ПОГРУЖНЫЕ КАНАЛИЗАЦИОННЫЕ НАСОСЫ SSC

aikonrussia.ru

aikon

Aikon – суббренд компании CNP, введенный для расширения модельного ряда продукции. Помимо насосного ряда, компания Aikon имеет огромный ассортимент комплектующих для насосов и устройств автоматического управления электродвигателями.

Компания Aikon предлагает широкий спектр частотно-регулируемых приводов, технологии электроснабжения и автоматизации, датчики, контроллеры и промышленные облачные платформы. В дополнение к традиционному управлению электродвигателями продукты и системы Aikon также широко используются в специальных отраслях промышленности, таких как высокоскоростные вентиляторы, синхронные двигатели с постоянными магнитами, энергосбережение и накопление энергии, стендовые испытания, источники питания с переменной частотой и источники питания постоянного тока.

Благодаря исследованиям и разработкам в России, контроллеры для управления насосами компании Aikon отлично себя зарекомендовали в ЕС, Южной и Юго-Восточной Азии, на Ближнем Востоке, в Африке, а также в Центральной Америке.

Строгая концепция продукта Aikon постоянно совершенствует продукты и решения для клиентов. Компания расположена в Шанхае, удобном порту и центре распределения грузов, чтобы облегчить быструю доставку оборудования.

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Общие сведения

SSC – усовершенствованный электронасос для откачки сточных вод, с оптимизированной гидравлической частью, надежной конструкцией и системой защит, эти насосы совмещают в себе высокую эффективность и работоспособность в самых неблагоприятных условиях. Оптимизированная гидравлика: рабочее колесо, обеспечивающее высокую устойчивость против засорений, высокий гидравлический к.п.д. при больших подачах, стабильную работу без турбулентных завихрений.

Области применения

Насосы предназначены для применения в таких местах, как:

- Промышленные стоки;
- Сточные воды в системах автономной, ливневой канализации;
- Воды из колодцев, бассейнов, естественных и искусственных прудов перед очисткой;
- Стройки, промышленные предприятия, муниципальные проекты и др. системы очистки сточных вод;
- Транспортировка сточных вод в городскую канализационную систему;
- Поиск полезных ископаемых, шахты и др.; очистка сточных вод в промышленности, больницах и др.;
- Орошение, осушение болот в рыбоводческих хозяйствах.

Условия эксплуатации

- Источник питания: 50 Гц, 3x380 В.
- Температура перекачиваемой жидкости должна быть не выше 40°C, водородным показателем (pH) от 4,0 до 10, плотностью не более 1200 кг/м^3, массовой долей твёрдых механических примесей не более 2%.
- Минимальный уровень откачиваемой жидкости должен быть на уровне половины корпуса двигателя.
- Насос не предназначен для перекачки агрессивной жидкости или жидкости с большим содержание твердых и волокнистых частиц.
- Максимальный диаметр прохода твердых частиц не должен превышать указанного в технических характеристиках.

Маркировка

150$_{[1]}$ SSC$_{[2]}$ 180$_{[3]}$ – 25$_{[4]}$ – 22$_{[5]}$ AC$_{[6]}$ EF$_{[7]}$	
[1] 150	Диаметр выходного отверстия, мм
[2] SSC	**Тип насоса:** погружной канализационный насос
[3] 180	Номинальная подача, м^3/ч
[4] 25	Номинальный напор, м
[5] 22	Мощность, кВт
[6] AC	AC — с автоматической трубной муфтой
[7] EF	EF — с коленом под фланец ES — с коленом под гибкий фланец

Основные технические данные на насосы серии SSC

Параметры	Диапазон значений (данные указаны для воды)
Напор (м.вд.ст)	до 100
Подача ($м^3$/ч)	до 5000
Мощность подключаемого электродвигнателя (кВт)	До 315
Максимальная глубина погружения (м)	20 метров (требует замену кабеля, стандартная длина 9 метров)
Максимальная температура перекачиваемой жидкости	+40 °C (опционально до 100 °C);
Класс изоляции	F
Степень пылевлагозащиты	IP68
Подключение	3x380 В; Частота: 50 Гц (опционально 3x690В)

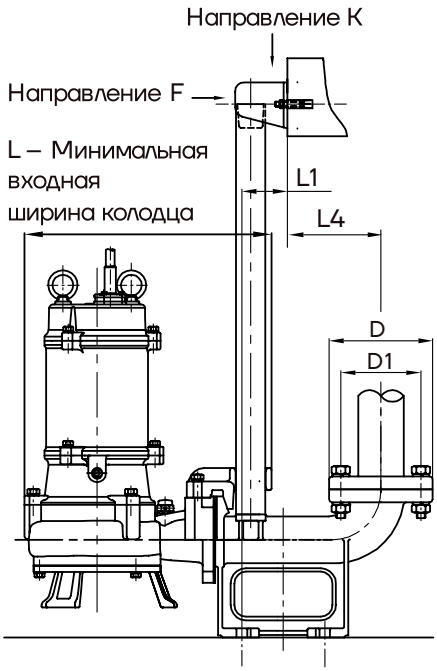
Характеристики указаны для стандартного исполнения насосов SSC, под индивидуальный заказ могут меняться рабочие характеристики, класс изоляции, длина и тип кабеля, материальное исполнение, температура перекачиваемой жидкости, комплектация датчиками, напряжение и другие параметры.

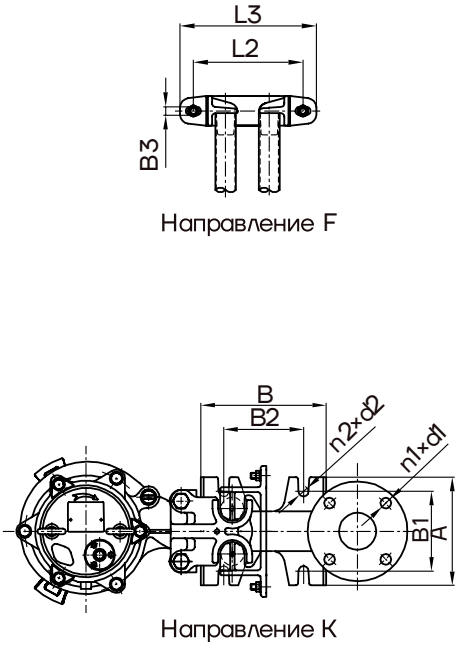
Дополнительный опции

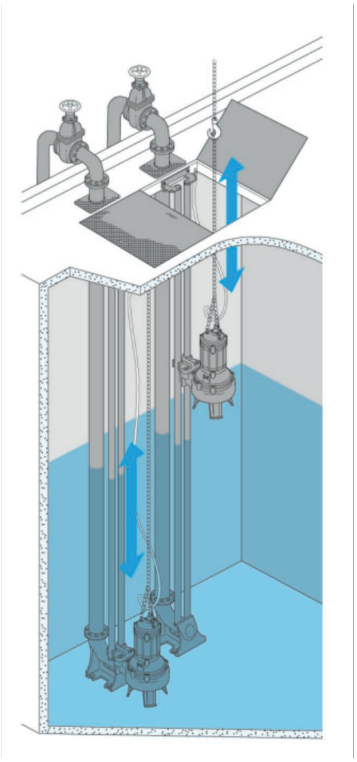
- Изменение питающего напряжения;
- Увеличение длины кабеля;
- Дополнительные датчики;
- Материальное исполнение.

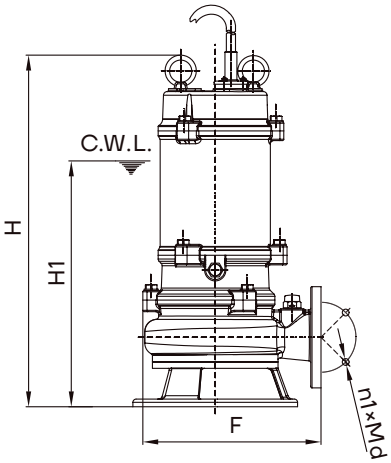
Требования к установке

Стационарная установка автоматической соединительной муфты:

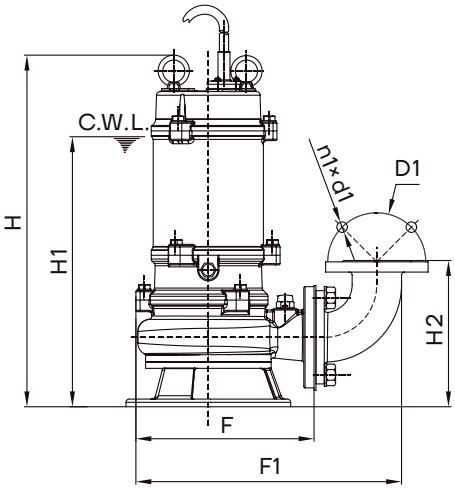




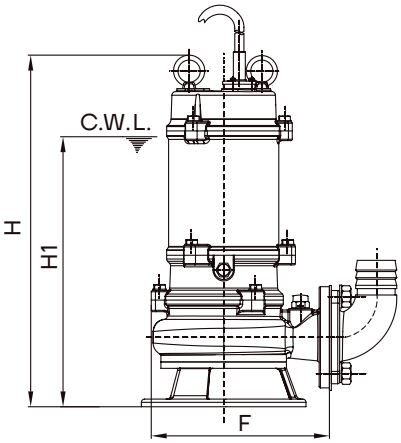




Насос без дополнений



Исполнение с коленом под фланец



Исполнение с коленом под гибкий шланг

*C.W.L — Минимальный уровень жидкости для продолжительной работы.

Модельный ряд

Модель	Подача, м³/ч	Напорм, м	Мощность, кВт	Диаметр выходного отверстия, мм	Частота вращения, об/мин	Макс. диаметр тв. частиц, мм
50SSC20-55-11	20	55	11	50	2900	10
50SSC20-70-15	20	70	15	50	2900	10
50SSC20-80-18.5	20	80	18,5	50	2900	10
50SSC20-90-22	20	90	22	50	2900	
65SSC30-40-11	30	40	11	65	2900	10
65SSC30-60-15	30	60	15	65	2900	10
65SSC30-68-18.5	30	68	18,5	65	2900	10
65SSC30-75-22	30	75	22	65	2900	10
80SSC60-30-11	60	30	11	80	2900	24
80SSC60-40-15	60	40	15	80	2900	24
80SSC60-45-18.5	60	45	18,5	80	2900	40
80SSC60-50-22	60	50	22	80	2900	40
100SSC80-25-11	80	25	11	100	2900	32
100SSC100-25-11	100	25	11	100	1450	35
100SSC80-35-15	80	35	15	100	2900	32
100SSC100-30-15	100	30	15	100	1450	35
100SSC80-40-18.5	80	40	18,5	100	2900	40
100SSC100-35-18.5	100	35	18,5	100	1450	35
100SSC80-45-22	80	45	22	100	2900	40
100SSC100-40-22	100	40	22	100	1450	35
100SSC120-45-30	120	45	30	100	1450	31
100SSC150-42-37	150	42	37	100		
100SSC120-50-45	120	50	45	100		
100SSC80-65-45	80	65	45	100	1470	
100SSC 190-50-55	190	50	55	100	1470	
100SSC100-65-75	100	65	75	100		
100SSC 230-75-90	230	75	90	100	1470	
150SSC100-20-11	100	20	11	150	2900	46
150SSC120-15-11	120	15	11	150	2900	46
150SSC180-11-11	180	11	11	150	1450	74
150SSC100-30-15	100	30	15	150	2900	46
150SSC120-25-15	120	25	15	150	2900	46
150SSC200-15-15	200	15	15	150	1450	74
150SSC100-36-18.5	100	36	18,5	150	2900	47
150SSC180-20-18.5	180	20	18,5	150	1450	71
150SSC100-40-22	100	40	22	150	2900	47
150SSC200-22-22	200	22	22	150	1450	71
150SSC180-30-30	180	30	30	150	1450	36
150SSC200-35-37	200	35	37	150	1450	36
150SSC200-40-45	200	40	45	150	1450	36
150SSC180-50-55	180	50	55	150	1450	36
150SSC200-60-75	200	60	75	150	1450	31
150SSC200-70-110	200	70	110	150	1450	
200SSC180-11-11	180	11	11	200	2900	42
200SSC300-7-11	300	7	11	200	1450	74

Модельный ряд

Модель	Подача, м³/ч	Напорм, м	Мощность, кВт	Диаметр выходного отверстия, мм	Частота вращения, об/мин	Макс. диаметр тв. частиц, мм
200SSC180-15-15	180	15	15	200	2900	42
200SSC250-11-15	250	11	15	200	1450	74
200SSC180-18-18.5	180	18	18,5	200	2900	42
200SSC250-15-18.5	250	15	18,5	200	1450	71
200SSC350-10-18.5	350	10	18,5	200	1450	
200SSC200-20-22	200	20	22	200	2900	42
200SSC300-16-22	300	16	22	200	1450	71
200SSC400-10-22	400	10	22	200	1450	
200SSC250-22-30	250	22	30	200	1450	48
200SSC300-28-37	300	28	37	200	1450	48
200SSC350-25-37	350	25	37	200	1450	48
200SSC300-32-45	300	32	45	200	1450	48
200SSC400-25-45	400	25	45	200	1450	48
200SSC300-40-55	300	40	55	200	1450	48
200SSC400-30-55	400	30	55	200	1450	48
200SSC350-45-75	350	45	75	200	1450	42
200SSC300-56-90	300	56	90	200	1450	
200SSC400-50-90	400	50	90	200	1450	42
200SSC300-55-110	300	55	110	200	1450	
200SSC400-75-132	400	75	132	200	1450	
200SSC400-85-185	400	85	185	200	145	
200SSC 500-70-185	500	70	185	200	1470	
250SSC400-5-11	400	5	11	250	1450	40
250SSC500-5-15	500	5	15	250	1450	40
250SSC500-7-18.5	500	7	18,5	250	1450	56
250SSC500-9-22	500	9	22	250	1450	56
250SSC500-12-30	500	12	30	250	1450	50
250SSC600-9-30	600	9	30	250	1450	50
250SSC600-12-37	600	12	37	250	1450	50
250SSC600-15-45	600	15	45	250	1450	64
250SSC600-20-55	600	20	55	250	1450	64
250SSC600-25-75	600	25	75	250	1450	66
250SSC600-30-90	600	30	90	250	1450	66
250SSC600-40-110	600	40	110	250	1450	70
250SSC600-60-160	600	60	160	250	1450	75
250SSC600-50-160	600	50	160	250	1450	
250SSC600-65-200	600	65	200	250	1450	
250SSC1000-80-330	1000	80	330	250	1450	
300SSC650-5-18.5	650	5	18,5	300	1450	62
300SSC650-7-22	650	7	22	300	1450	62
300SSC800-7-30	800	7	30	300	1450	80
300SSC800-9-37	800	9	37	300	1450	80
300SSC800-12-45	800	12	45	300	1450	80
300SSC800-15-55	800	15	55	300	1450	80
300SSC800-20-75	800	20	75	300	1450	83

Модельный ряд

Модель	Подача, м³/ч	Напорм, м	Мощность, кВт	Диаметр выходного отверстия, мм	Частота вращения, об/мин	Макс. диаметр тв. частиц, мм
300SSC800-25-90	800	25	90	300	1450	83
300SSC1000-25-110	1000	25	110	300	1450	83
300SSC800-36-132	800	36	132	300	1450	92
300SSC800-40-160	800	40	160	300	1450	90
300SSC900-40-185	900	40	185	300	1450	92
300SSC1000-45-200	1000	45	200	300	1450	90
300SSC1200-45-250	1200	45	250	300	1450	90
350SSC1500-4-30	1500	4	30	350	980	100
350SSC1000-6-37	1000	6	37	350	1450	100
350SSC1100-6-37	1100	6	37	350	980	100
350SSC1200-8-45	1200	8	45	350	1450	100
350SSC1300-8-45	1300	8	45	350	980	100
350SSC1000-10-55	1000	10	55	350	1450	100
350SSC1100-10-55	1100	10	55	350	980	100
350SSC1500-12-75	1500	12	75	350	980	100
350SSC1000-18-90	1000	18	90	350	1450	90
350SSC1200-18-90	1200	18	90	350	980	100
350SSC1300-20-110	1300	20	110	350	1450	92
350SSC1600-16-110	1600	16	110	350	980	148
350SSC1100-28-132	1100	28	132	350	1450	100
350SSC1500-20-132	1500	20	132	350	980	88
350SSC1000-35-160	1000	35	160	350	1450	100
350SSC1400-23-160	1400	23	160	350	980	
350SSC1300-35-200	1300	35	200	350	1450	100
350SSC1500-36-250	1500	36	250	350	1450	100
400SSC1300-5-37	1300	5	37	400	980	
400SSC1700-6-45	1700	6	45	400	980	100
400SSC1300-8-55	1300	8	55	400	1450	100
400SSC1500-8-55	1500	8	55	400	980	100
400SSC1300-13-75	1300	13	75	400	1450	90
400SSC1700-10-75	1700	10	75	400	980	100
400SSC1300-16-90	1300	16	90	400	1450	90
400SSC1500-15-90	1500	15	90	400	980	100
400SSC1500-17-110	1500	17	110	400	1450	
400SSC1800-15-110	1800	15	110	400	980	148
400SSC1700-16-132	1700	16	132	400	1450	100
400SSC2000-15-132	2000	15	132	400	980	106
400SSC1600-22-160	1600	22	160	400	980	106
400SSC1600-20-160	1600	20	160	400	1450	100
400SSC1600-25-185	1600	25	185	400	1450	100
400SSC2000-20-185	2000	20	185	400	980	115
400SSC1500-30-200	1500	30	200	400	1450	100
400SSC2300-22-200	1500	22	200	400	980	115
400SSC1400-35-250	1400	35	250	400	1450	
400SSC1250-40-250	2500	22	250	400	980	

Модельный ряд

Модель	Подача, м³/ч	Напорм, м	Мощность, кВт	Диаметр выходного отверстия, мм	Частота вращения, об/мин	Макс. диаметр тв. частиц, мм
500SSC2200-5-55	2200	5	55	500	980	100
500SSC2700-6-75	2700	6	75	500	740	
500SSC2000-10-90	2000	10	90	500	980	100
500SSC2500-8-90	2500	8	90	500	740	140
500SSC2500-10-110	2500	10	110	500	980	140
500SSC3000-8-110	3000	8	110	500	740	140
500SSC2800-10-132	2800	10	132	500	980	120
500SSC3000-10-132	3000	10	132	500	740	
500SSC2600-14-160	2600	14	160	500	980	
500SSC3000-12-160	3000	12	160	500	740	
500SSC3000-13-185	3000	13	185	500	980	
500SSC3000-15-200	3000	15	200	500	980	
500SSC3000-19-250	3000	19	250	500	980	
500SSC3500-19-315	3500	19	315	500	980	
600SSC3000-6-90	3000	6	90	600	740	120
600SSC3200-7-110	3200	7	110	600	980	140
600SSC3700-12-185	3700	12	185	600	980	120
600SSC3700-10-160	3700	10	160	600	980	100
600SSC3700-8-132	3700	8	132	600	980	100
600SSC3700-8-132	3700	8	132	600	740	100
600SSC3700-6-110	3700	6	110	600	740	
600SSC4000-16-250	4000	16	250	600	740	
600SSC4000-12-200	4000	12	200	600	980	
600SSC4500-17-315	4500	17	315	600	980	

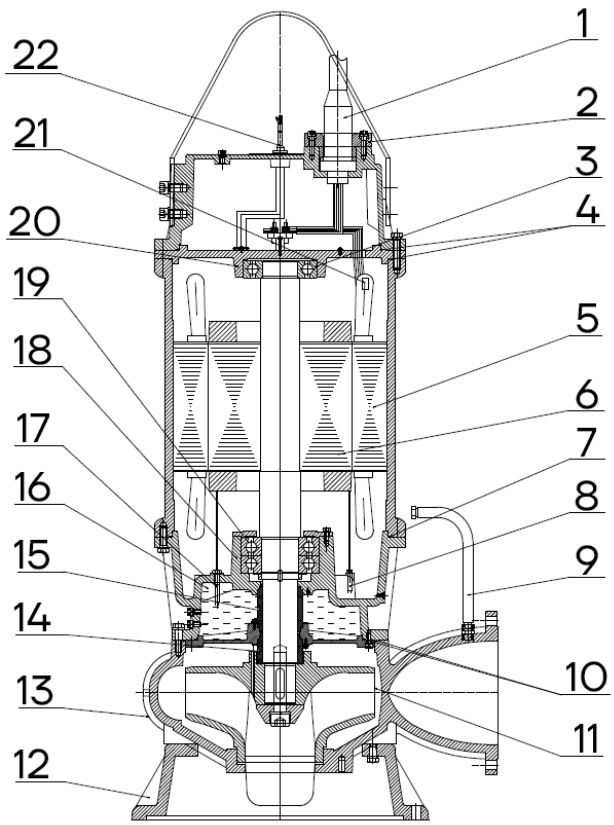
Конструкция

Погружные насосы типа SSC состоят из двух частей: герметичного электродвигателя с кабелем и центробежной части, соединенных моноблочно. Эти две части разделены масляной камерой и механическим уплотнением из специальных износостойких материалов, уплотнения охлаждаются перекачиваемой жидкостью и маслом, что обеспечивает их надежную эксплуатацию. Насос представляет собой вертикальную моноблочную конструкцию с коротким валом.

Сборка насосной части произведена с использованием минимального количества крепежа, что обеспечивает возможность легкого доступа к колесу рабочему при обслуживании.

Электродвигатель состоит из стального корпуса, в который запрессован статор с установленным в обмотке датчиком температуры. Корпус закрыт сверху крышкой корпуса, снизу – крышкой масляной камеры, закрепленными болтами.

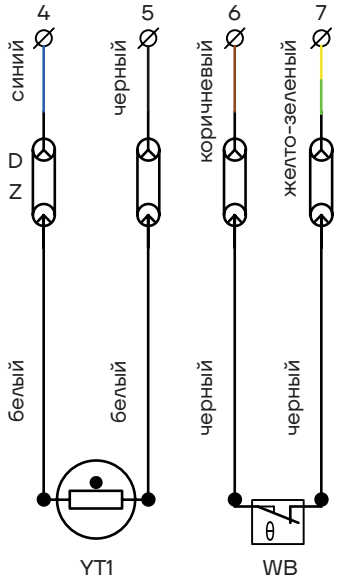
Ротор двигателя установлен с использованием радиальных шариковых подшипников: верхнего – однорядного и нижнего – двухрядного. Осевая фиксация ротора выполнена крышкой масляной камеры.



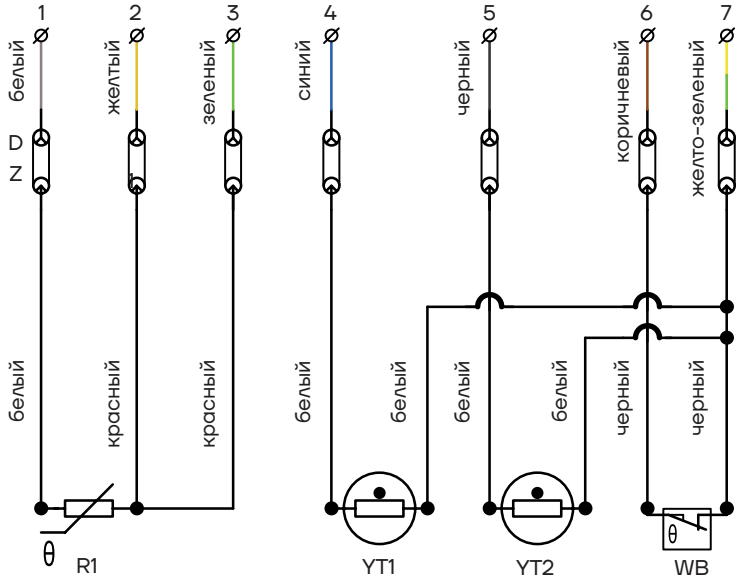
№	Наименование	Материал
1	Кабель	Резина
2	Кабельный ввод	/
3	Подшипник	/
4	Резиновое кольцо	NBR-70
5	Статор	/
6	Ротор	/
7	Резиновое кольцо	NBR-70
8	Датчик протечки в электродвигатель	/
9	Трубка	SS304
10	Резиновое кольцо	NBR-70
11	Рабочее колесо	HT200
12	Основание	HT200
13	Корпус	HT200
14	Механическое уплотнение	Графит/ Карбид кремния
15	Двойное механическое уплотнение	Графит/Карбид кремния
16	Масляная камера	-
17	Датчик протечки в масляную камеру	/
18	Корпус нижнего подшипника	HT200
19	Подшипник	/
20	Корпус верхнего подшипника	HT200
21	Термозащита	/
22	Сигнальный кабель	Резина

Схема подключения датчиков

11-90 кВт



110-315 кВт



1. YT1 - датчик утечки в масляную камеру, max сопротивление <10kΩ работает
2. WB термоконтакт, NO, T=100°C

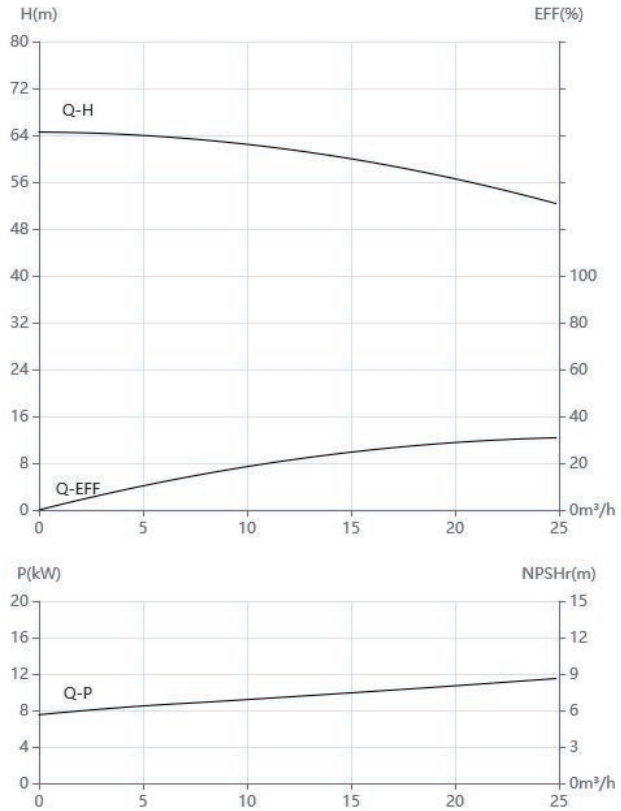
1. R1 - PT100 подшипника 0°=100Ω
2. YT1 - датчик утечки в масляную камеру, YT2 – датчик утечки в двигатель, сопротивление <10kΩ работает
3. WB термоконтакт, NO, T = 100°C

Опционально

PT100 обмотки/подшипники

Графические характеристики

50SSC20-55-11



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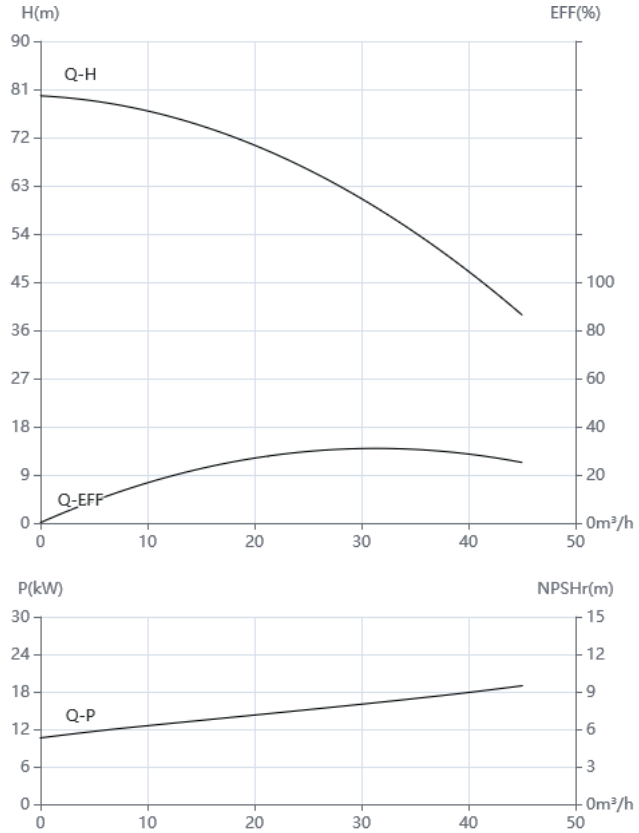

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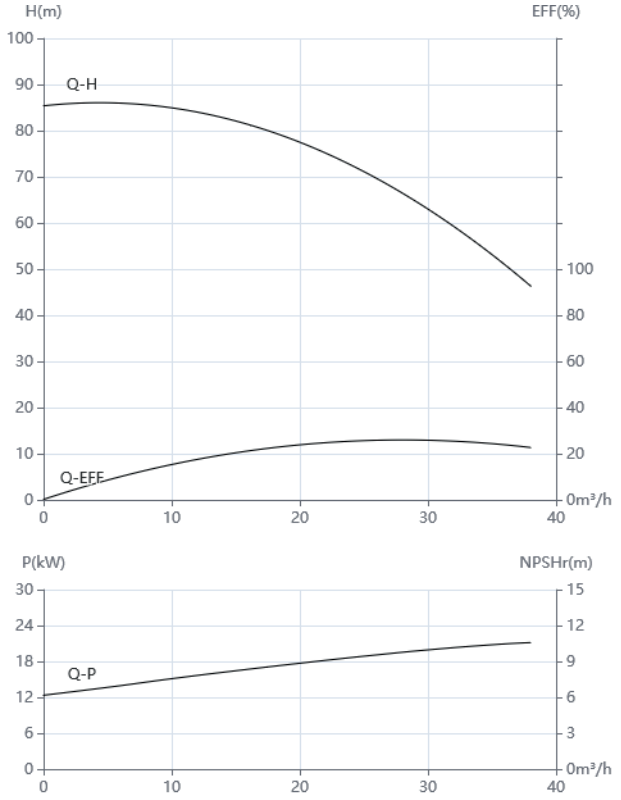

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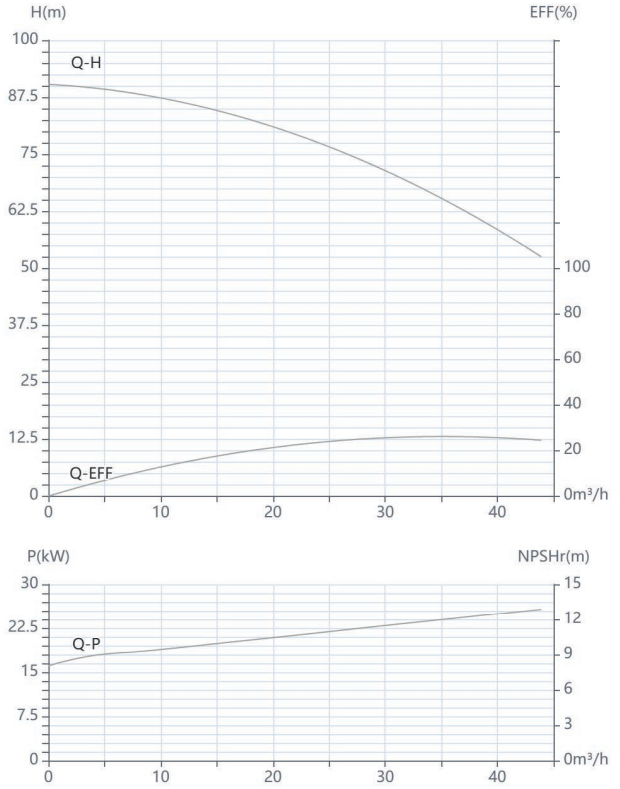

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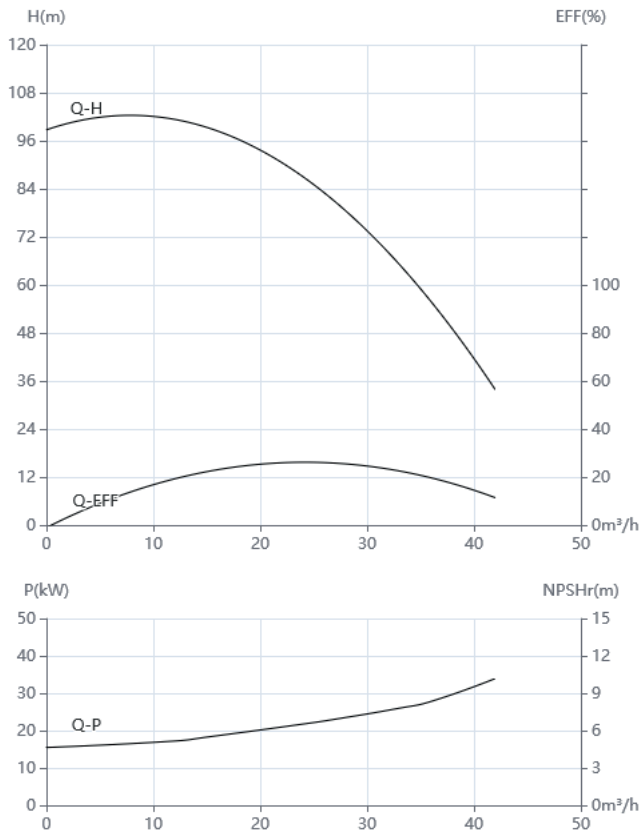

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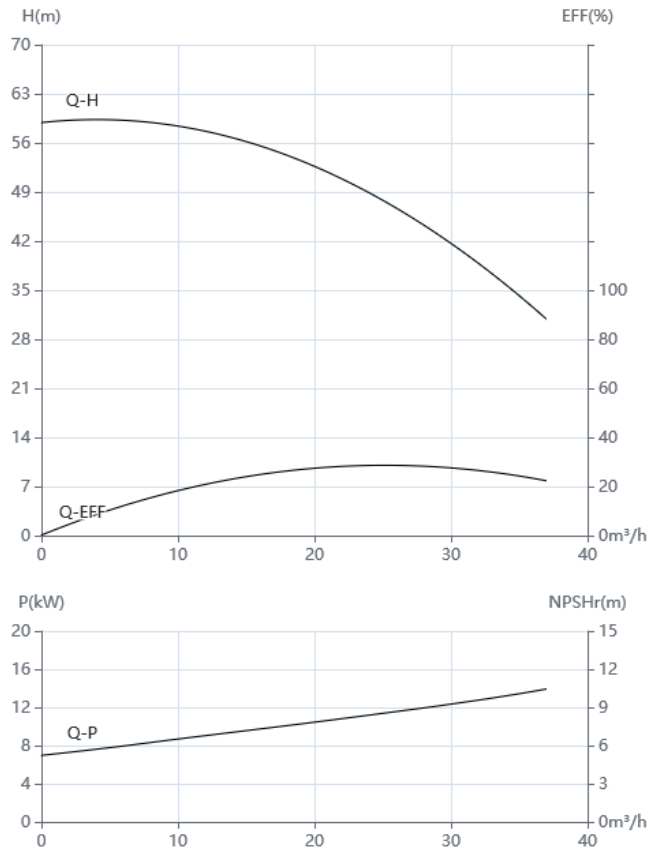

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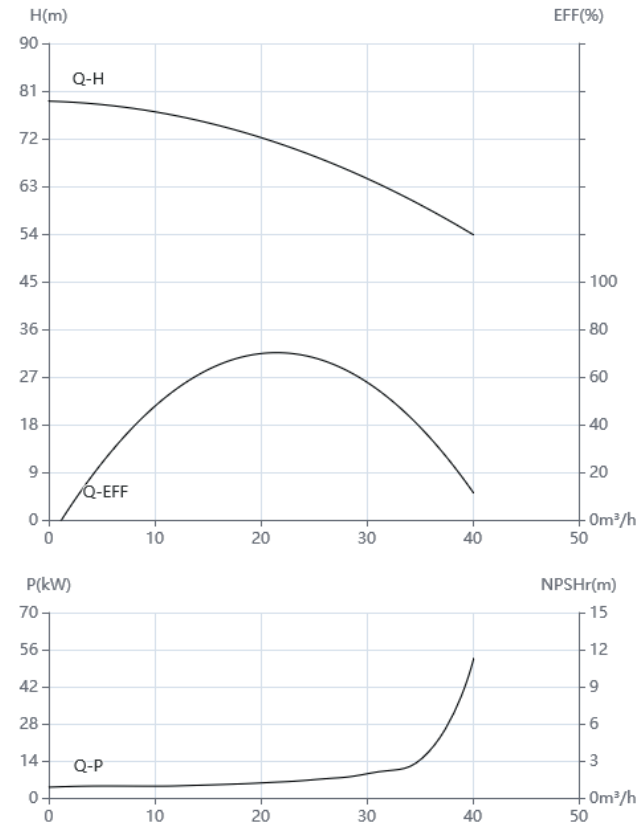

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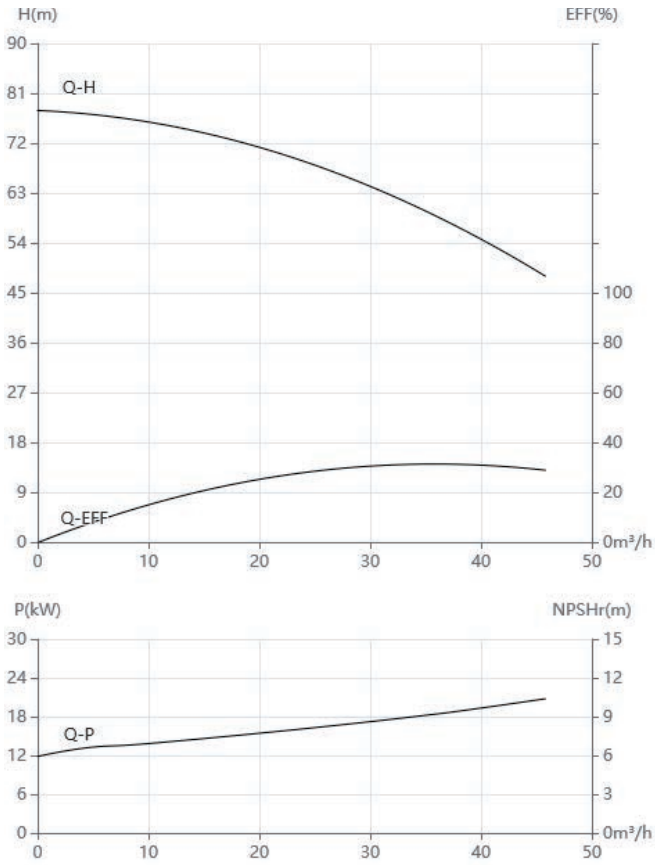

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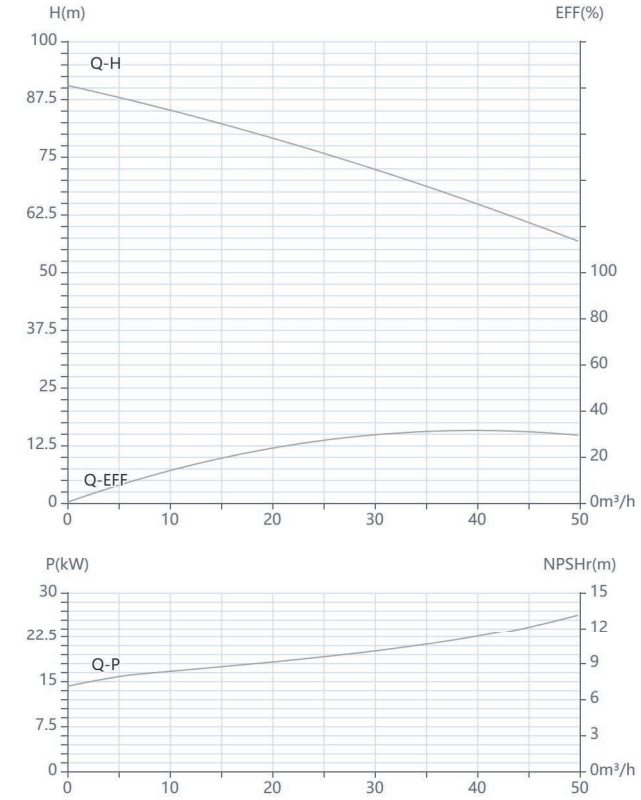

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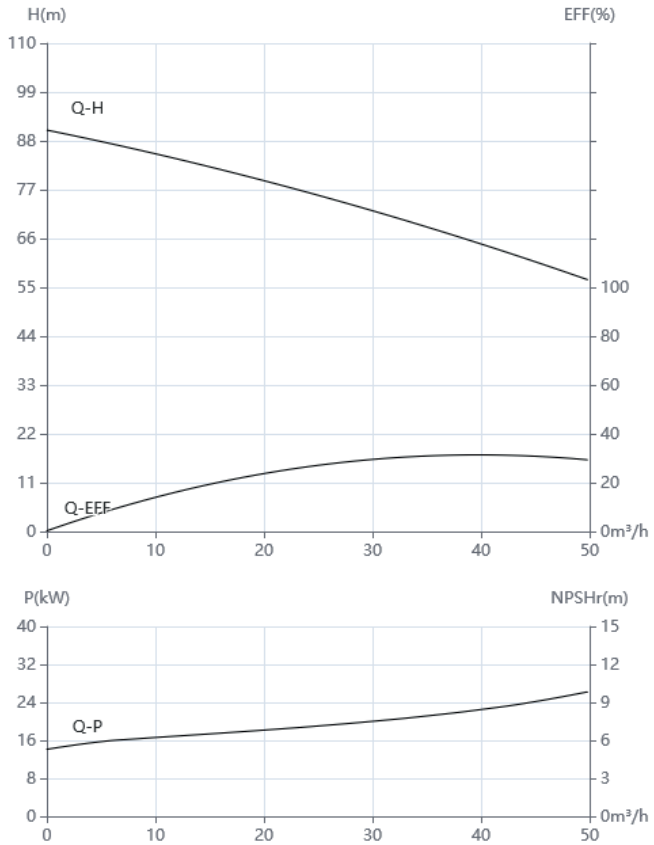

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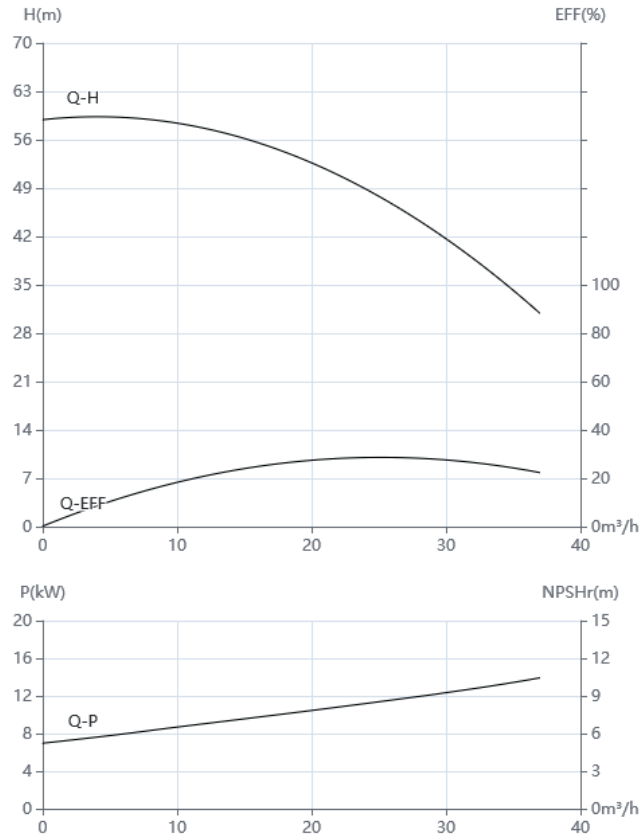

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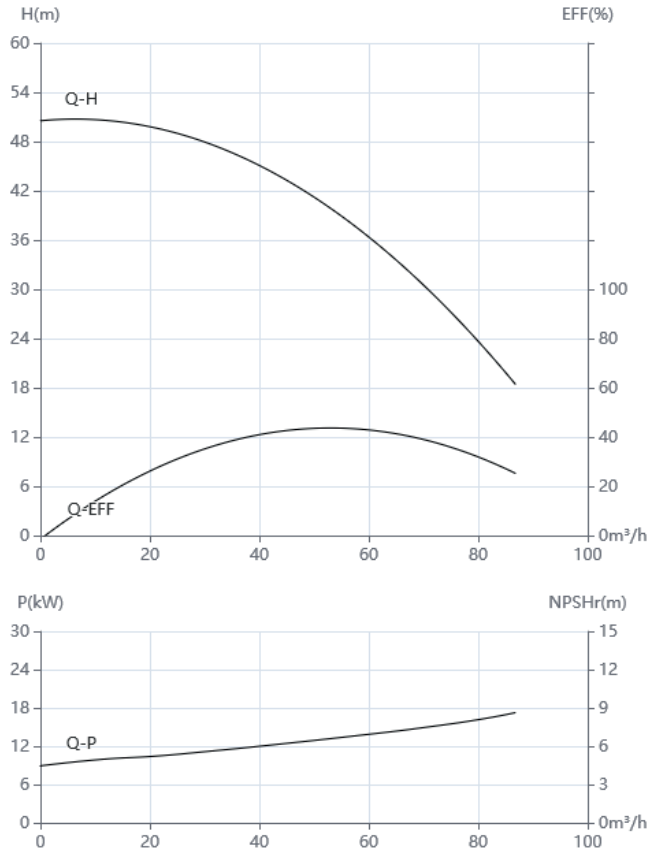

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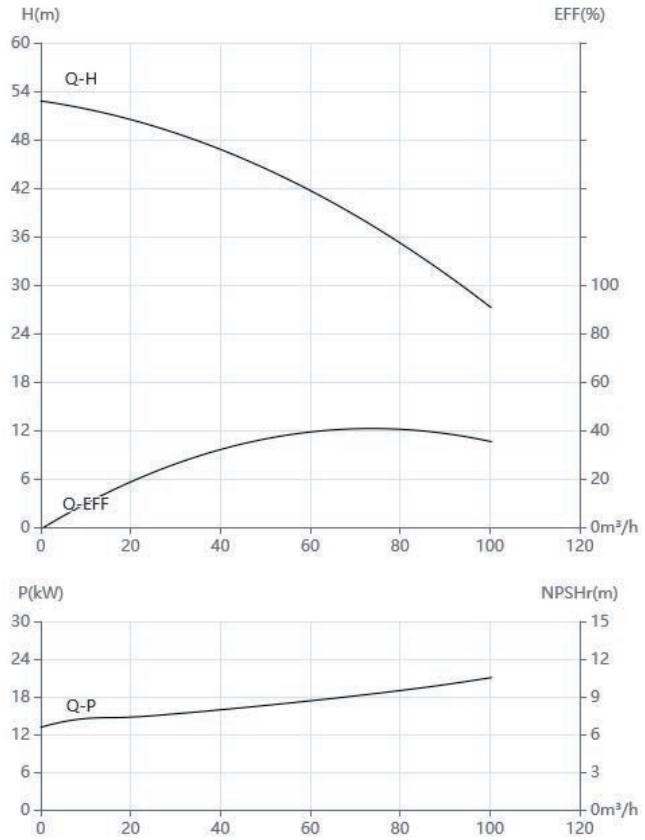

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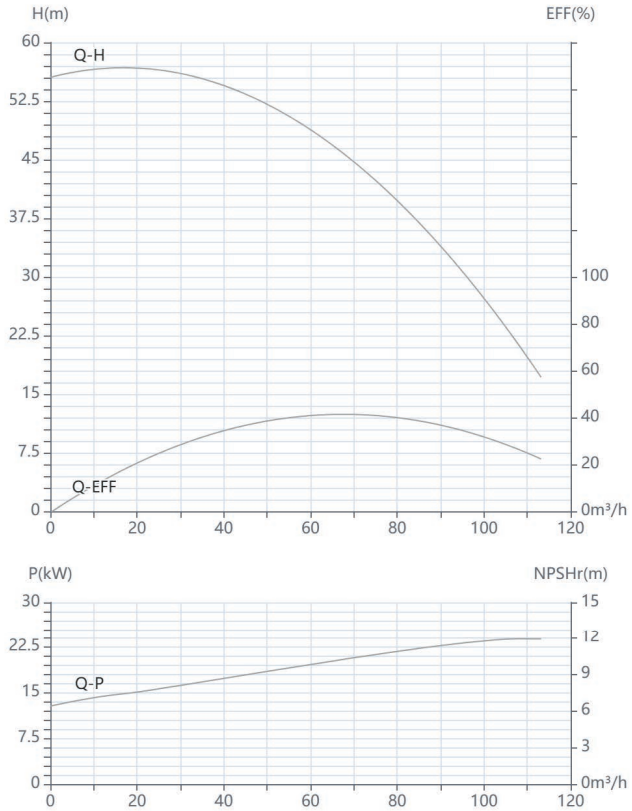

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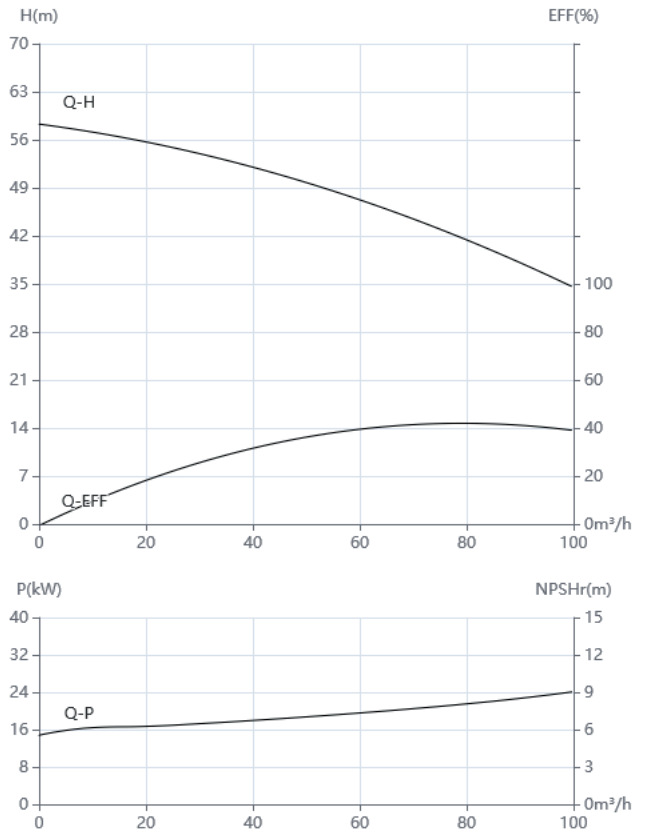

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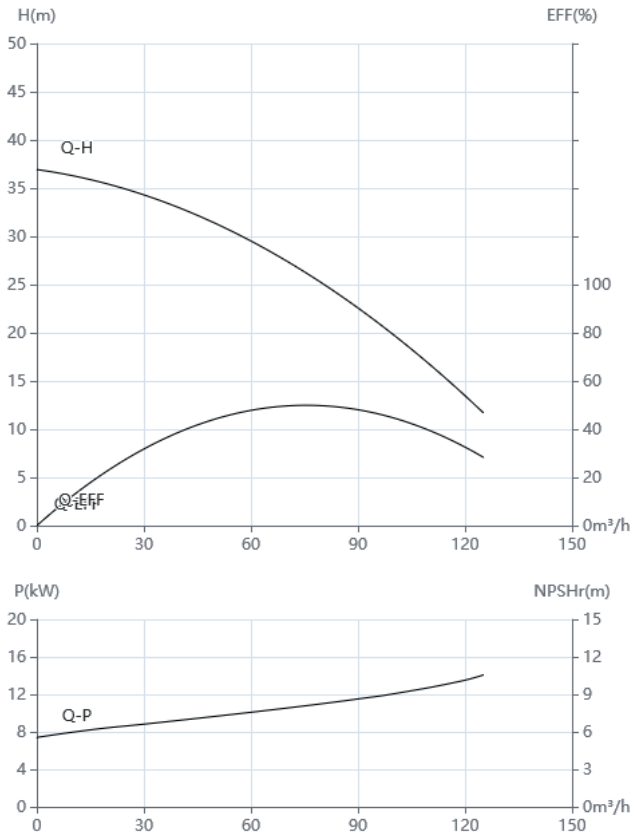

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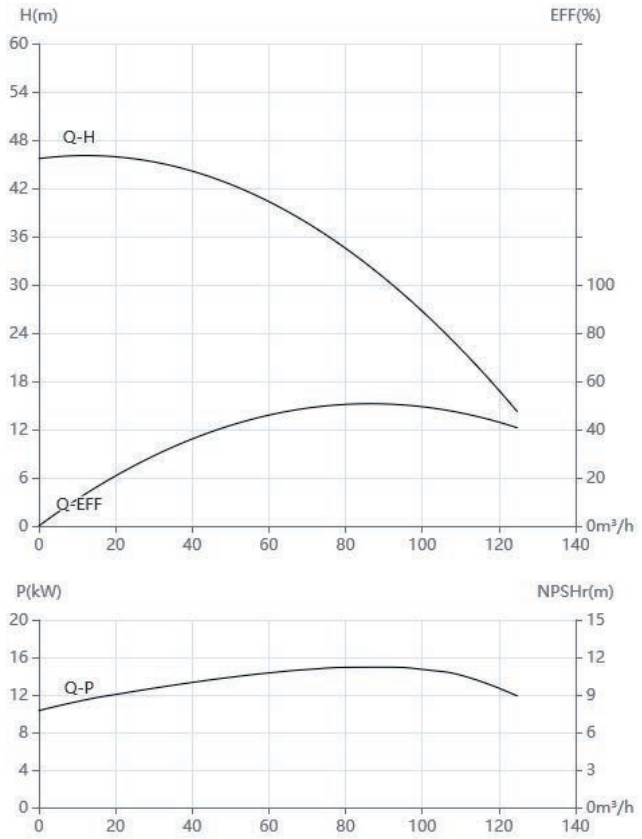

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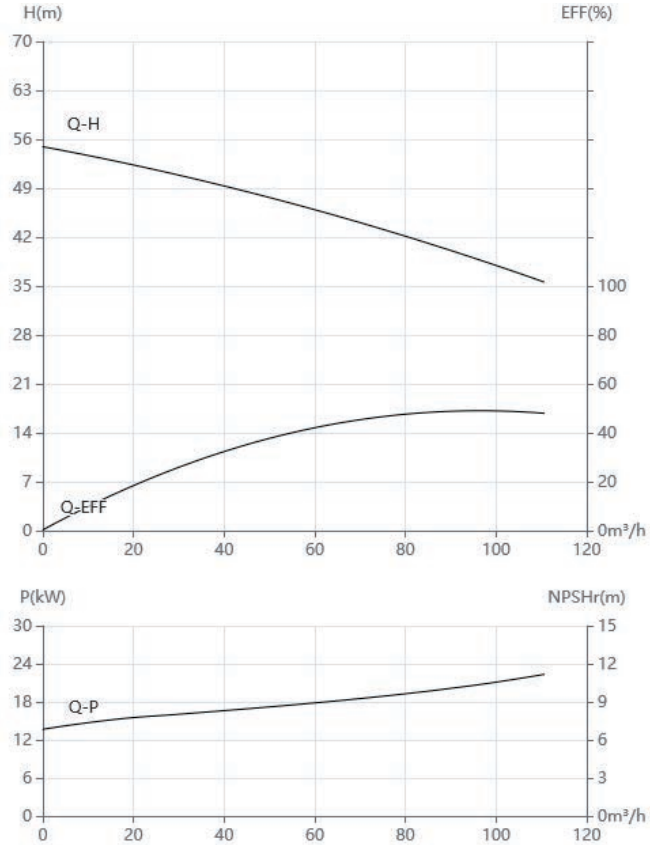

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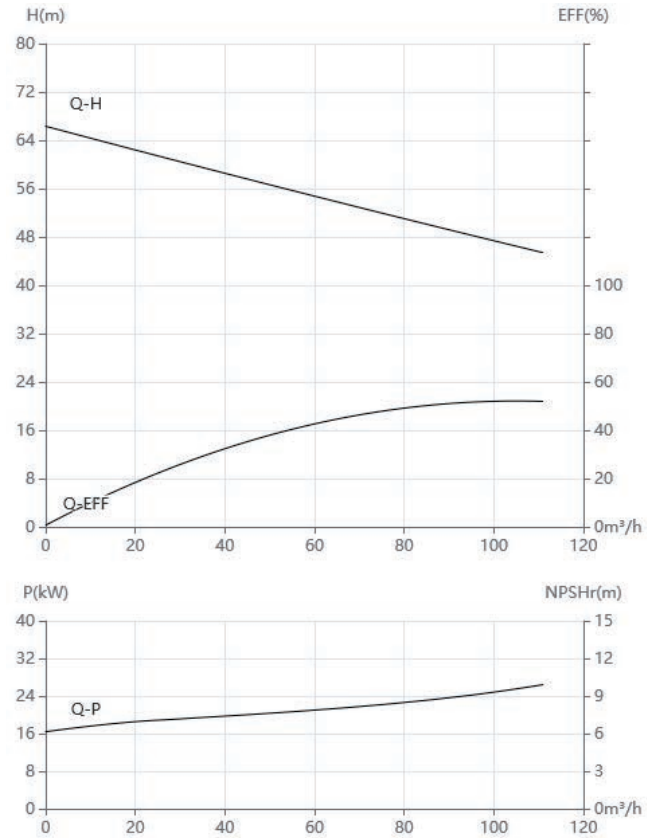

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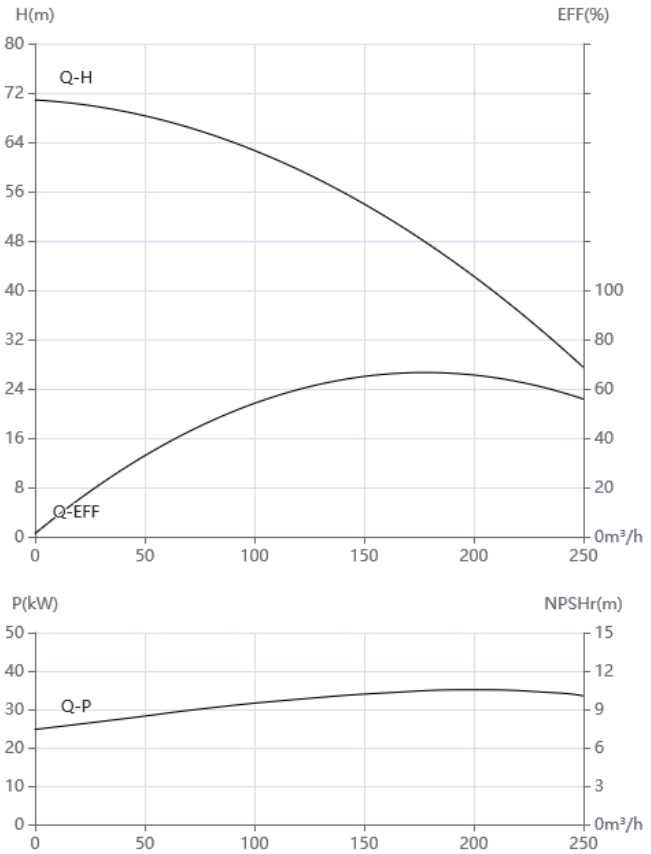

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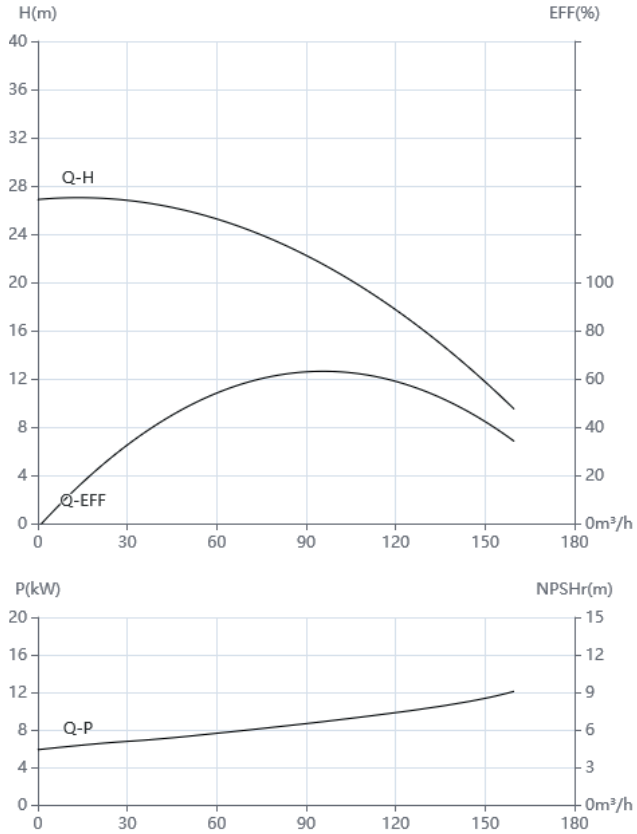

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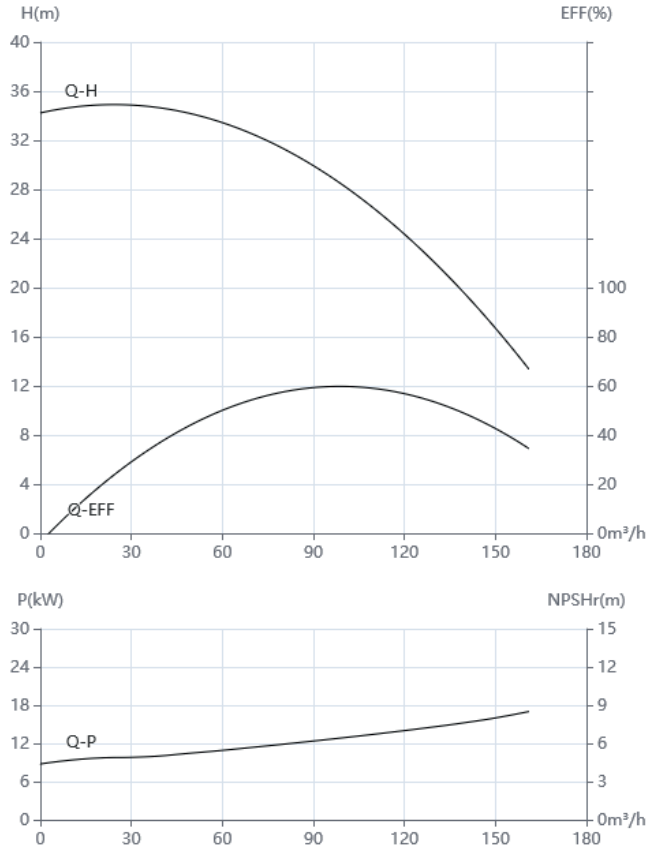

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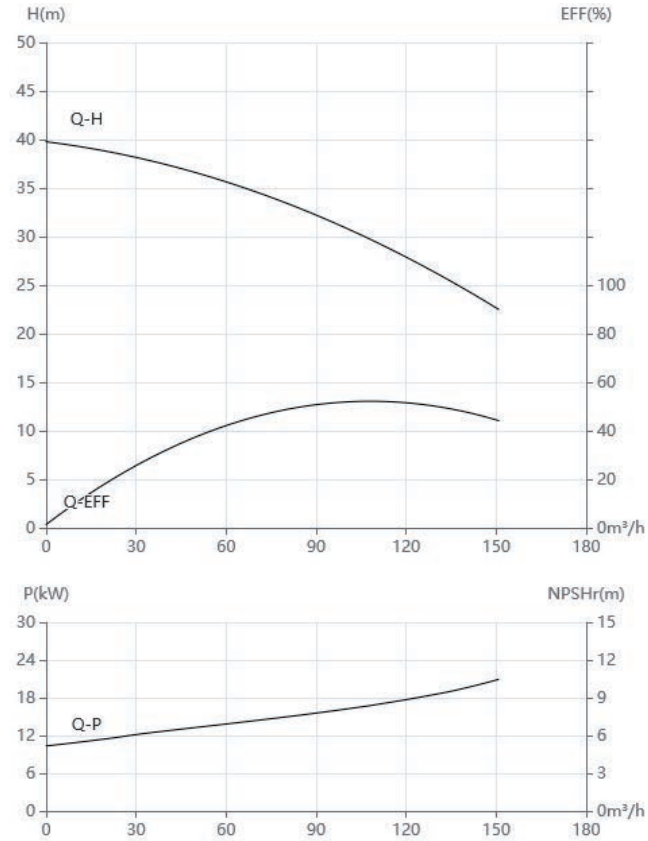

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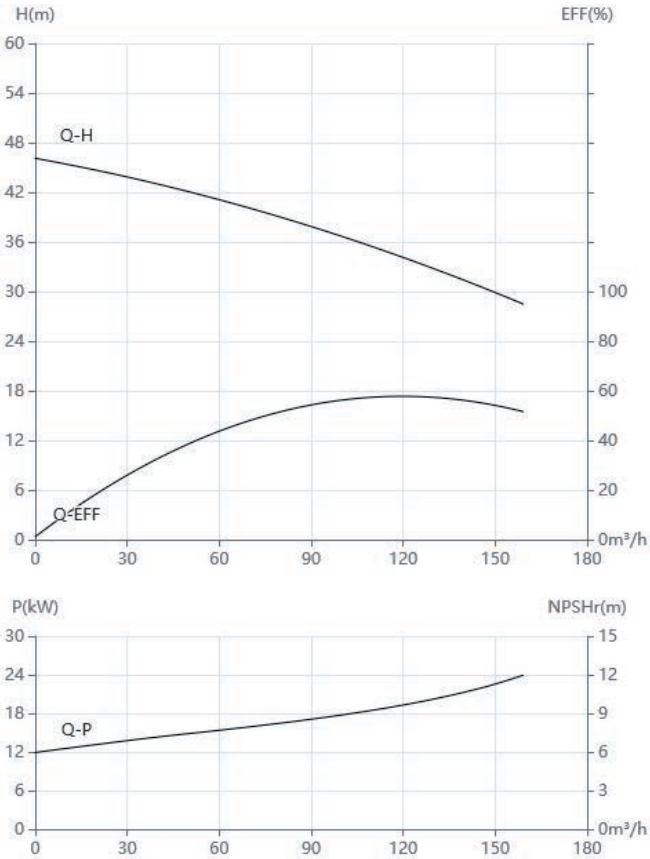

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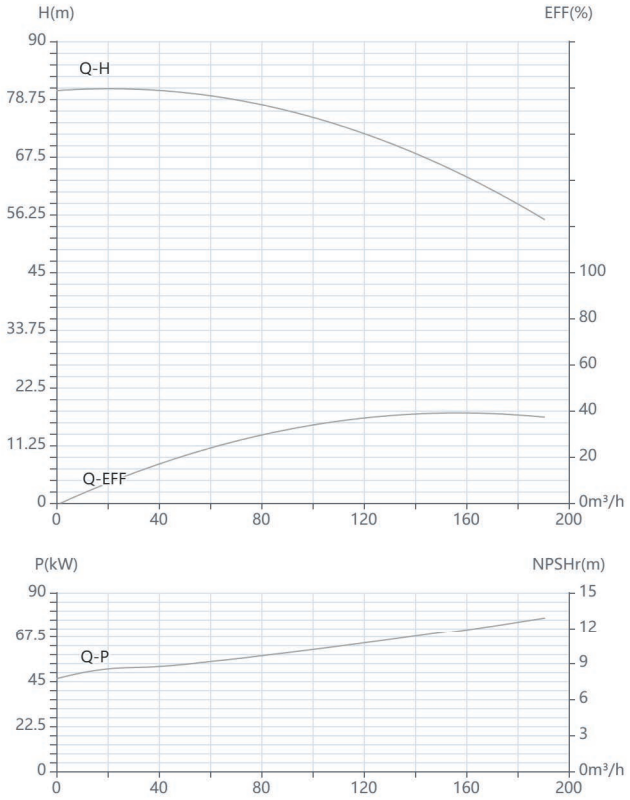

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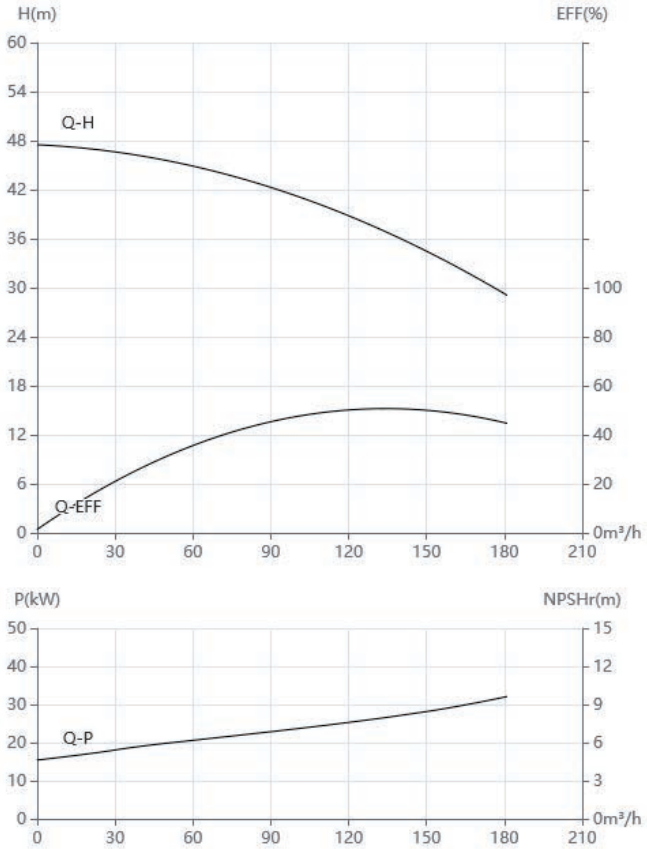

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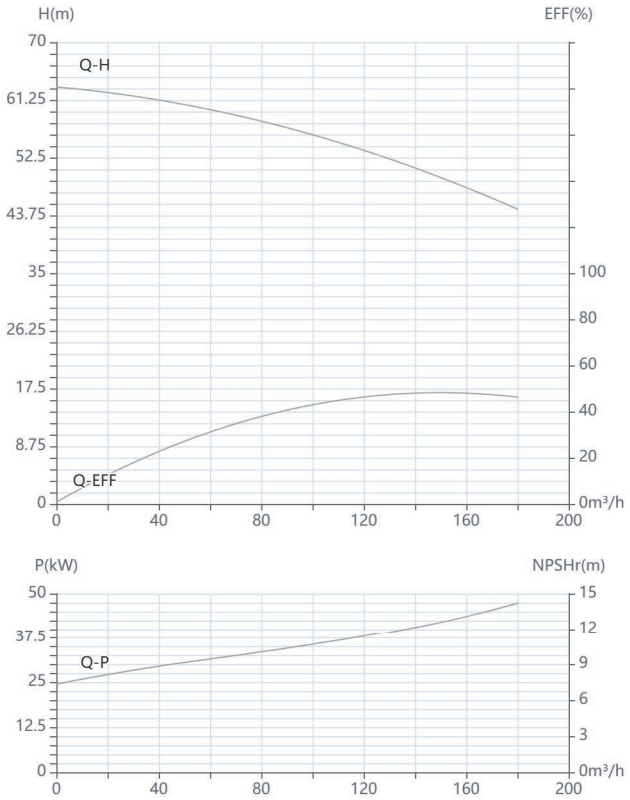

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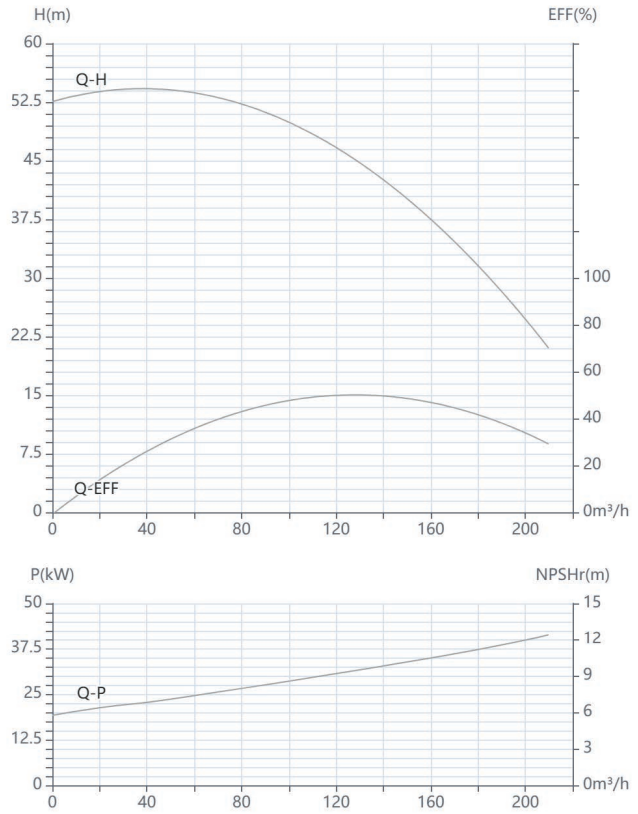

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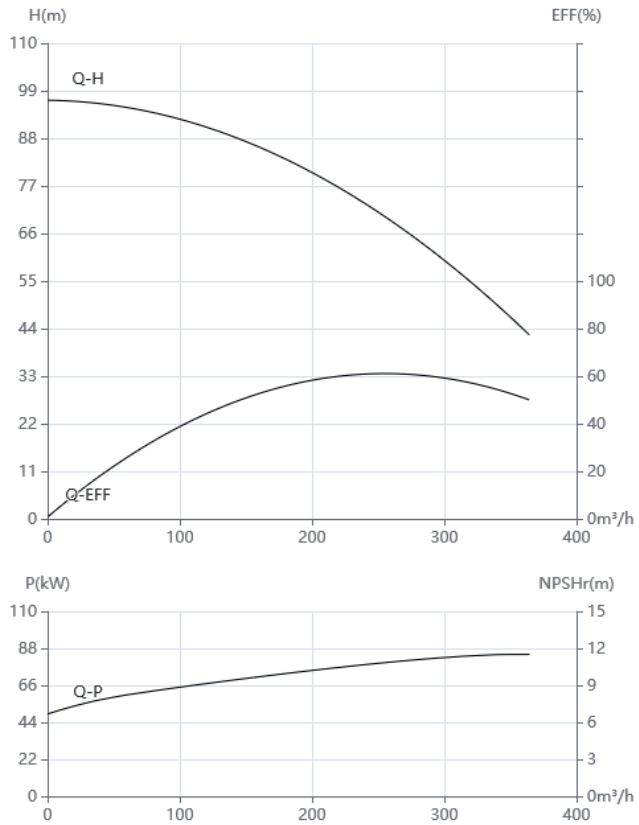

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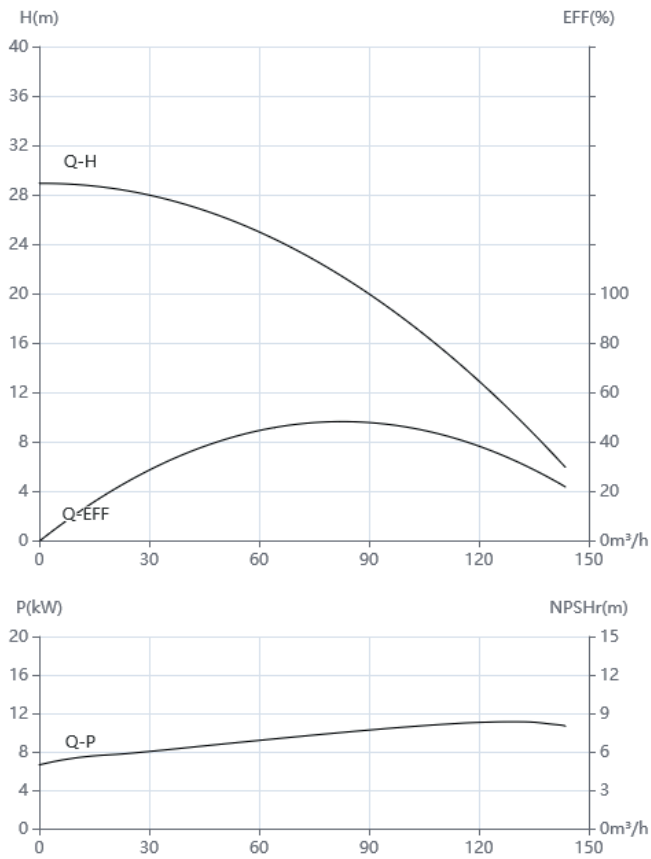

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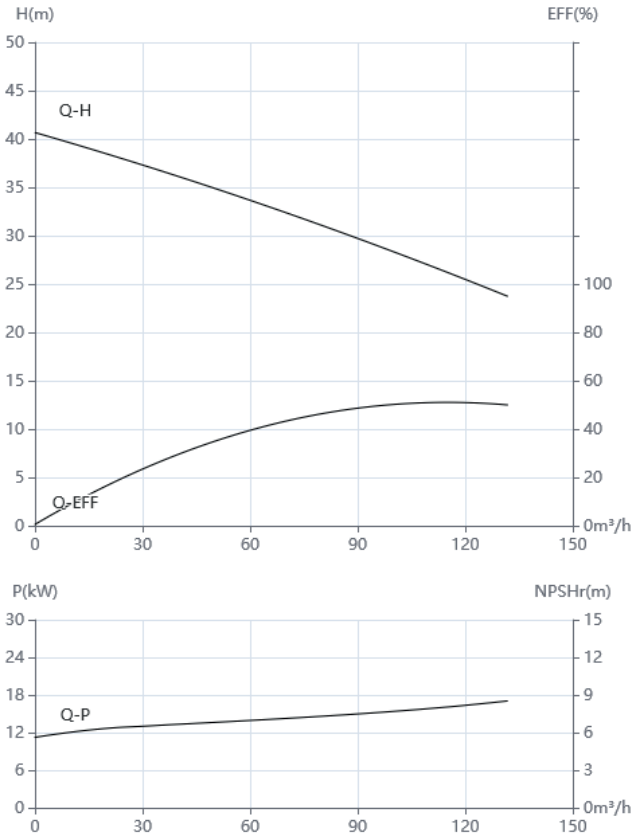

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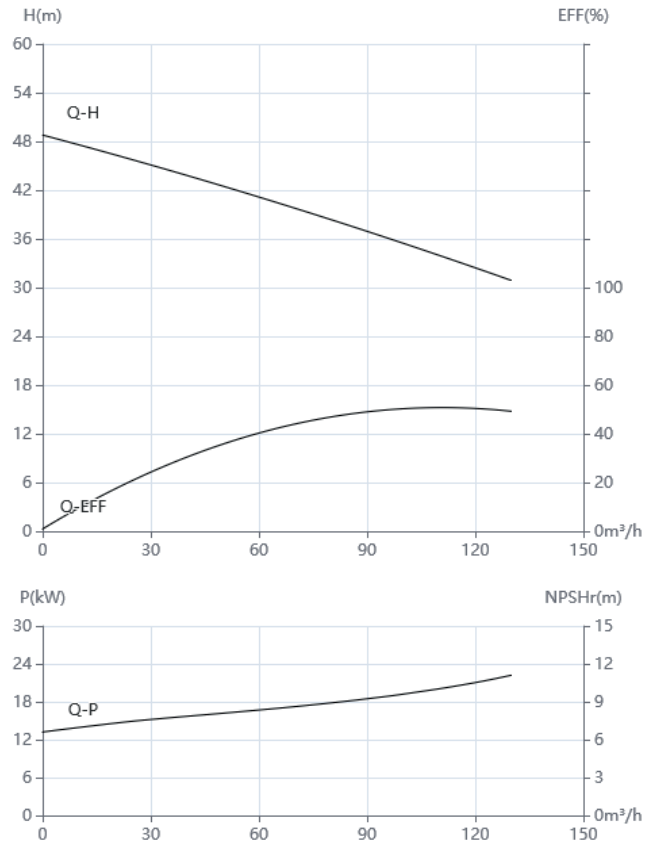

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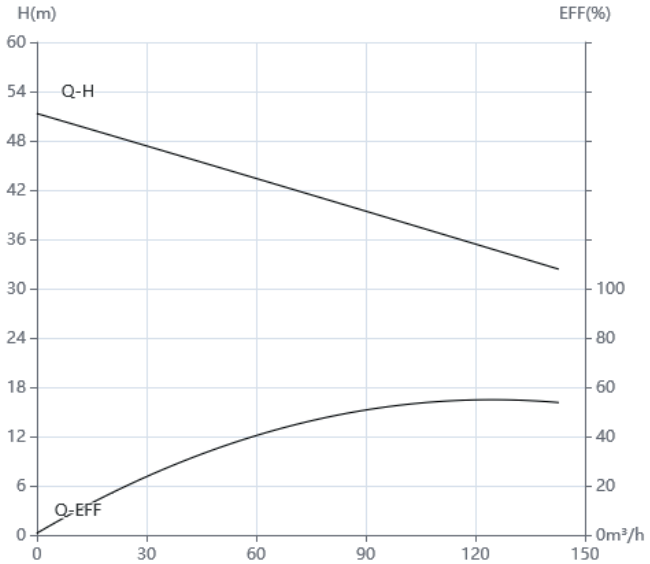

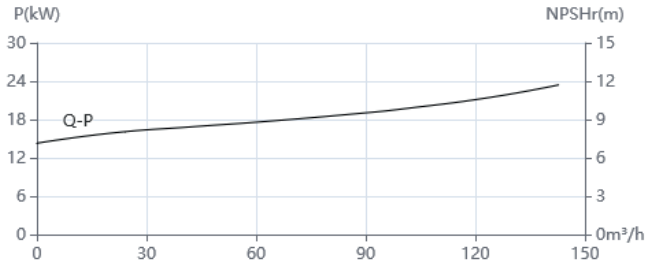

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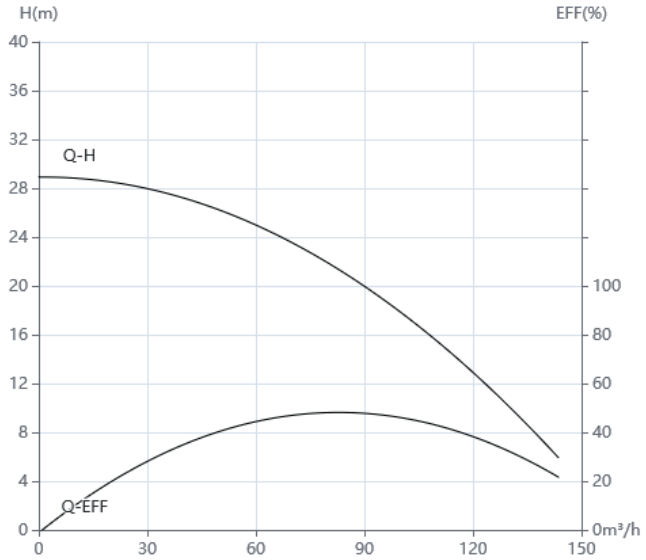

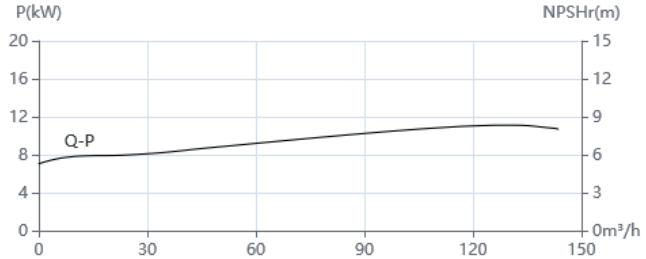

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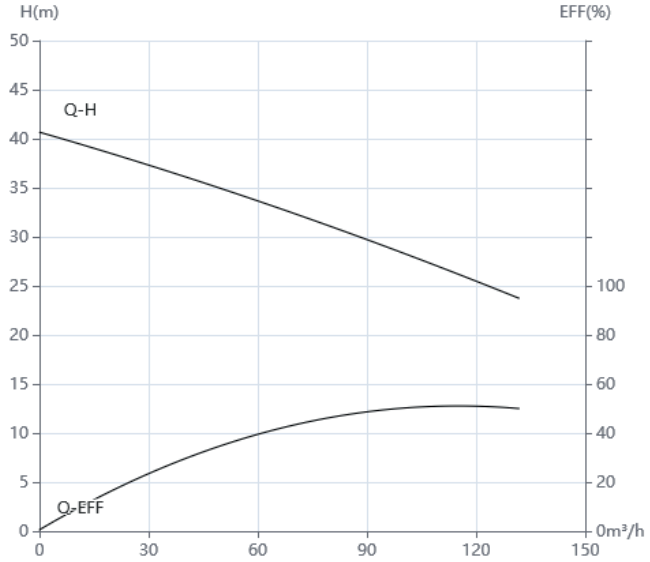

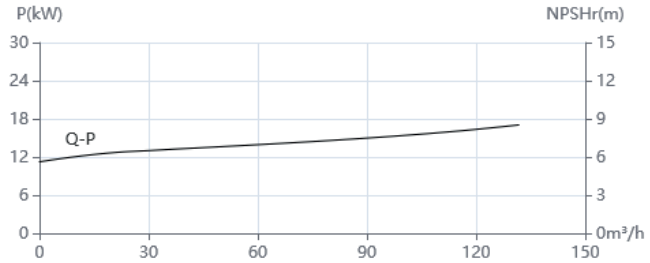

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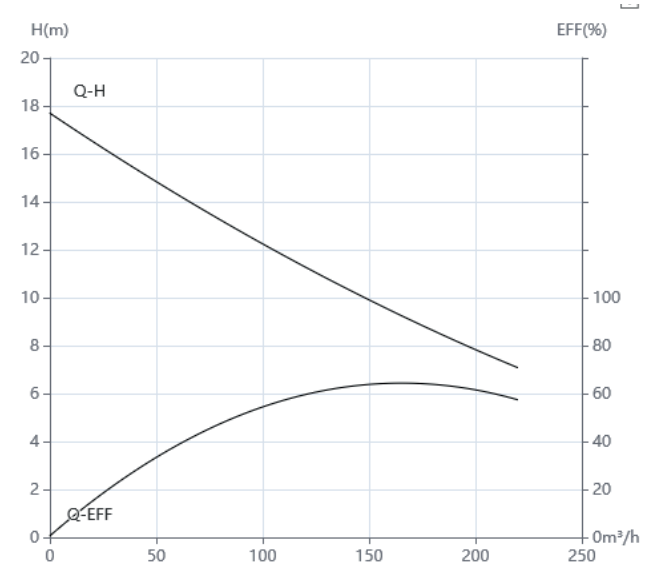

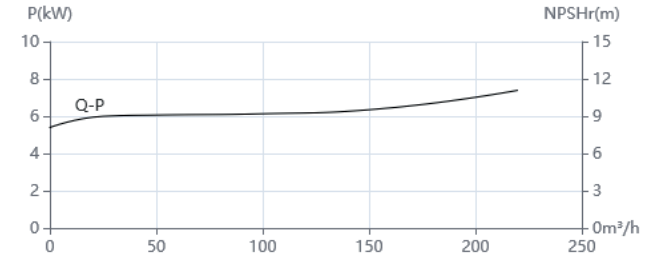

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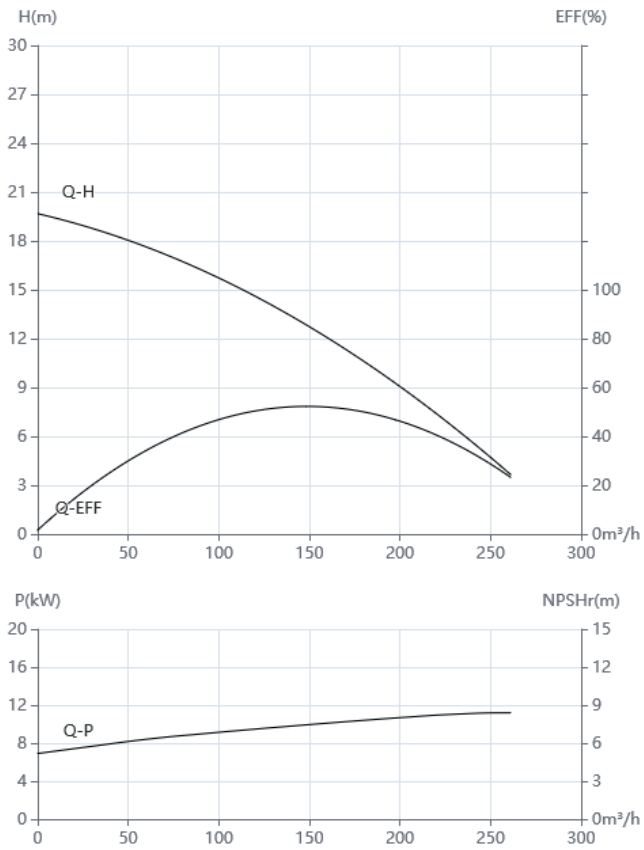

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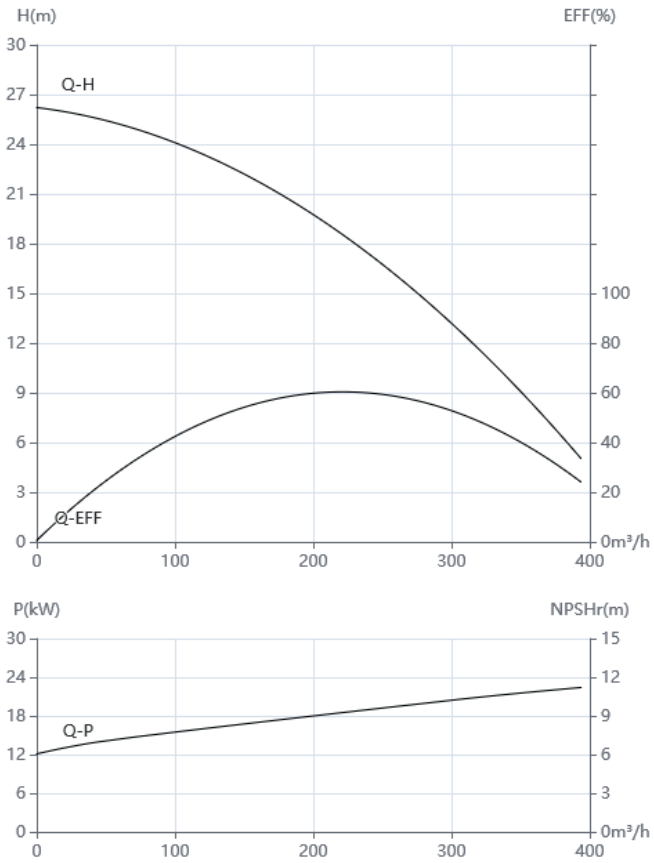

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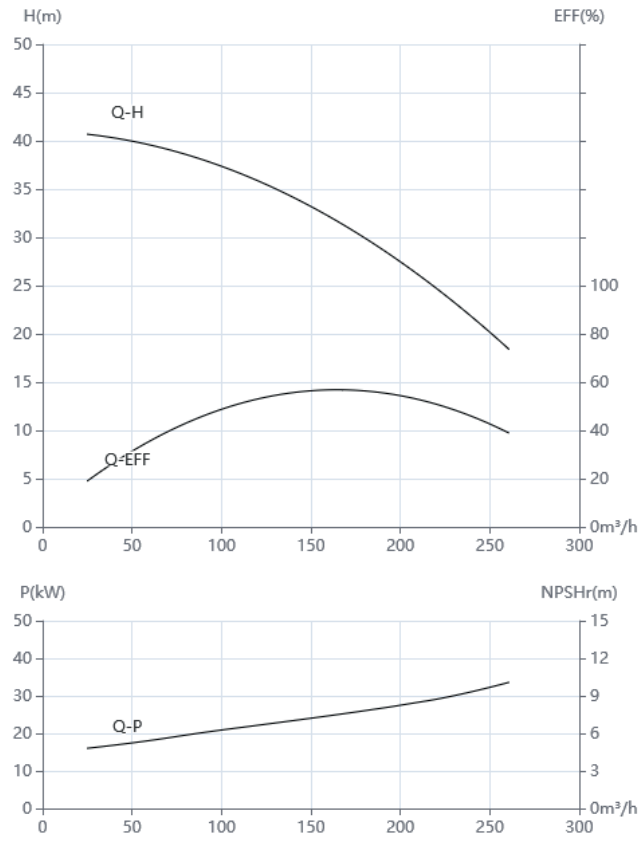

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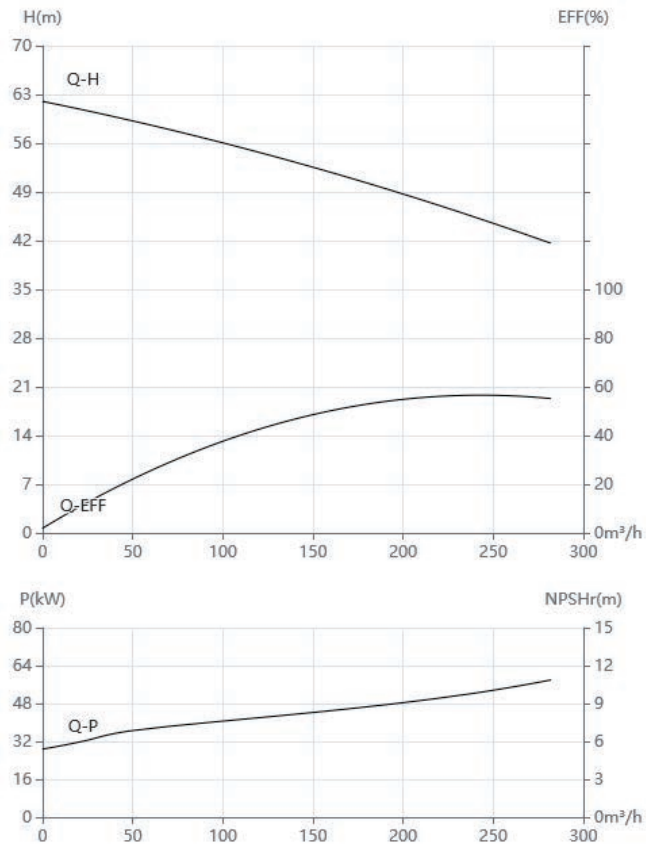

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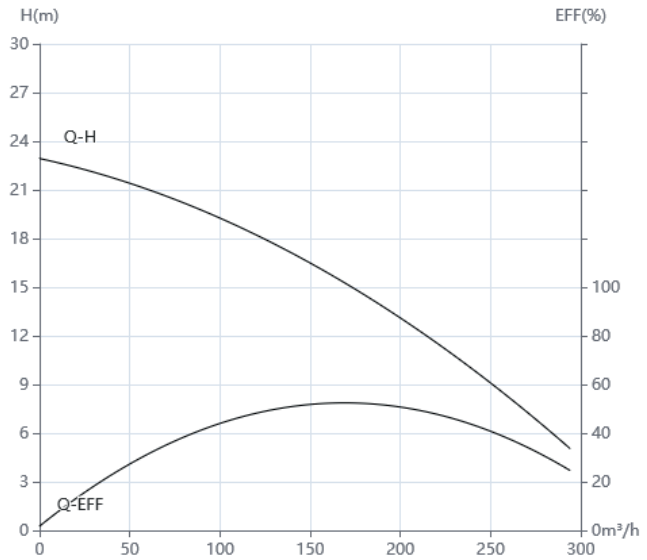

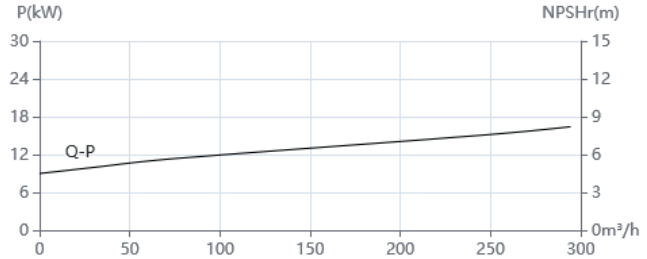

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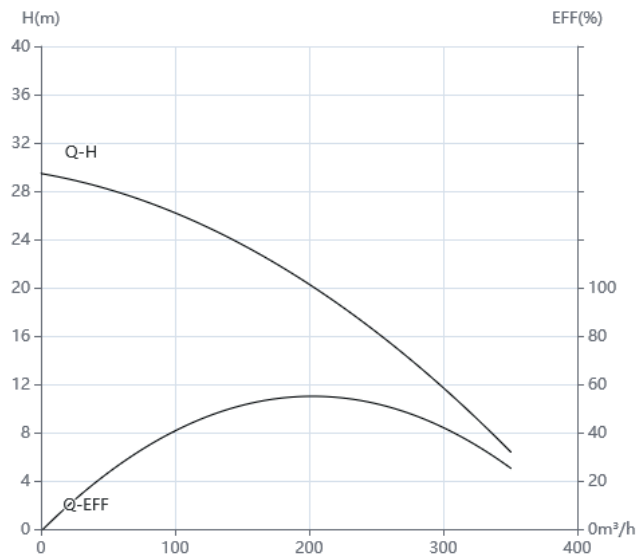

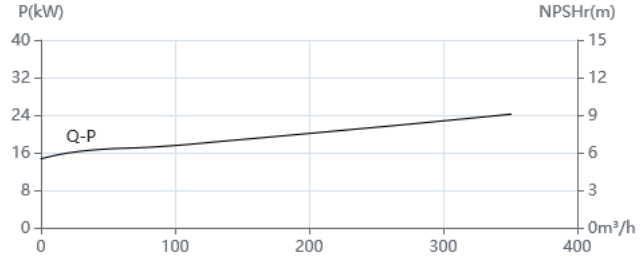

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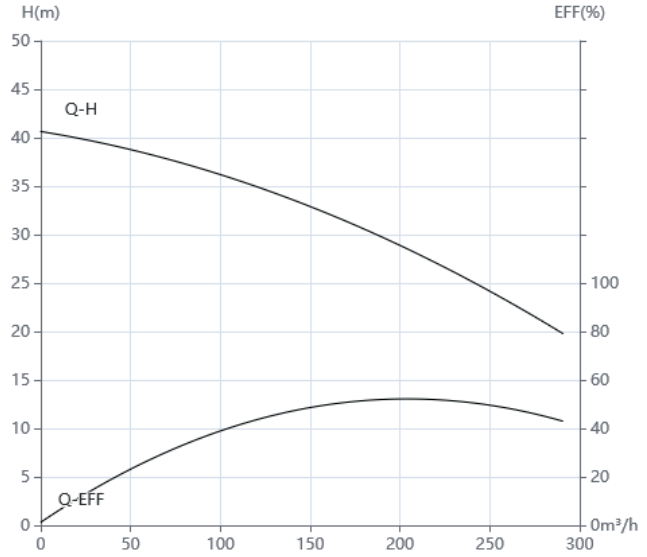
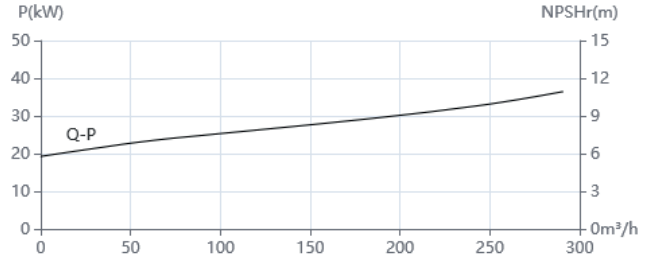
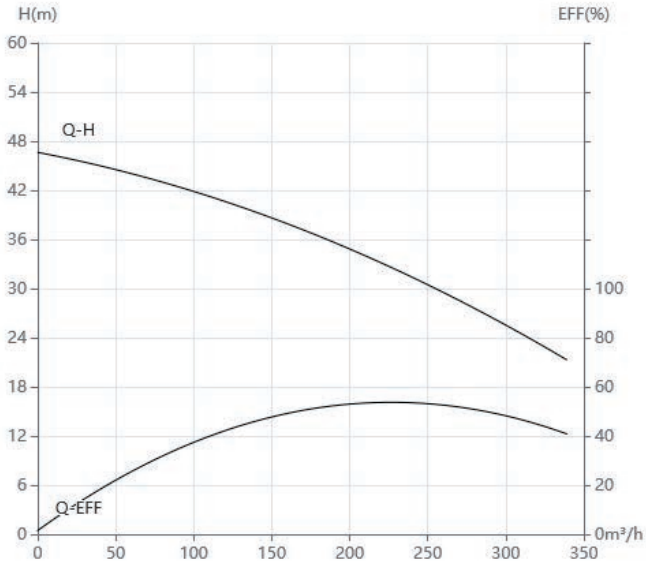
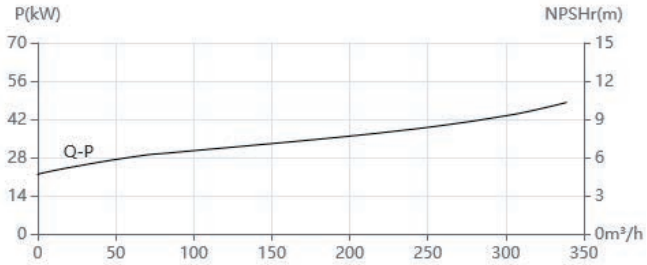


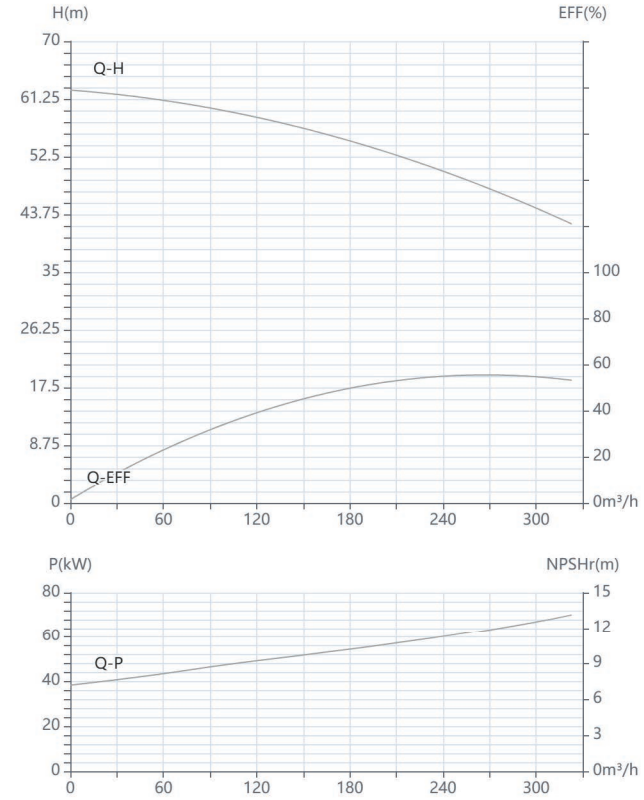


150SSC200-40-45





150SSC200-60-75



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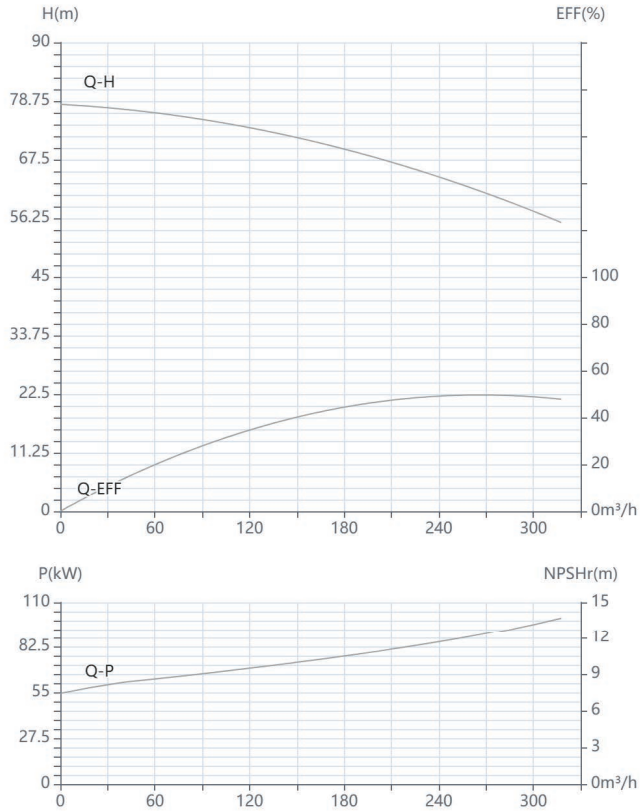
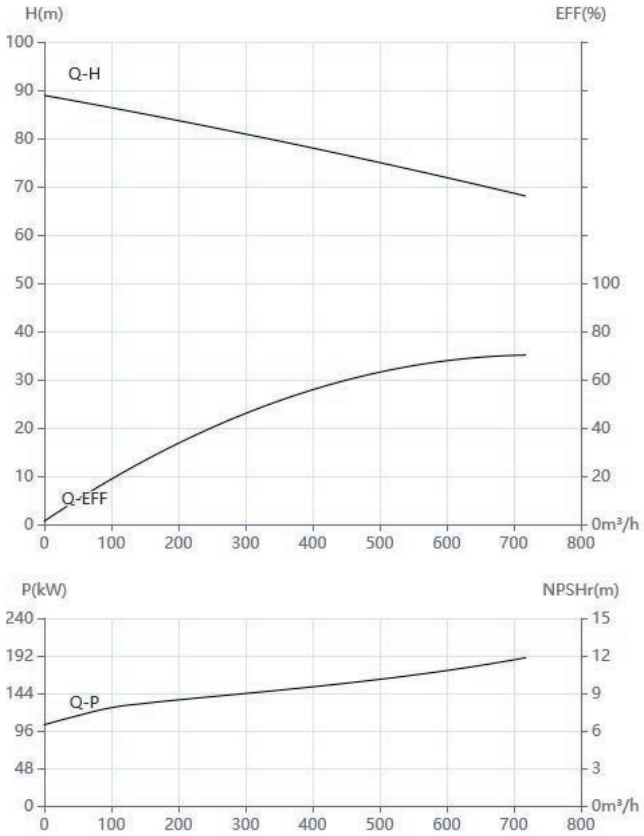
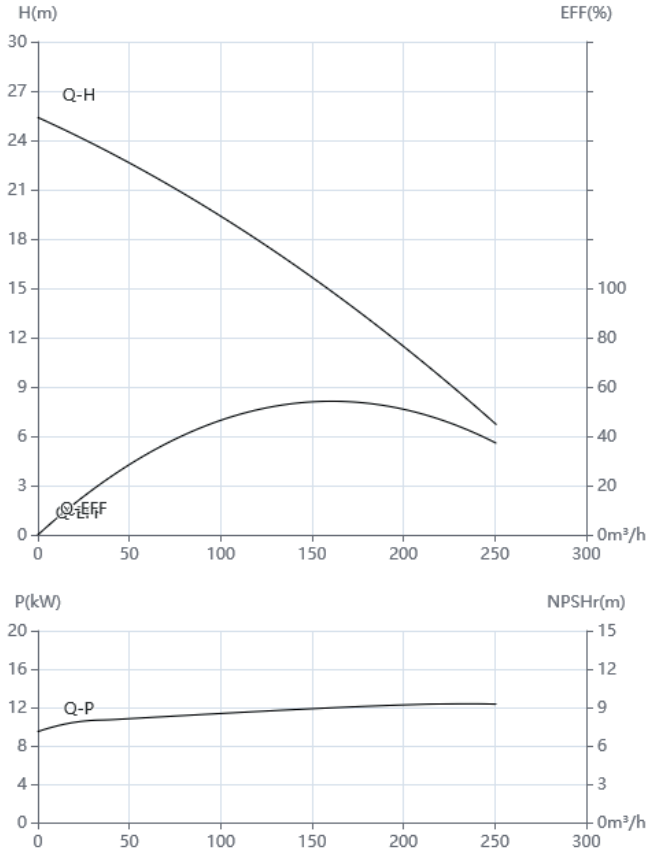


200SSC 500-75-200



200SSC180-11-11



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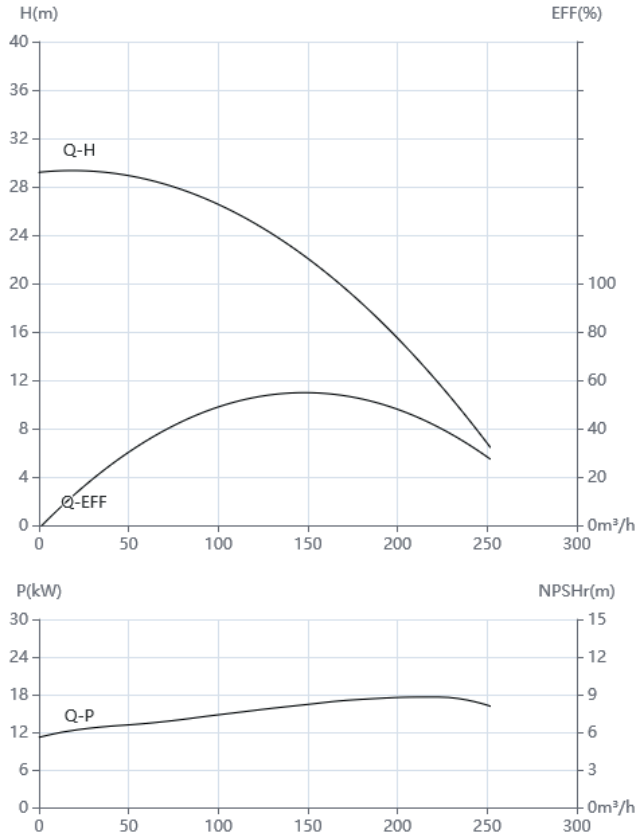
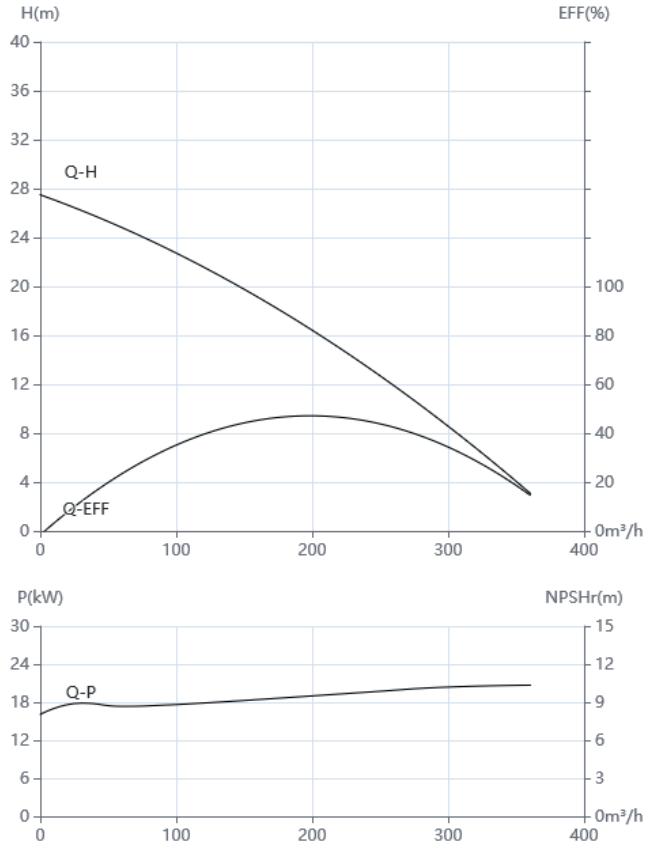


200SSC180-18-18.5



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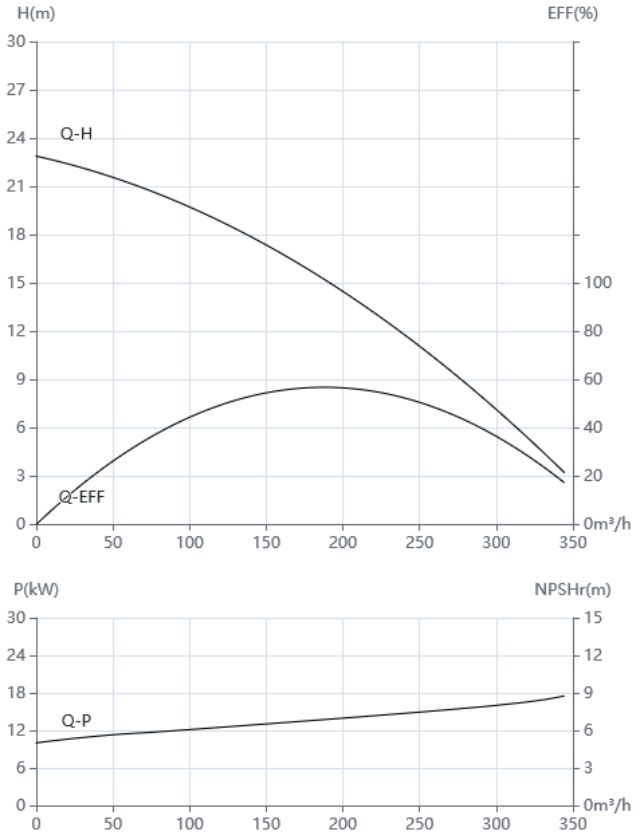

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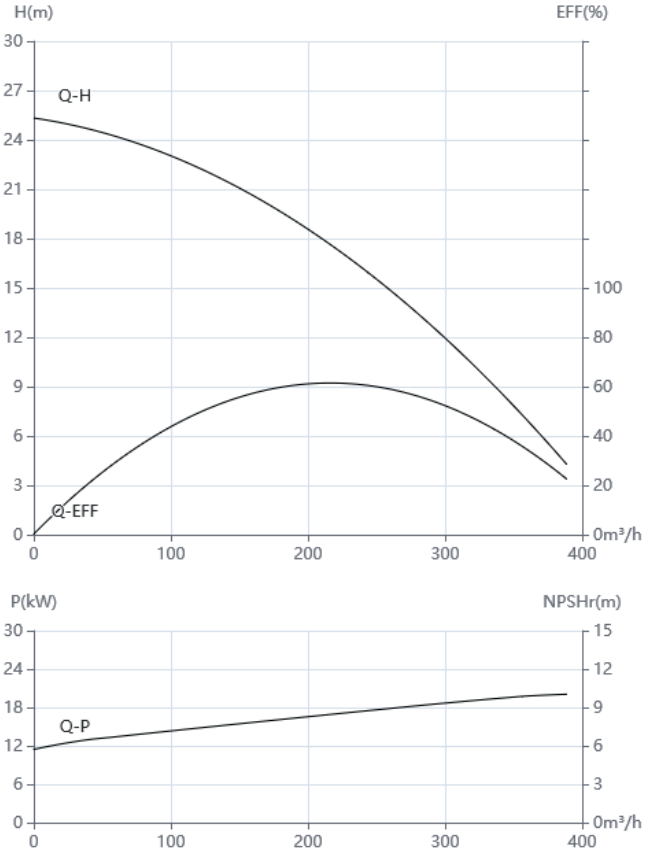

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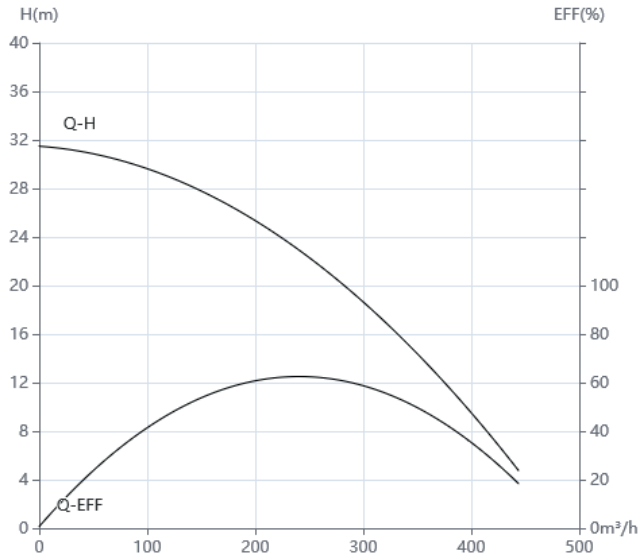
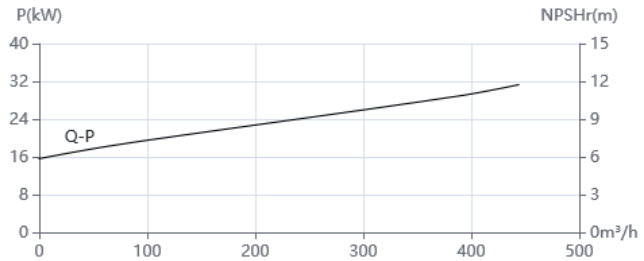
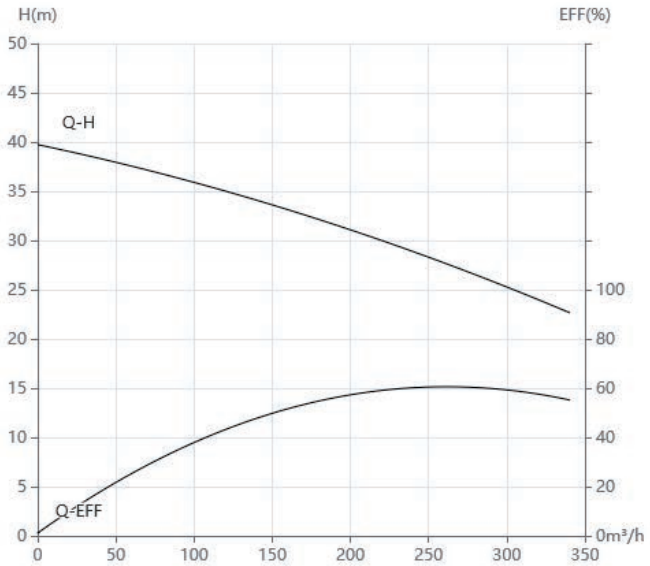
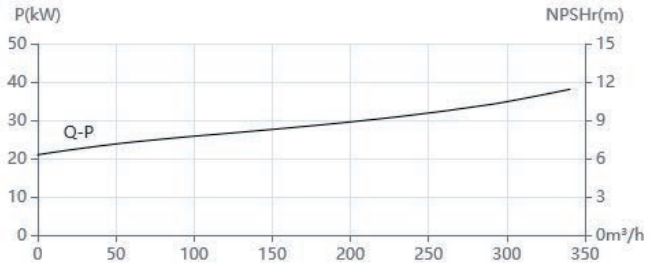


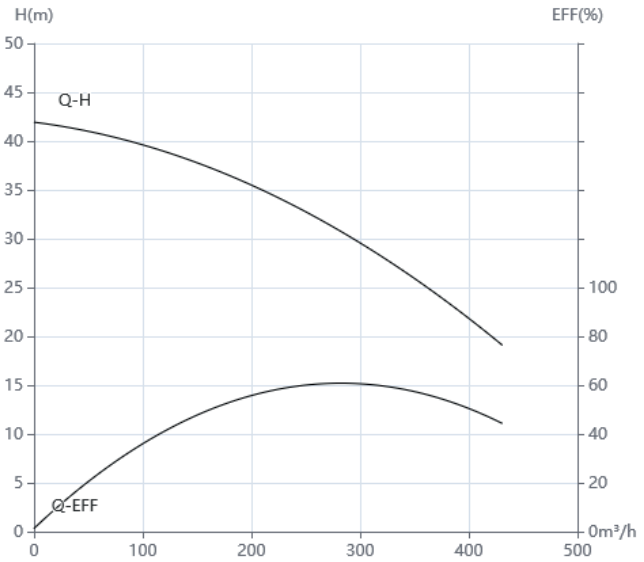


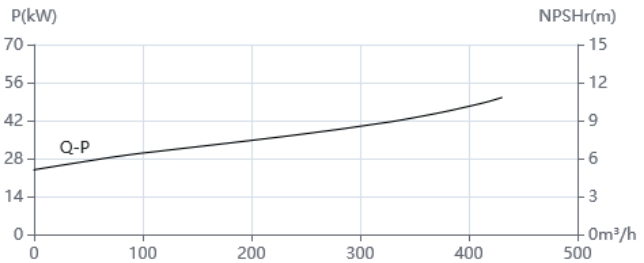
200SSC300-28-37





200SSC300-32-45





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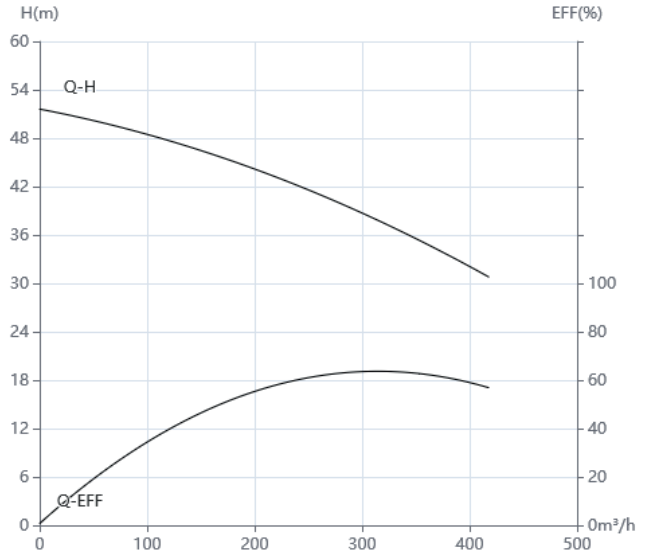
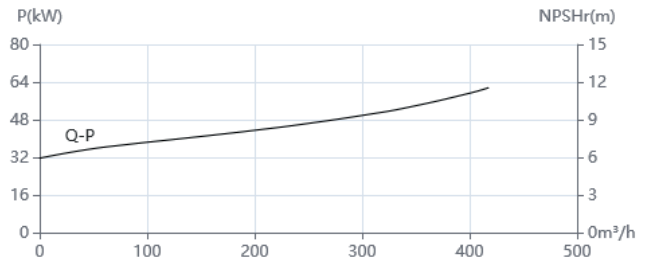
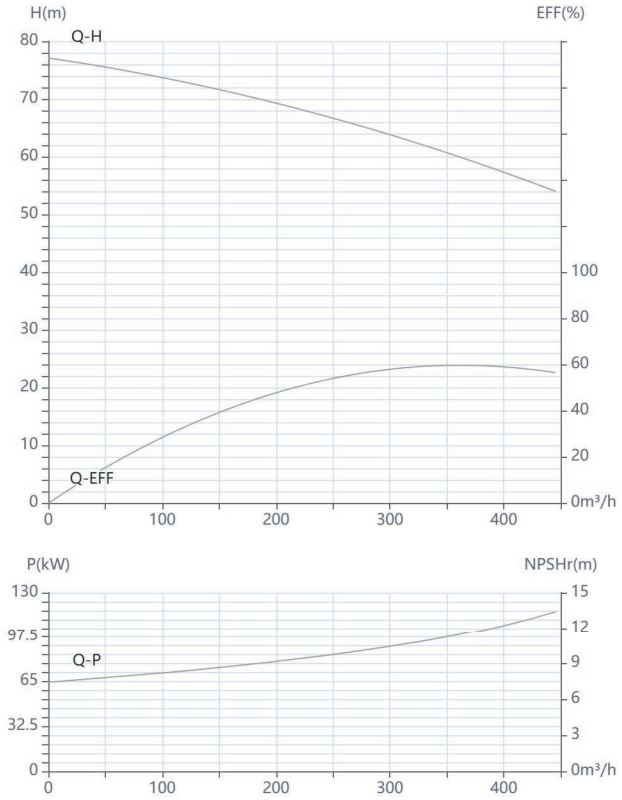




200SSC300-55-110



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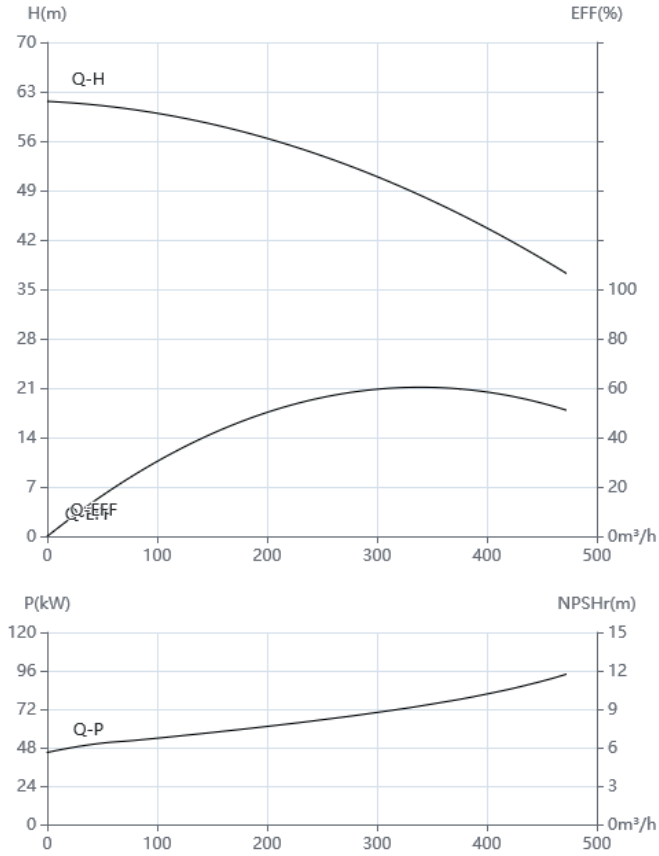
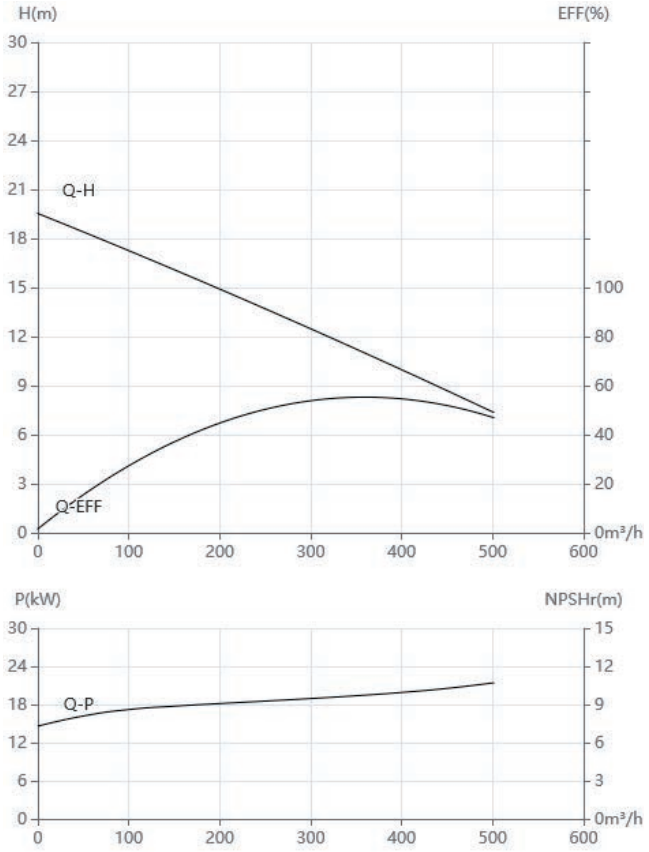
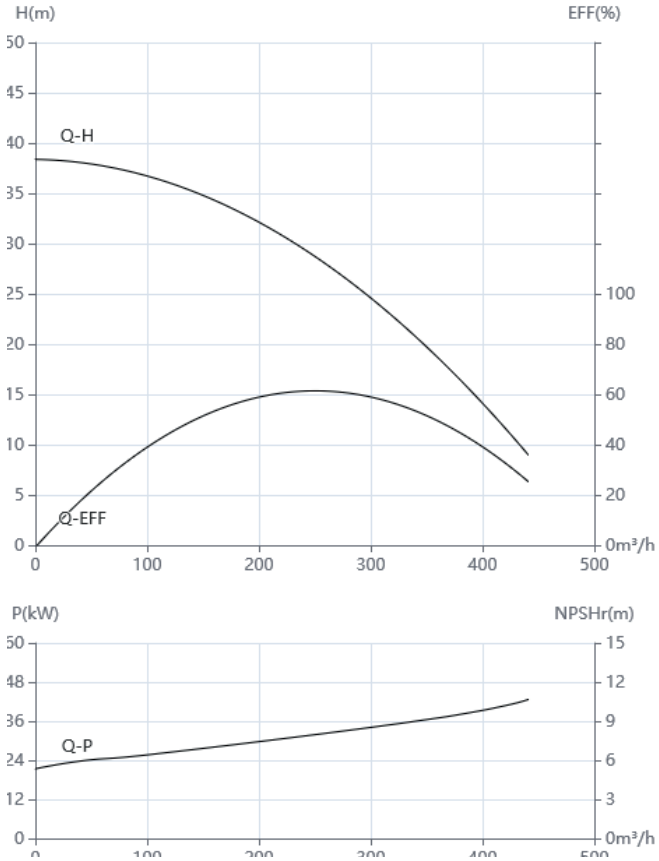


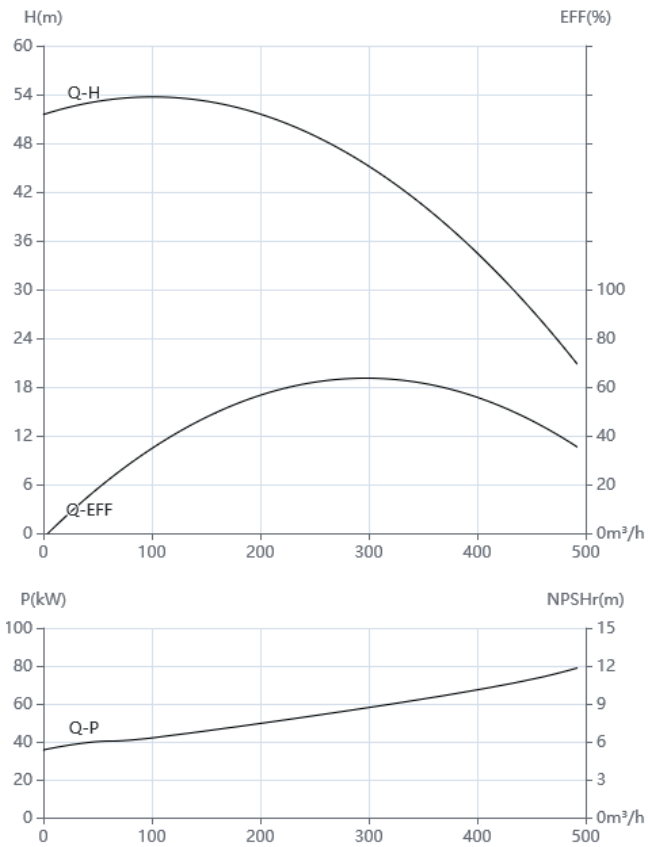
200SSC350-10-18.5



200SSC350-25-37



200SSC350-45-75



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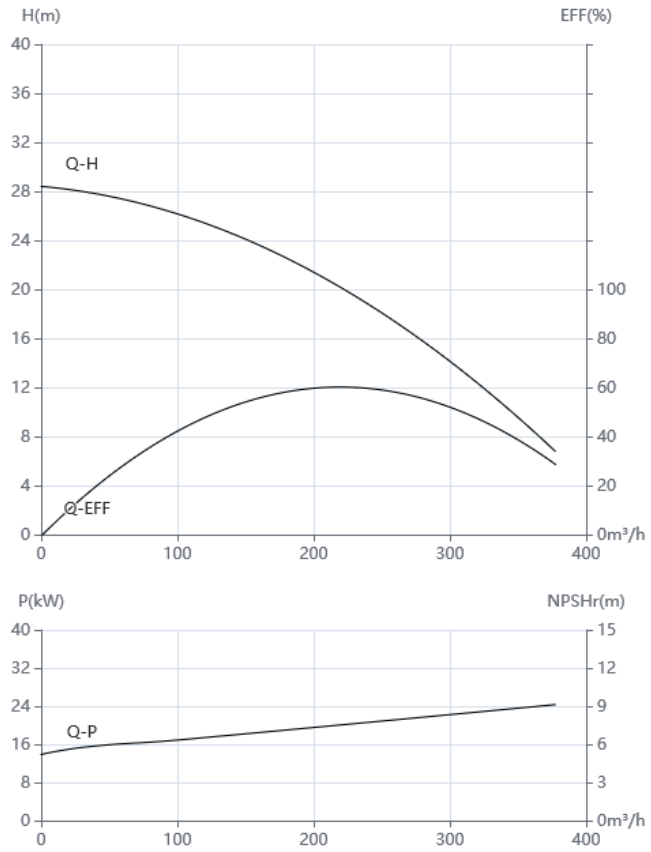
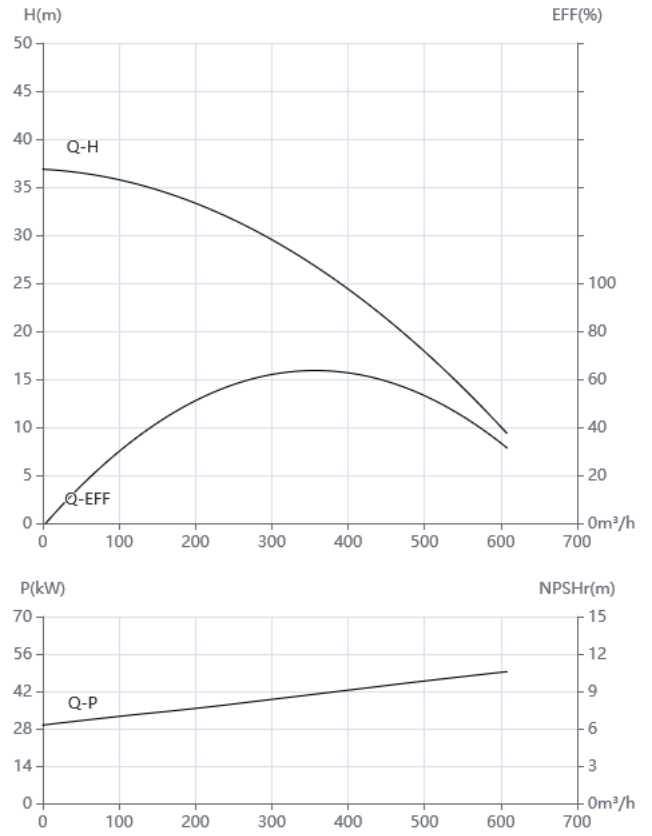
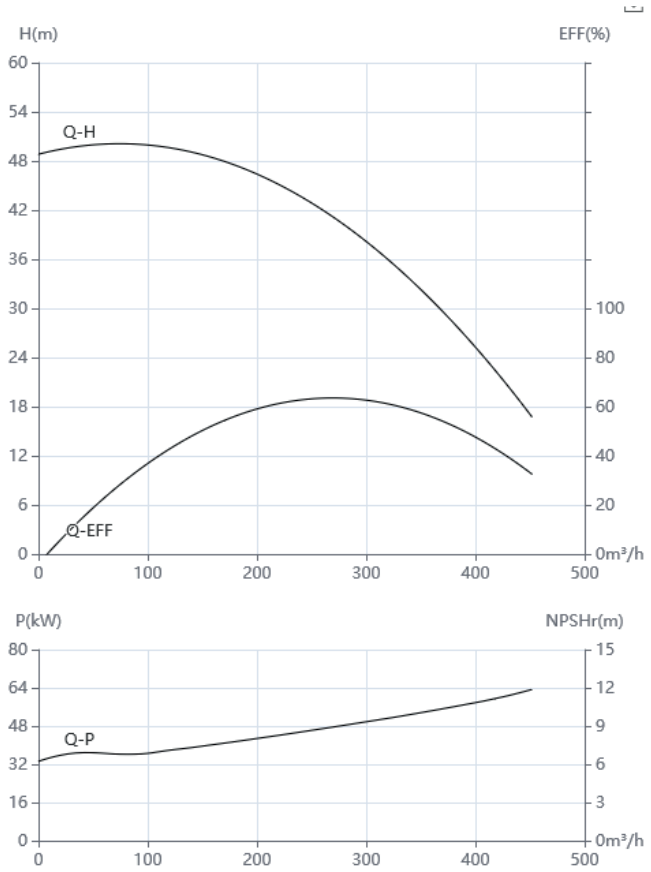


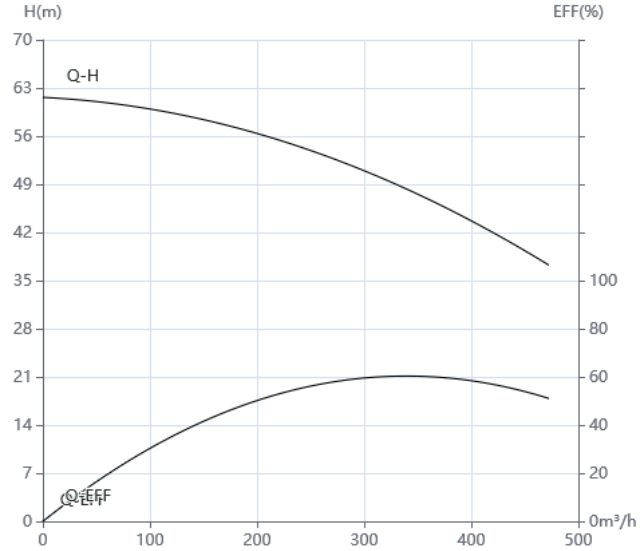
200SSC400-25-45

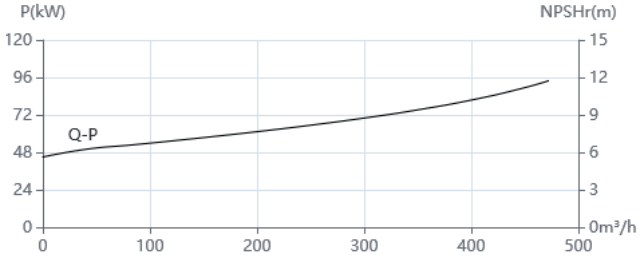


200SSC400-30-55

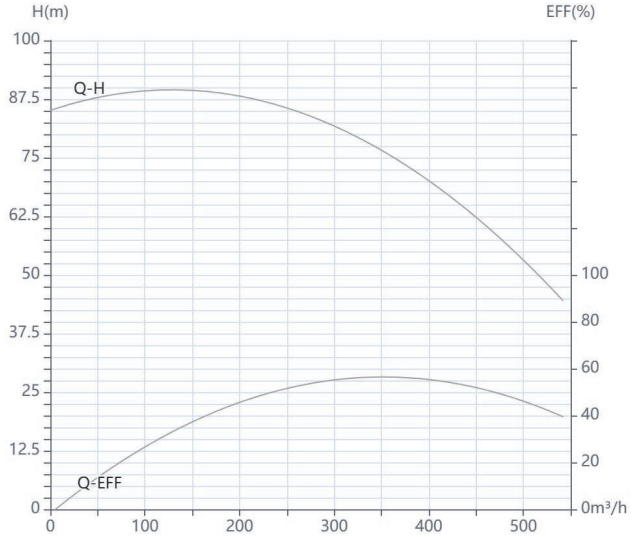


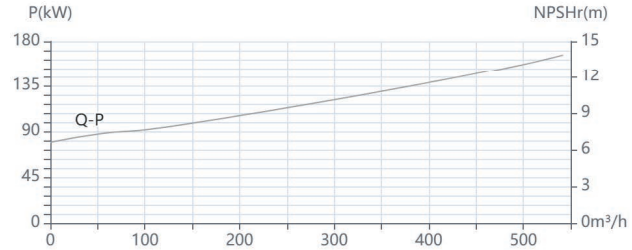
200SSC400-50-90



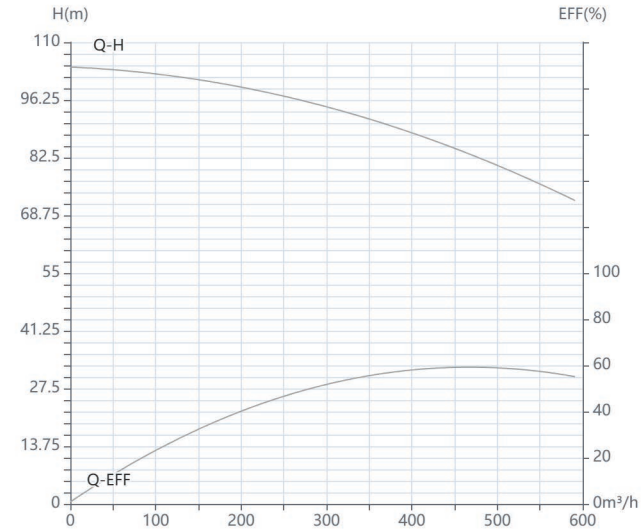


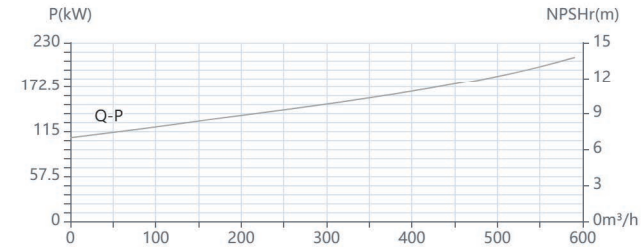
200SSC400-75-132



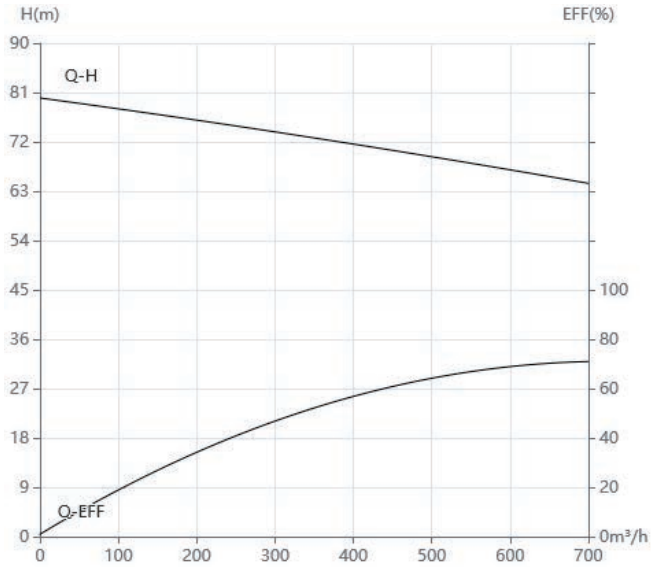


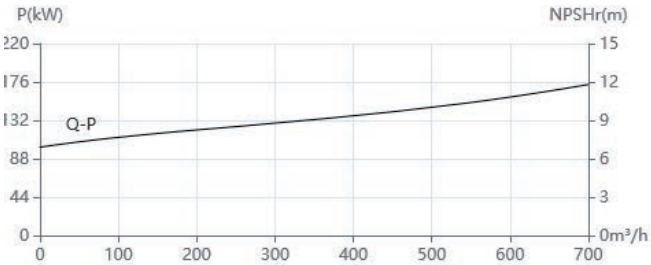
200SSC400-85-185



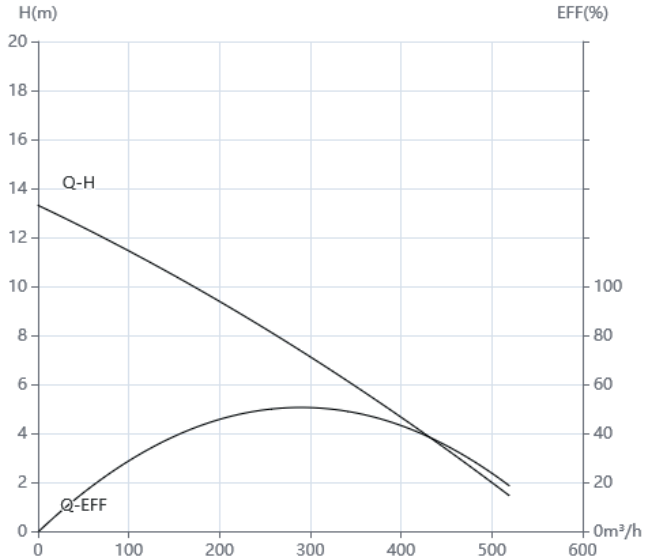


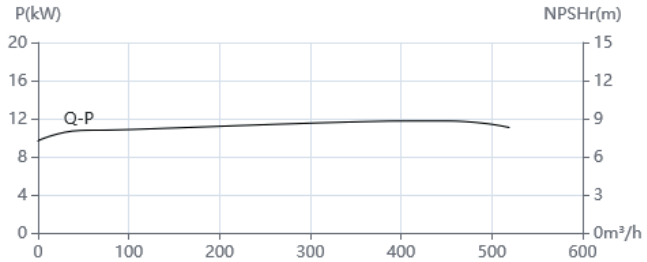
200SSC500-70-185



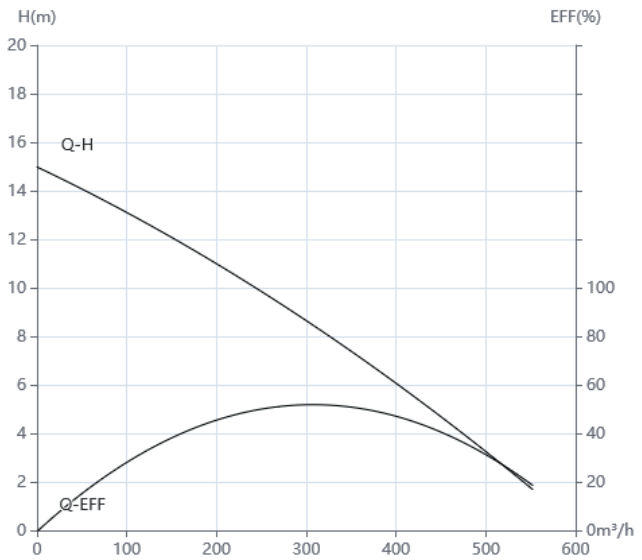


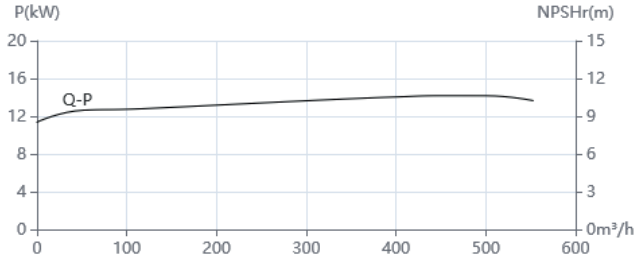
250SSC400-5-11



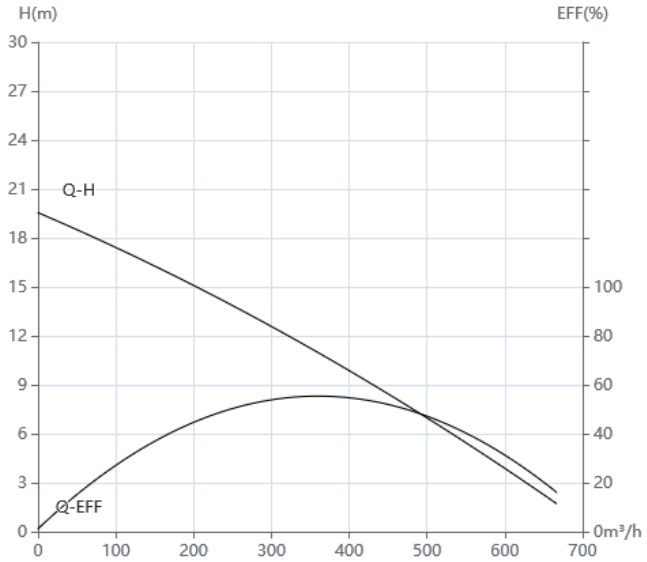


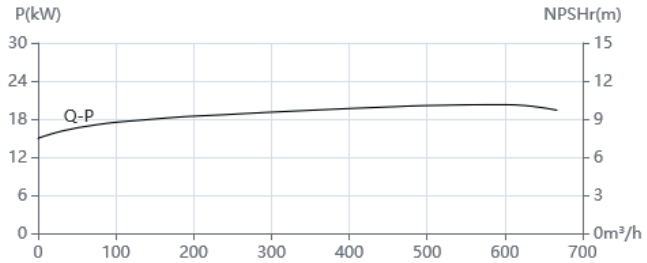
250SSC500-5-15





250SSC500-7-18.5





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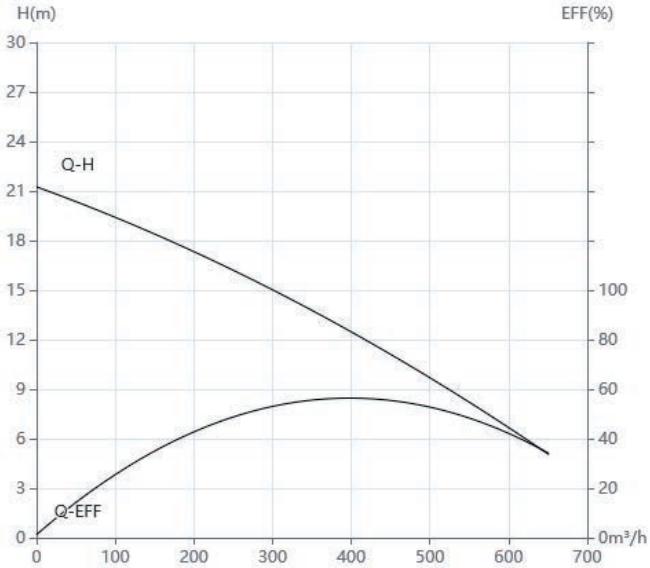
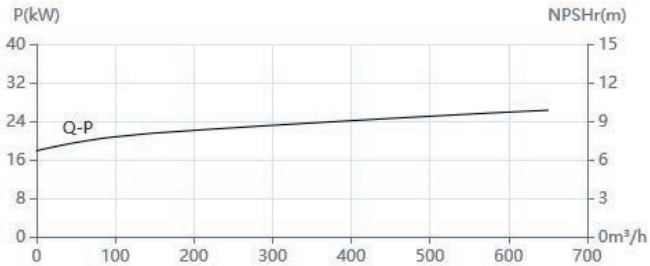
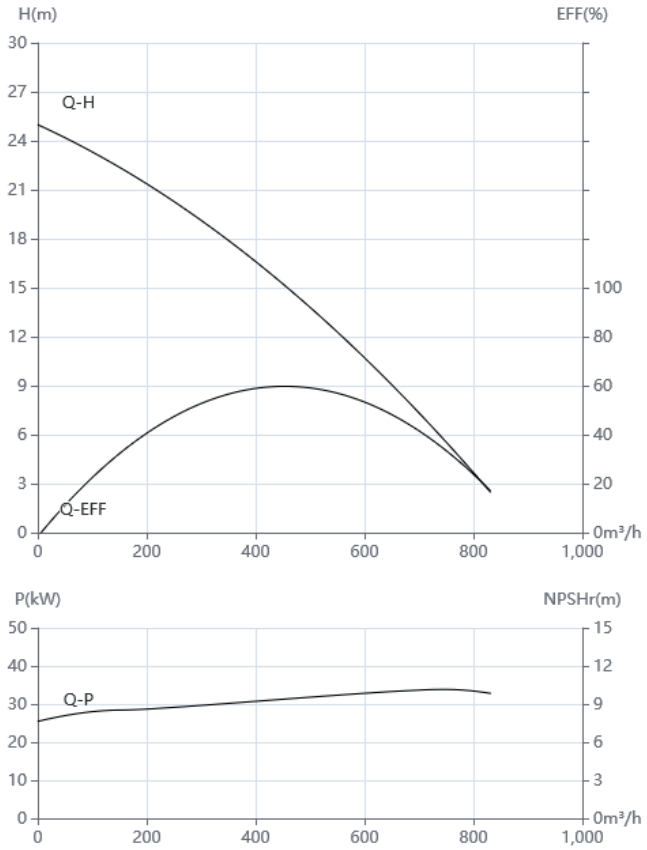
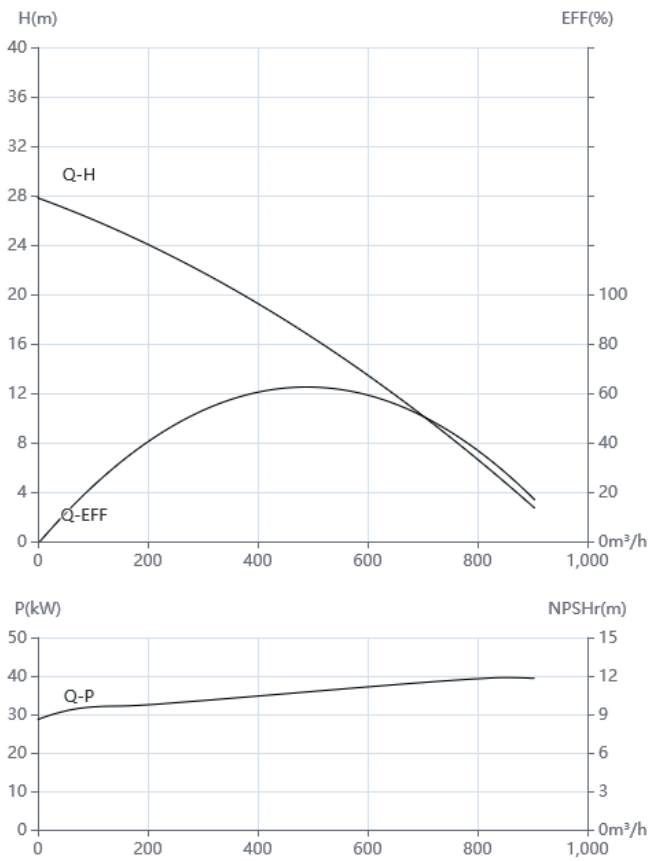




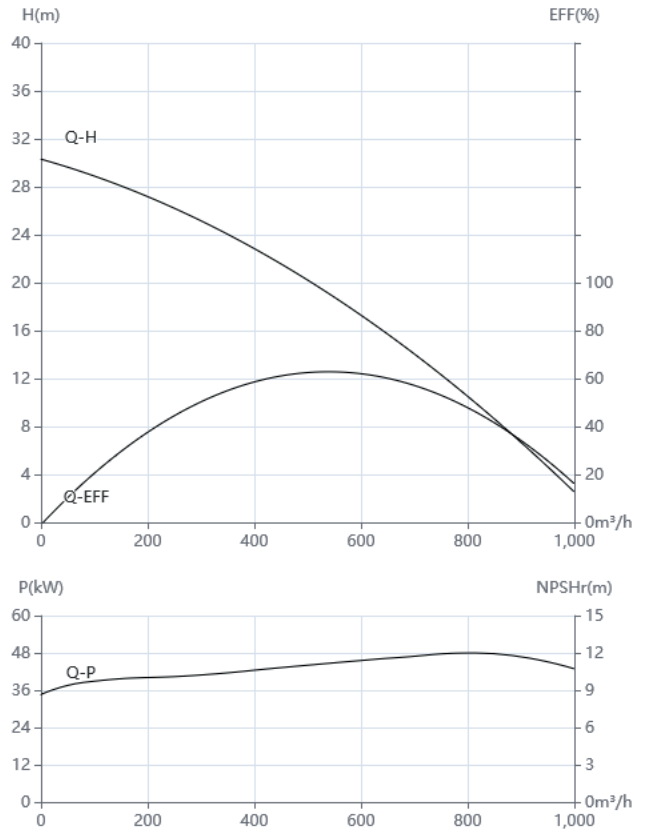
250SSC500-12-30



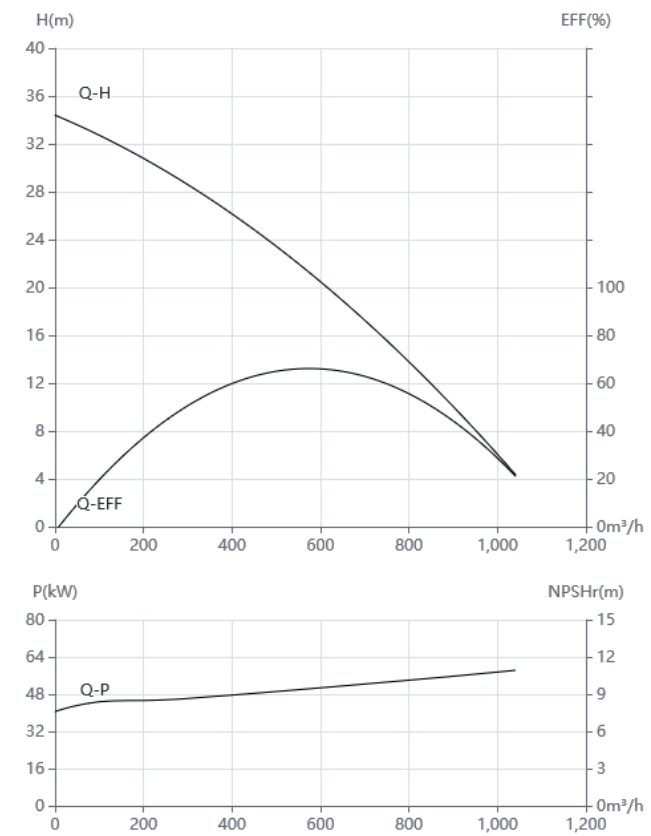
250SSC600-12-37



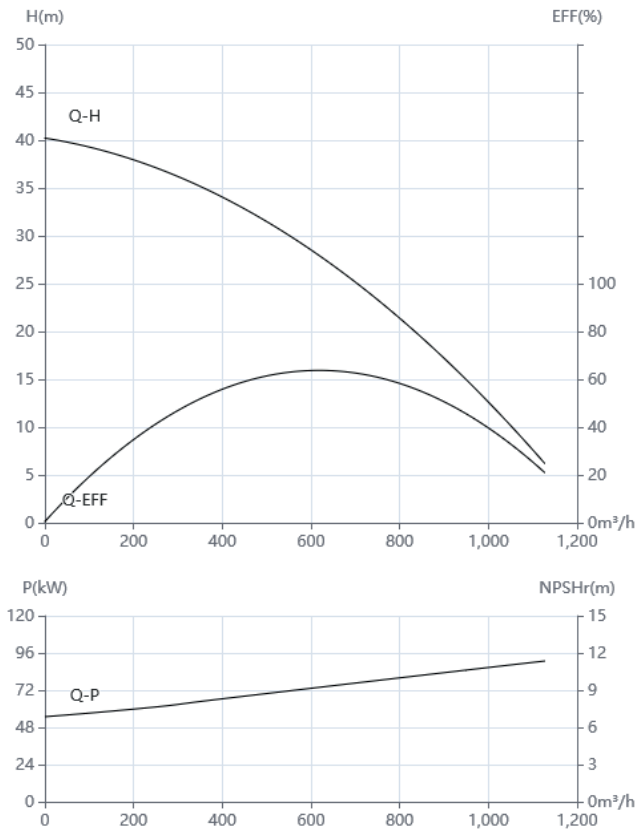
250SSC600-15-45



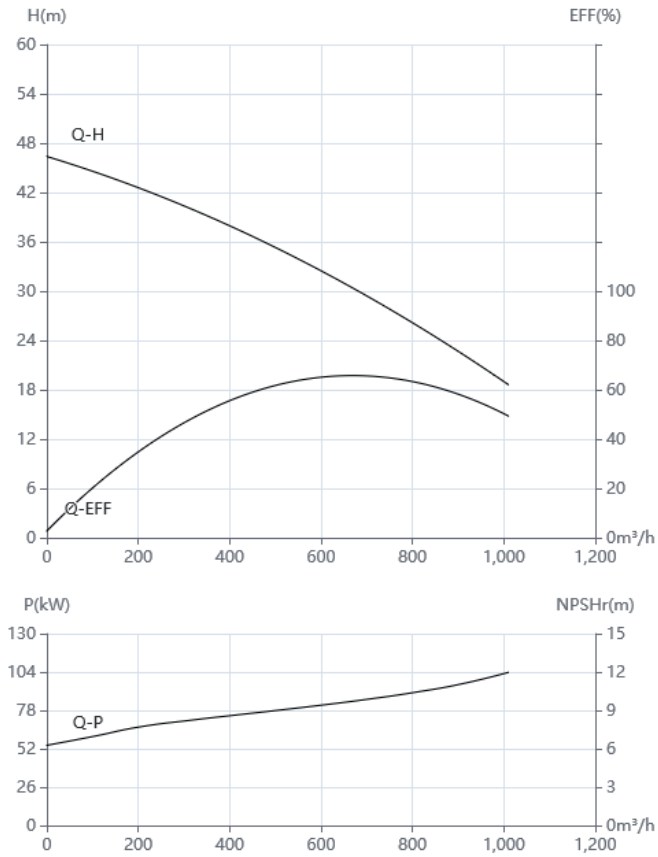
250SSC600-20-55



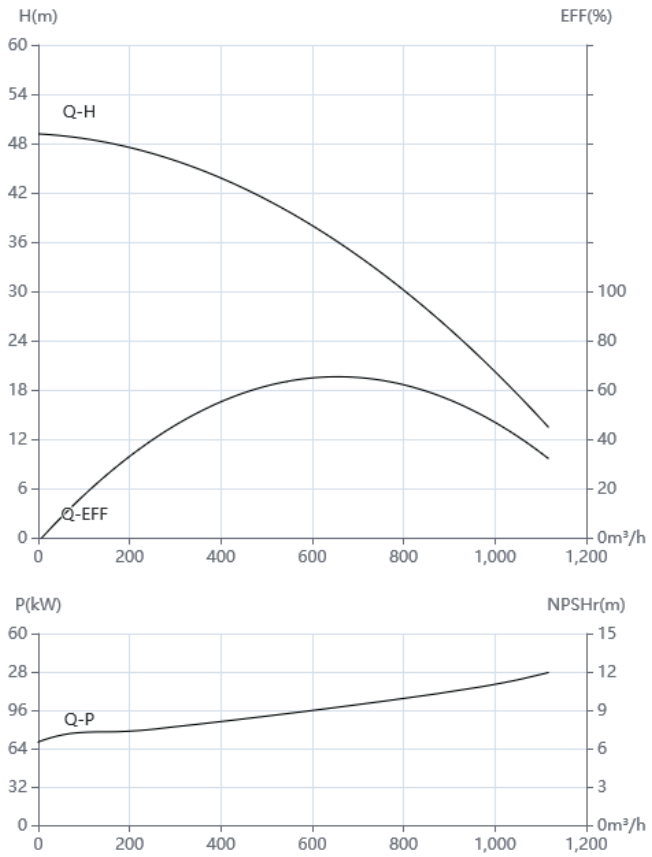
250SSC600-25-75



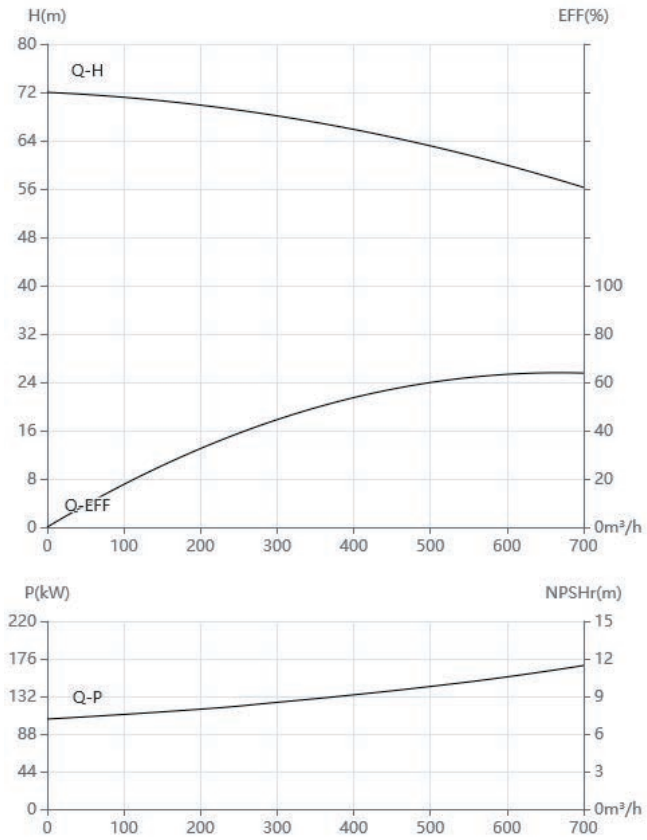
250SSC600-30-90



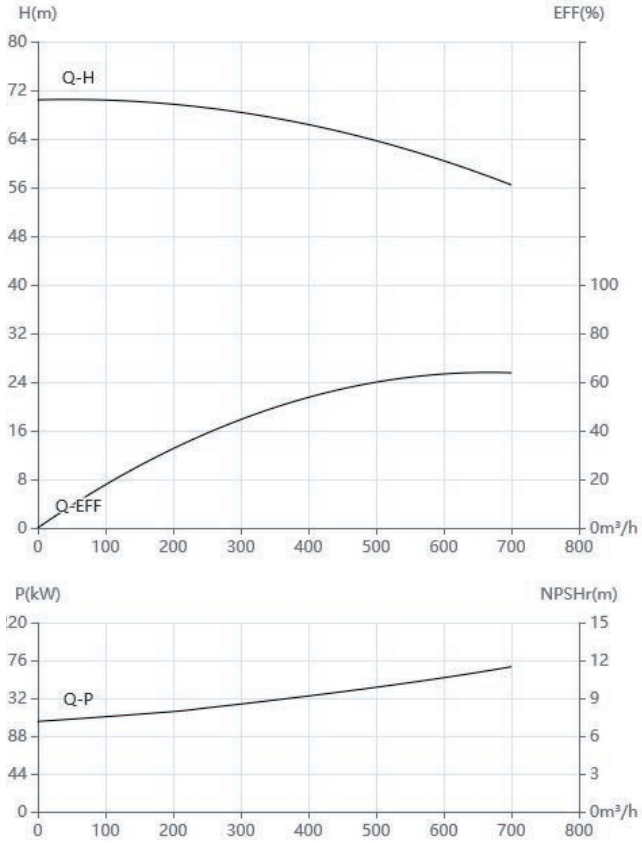
250SSC600-40-110



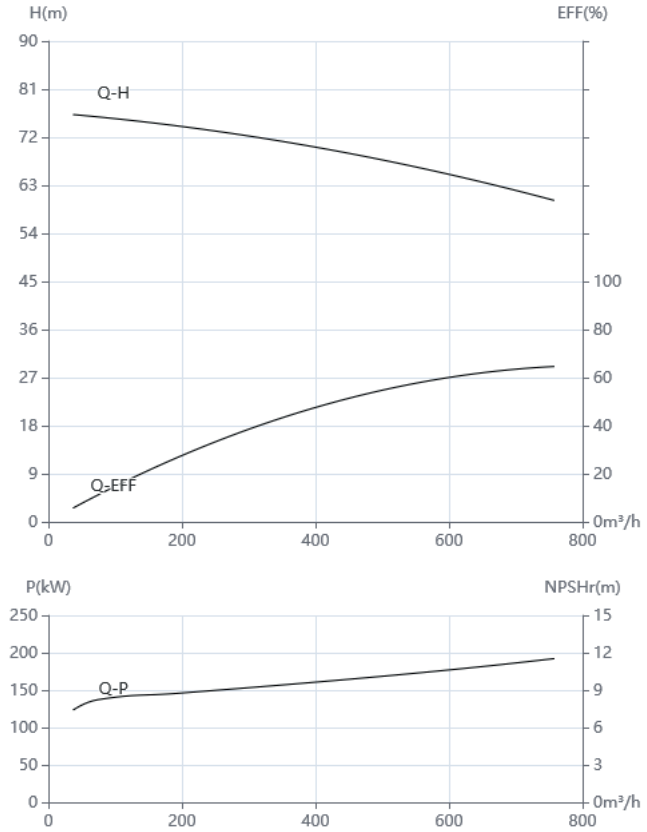
250SSC600-50-160



250SSC600-60-160



250SSC600-65-200



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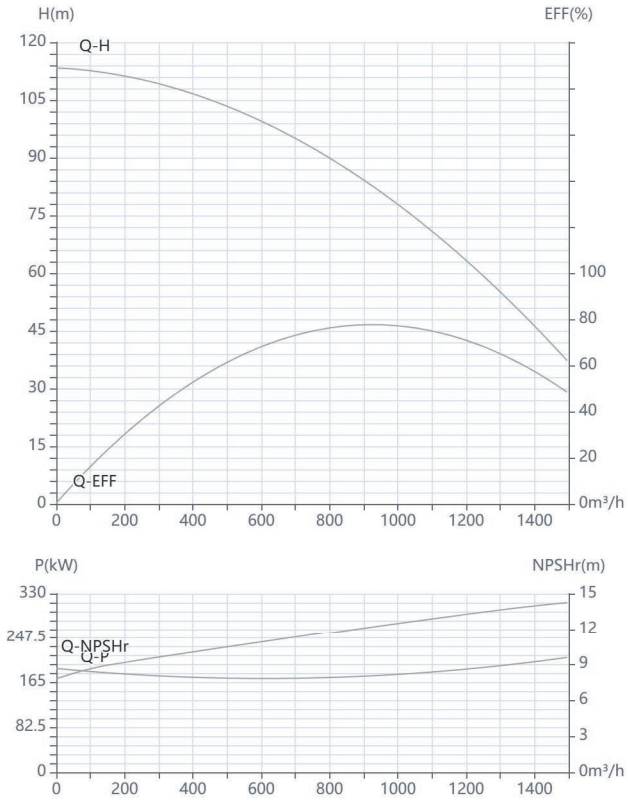
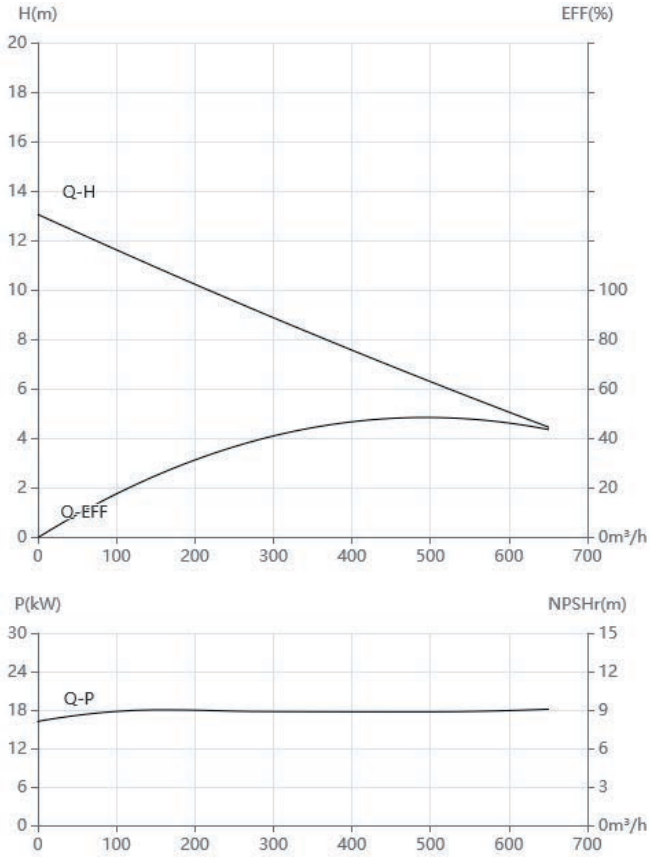


300SSC650-5-18.5



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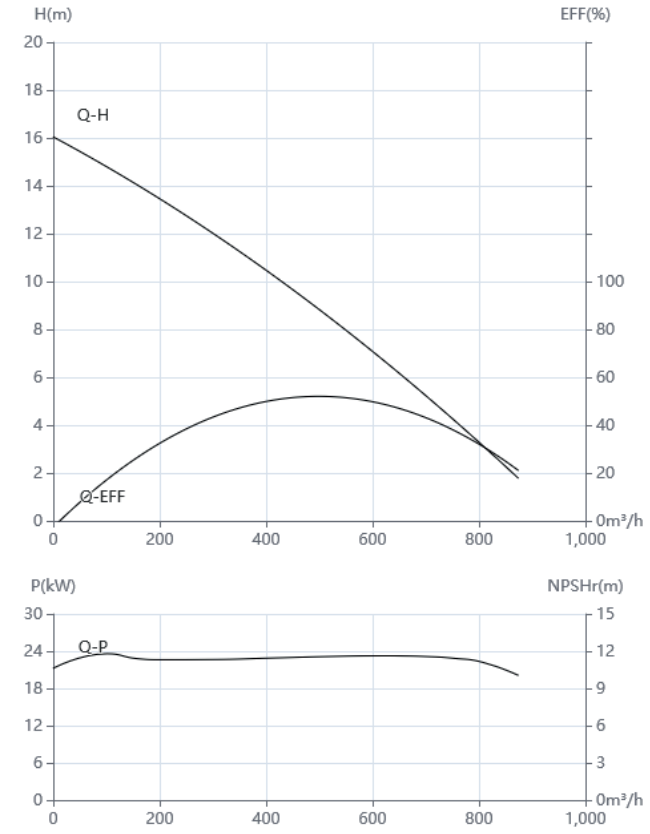
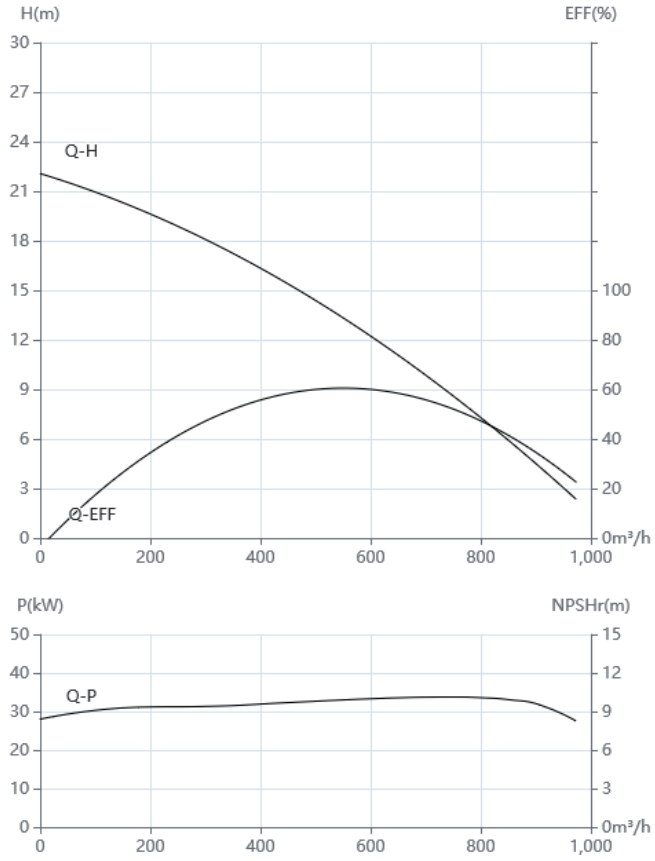
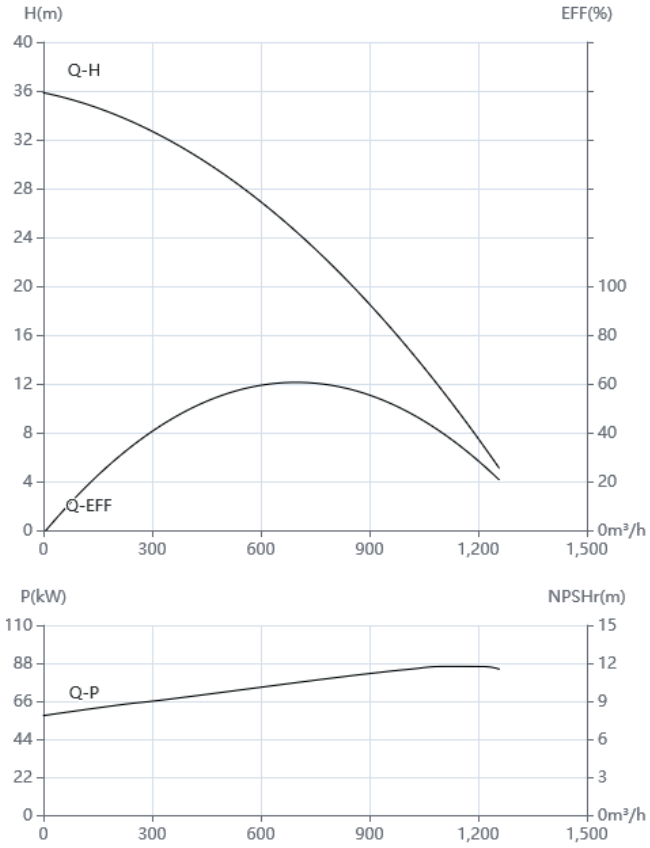


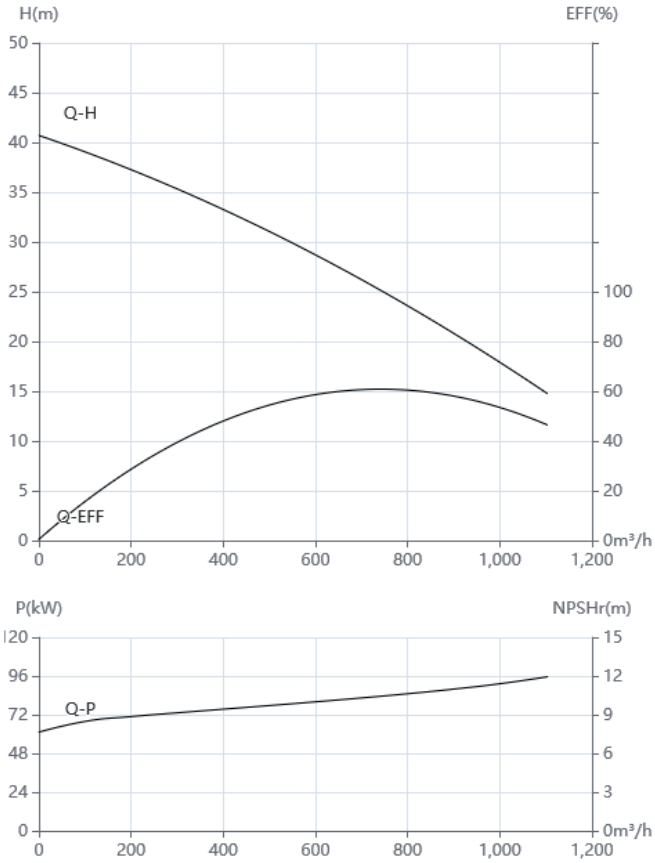
300SSC800-7-30



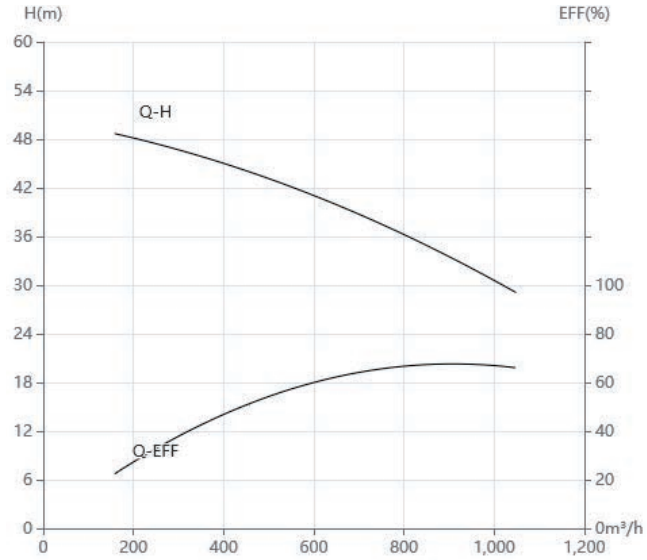
300SSC800-20-75



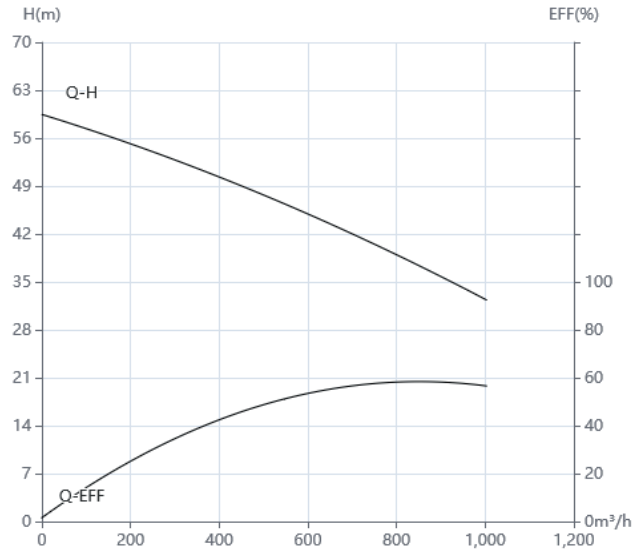
300SSC800-25-90



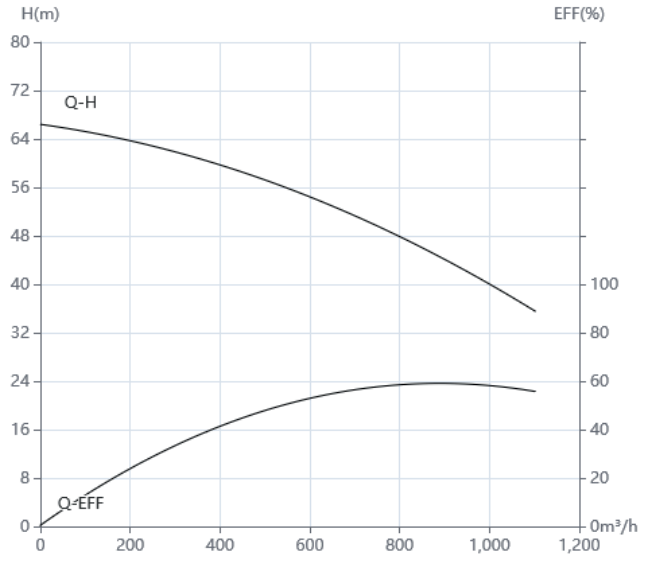
300SSC800-36-132



300SSC800-40-160



300SSC900-40-185



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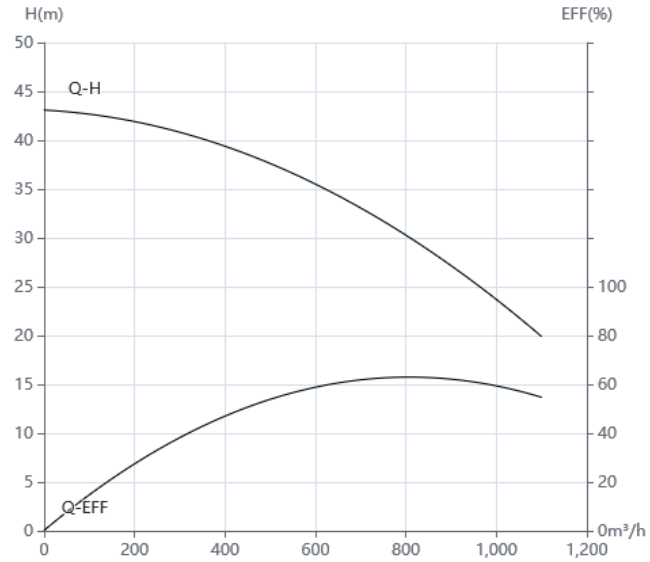
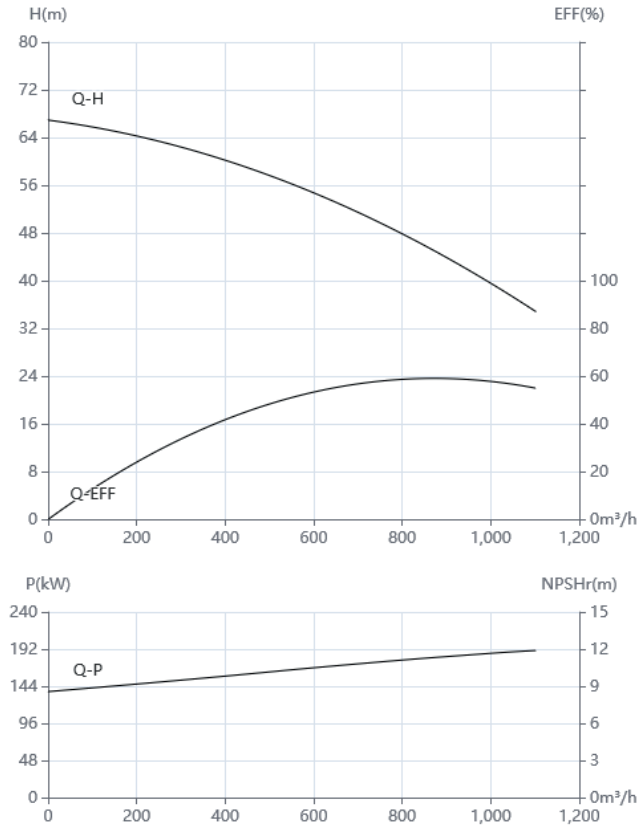
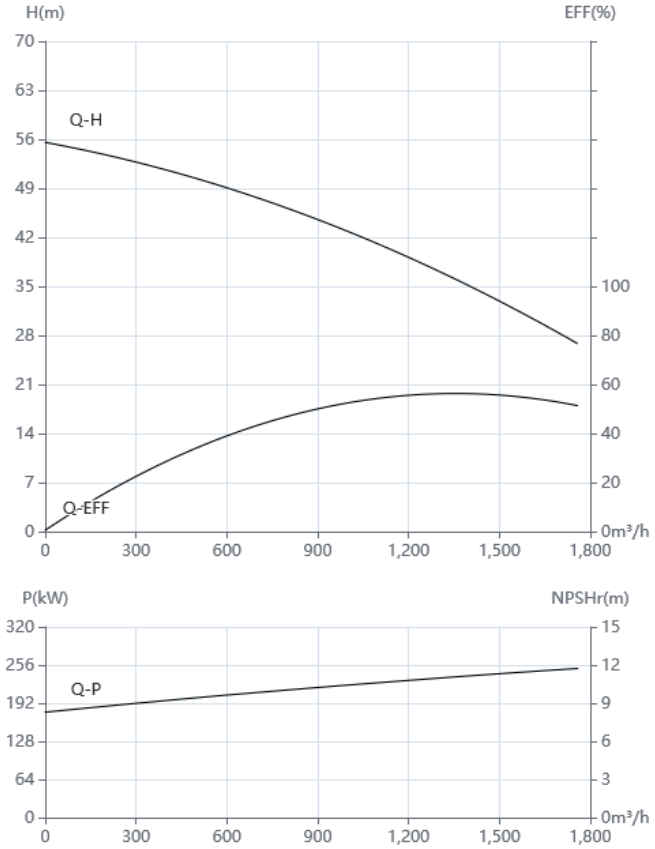


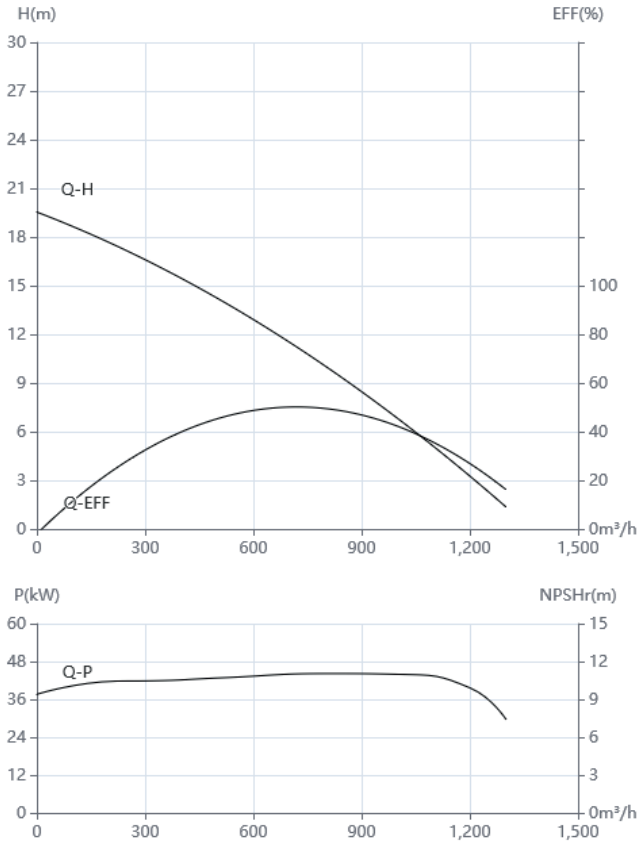
300SSC1000-45-200



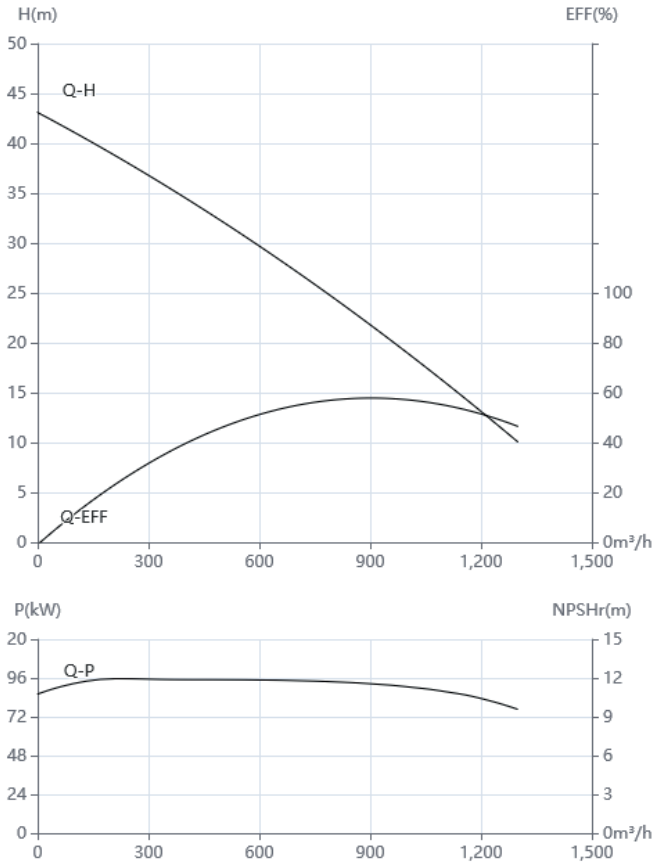
300SSC1200-45-250



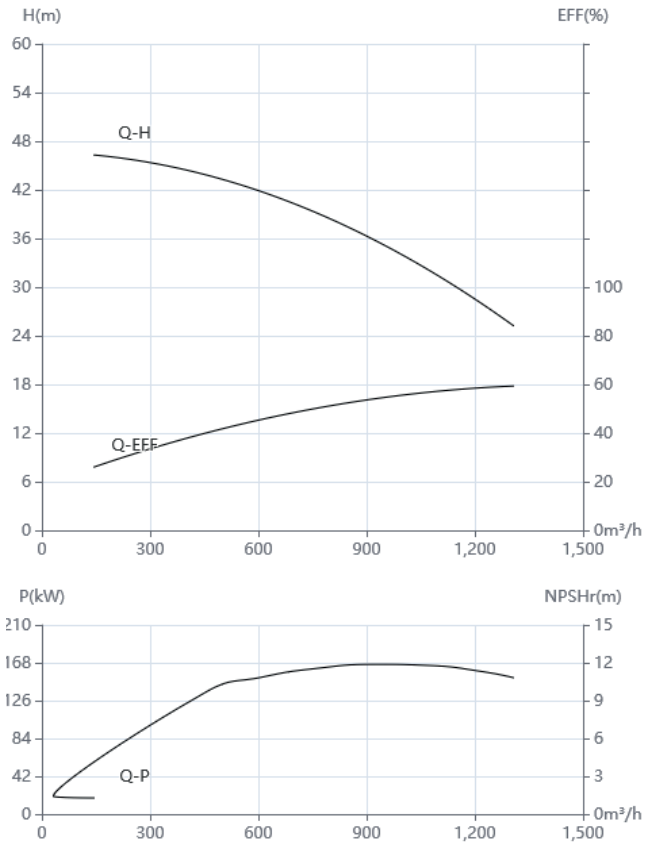
350SSC1000-6-37



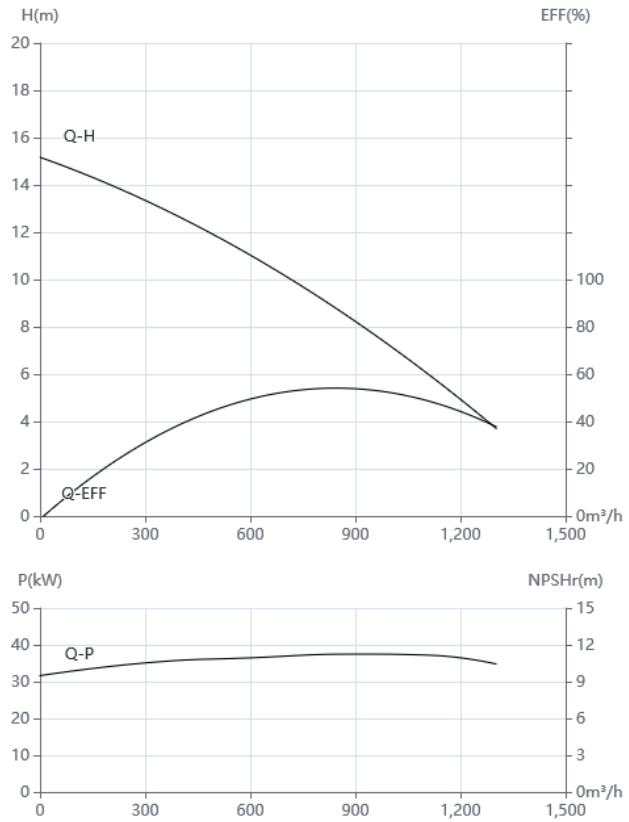
350SSC1000-18-90



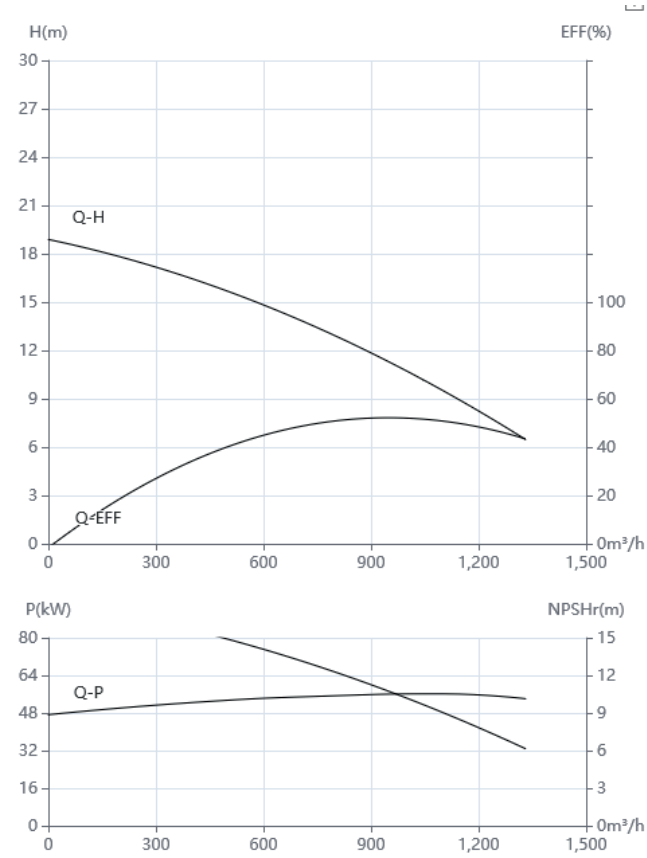
350SSC1000-35-160



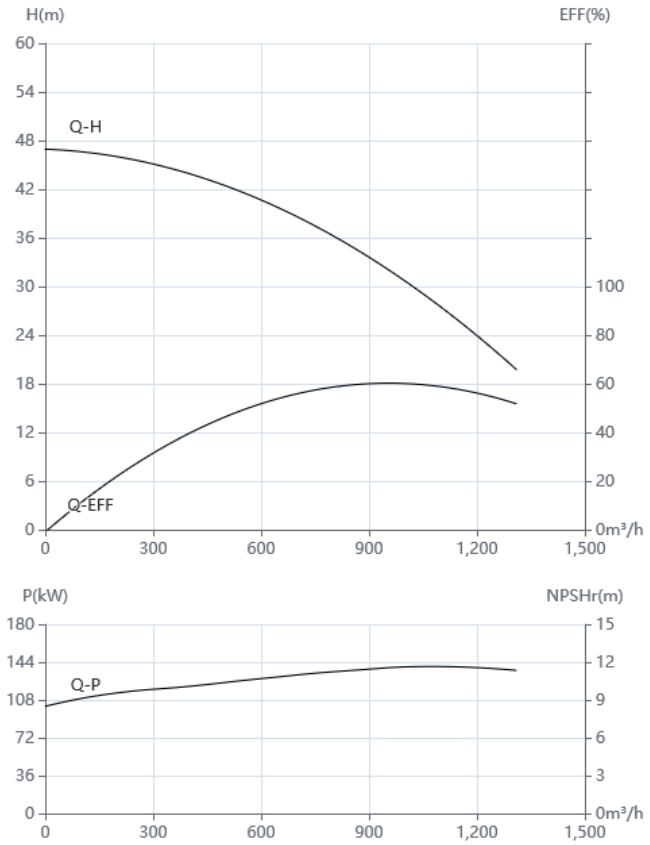
350SSC1100-6-37



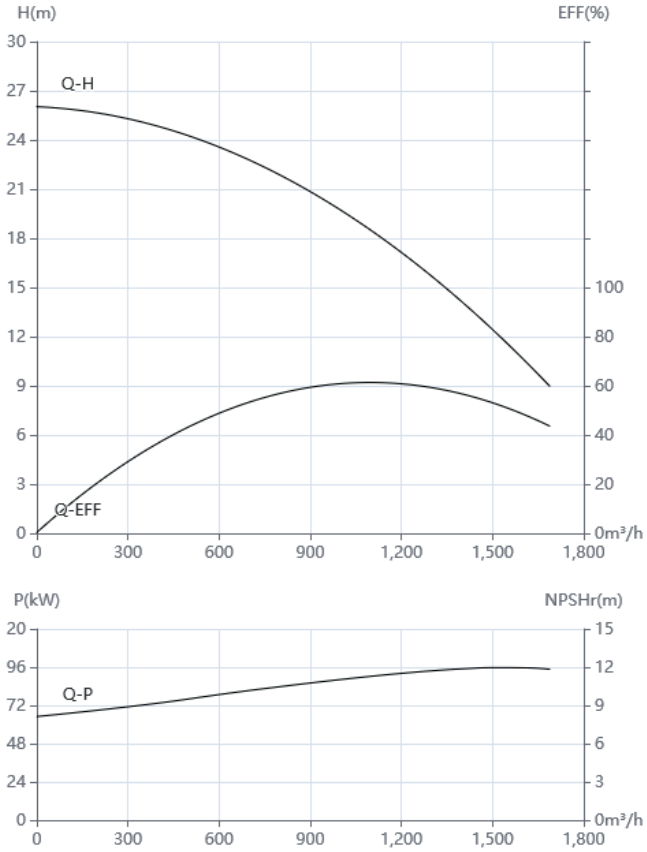
350SSC1100-10-55



350SSC1100-28-132



350SSC1200-18-90



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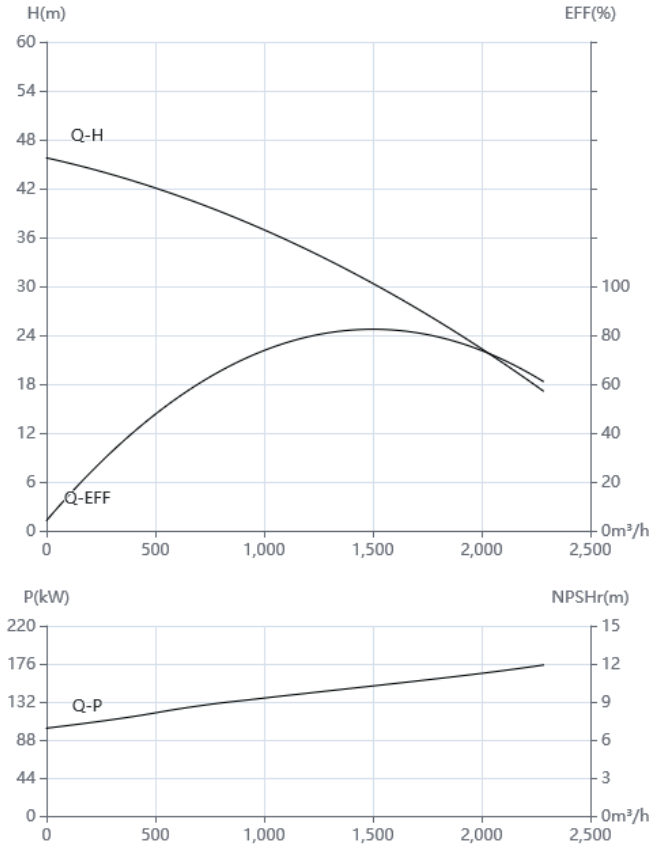
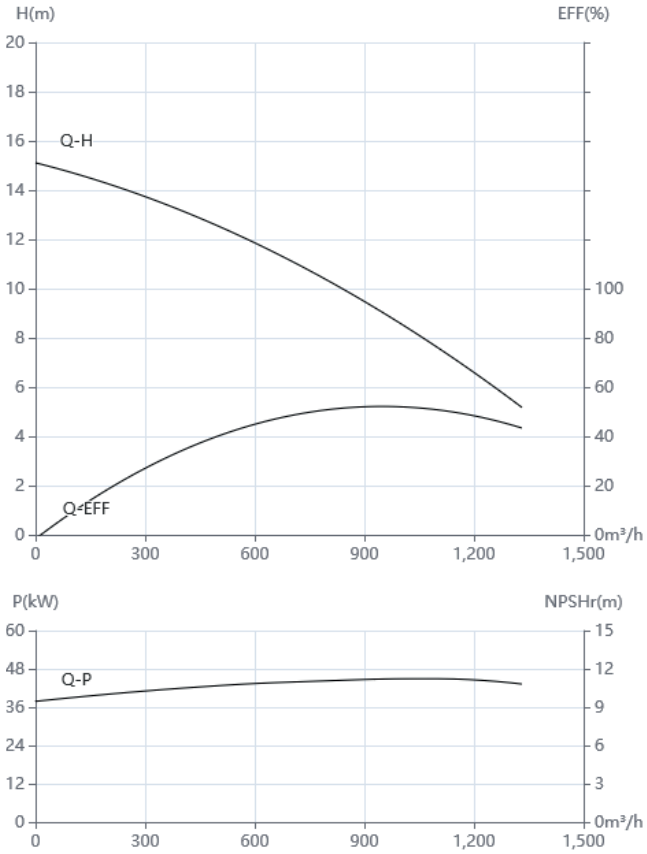
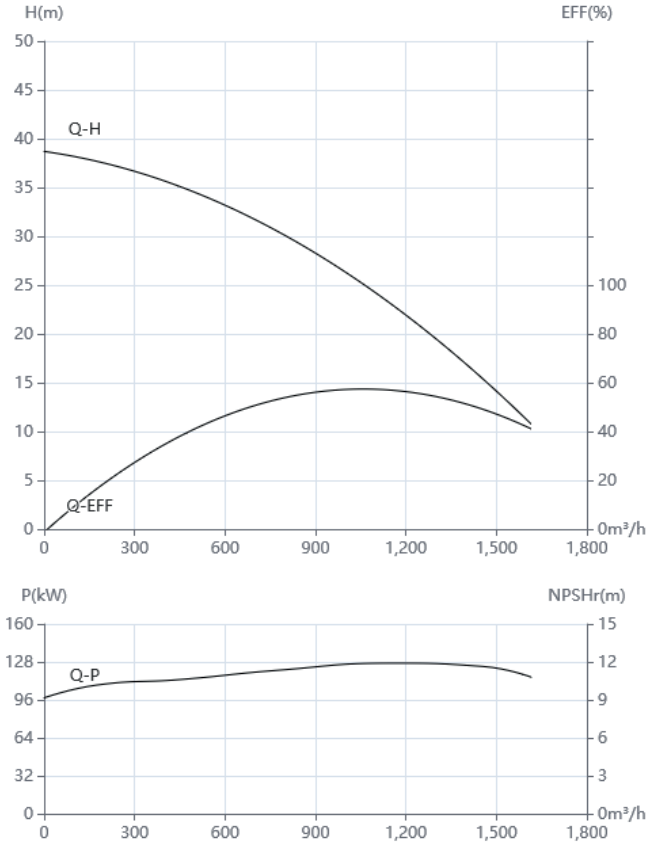


350SSC1300-8-45



350SSC1300-20-110



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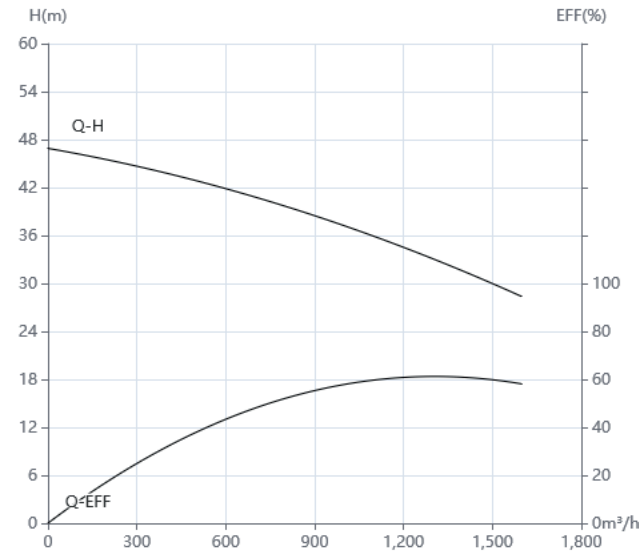

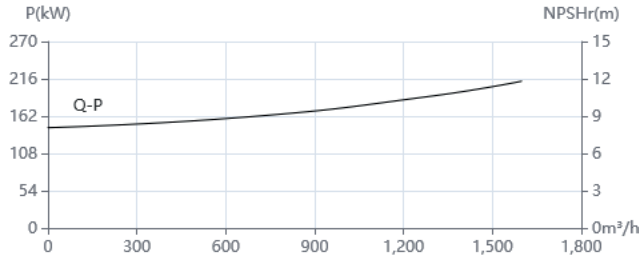

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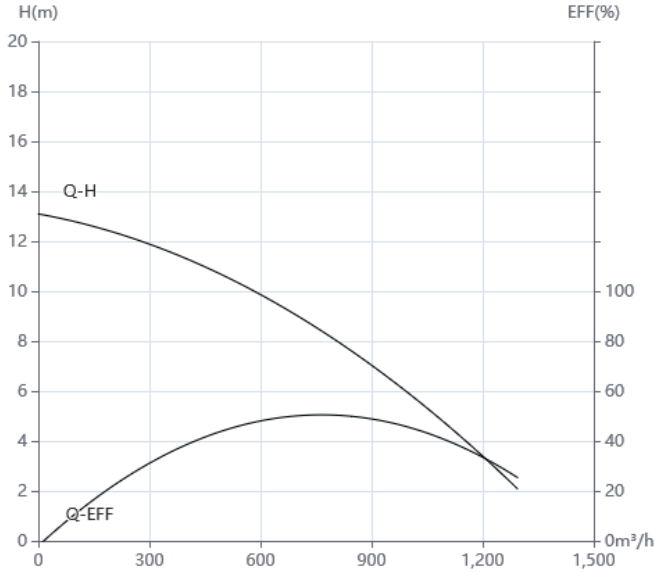
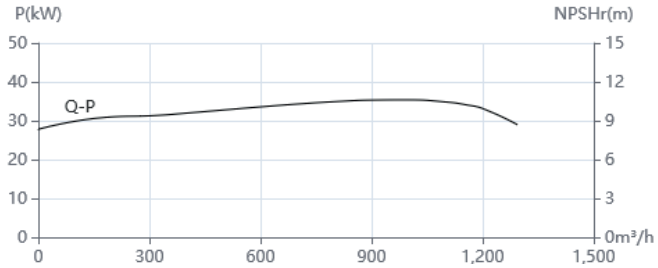
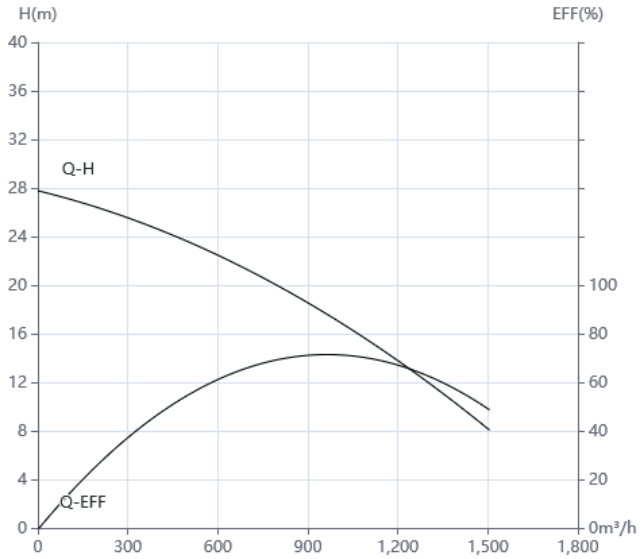
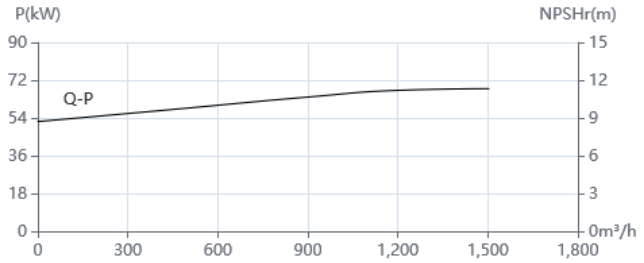


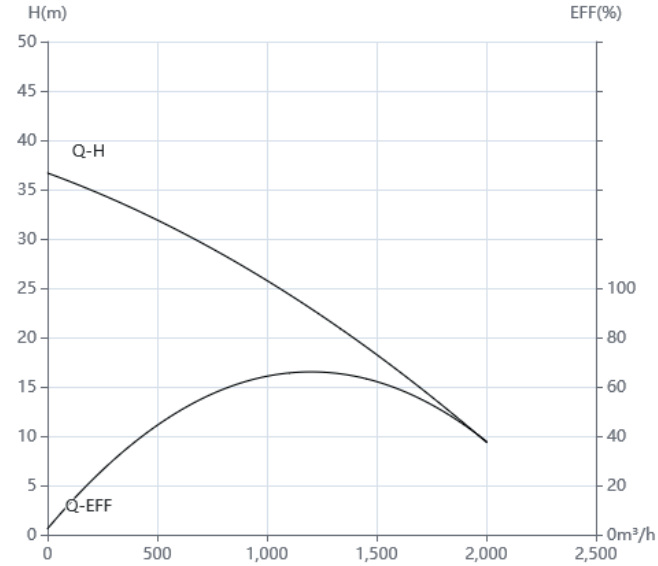


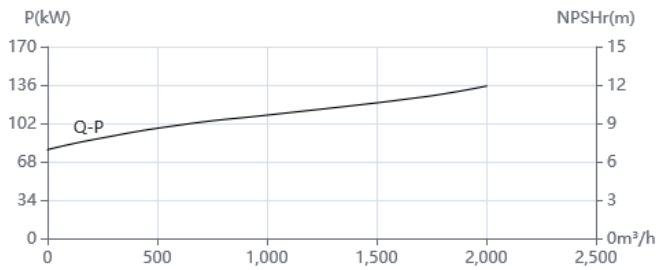
350SSC1500-12-75



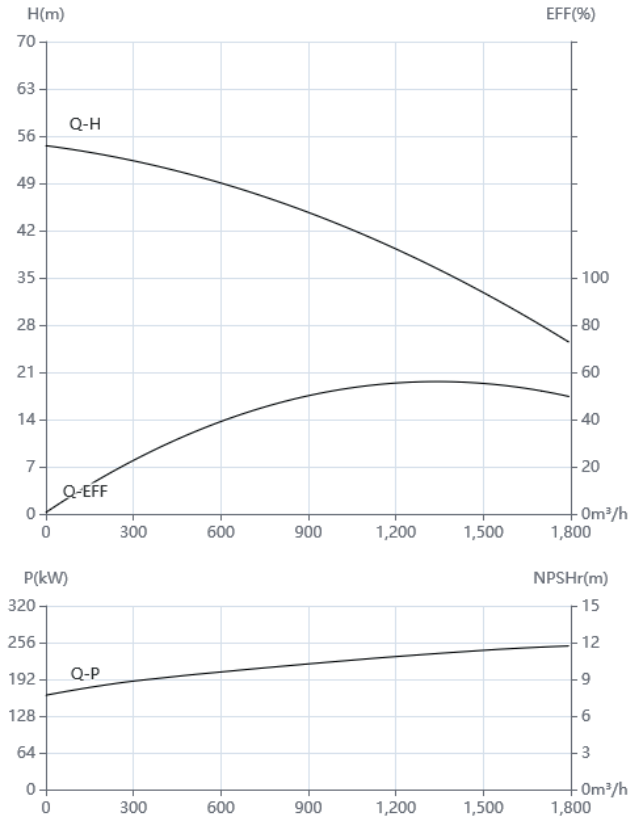


350SSC1500-20-132

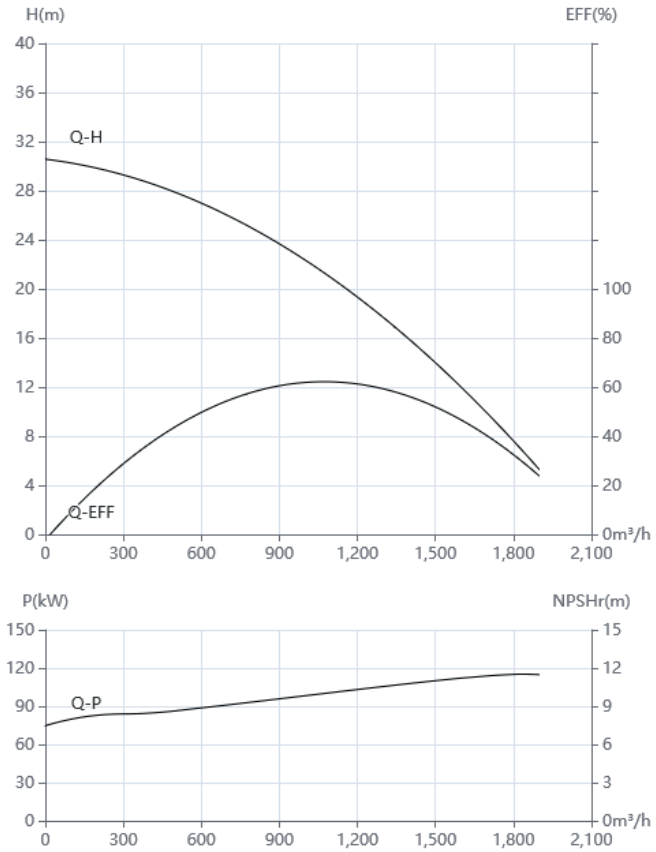




350SSC1500-36-250



350SSC1600-16-110



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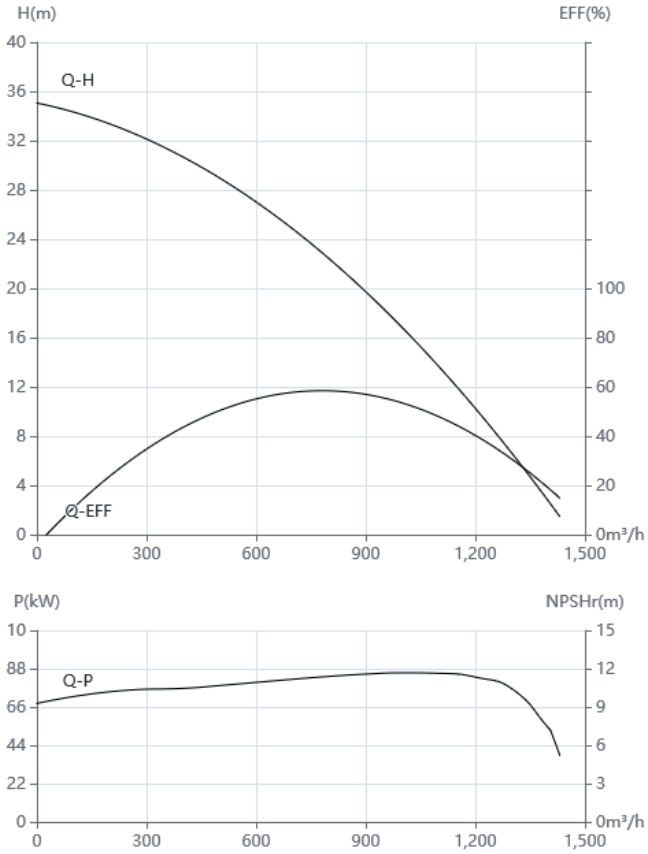
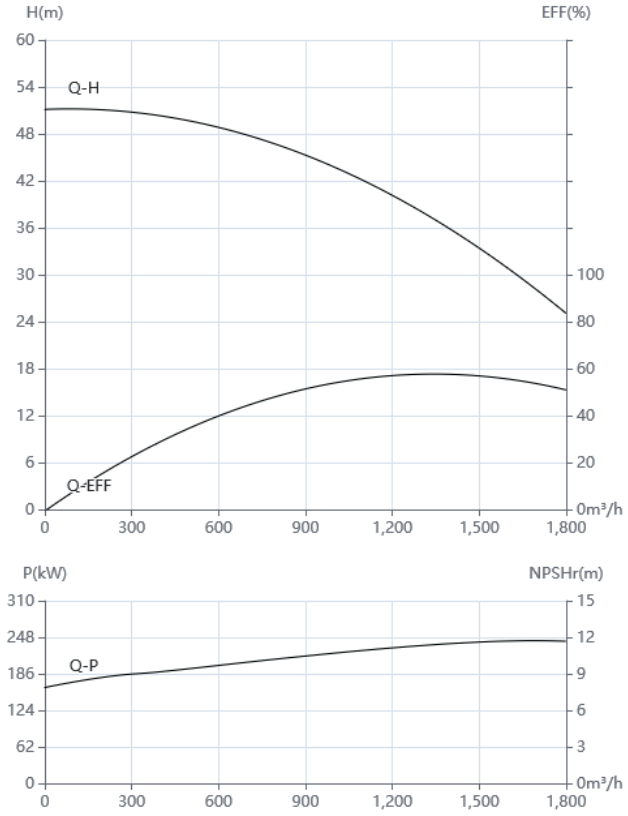


400SSC1400-35-250



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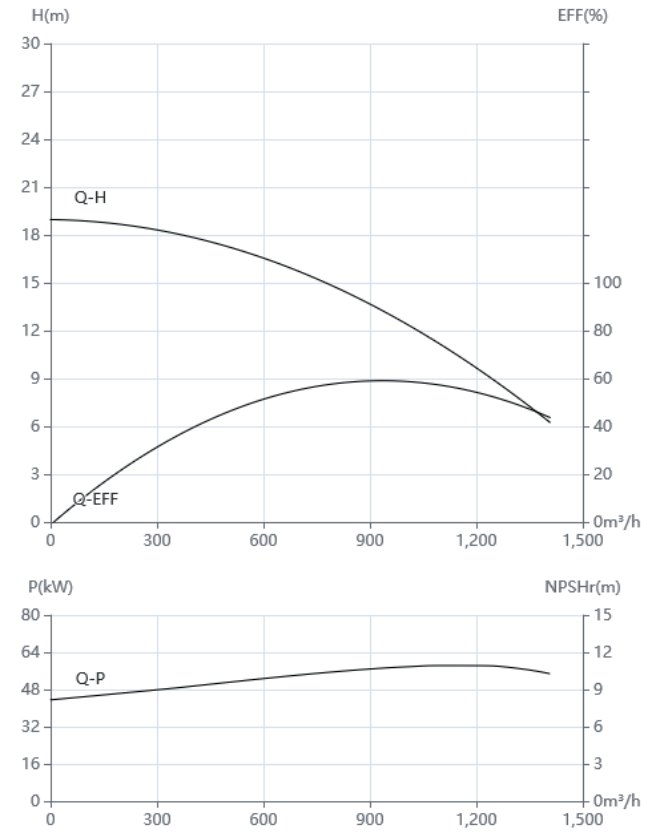
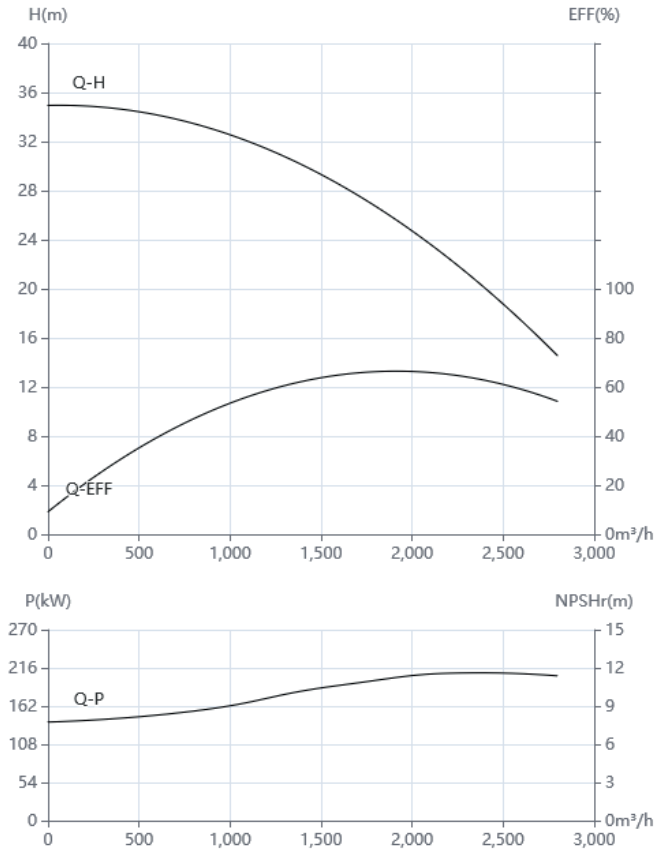
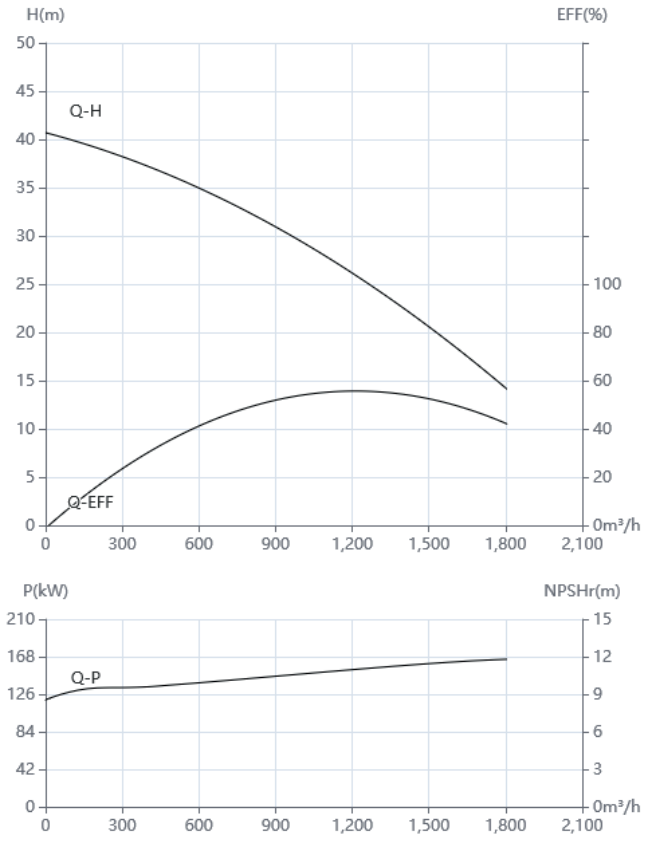


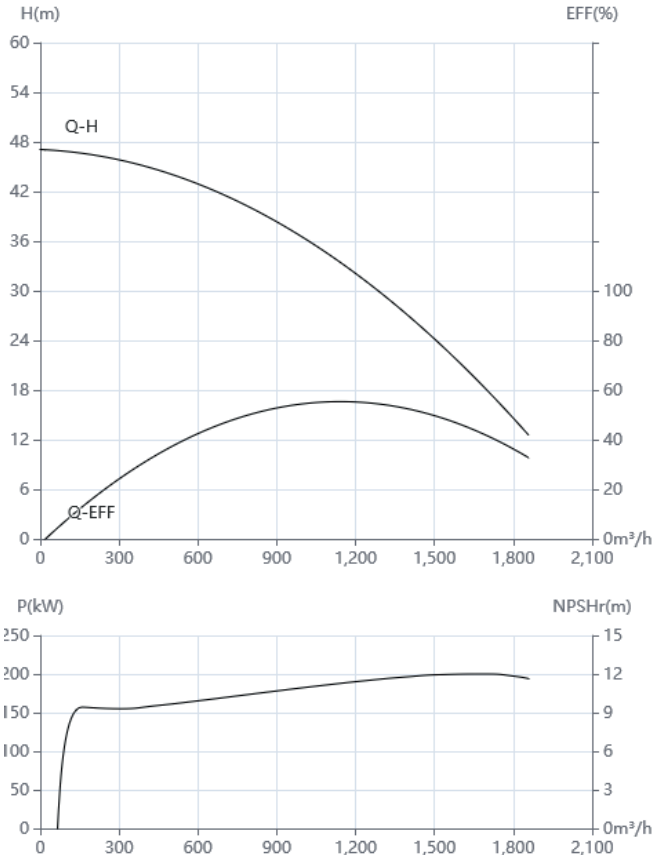
400SSC1500-30-200



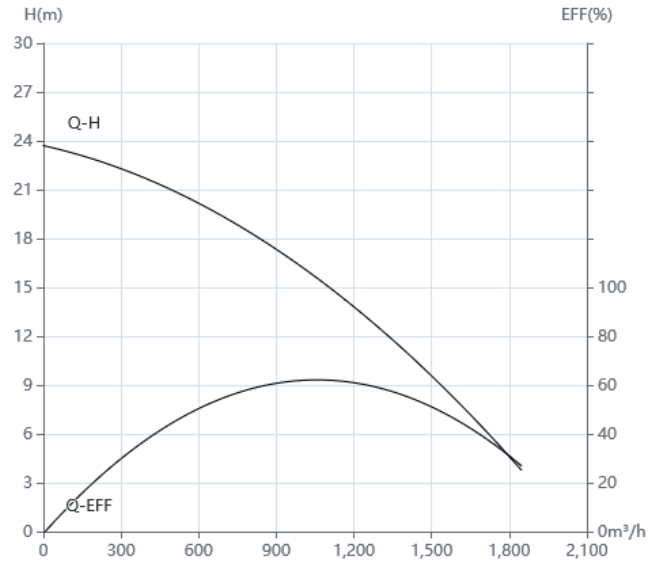
400SSC1600-22-160

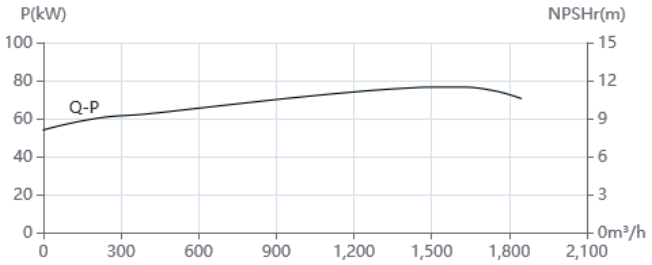


400SSC1600-25-185

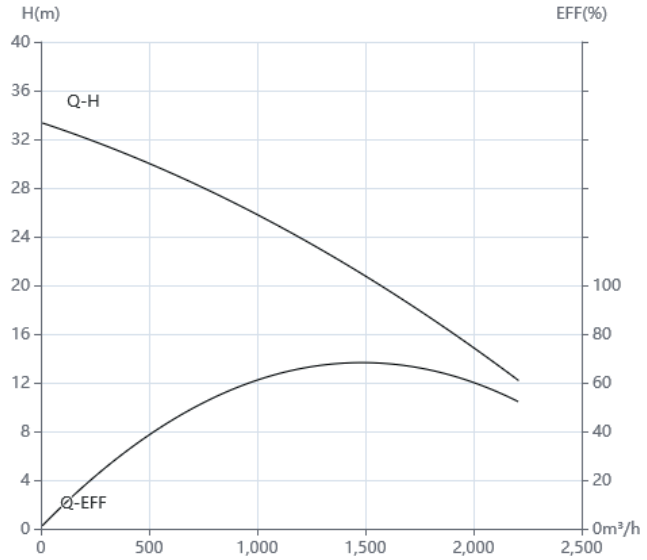


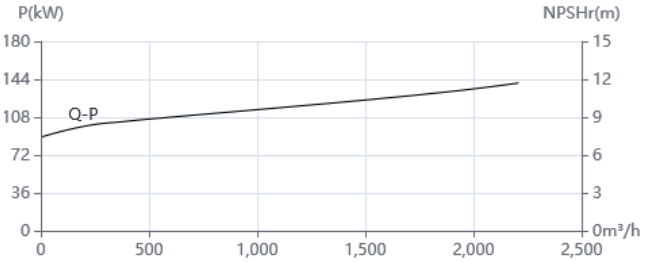
400SSC1700-10-75



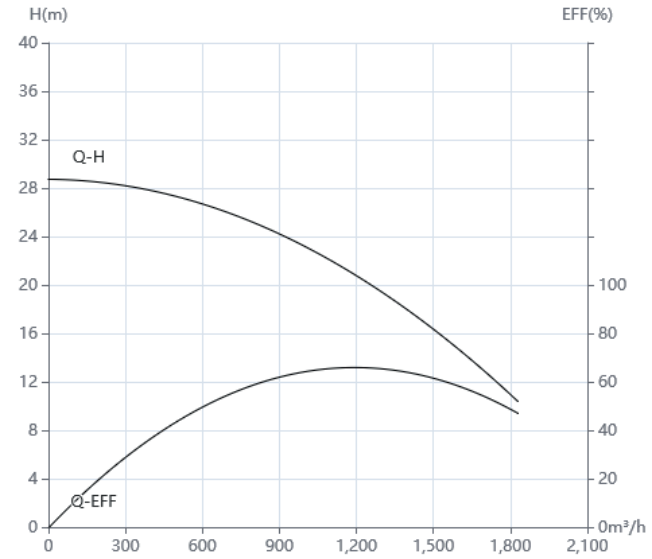


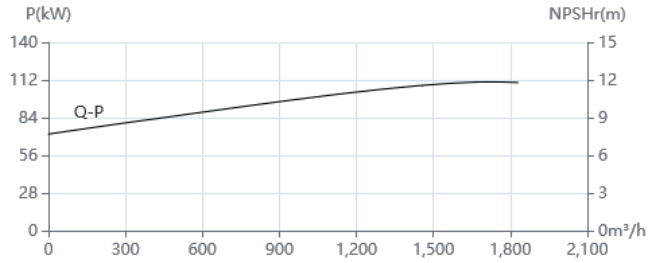
400SSC1700-16-132



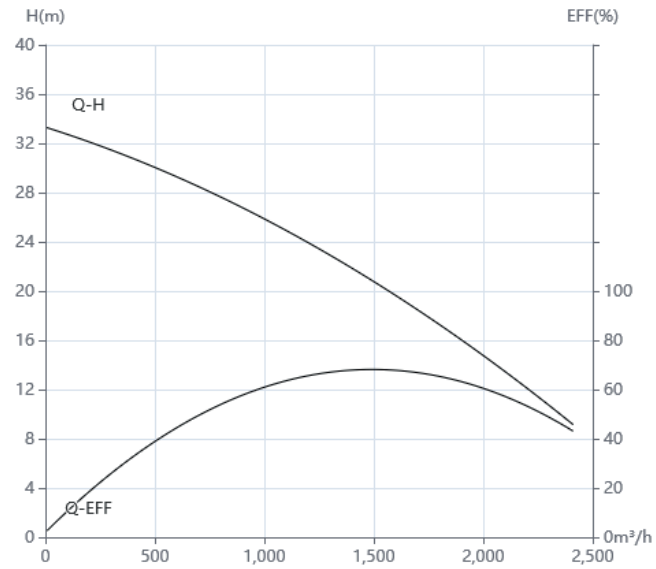


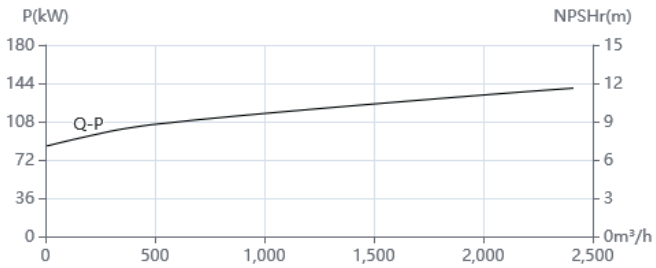
400SSC1800-15-110





400SSC2000-15-132





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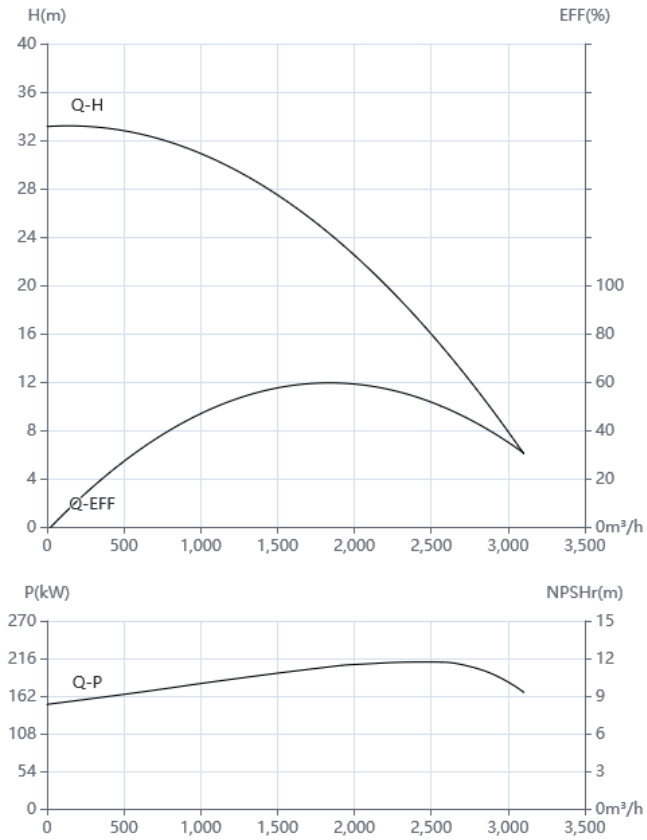

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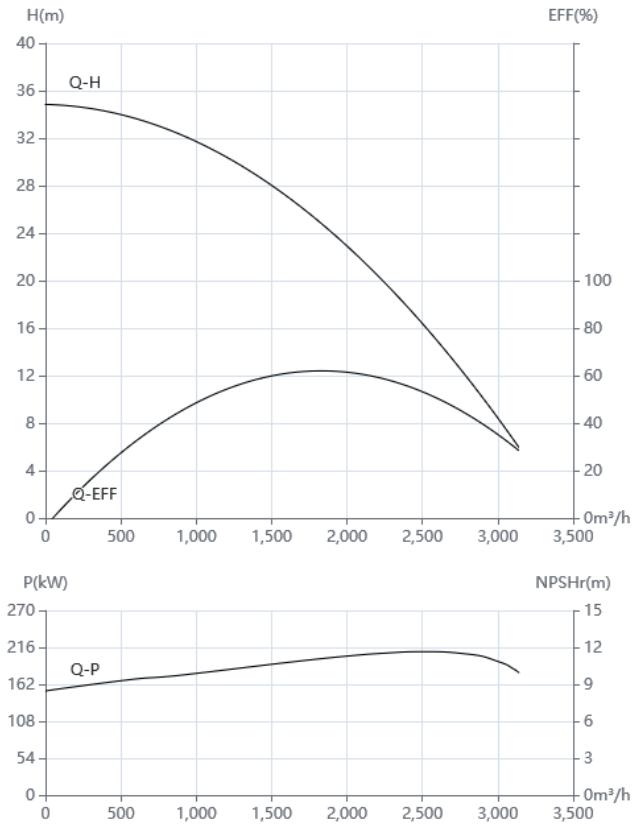

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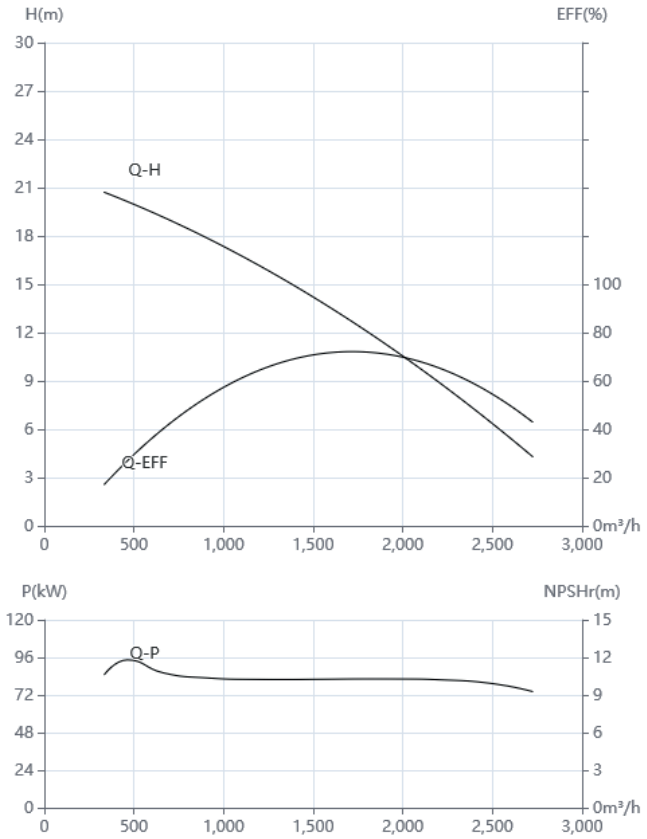
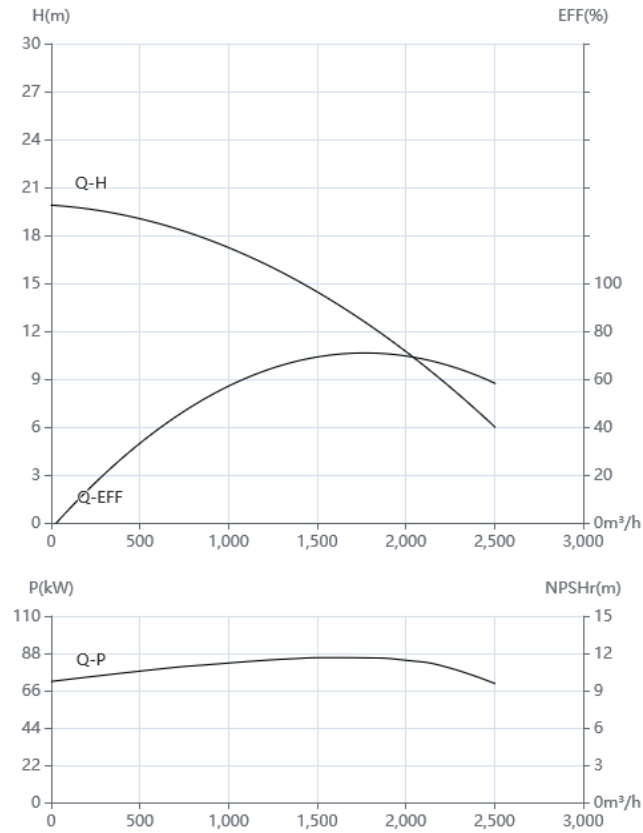
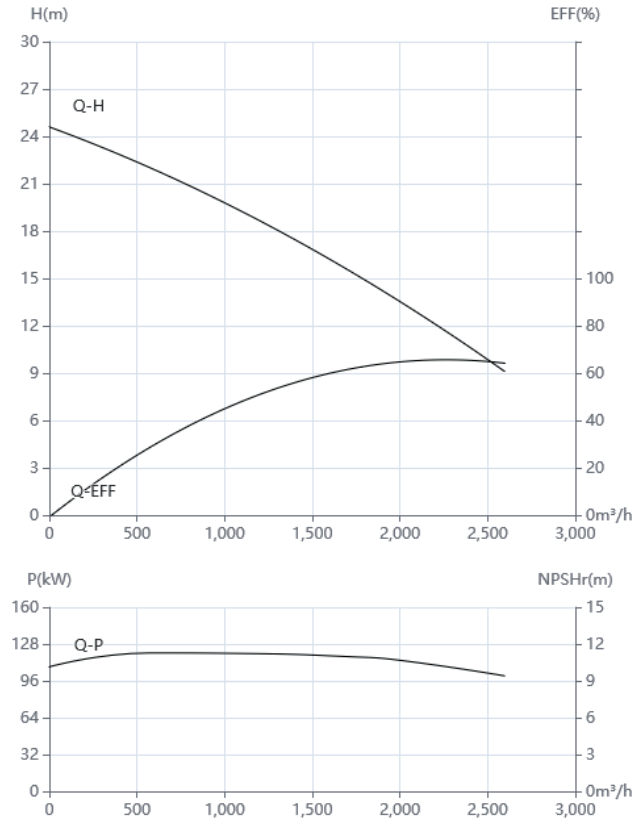


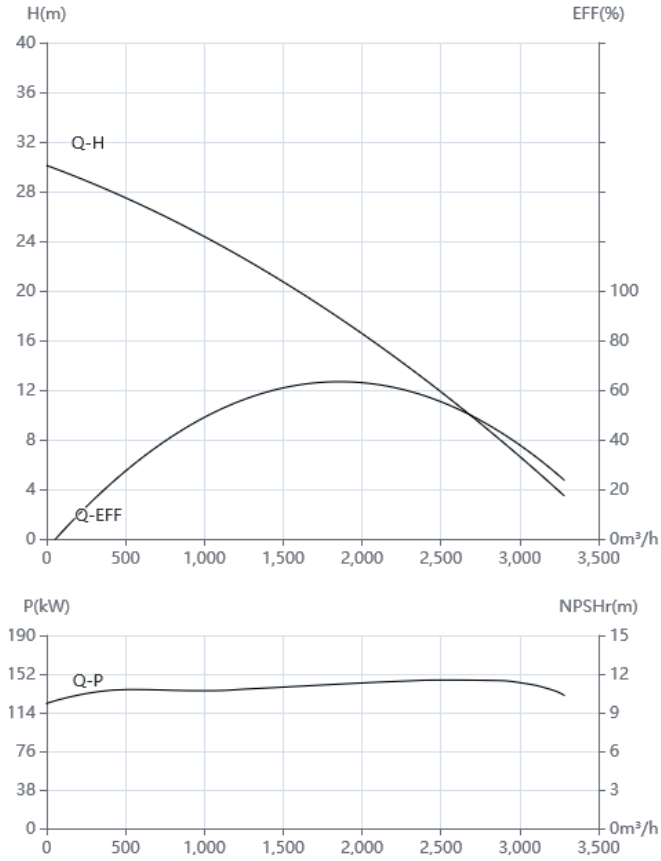
500SSC2500-8-90



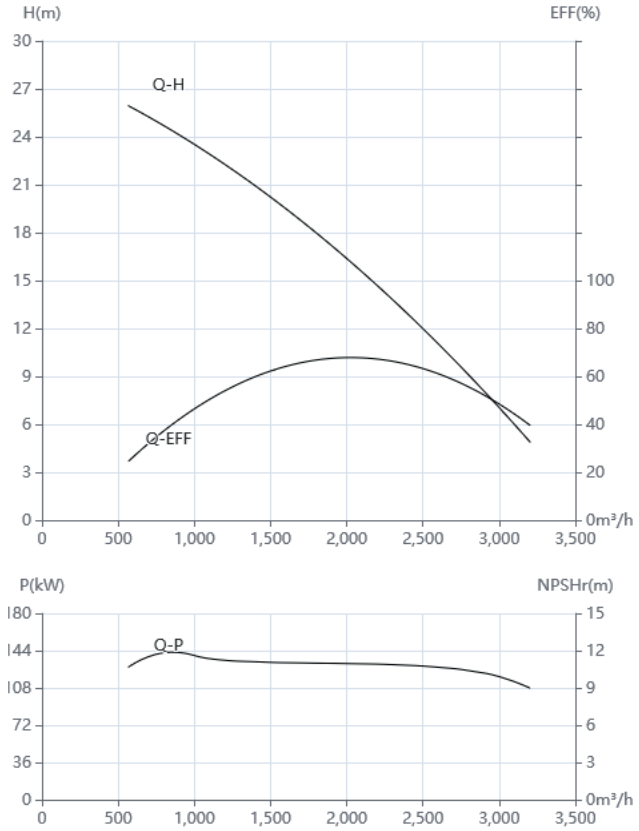
500SSC2500-10-110



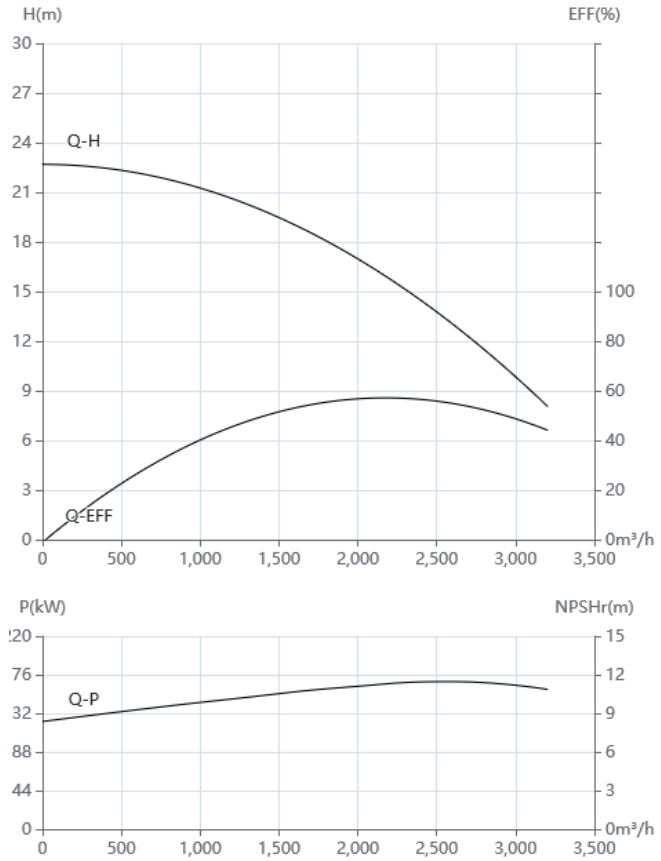
500SSC2600-14-160



500SSC2800-10-132



500SSC3000-10-132



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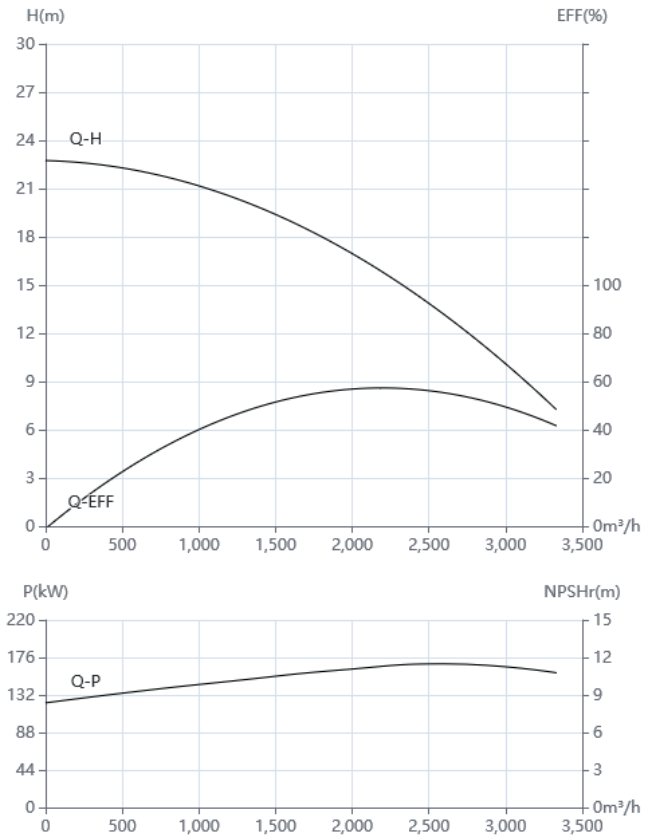

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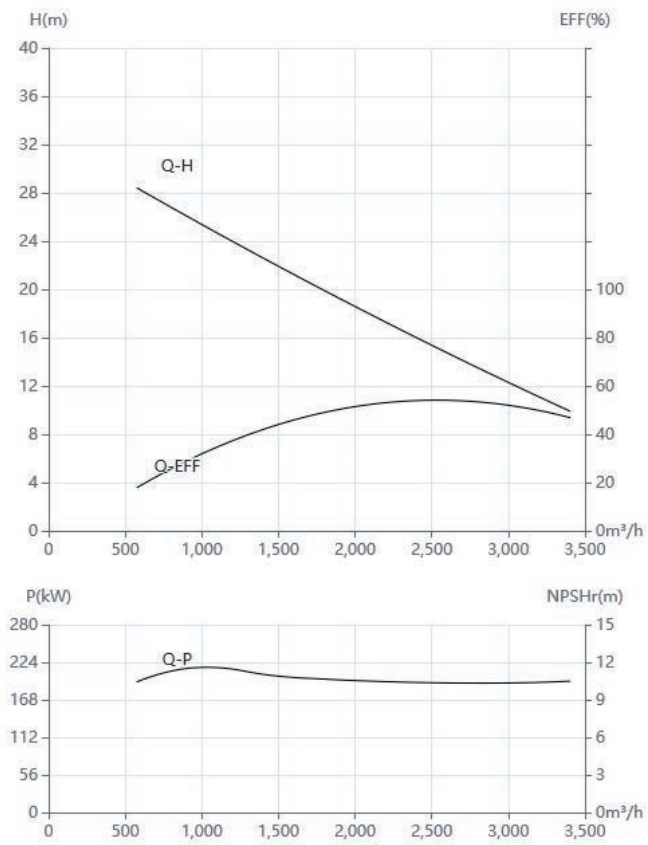

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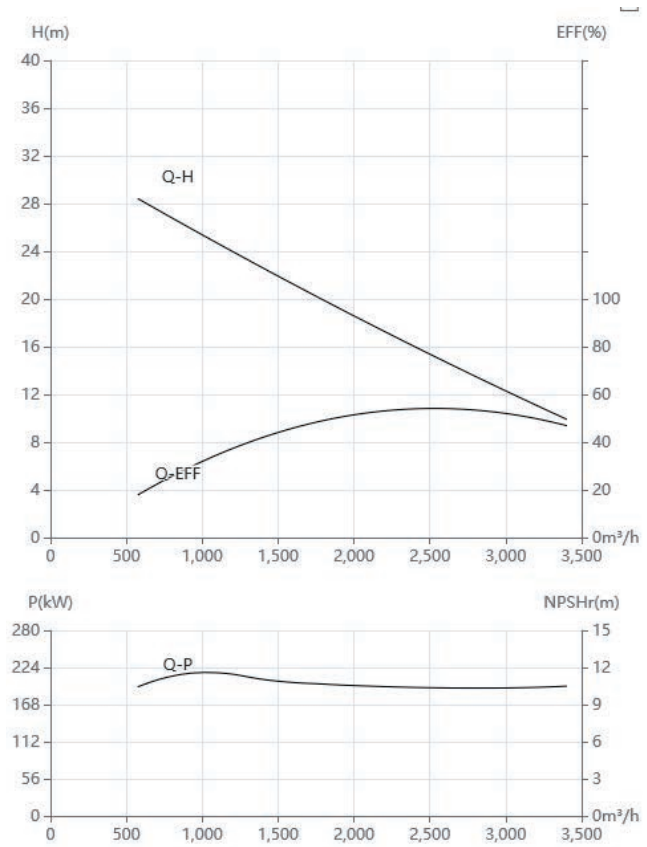

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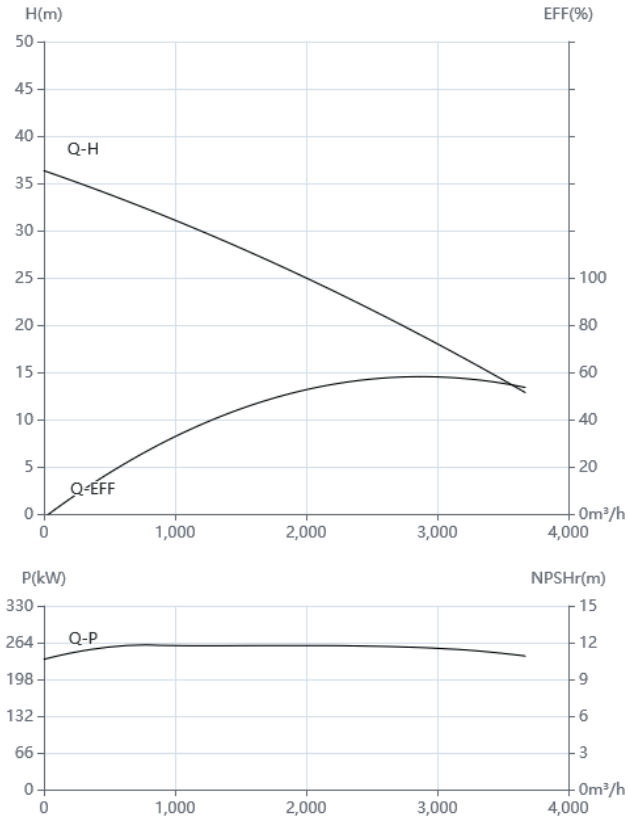

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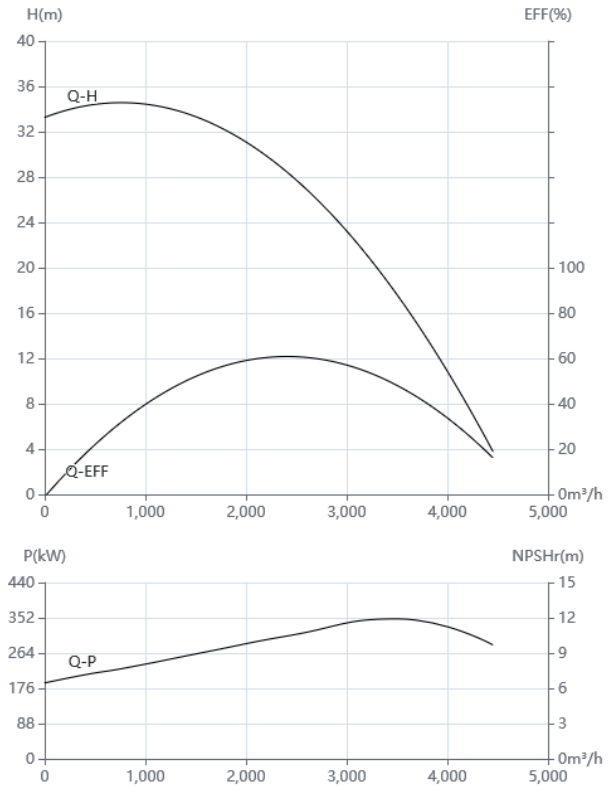

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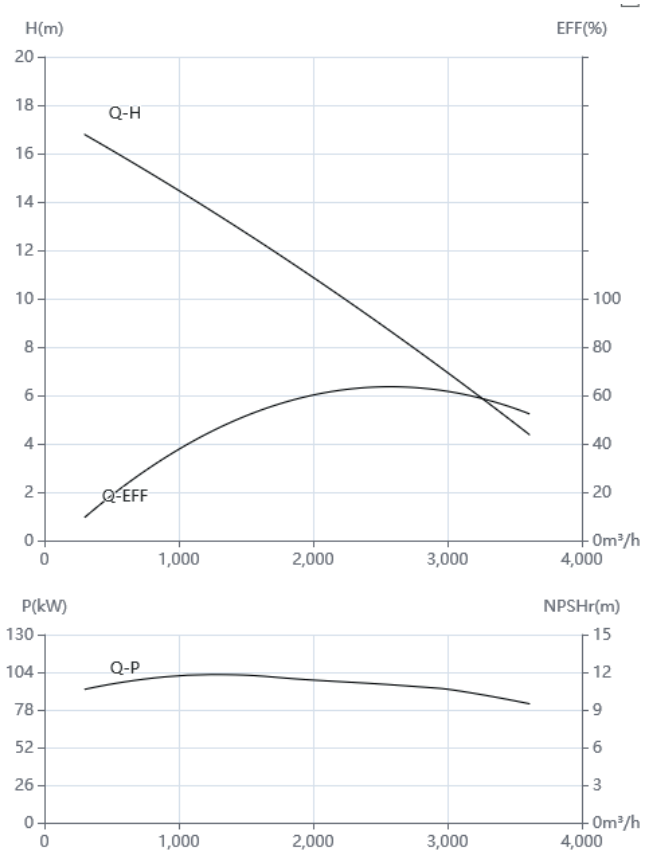

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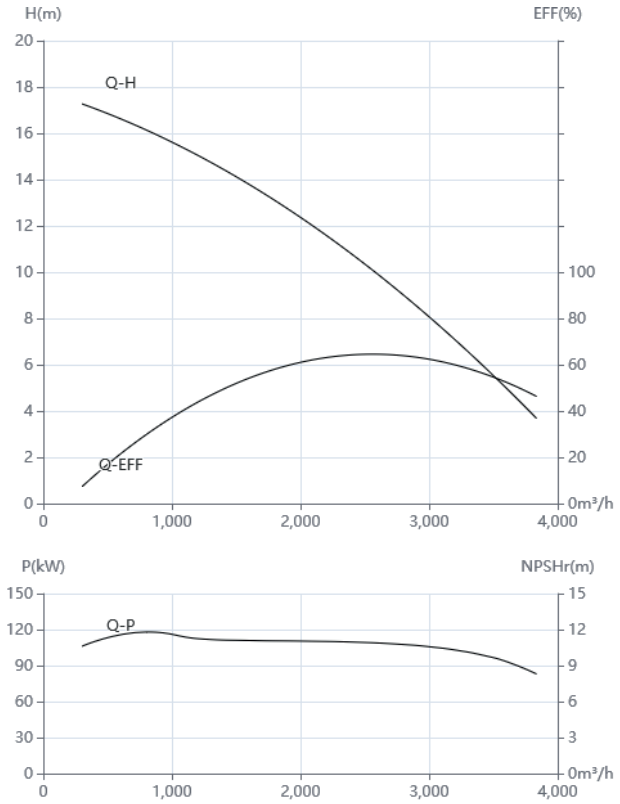

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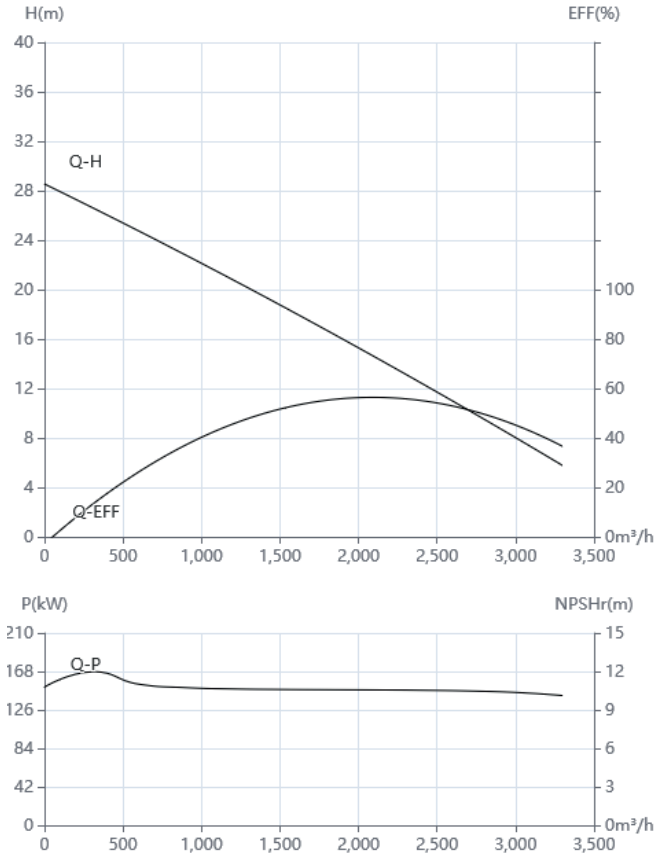

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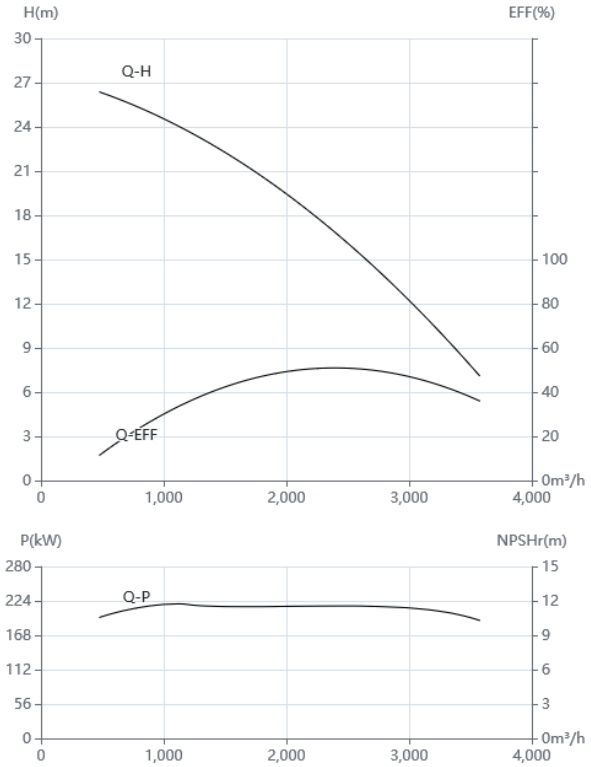

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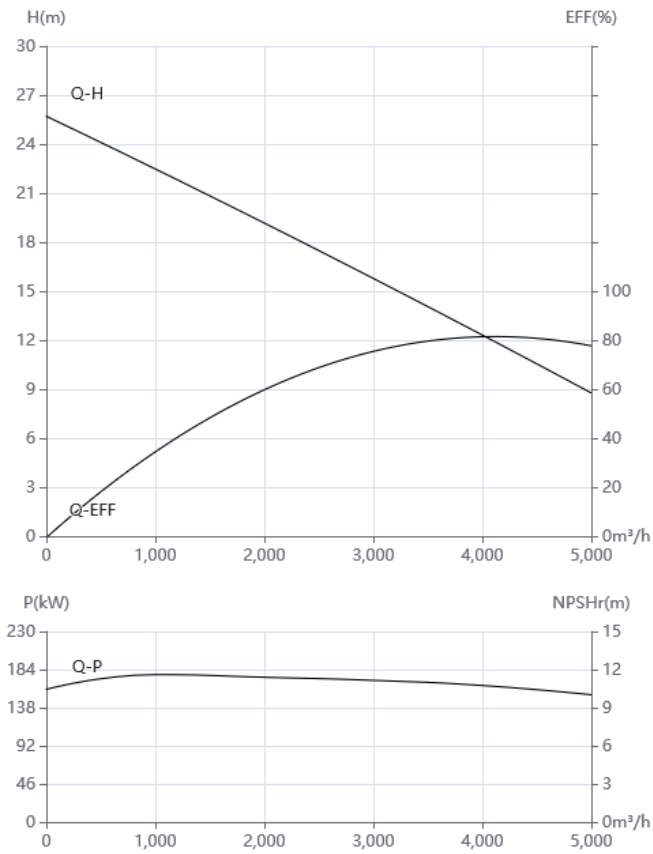

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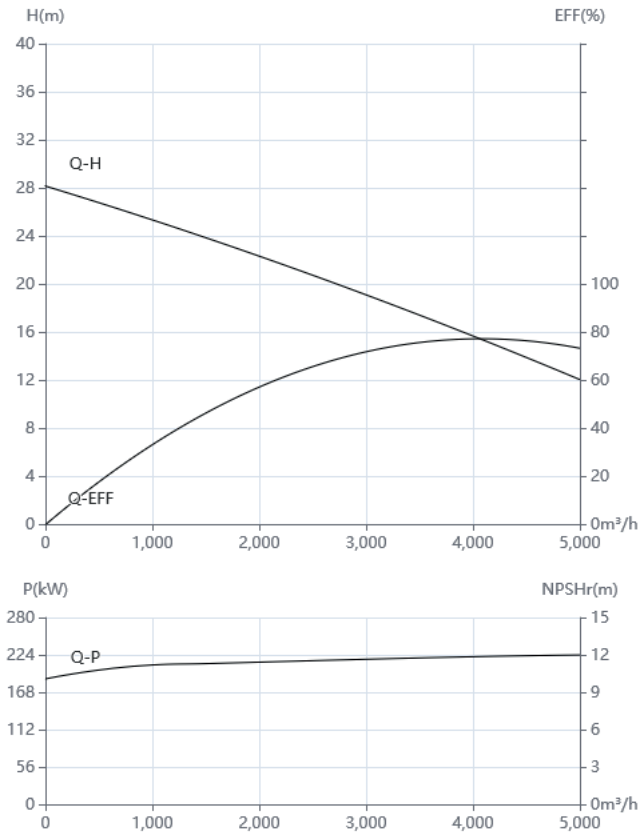

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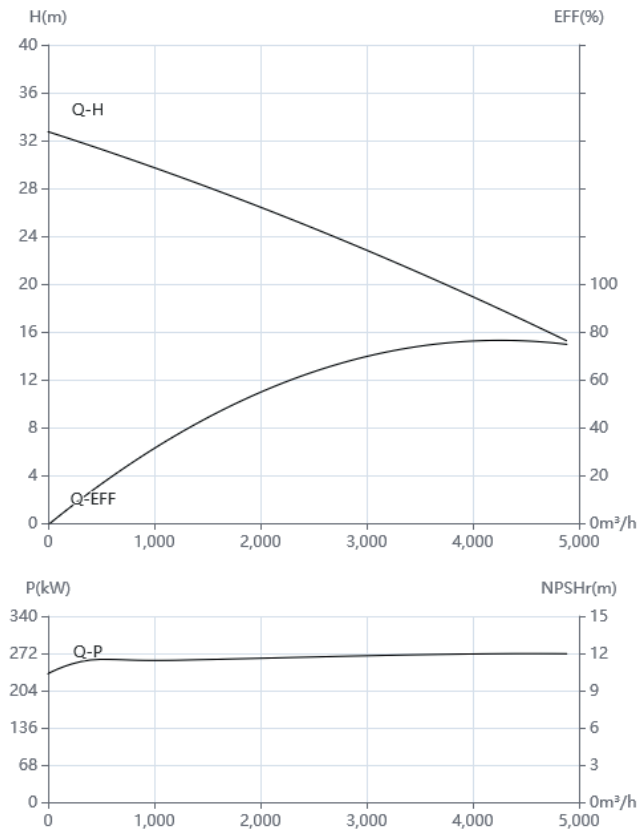

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ОФИЦИАЛЬНОЕ ПРЕДСТАВИТЕЛЬСТВО В РОССИИ

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