IN-LINE PUMP

인라인 펌프

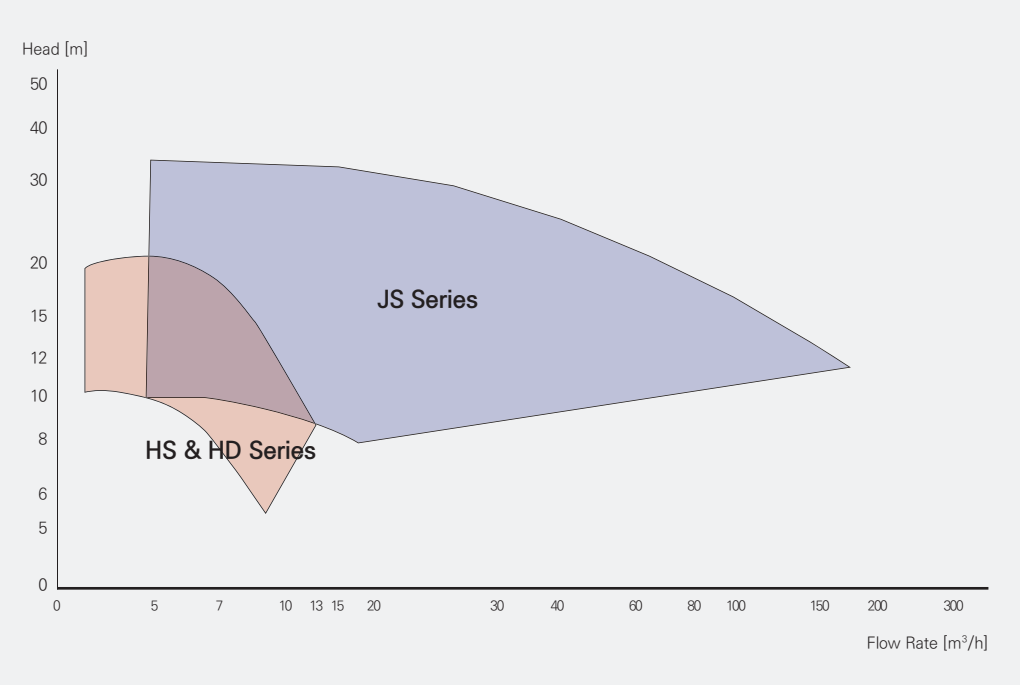
JANGHAN
ENGINEERS, INC.

인라인 펌프
IN-LINE PUMP

인라인 펌프는 배관 사이에 설치하여 물의 순환과 이송 용도로 사용됩니다.
자율 운전 인라인 펌프는 안정적인 냉난방 유량 공급과 에너지 사용량 절감에 효과적입니다.
급탕 듀얼 인라인 펌프는 유지관리가 용이한 손쉬운 배관 구성을 제공합니다.

인라인 펌프 시리즈

인라인 펌프 시리즈별 사양 범위

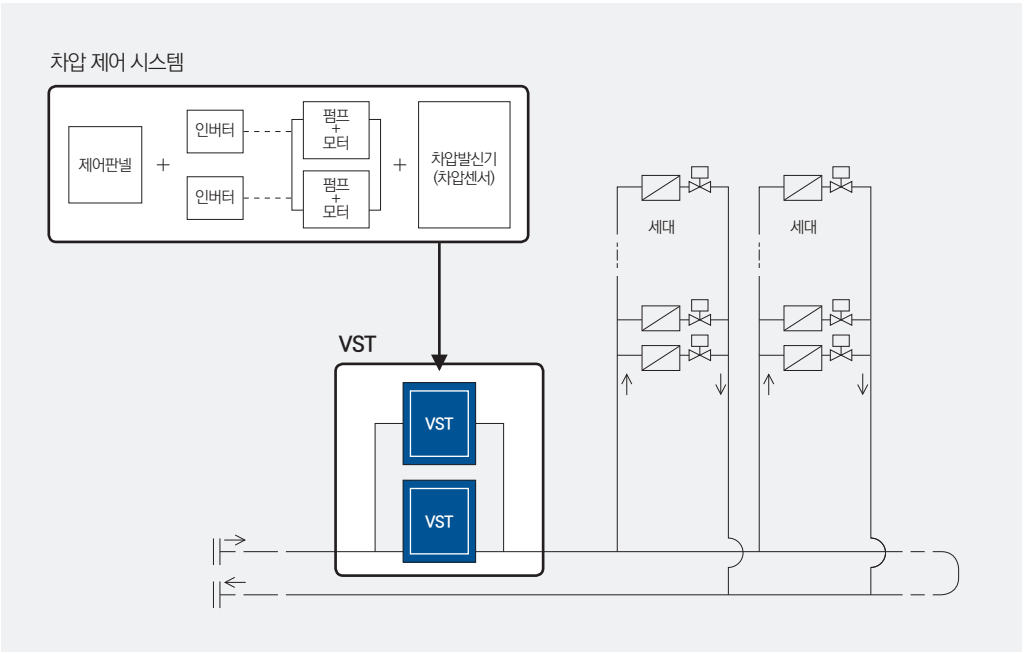


인라인 펌프 시리즈별 용도

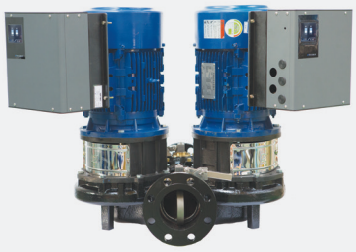
시리즈	분류	최대유량 [m³/h]	최대양정 [m]	설계압력 [bar]	관경 [A]
HS	급탕	12	20	16	25~32
HD	급탕(듀얼 펌프)	12	20	16	40
JS	냉난방	160	34	16	50~100

자율 운전 펌프
VST

자율 운전 펌프는 시스템 부하에 필요한 유량을 실시간으로 판단하는 VST 기술(Variable speed Self-Tracking, 특허 제 2013-0067665호)을 제공합니다. 정확한 제어를 위해 복잡하게 구성해야 하는 말단 차압 제어와 달리 VST 기술은 간편한 구성으로 필요 유량을 공급할 수 있는 기술입니다.



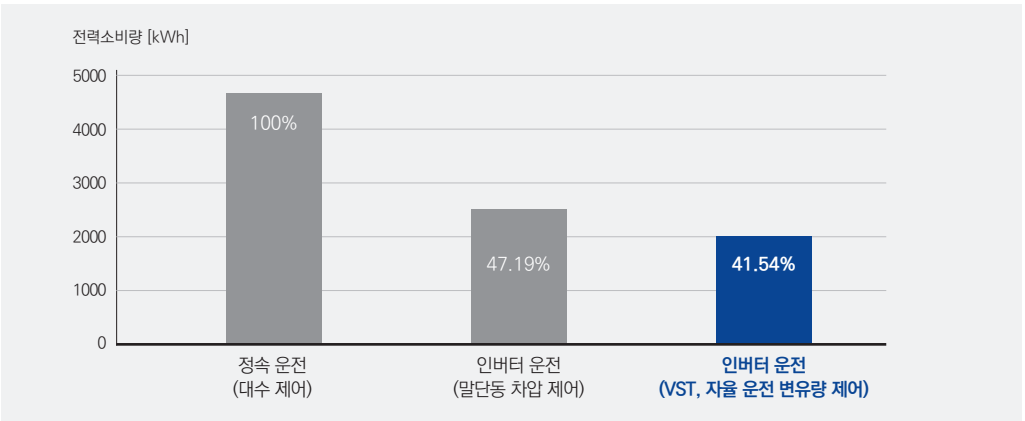
VST 특징



듀얼 펌프에 VST 적용 예시

- 자율 운전 제어를 통한 필요 유량 공급
- 부하 변동에 따른 효율적인 변유량 제어
- 인버터 일체형 펌프로 유지 관리의 편리성

월간 에너지 소비량 비교



· 출처: 대한설비공학회 / 한국지역난방공사, '사용자시설 2차측 인버터 펌프의 최적 차압제어 방식에 대한 연구보고서'

급탕 순환용
인라인 펌프
HS Series



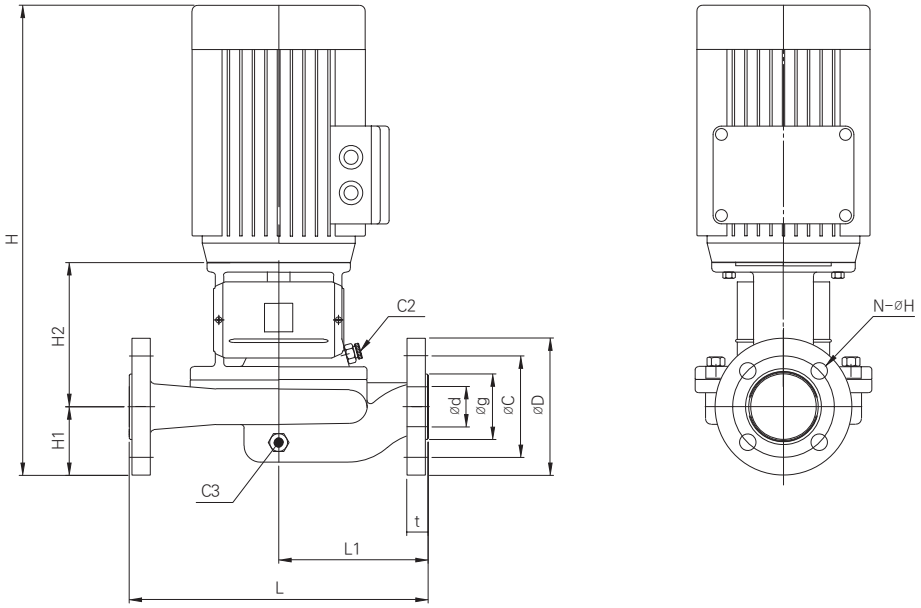
모델명

HSv-251

① ② ③

① Pump Series
② Nozzle Diameter
③ Power Level

외형도



Model	Pole	kW	H	H1	H2	L	L1	ød	øg	øC	øD	N-øH	t	C2	C3
HSv-250	2	0.37	393.0	57.5	120.5	250	125	25	55	85	115	4-ø14	18	PT1/4"	PT3/8"
HSv-251	2	0.55	393.0	57.5	120.5	250	125	25	55	85	115	4-ø14	18	PT1/4"	PT3/8"
HSv-252	2	0.75	422.0	57.5	120.5	250	125	25	55	85	115	4-ø14	18	PT1/4"	PT3/8"
HSv-321	2	0.55	405.5	70.0	120.5	250	125	32	55	100	140	4-ø18	18	PT1/4"	PT3/8"
HSv-322	2	0.75	434.5	70.0	120.5	250	125	32	55	100	140	4-ø18	18	PT1/4"	PT3/8"

제품 특징

HS Series는 급탕을 오염시키지 않는 견고한 스테인리스 펌프입니다.

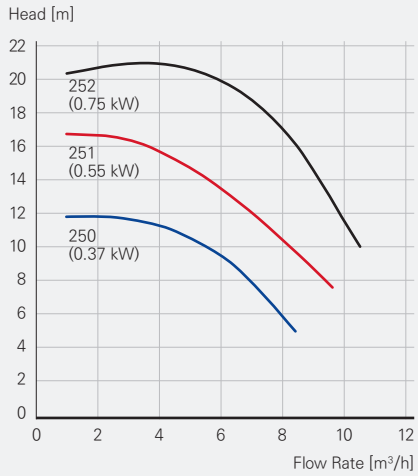
1. 맑은 물을 위한 깨끗한 펌프
   - 물과 접촉부 STS304 재질 적용
   - 수도용 위생안전기준 인증(KCW-2015-0172)

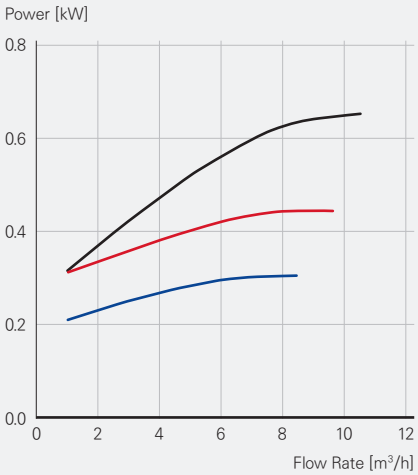
2. 작지만 견고한 펌프
   - 타사 펌프 대비 컴팩트한 설계
   - 메카니컬 씰을 적용하여 누설 및 샤프트 마모 방지
   - 안정적인 삼상 모터 적용

3. 고층 건물에 적용 가능한 펌프
   - 16 bar 의 높은 설계압력으로 고층 건물에도 적용 가능

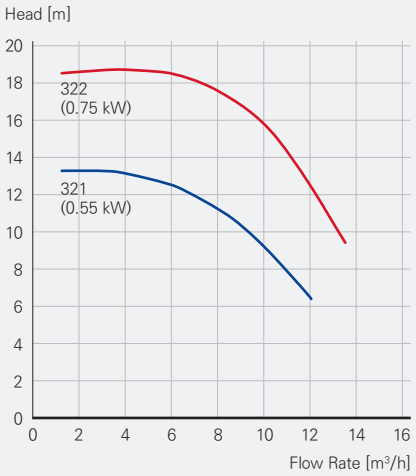
성능곡선

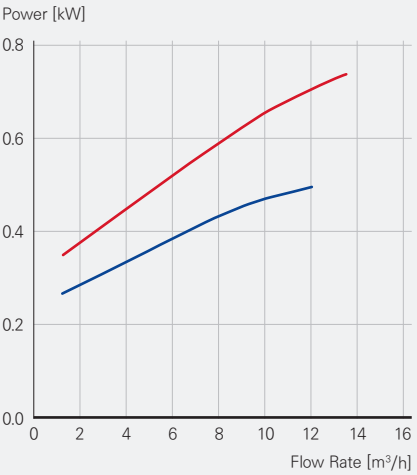
HSv-25 Series





HSv-32 Series





급탕 순환용
듀얼 인라인 펌프
HD Series

급탕 듀얼 인라인 펌프(HD Series)는 두 대의 펌프를 하나의 케이싱으로 구성하여 배관 구성을 간편하게 할 수 있습니다.



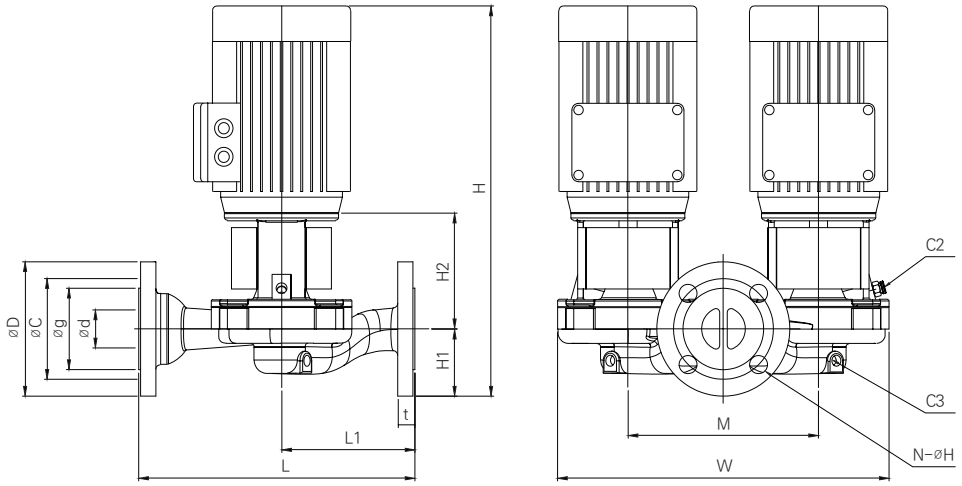
모델명

HD-411

① ② ③ ④

① Pump Series
② Nozzle Diameter
③ Flow Rate
④ Power Level

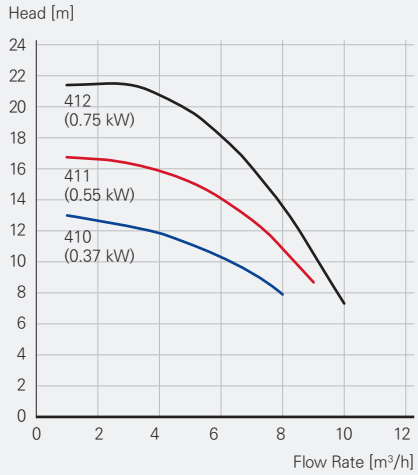
외형도

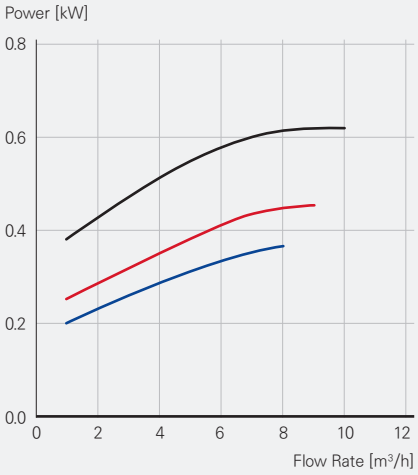


Model	Pole	kW	H	H1	H2	L	L1	ød	øg	øC	øD	N-øH	t	W	M	C2	C3
HD-410	2	0.37*2	405.5	70	120.5	290	140	40	85	105	140	4-ø19	18	350	200	PT1/4"	PT3/8"
HD-411	2	0.55*2	405.5	70	120.5	290	140	40	85	105	140	4-ø19	18	350	200	PT1/4"	PT3/8"
HD-412	2	0.75*2	434.5	70	120.5	290	140	40	85	105	140	4-ø19	18	350	200	PT1/4"	PT3/8"
HD-421	2	0.55*2	405.5	70	120.5	290	140	40	85	105	140	4-ø19	18	350	200	PT1/4"	PT3/8"
HD-422	2	0.75*2	434.5	70	120.5	290	140	40	85	105	140	4-ø19	18	350	200	PT1/4"	PT3/8"

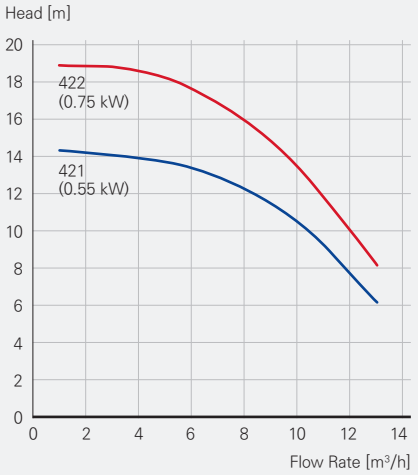
성능곡선

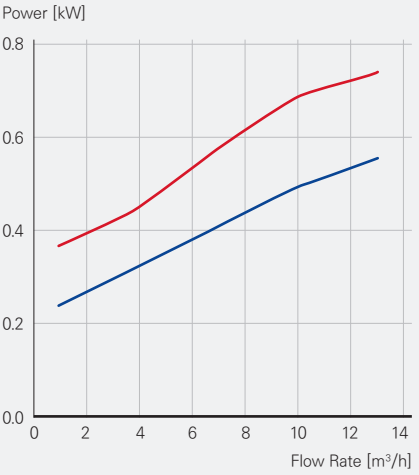
HD-41 Series



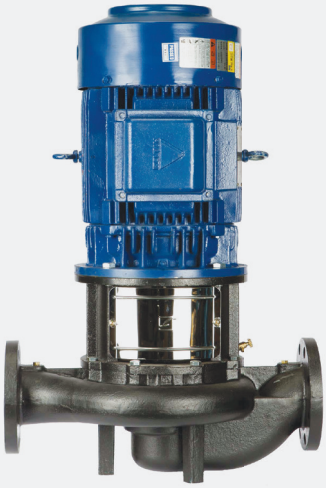


HD-42 Series





냉난방 순환용 인라인 펌프
JS Series



모델명

JS 80-250

① Pump Series
② Nozzle Diameter
③ Impeller Nominal Diameter

제품 특징

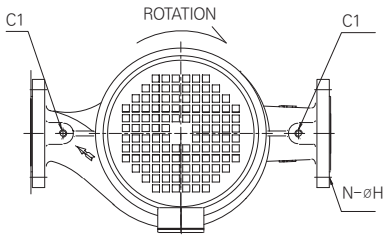
JS Series는 건물에너지 사용량 절감에 효과적인 펌프입니다.

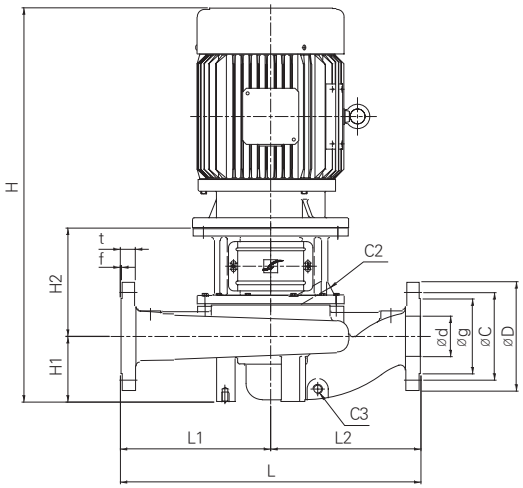
1. 고효율
   · 노즐경 100 mm 이하 국내 최초 고효율 인증(펌프 제 1057호)
   · '공공기관 에너지이용합리화 추진 지침' 만족
   · '건축물의 에너지절약 설계기준' 만족

2. 입형 구조
   · 횡형 펌프 대비 설치 면적 25 % 감소

3. 견고한 설계
   · 메카니컬 씰을 적용하여 누설 및 샤프트 마모 방지
   · 16 bar 의 높은 설계압력으로 고층 건물에도 적용 가능

외형도

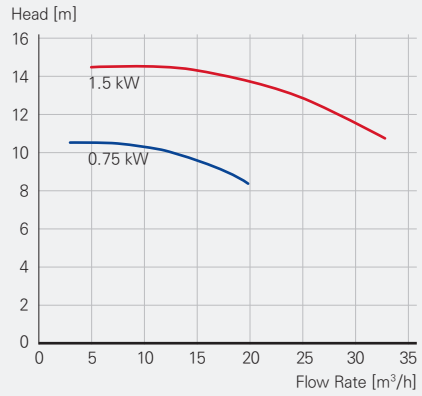


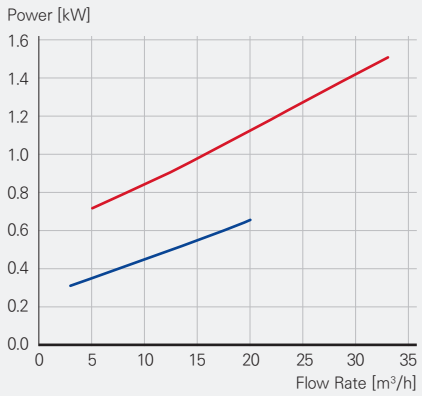


Model	Pole	kW	H	H1	H2	L	L1	L2	ød	øg	øC	øD	N-øH	t	C1	C2	C3
JS 50-160	4	0.75	504	93	152	440	220	220	50	100	120	155	8-ø19	20	PT1/4"	PT1/4"	PT3/8"
JS 50-160	4	1.5	568	93	152	440	220	220	50	100	120	155	8-ø19	20	PT1/4"	PT1/4"	PT3/8"
JS 50-200	4	1.5	591	100	167	440	220	220	50	100	120	155	8-ø19	20	PT1/4"	PT1/4"	PT3/8"
JS 50-200	4	2.2	620	100	174	440	220	220	50	100	120	155	8-ø19	20	PT1/4"	PT1/4"	PT3/8"
JS 50-250	4	2.2	646	105	175	485	240	245	50	100	120	155	8-ø19	20	PT1/4"	PT1/4"	PT3/8"
JS 50-250	4	3.7	630	105	175	485	240	245	50	100	120	155	8-ø19	20	PT1/4"	PT1/4"	PT3/8"
JS 50-250	4	5.5	679	105	195	485	240	245	50	100	120	155	8-ø19	20	PT1/4"	PT1/4"	PT3/8"
JS 65-160	4	1.5	595	105	153	480	240	240	65	120	140	175	8-ø19	24	PT1/4"	PT1/4"	PT3/8"
JS 65-160	4	2.2	624	105	173	480	240	240	65	120	140	175	8-ø19	24	PT1/4"	PT1/4"	PT3/8"
JS 65-200	4	1.5	596	105	164	480	240	240	65	120	140	175	8-ø19	24	PT1/4"	PT1/4"	PT3/8"
JS 65-200	4	2.2	625	105	174	480	240	240	65	120	140	175	8-ø19	24	PT1/4"	PT1/4"	PT3/8"
JS 65-200	4	3.7	609	105	174	480	240	240	65	120	140	175	8-ø19	24	PT1/4"	PT1/4"	PT3/8"
JS 65-250	4	3.7	940	115	175	520	260	260	65	120	140	175	8-ø19	24	PT1/4"	PT1/4"	PT3/8"
JS 65-250	4	5.5	989	115	195	520	260	260	65	120	140	175	8-ø19	24	PT1/4"	PT1/4"	PT3/8"
JS 65-250	4	7.5	727	115	195	520	260	260	65	120	140	175	8-ø19	24	PT1/4"	PT1/4"	PT3/8"
JS 80-160	4	1.5	630	132	171	530	265	265	80	135	160	200	8-ø23	24	PT1/4"	PT1/4"	PT3/8"
JS 80-160	4	2.2	659	132	181	530	265	265	80	135	160	200	8-ø23	24	PT1/4"	PT1/4"	PT3/8"
JS 80-160	4	3.7	643	132	181	530	265	265	80	135	160	200	8-ø23	24	PT1/4"	PT1/4"	PT3/8"
JS 80-200	4	2.2	670	130	174	530	265	265	80	135	160	200	8-ø23	24	PT1/4"	PT1/4"	PT3/8"
JS 80-200	4	3.7	654	130	174	530	265	265	80	135	160	200	8-ø23	24	PT1/4"	PT1/4"	PT3/8"
JS 80-200	4	5.5	703	130	194	530	265	265	80	135	160	200	8-ø23	24	PT1/4"	PT1/4"	PT3/8"
JS 80-250	4	5.5	738	135	214	580	290	290	80	135	160	200	8-ø23	24	PT1/4"	PT1/4"	PT3/8"
JS 80-250	4	7.5	776	135	214	580	290	290	80	135	160	200	8-ø23	24	PT1/4"	PT1/4"	PT3/8"
JS 80-250	4	11	833	135	244	580	290	290	80	135	160	200	8-ø23	24	PT1/4"	PT1/4"	PT3/8"
JS 100-160	4	2.2	690	140	184	580	290	290	100	160	185	225	8-ø23	26	PT1/4"	PT1/4"	PT3/8"
JS 100-160	4	3.7	674	140	184	580	290	290	100	160	185	225	8-ø23	26	PT1/4"	PT1/4"	PT3/8"
JS 100-160	4	5.5	723	140	204	580	290	290	100	160	185	225	8-ø23	26	PT1/4"	PT1/4"	PT3/8"
JS 100-200	4	3.7	666	140	176	580	290	290	100	160	185	225	8-ø23	26	PT1/4"	PT1/4"	PT3/8"
JS 100-200	4	5.5	715	140	196	580	290	290	100	160	185	225	8-ø23	26	PT1/4"	PT1/4"	PT3/8"
JS 100-200	4	7.5	753	140	196	580	290	290	100	160	185	225	8-ø23	26	PT1/4"	PT1/4"	PT3/8"
JS 100-250	4	7.5	817	155	215	620	310	310	100	160	185	225	8-ø23	26	PT1/4"	PT1/4"	PT3/8"
JS 100-250	4	11	874	155	245	620	310	310	100	160	185	225	8-ø23	26	PT1/4"	PT1/4"	PT3/8"
JS 100-250	4	15	918	155	245	620	310	310	100	160	185	225	8-ø23	26	PT1/4"	PT1/4"	PT3/8"

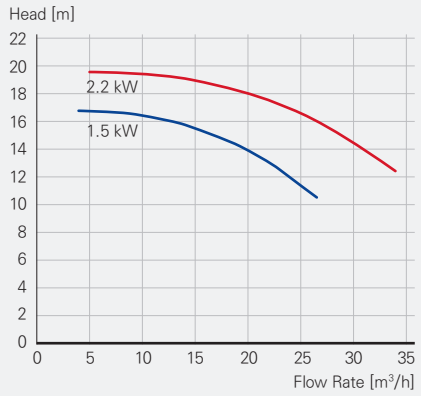
성능곡선

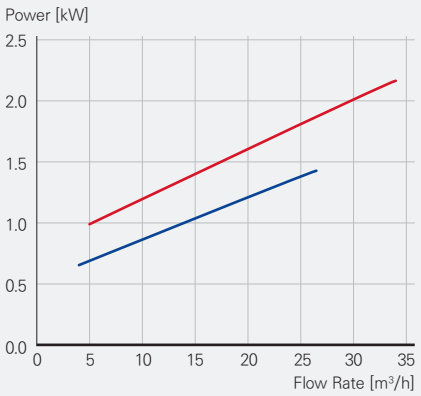
JS 50-160 Series



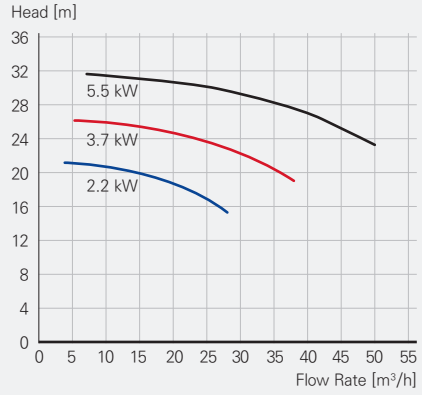


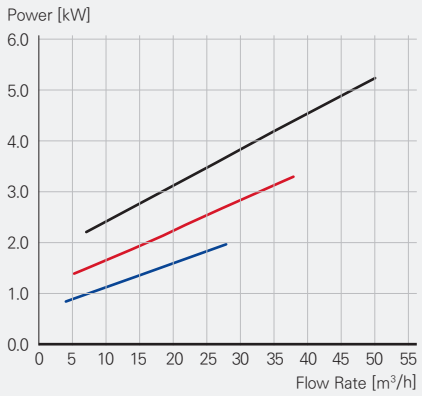
JS 50-200 Series



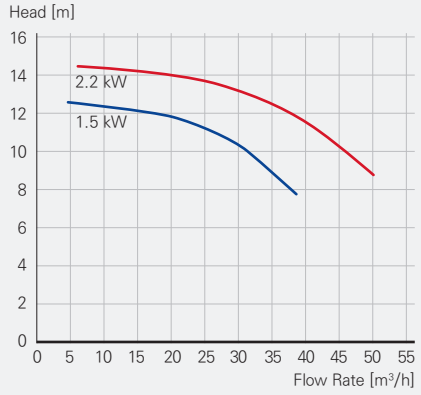


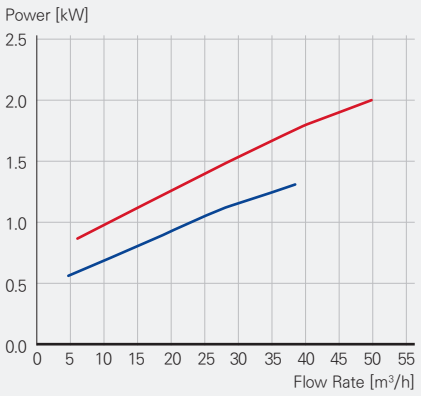
JS 50-250 Series





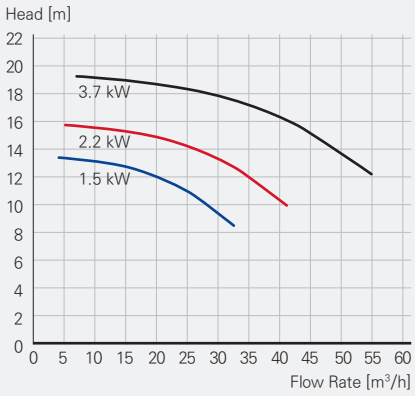
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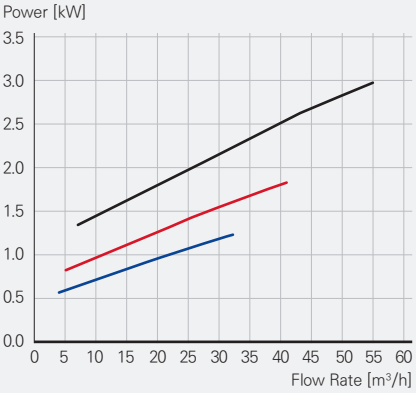




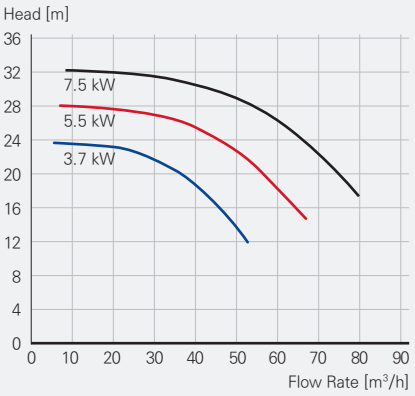
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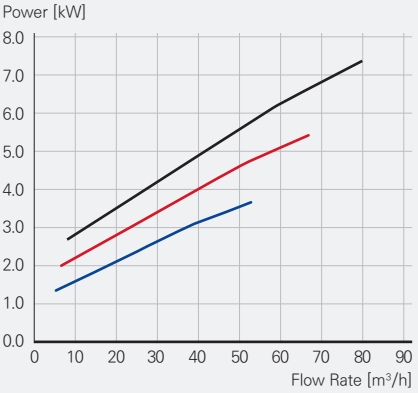
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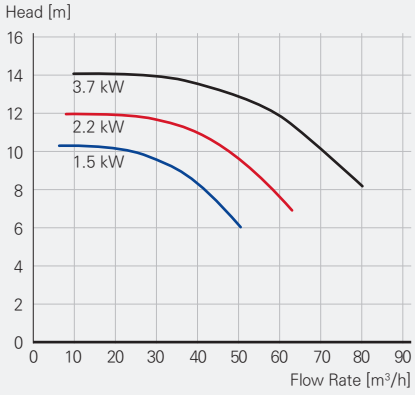


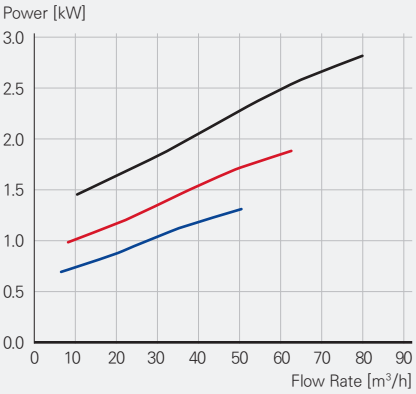
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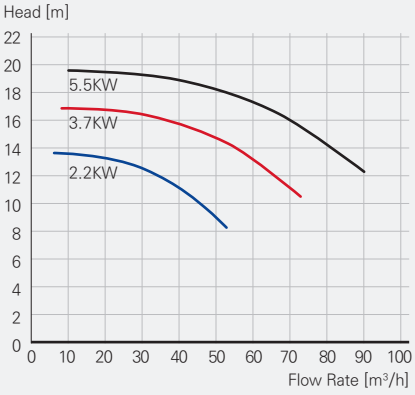


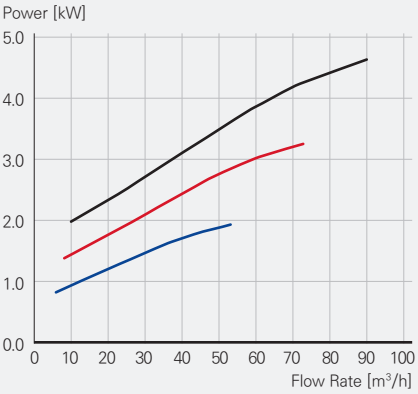
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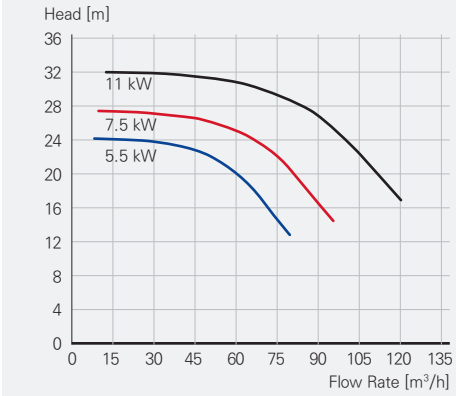
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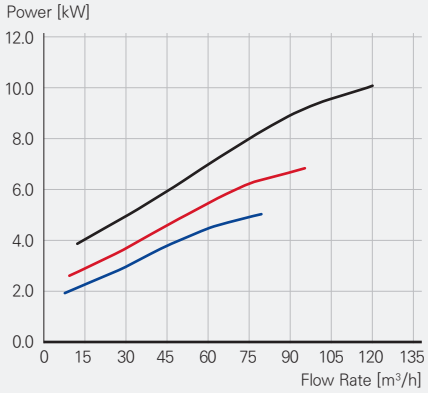




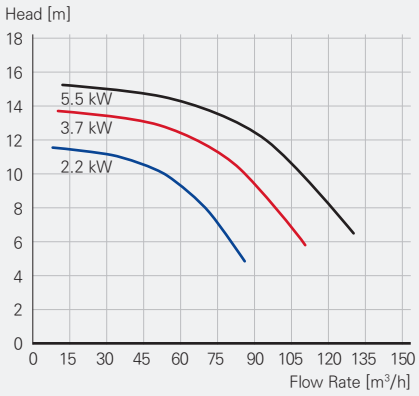
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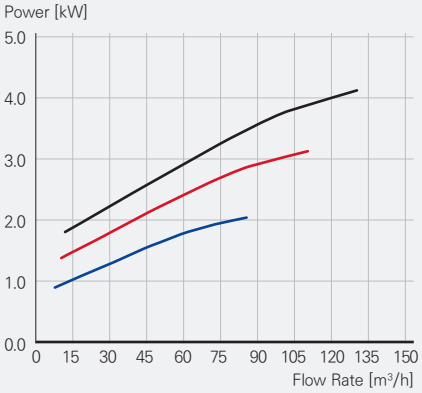
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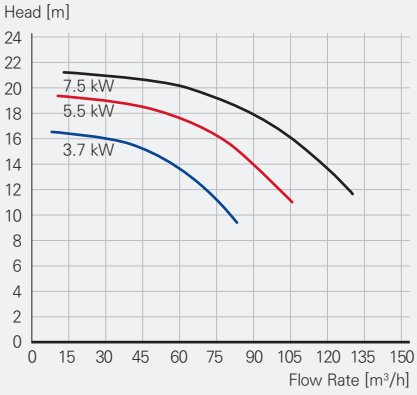


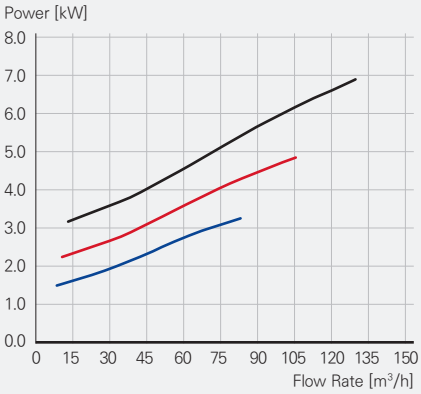
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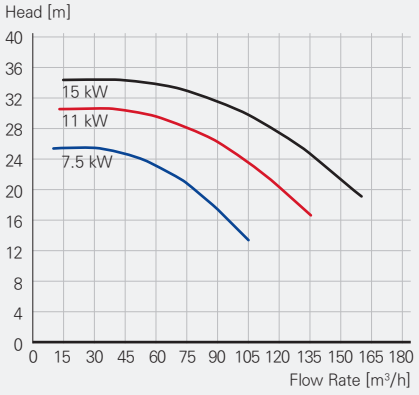


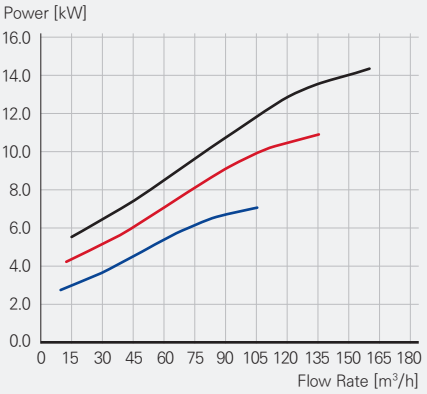
JS 100-200 Series





JS 100-250 Series





발행일 2020년 3월

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