Seal (pump) 75x105x13
21	Bearing Cap Inner
22	Deflector
23	Gland
24	Sleeve
25	Casing Drain
26	Key Sleeve
27	Key Impeller
28	Impeller Nut



OVERALL DIMENSIONAL DRAWING

Pump Model : **ECM-200/320**

Pump Size in mm : **250 x 200**



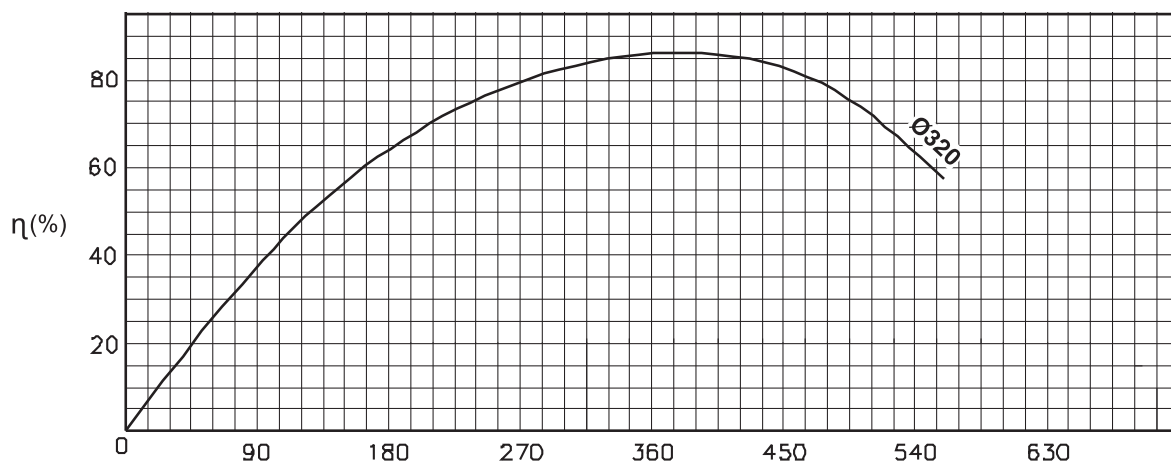
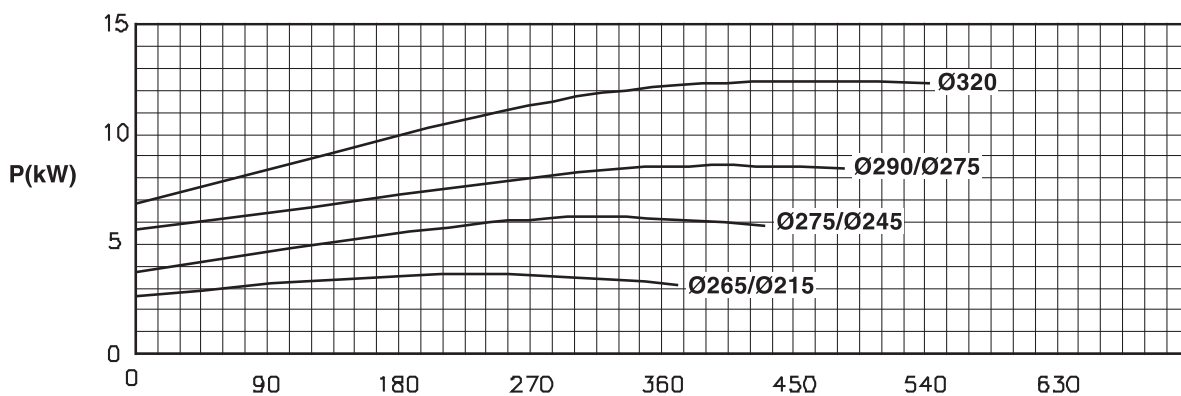
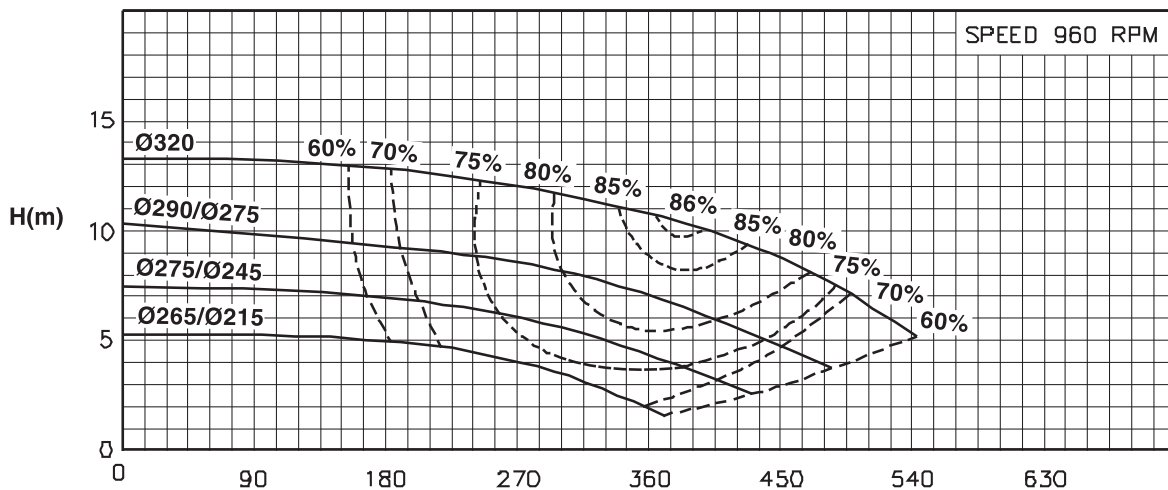
DIRECTION OF ROTATION : CLOCK WISE FROM DRIVE END



PERFORMANCE CURVE

Pump Model : **ECM-200/320**

Pump Size in mm : **250 x 200**

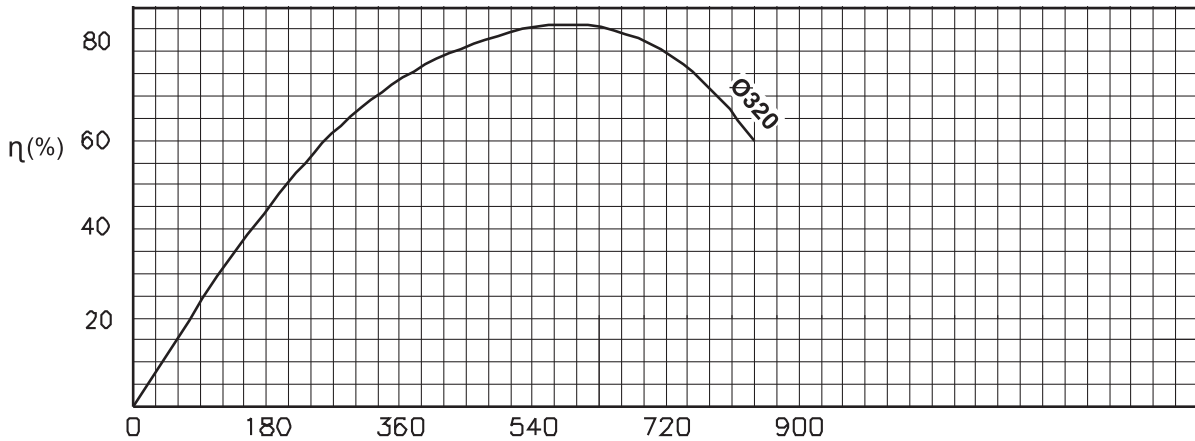
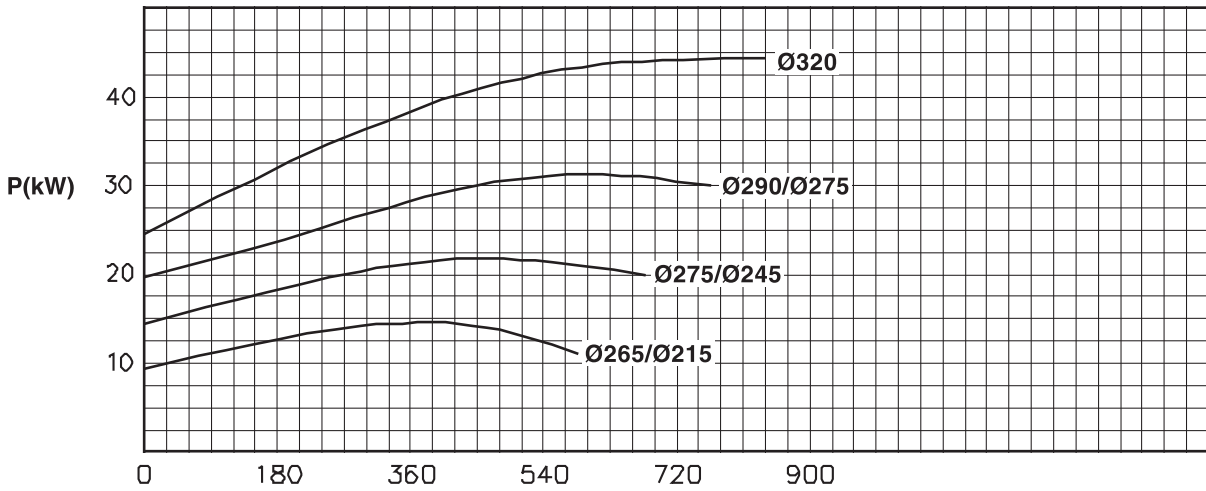
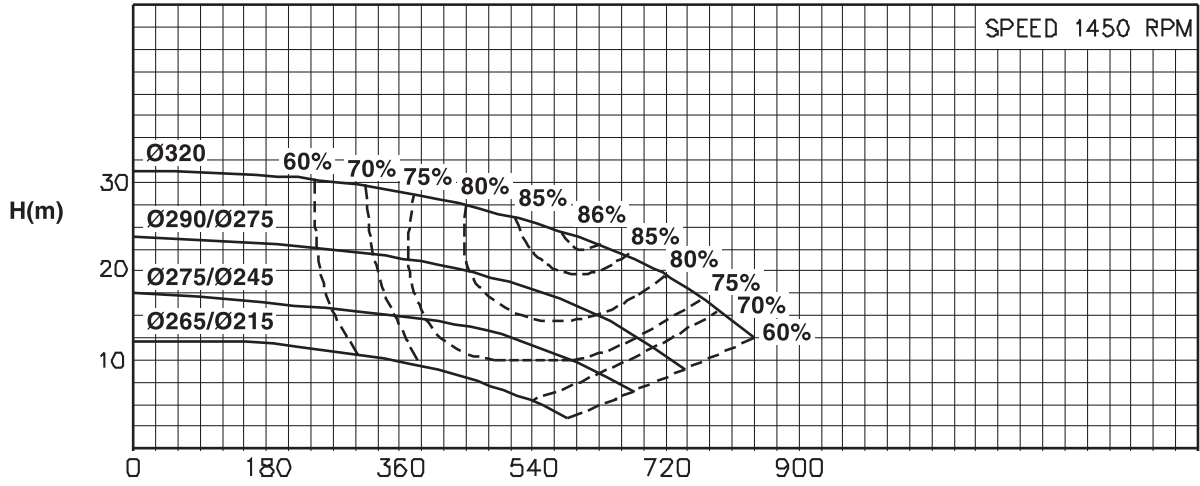




PERFORMANCE CURVE

Pump Model : ECM-200/320

Pump Size in mm : 250 x 200

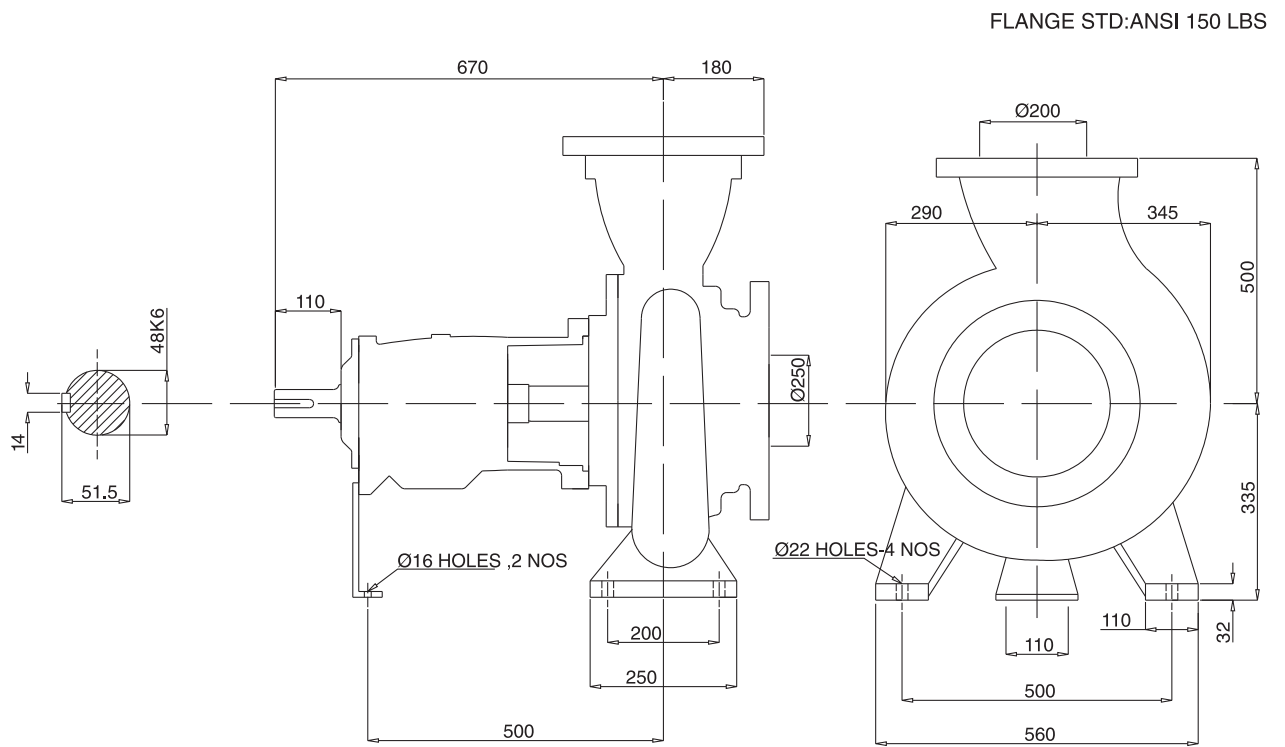




OVERALL DIMENSIONAL DRAWING

Pump Model : **ECM-200/400**

Pump Size in mm : **250 x 200**



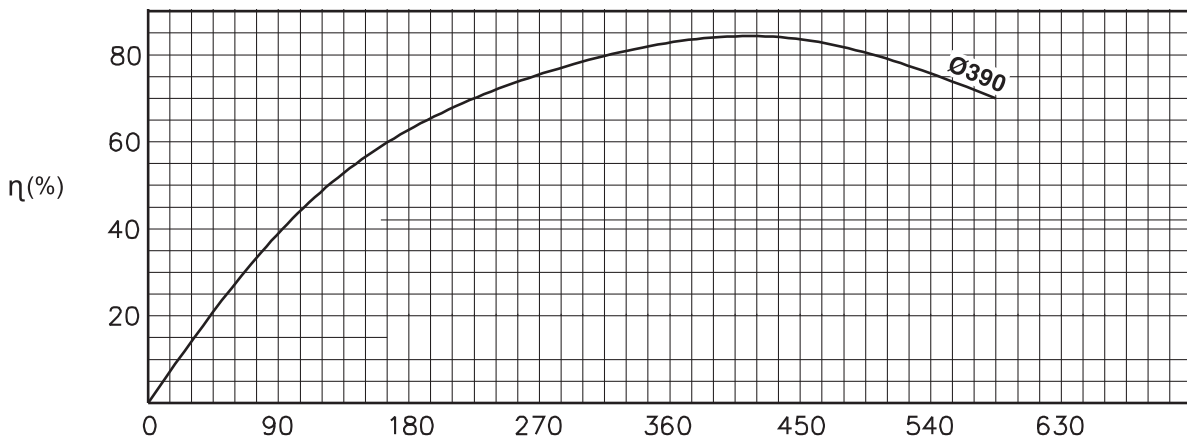
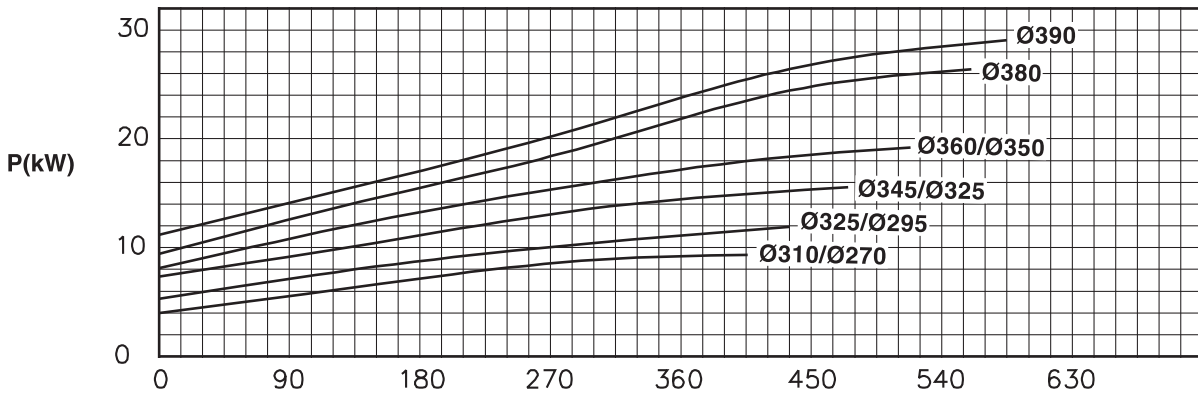
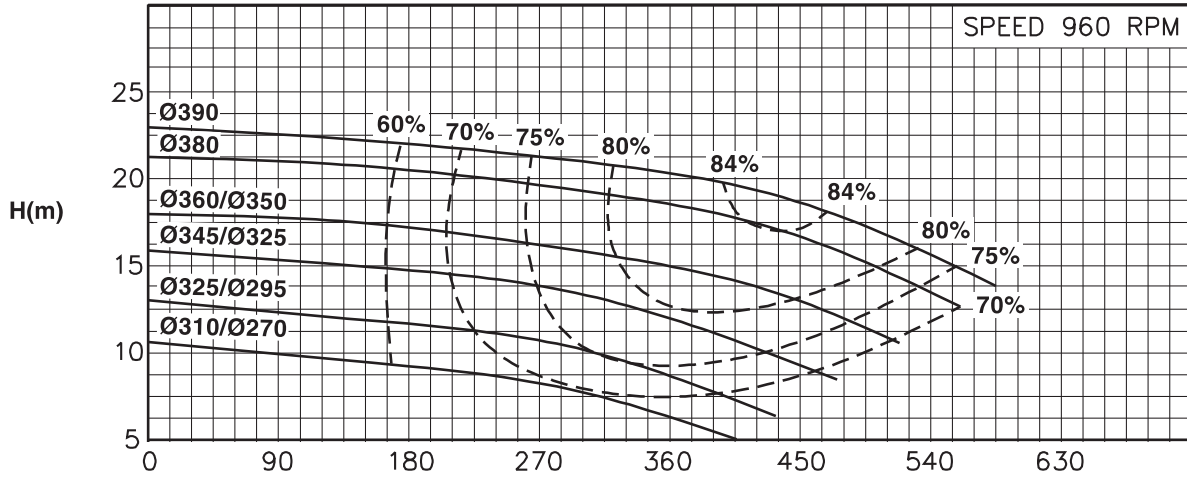
DIRECTION OF ROTATION : CLOCK WISE FROM DRIVE END



PERFORMANCE CURVE

Pump Model : **ECM-200/400**

Pump Size in mm : **250 x 200**

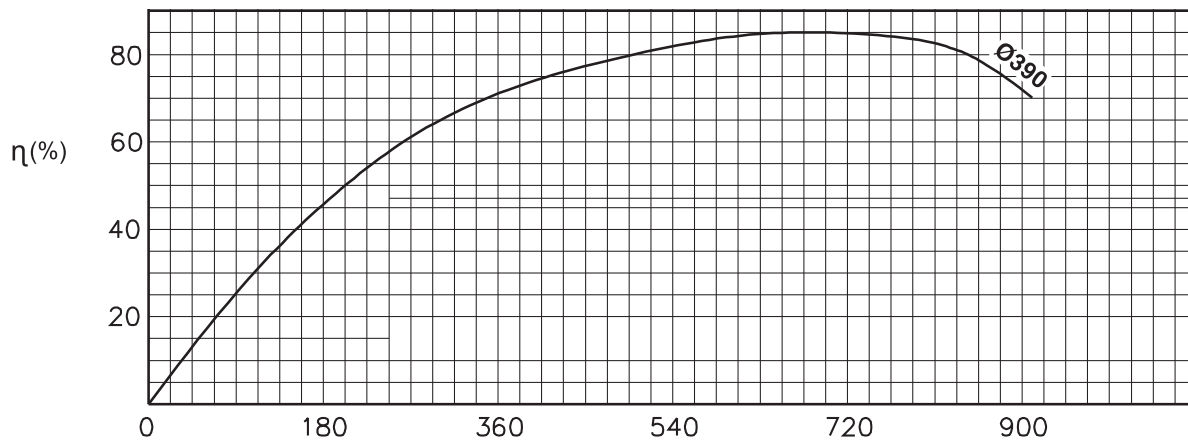
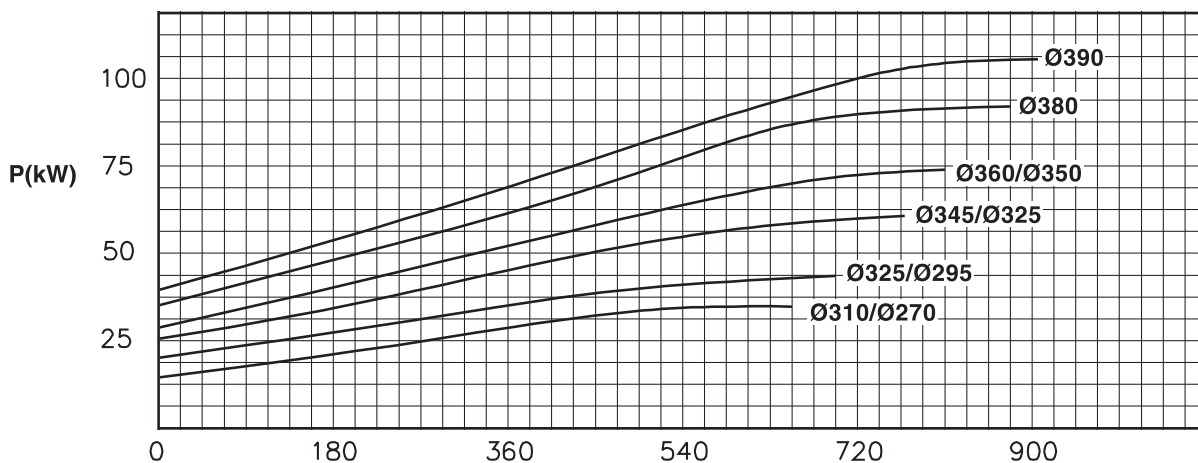
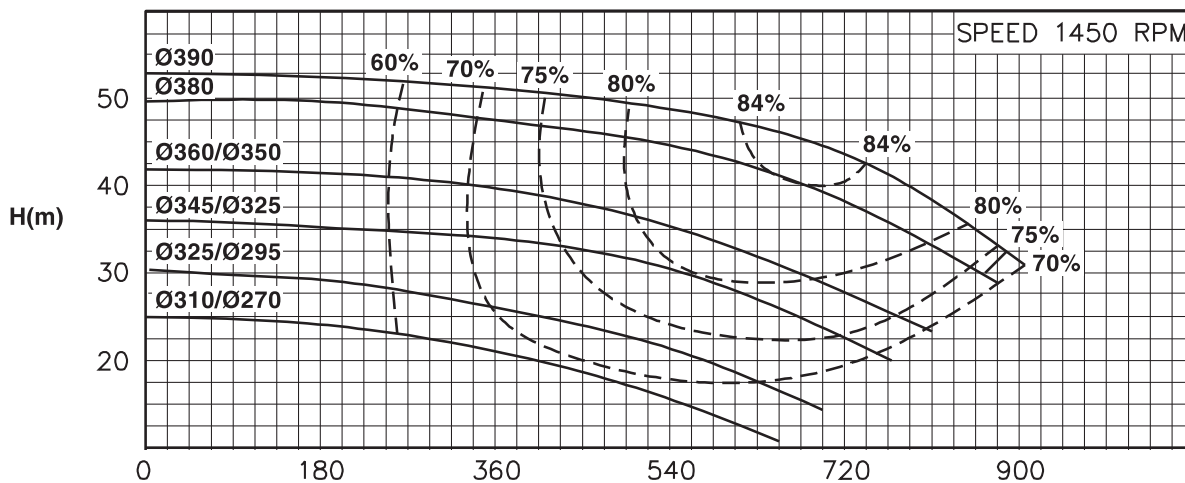




PERFORMANCE CURVE

Pump Model : **ECM-200/400**

Pump Size in mm : **250 x 200**

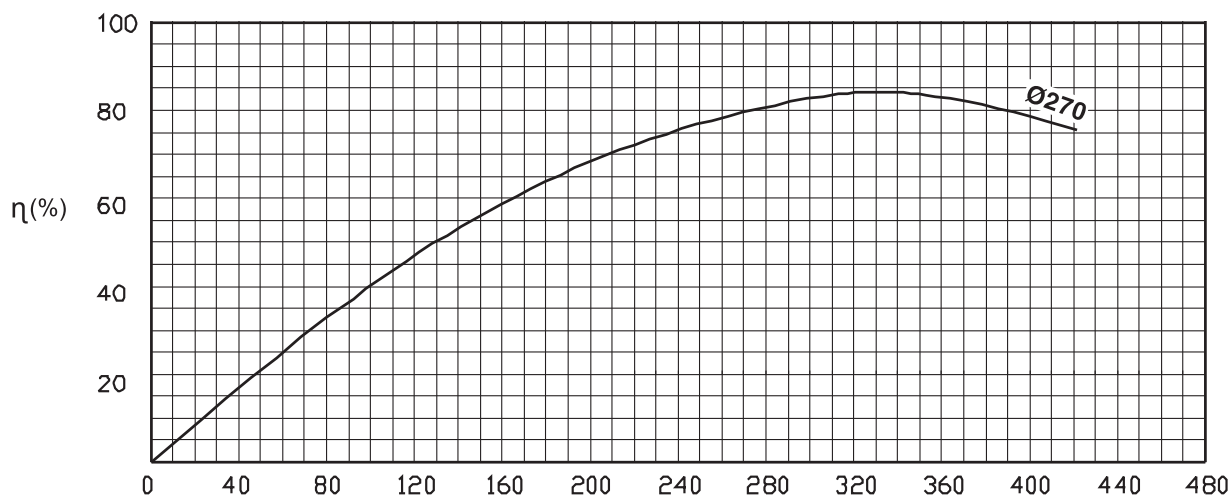
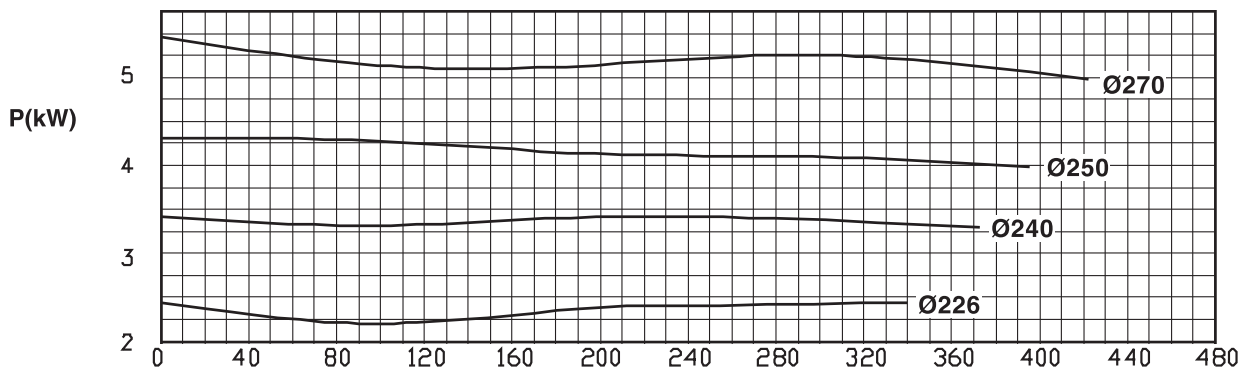
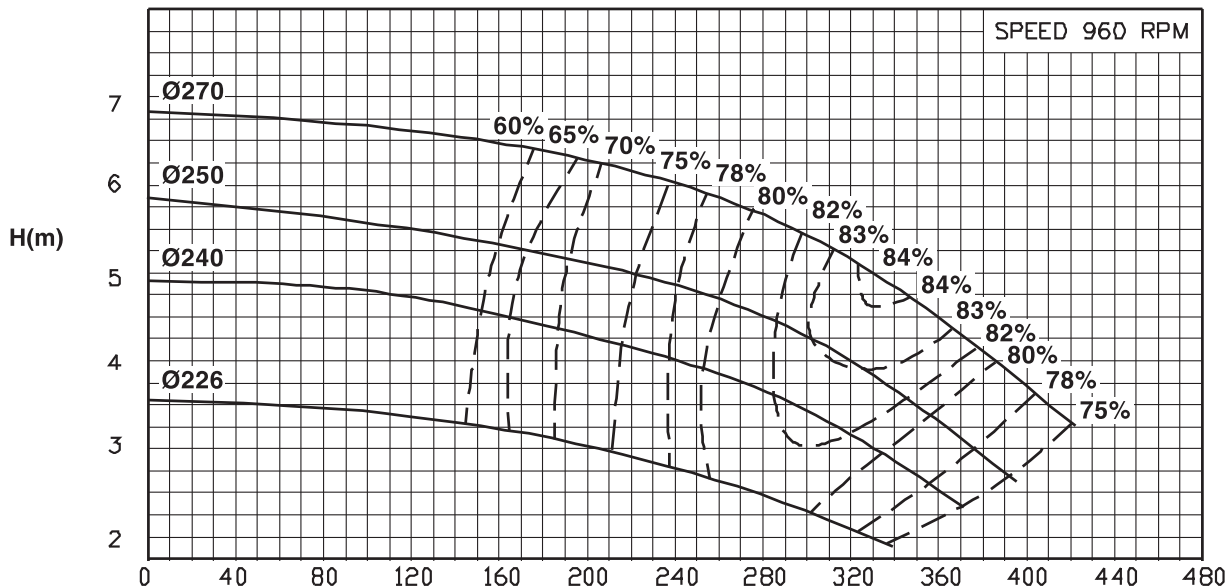




PERFORMANCE CURVE

Pump Model : **ECM-250/270**

Pump Size in mm : **200 x 250**

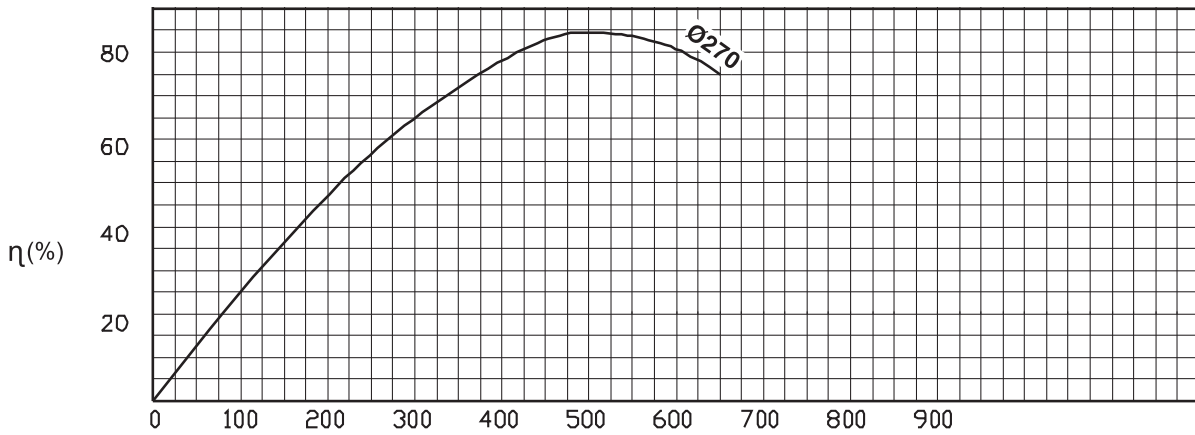
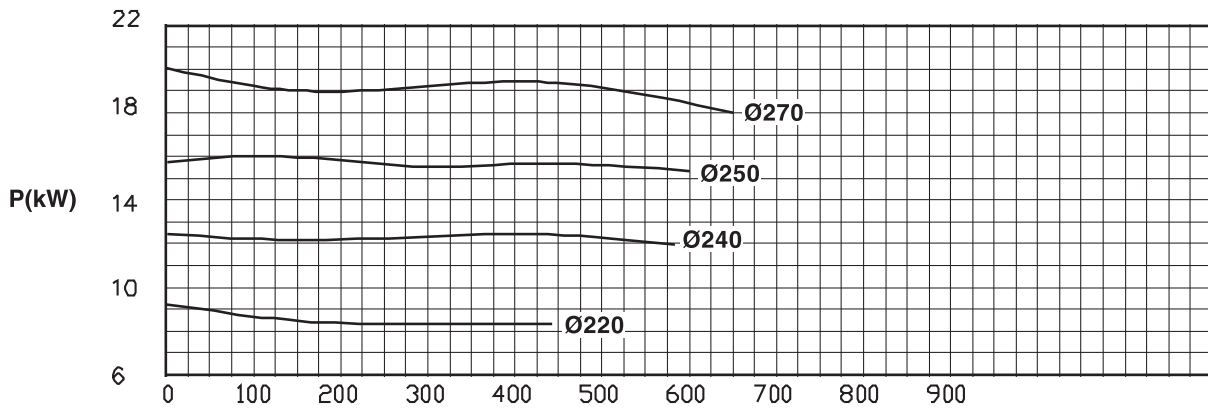
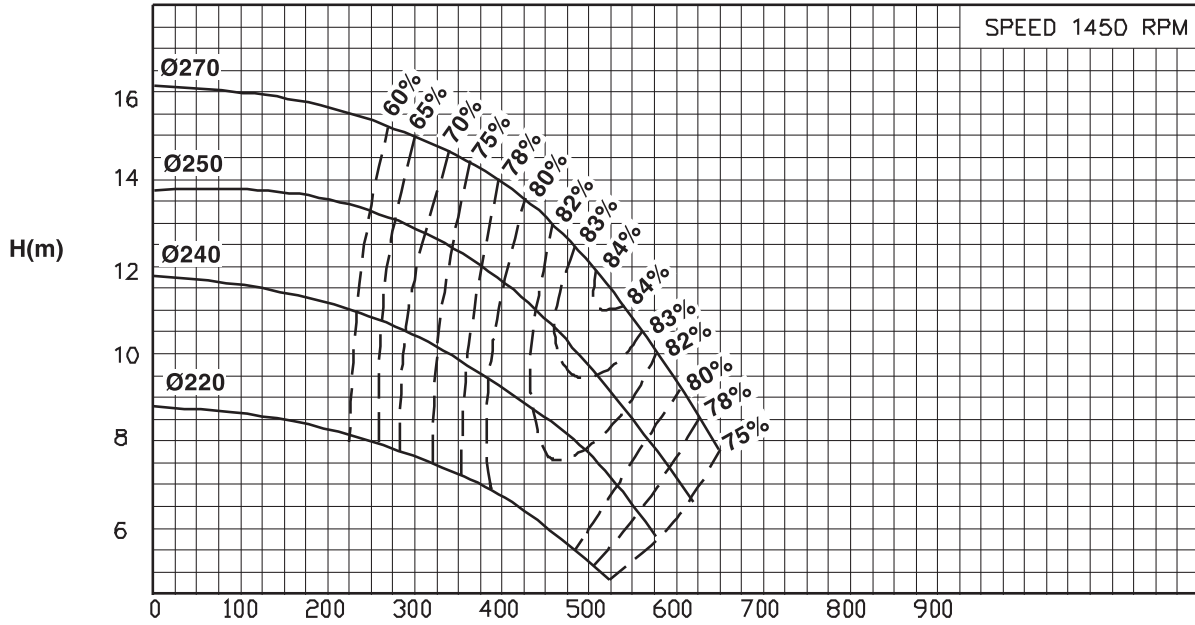




PERFORMANCE CURVE

Pump Model : **ECM-250/270**

Pump Size in mm : **200 x 250**

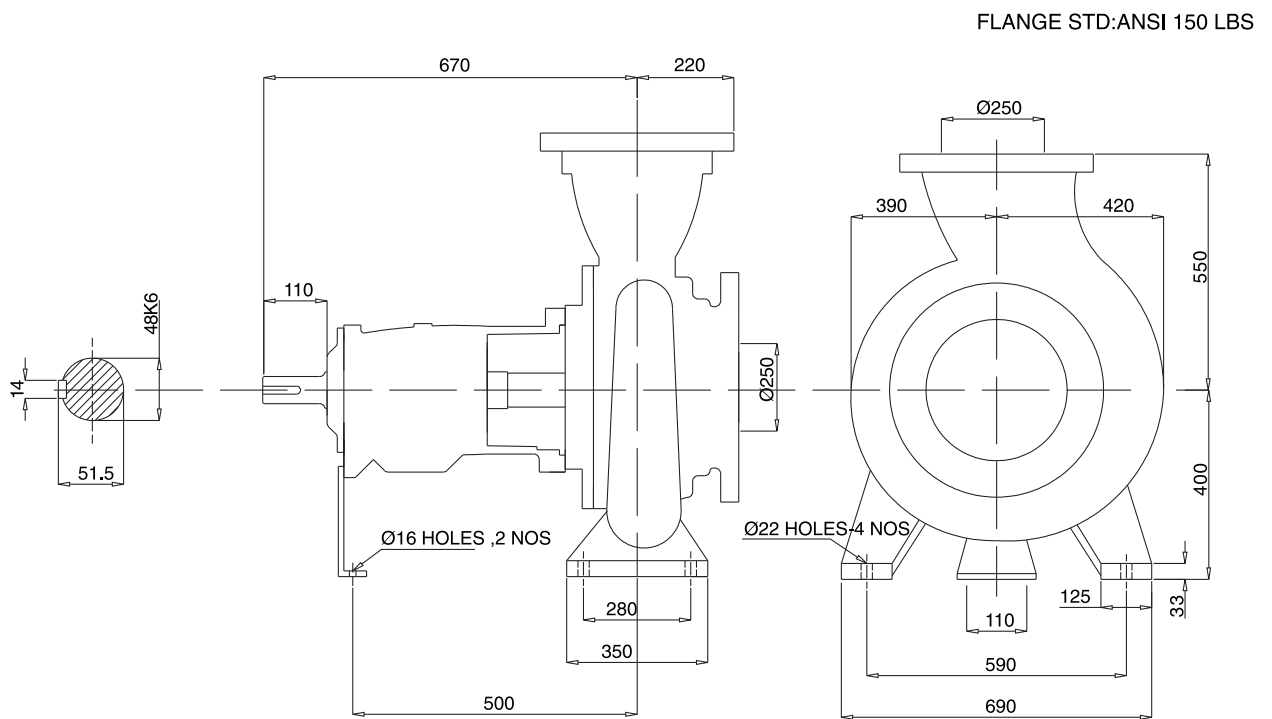




OVERALL DIMENSIONAL DRAWING

Pump Model : **ECM-250/320**

Pump Size in mm : **250 x 250**



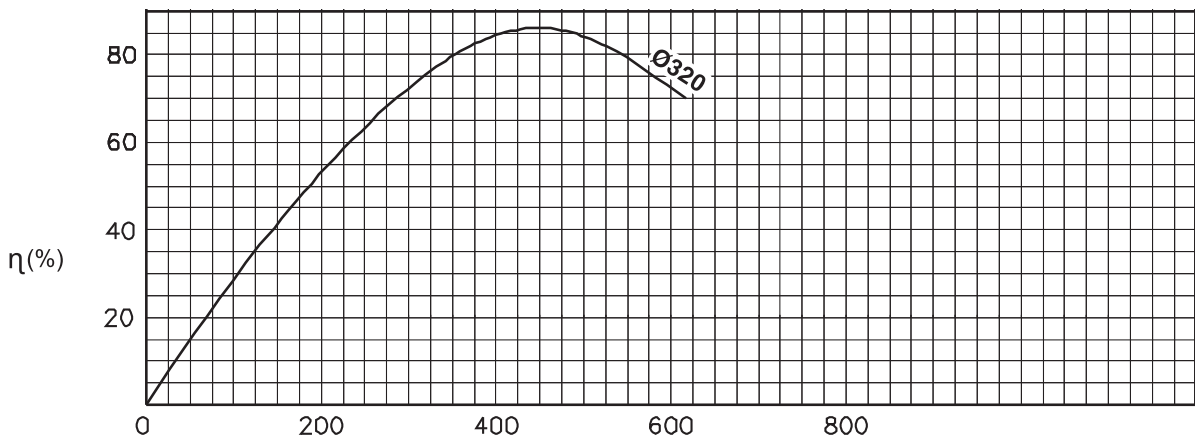
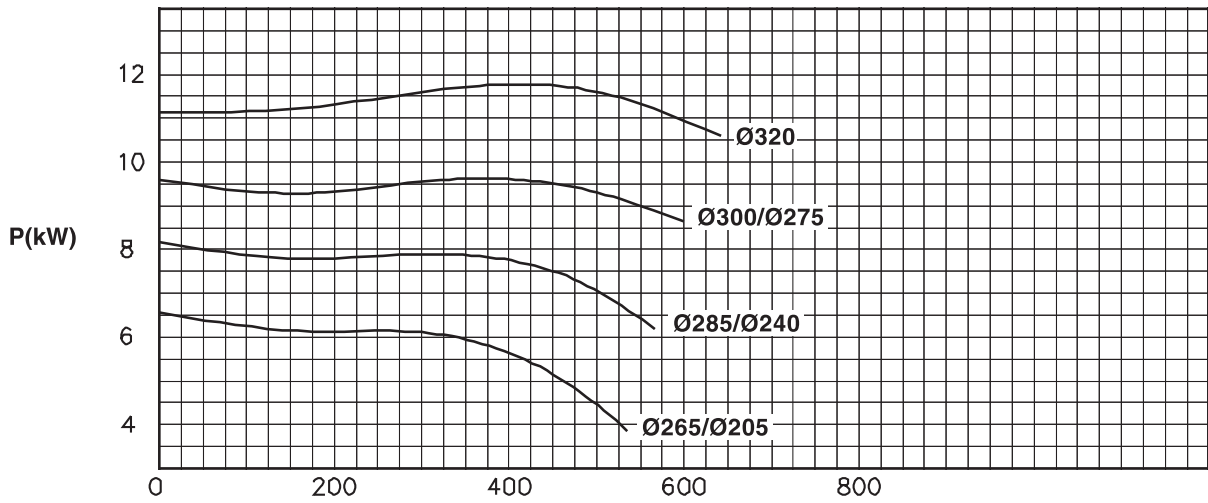
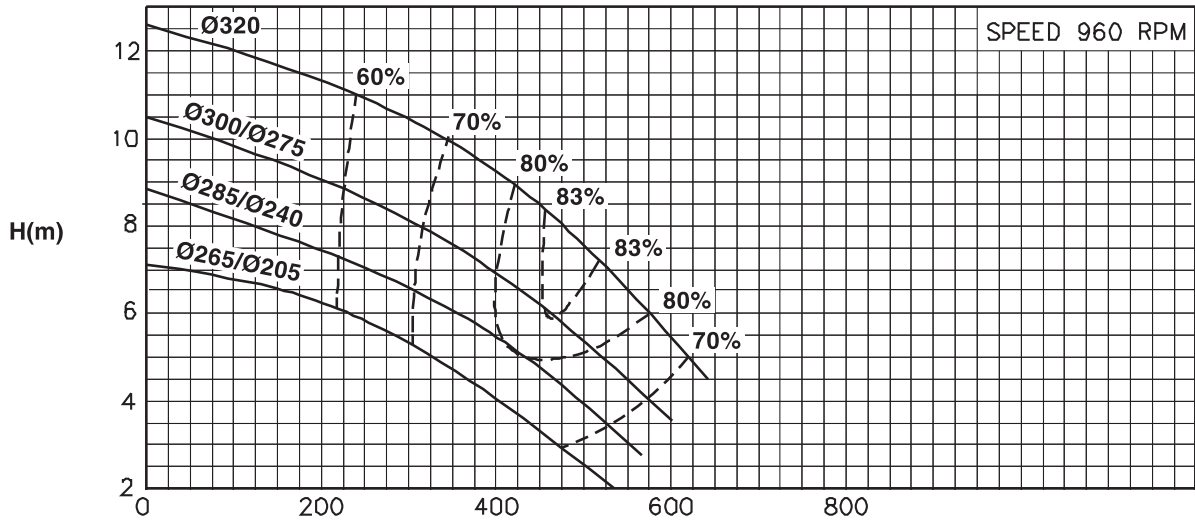
DIRECTION OF ROTATION : CLOCK WISE FROM DRIVE END



PERFORMANCE CURVE

Pump Model : **ECM-250/320**

Pump Size in mm : **250 x 250**

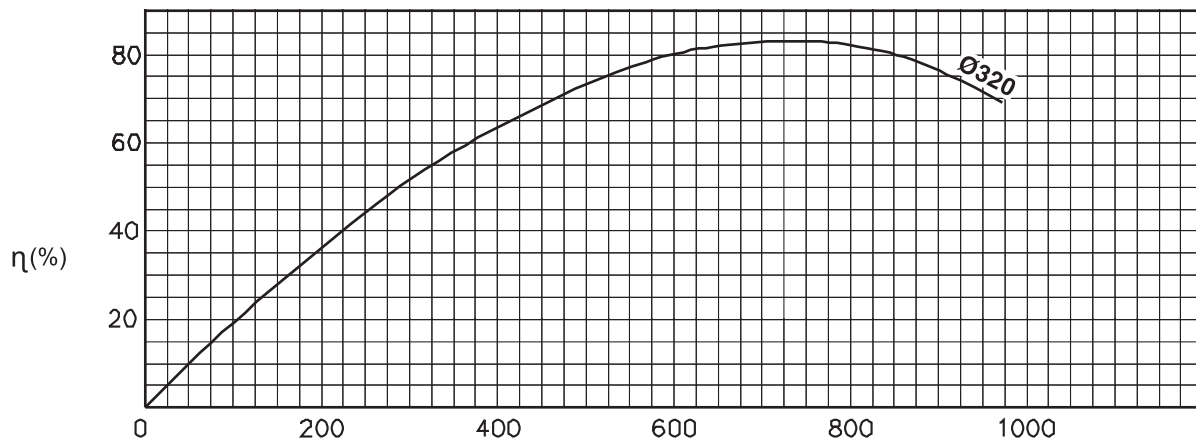
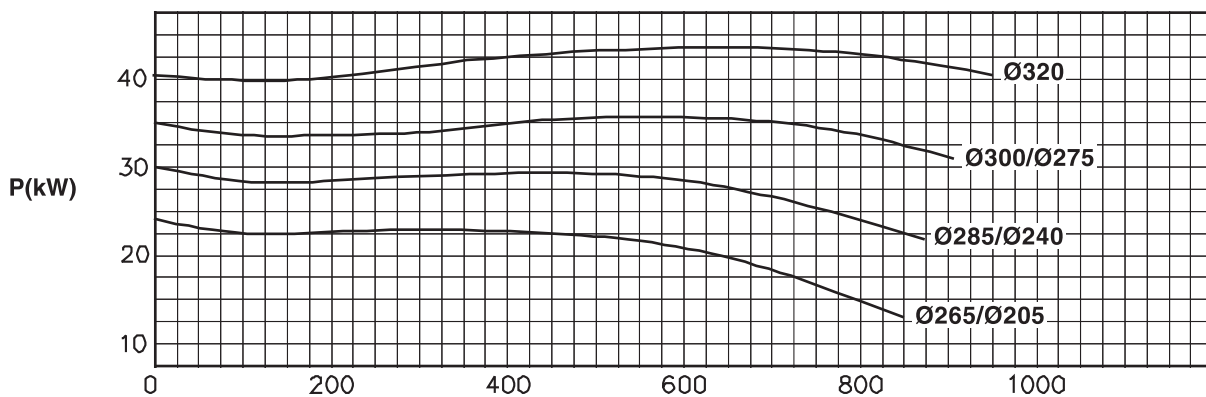
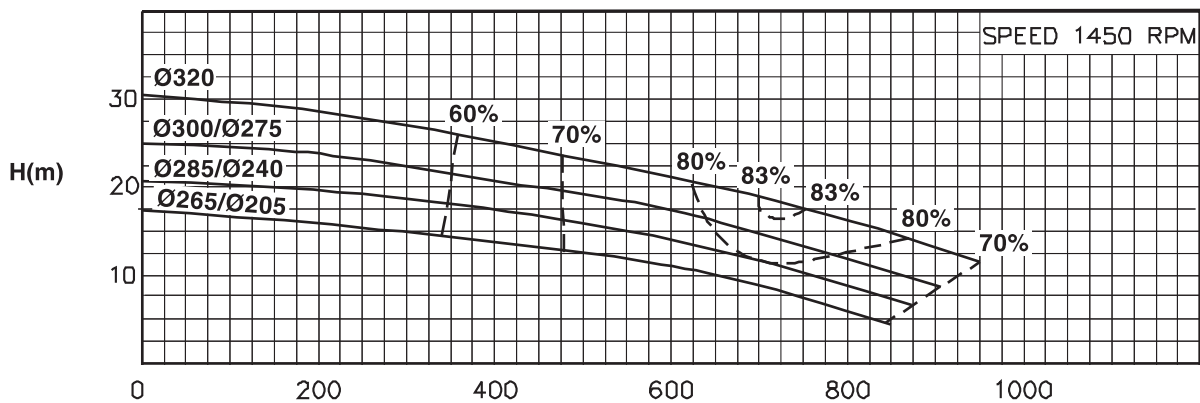




PERFORMANCE CURVE

Pump Model : **ECM-250/320**

Pump Size in mm : **250 x 250**



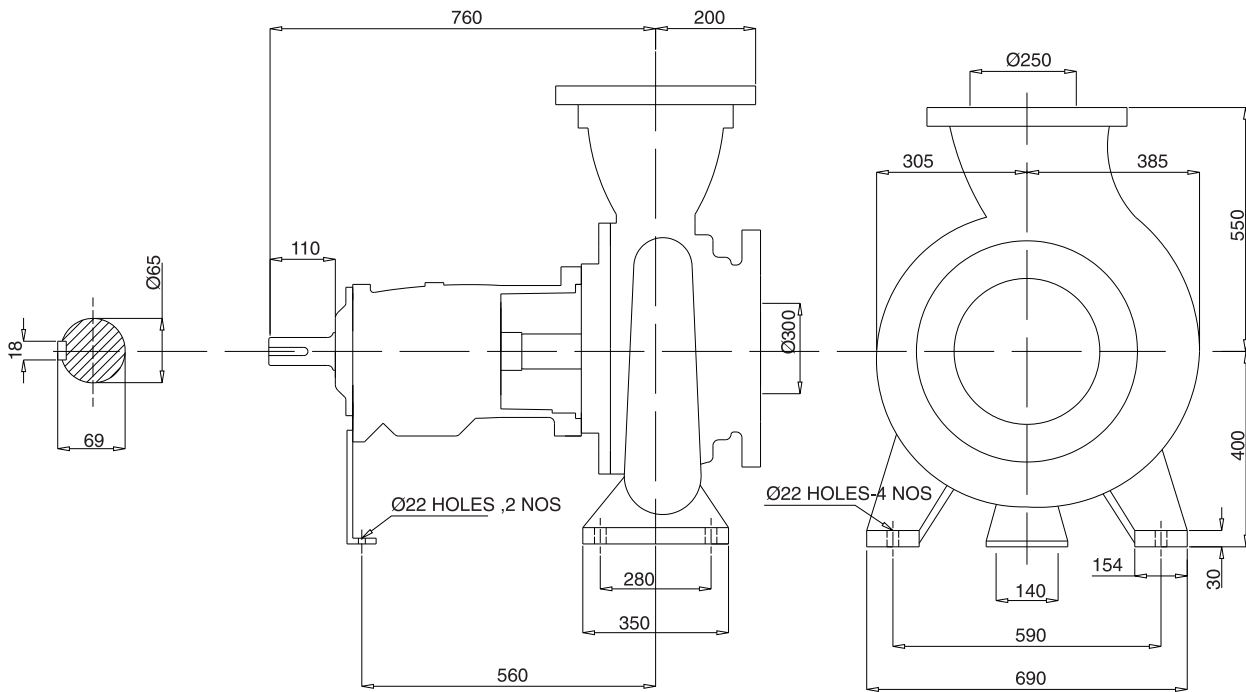


OVERALL DIMENSIONAL DRAWING

Pump Model : **ECM-250/400**

Pump Size in mm : **300 x 250**

FLANGE STD:ANSI 150 LBS



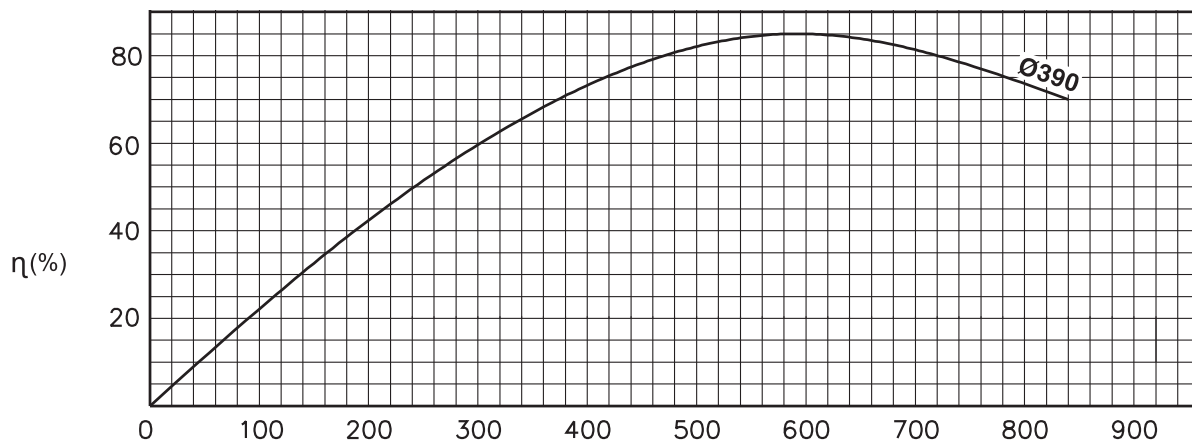
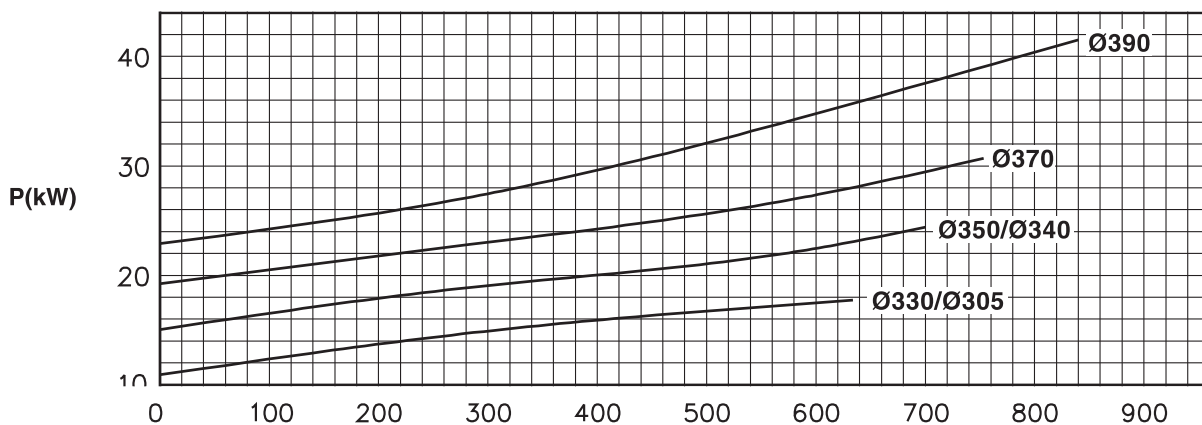
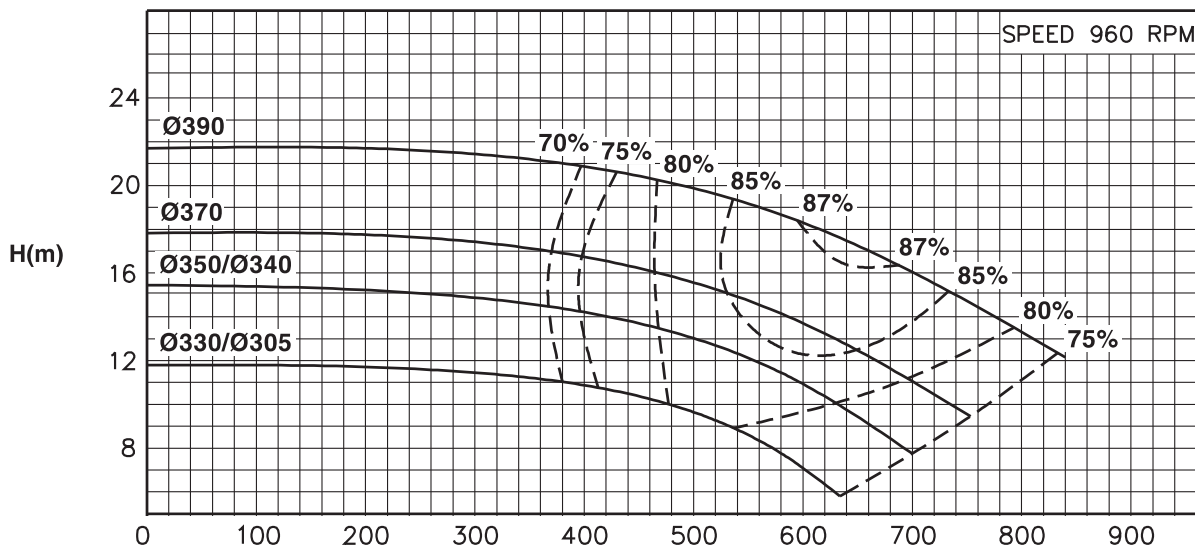
DIRECTION OF ROTATION : CLOCK WISE FROM DRIVE END



PERFORMANCE CURVE

Pump Model : **ECM-250/400**

Pump Size in mm : **300 x 250**

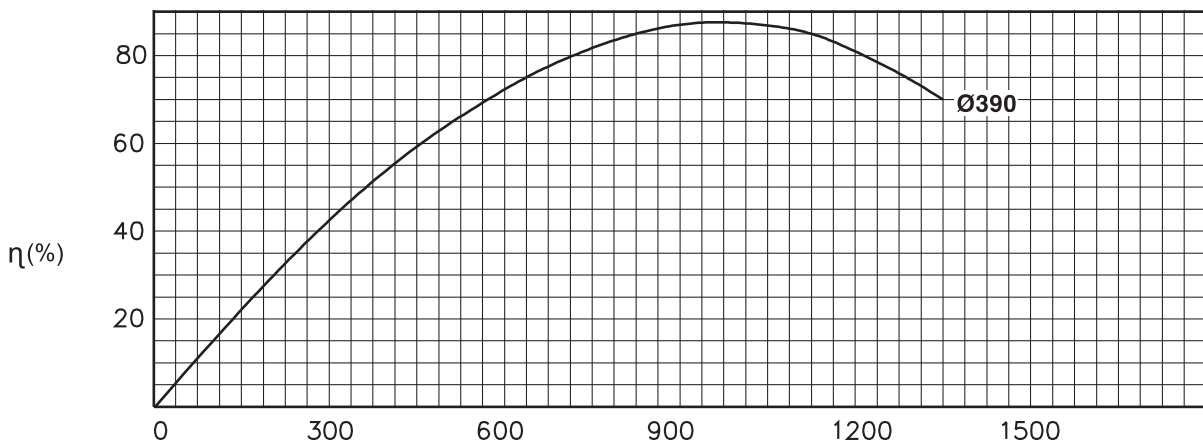
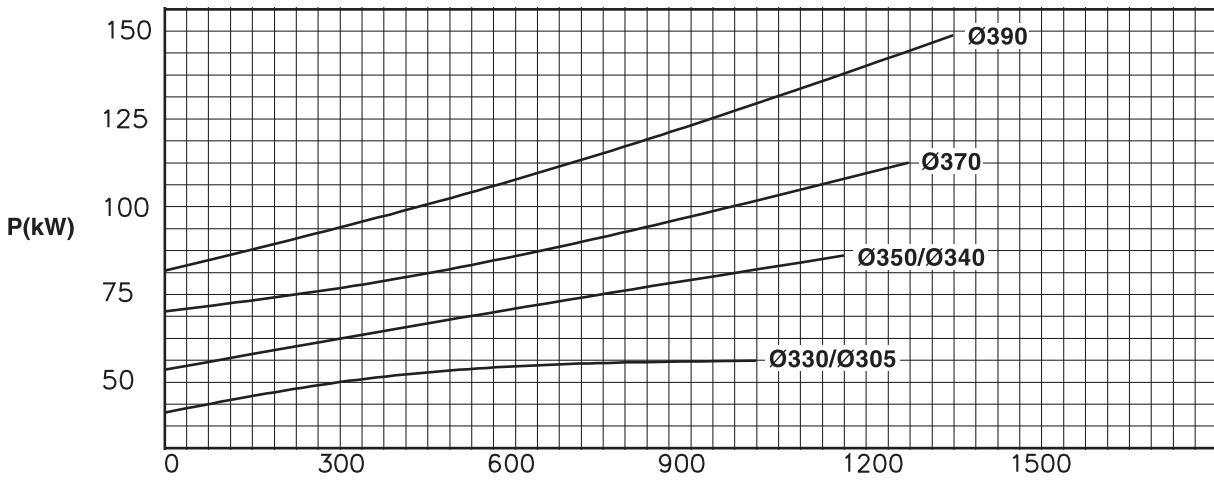
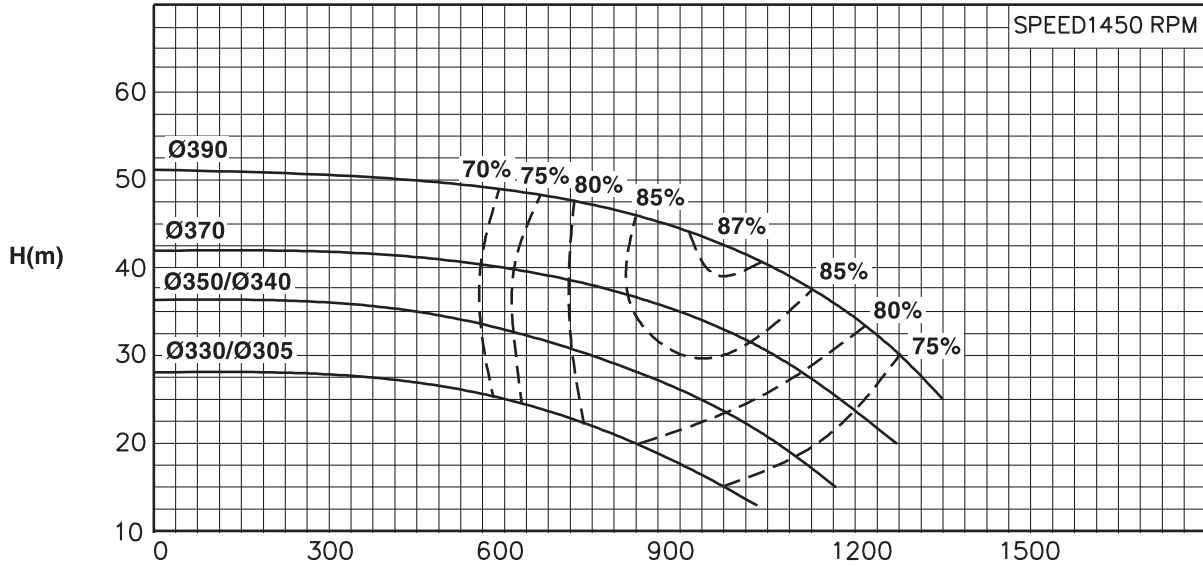




PERFORMANCE CURVE

Pump Model : **ECM-250/400**

Pump Size in mm : **300 x 250**



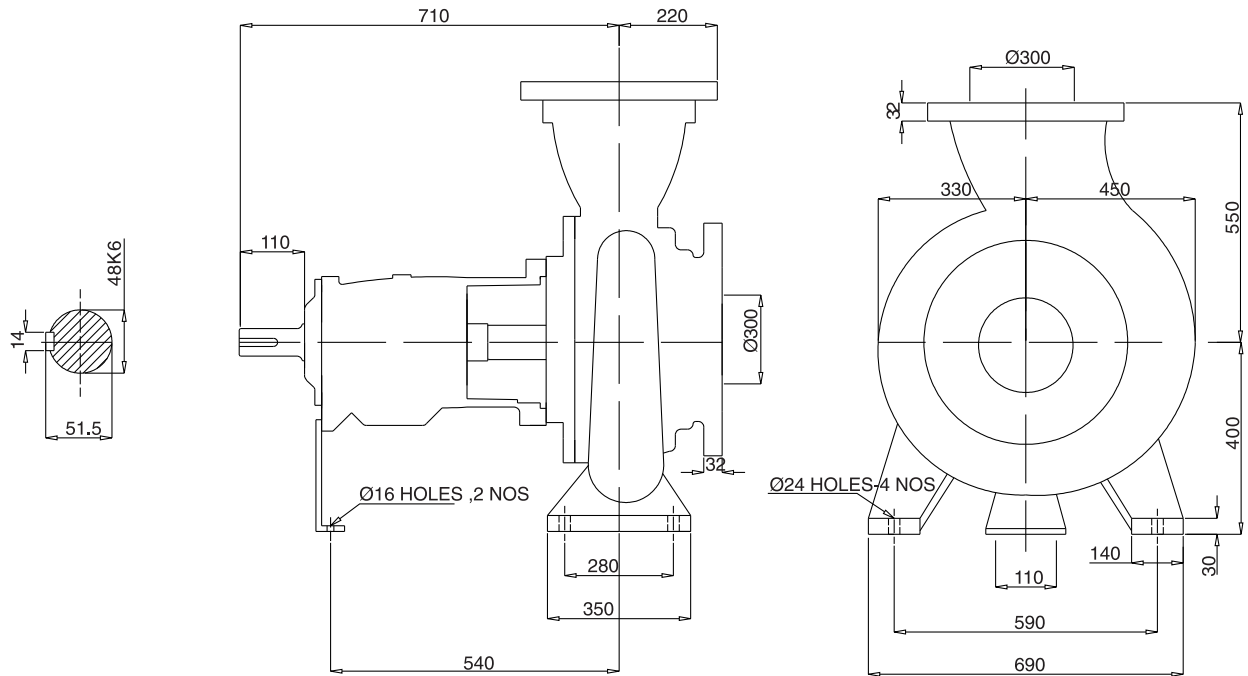


OVERALL DIMENSIONAL DRAWING

Pump Model : **ECM-300/320**

Pump Size in mm : **300 x 300**

FLANGE STD:ANSI 150 LBS



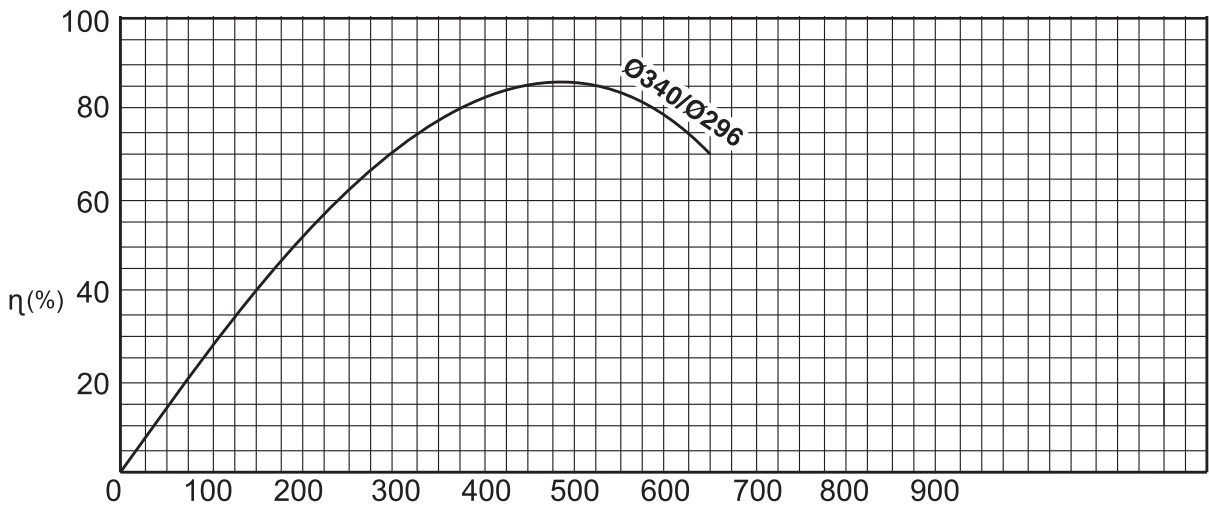
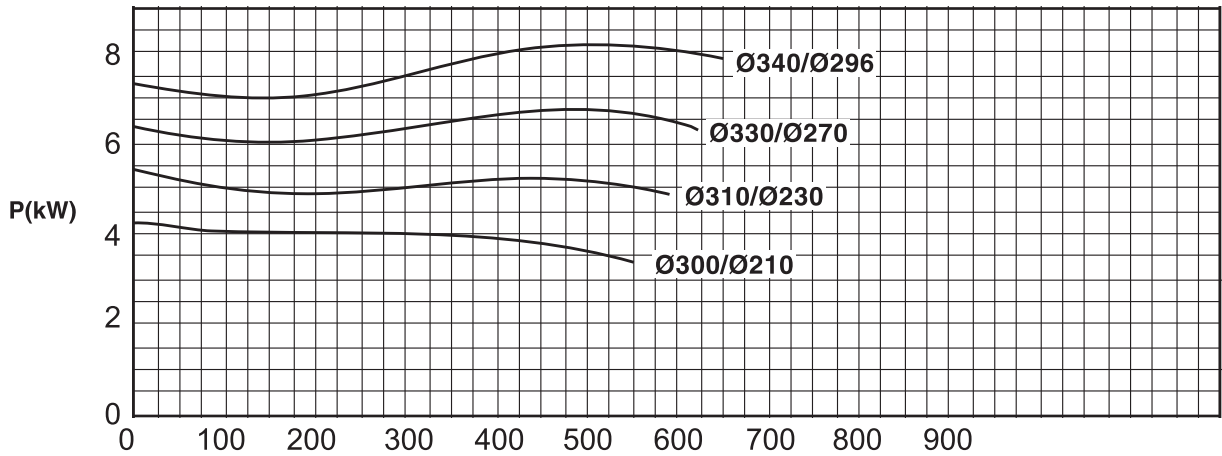
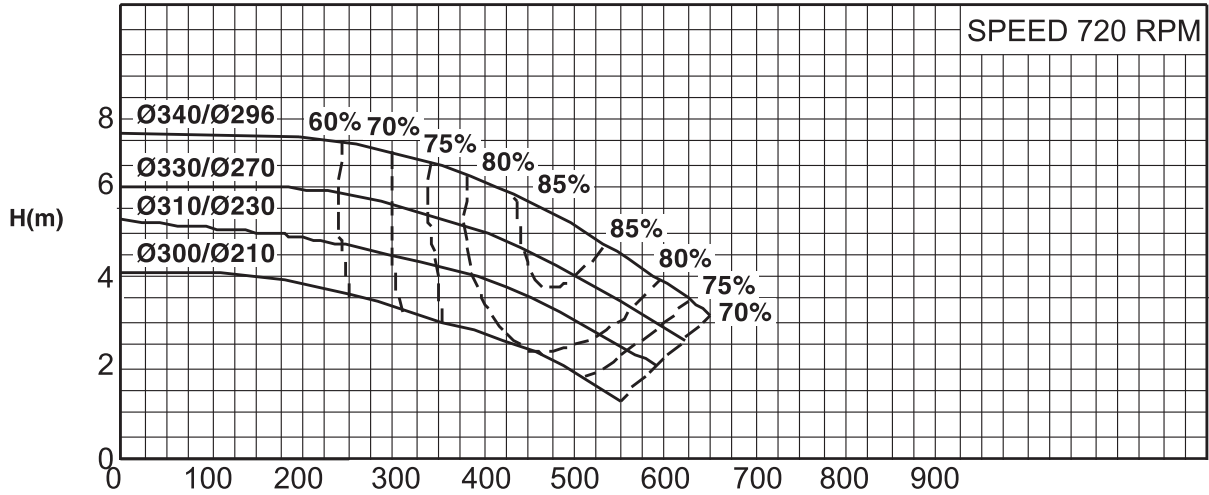
DIRECTION OF ROTATION : CLOCK WISE FROM DRIVE END



PERFORMANCE CURVE

Pump Model : **ECM-300/320**

Pump Size in mm : **300 x 300**

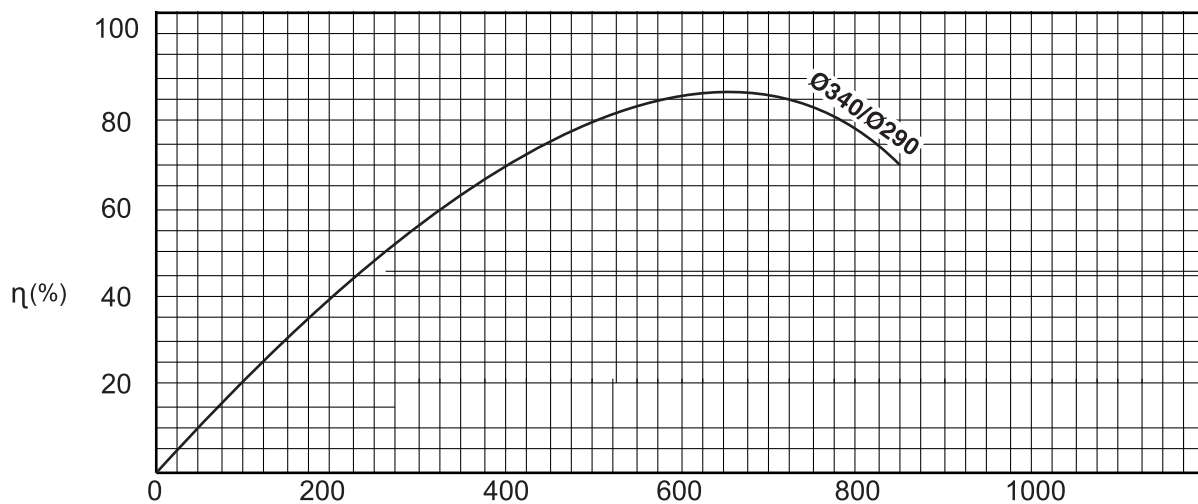
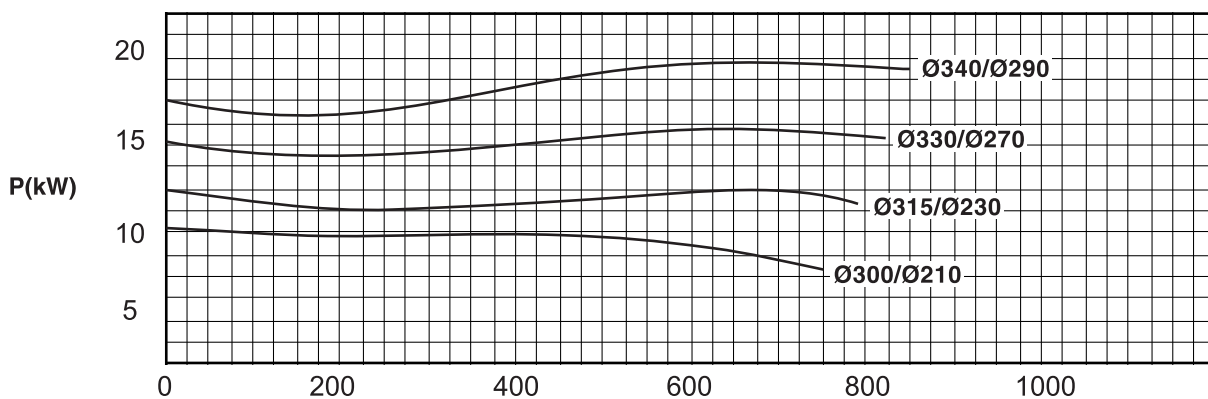
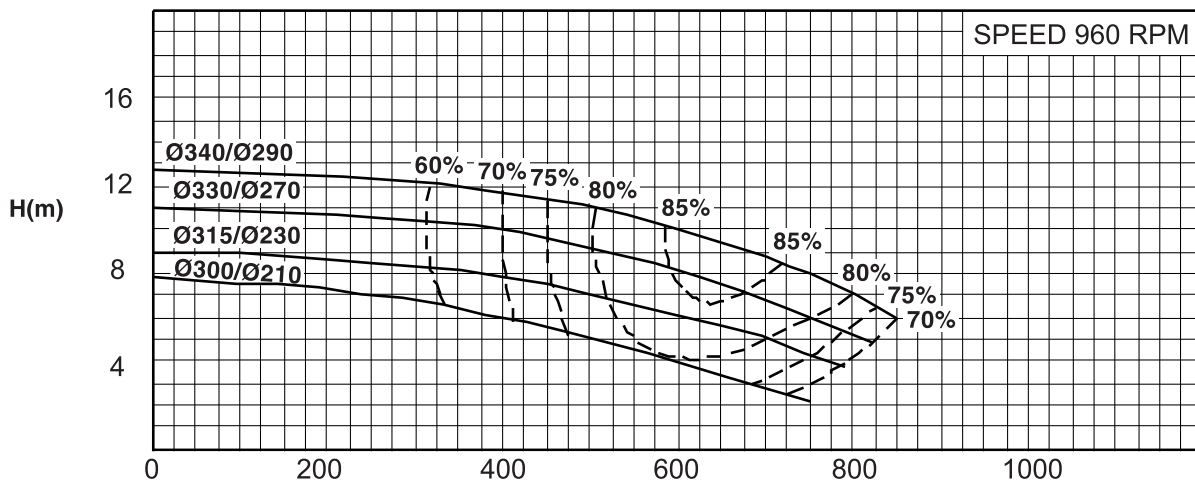




PERFORMANCE CURVE

Pump Model : **ECM-300/320**

Pump Size in mm : **300 x 300**

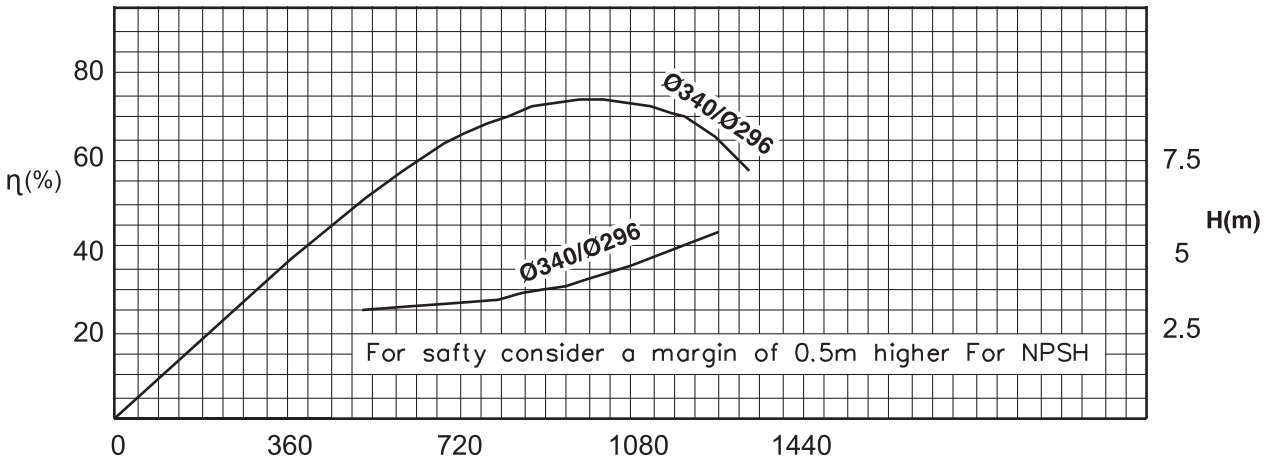
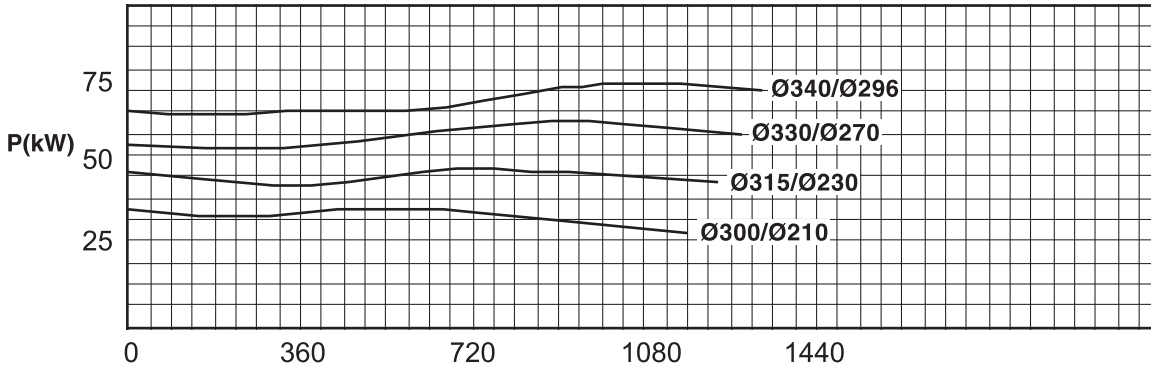
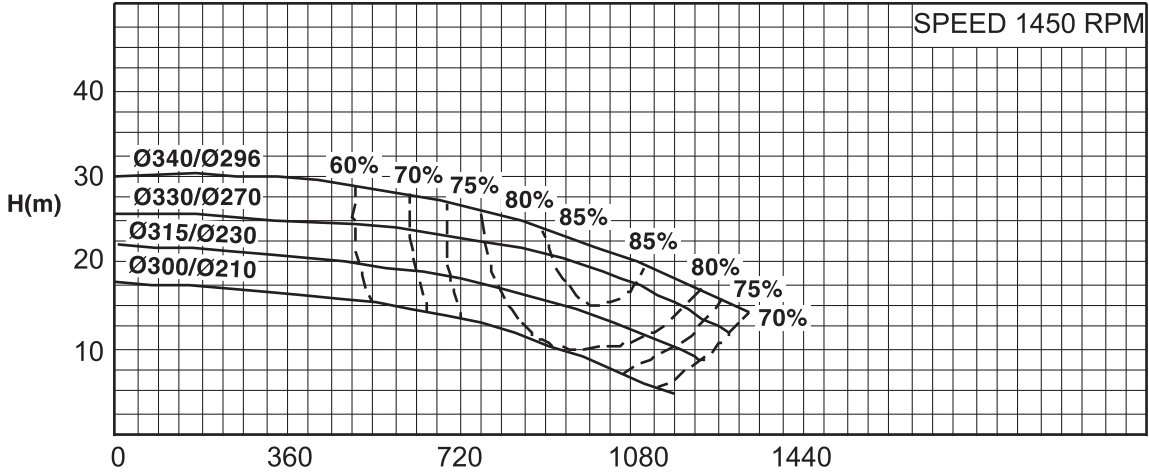




PERFORMANCE CURVE

Pump Model : ECM-300/320

Pump Size in mm : 300 x 300

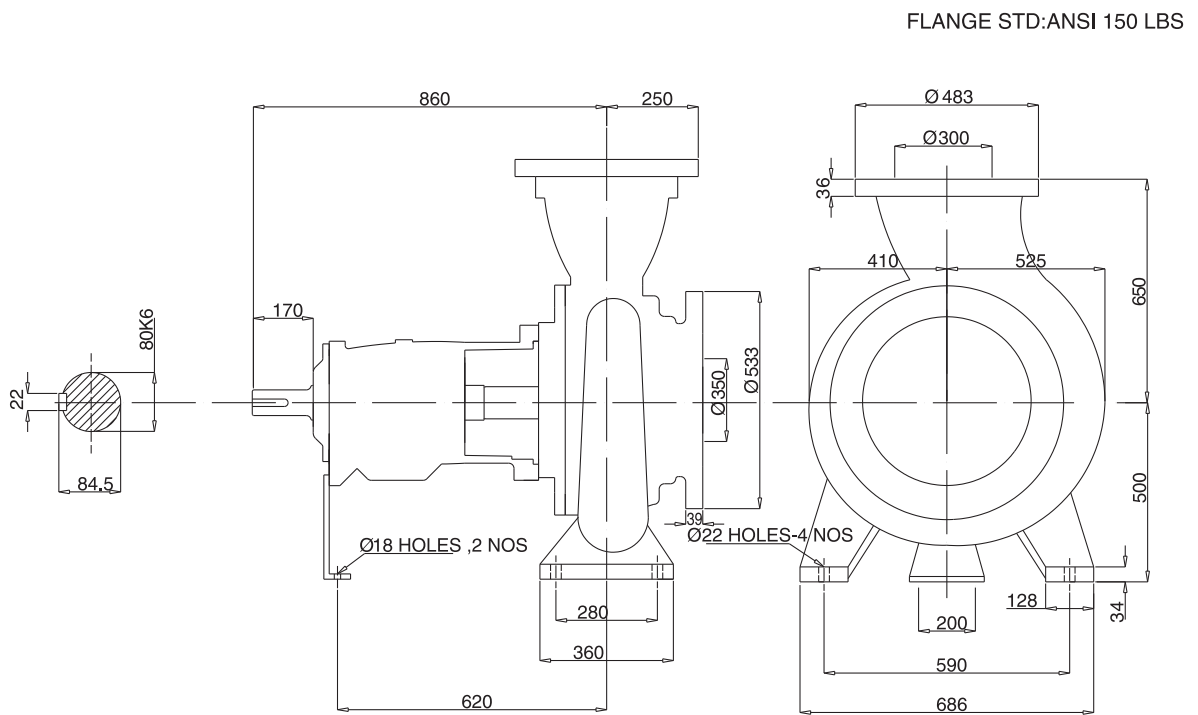




OVERALL DIMENSIONAL DRAWING

Pump Model : **ECM-300/400**

Pump Size in mm : **350 x 300**



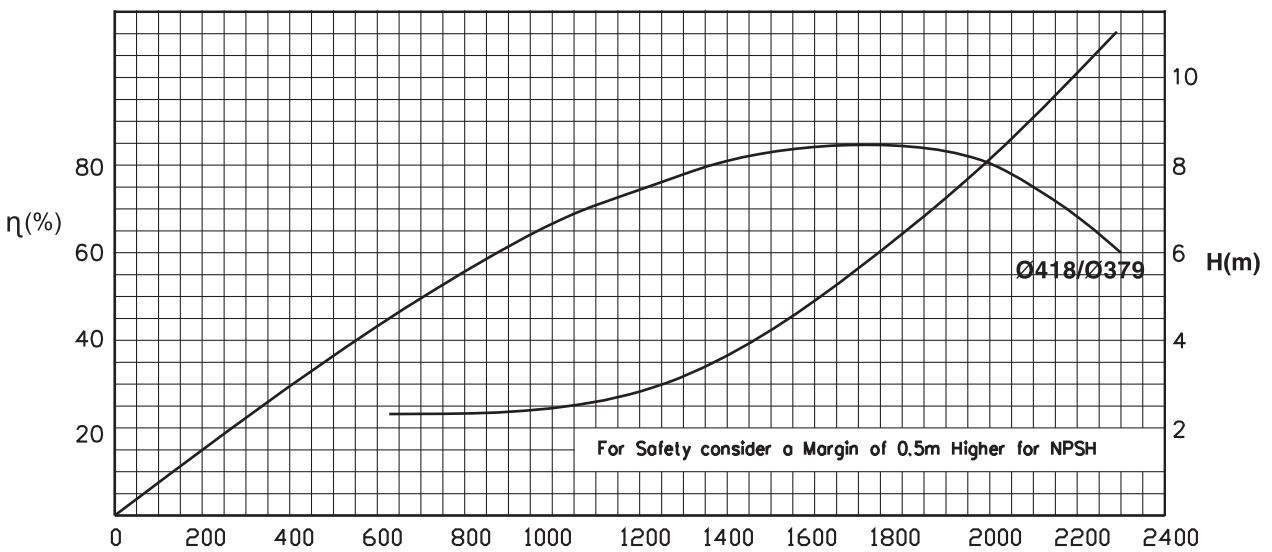
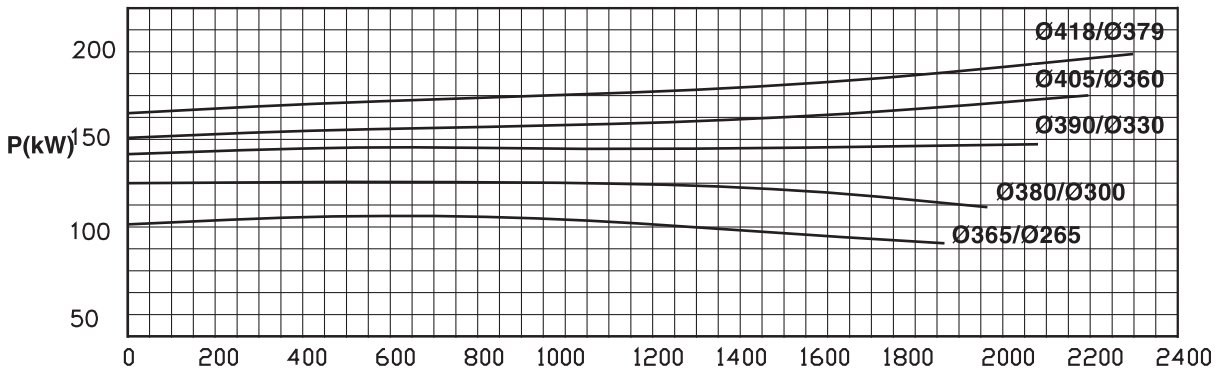
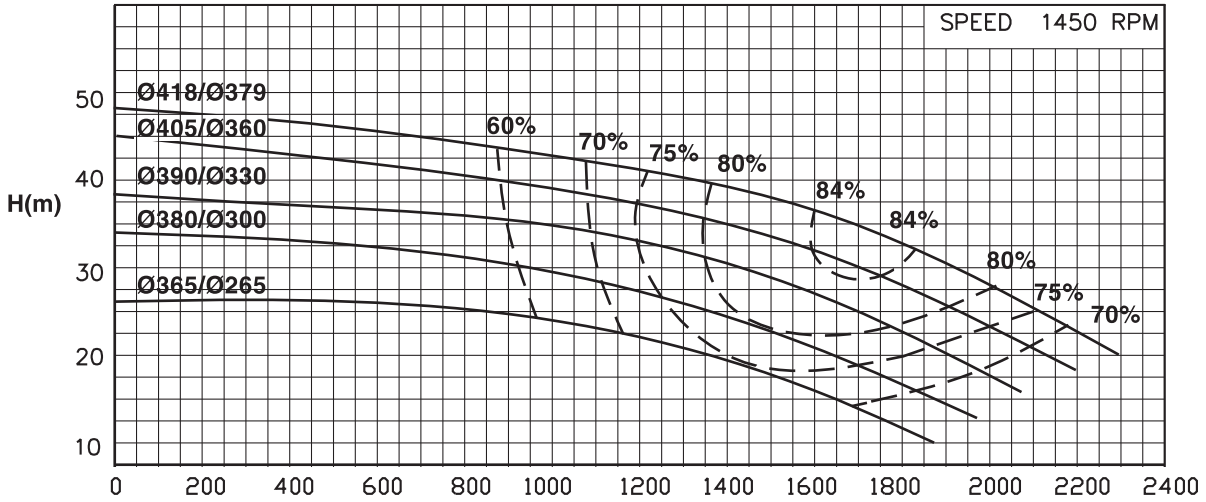
DIRECTION OF ROTATION : CLOCK WISE FROM DRIVE END



PERFORMANCE CURVE

Pump Model : **ECM-300/400**

Pump Size in mm : **350 x 300**

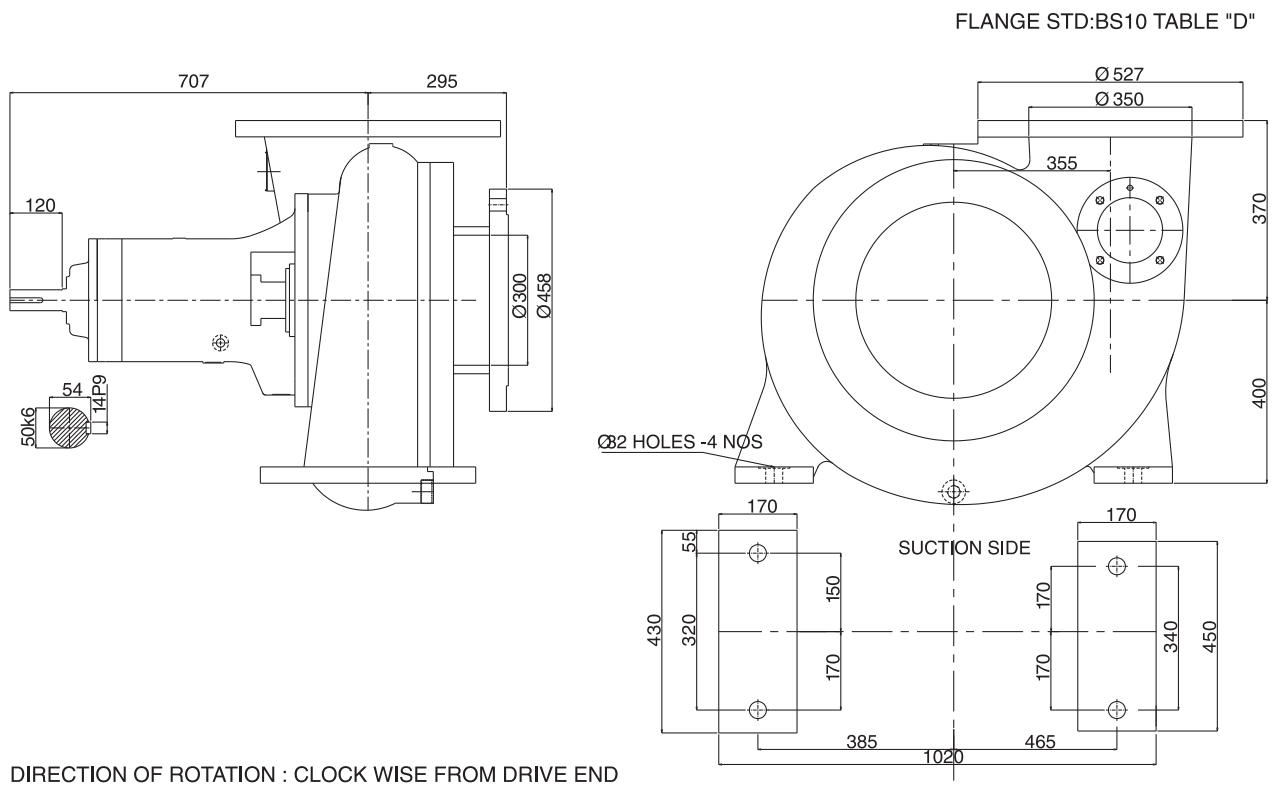




OVERALL DIMENSIONAL DRAWING

Pump Model : **ECM-350/400**

Pump Size in mm : **300 x 350**

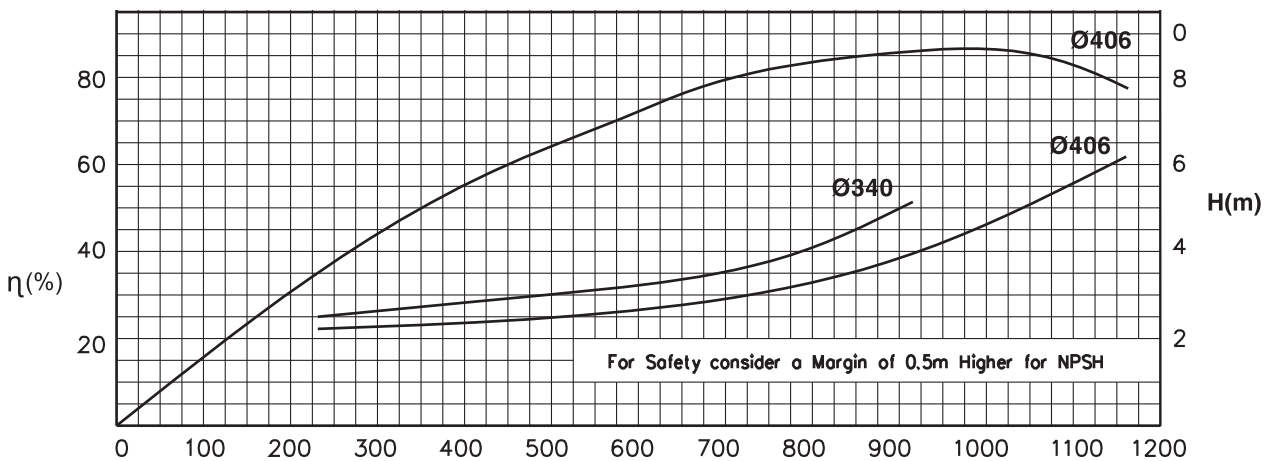
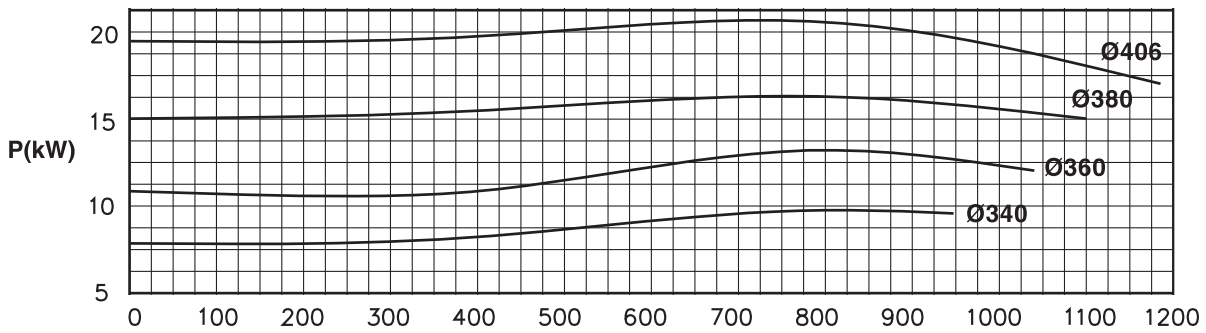
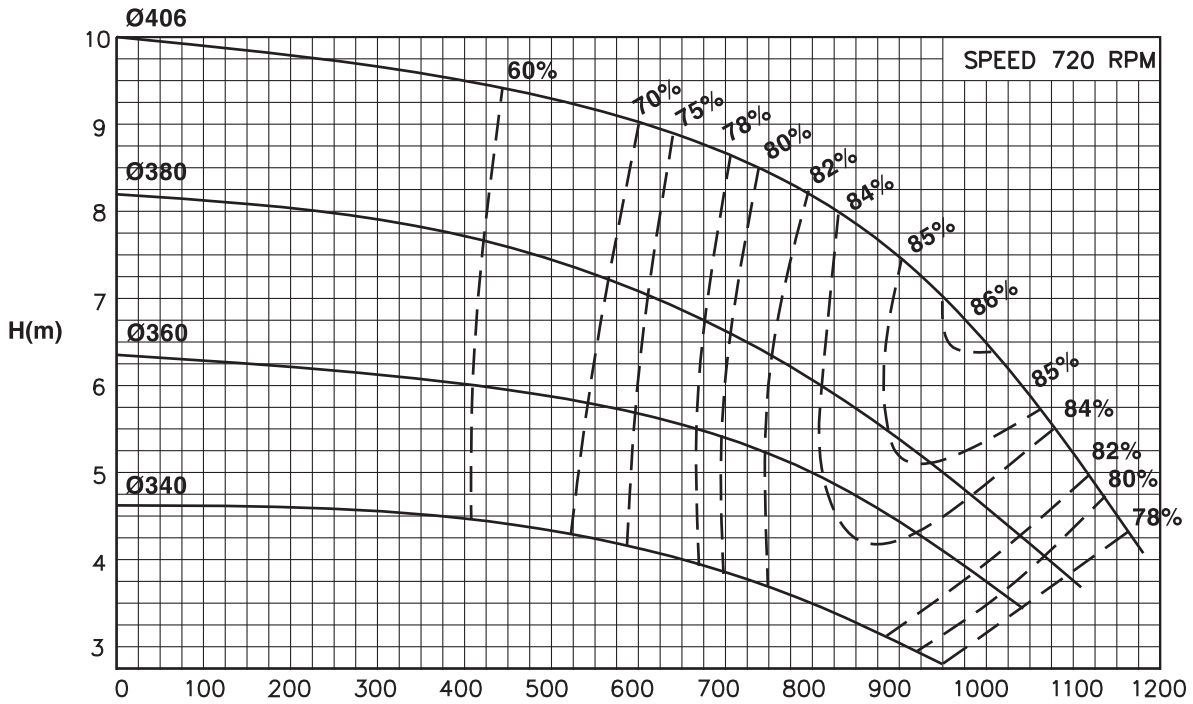




PERFORMANCE CURVE

Pump Model : ECM-350/400

Pump Size in mm : 300 x 350

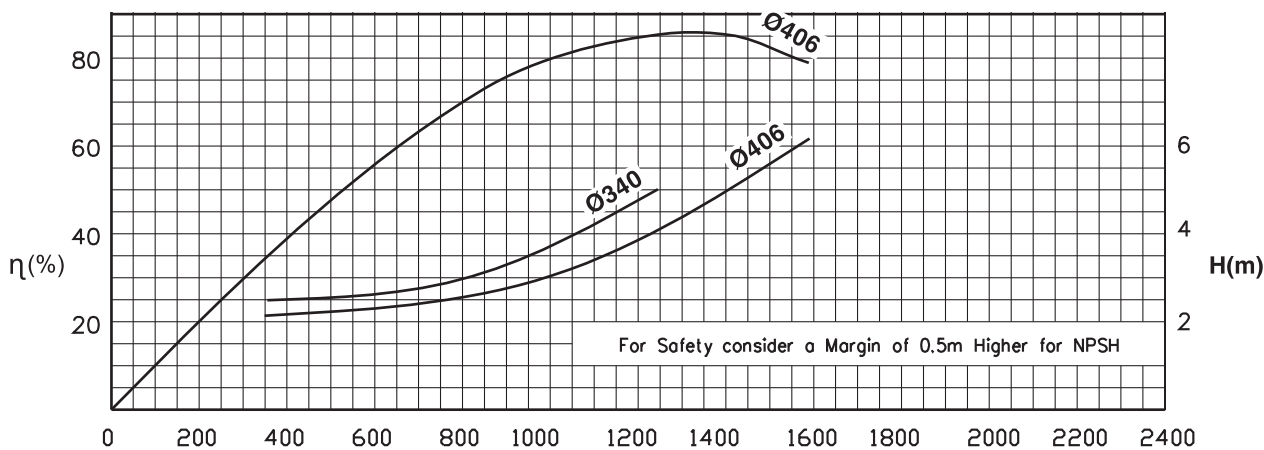
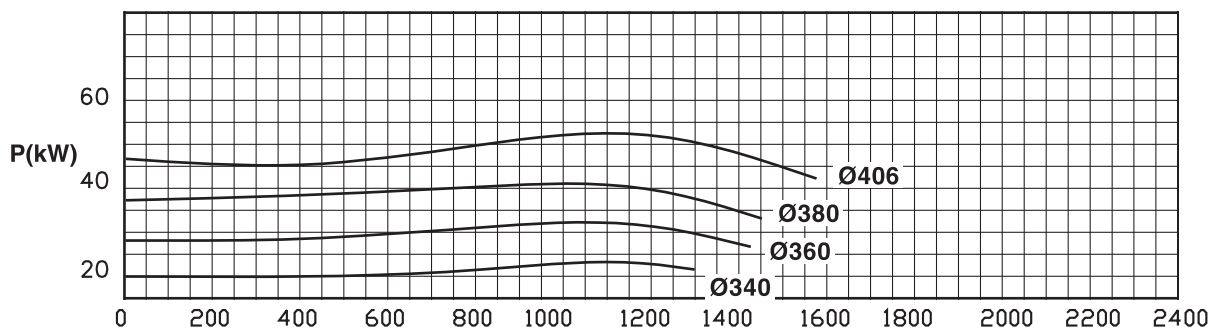
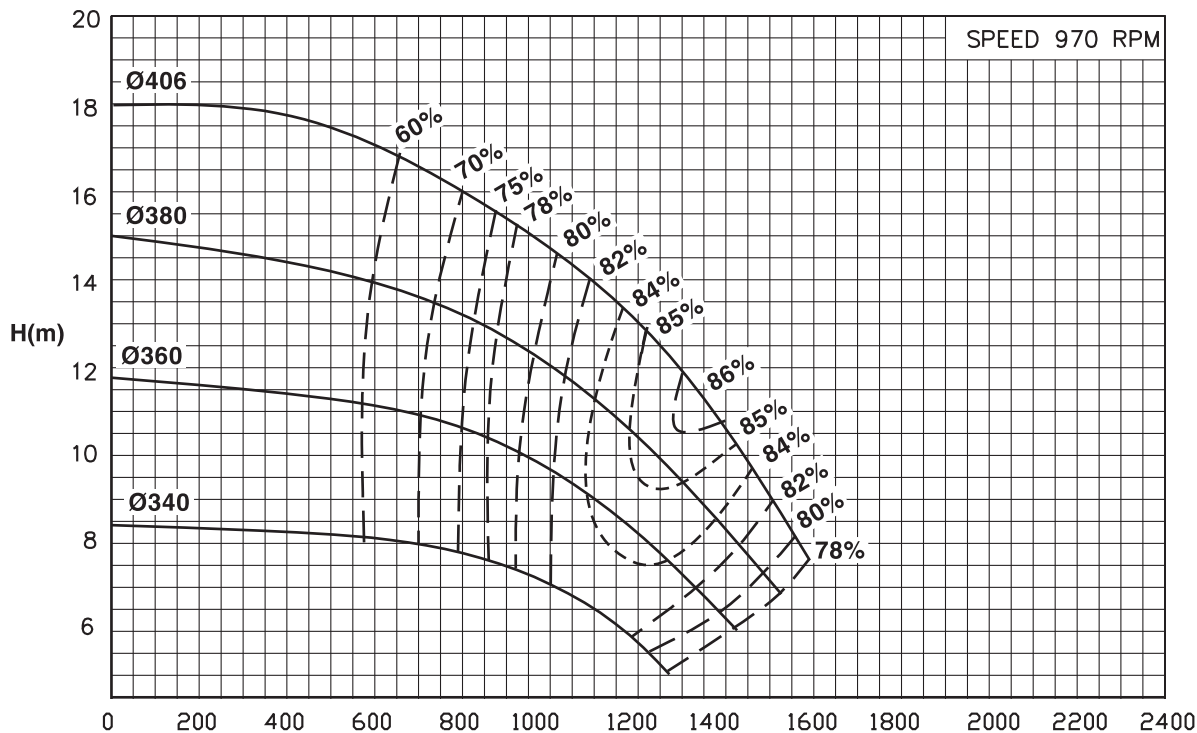




PERFORMANCE CURVE

Pump Model : **ECM-350/400**

Pump Size in mm : **300 x 350**

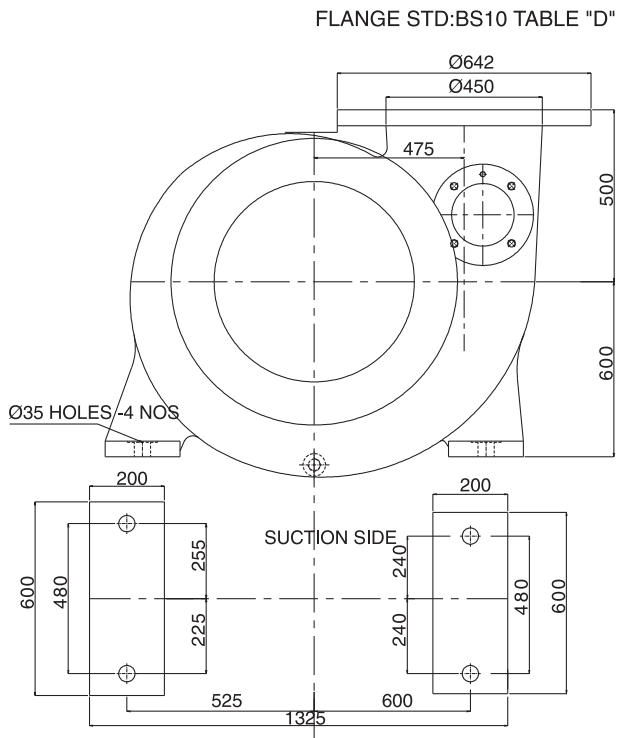
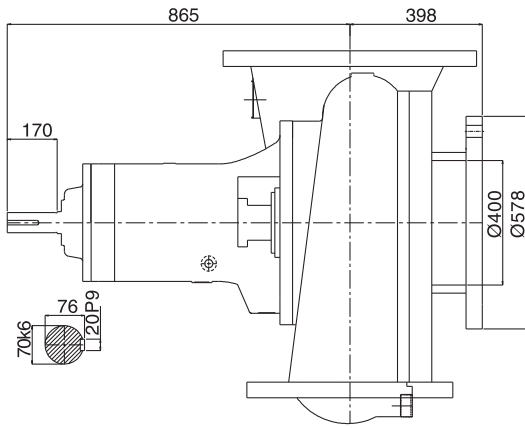




OVERALL DIMENSIONAL DRAWING

Pump Model : **ECM-450/550**

Pump Size in mm : **400 x 450**



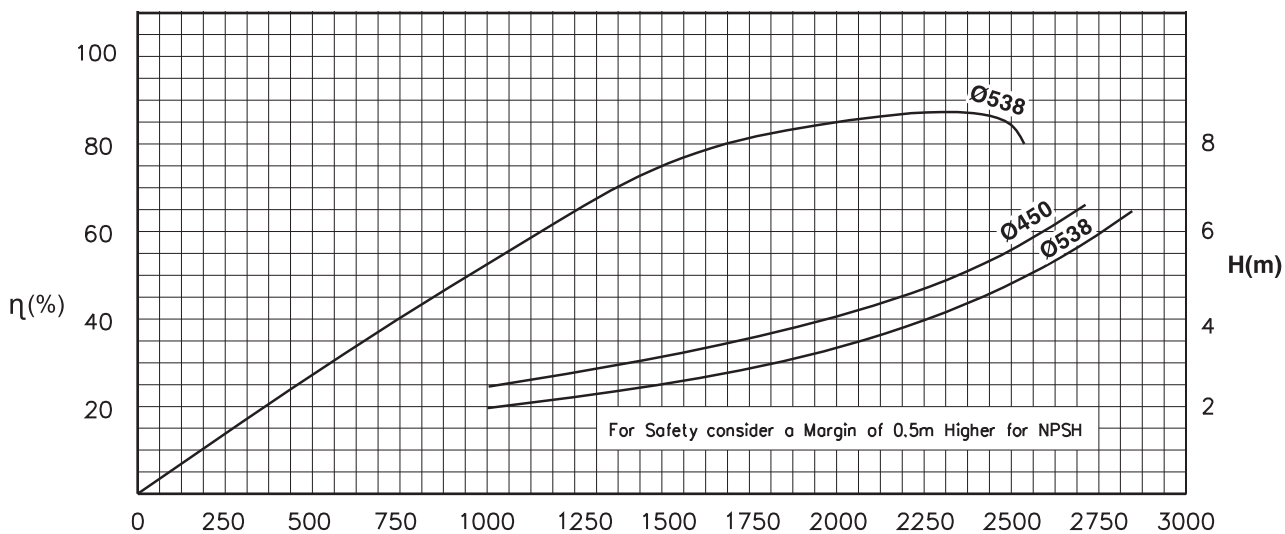
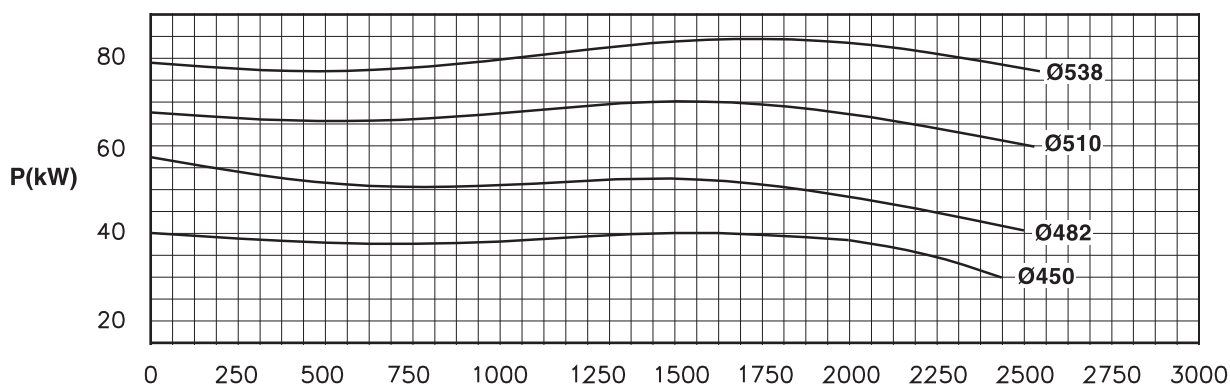
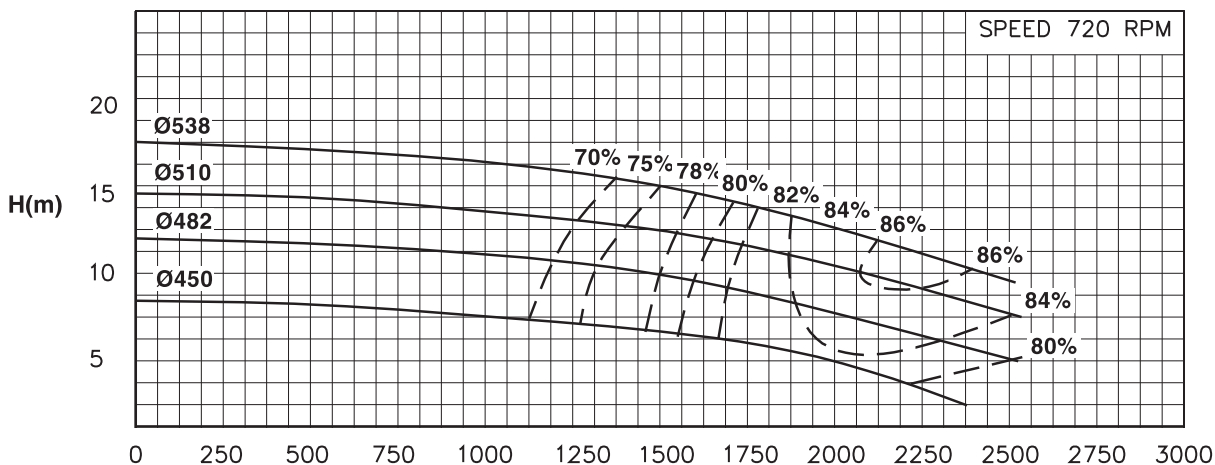
DIRECTION OF ROTATION:CLOCK WISE FROM DRIVE END



PERFORMANCE CURVE

Pump Model : **ECM-450/550**

Pump Size in mm : **400 x 450**

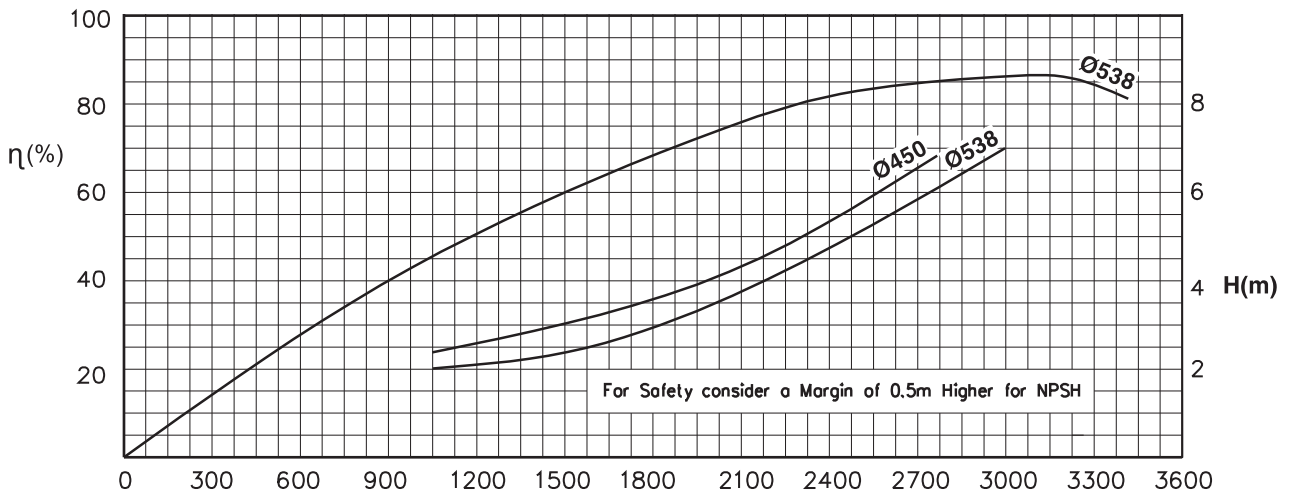
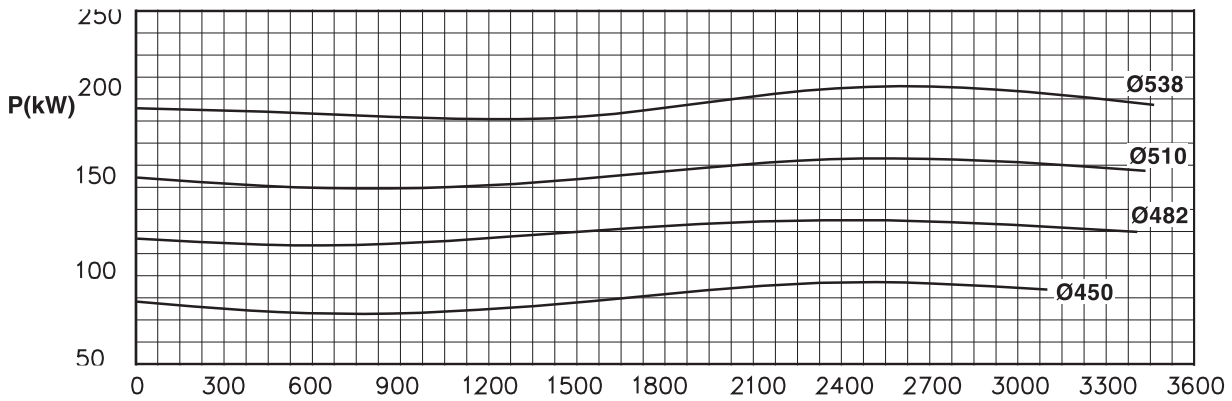
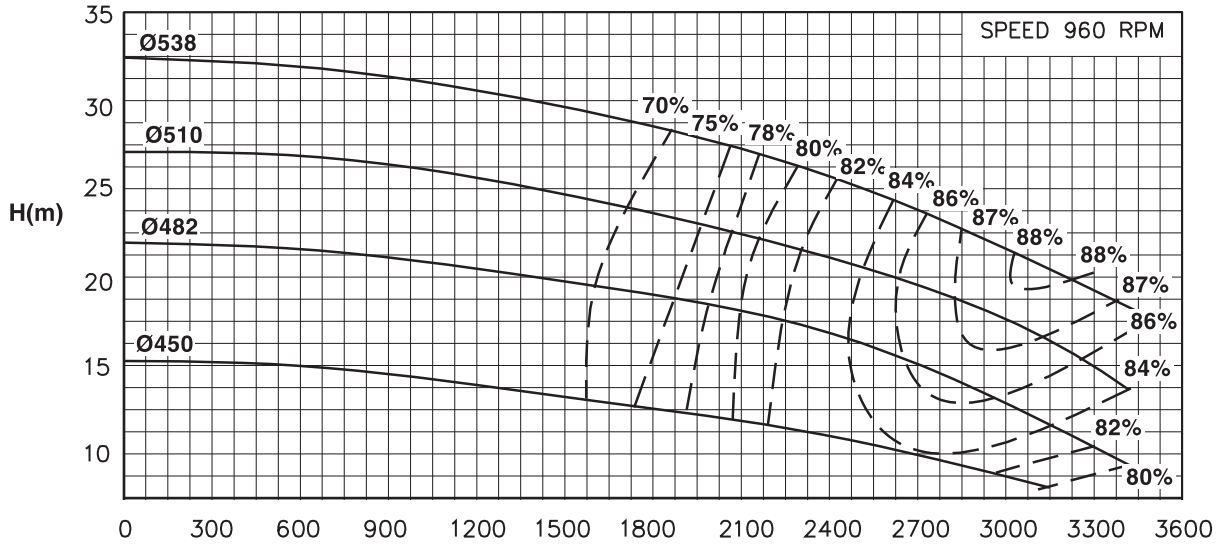




PERFORMANCE CURVE

Pump Model : ECM-450/550

Pump Size in mm : 400 x 450



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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