

**hydroo<sup>®</sup>**

**WDROO SERIES**

**WF**

**WX**

**WG**

**Submersible  
Sewage Pumps  
50Hz**



# PRESENTATION

**Hydroo Pump Industries SL is an enterprise specialised in the research, development and large-scale production of Stainless Steel centrifugal pumps. We have a vertical integration of the production processes, standing out stamping, welding and motor wiring in 6 value centers and production units. All of them with a high performance management on pump engineering and production quality.**

**HYDROO has set up a wide range of pumping solutions for many applications as building services, industry, irrigation and industrial process. Customers enjoy of the highest performance in booster sets and pressurization, fire-fighting sets, pumping of underground water, HVAC, drainage and sewage, utilities, desalination and OEM integrations. Versions in 50 Hz and 60 Hz are available, as well as any modification on materials, on request.**

**Global water challenges require excellence in pumping technologies**

**and close cooperation between pump designers, manufacturers and pump engineers. In order to better meet the customers' needs and requirements our company is facing an expansion of its operations worldwide, providing timely and effective services in more than 30 countries. With tight relationships in many regions, we're proud to introduce a new regional value center for Europe. We are based near Barcelona at the Girona industrial area. Hydroo is a trademark to forge excellent and successful business relationships with our value customers by means of an operative assembling unit and an application engineering unit. HYDROO trademark wants to symbolize the firm commitment for a high level service to our value partners.**

**At Hydroo we bet on a high level service to our value pump partners.**

# WF

## Submersible sewage pump

### Applications

Raw water  
Municipal and industrial waste water  
Rain water  
Sewage works  
General industrial services  
Construction

### Description

Robust and reliable submersible pumps for waste water applications. Pumps with double and multiple channel impellers. Autocoupling devices and hard pipe elbows available on request for all the models. Dry-pit installations available on demand.

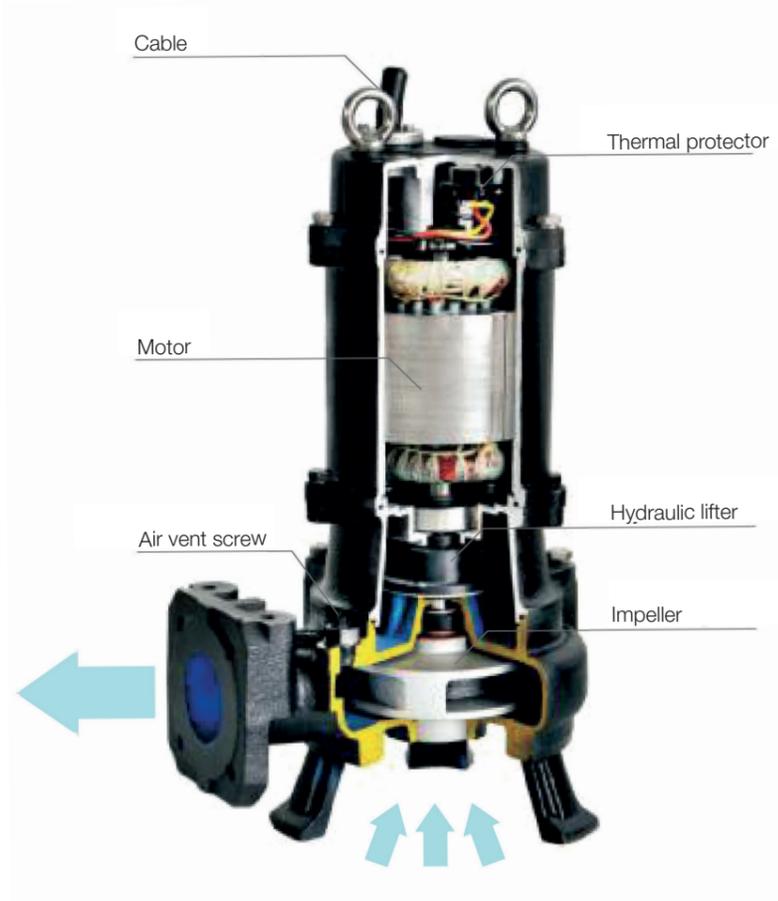
### Performance range

Flow range: up to 1800 m<sup>3</sup>/h  
Head: up to 66 m  
Temperature: up to 40 °C  
Speed: 2900/1450 rpm  
3500/1750 rpm  
Power: up to 90 kW

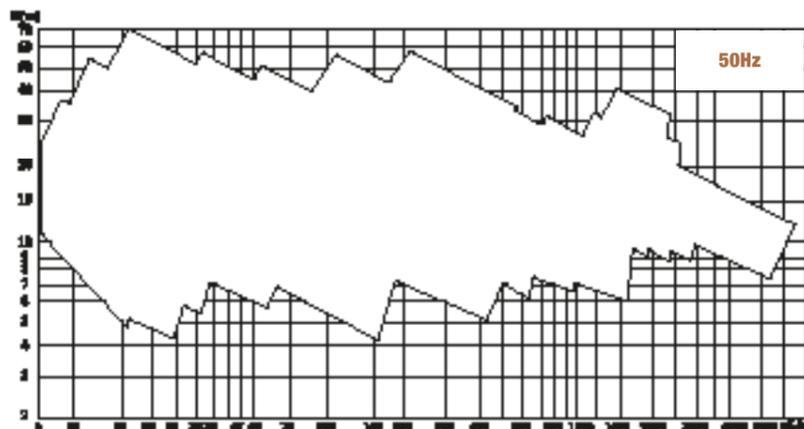
### Standard material

WF/WG: Cast iron  
WX: SS304 under request

### Section drawing



### Performance scope



### Main features

- Double channel impeller with high hydraulic efficiency.
- Compact pump construction with extended shaft that provides a reduction of the vibration, noises and operation time of the main components as bearings and mechanical seals.
- Standard H07 RNF 9 m. of cable with excellent properties in oil fluids and temperature up to 40 °C. Watertight cable connection to prevent any leakage and safety device to prevent cable pull-out
- Humidity probe to prevent failure for leakage into the motor cavity.
- Squirrel cage induction motor, protection class IP68, F class insulation and thermal protection to avoid overheating and overcurrent failures.
- Double mechanical seal made of CW/CSi (outer seal) and CSi/Graphite (inner side).
- Radial-axial maintenance-free bearings, self-lubricated.

### Applications

Mainly used for municipal engineering, residential and commercial building construction, hospitals, hotels, restaurants, industrial sewage and waste water treatment plants. Capable to convey solid particles and long fiber wastewater, sewage, rain water harvesting systems, including raw water transport, aquaculture, irrigation and floods management.

### Conditions of use

- Medium temperature not exceeding 40 °C. Volume ratio of solid phase in medium must be kept below 2%. PH value between 4 and 10.
- Minimum operating level: see installation dimensions (if no motor cooling jacket included). With a proper motor cooling jacket, the water level can be lower until ensuring the right suction conditions. Available for dry-pit installations on request.
- Main parts as pump casing and impeller made of ductile iron. WX pumps fully made in AISI304 precision casting.
- The maximum solid particles size according to the corresponding model data.

### Technical description

- Submersible pump motor rated voltage is 380V 50Hz; 60 Hz models on request.
- 1. Single phase 230 V 50 Hz motors from 0.55 to 2.2kW are available on request.
- 2. On request 690 V 50 Hz three phase motors are also available.
- 3. Motor winding connection and start mode is Y shaped DOL for 3 to 11kW. also DOL start and higher motor power are
- 4. Motor power from 15 to 110kW is Delta-Star start, soft start or electronic start recommended (6 lines directly lead out by Y- start)
- 5. Pumps are equipped with a variety of protective devices; on request level control with float switch is also available.
- 6. Main motor protections as overheating and overcurrent are included for 7,5 kW and below. PTC also available on demand.
- 7. Counter clockwise rotation from pump suction side.
- 8. Outlet flange according to GB17241.6, nominal pressure is PN6, except for DN ≥ 150 being PN10. Stainless steel versions are PN10.

## Definition of model

Hydraulic part description

W F 150 150 - 12

Motor description

11 T 0040 5 2

Number of poles

5: 50 Hz Motor  
6: 60 Hz Motor

Voltage Motor  
0023: 230V  
0040: 400V

S: Single phase  
T: Three phase

Power P2 (kW)

Rated Head (m)

Rated flow (m<sup>3</sup>/h)

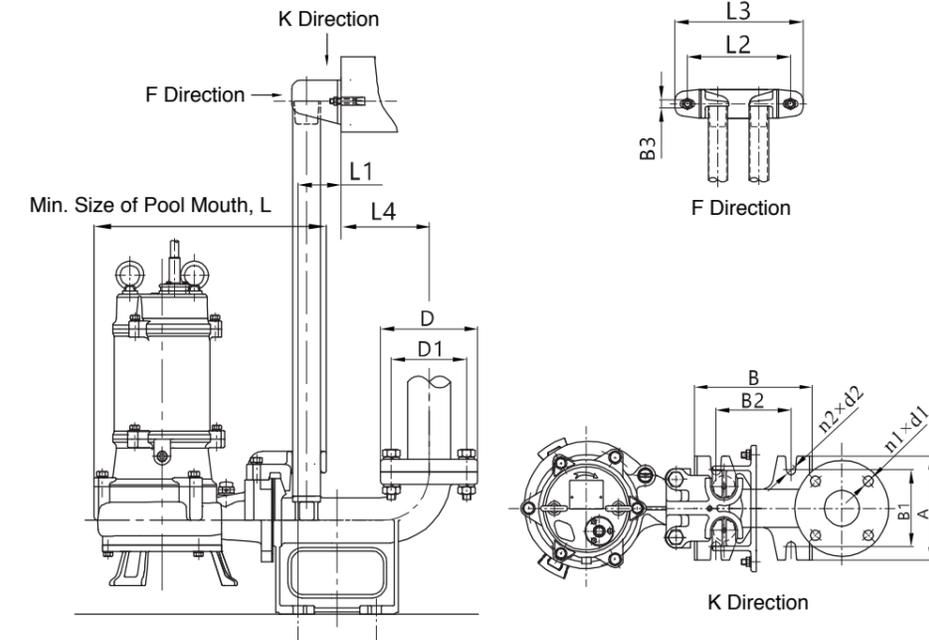
Discharge outlet diameter (mm)

F: Cast Iron Version  
G: Grinder Cast Iron Version  
X: SS304 Version

Submersible Sewage Pump

## Installation types

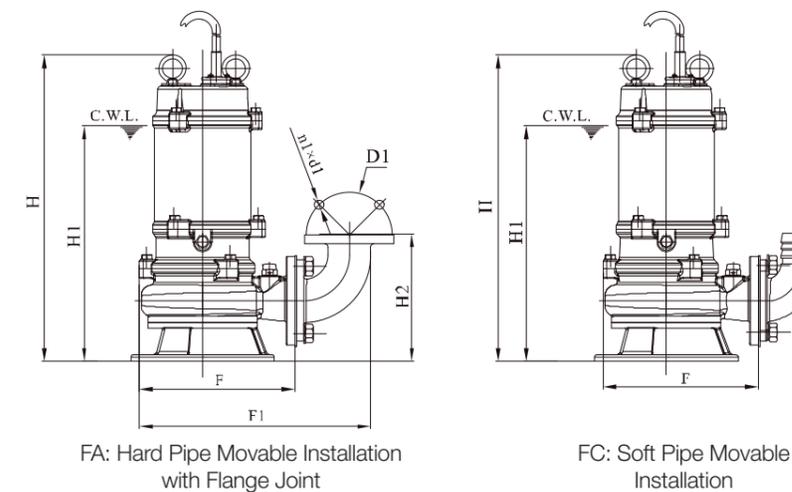
### FB: Fixed auto Coupling Device Installation



### FD: Dry Pit Installation



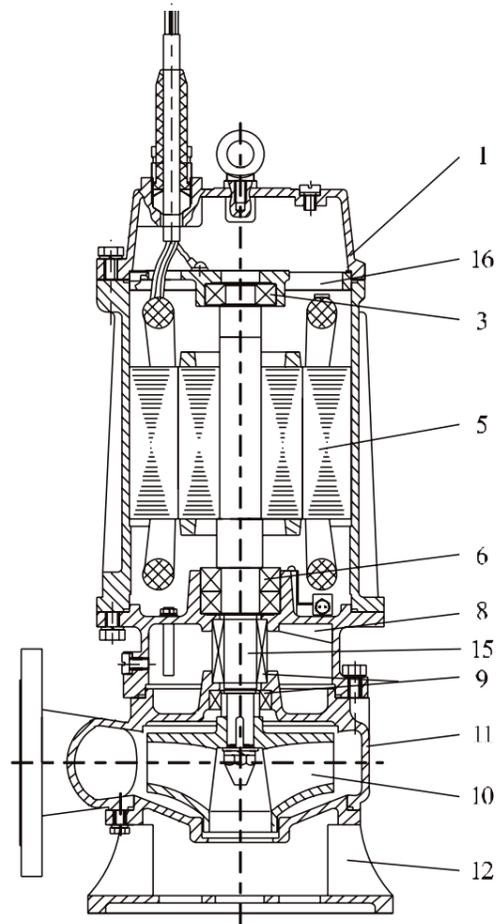
### FA/FC: Movable Installation



FA: Hard Pipe Movable Installation with Flange Joint

FC: Soft Pipe Movable Installation

## Construction materials



N°	Part	Material	ISO spec	ASTM spec
1	Pump Cover	Cast Iron	ISO 185 Grade 200	ASTM A48 Class 30
3	Bearing			
5	Motor			
6	Bearing			
8	Oil Chamber	Cast Iron	ISO 185 Grade 200	ASTM A48 Class 30
9	Mechanical Seal	Sic/Tungsten Carbide		
10	Impeller	Cast Iron	ISO 185 Grade 200	ASTM A48 Class 30
11	Casing	Cast Iron	ISO 185 Grade 200	ASTM A48 Class 30
12	Base	Cast Iron	ISO 185 Grade 200	ASTM A48 Class 30
15	Shaft	Stainless steel	AISI 304	AISI 304
16	Thermal Protector			AISI 304

## Coupling device dimensions

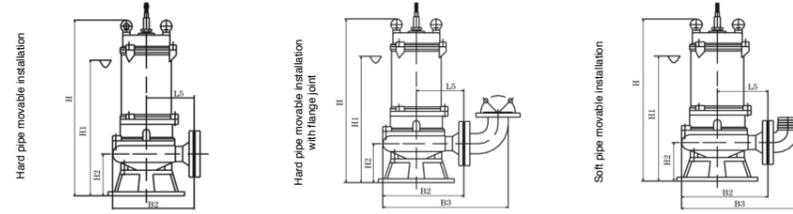
N°	Diameter	Flange connection size PN6				Coupling base dimension (mm)						L	L1	L2	L3	L4
		D	D1	n1xd1	n1xMd	A	B	B1	B2	B3	n2xd2					
1	DN50	140	110	4-ø14	4-M12	160	200	120	120	2-ø14	4-ø18	400	60	185	230	175
2	DN65	160	130	4-ø14	4-M12	190	220	140	140	2-ø14	4-ø18	415	75	195	230	130
3	DN80	190	150	4-ø18	4-M16	220	250	170	170	2-ø14	4-ø18	415	75	195	230	165
4	DN100	210	170	4-ø18	4-M16	250	290	200	200	2-ø15	4-ø18	480	114	245	300	176
5	DN150	265	225	8-ø18	8-M16	400	410	300	300	3-ø15	4-ø24	925	190	260	380	190
6	DN200	320	280	8-ø19	8-M16	400	450	300	350	3-ø15	4-ø24	1048	200	260	380	229
7	DN250	375	335	12-ø19	12-M16	460	560	360	430	3-ø15	4-ø24	1205	200	280	380	300
8	DN300	440	395	12-ø23	12-M20	600	630	500	470	3-ø18	4-ø28	1078	270	400	700	300

## Dimensions

Measure:mm (Except inch)

Diameter	DN40	DN50	DN65	DN80	DN100	DN150	DN200	DN250	DN300
Guide rod tap pipe/ Seamless steel pipe	1"/33X3.0		1-1/4"/42X3.0		2"/60X3.25	1-1/2"/48X3.25			2-1/2"/75X4
Guide rod length	Pool depth -245	Pool depth -285	Pool depth -300	Pool depth -320	Pool depth -365	Pool depth -100			Pool depth -150
Quantity of expansion bolt and specification	2-M10X120				2-M12X125			2-M16X150	
Quantity of bolt and specification	4-M16X250					4-M20X300			4-M24X350
Footer bolt hole size	80X80X300					100X100X350			120X120X400
Dia. of soft pipe	1-1/2"/40	2"/50	2-1/2"/65	3"/80	4"/100	6"/150	8"/200	10"/250	12"/300

## Dimensions



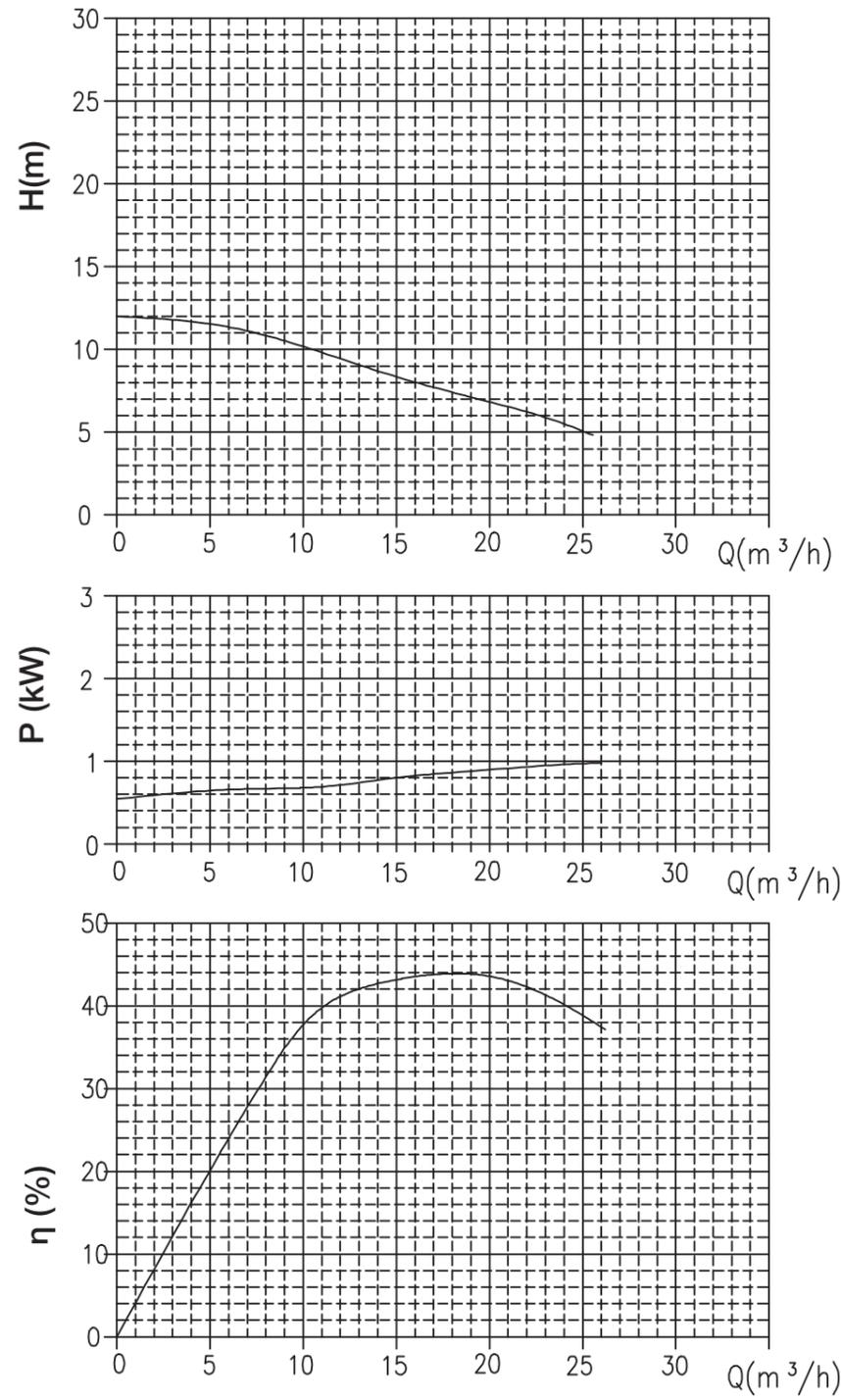
N°	Model	Outlet Dia DN	Flowrate Q m³/hr	Head m	Speed r/min	Power kW	Pump eff. %	Motor eff. %	Power factor cos φ	Pated Current A	Solid passage mm	Dimension (mm)					Kg	
												H	HI	B3	B2	L5		H2
1	WF50 10-10/0.75	50	10	10	2900	0.75	38	67	0.83	1.83	10	460	398	390	243	135	110	23
2	WF50 15-10/1.5	50	15	10	2900	1.1	46	70	0.85	2.60	10	520	415	390	270	150	120	25
3	WF50 10-15/1.5	50	10	15	2900	1.5	38	73	0.84	3.50	15	520	415	390	270	150	120	31
4	WF50 9-22/2.2	50	9	22	2900	2.2	35	75	0.85	4.90	10	520	450	400	280	160	125	37
5	WF50 15-30/3	50	15	30	2900	3	42	77	0.87	6.40	25	550	480	380	280	160	125	43
6	WF50 15-35/4	50	15	35	2900	4	42	78	0.87	8.10	25	580	480	406	286	160	134	61
7	WF50 15-40/5.5	50	15	40	2900	5.5	32	81	0.88	11.00	30	635	510	430	310	185	134	68
8	WF50 20-40/7.5	50	20	39	2900	7.5	38	82	0.88	15.00	25	690	510	445	325	185	140	95
9	WF55 15-10/1.5	66	15	12	2900	1.5	43	73	0.84	3.50	30	600	480	495	305	180	168	38
10	WF55 25-10/2.2	65	25	13	2900	2.2	46	75	0.85	4.90	30	630	480	495	305	180	168	38
11	WF55 25-15/3	65	25	16	2900	3	36	77	0.87	6.40	30	630	480	495	305	180	168	42
12	WF55 20-25/4	65	20	25	2900	4	43	78	0.87	8.10	30	605	525	495	305	180	134	60
13	WF55 30-30/5.5	65	30	30	2900	5.5	50	81	0.88	11.00	30	605	525	495	305	180	134	65
14	WF55 40-35/7.5	65	40	35	2900	7.5	41	82	0.88	15.00	25	850	685	570	380	185	134	73
15	WF55 40-45/11	65	40	45	2900	11	47	83	0.89	22.00	25	850	685	570	380	185	134	148
16	WF55 40-10/3	80	40	10	2900	2.2	61	75	0.85	4.90	30	585	395	547	337	200	140	41
17	WF55 40-12/3	80	40	13	2900	3	45	77	0.87	6.40	30	545	460	488	298	180	125	43
18	WF55 40-12/4	80	60	11	2900	4	43	78	0.88	8.10	30	635	500	440	310	180	152	61
19	WF55 30-30/5.5	80	30	30	2900	5.5	49	81	0.88	11.00	30	625	545	440	315	185	140	74
20	WF55 65-15/5.5	80	65	15	2900	5.5	58	81	0.88	11.00	30	625	545	440	315	185	140	74
21	WF55 70-15/7.5	80	70	13	2900	7.5	50	82	0.88	15.00	30	710	610	510	365	205	146	100
22	WF55 40-45/11	80	40	45	2900	11	42	83	0.88	22.00	30	850	780	500	365	195	185	153
23	WF55 50-45/15	80	50	47	2900	15	38	84	0.88	29.00	30	905	835	500	365	195	185	171
24	WF55 90-40/22	80	90	41	2900	22	44	86	0.89	42.00	30	905	835	500	365	195	185	171
25	WF100 50-10/2.2	100	50	10	2900	2.2	42	75	0.85	4.90	35	600	520	550	320	190	140	41
26	WF100 60-10/3	100	60	9	2900	3	47	77	0.87	6.40	35	600	520	550	320	190	140	46
27	WF100 70-10/4	100	70	9	2900	4	47	78	0.87	8.10	35	670	490	555	325	185	170	62
28	WF100 65-15/5.5	100	65	15	2900	5.5	51	81	0.88	11.00	35	670	490	560	330	190	185	74
29	WF100 80-15/7.5	100	80	15	2900	7.5	48	82	0.88	15.00	35	710	620	585	355	205	151	103
30	WF100 80-25/11	100	80	25	1450	11	48	83	0.85	23.00	35	910	710	780	550	325	210	212
31	WF100 80-30/15	100	80	30	1450	15	56	84	0.85	30.00	35	950	780	780	550	325	210	239
32	WF100 80-35/18.5	100	80	35	1450	18.5	47	85	0.85	36.00	35	1115	875	780	550	325	210	285
33	WF100 100-30/22	100	100	30	2900	32	49	86	0.87	42.00	35	1024	845	980	750	450	220	300
34	WF100 100-40/30	100	100	40	1450	30	45	86	0.87	58.00	35	1250	1100	800	600	450	200	432
35	WF100 100-50/37	100	100	49	1450	37	45	89	0.87	70.00	35	1500	1300	800	620	480	225	442
36	WF100 100-60/45	100	100	57	1450	45	41	89	0.88	85.00	35	1800	1450	900	720	460	225	475
37	WF100 160-50/55	100	160	54	1450	55	45	90	0.88	103	35	1800	1450	900	720	460	225	475
38	WF150 100-7/5.5	100	100	7	2900	5.5	42	81	0.88	11.00	45	760	620	790	390	200	180	83
39	WF150 80-15/7.5	150	80	13	2900	7.5	49	83	0.88	15.00	45	800	650	805	405	225	178	108
40	WF150 120-10/7.5	150	120	10	1450	7.5	52	82	0.85	16.00	45	890	700	920	520	300	178	143

N°	Model	Outlet Dia DN	Flowrate Q m³/hr	Head m	Speed r/min	Power kW	Pump eff. %	Motor eff. %	Power factor cos φ	Pated Current A	Solid passage mm	Dimension (mm)					Kg	
												H	HI	B3	B2	L5		H2
41	WF150 150-14/11	150	150	14	1450	11	58	83	0.85	23.00	45	1050	800	1050	650	350	250	220
42	WF150 180-15/15	150	180	17	1450	15	60	84	0.85	30.00	45	990	790	770	575	355	240	242
43	WF150 180-20/18.5	150	185	21	1450	18.5	65	85	0.9	36.00	45	1080	880	830	581	350	240	290
44	WF150 200-20/22	150	200	20	1450	22.0	57	86	0.9	42.00	45	1150	880	995	595	380	250	320
45	WF150 200-25/30	150	200	24	1450	30	56	86	0.87	58.00	45	1240	1000	860	650	380	240	455
46	WF150 200-35/37	150	200	34	1450	37	50	89	0.87	70.00	45	1240	1000	1080	680	400	270	485
47	WF150 200-40/45	150	180	40	1450	45	55	89	0.87	85.00	50	1360	960	1110	710	380	225	528
48	WF200 300-7/11	200	300	7	1450	11	45	83	0.85	23.00	55	960	760	870	580	355	240	230
49	WF200 250-11/15	200	250	13	1450	15	55	84	0.85	30.00	55	1000	800	870	580	355	240	257
50	WF200 250-15/18.5	200	250	15	1450	19	55	85	0.85	36.00	50	1120	850	870	580	355	250	312
51	WF200 300-15/22	200	300	15	1450	22	55	86	0.87	42.00	55	1150	890	870	580	355	250	330
52	WF200 350-15/30	200	360	18	1450	30	58	86	0.87	58.00	55	1240	1000	910	620	380	285	475
53	WF200 300-25/37	200	300	25	1460	37	63	89	0.87	70.00	55	1260	1020	910	620	380	285	528
54	WF200 250-30/45	200	250	30	1450	53	70	89	0.87	85.00	55	1320	1100	910	620	380	285	575
55	WF200 300-40/55	200	300	40	1450	57	73	90	0.87	103.00	55	1500	1150	1010	720	458	335	806
56	WF200 350-40/75	200	350	41	1450	52	67	90	0.87	140.00	50	1550	1250	1010	720	458	335	906
57	WF200 350-50/90	200	350	350	1450	50												
58	WF250 400-5/11	250	400	6	1450	11	50	83	0.87	22.00	70	1290	890	870	520	450	260	247
59	WF250 400-7/15	250	400	8	1450	15	54	84	0.87	30.00	70	1350	890	870	520	450	260	276
60	WF250 400-10/18.5	250	400	10	1450	19	54	86	0.85	36.00	70	1290	1050	1010	660	390	335	330
61	WF250 500-10/22	250	500	9	1450	22	50	86	0.87	42.00	70	1290	1050	1010	660	390	330	351
62	WF250 600-10/30	250	600	9	1450	30	45	86	0.87	58.00	70	1290	1050	1010	660	390	330	490
63	WF250 500-15/37	250	500	20	1450	37	57	89	0.87	70.00	70	1320	1080	1010	660	390	330	545
64	WF250 600-15/45	250	600	17	1450	58	72	89	0.87	85.00	70	1360	1100	1010	660	390	330	600
65	WF250 650-15/55	250	650	15	1450	64	72	90	0.87	103	70	1500	1150	1070	720	458	390	825
66	WF250 600-25/75	250	600	25	1450	75	60	90	0.87	140	65	1520	1180	1070	720	458	390	955
67	WF250 500-30/90	250	500	30	1450	90	70	91	0.871	167	65	1580	1200	1070	720	458	390	1008
68	WF250 600-35/110	250	600	36	1450	110	64	91	0.871	201	80	2080	1500	1190	840	460	380	1408
69	WF250 650-50/132	250	650	50	1450	132	52	91	0.871	241	80	2080	1800	1220	870	510	400	1510
70	WF250 600-60/160	250	600	60	1450	160	63											
71	WF300 600-7/22	300	650	8	1450	22	52	86	0.87	42.00	70	1290	1060	1415	660	410	330	492
72	WF300 750-7/30	300	750	8	1450	30	57											

# WF50 10-10/0.75

Performance curve

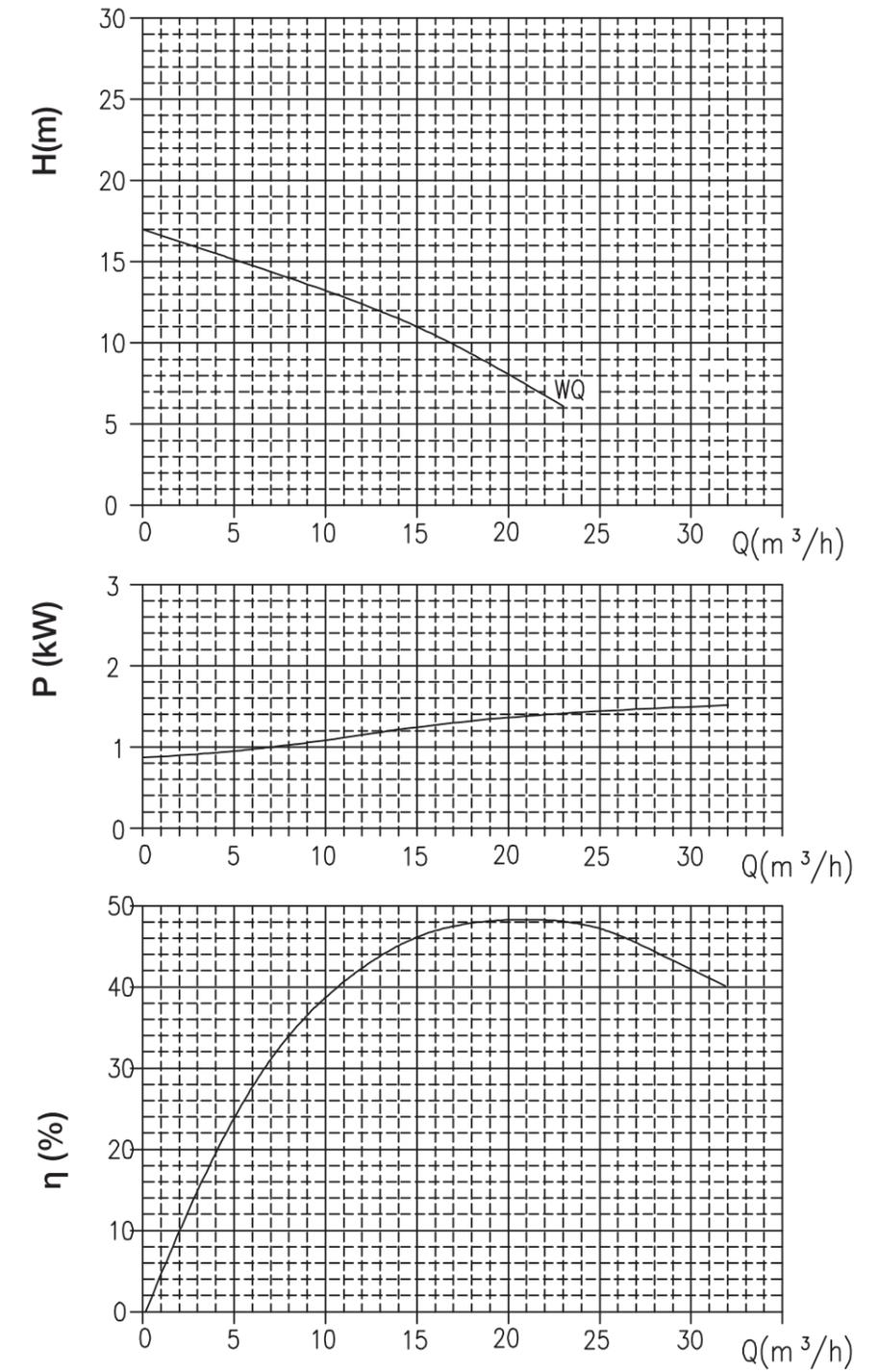
2900 r/min



# WF50 15-10/1.5

Performance curve

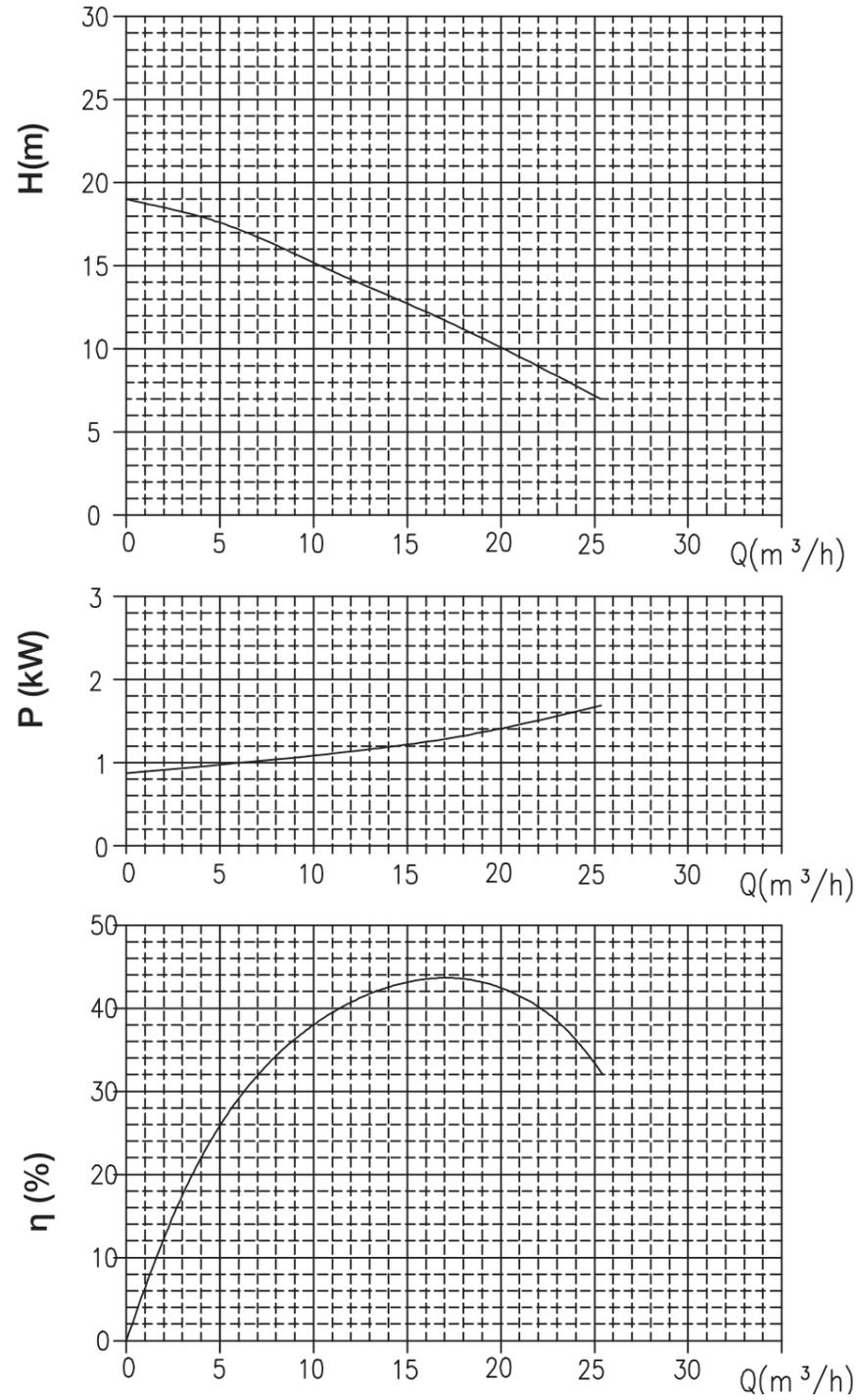
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# WF50 10-15/1.5

Performance curve

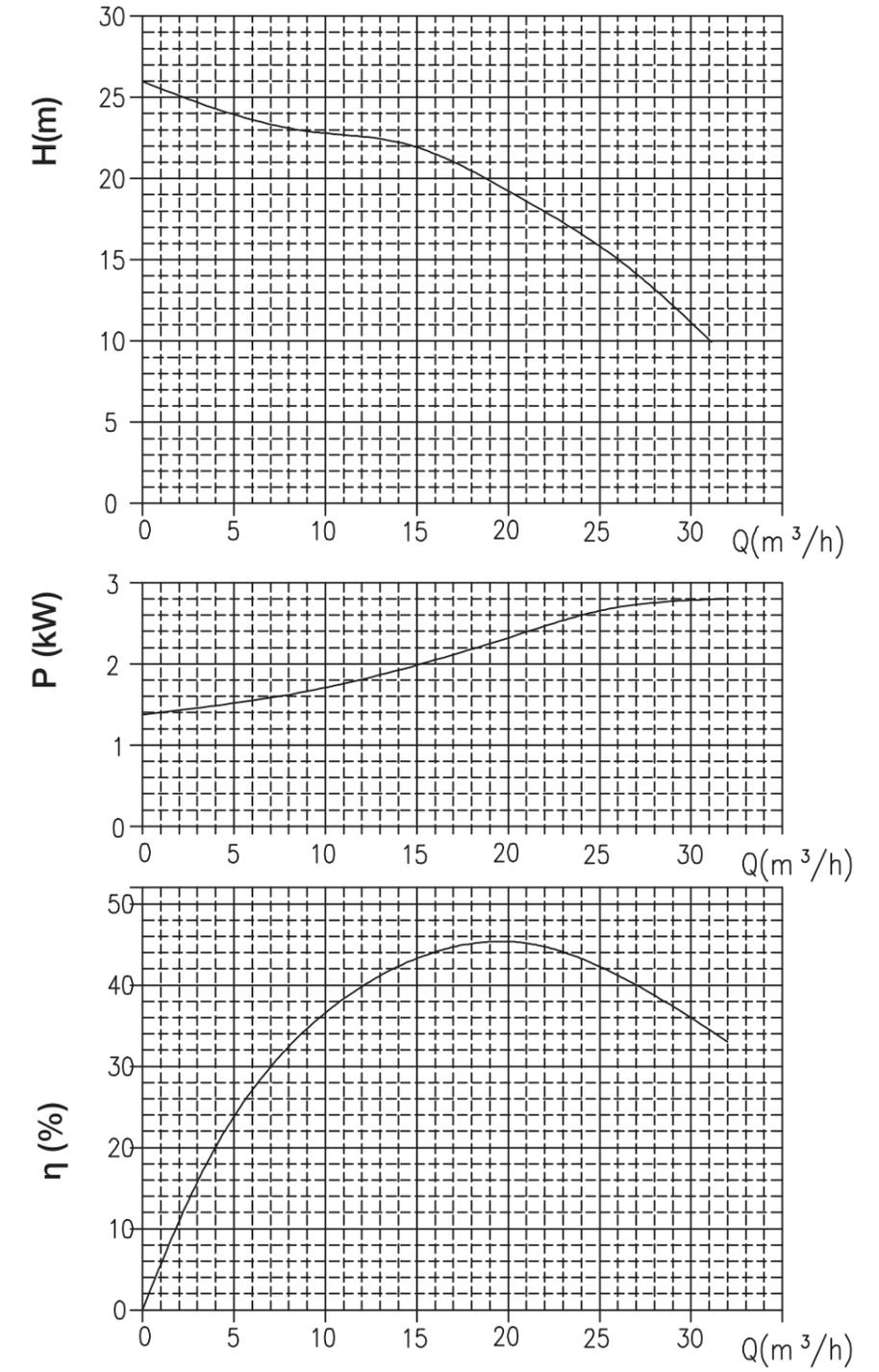
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# WF50 9-22/2.2

Performance curve

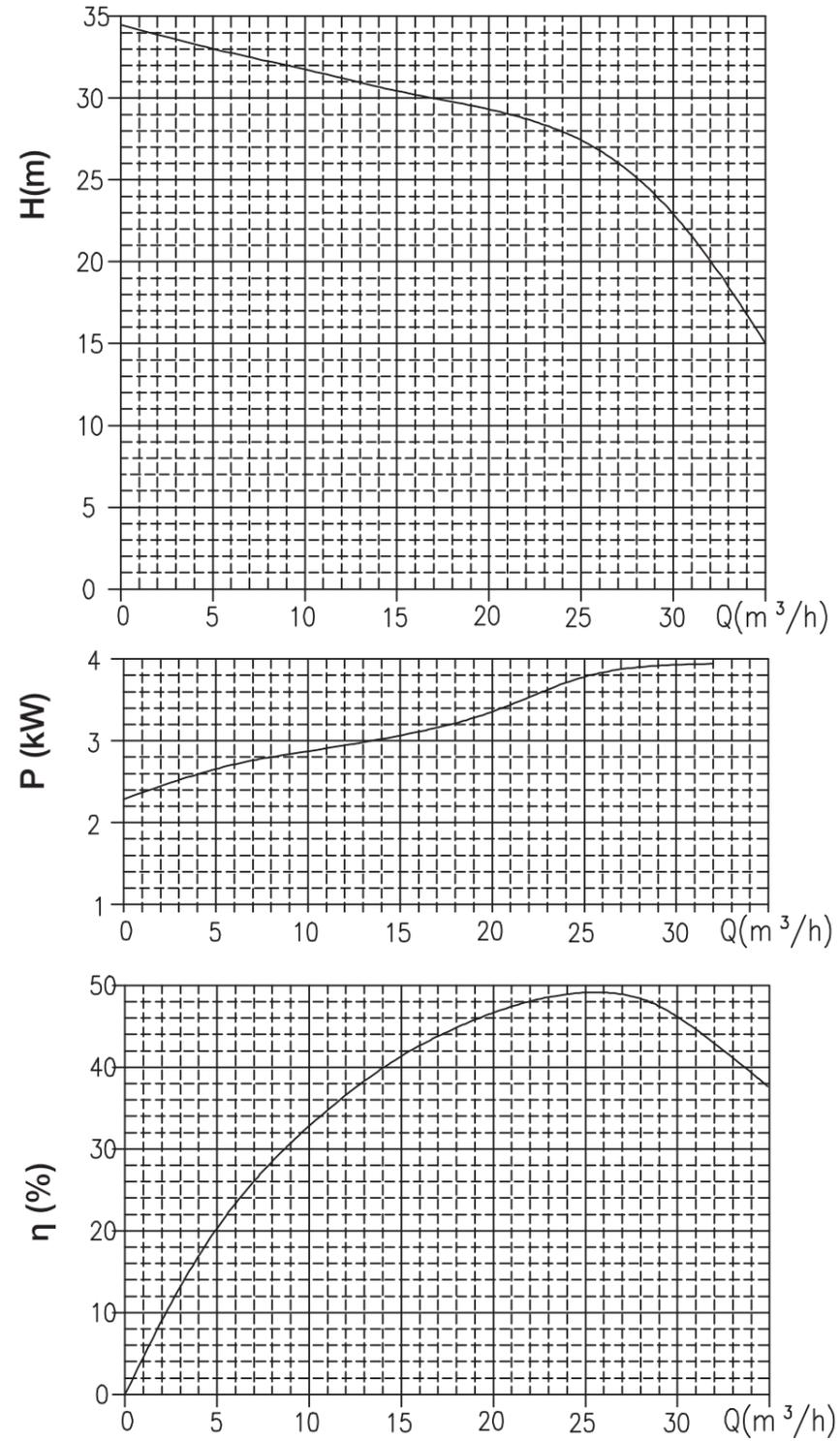
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# WF50 15-30/3

Performance curve

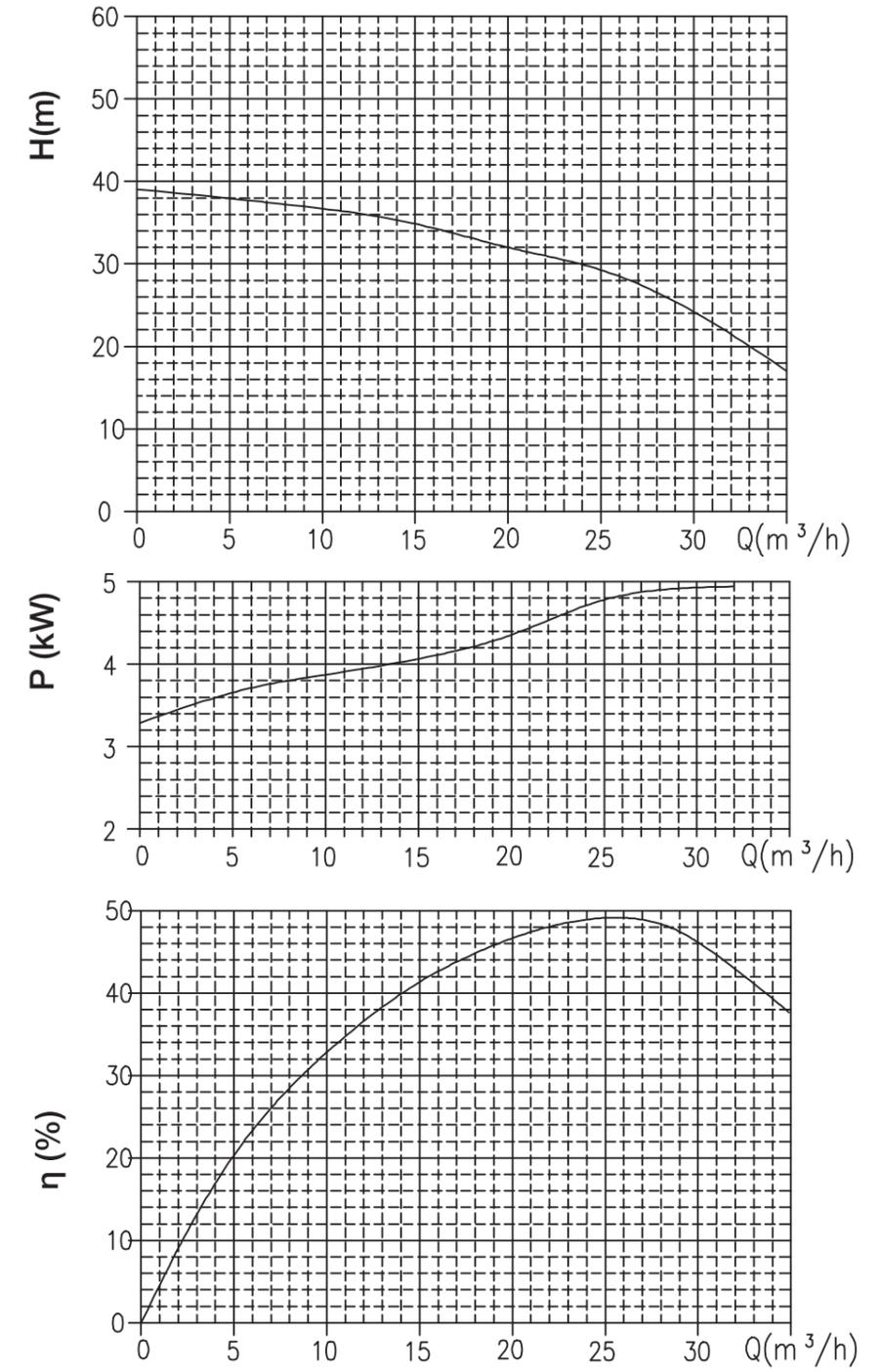
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# WF50 15-35/4

Performance curve

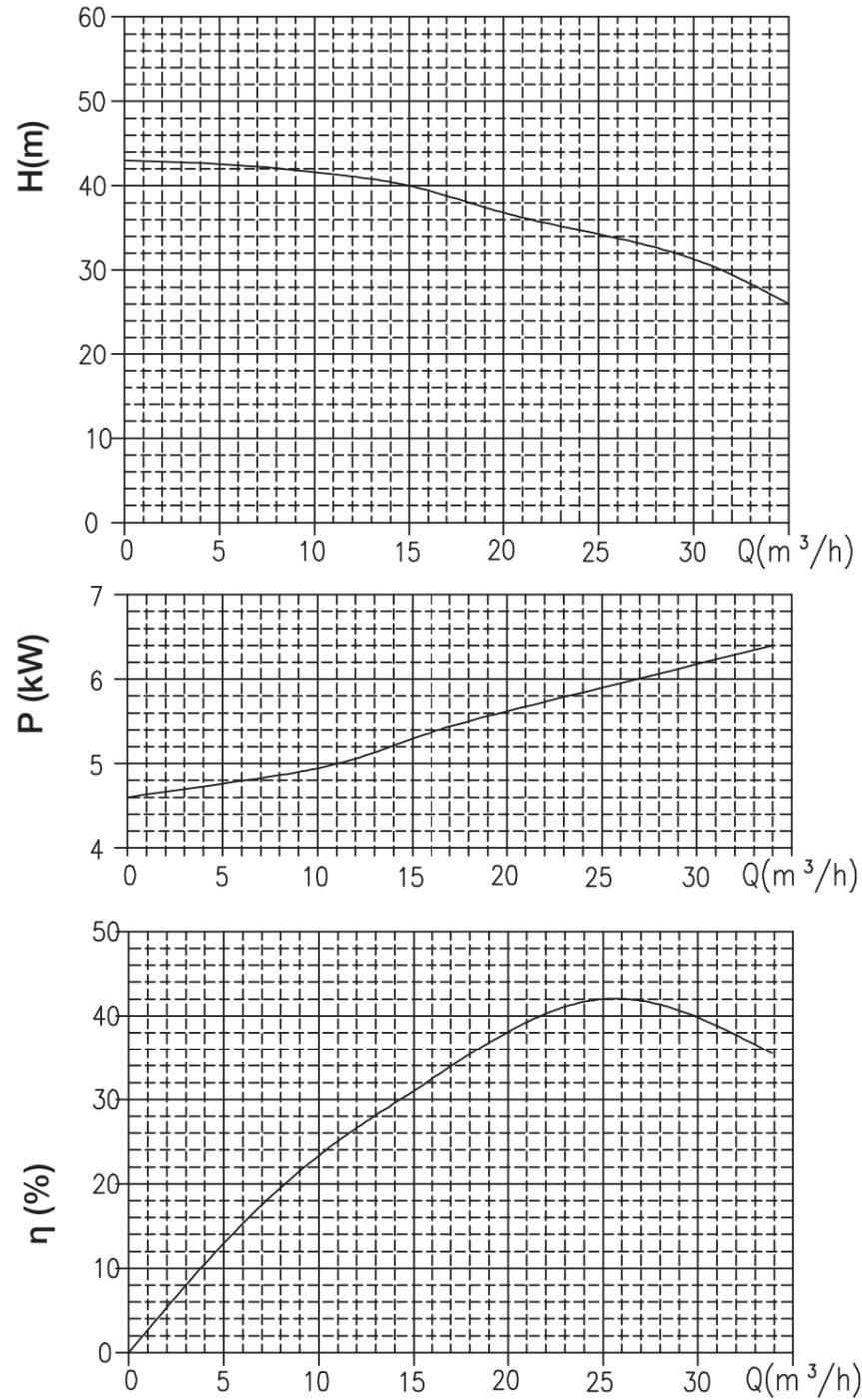
2900 r/min



# WF50 15-40/5.5

Performance curve

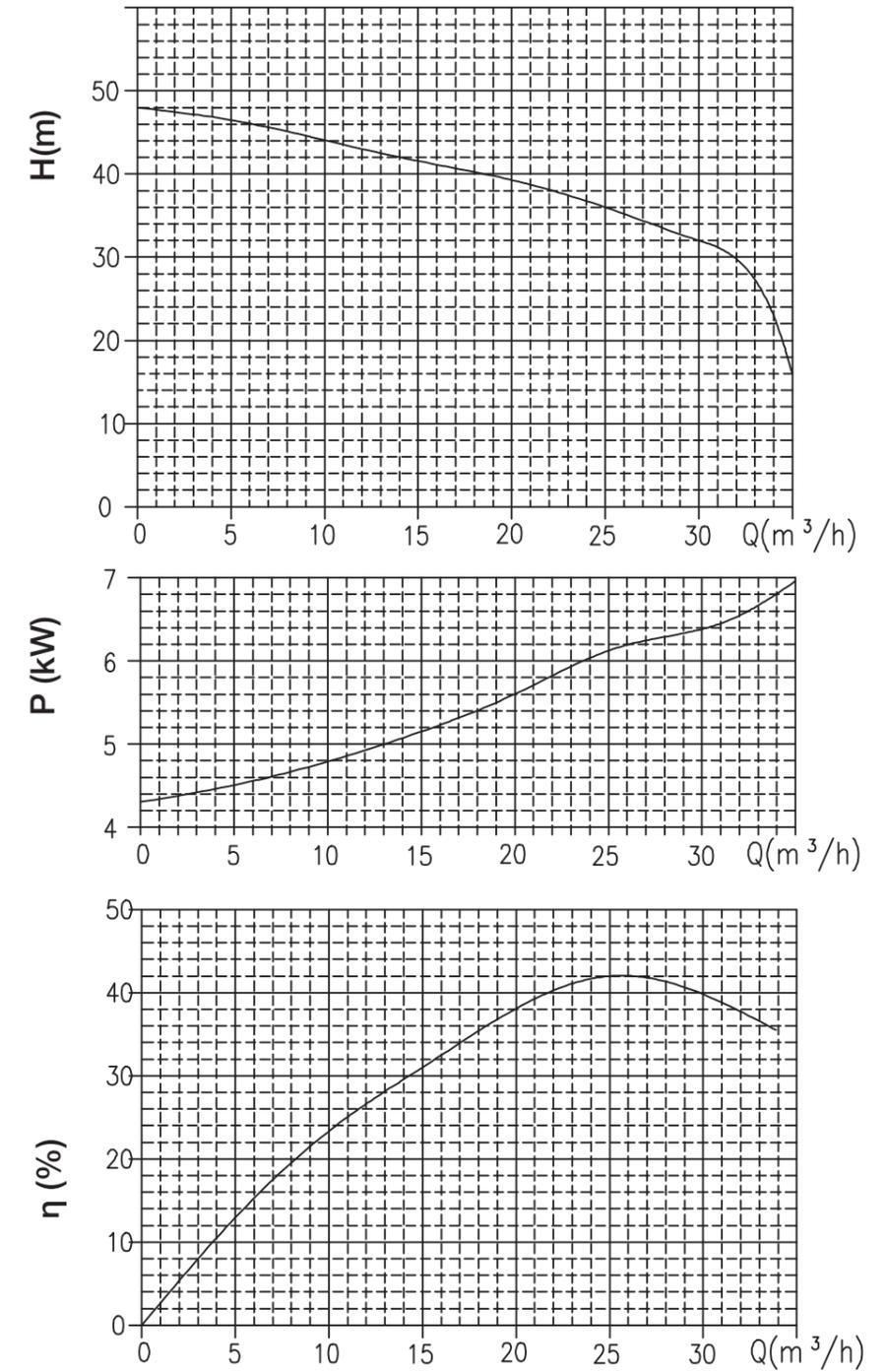
2900 r/min



# WF50 20-40/7.5

Performance curve

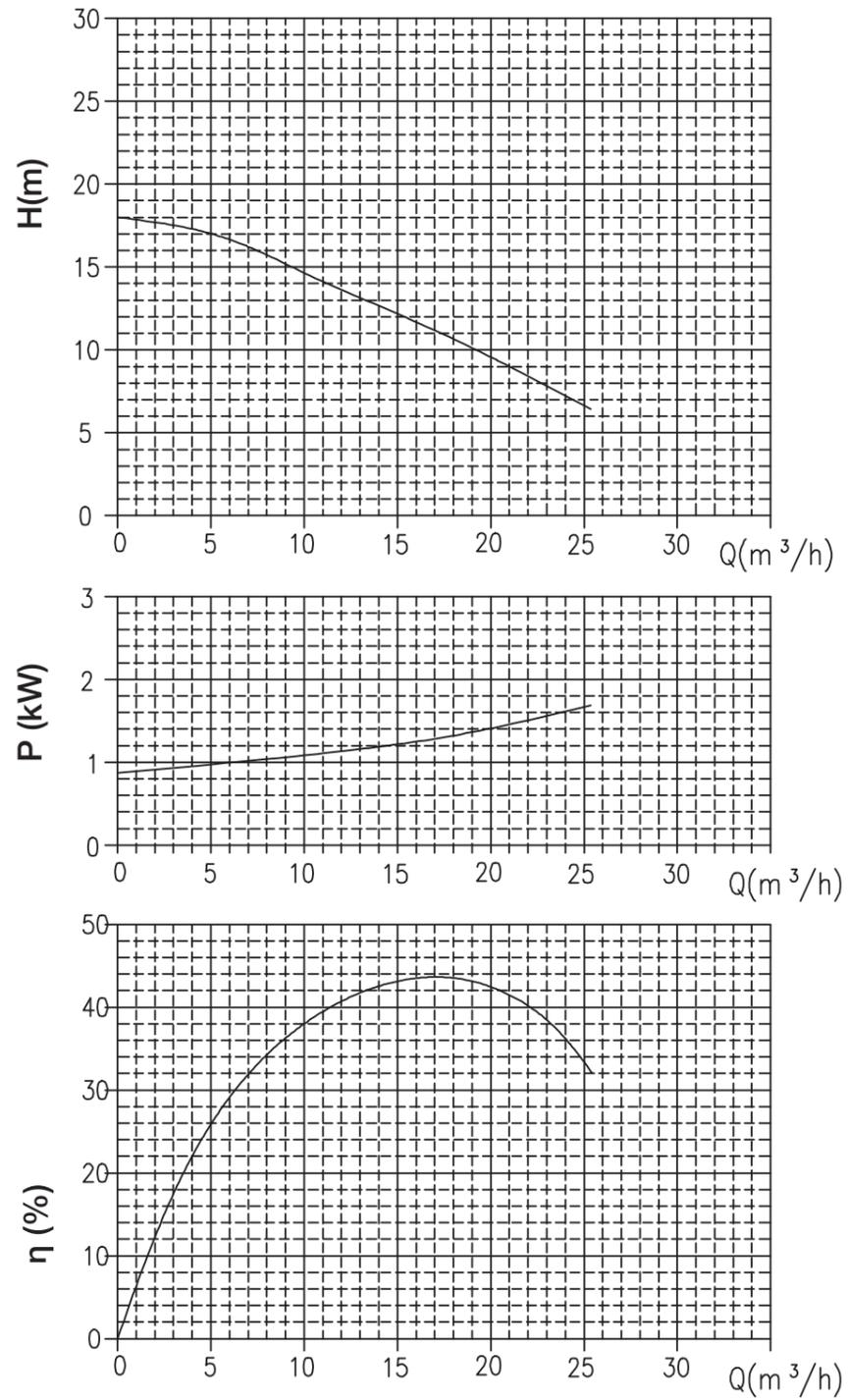
2900 r/min



# WF65 15-10/1.5

Performance curve

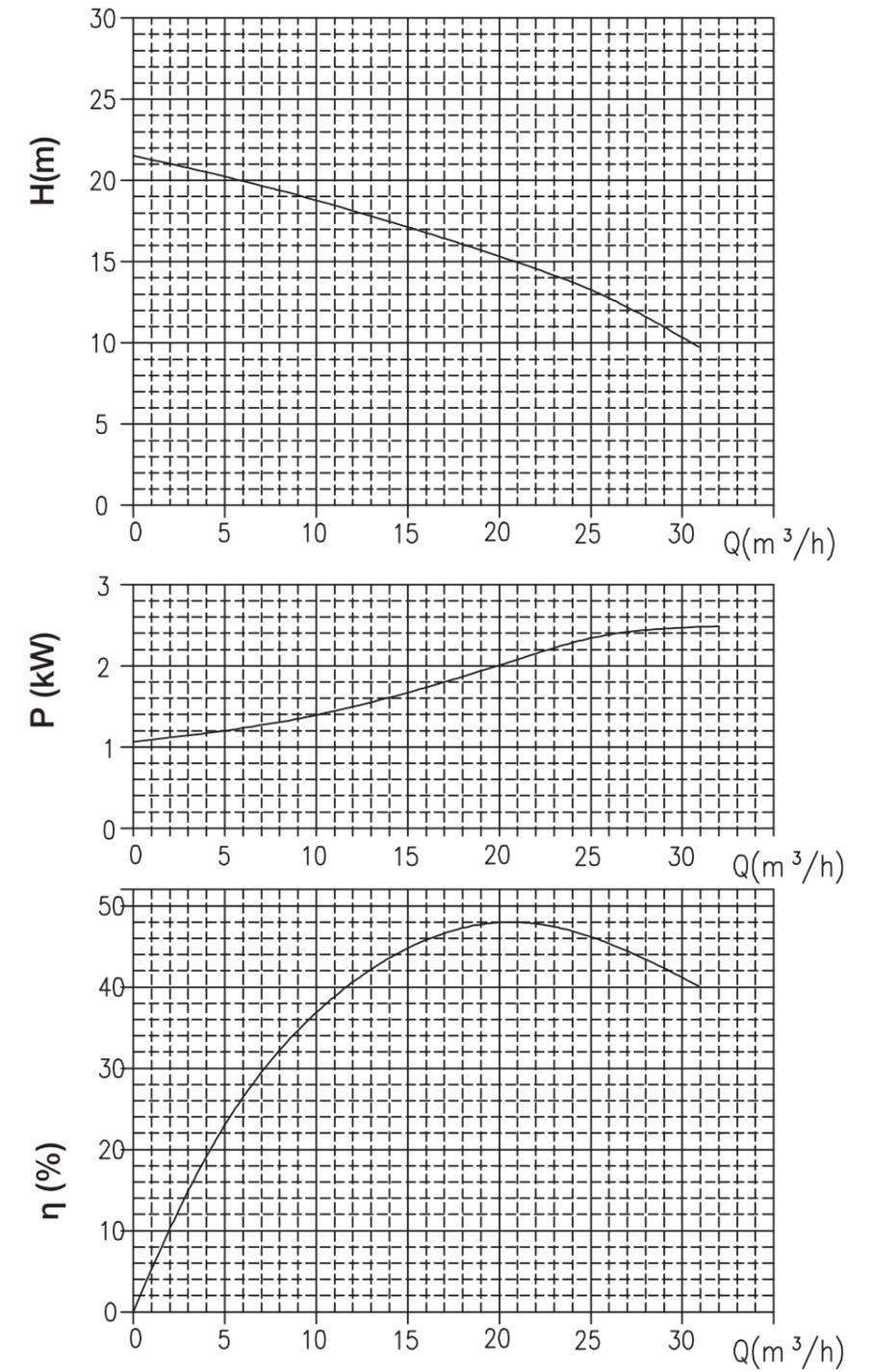
2900 r/min



# WF65 25-10/2.2

Performance curve

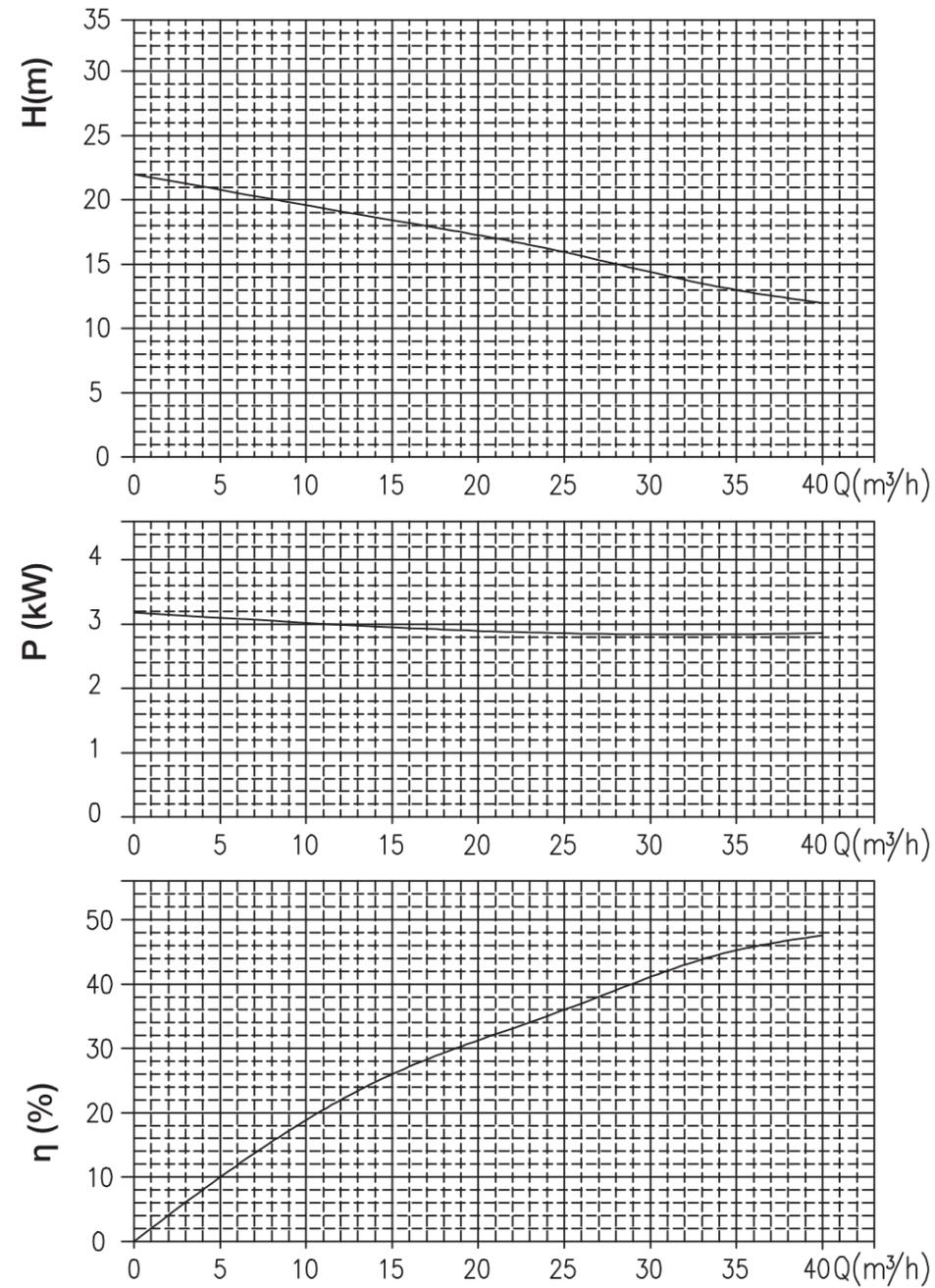
2900 r/min



# WF65 25-15/3

Performance curve

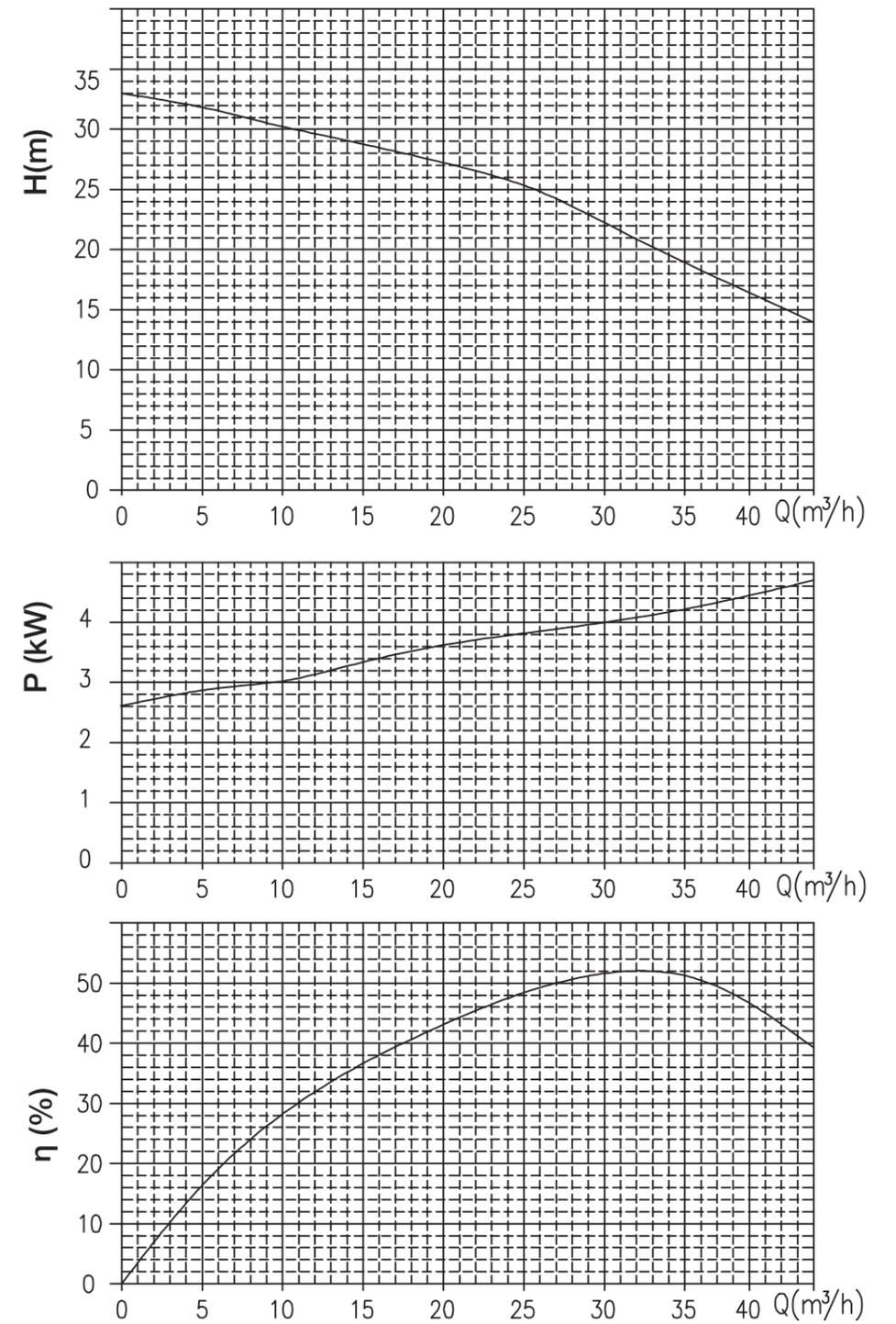
2900 r/min



# WF65 20-25/4

Performance curve

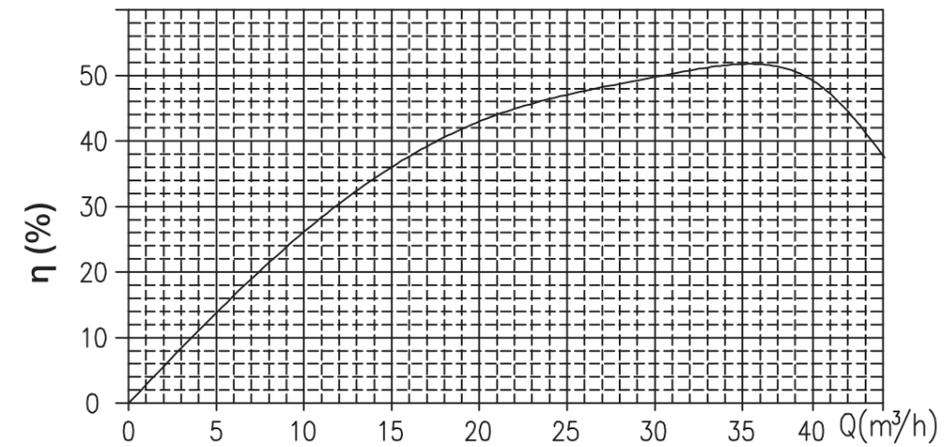
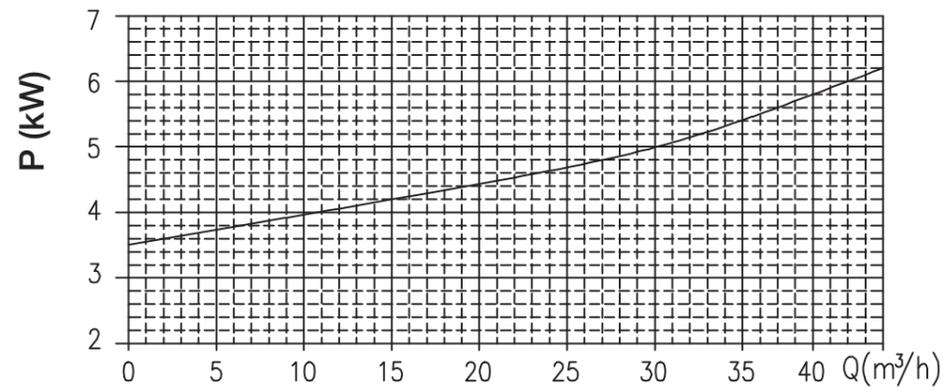
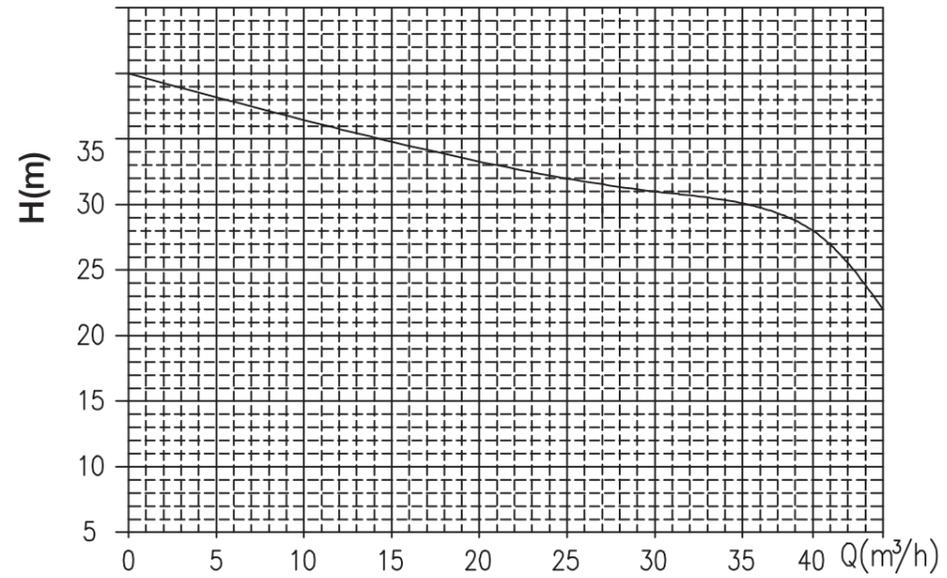
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# WF65 30-30/5.5

Performance curve

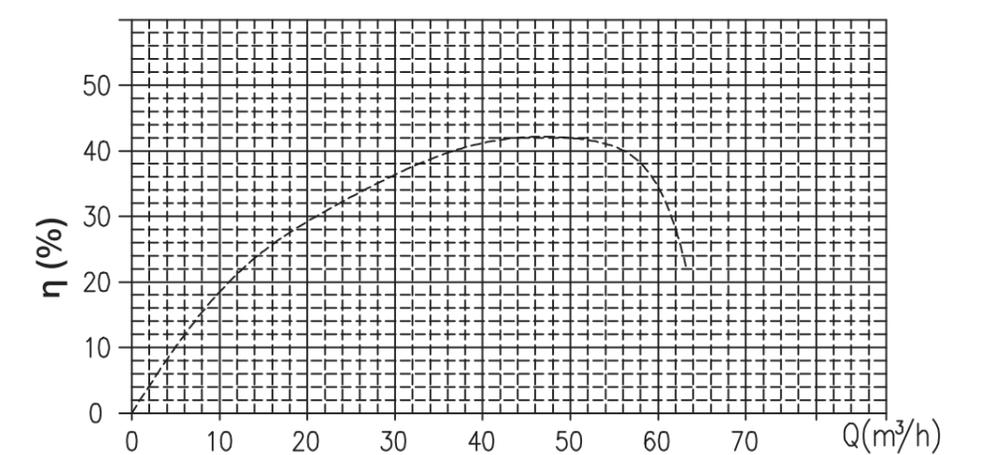
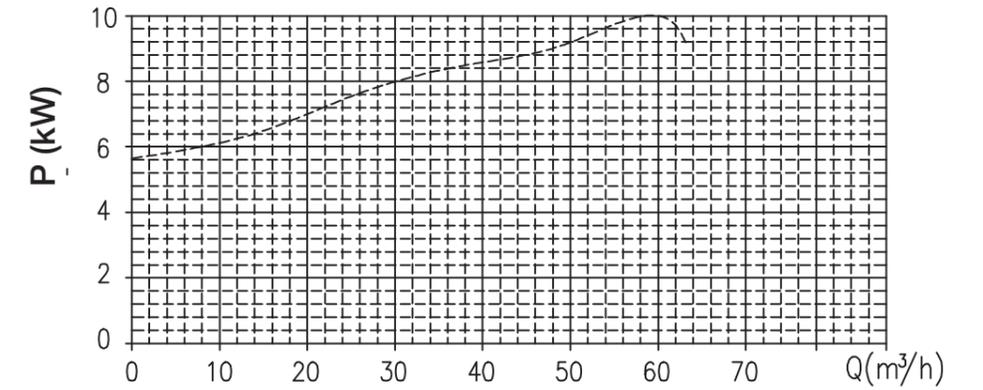
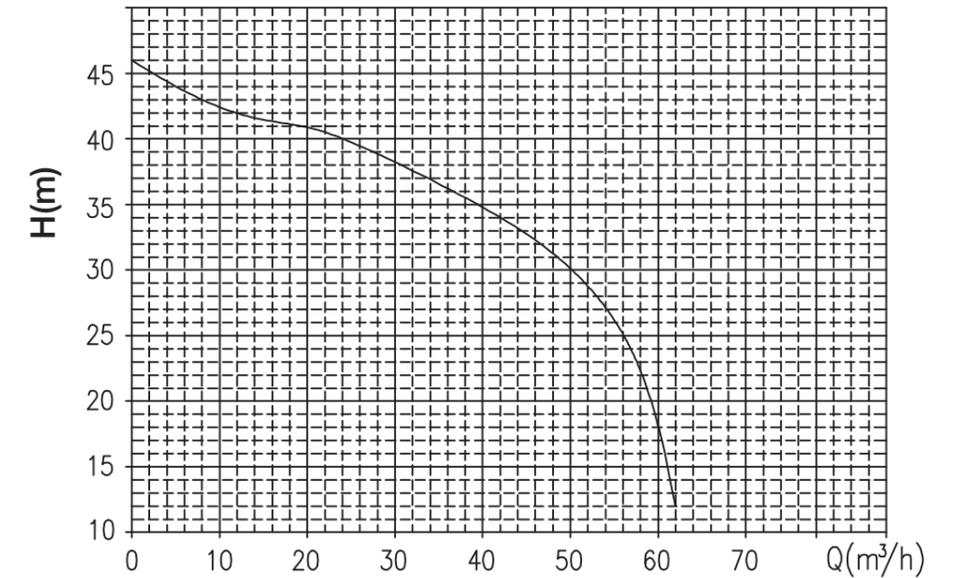
2900 r/min



# WF65 40-35/7.5

Performance curve

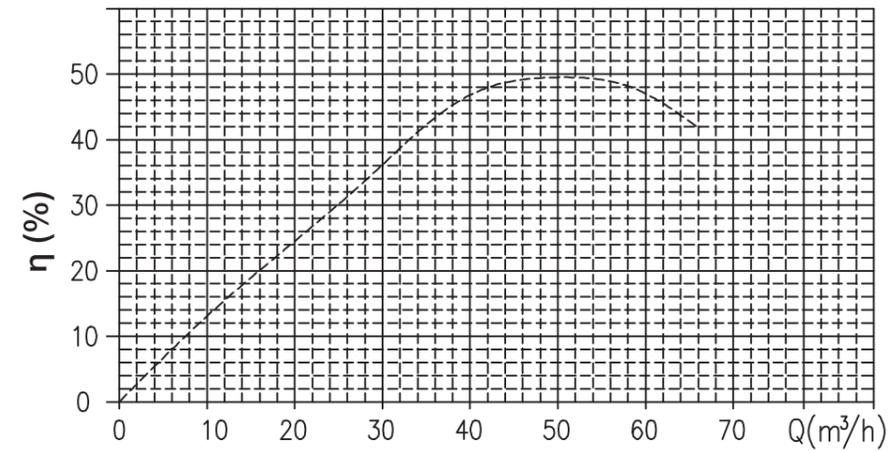
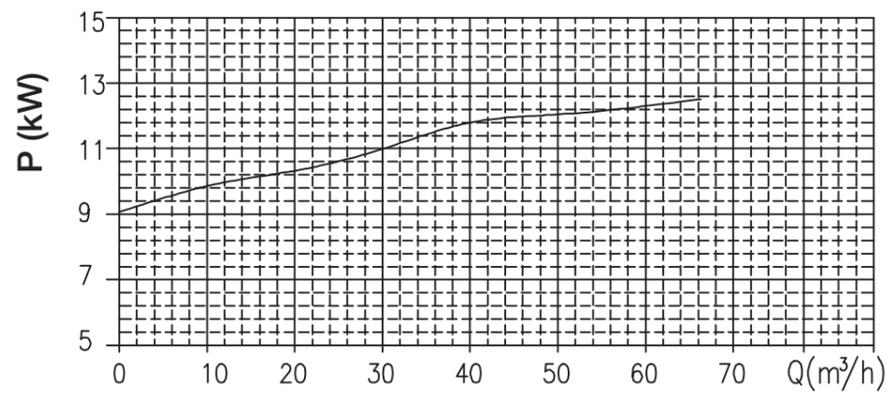
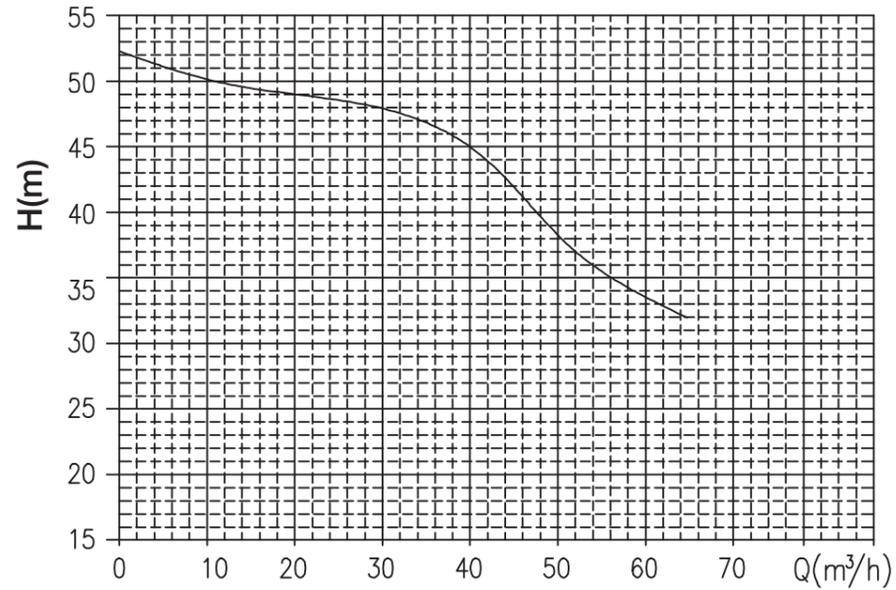
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# WF65 40-45/11

Performance curve

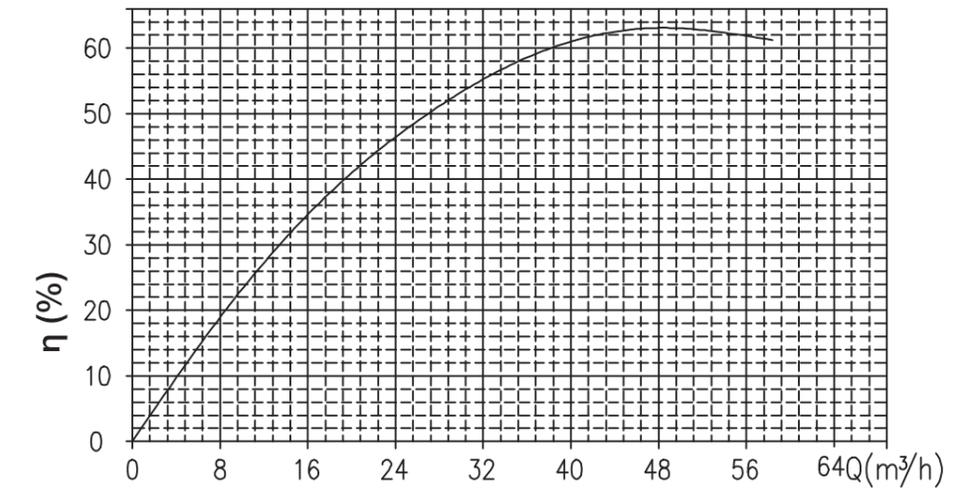
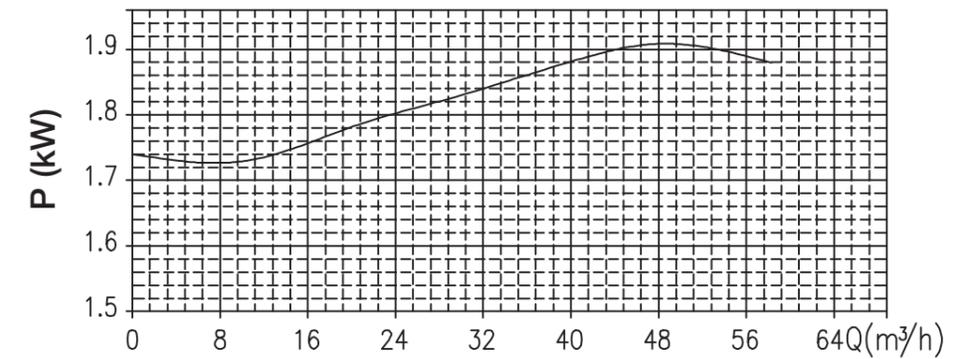
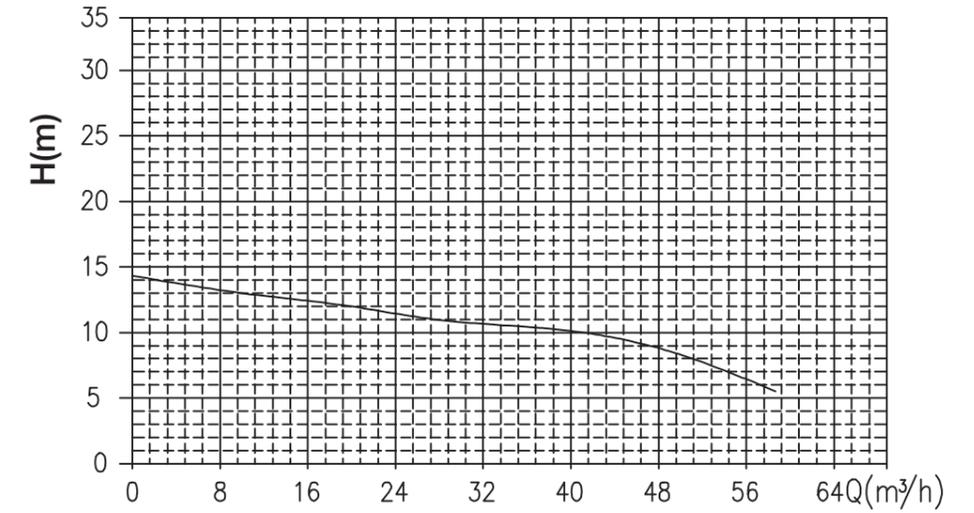
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# WF80 40-10/3

Performance curve

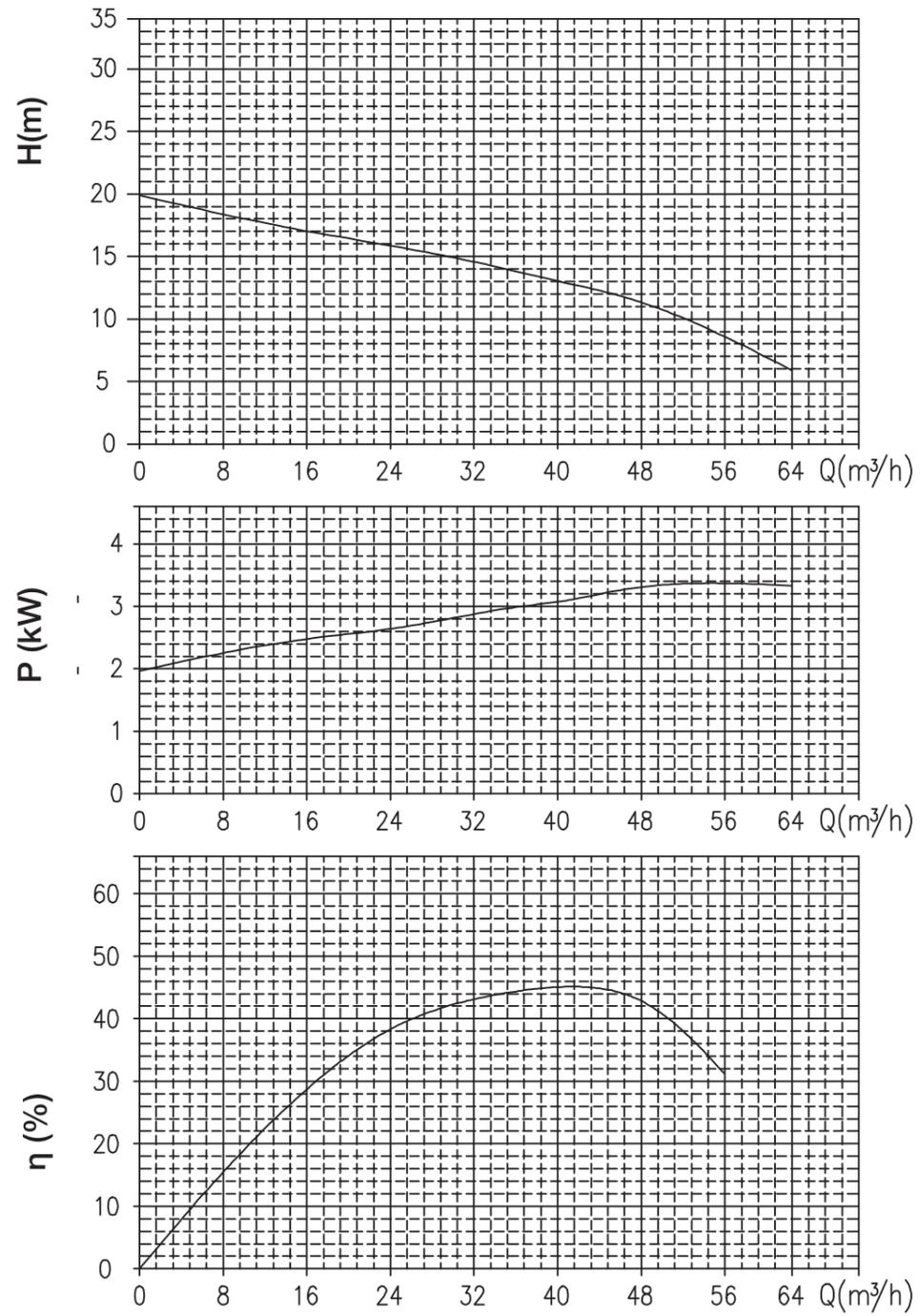
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# WF80 40-12/3

Performance curve

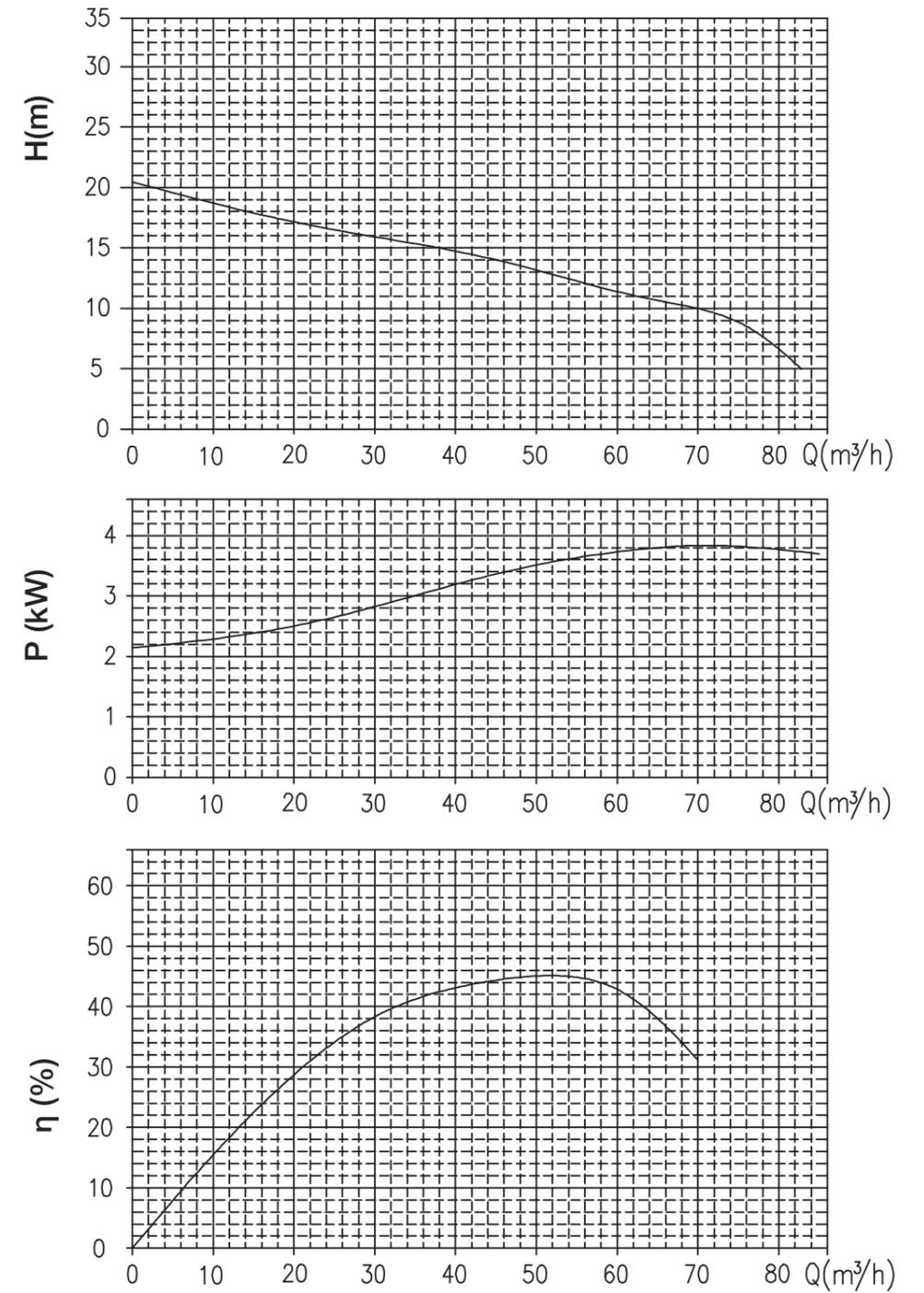
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# WF80 60-12/4

Performance curve

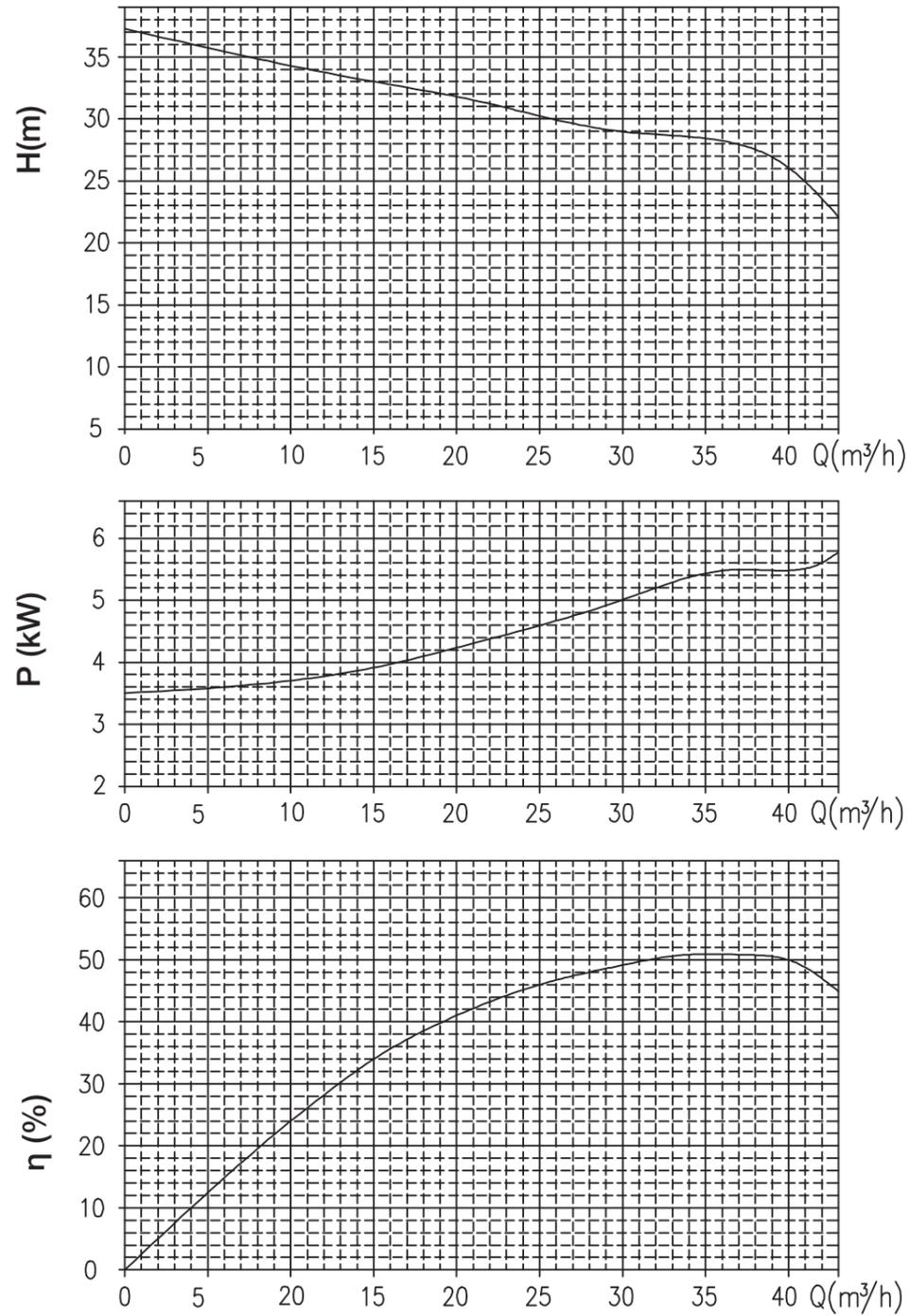
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# WF80 30-30/5.5

Performance curve

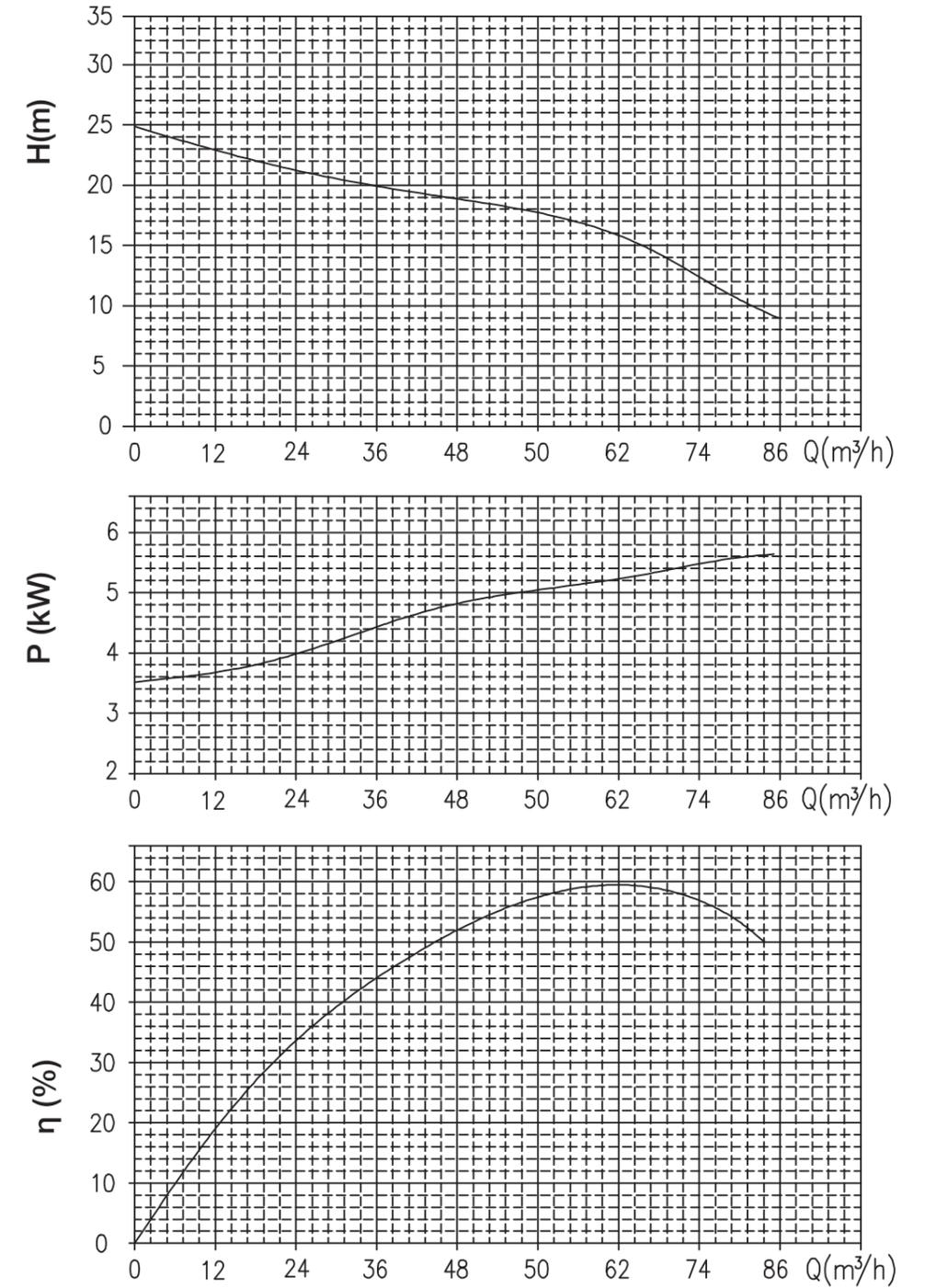
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# WF80 65-15/5.5

Performance curve

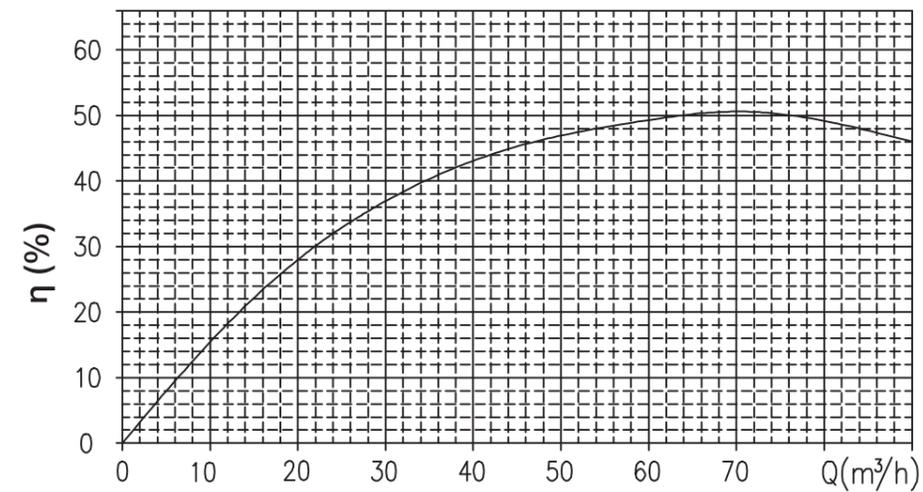
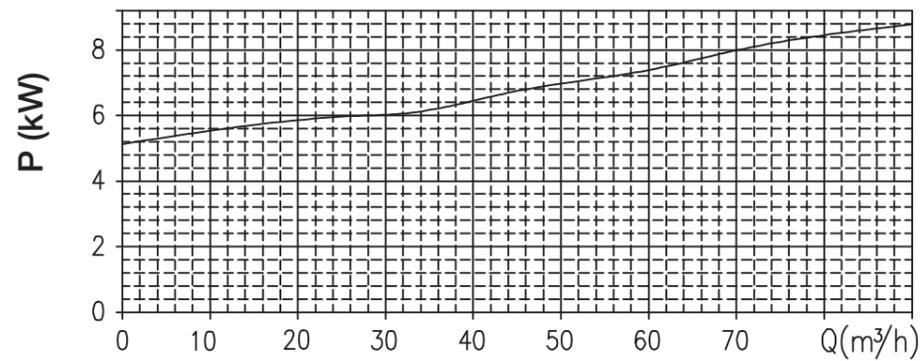
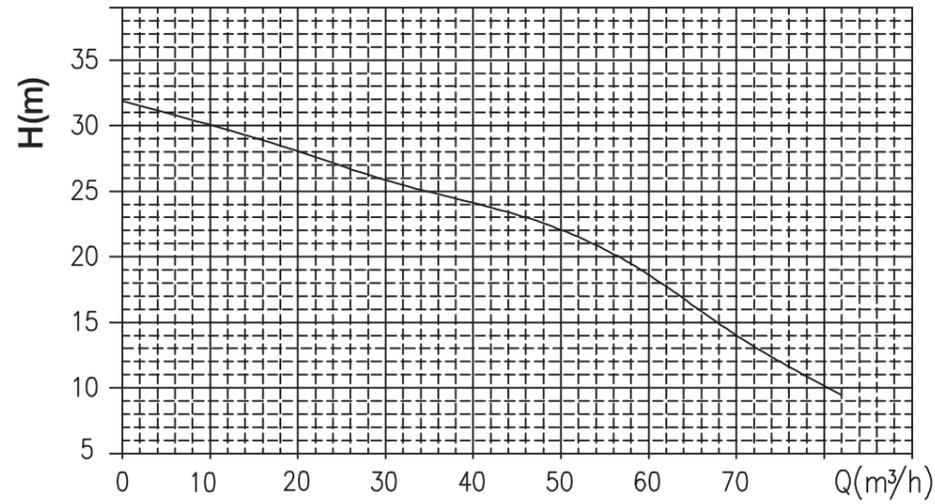
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# WF80 70-15/7.5

Performance curve

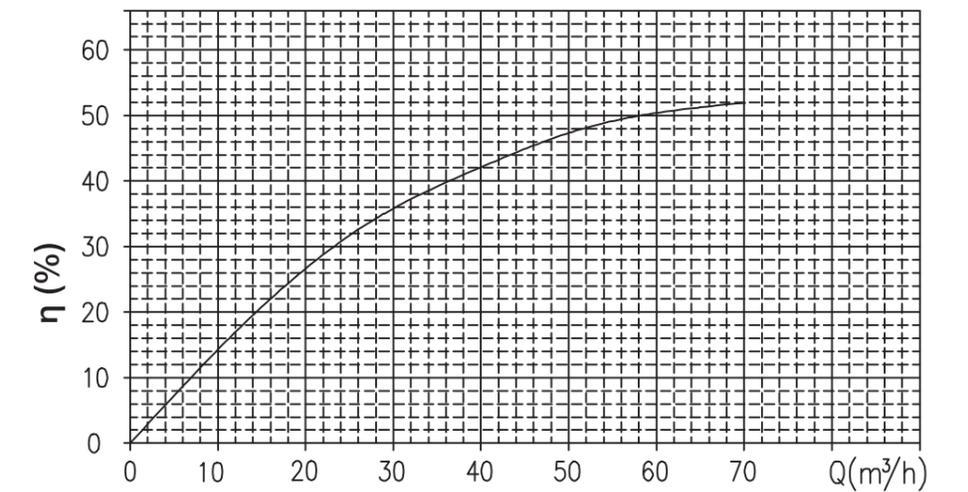
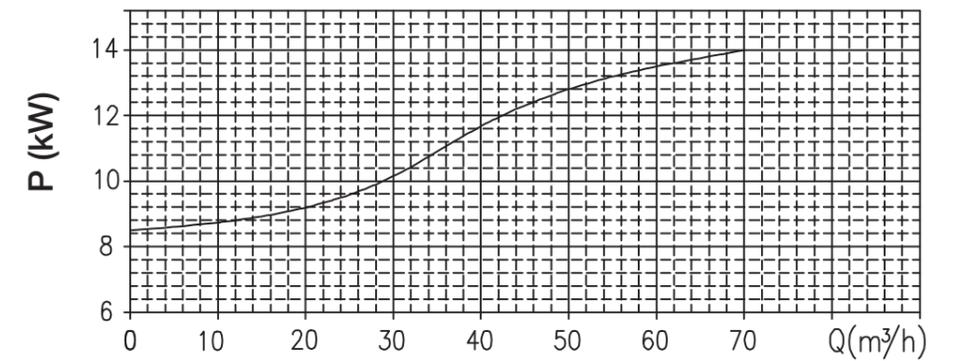
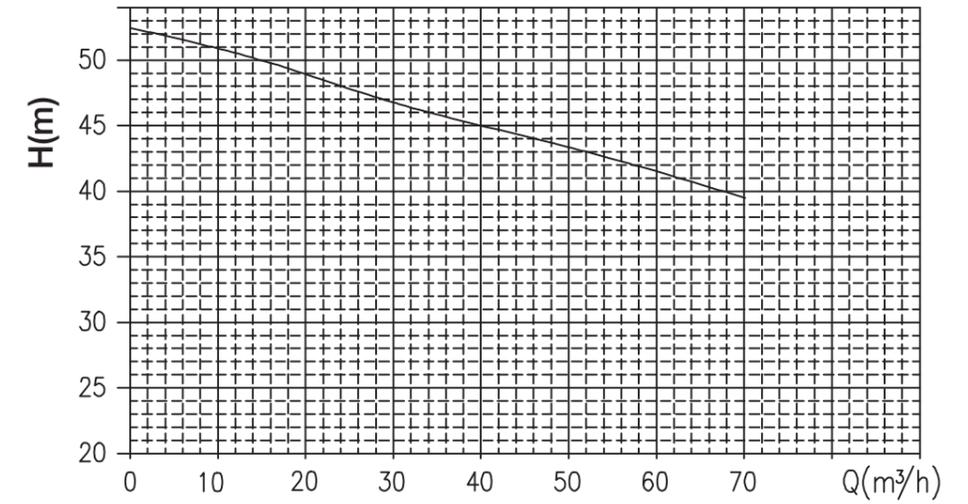
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# WF80 40-45/11

Performance curve

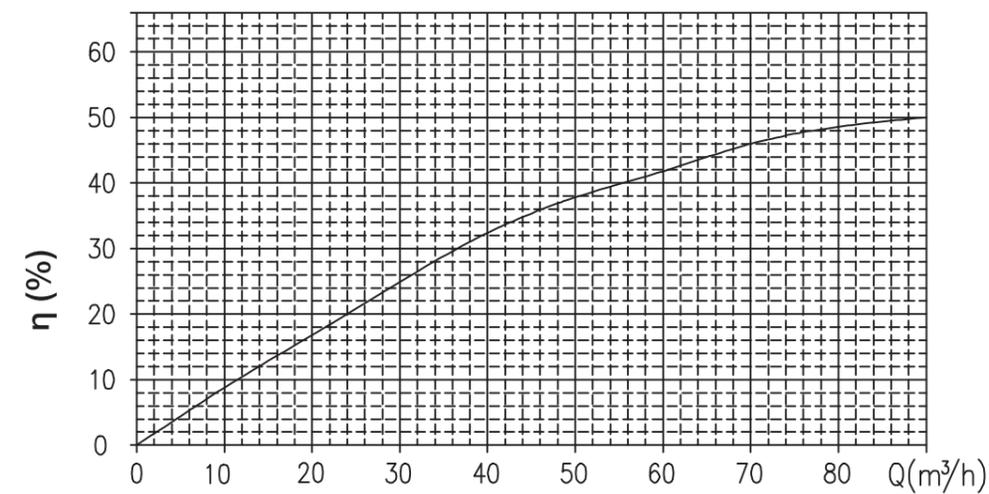
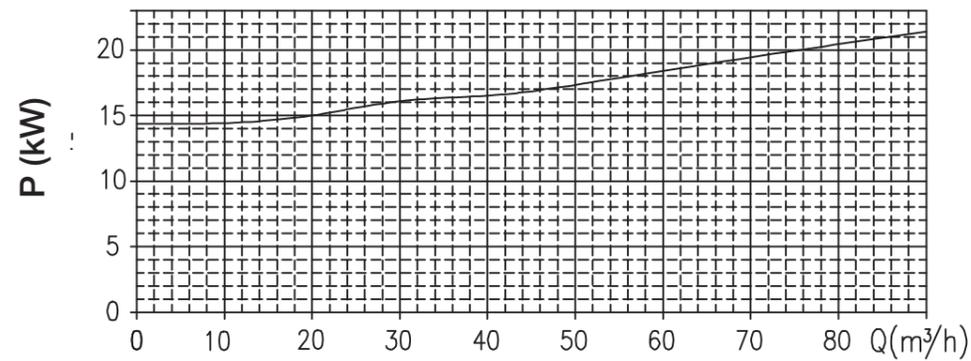
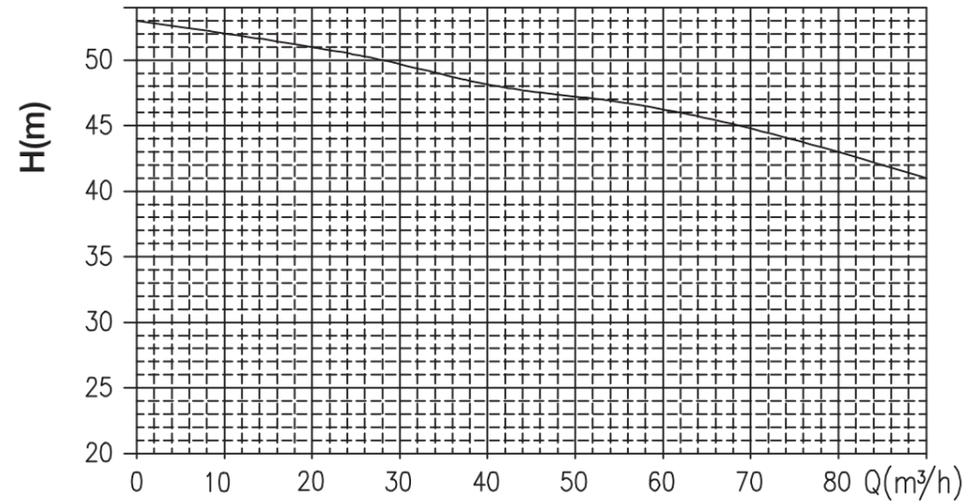
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# WF80 50-45/15

Performance curve

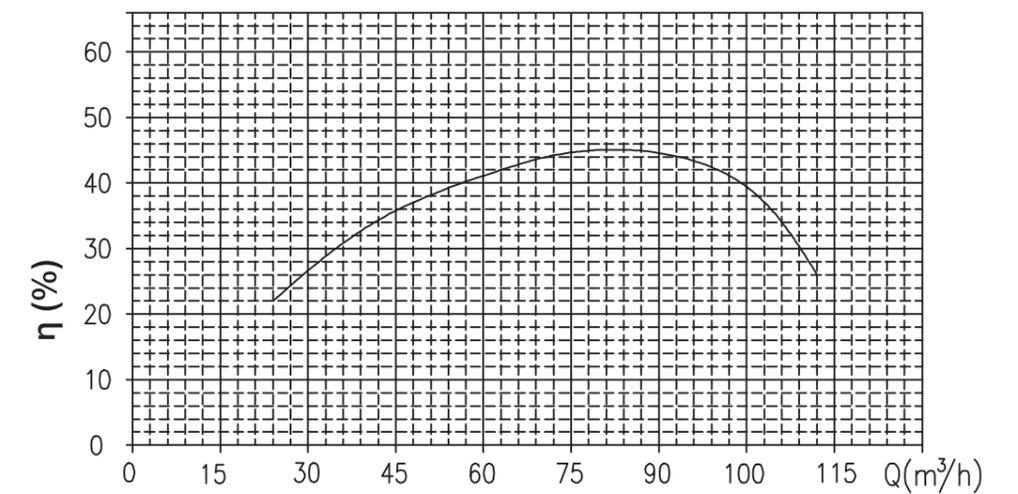
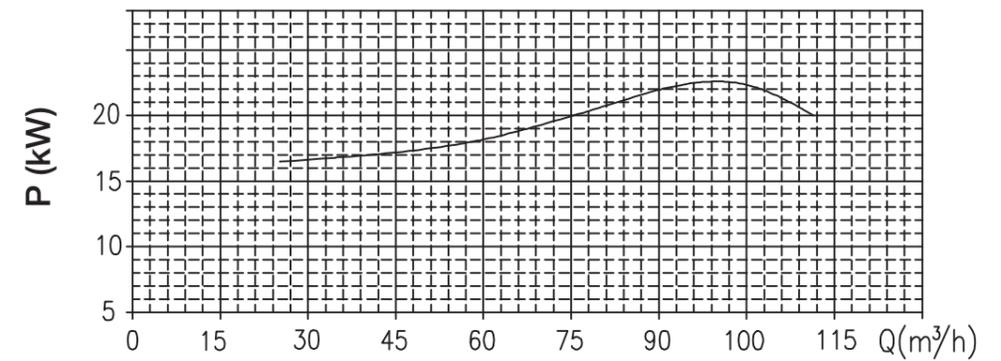
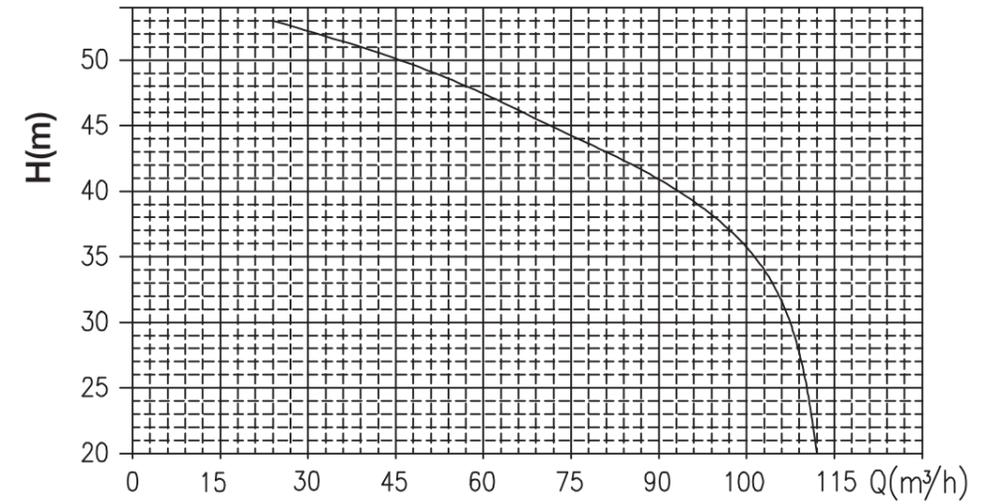
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# WF80 90-40/22

Performance curve

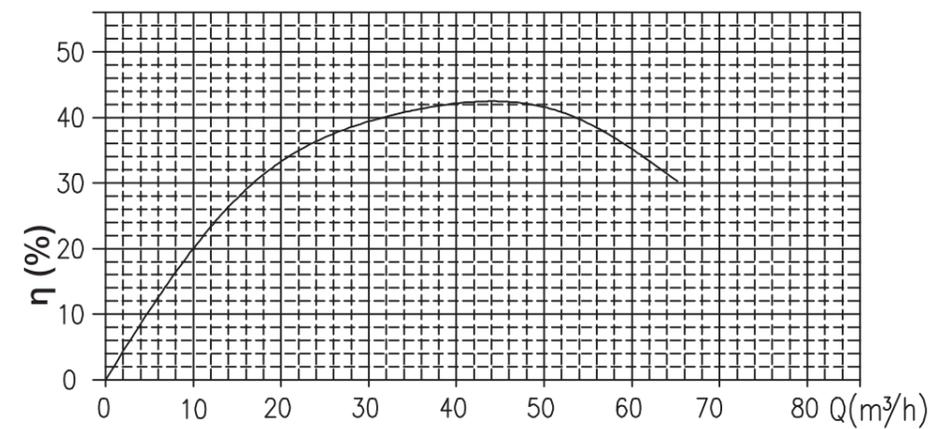
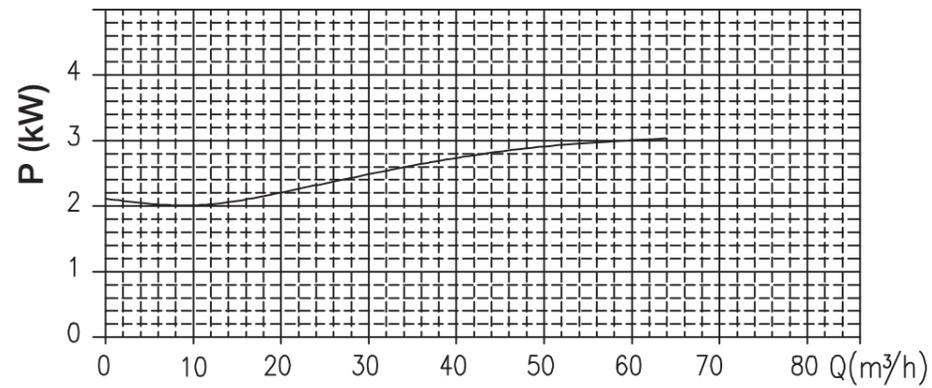
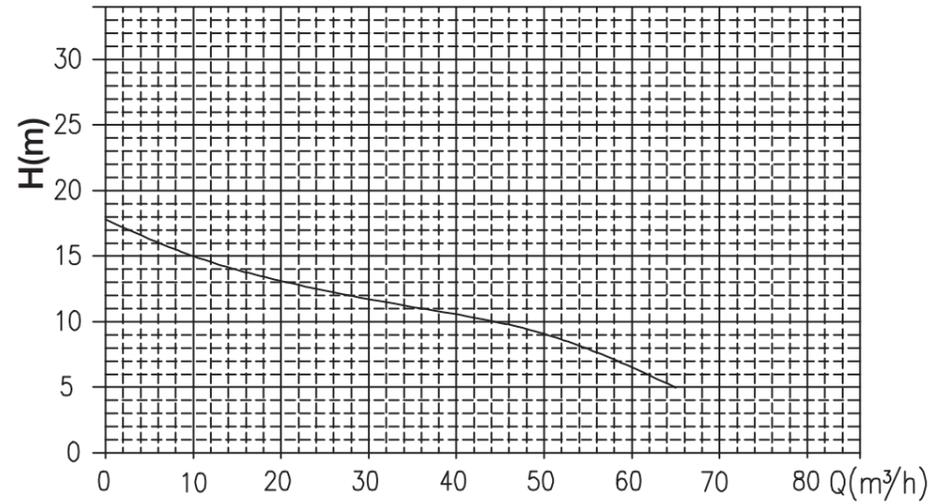
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# WF100 50-10/2.2

Performance curve

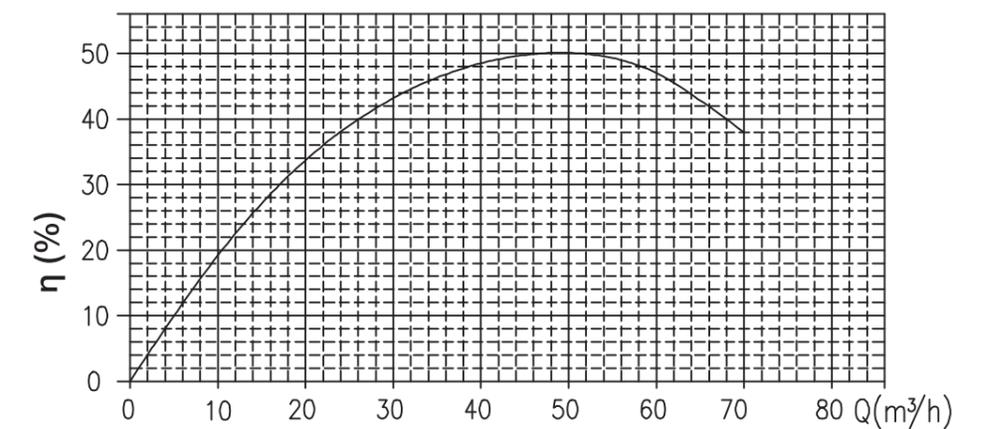
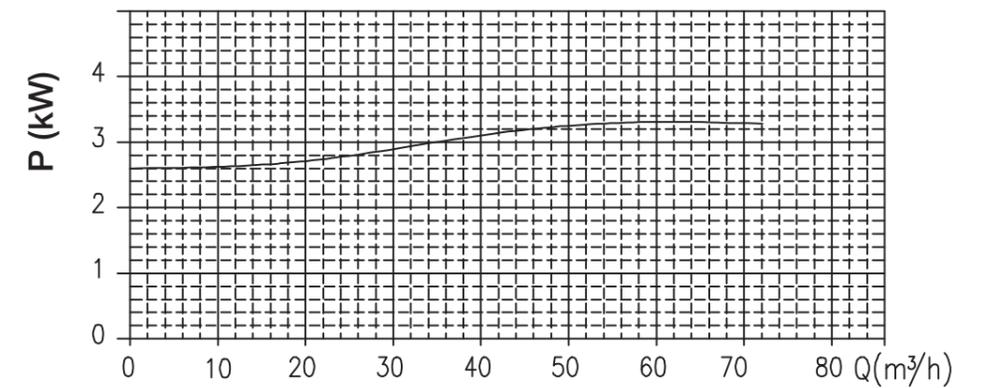
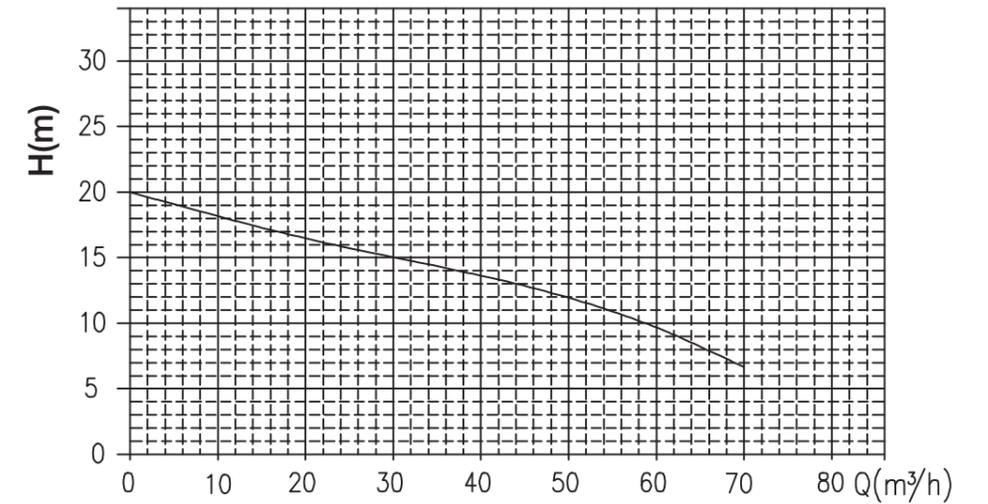
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# WF100 60-10/3

Performance curve

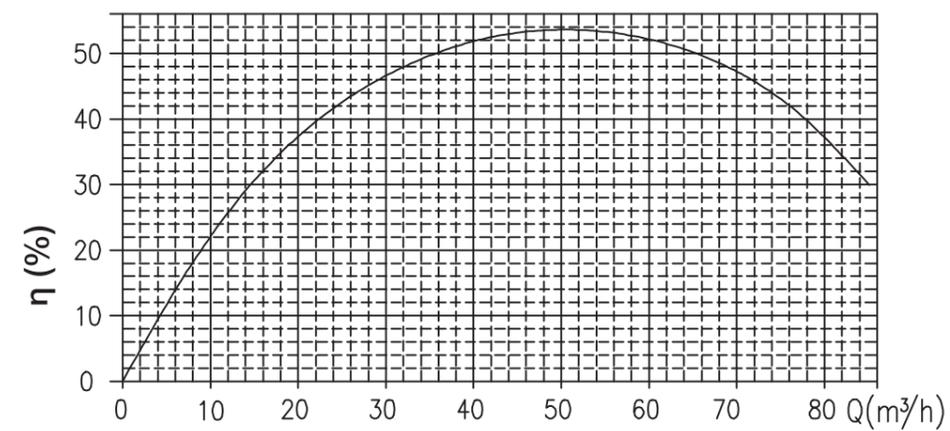
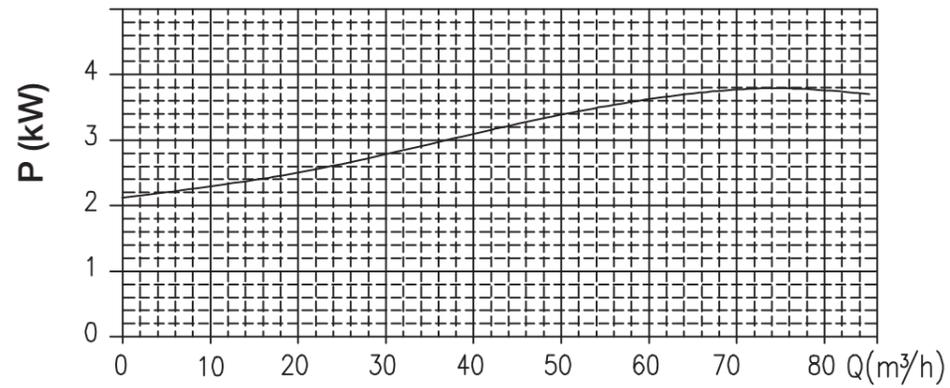
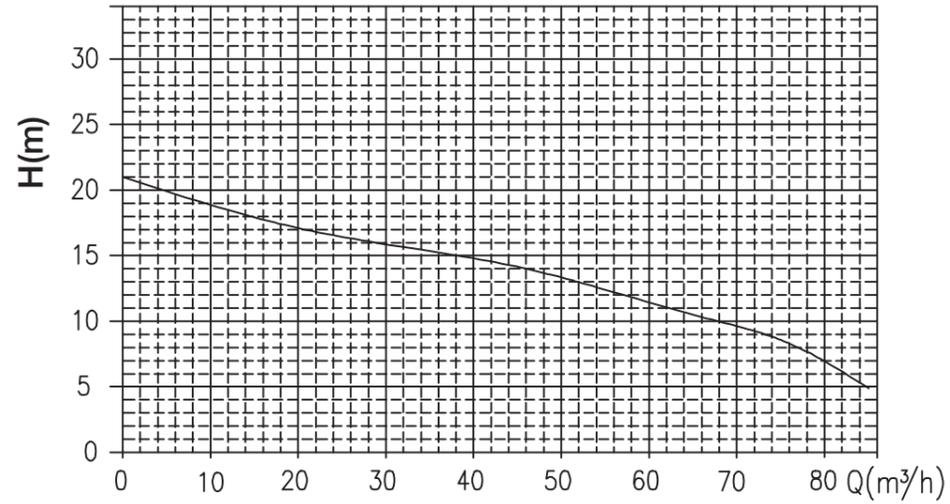
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# WF100 70-10/4

Performance curve

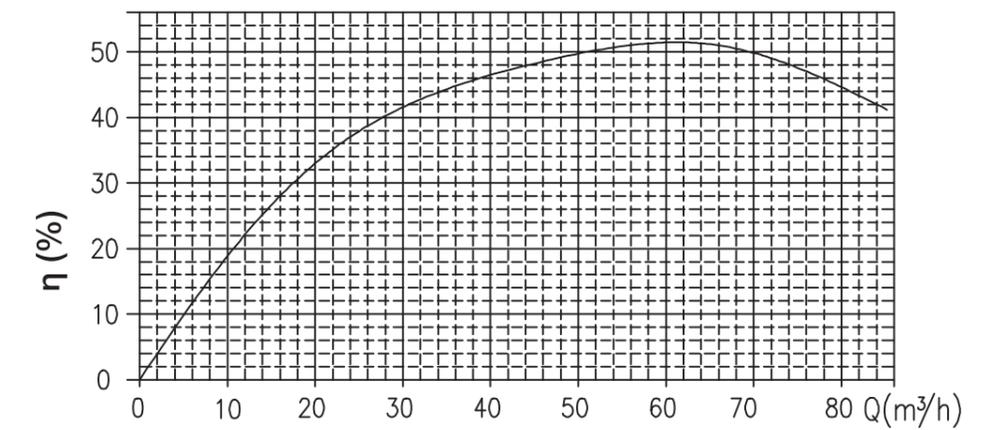
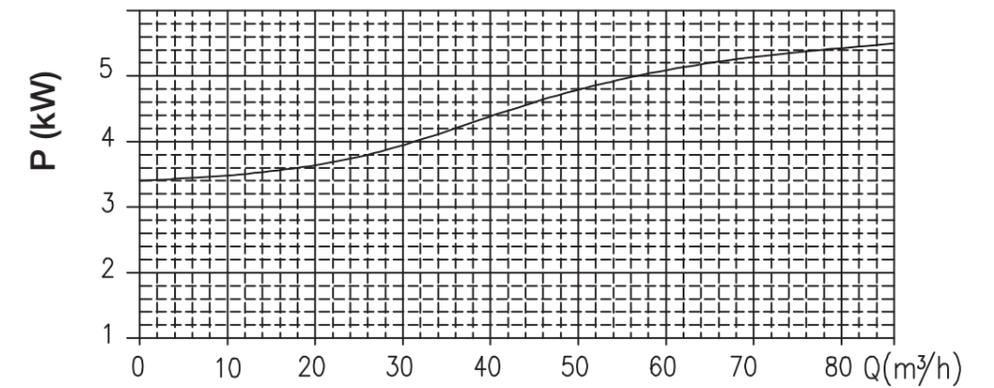
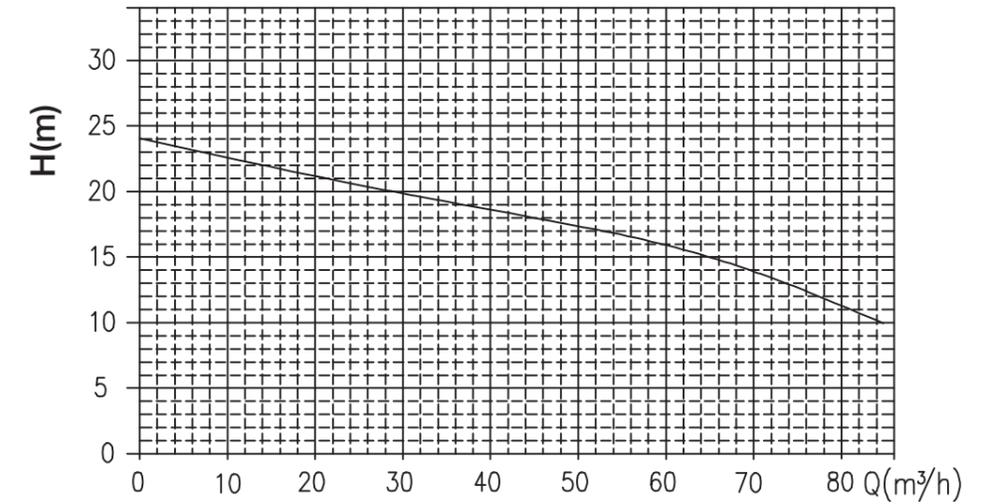
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# WF100 65-15/5.5

Performance curve

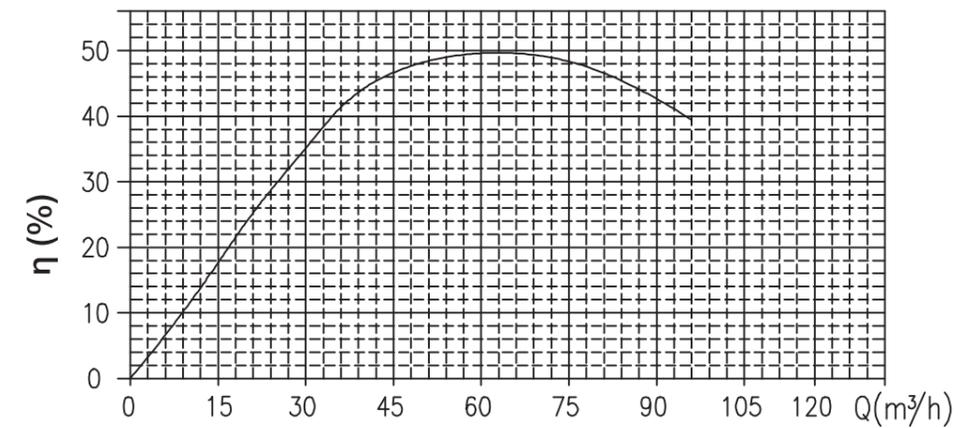
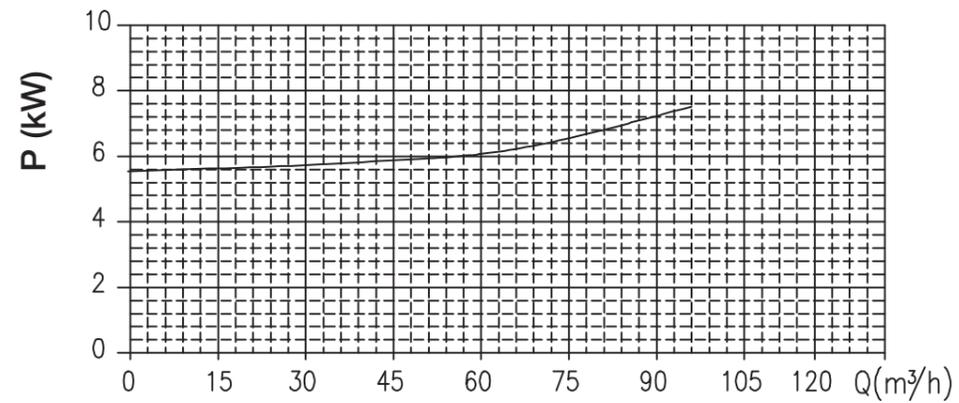
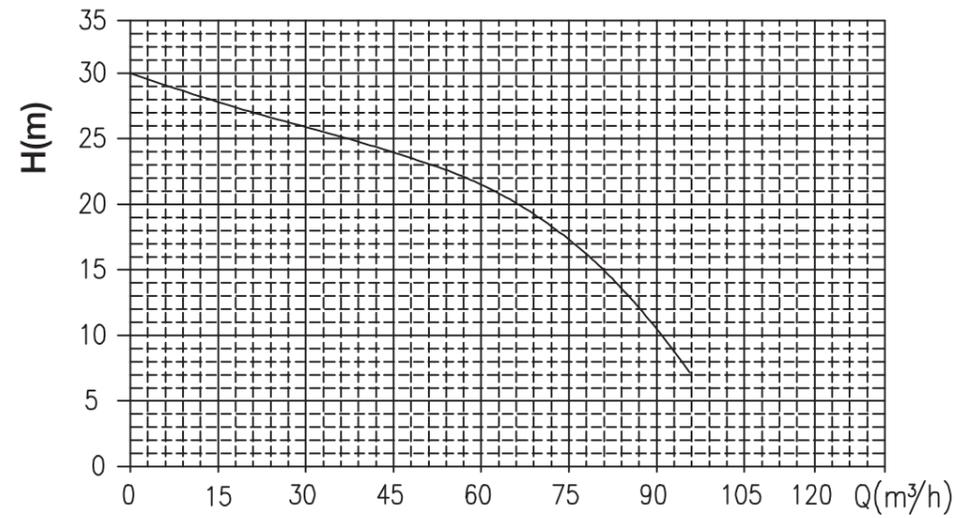
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# WF100 80-15/7.5

Performance curve

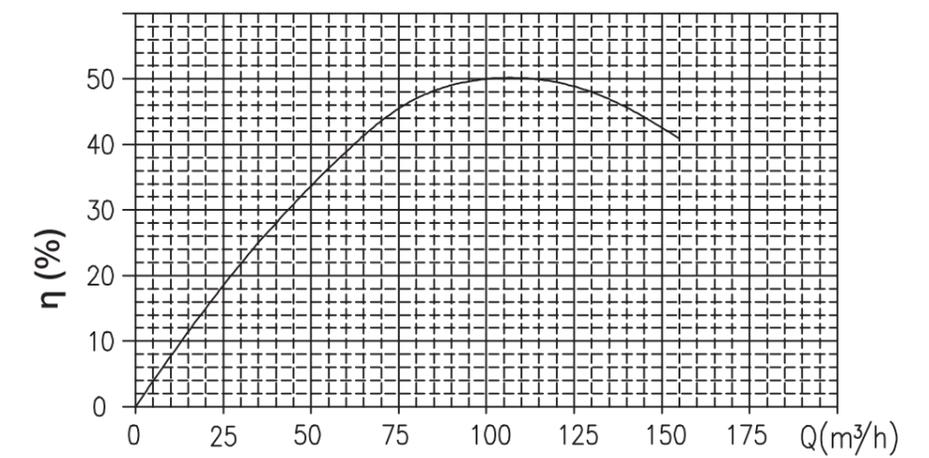
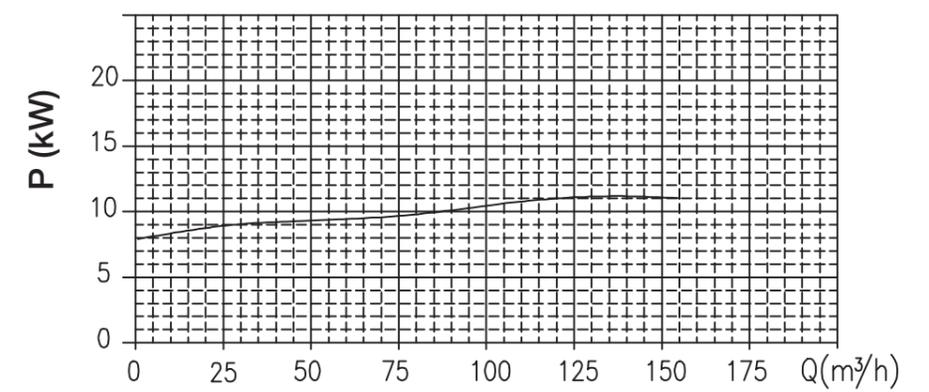
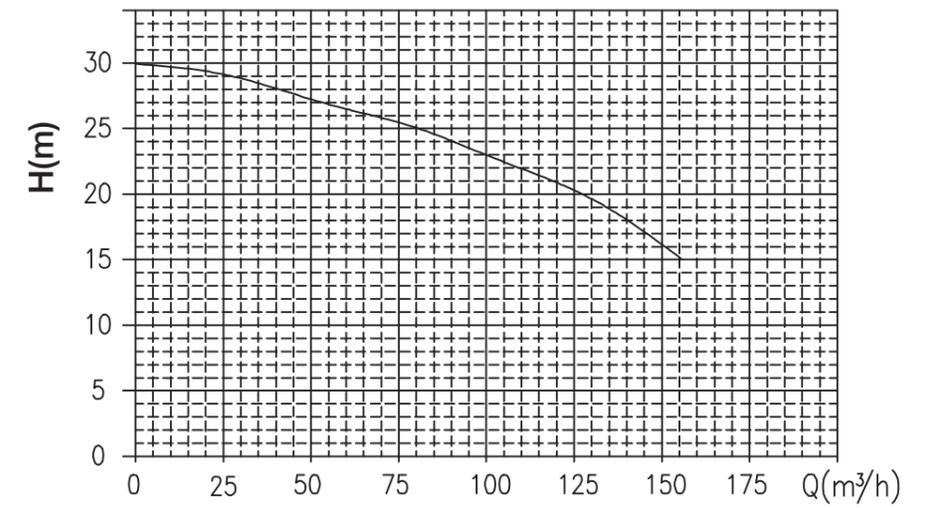
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# WF100 80-25/11

Performance curve

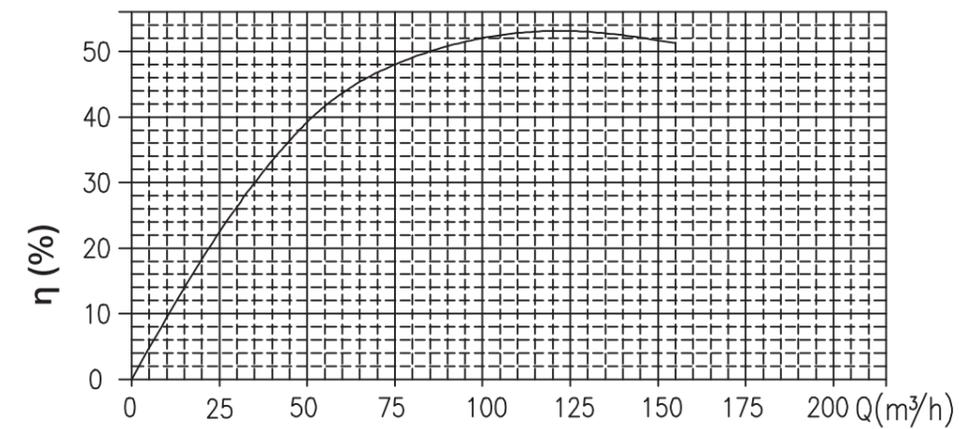
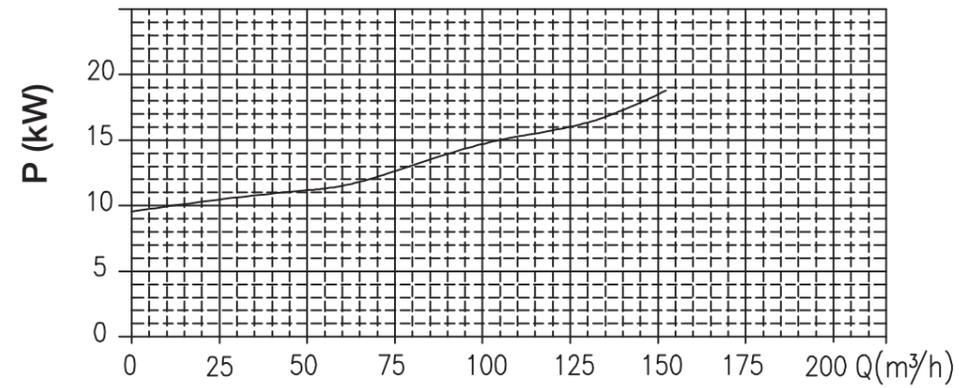
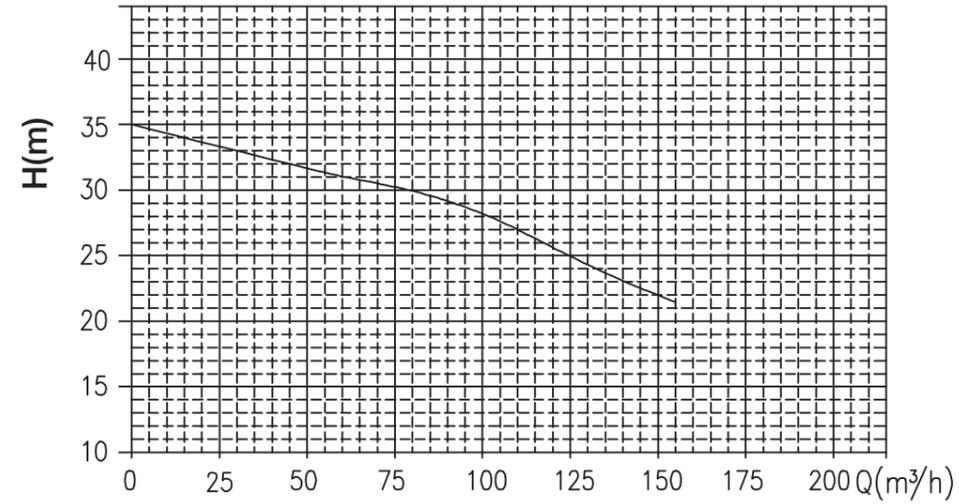
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# WF100 80-30/15

Performance curve

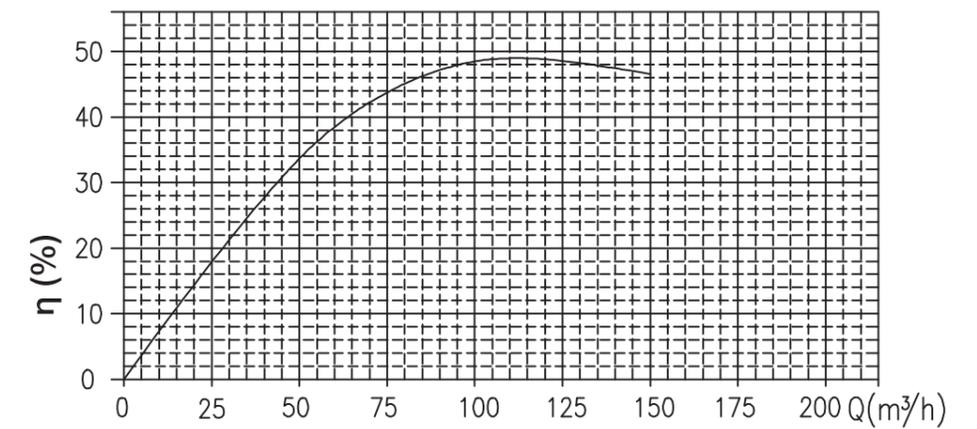
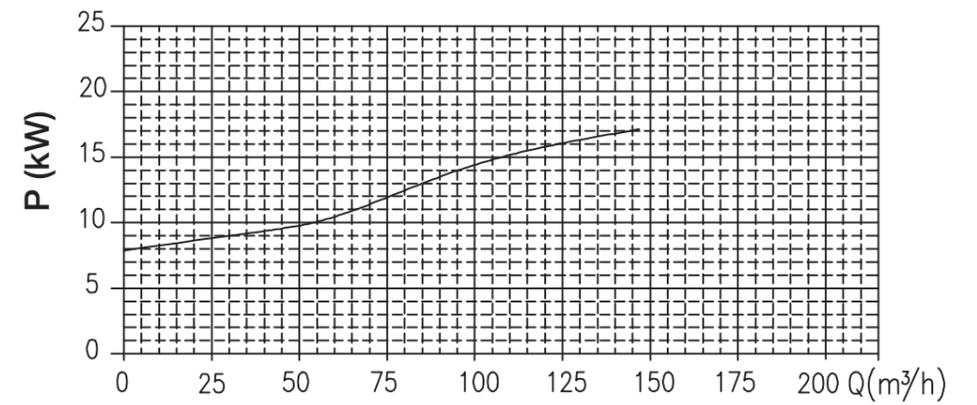
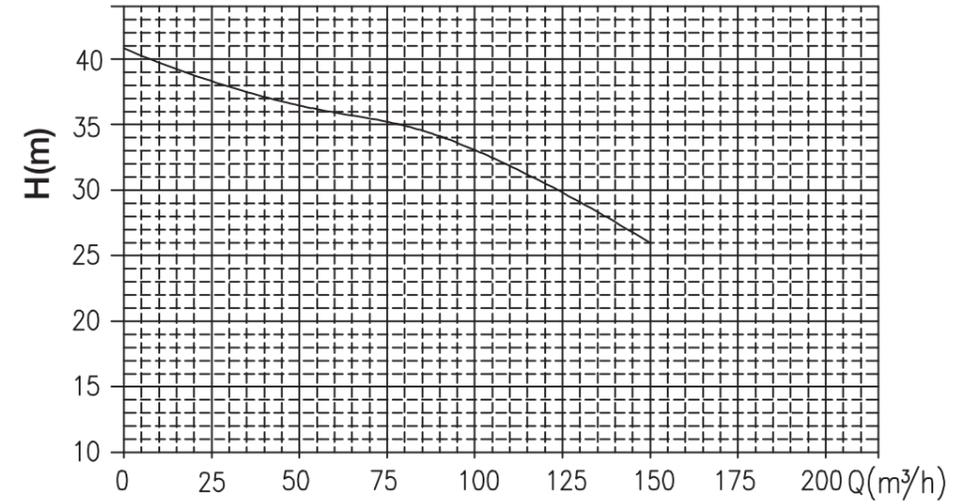
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# WF100 80-35/18.5

Performance curve

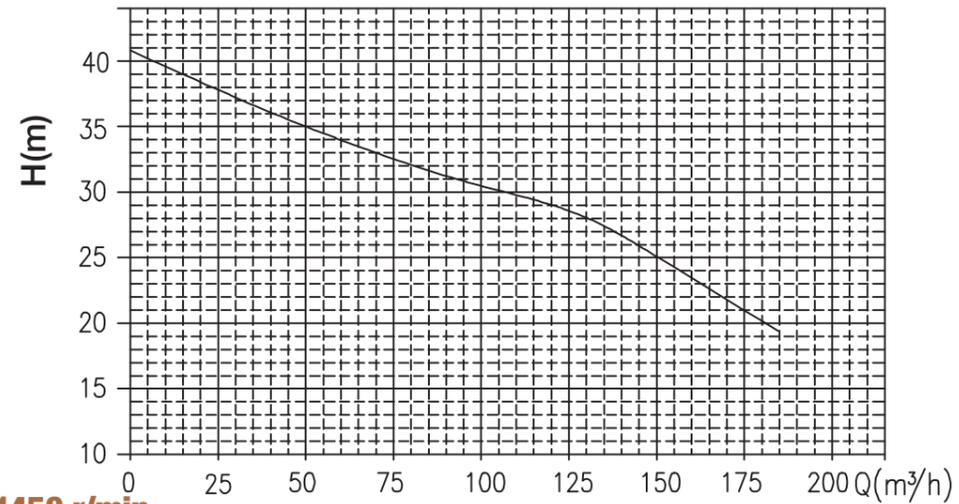
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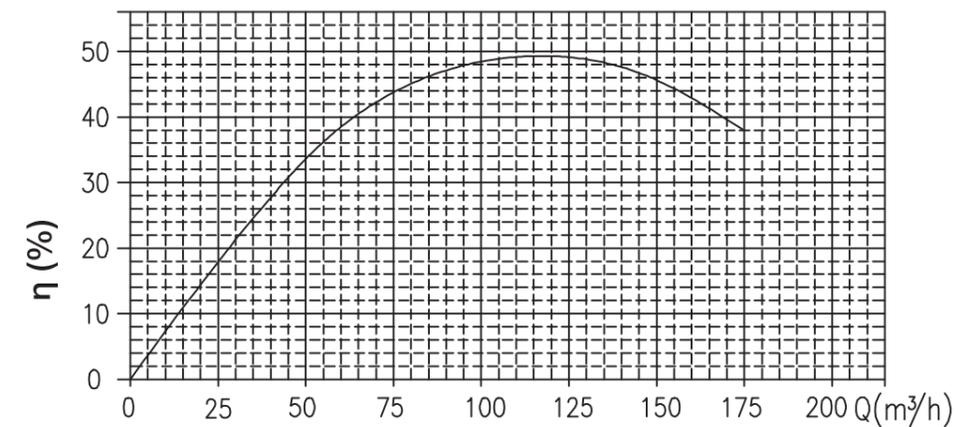
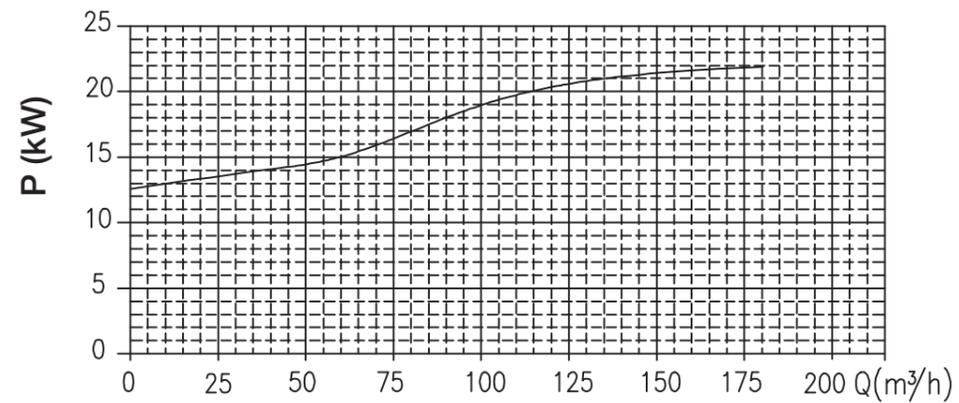
# WF100 100-30/22

Performance curve

1450 r/min



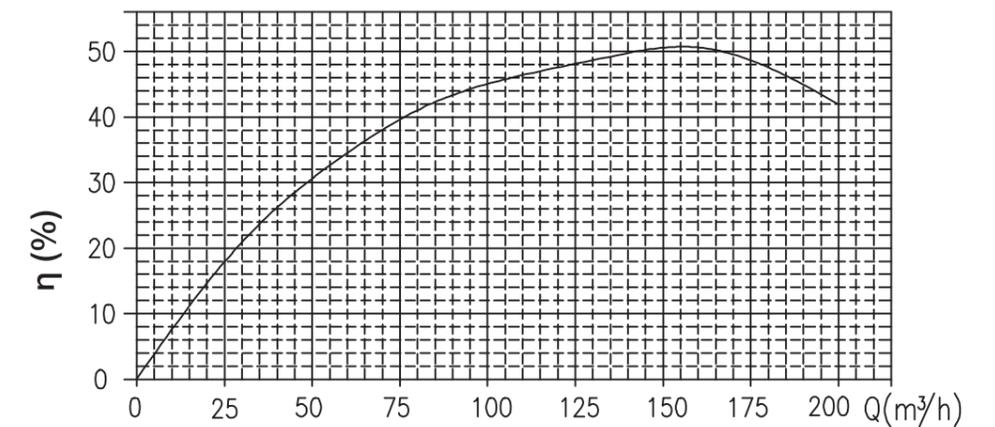
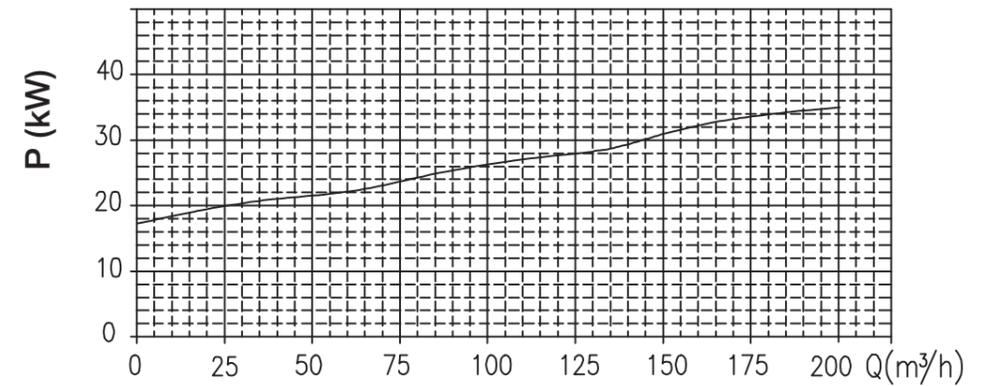
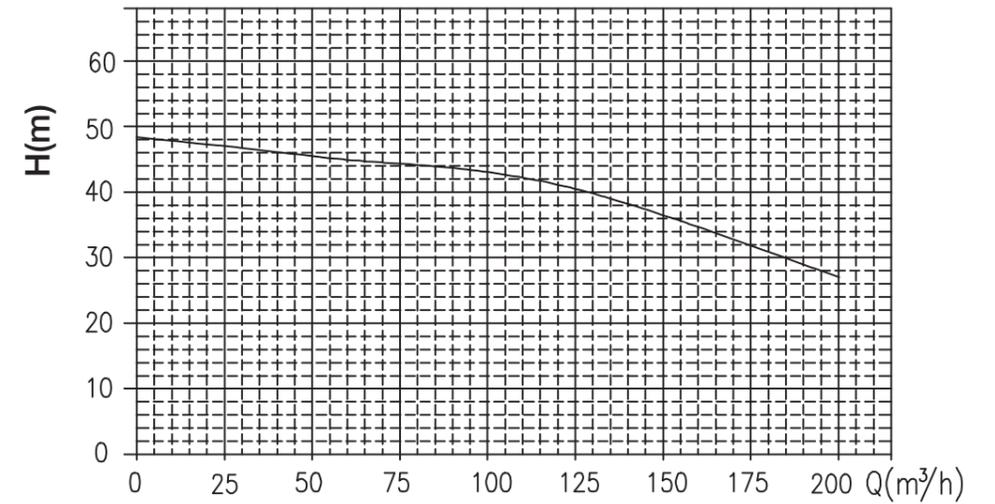
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# WF100 100-40/30

Performance curve

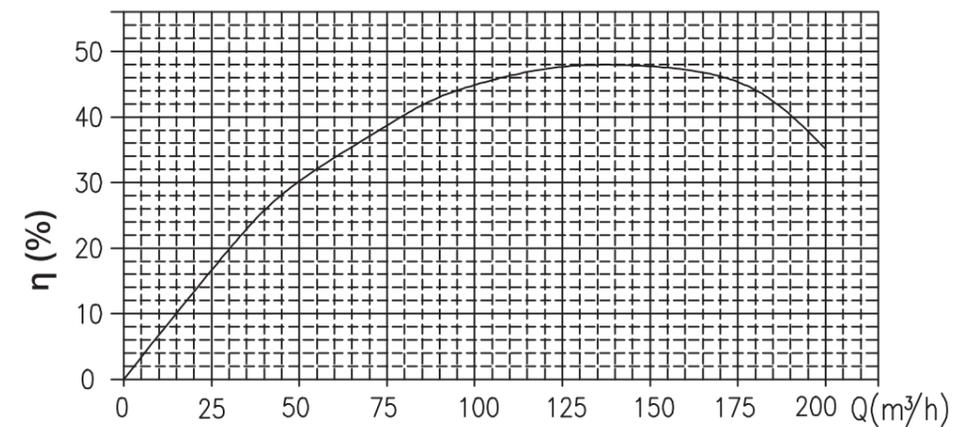
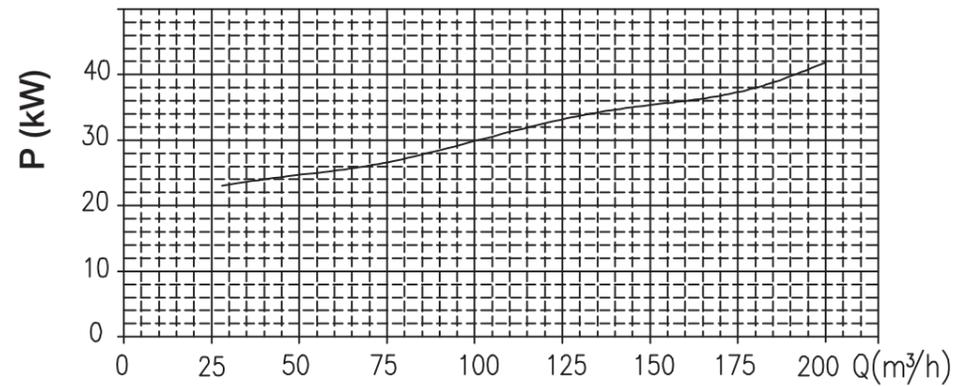
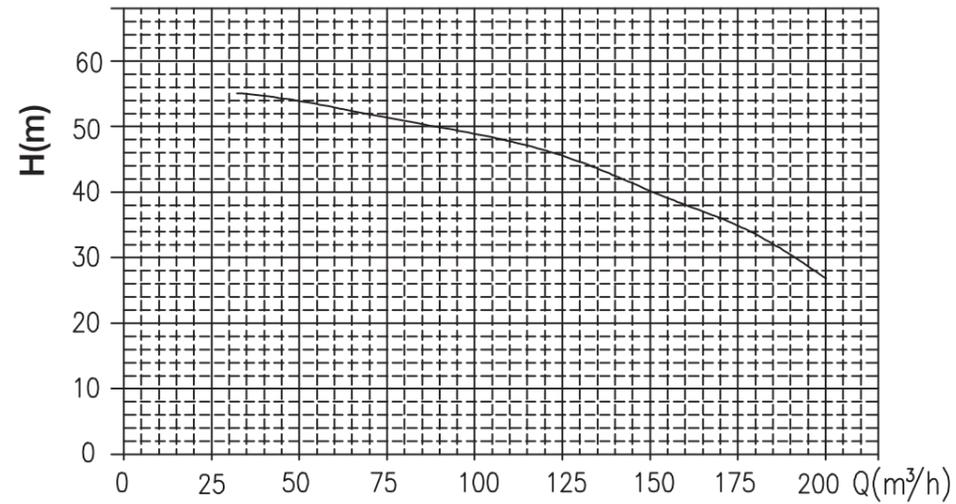
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# WF100 100-50/37

Performance curve

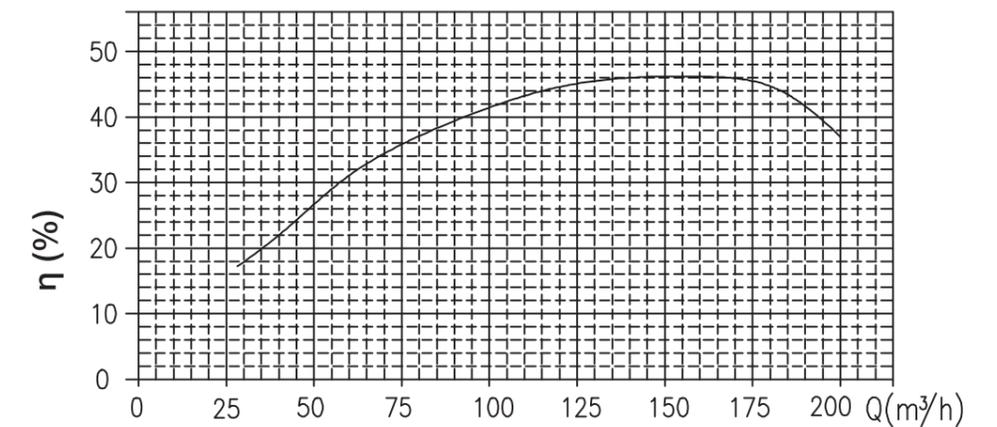
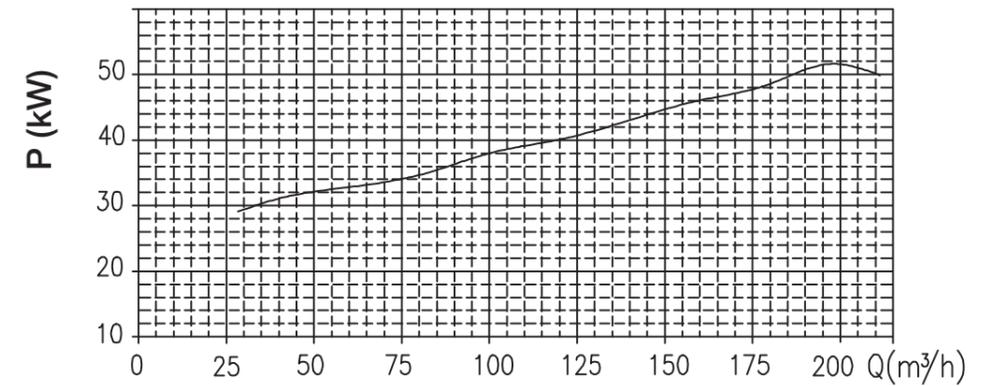
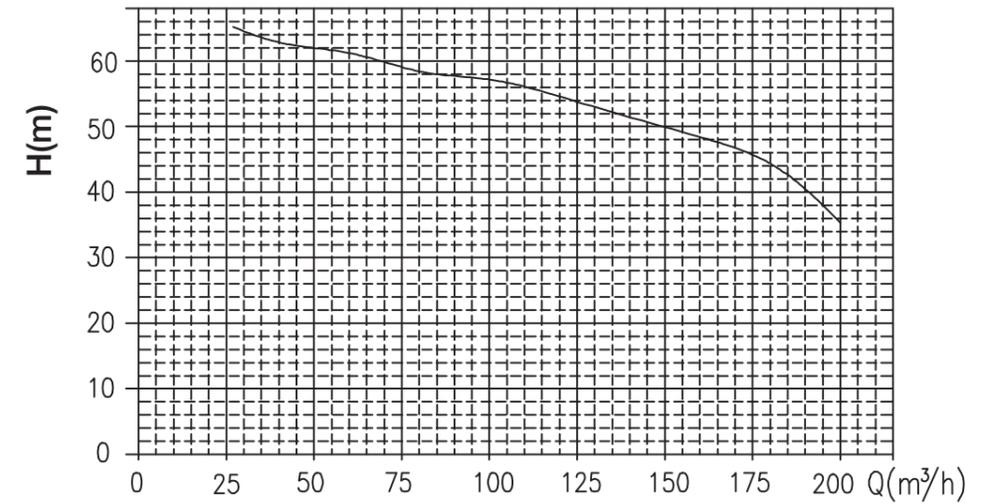
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# WF100 100-60/45

Performance curve

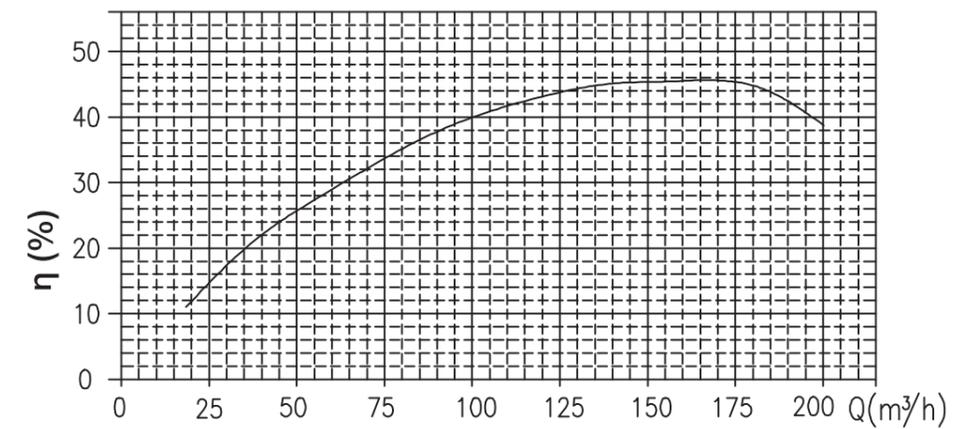
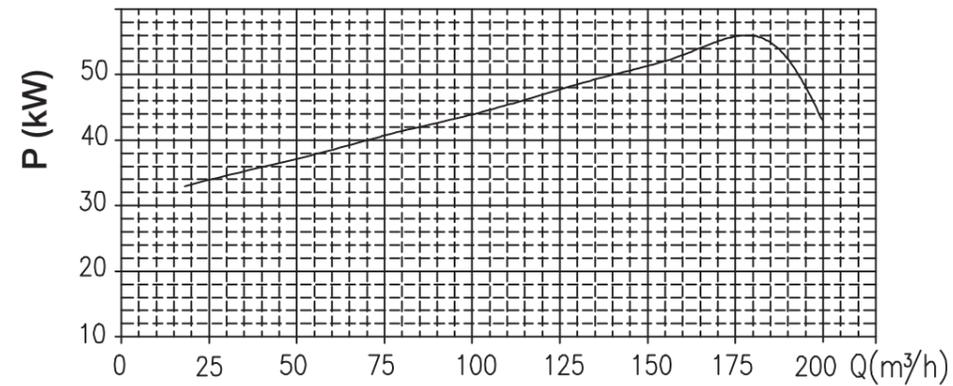
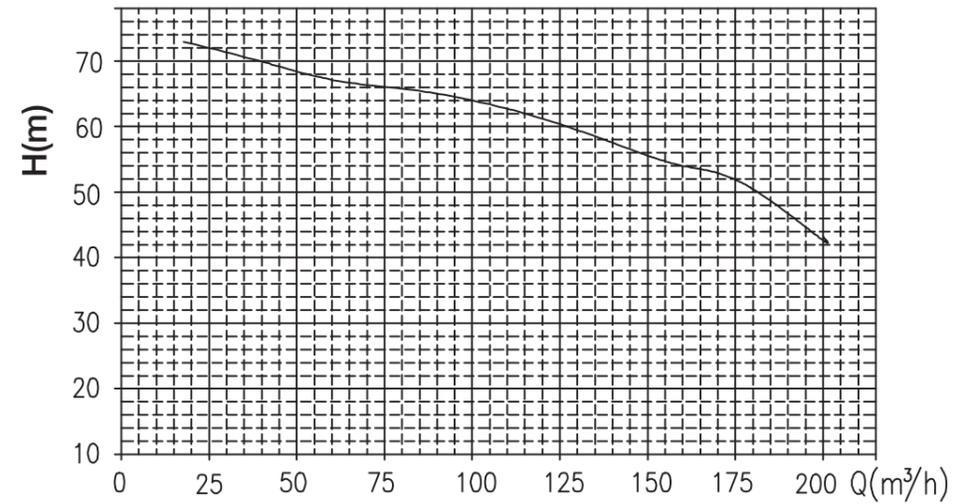
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# WF100 160-50/55

Performance curve

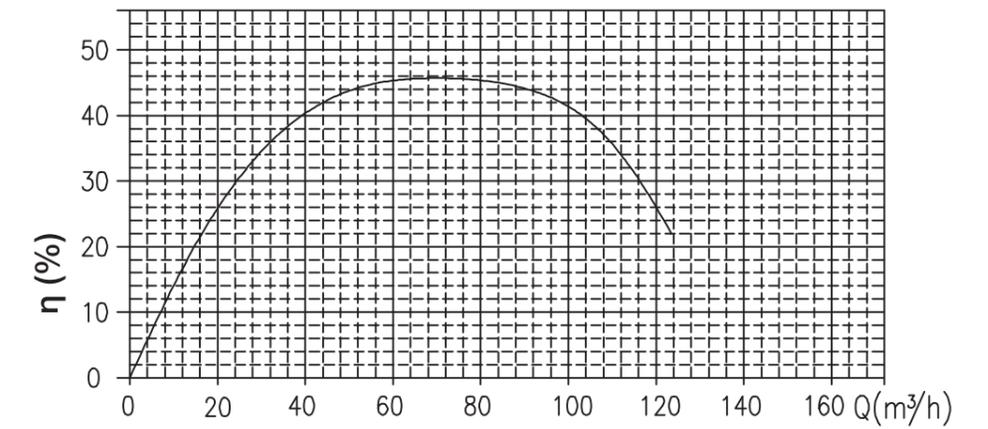
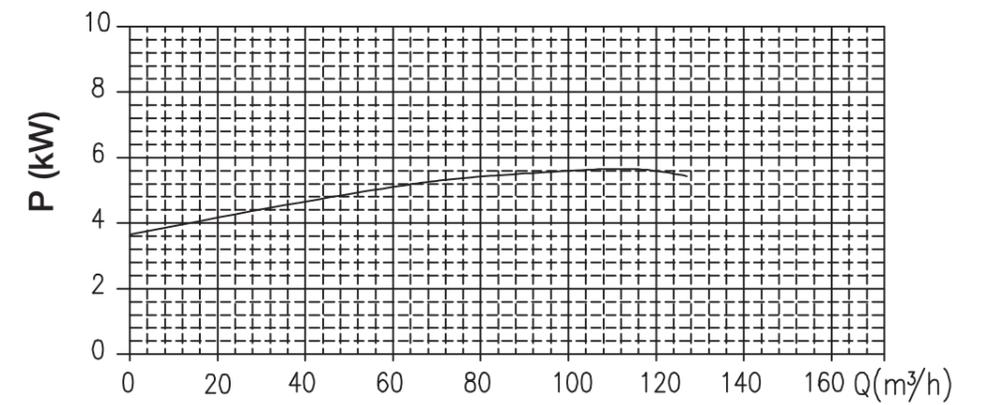
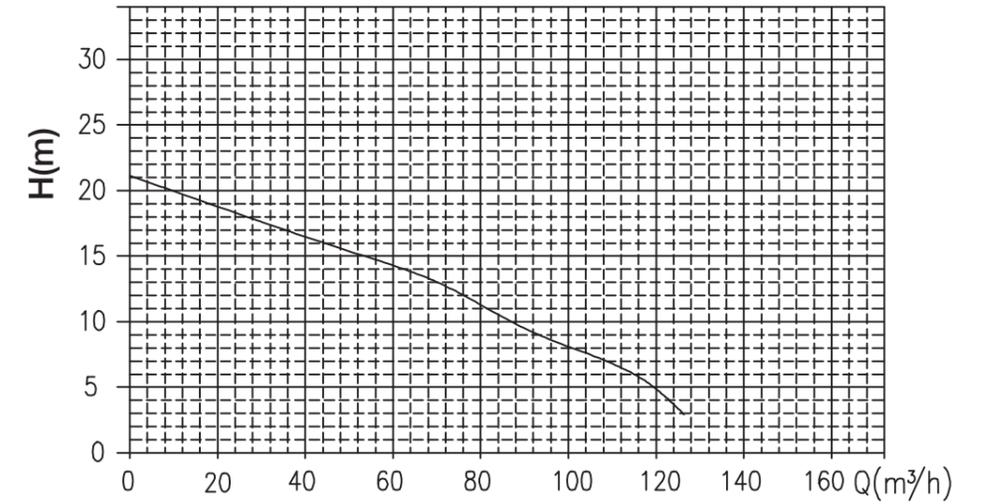
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# WF150 100-7/5.5

Performance curve

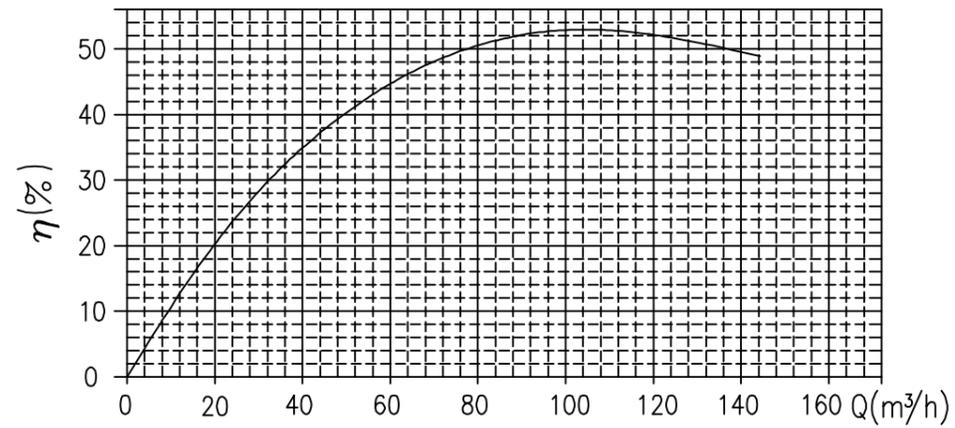
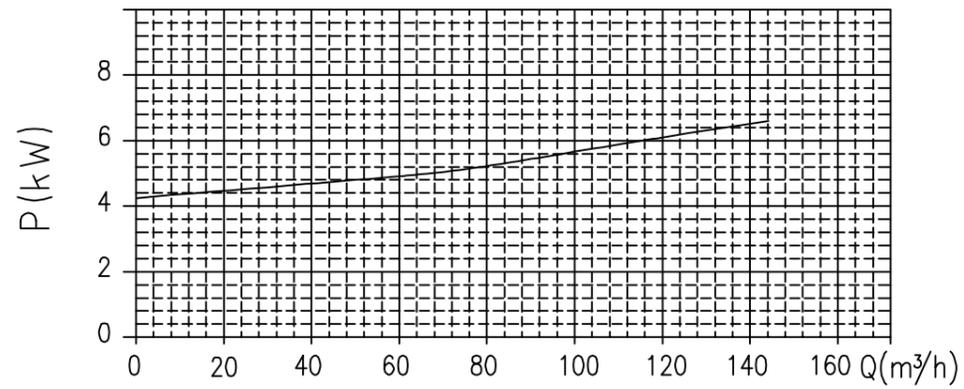
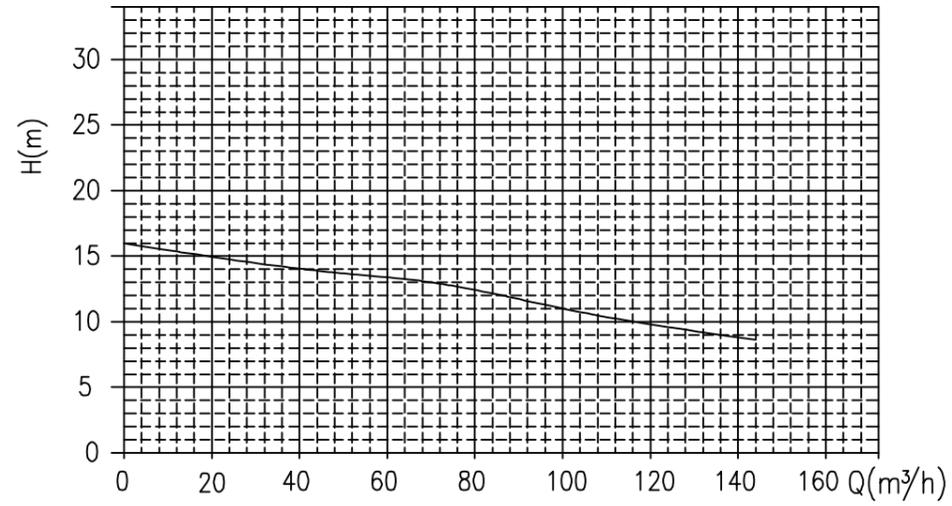
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# WF150 80-15/7.5

Performance curve

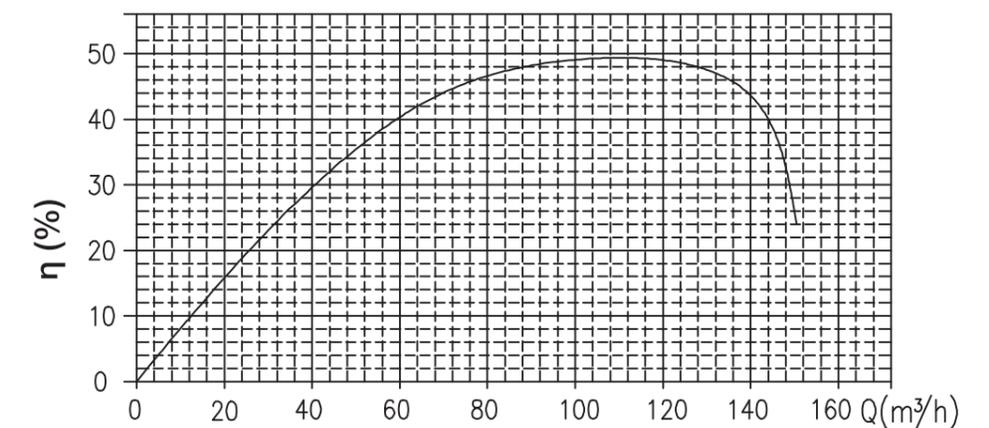
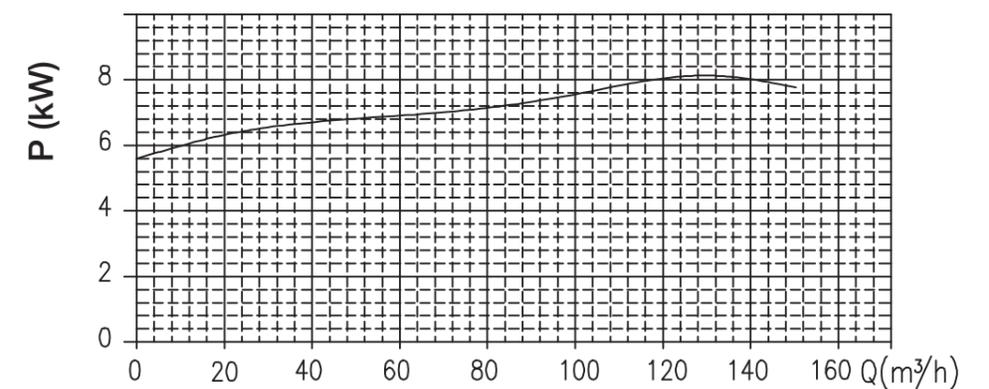
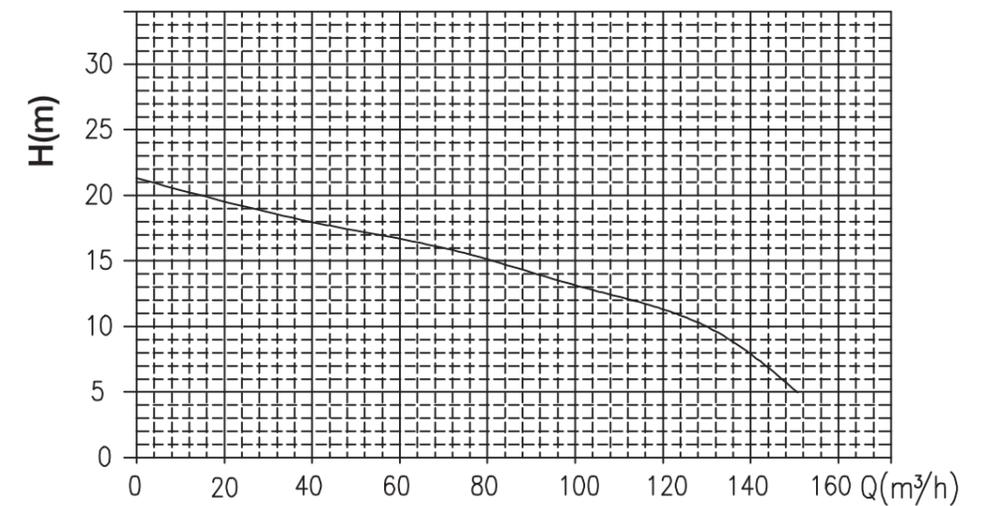
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# WF150 120-10/7.5

Performance curve

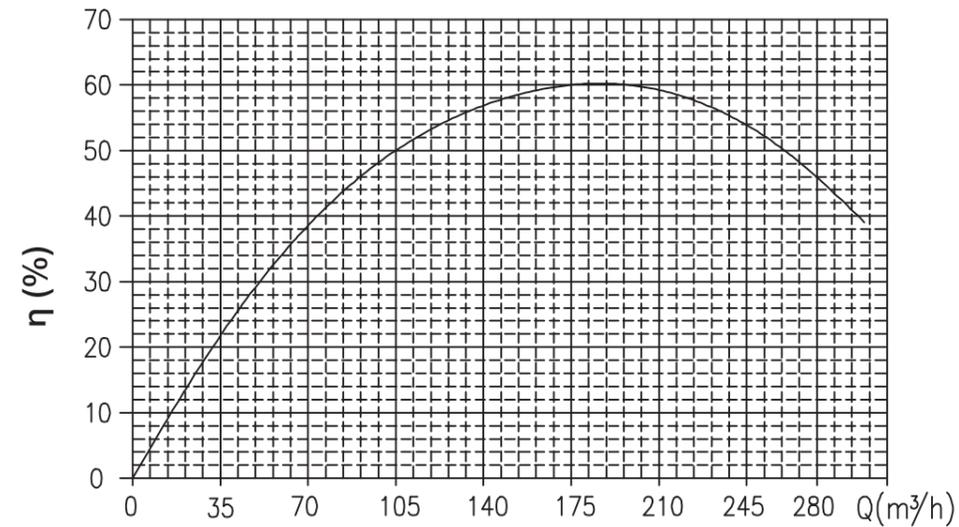
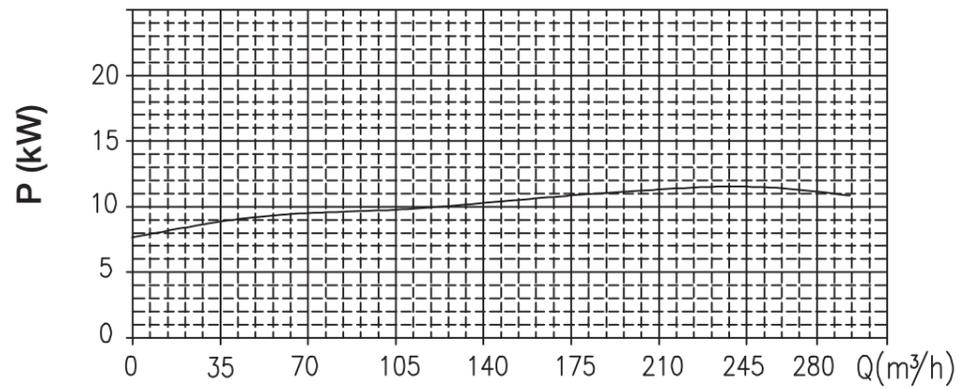
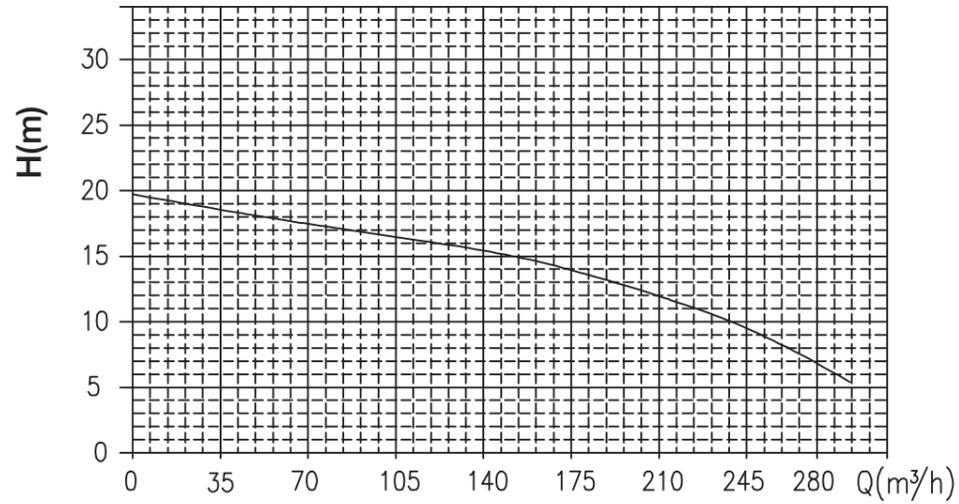
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Performance curve

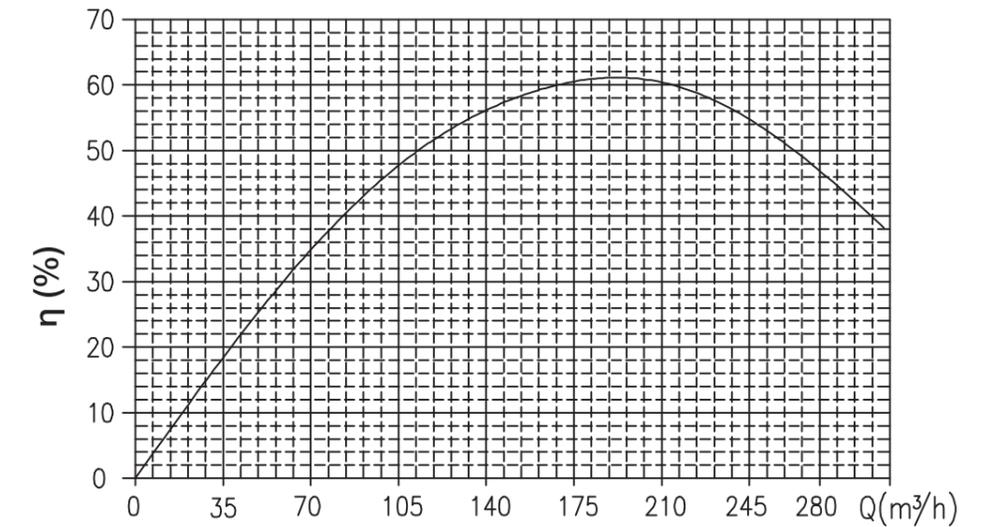
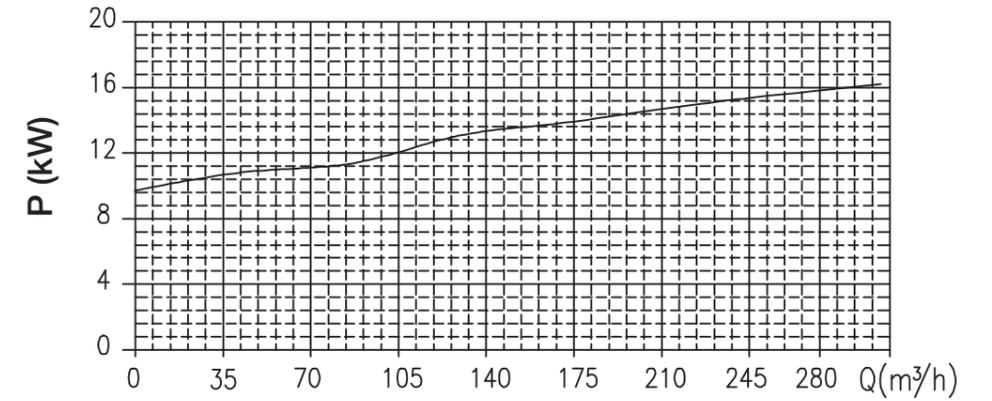
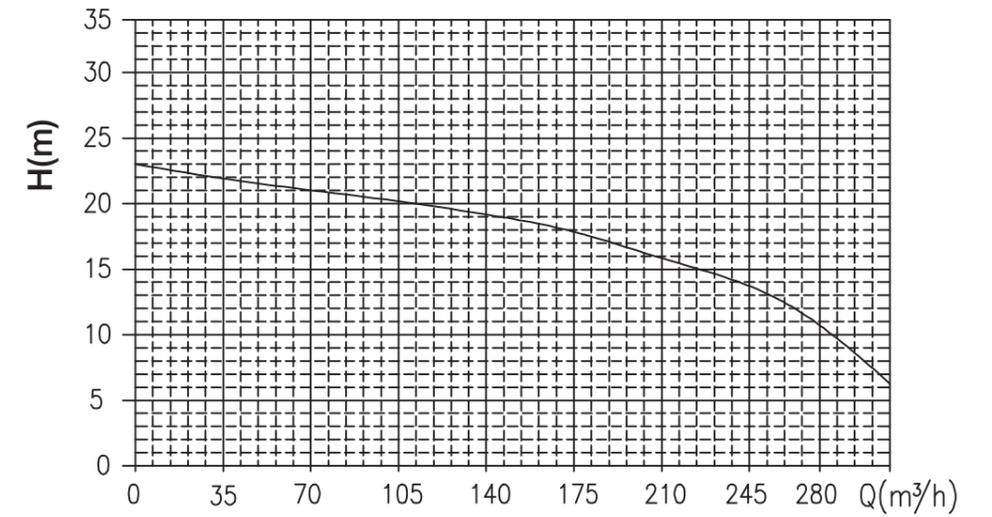
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# WF150 180-15/15

Performance curve

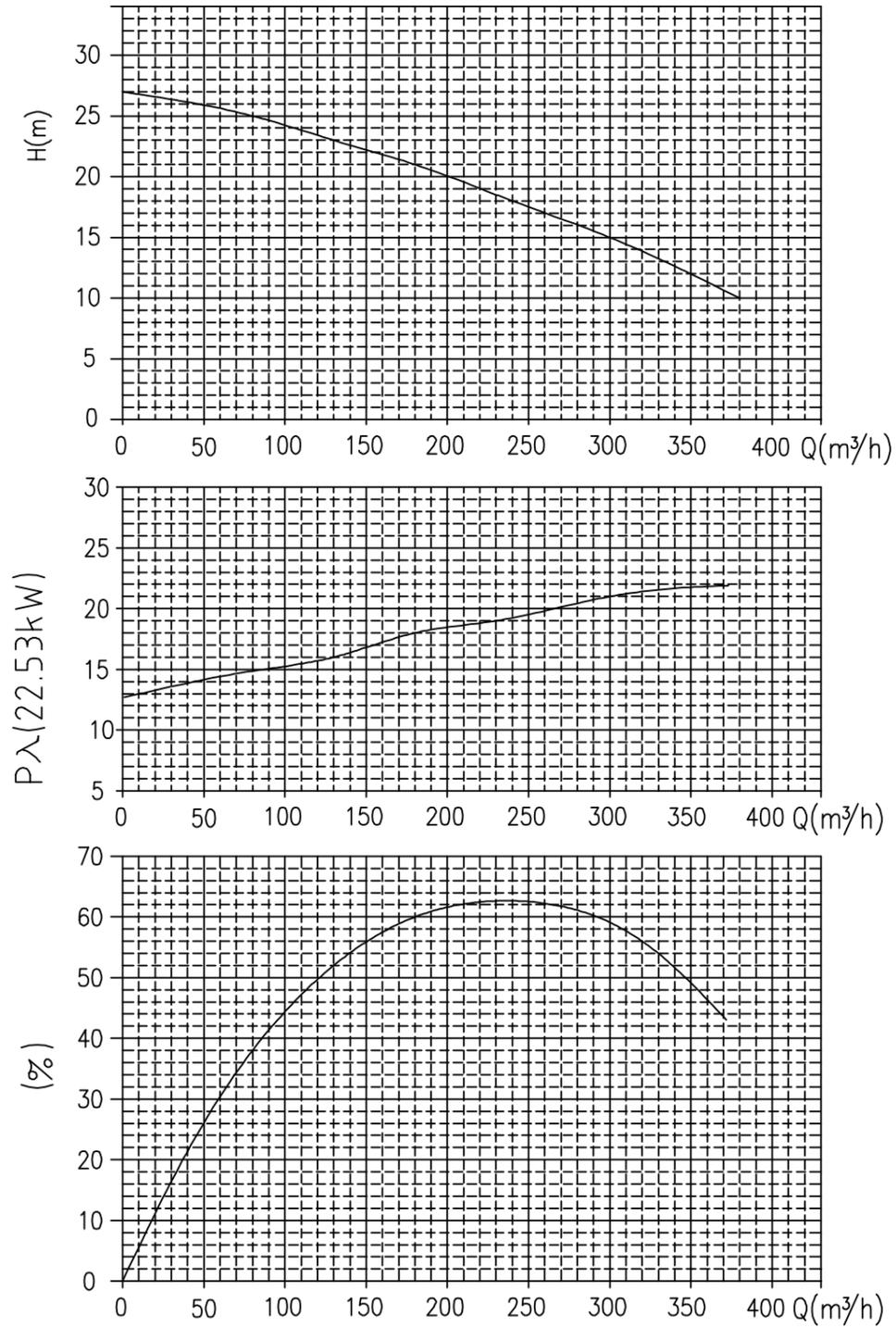
1450 r/min



# WF150 180-20/18.5

Performance curve

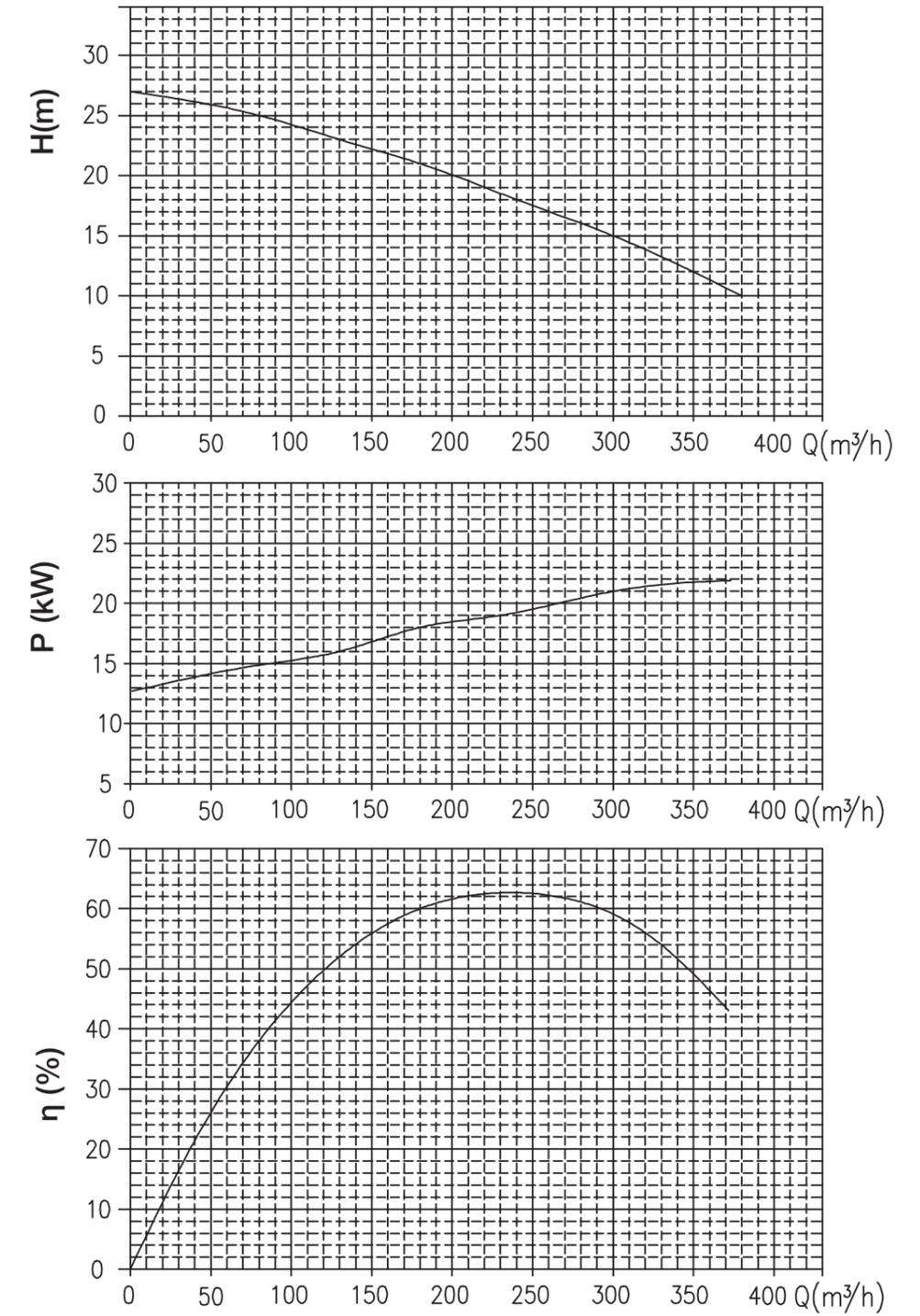
1450 r/min



# WF150 200-20/22

Performance curve

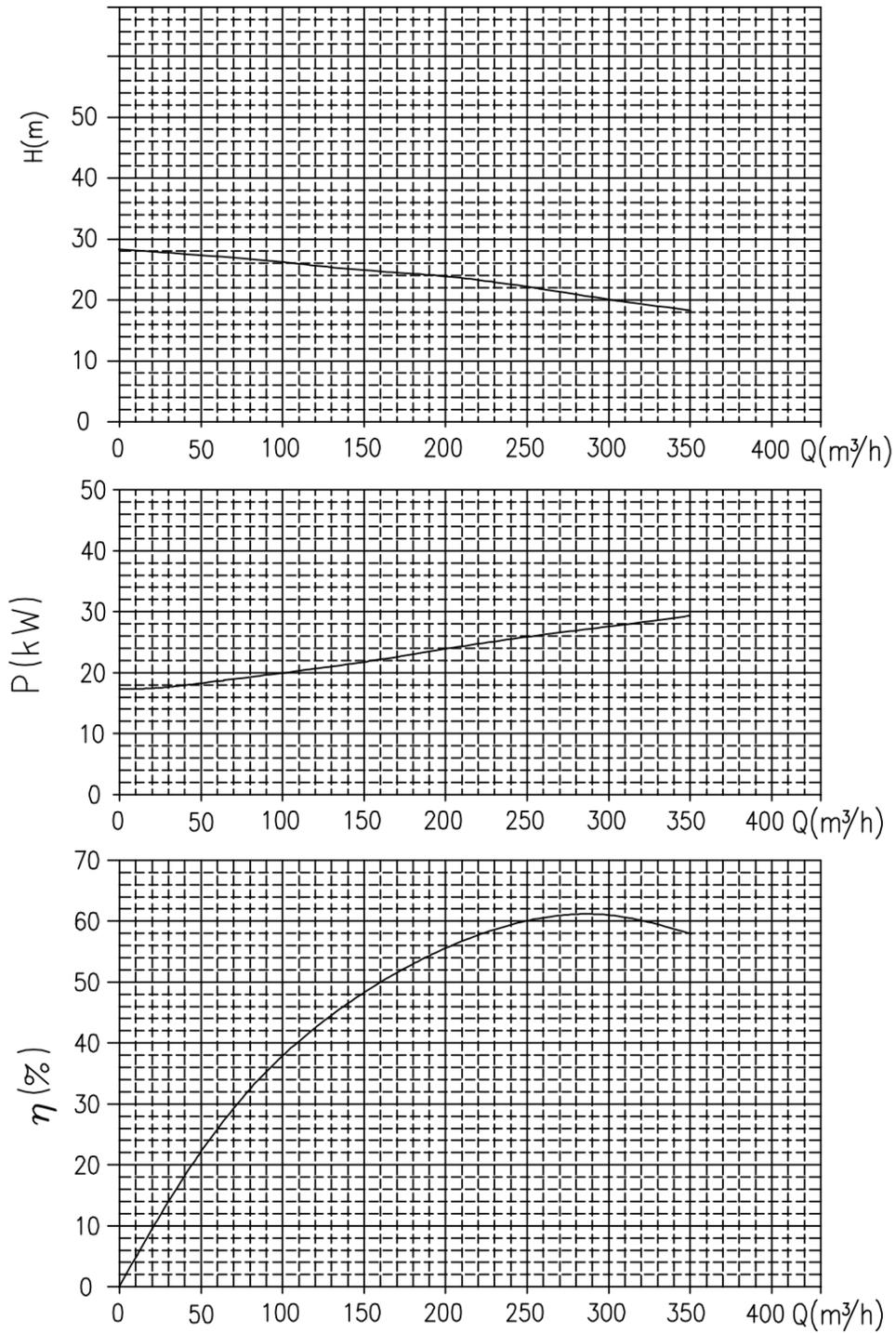
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# WF150 200-25/30

Performance curve

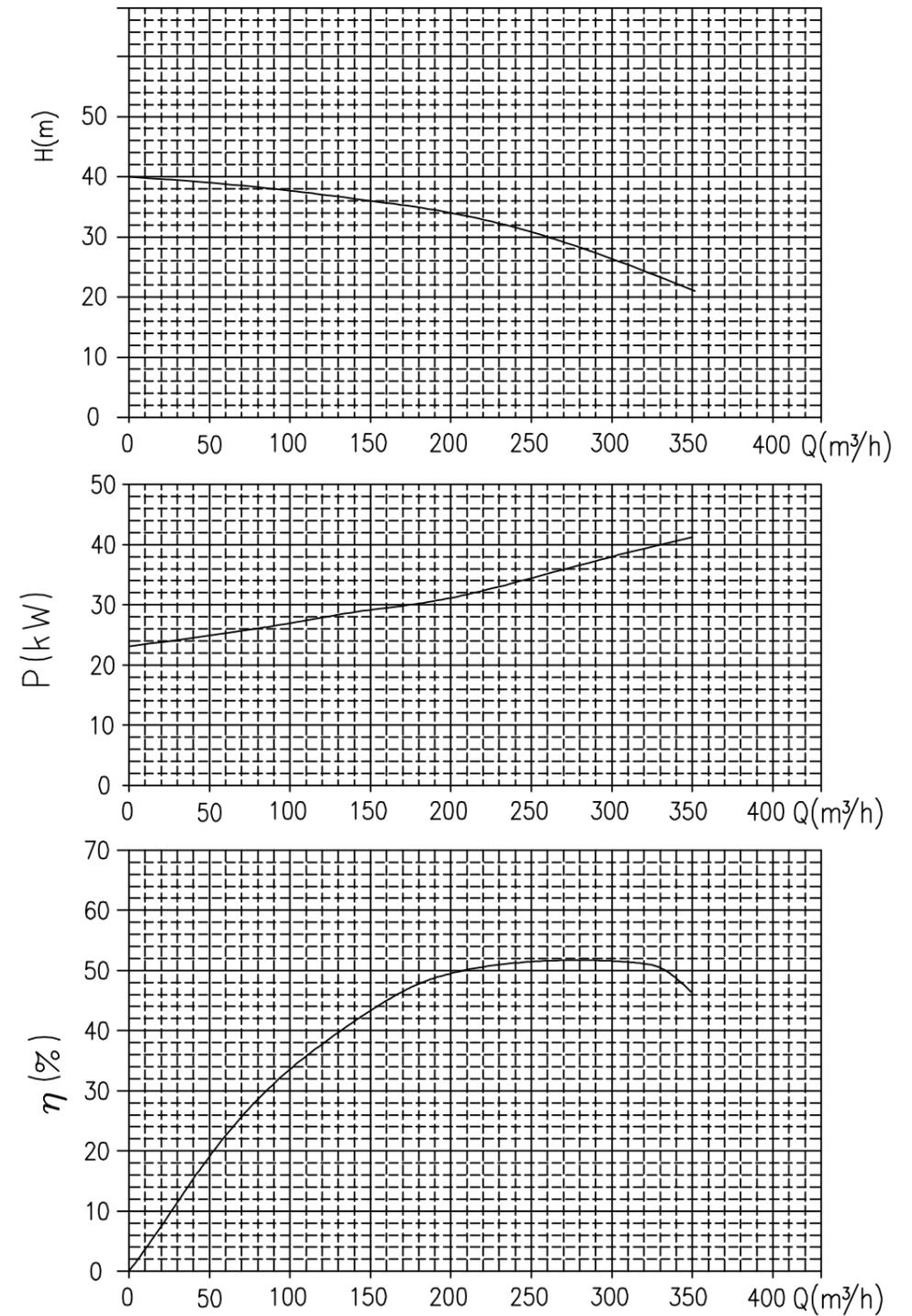
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# WF150 200-35/37

Performance curve

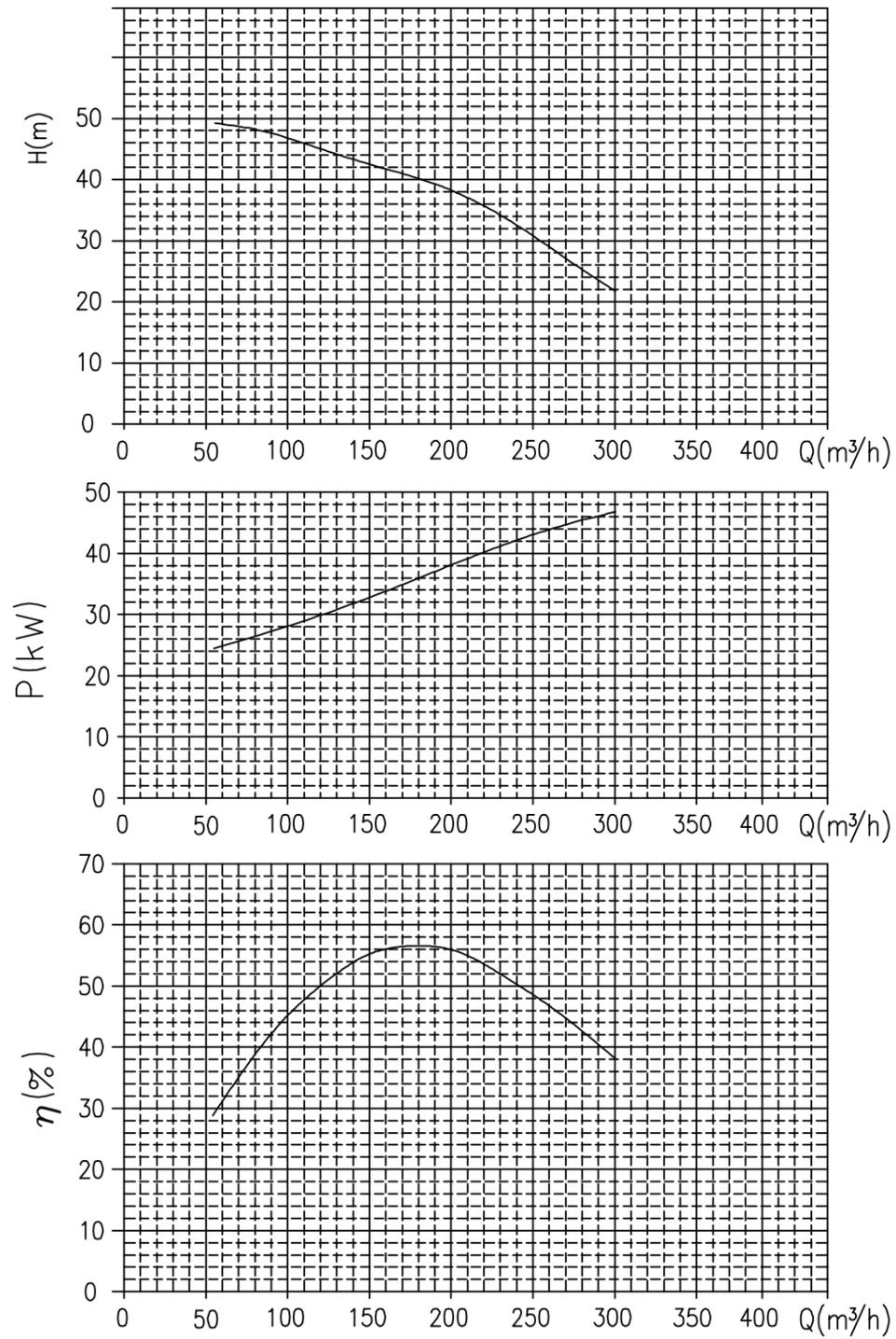
1450 r/min



# WF150 200-40/45

Performance curve

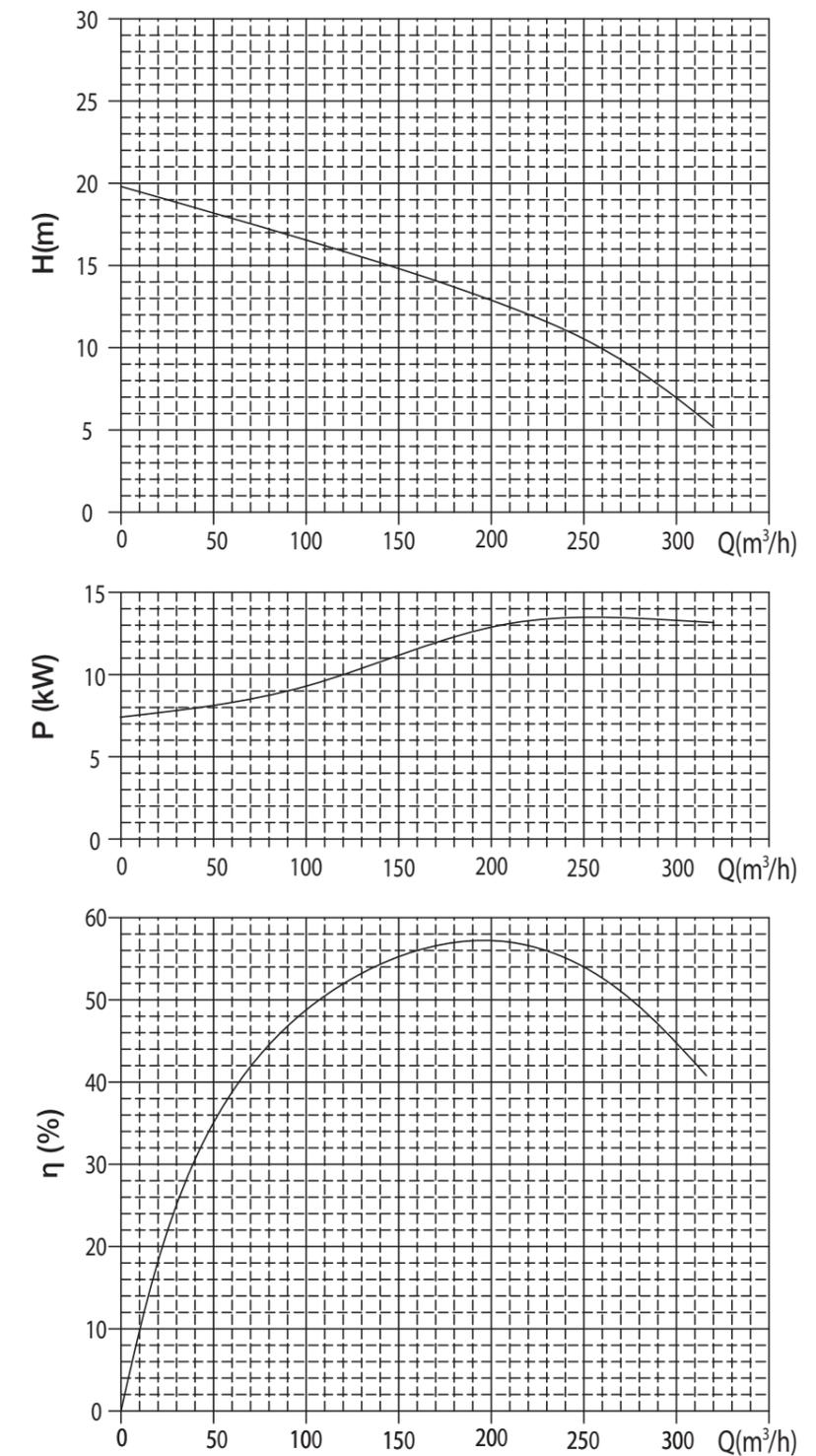
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# WF200 300-7/11

Performance curve

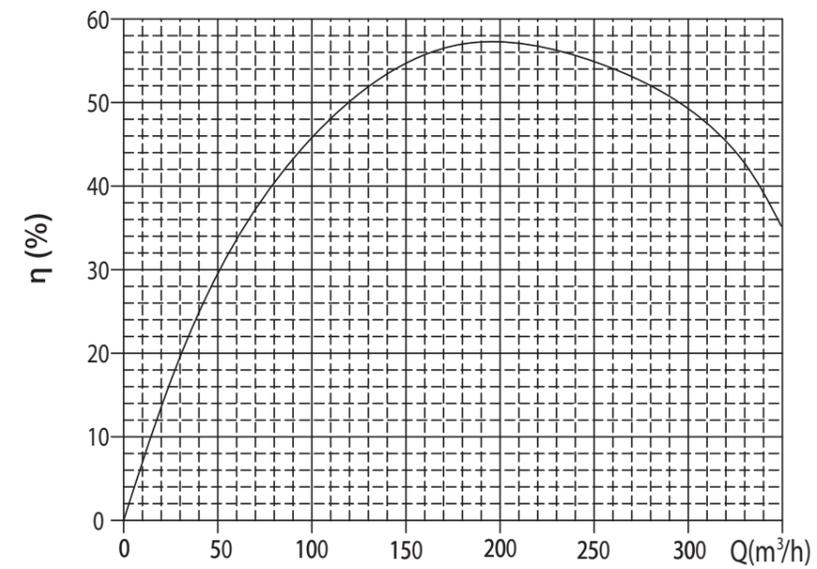
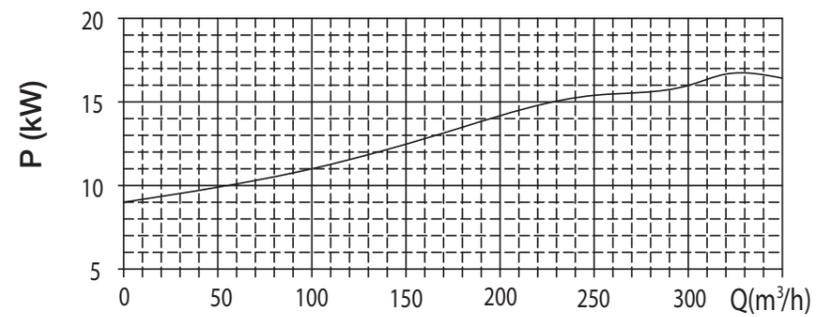
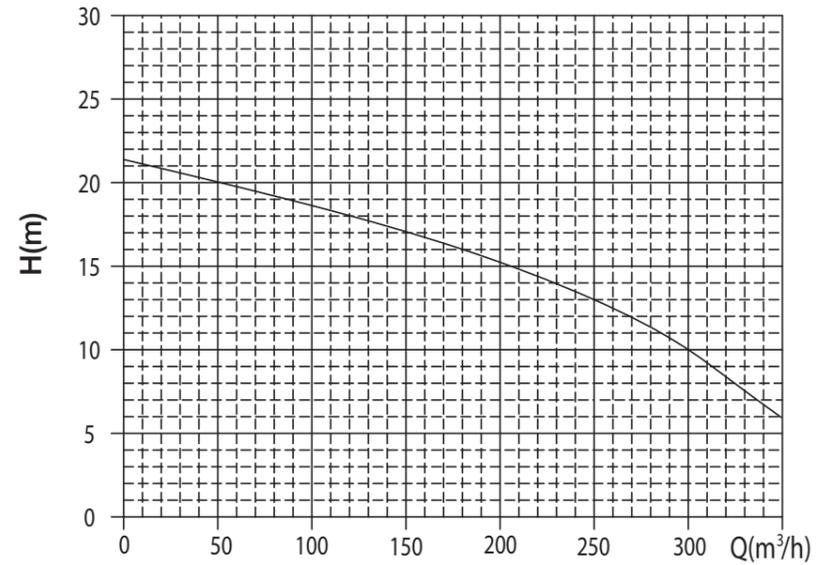
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# WF200 250-11/15

Performance curve

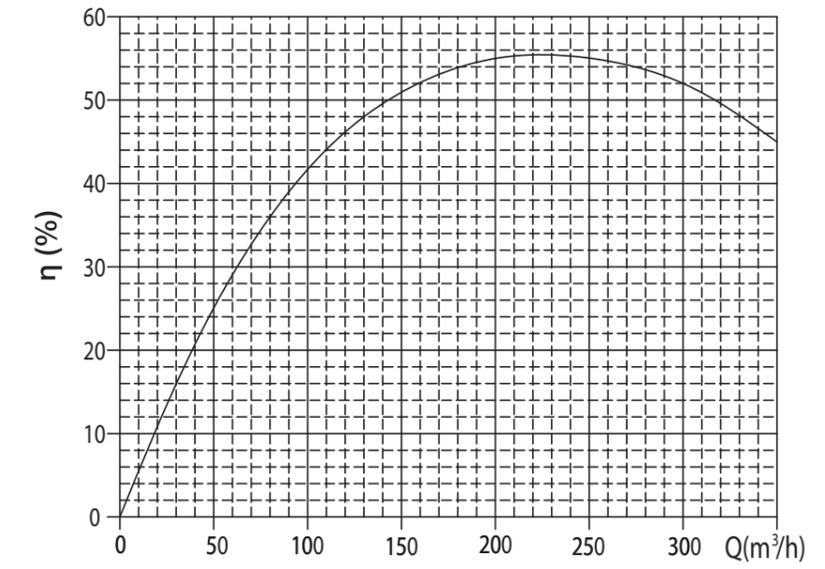
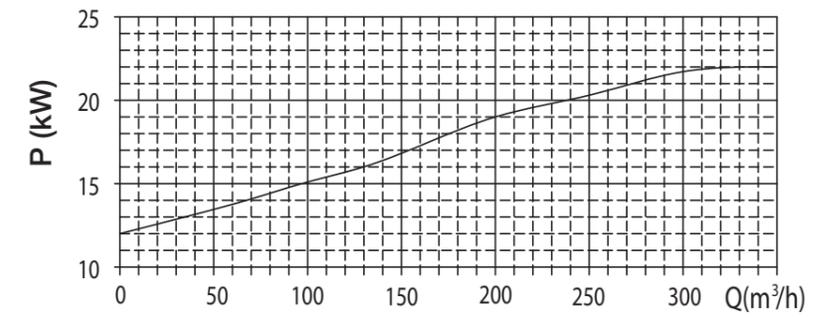
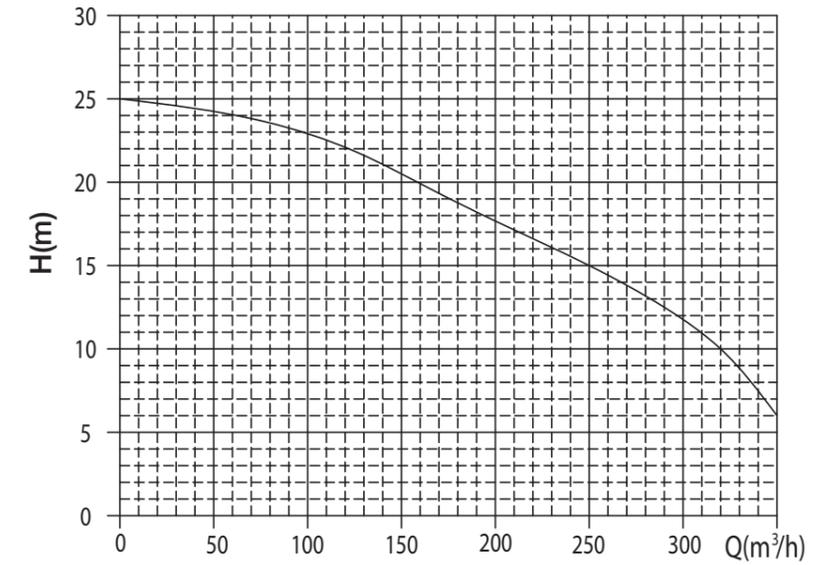
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# WF200 250-15/18.5

Performance curve

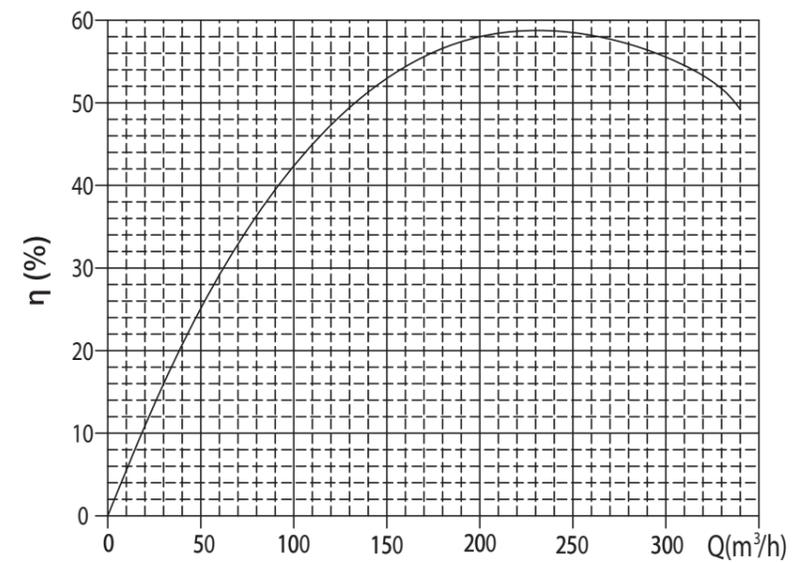
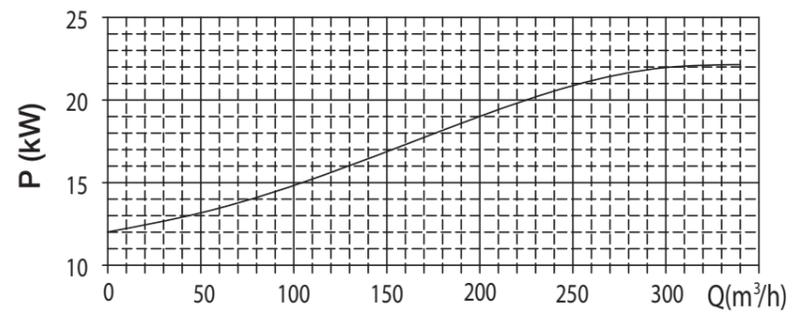
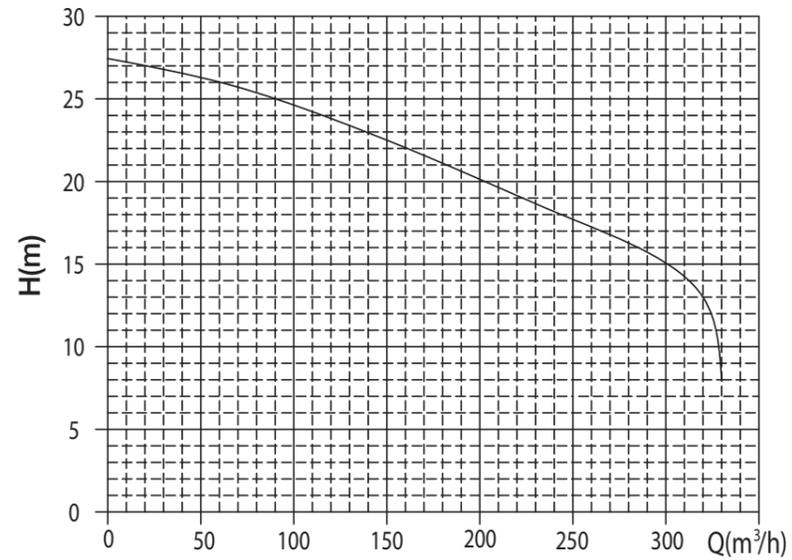
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# WF200 300-15/22

Performance curve

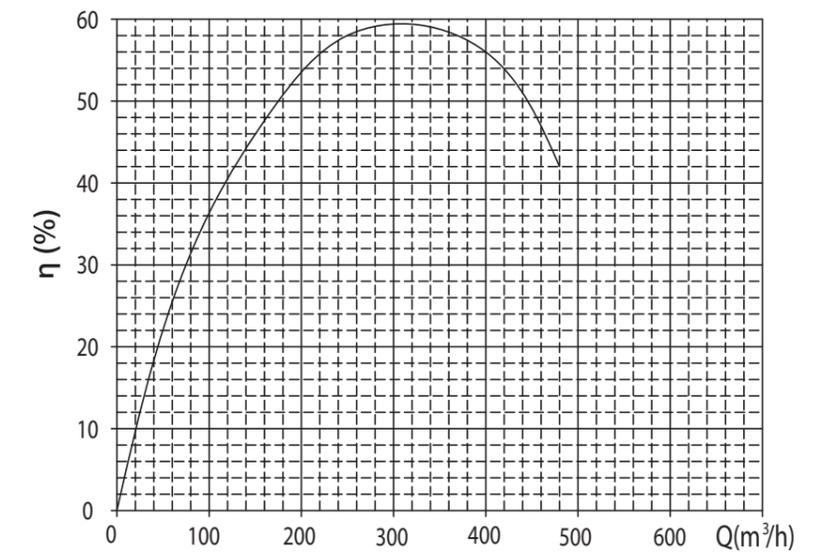
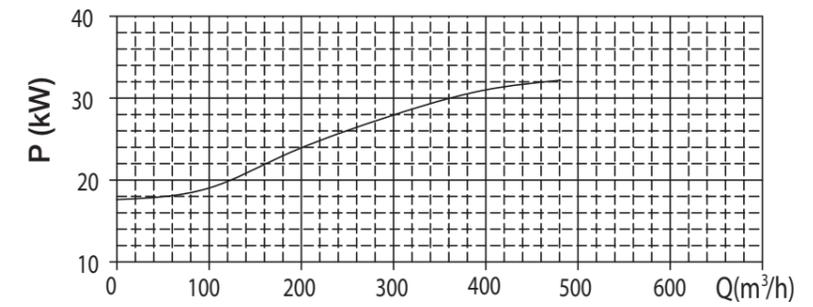
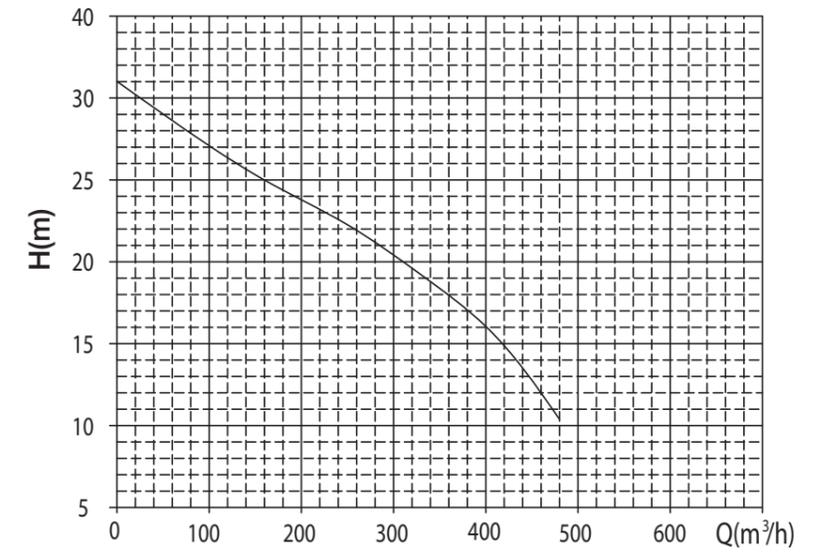
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# WF200 350-15/30

Performance curve

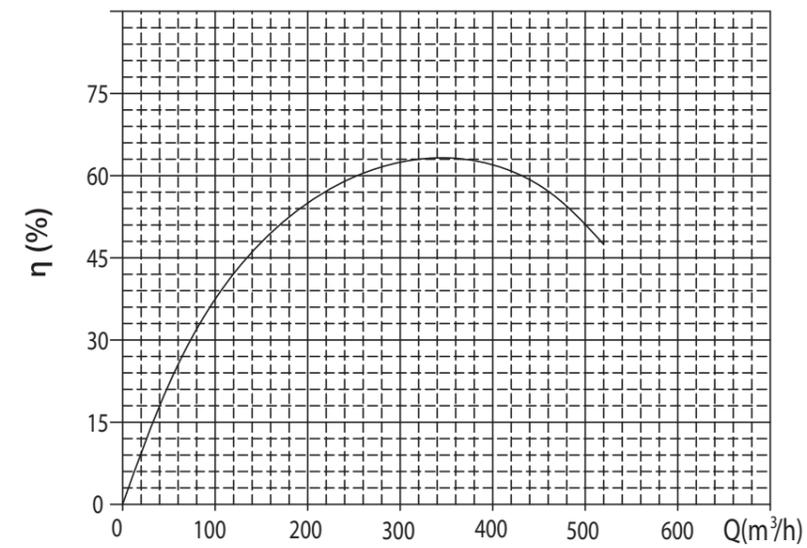
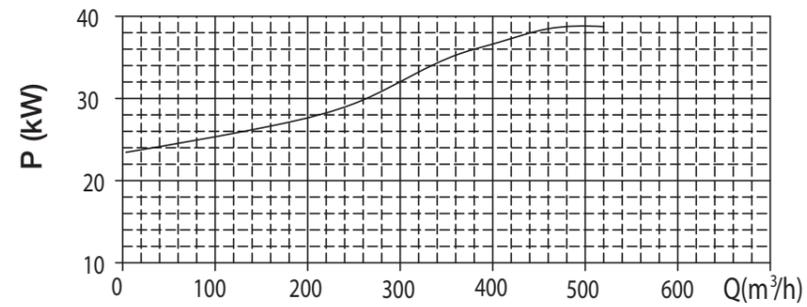
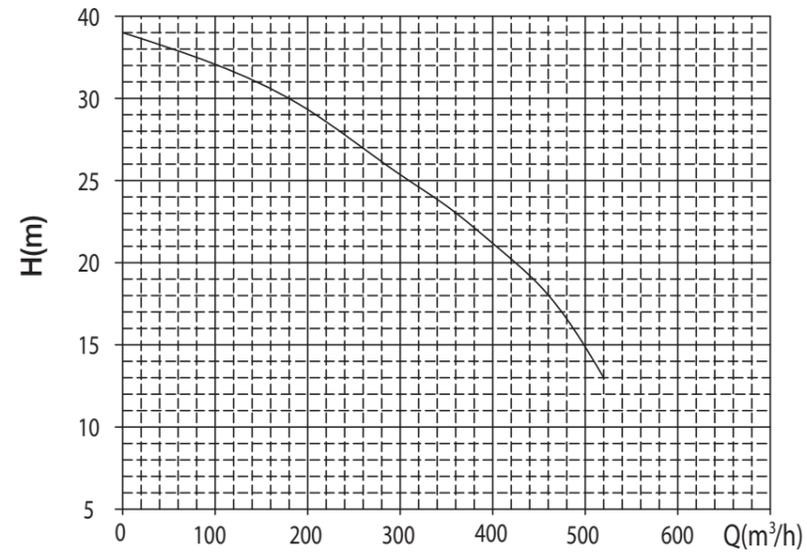
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# WF200 300-25/37

Performance curve

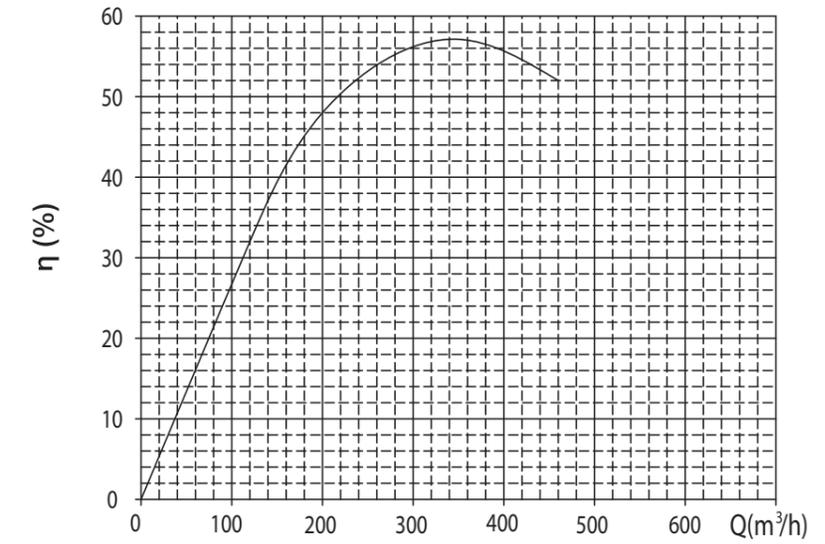
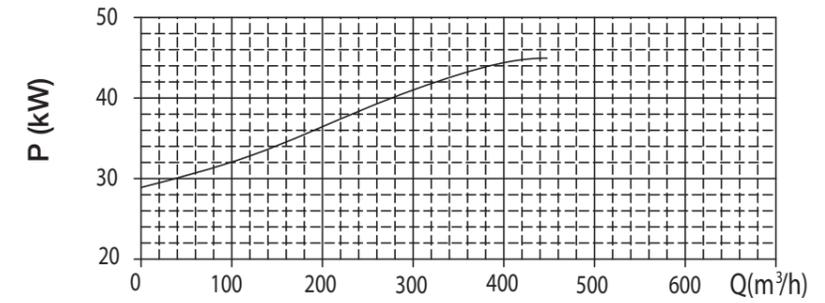
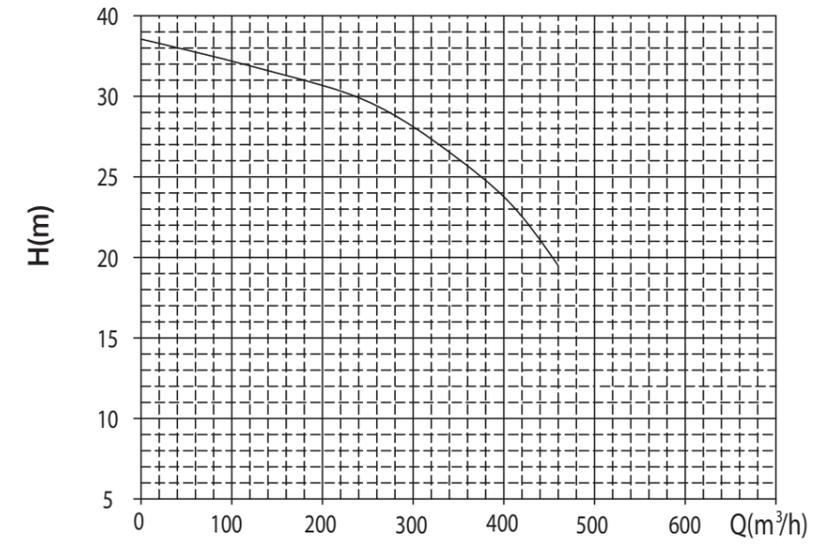
1450 r/min



# WF200 250-30/45

Performance curve

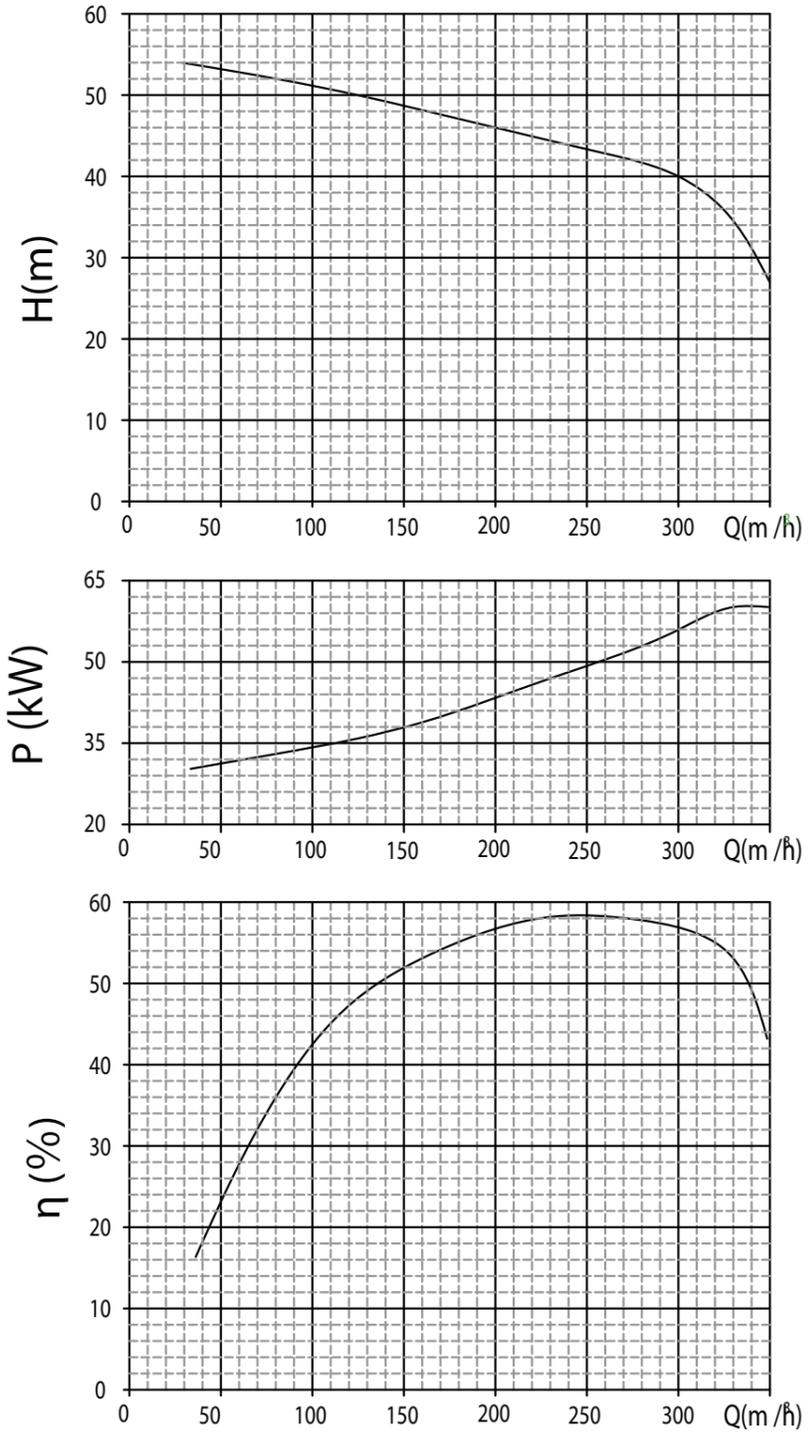
1450 r/min



# WF200 300-40/55

Performance curve

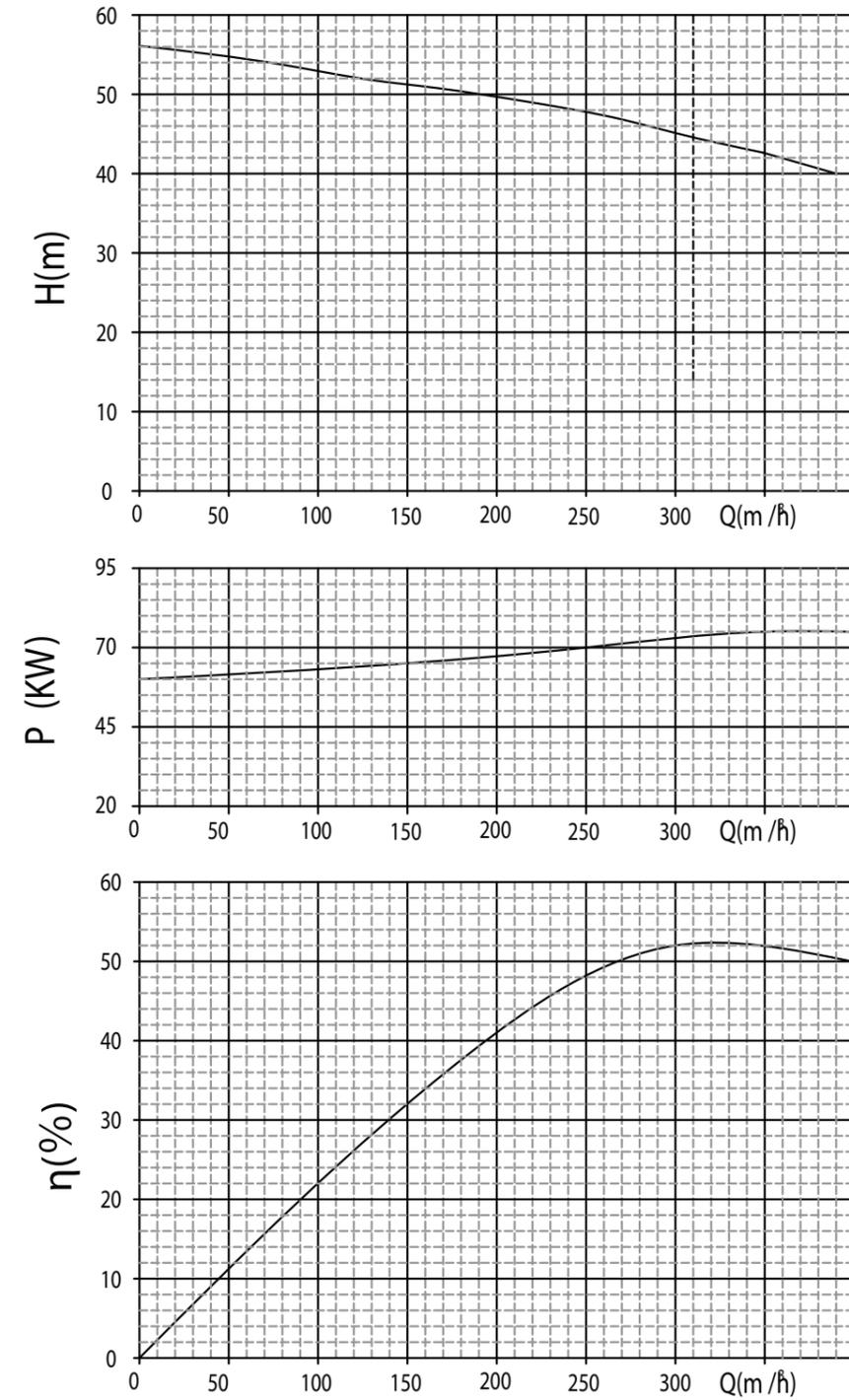
1450 r/min



# WF200 350-40/75

Performance curve

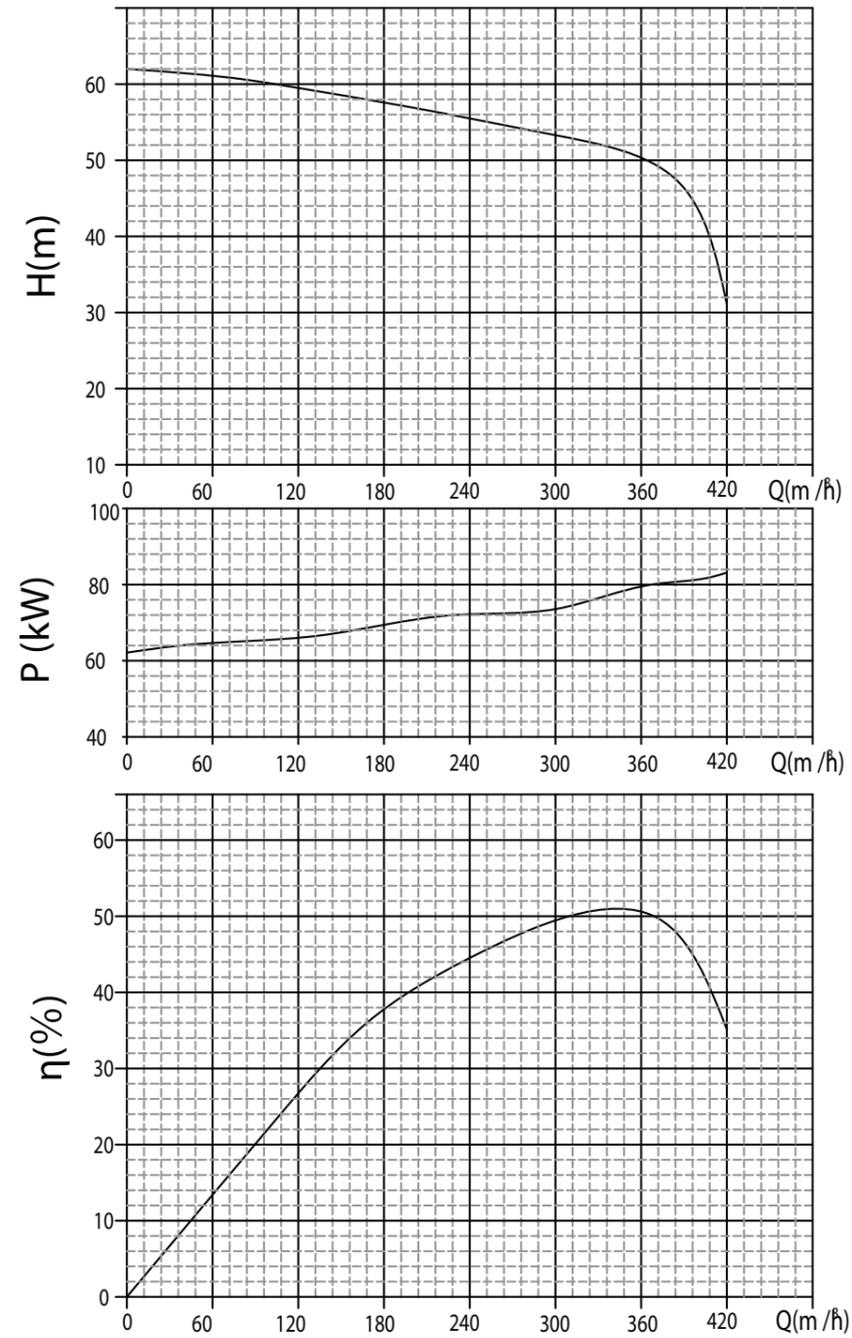
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# WF200 350-50/90

Performance curve

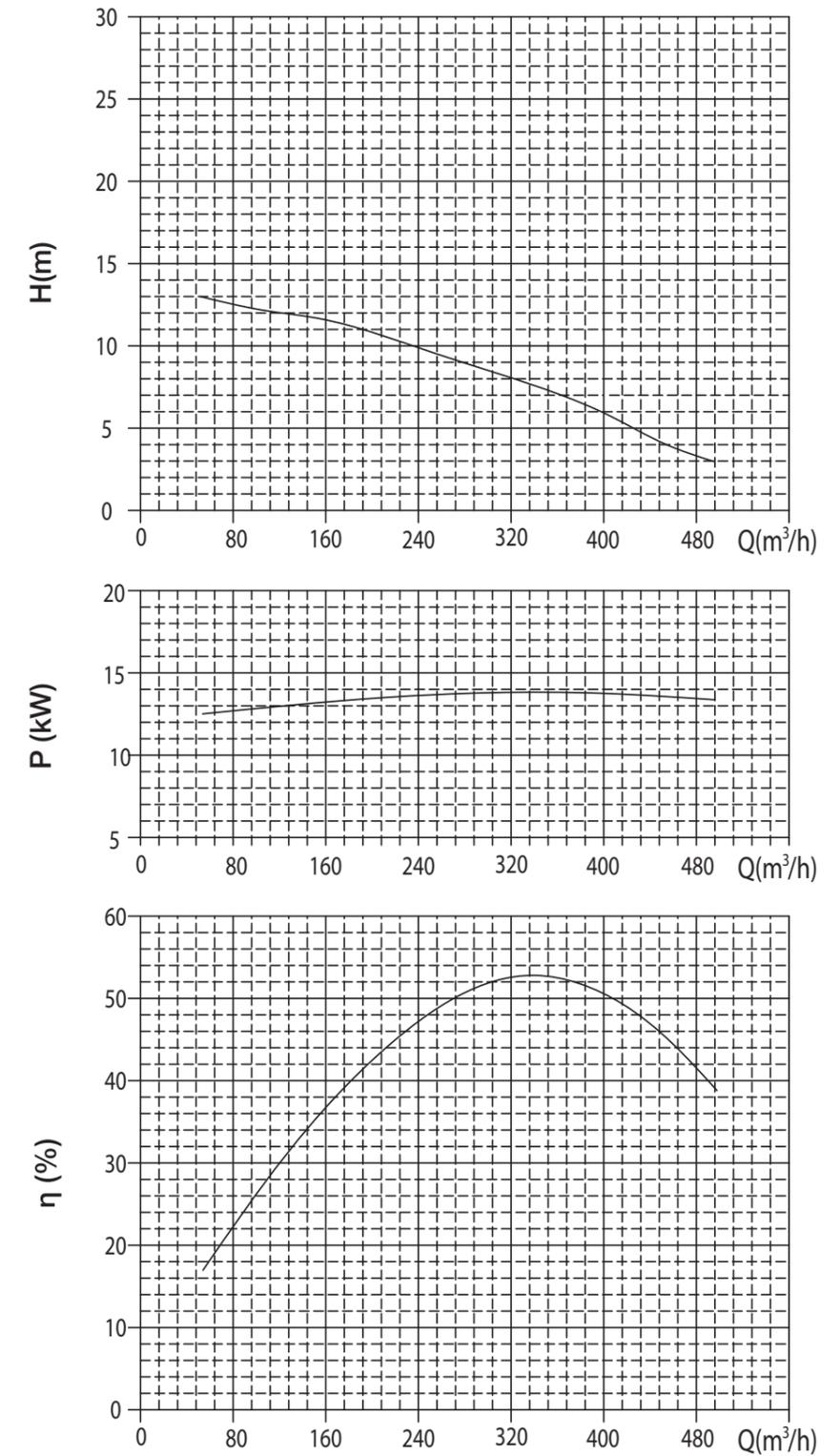
1450 r/min



# WF250 400-5/11

Performance curve

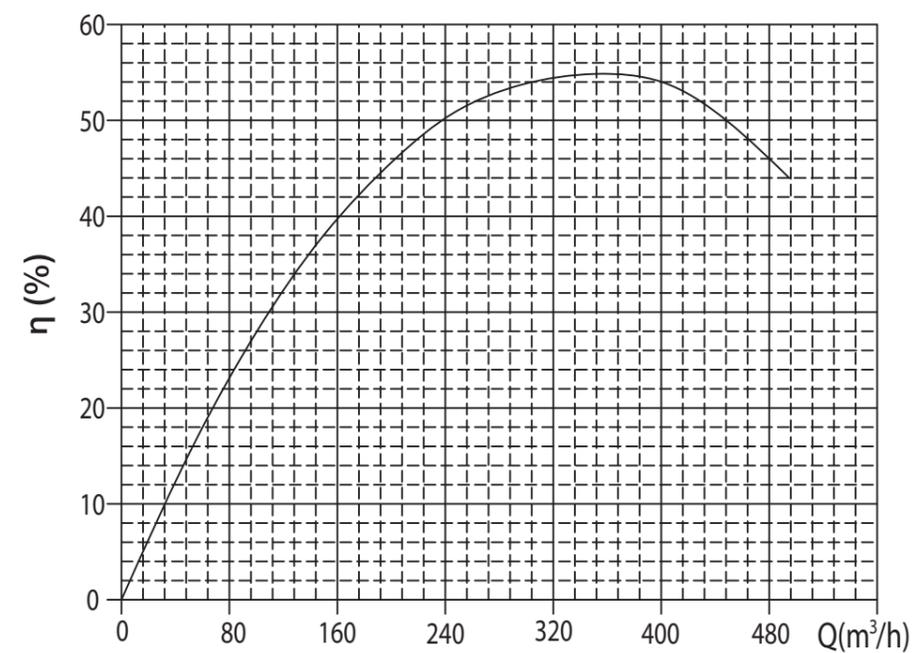
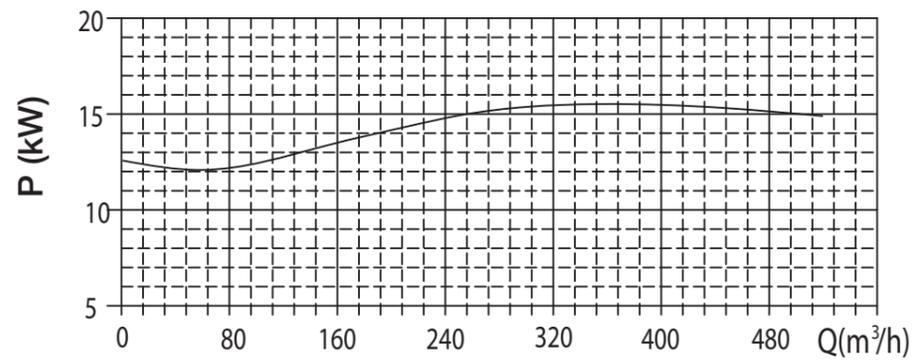
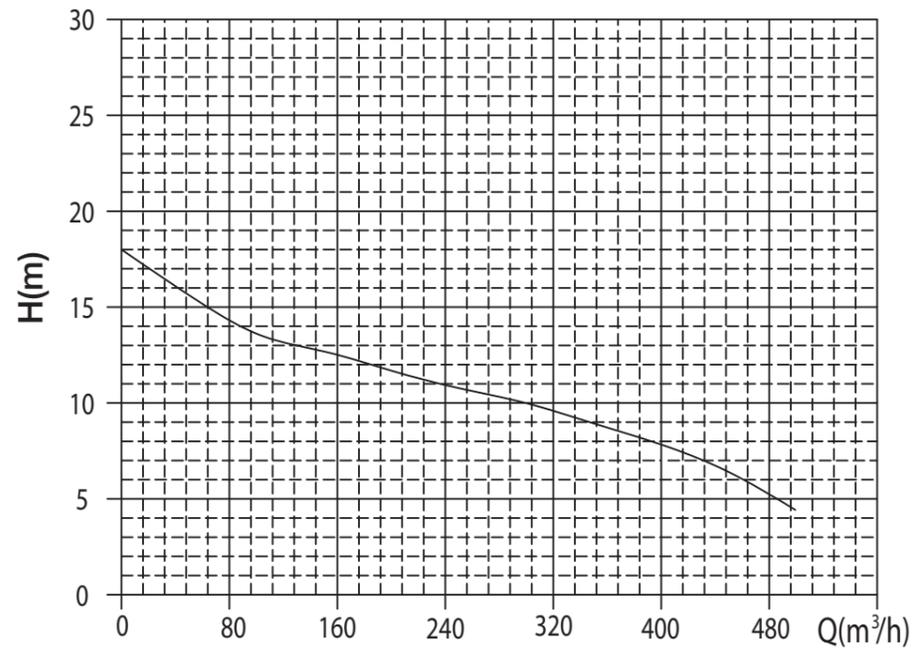
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# WF250 400-7/15

Performance curve

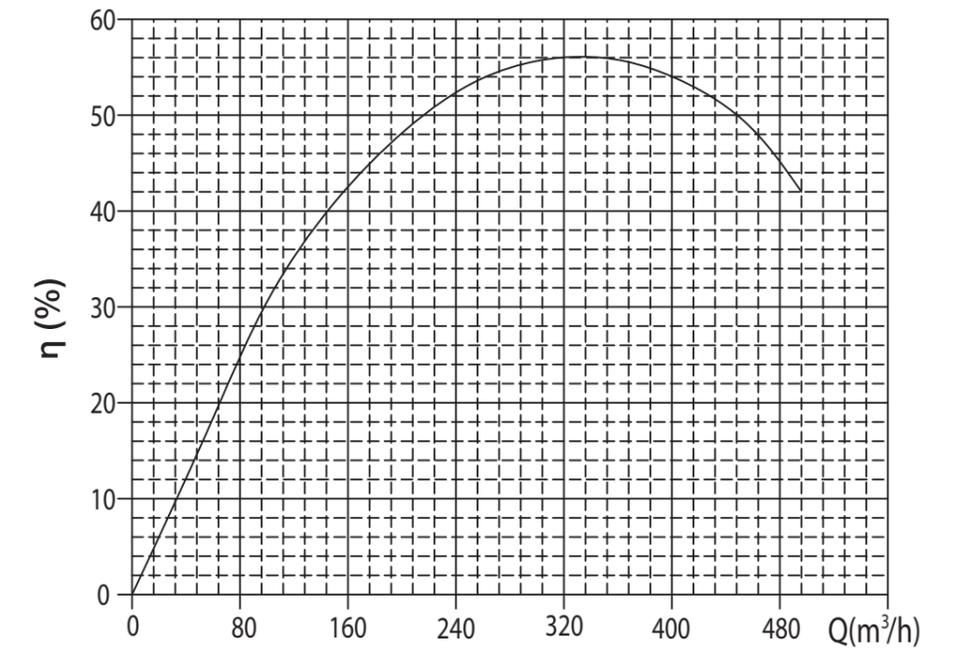
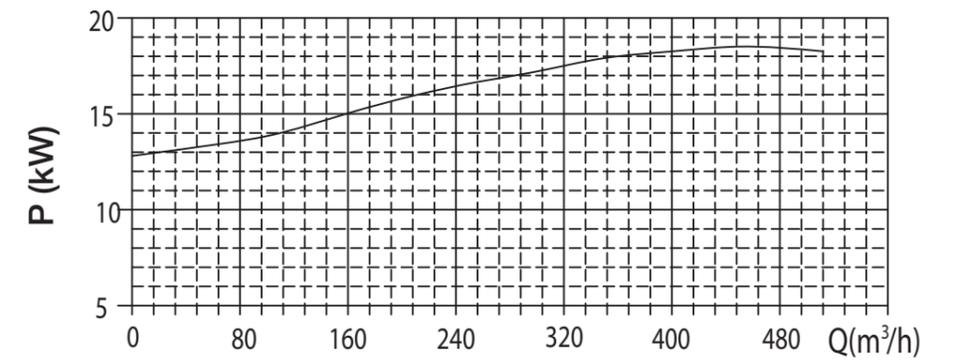
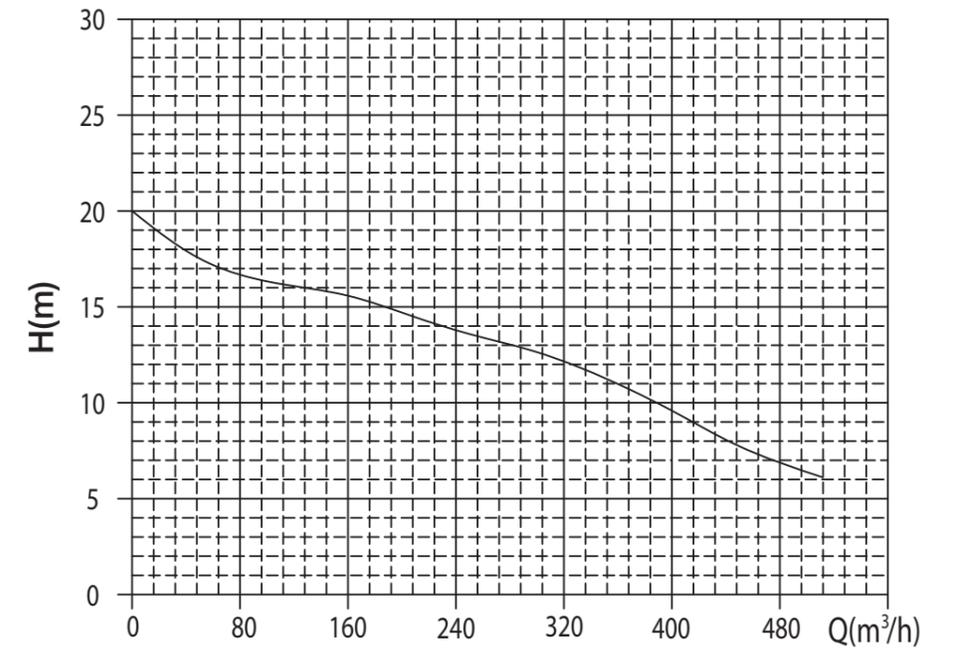
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# WF250 400-10/18.5

Performance curve

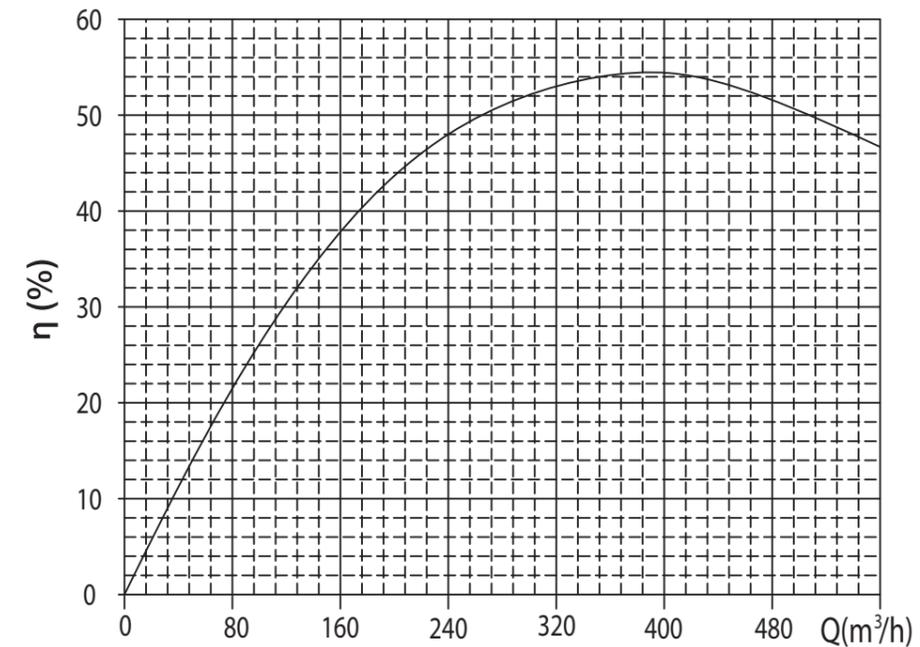
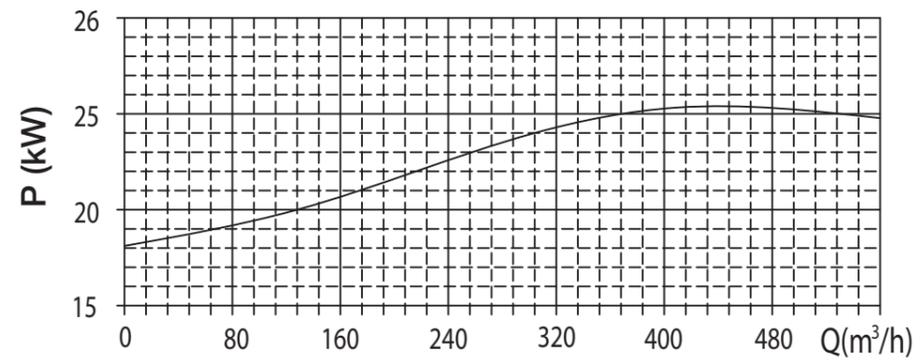
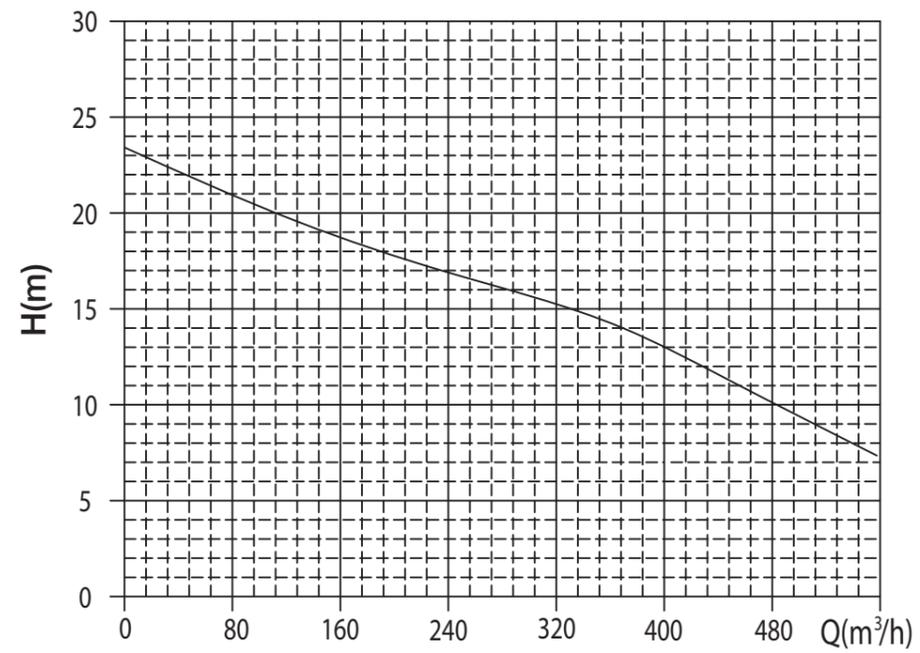
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# WF250 500-10/22

Performance curve

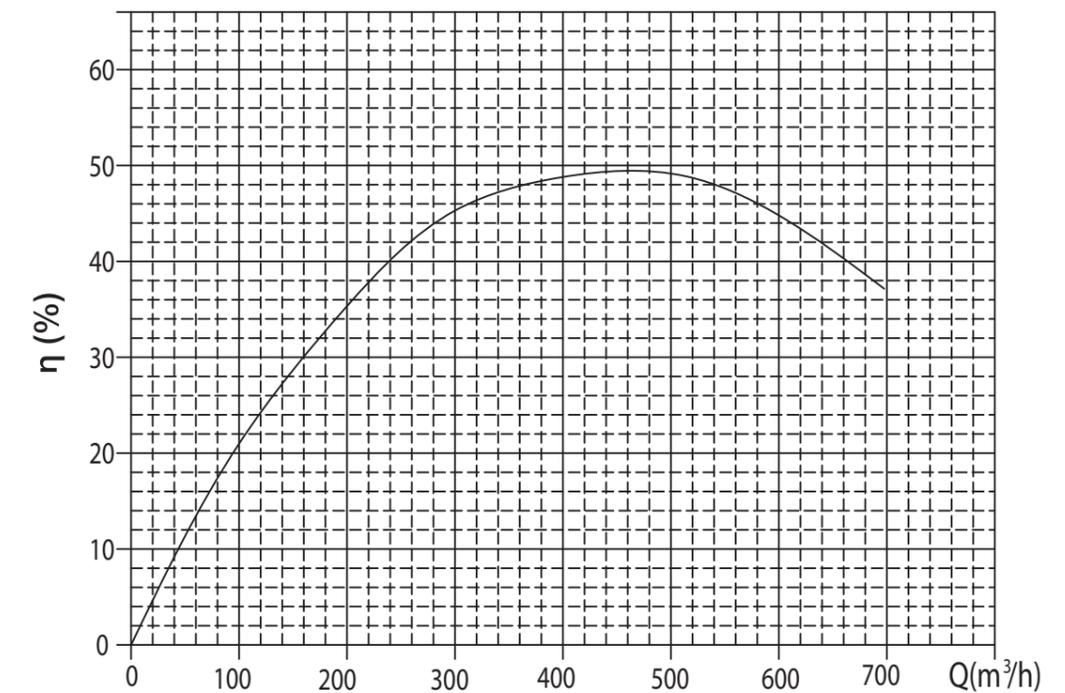
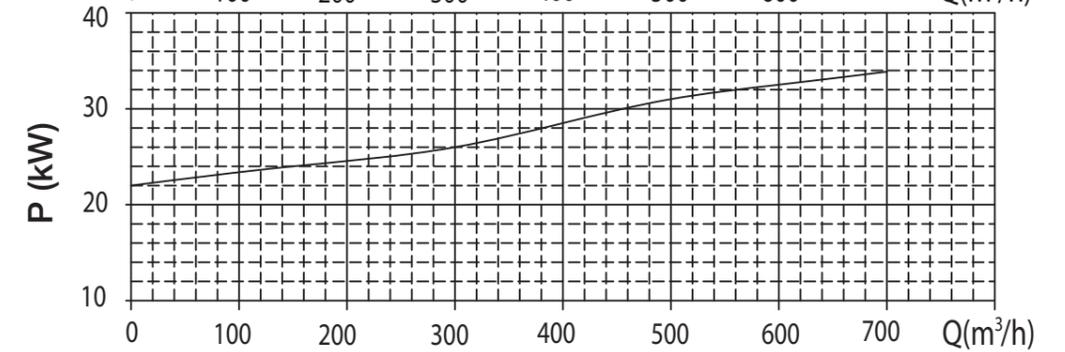
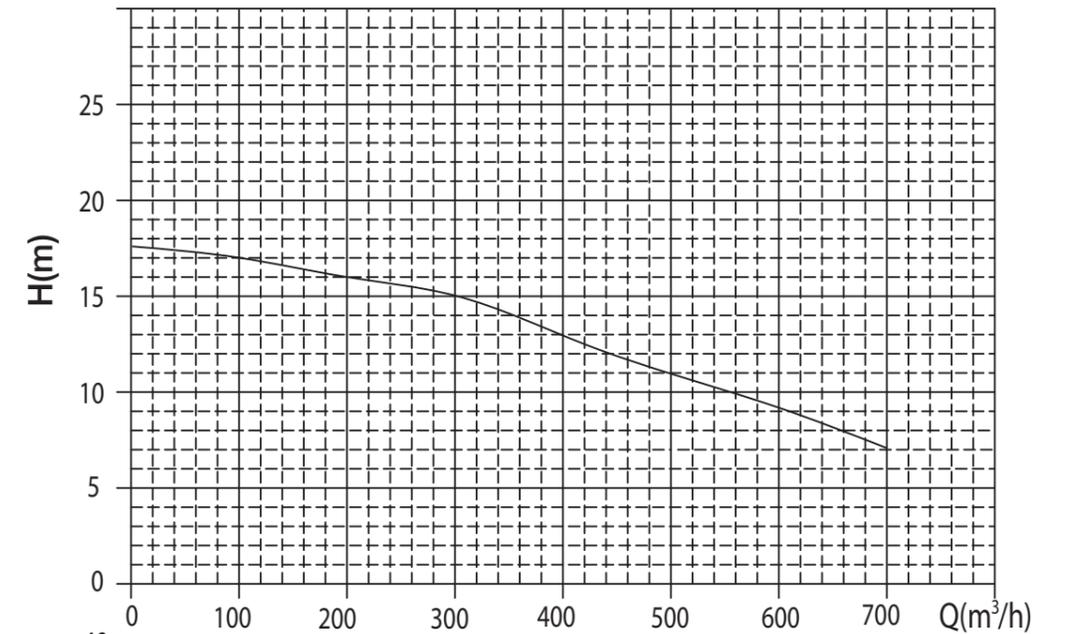
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# WF250 600-10/30

Performance curve

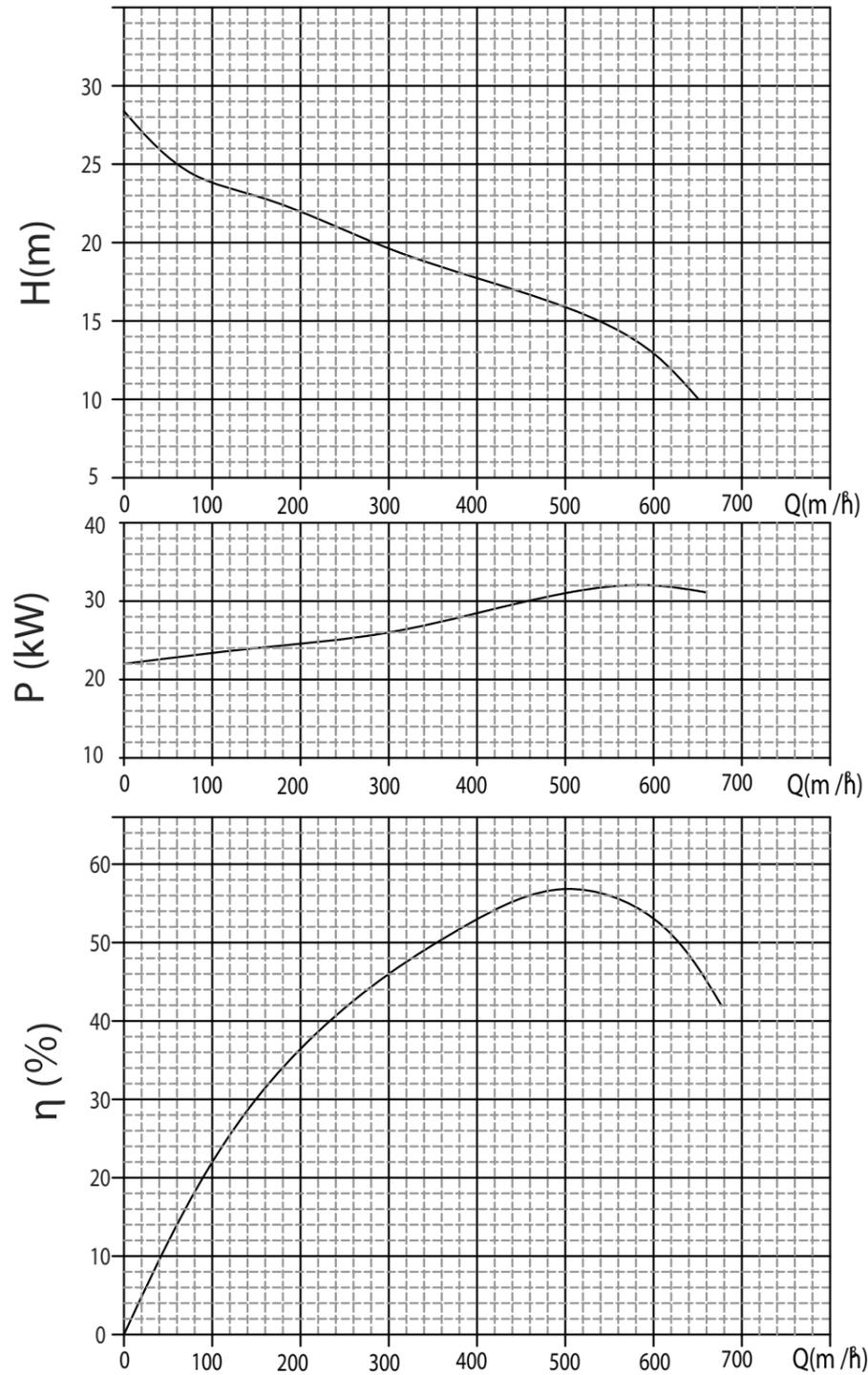
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# WF250 500-15/37

Performance curve

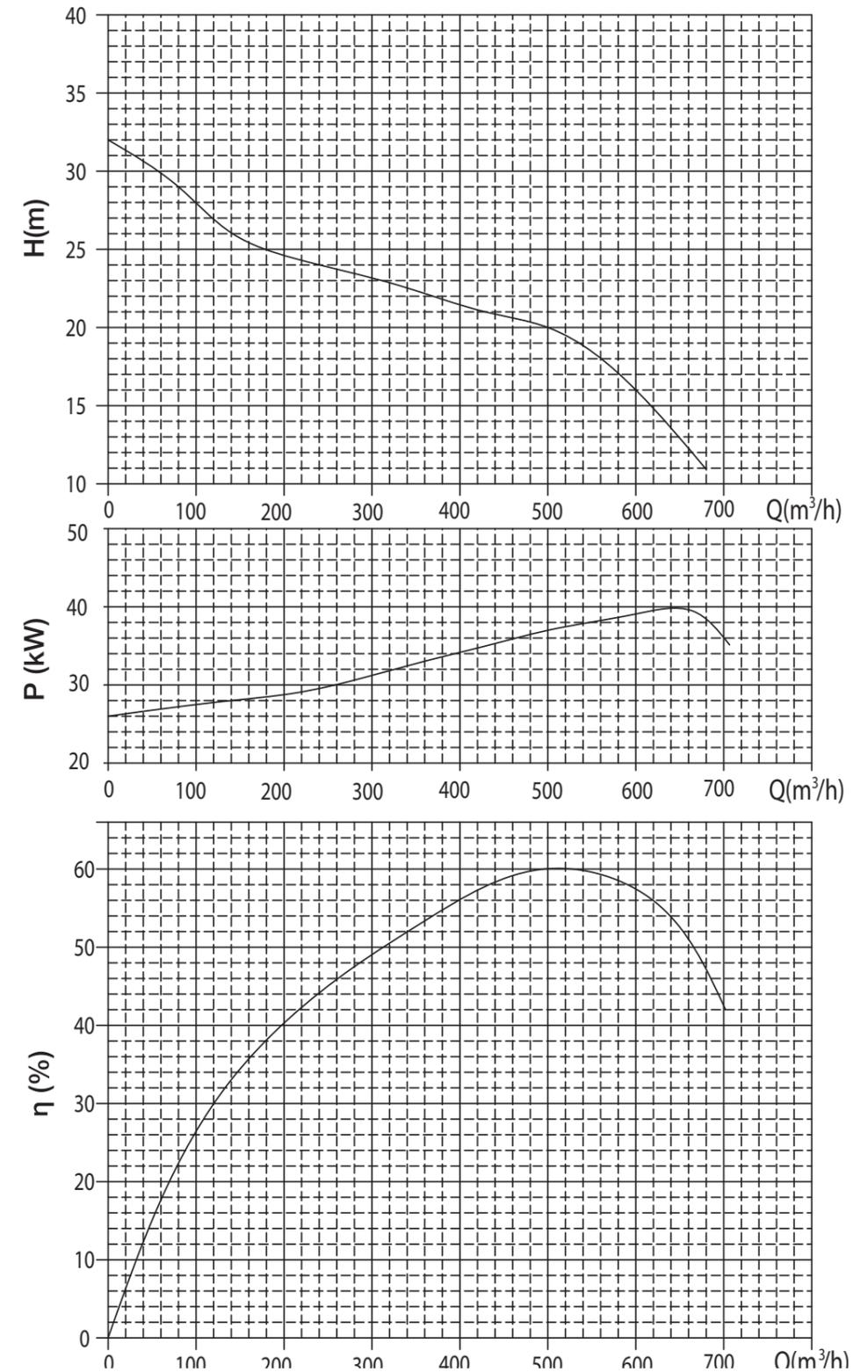
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# WF250 600-15/45

Performance curve

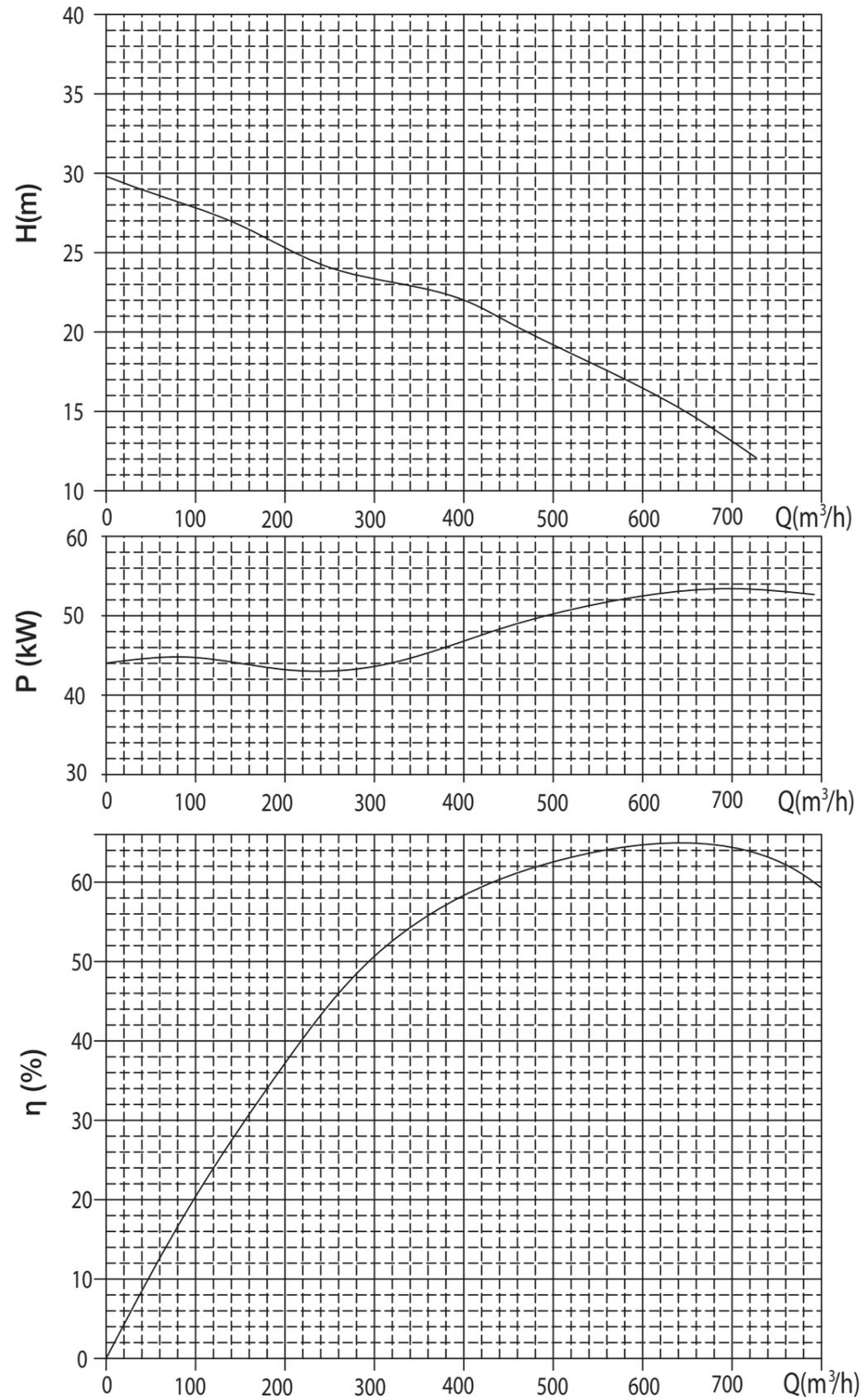
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# WF250 650-15/55

Performance curve

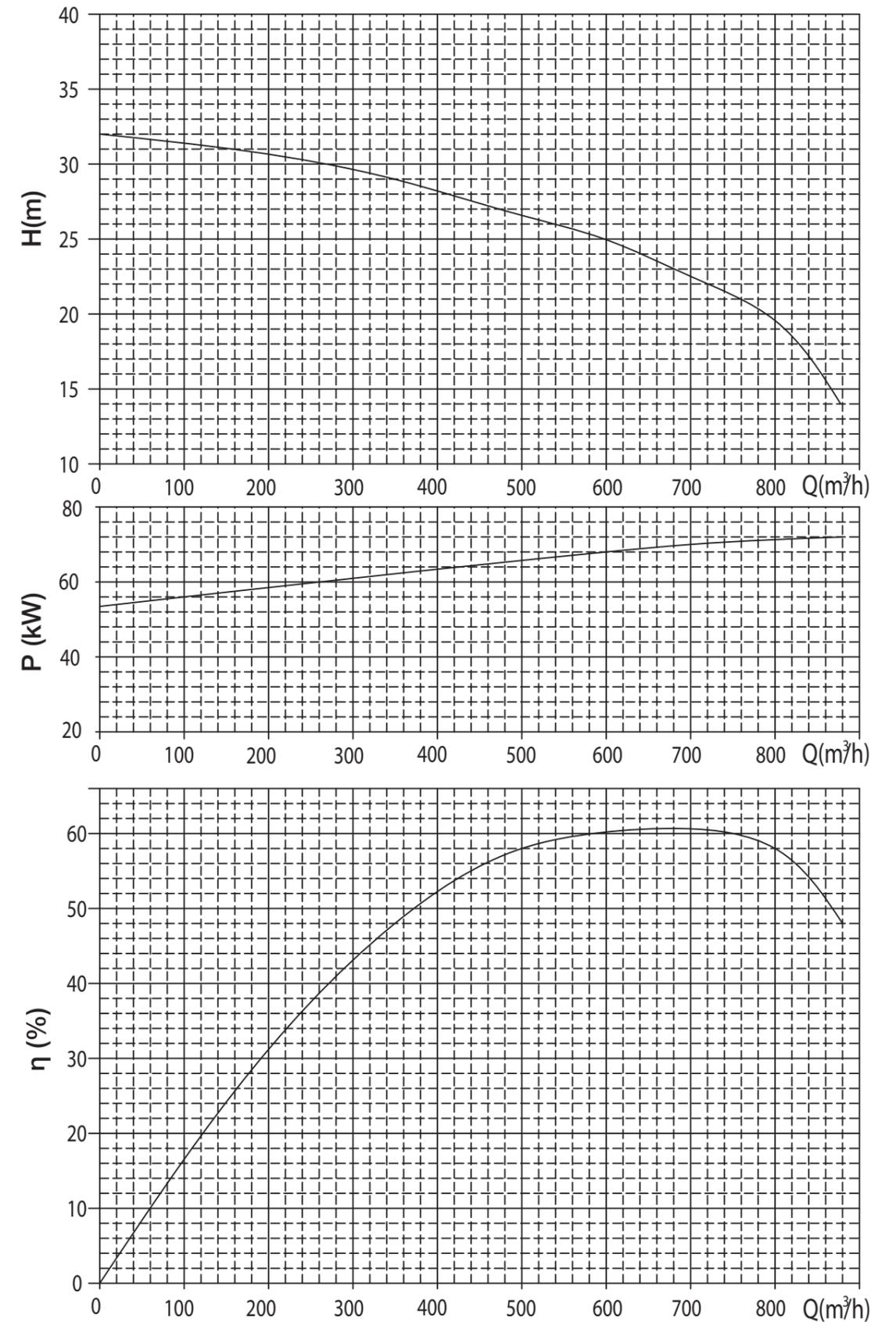
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# WF250 600-25/75

Performance curve

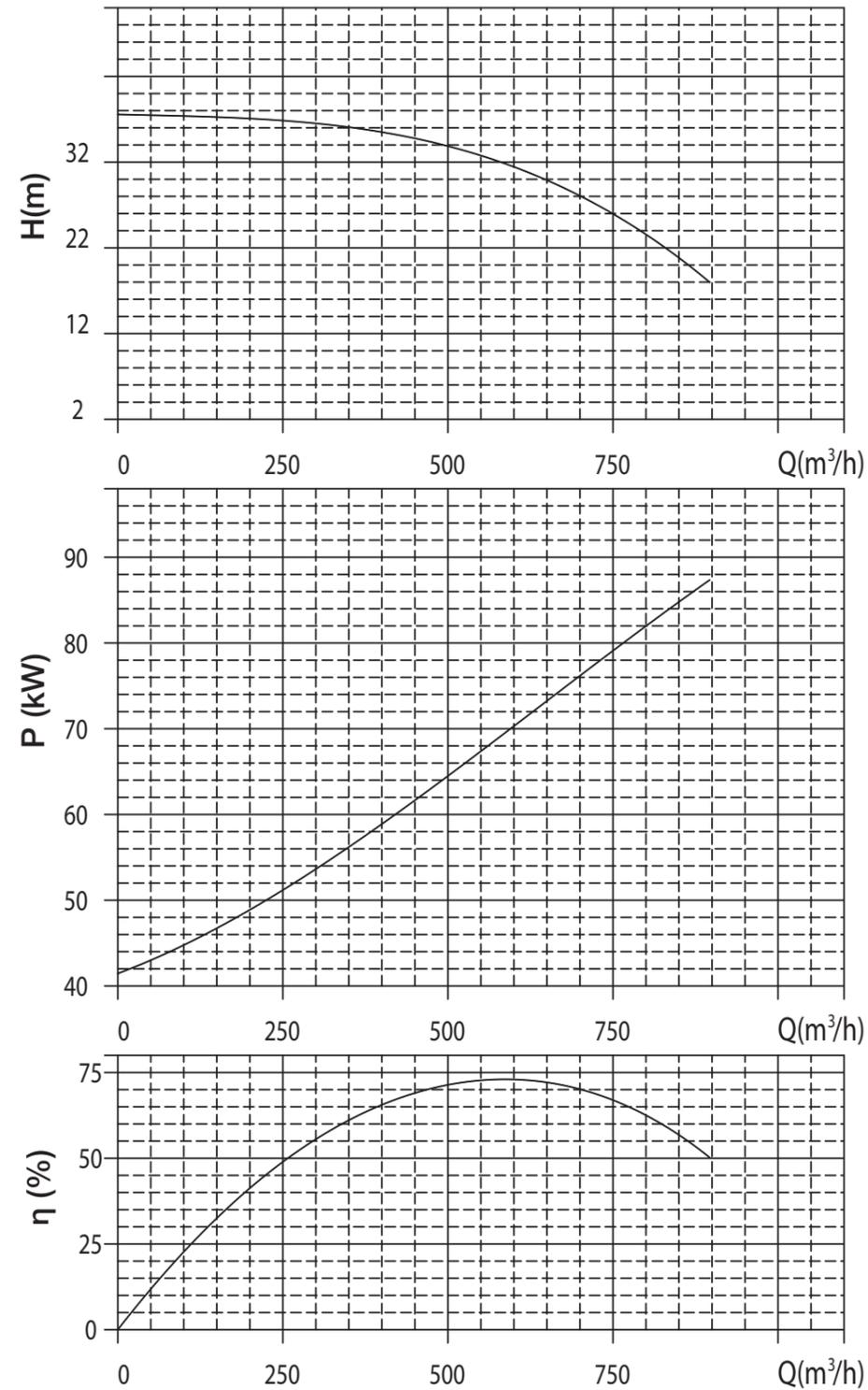
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# WF250 500-30/90

Performance curve

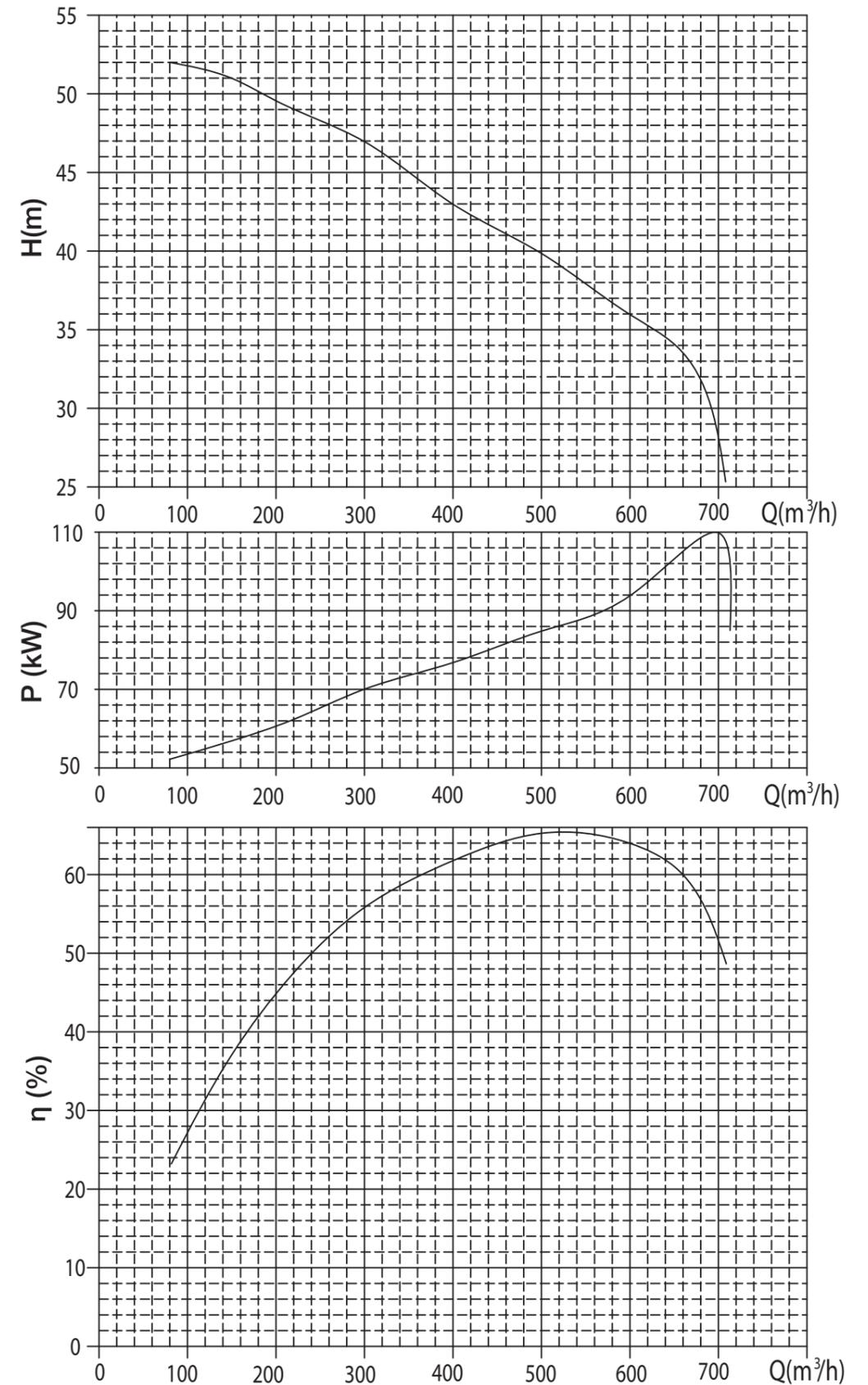
980 r/min



# WF250 600-35/110

Performance curve

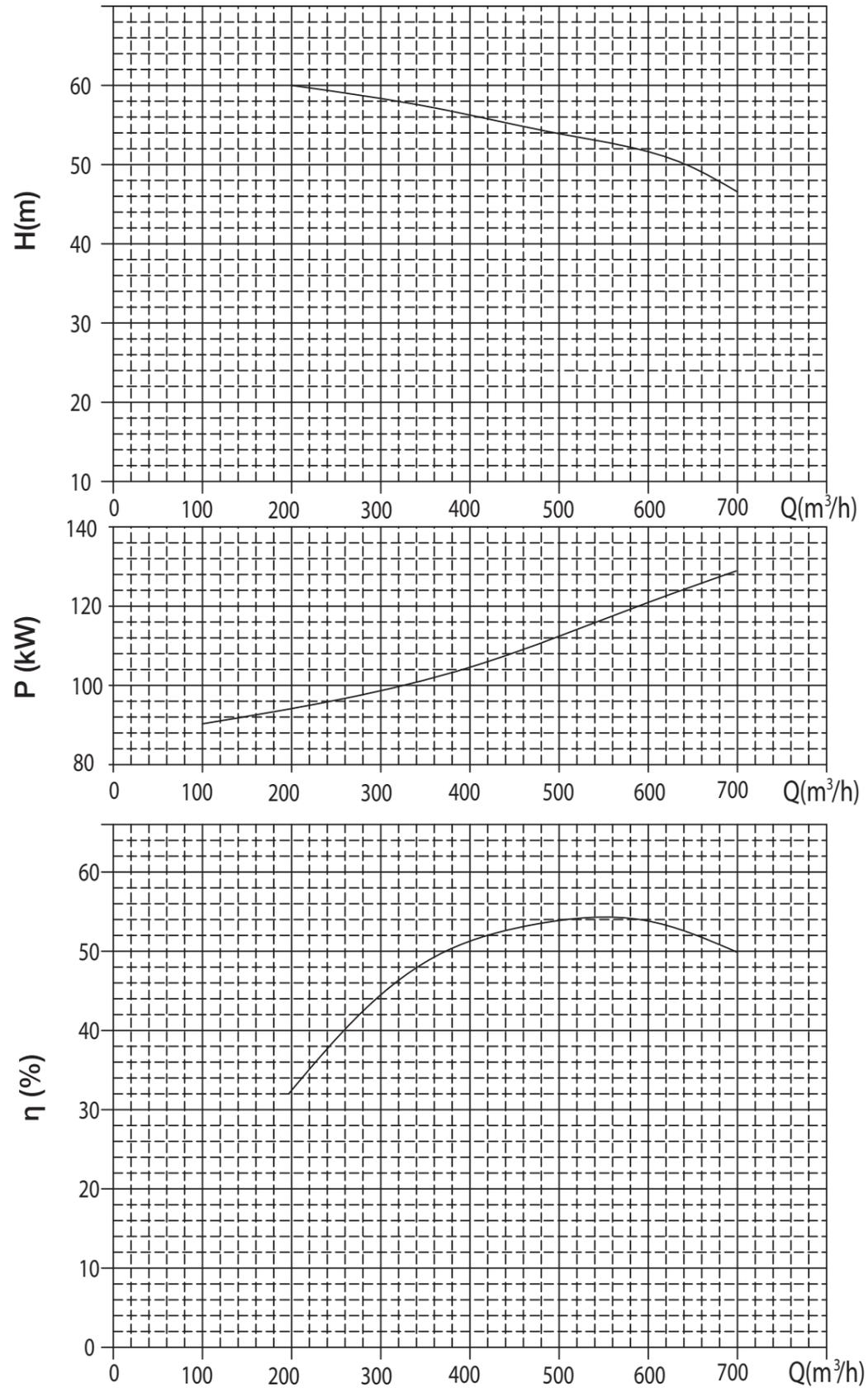
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# WF250 650-50/132

Performance curve

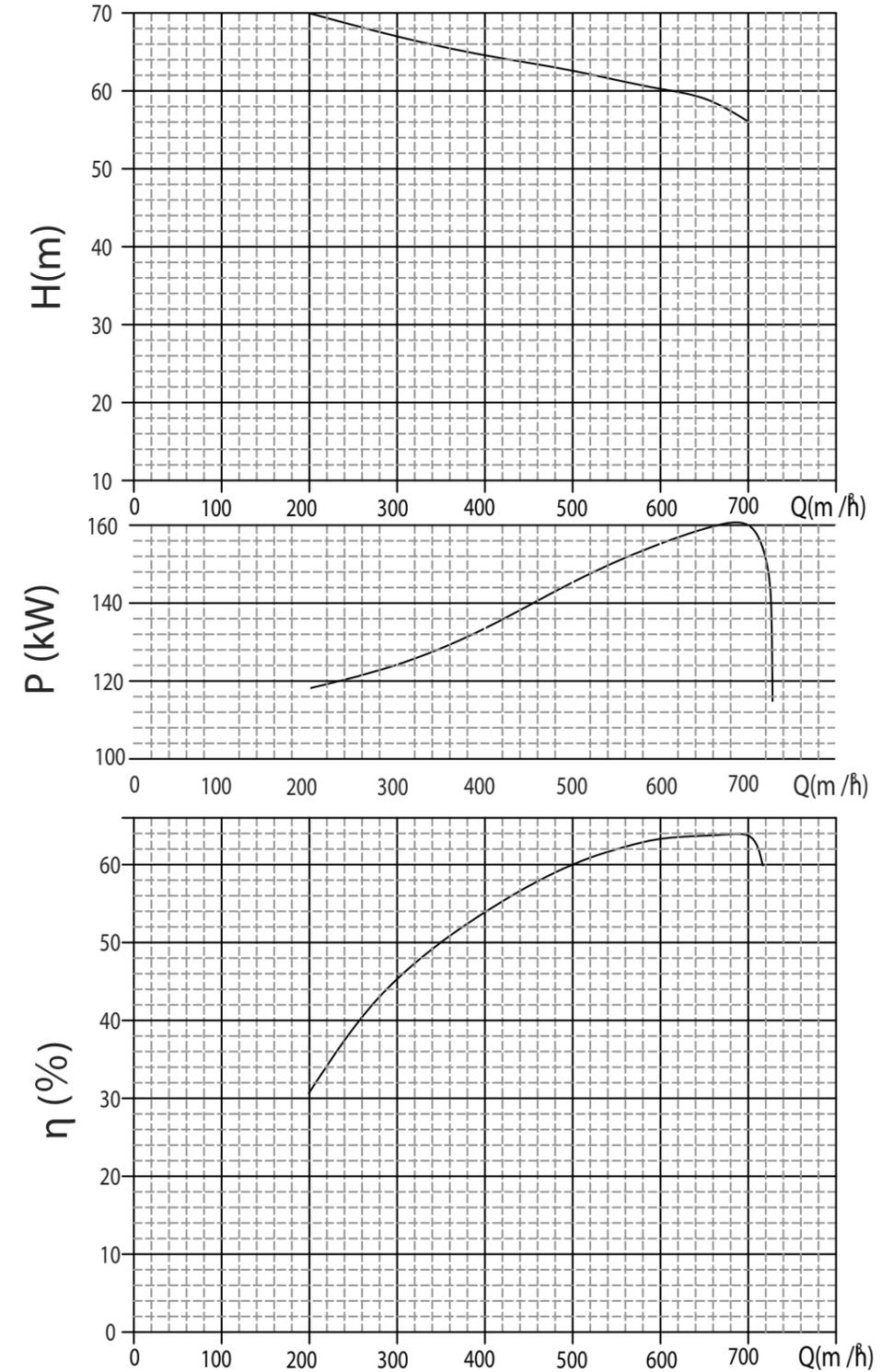
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# WF250 600-60/160

Performance curve

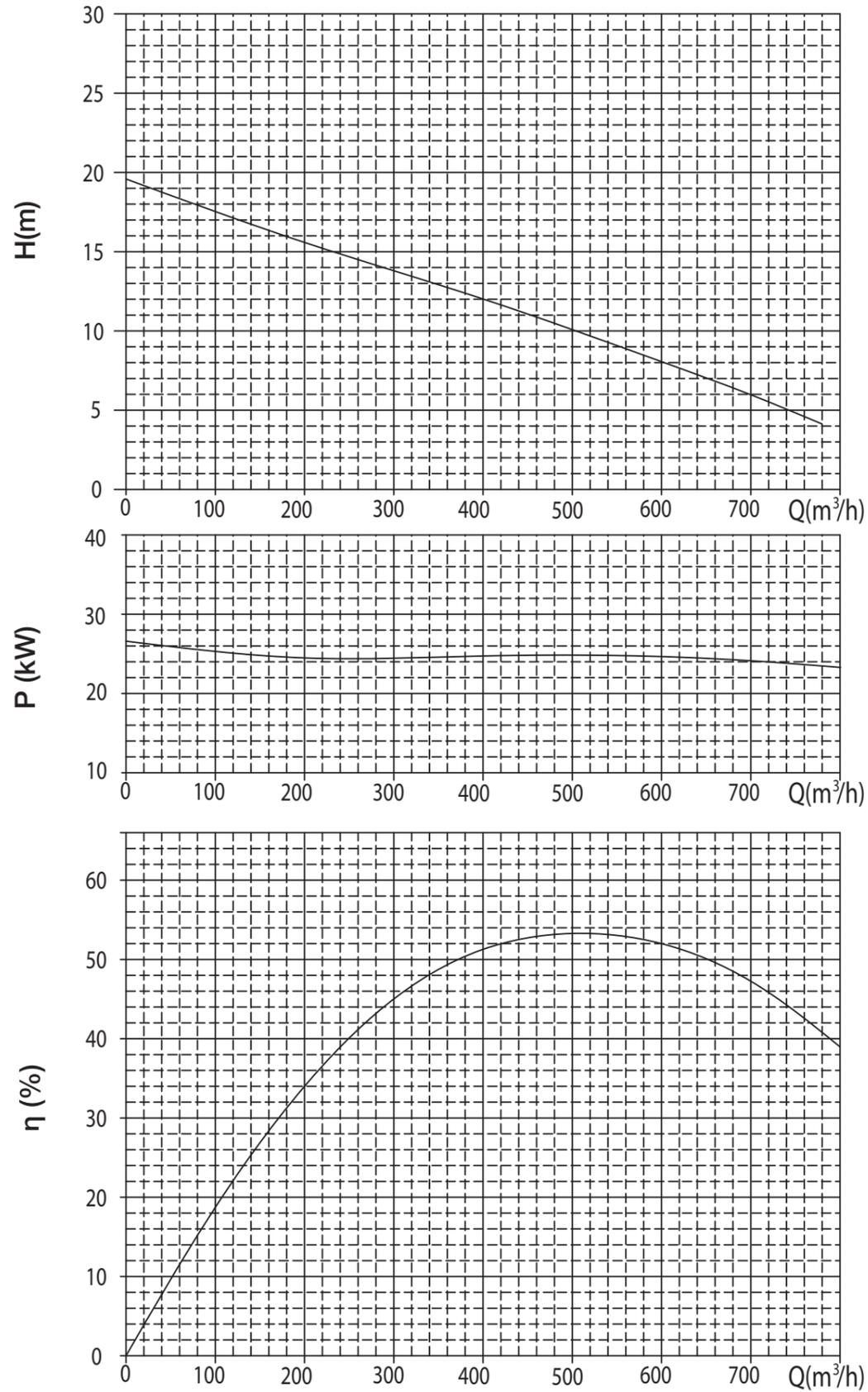
1450 r/min



# WF 300 600-7/22

Performance curve

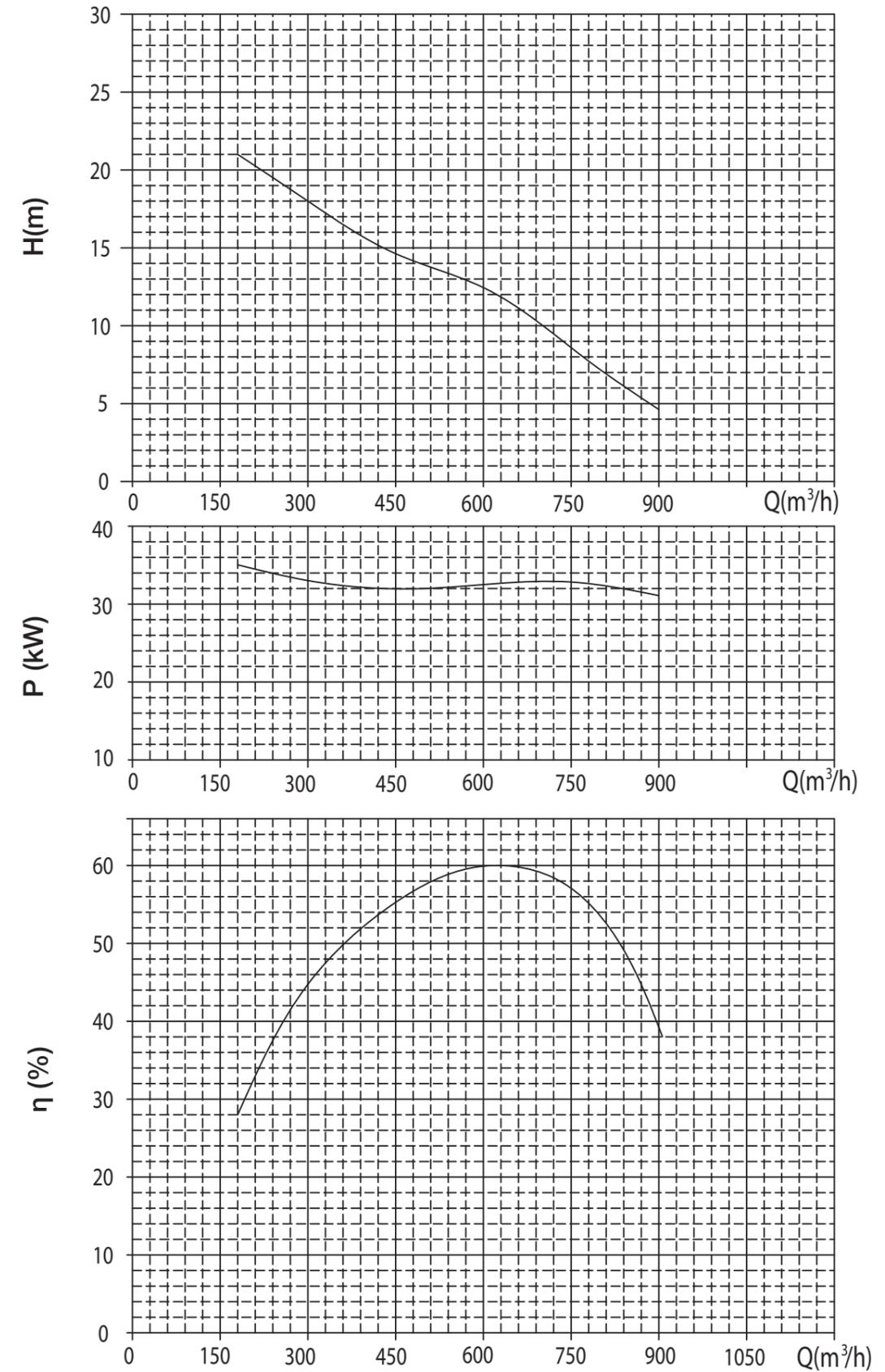
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# WF 300 750-7/30

Performance curve

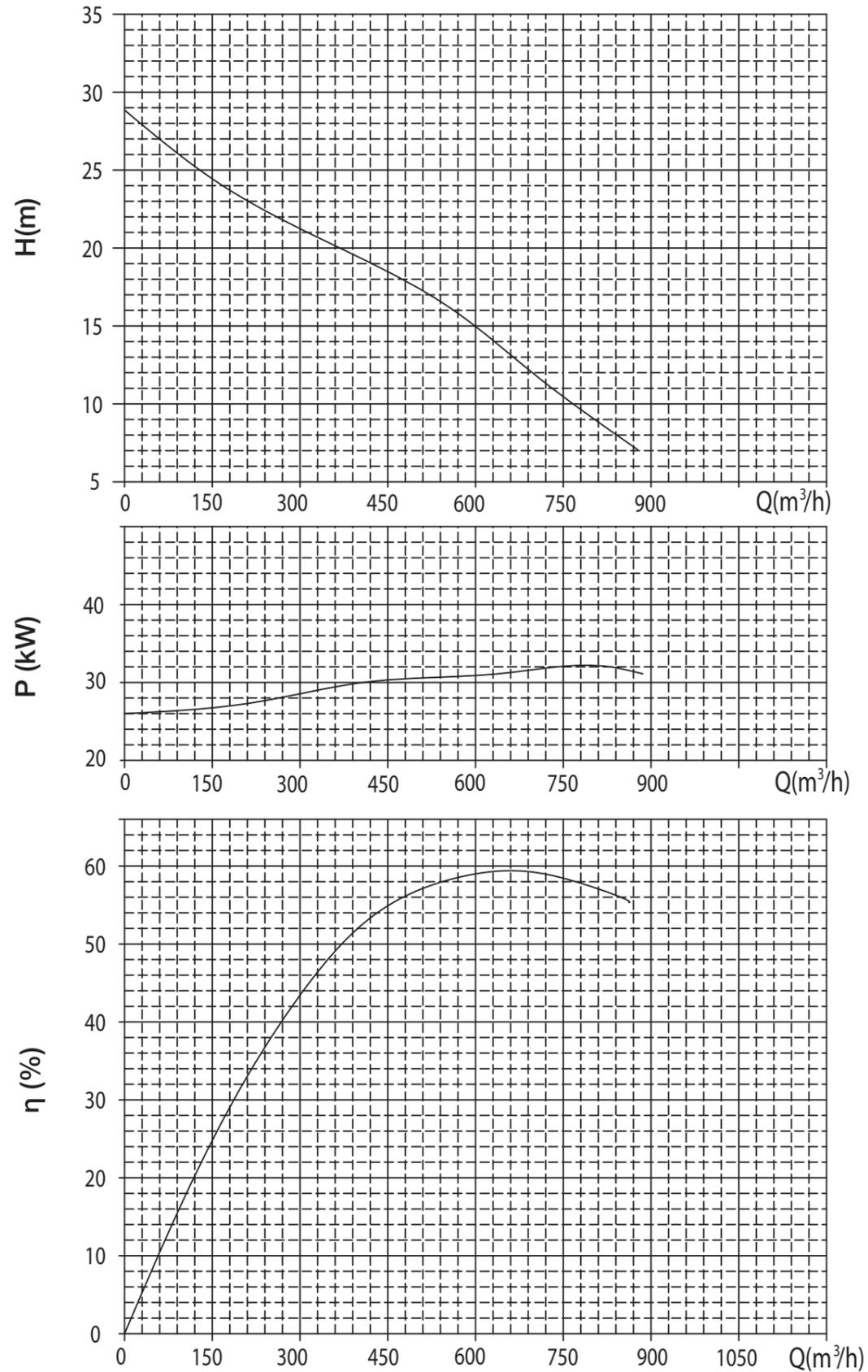
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# WF 300 750-10/37

Performance curve

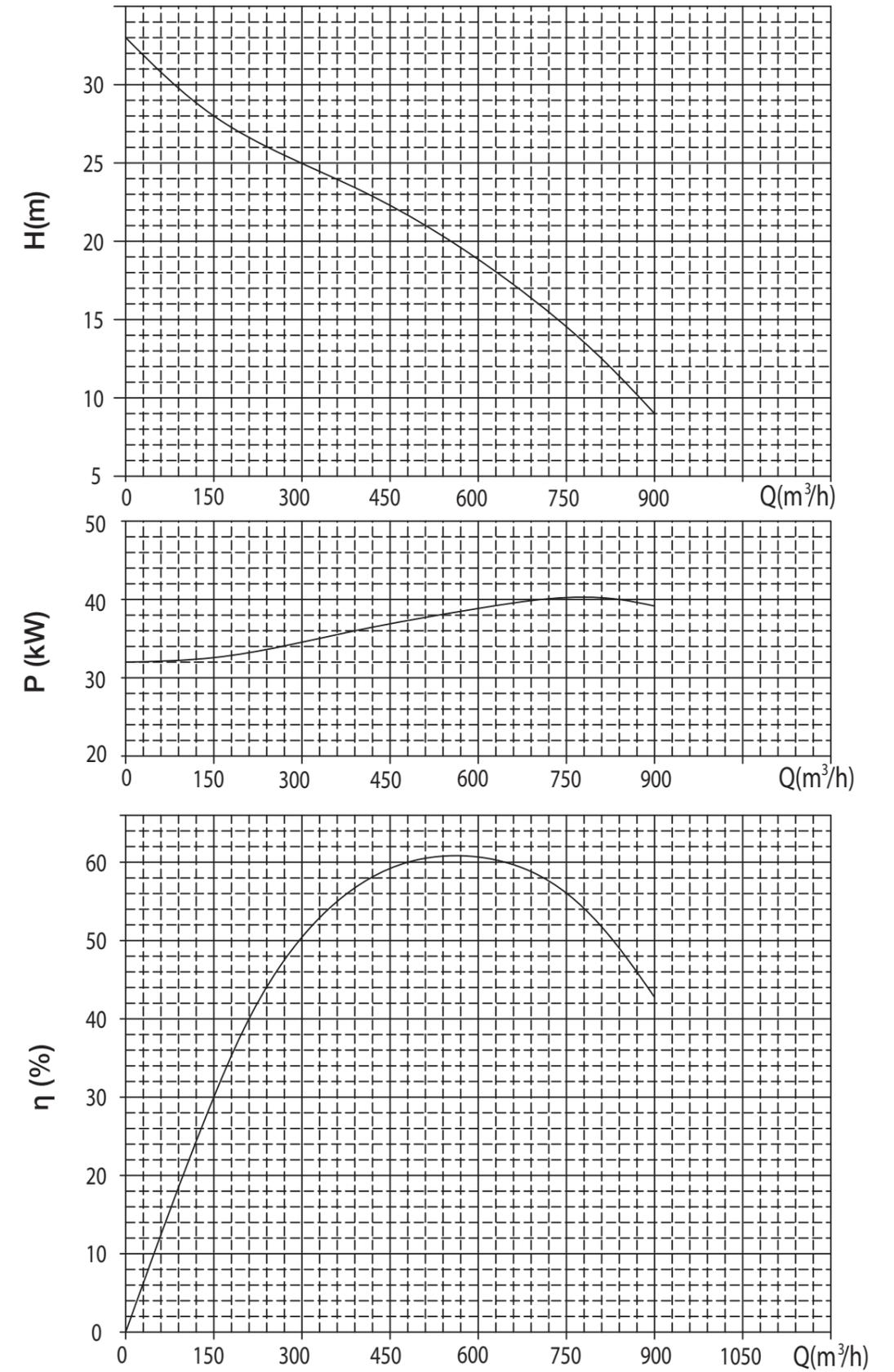
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# WF 300 750-15/45

Performance curve

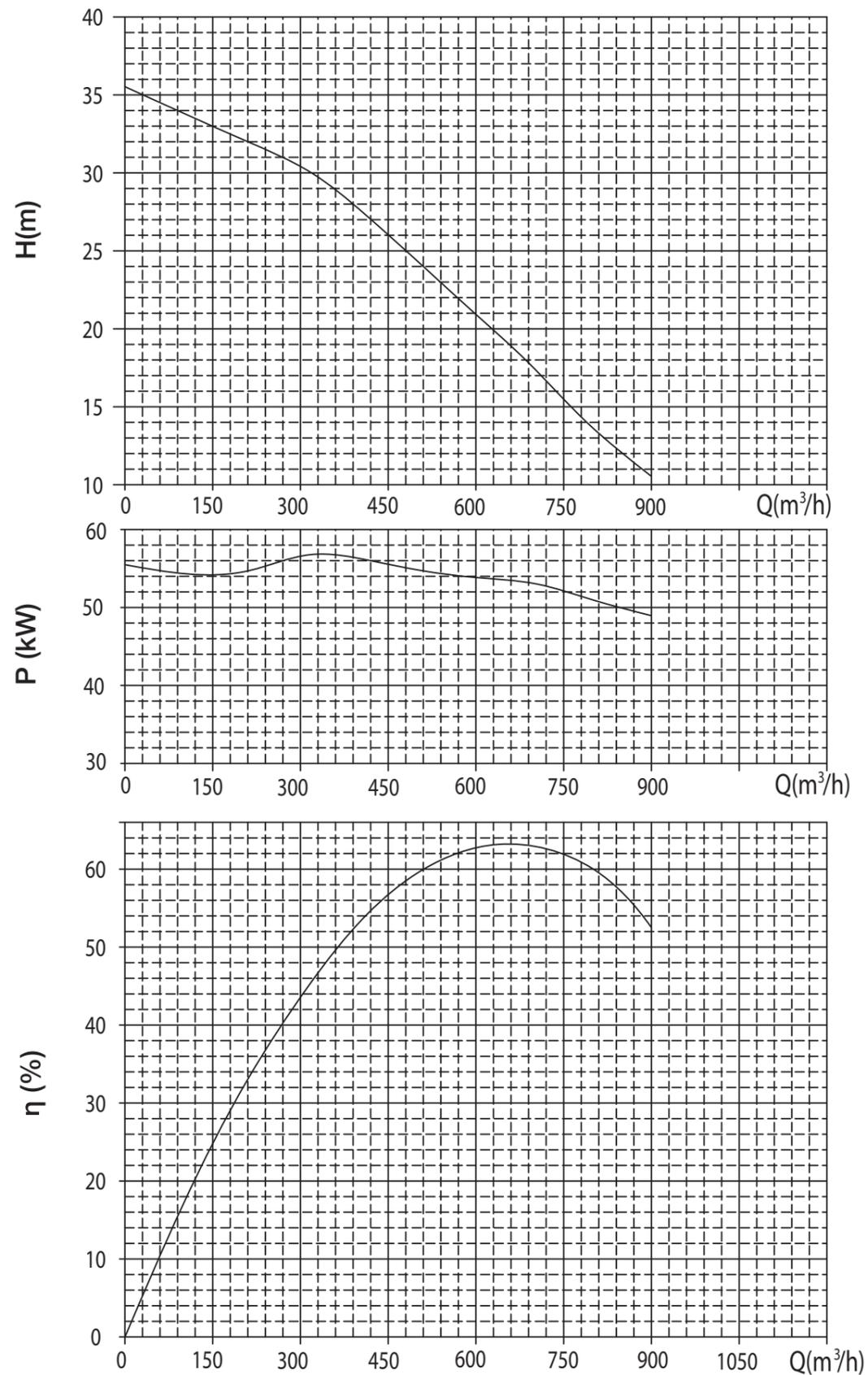
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# WF 300 600-20/55

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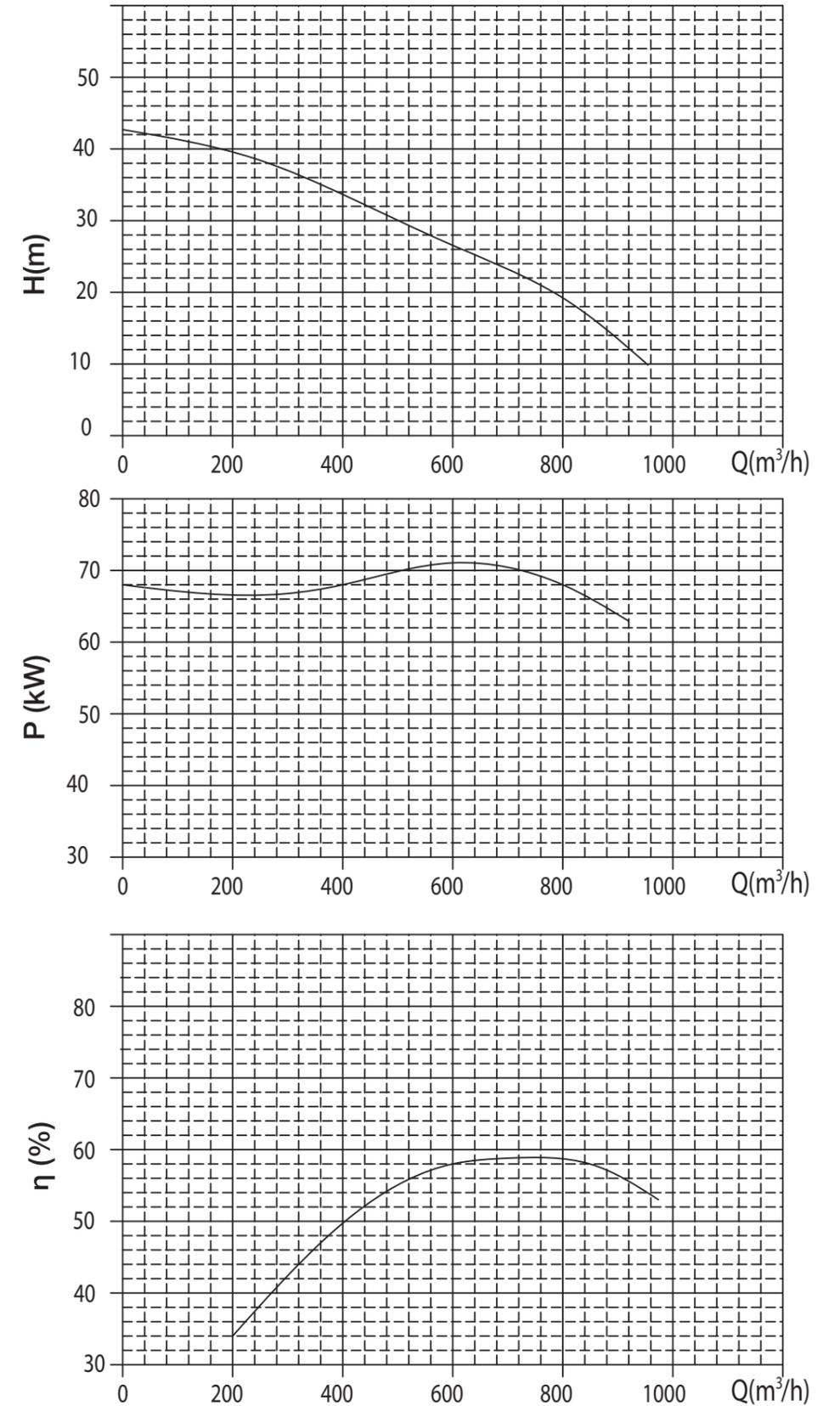
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# WF 300 800-20/75

Performance curve

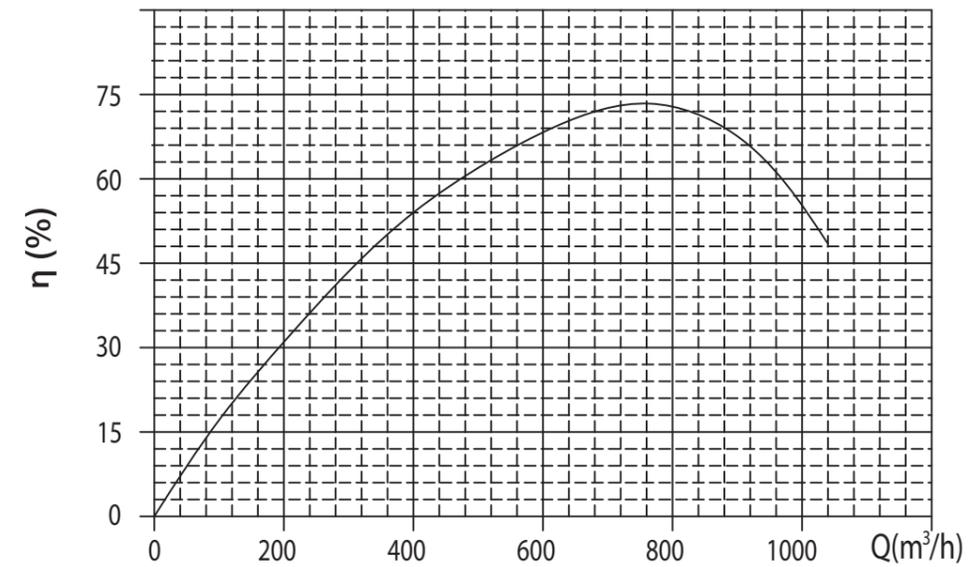
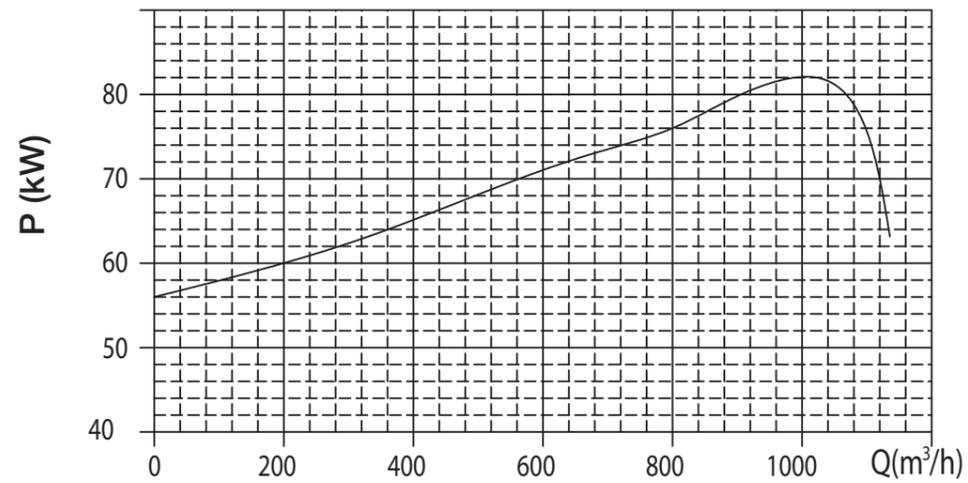
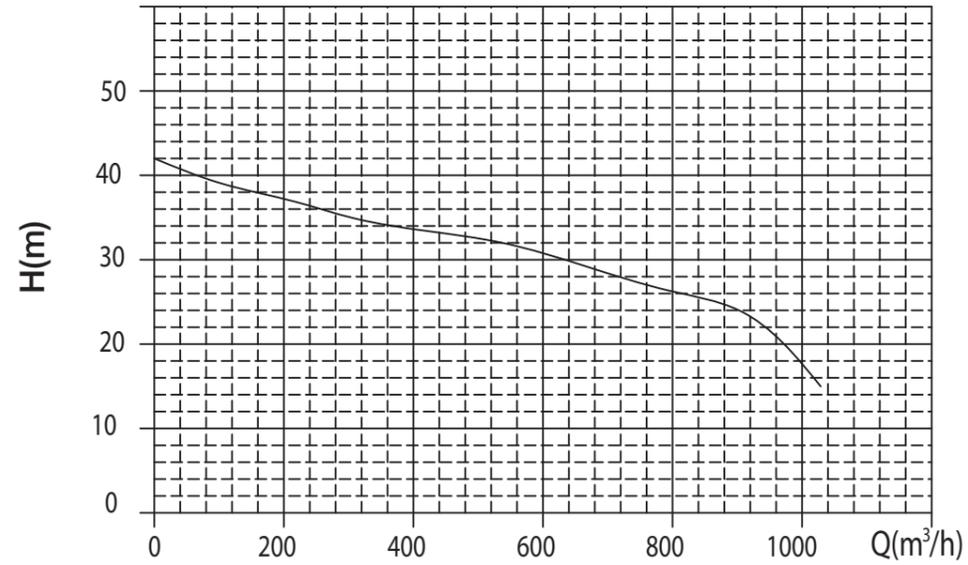
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# WF 300 800-25/90

Performance curve

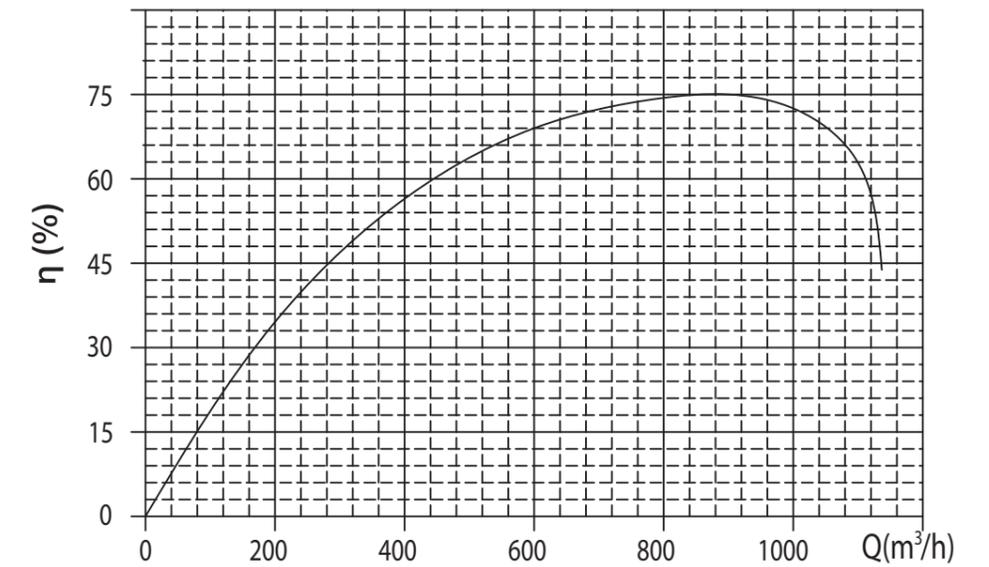
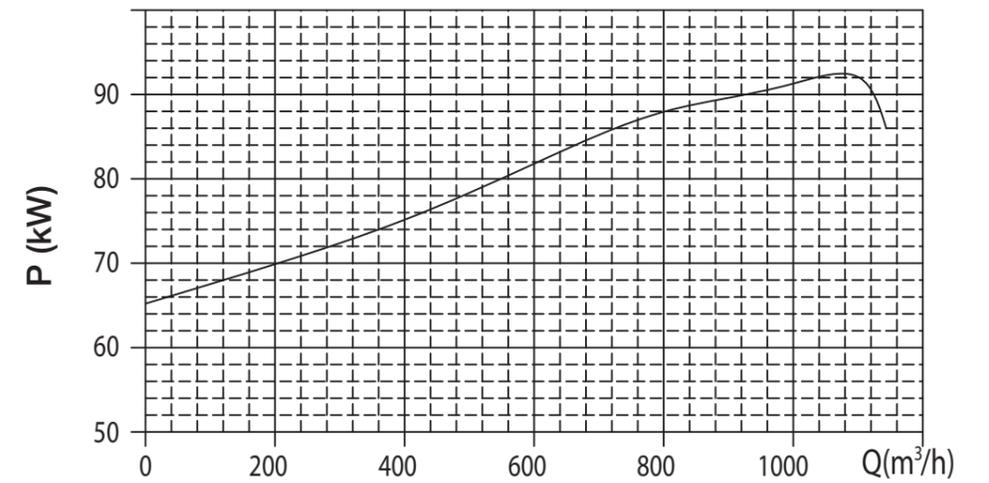
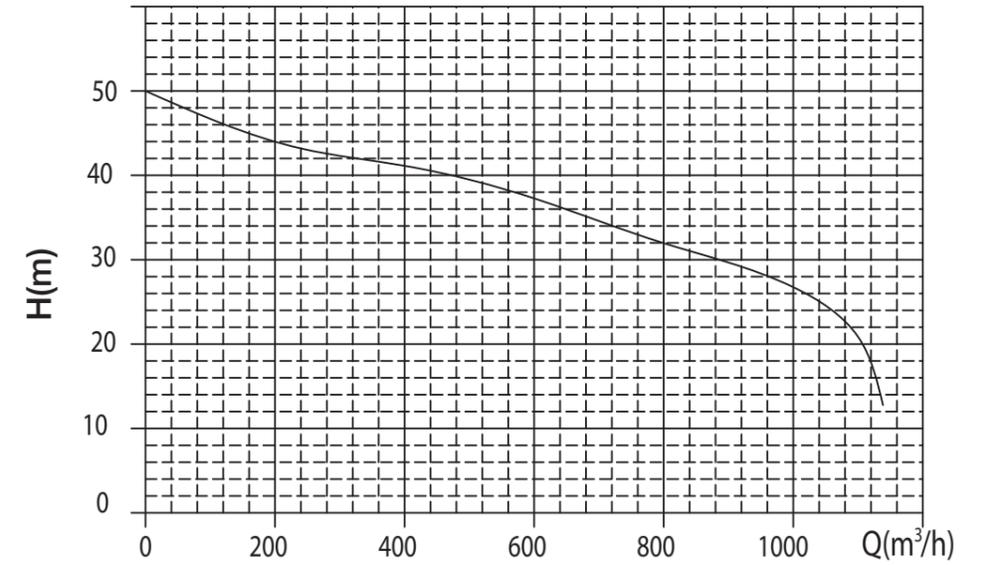
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# WF 300 800-30/110

Performance curve

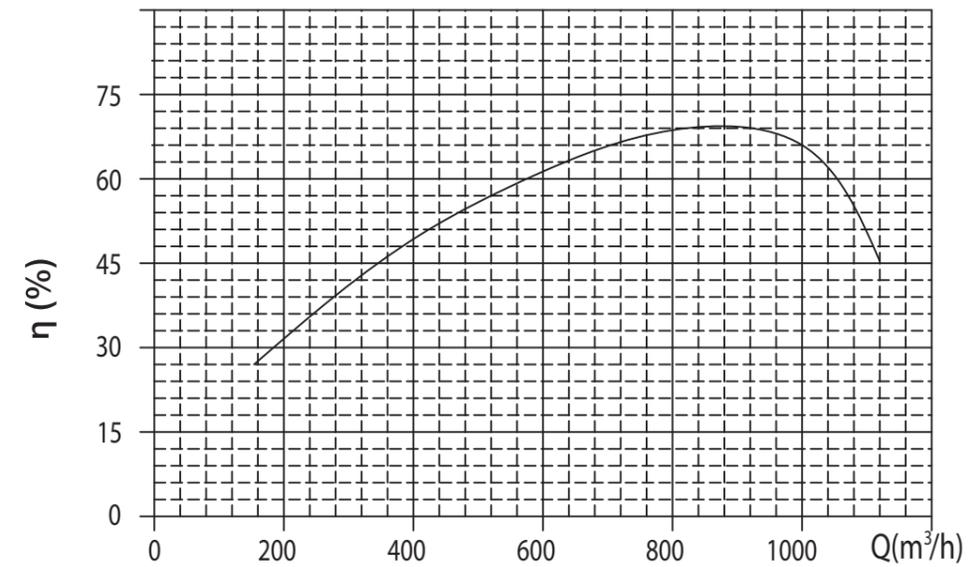
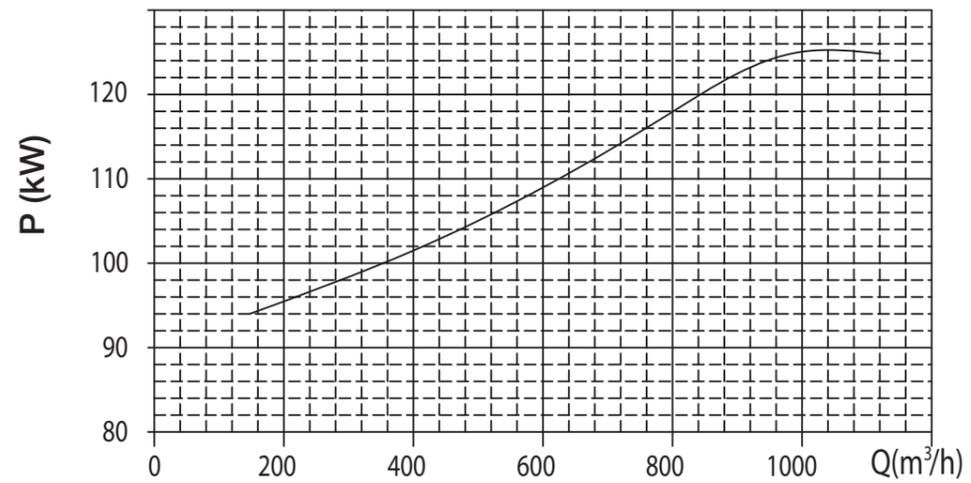
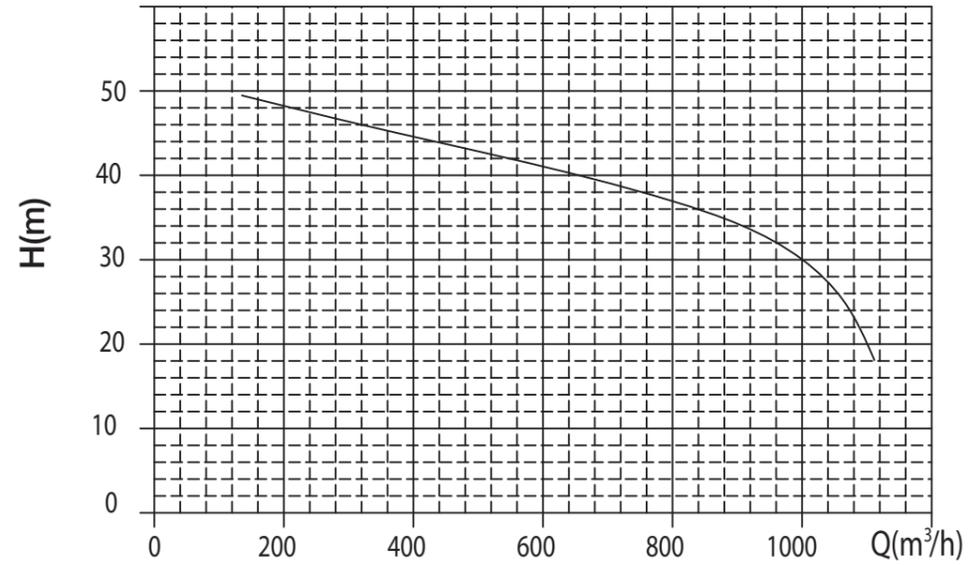
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# WF 300 800-35/132

Performance curve

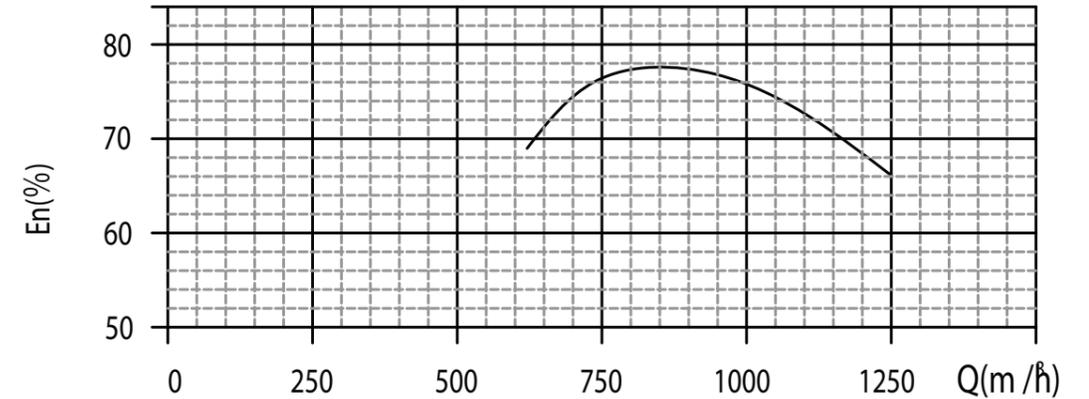
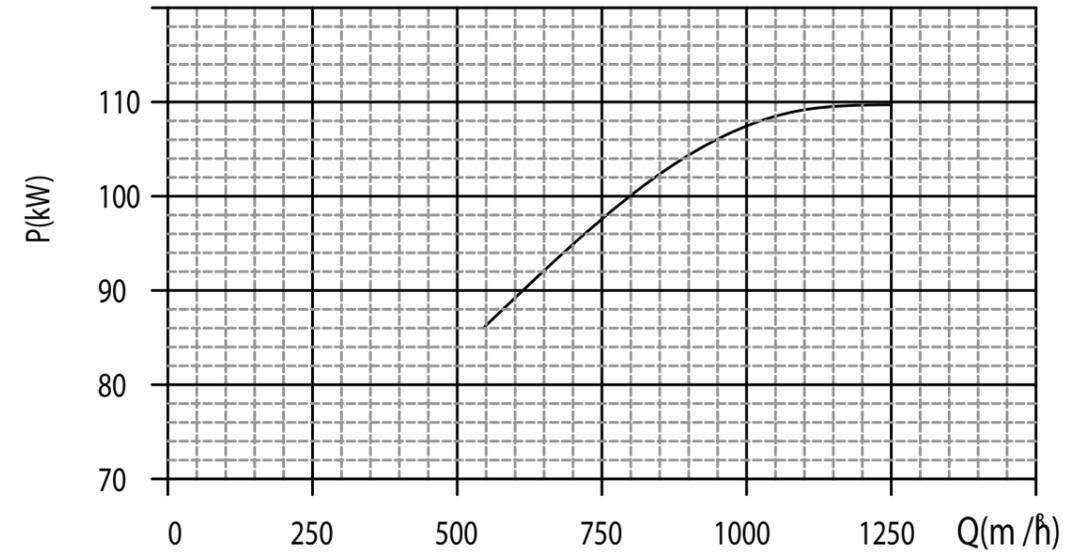
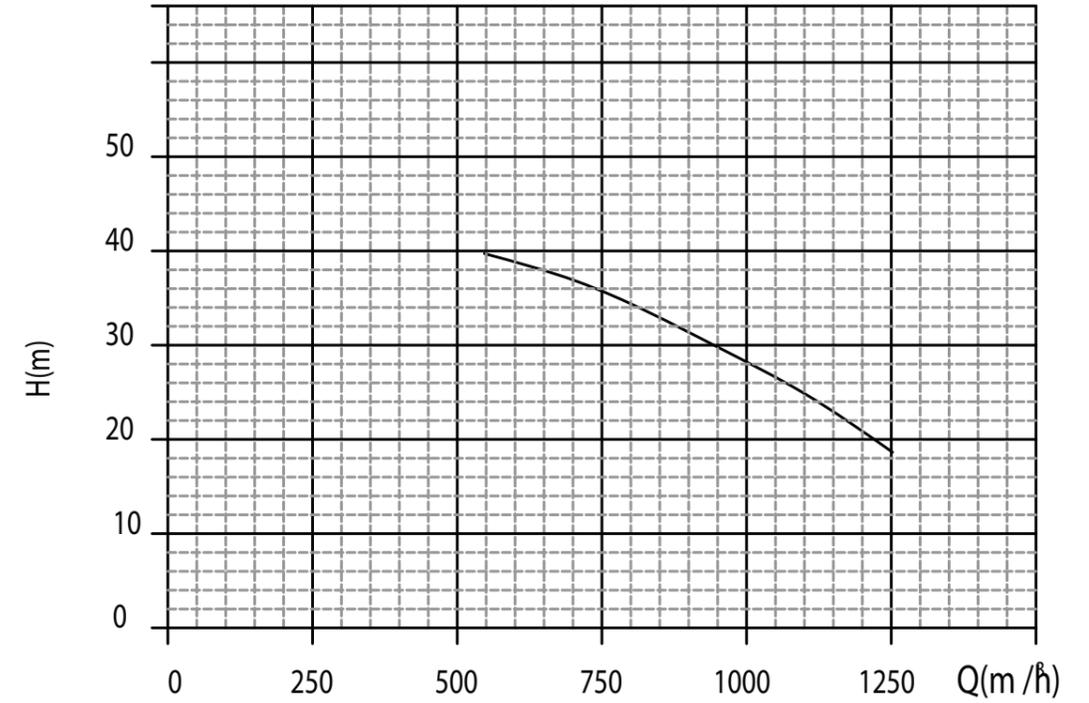
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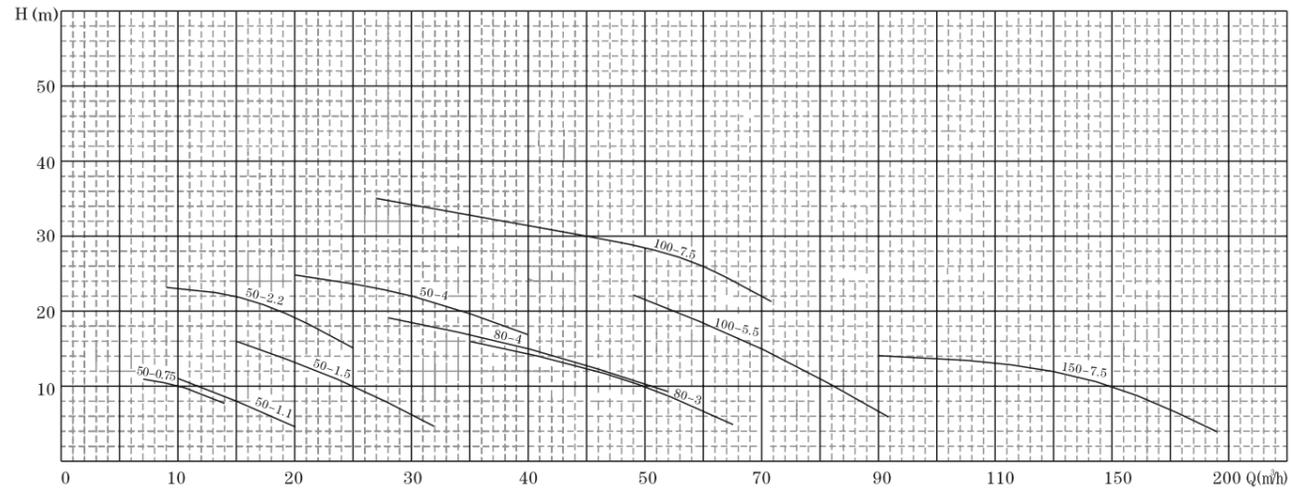
# WF300 950-29/110

Performance curve

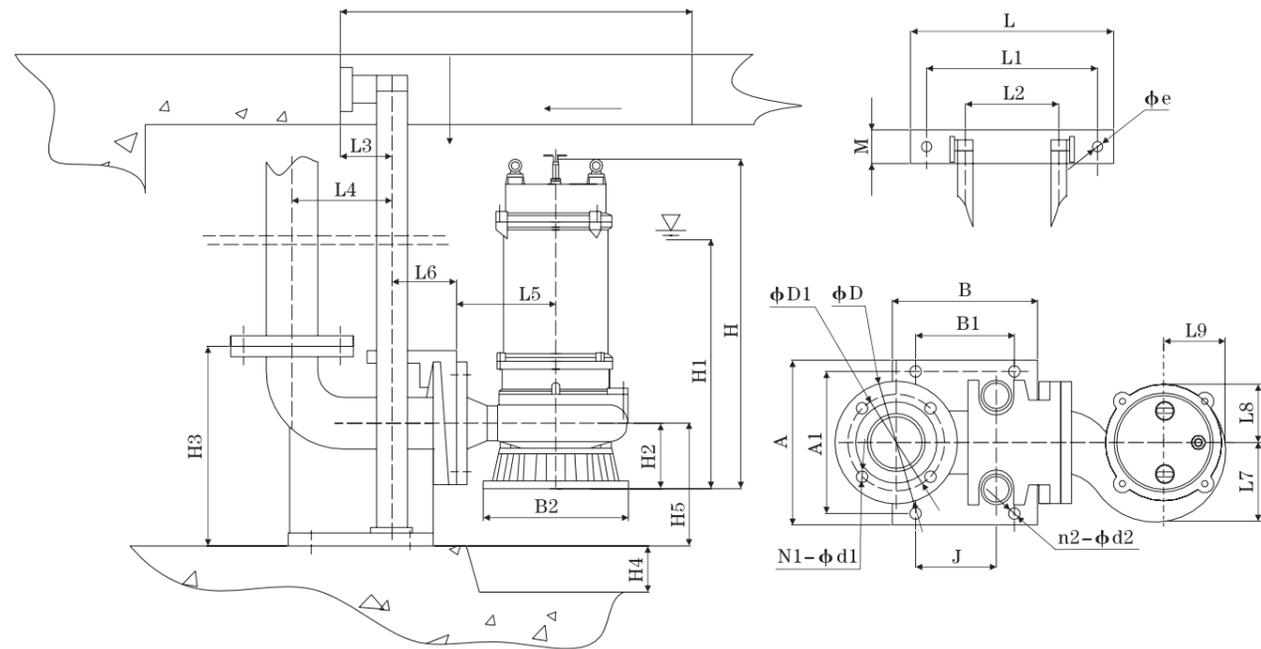
950 r/min



## Performance curve



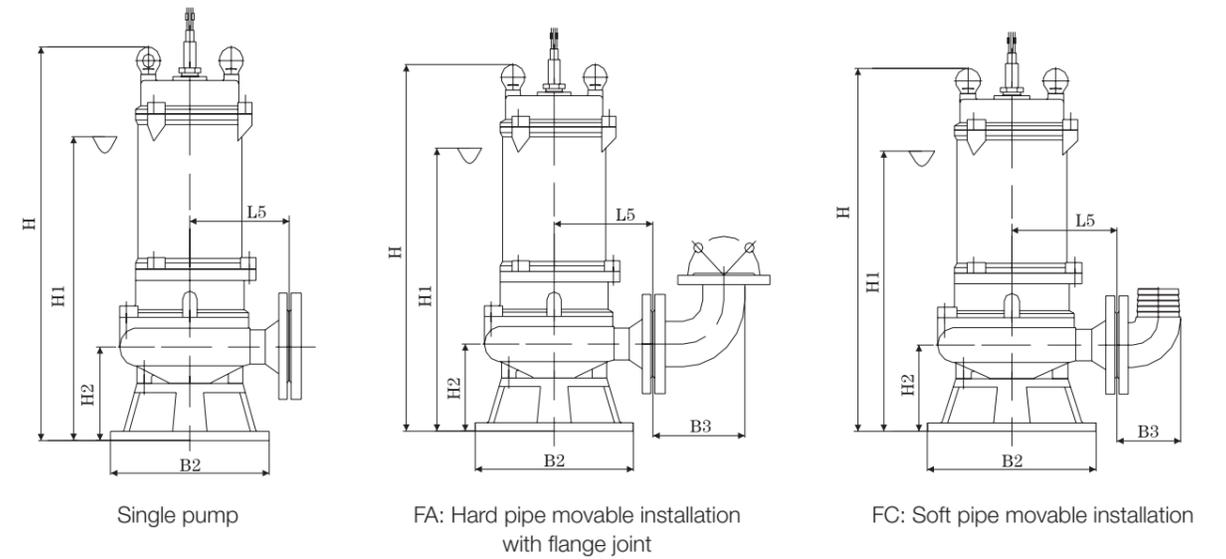
## FB: Fixed autocoupling device installation



## Coupling device dimensions

N°	Diameter	Flange connection			Coupling base dimension (mm)										E							
		D	D1	N1-ϕd1	A	A1	B	B1	J	n2-ϕd2	H3	H4	H5	L		L1	L2	M	ϕd	L3	L4	L6
1	WG50	140	110	4-ϕ14	197	168	208	130	120	4-ϕ16	250	100	165	265	216	110	42	ϕ14	65	135	90	550x550
2	WG65	160	130	4-ϕ14	238	190	252	155	135	4-ϕ16	265	100	170	280	235	125	50	ϕ14	70	185	85	650x600
3	WG80	190	150	4-ϕ19	255	220	225	153	125	4-ϕ18	310	100	190	315	265	145	53	ϕ14	80	155	100	650x600
4	WG100	210	170	4-ϕ19	293	265	258	175	140	4-ϕ18	350	100	235	365	305	170	55	ϕ15	100	200	110	650x600
5	WG150	265	225	4-ϕ19	400	300	410	300	210	4-ϕ25	485	150	305	410	260	285	60	ϕ15	100	300	190	1300x900

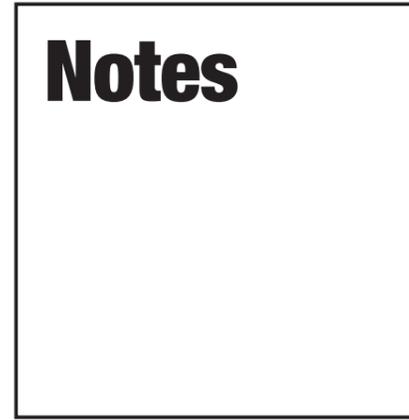
## Movable installation



## Dimensions

N°	Model	Outlet Dia DN	Flowrate Q m³/hr	Head m	Speed r/min	Power kW	Pump eff. %	Motor eff. %	Power factor cos ϕ	Rated Current A	Solid passage mm	Dimension (mm)									Kg
												H	H1	H2	B2	B3	L5	L7	L8	L9	
1	WG50 10-10/0.75	50	10	10	2950	0.75	58	65.0	0.82	1.8	25	470	350	110	200	190	135	85	75	80	26
2	WG50 15-8/1.1		15	8		11	57	69.0	0.83	2.6	25	470	350	110	200	190	135	95	80	88	28
3	WG50 25-7/1.5		25	10		1.5	66	72.0	0.83	3.5	25	510	390	135	240	190	155	105	90	95	31
4	WG50 15-20/2.2		15	20		2.2	56	73.0	0.84	4.9	25	540	430	130	270	190	160	110	102	106	37
5	WG50 30-22/4	65	30	22		4	65	79.0	0.87	8.1	25	620	510	154	320	190	160	125	115	120	61
6	WG80 42-12/3	80	50	10		3	68	78.5	0.87	6.4	30	567	429	140	240	240	170	121	96	108	46
7	WG80 40-15/4	80	40	15		4	65	79.5	0.87	8.1	30	660	550	160	320	240	200	140	126	132	74
8	WG100 70-15/5.5	100	70	15		5.5	71	81.5	0.88	11.0	30	690	570	170	320	300	235	150	130	140	102
9	WG100 45-30/7.5	100	45	30		7.5	67	82.5	0.88	15.0	30	653	525	145	320	300	235	152	130	152	108
10	WG150 130-8/7.5	150	130	8		7.5	72	82.5	0.88	15.0	40	701	560	174	370	400	260	175	150	160	112

# Notes



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# hydroo®

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