

pump for all, all for pump



KSA9001:2001/ISO9001:2000

Coolant pump & High Pressure Coolant pump

A-RYUNG PUMP

Product guide



 **A-RYUNG**
www.aryung.co.kr

AR2010-ACP-EK1

공작기계 전용 PUMP

COOLANT PUMP

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Coolant pumps

◎ ACP Series

제품의 특징

· 반영구적인 수명

Motor부 : 전폐형 유도전동기로 절삭유 Pump 전용 Motor로 설계되어 있으며, Aluminum Flame를 사용하여 방열효과가 높아 Motor에 무리가 없어 반영구적으로 사용이 가능하다.

· Pump부 : 부식, 마모 등에 견디는 기계적 성질이 우수하며 소음 및 진동이 거의 없다.

· 우수한 성능

다양한 절삭유 Pump 연구경험을 토대로 Pumping 기능을 최대로 발휘할 수 있도록 설계되어 있어 Pump의 성능이 크게 향상되었다.

· 유면 상·하한선 표시

침수식 ACP-F, HF type은 Pump body에 유면 상한선과 하한선을 표시하여 Tank 내의 유면 유지에 도움이 되도록 배려하였다.

· 회전방향 표시 및 점검창 부착

Motor 상부에 회전방향을 확인할 수 있도록 스티커 또는 투명 회전방향 점검창을 부착하였다.

Half-permanent life

· Motor part: This type is completely closed 3 phases motor and designed special cutting oil usage. The frame is made aluminum material, so it can easily dispersed the motor heat. The motor is used for half permanent because of no overload to the motor.

Pump part: The abrasion& erosion can be protected by designing mechanical superiority, also there is no noise and vibration.

· Quality performance

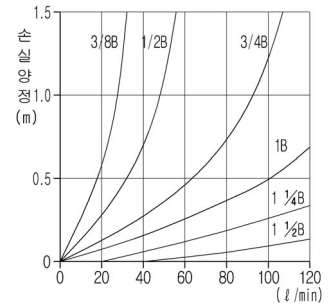
The pumping capability is improved by testing various cutting oil applications and experience.

· Marking high and low limitation of liqui

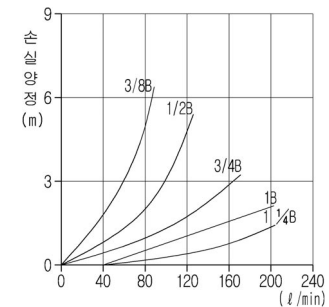
Immersion type ACP-F, HF is marked high & low line of the filling oil on the pump body.

· Rotating direction& checking window attached;

Up side of motor, it has a mark to rotate direction of motor with the sticker or direction window.



Loss head by pipe friction
파이프 1m당 손실양정



Loss head by elbow
엘보에 의한 손실양정

배관 LINE의 양정손실 계산방법

How to calculate head loss by pipe connections

· 원심 Pump의 배관 Line에서 일어나는 양정손실을 정확히 산출하기란 대단히 복잡하고 어려운 일이다. 그러나 실제 배관에서의 손실양정은 예상외로 크기 때문에 손실양정은 필히 고려하지 않으면 안된다.

· Pump 선정시 아래선도에 의하여 구해진 총 손실양정을 실제양정에 합산하여 총 양정을 구한 다음 총 양정 Pump 성능곡선의 교점을 찾아내 실제 토출량을 구할 수 있다.

그러나 이런 값들은 O의 종류, 점도, 온도, PIPE 내경 표면의 거칠기, Pipe의 형상, Valve의 종류 등에 따라 다소 변화된다.

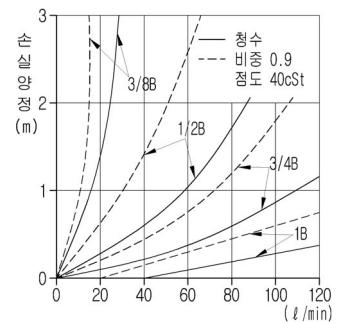
우측의 도표는 산출된 값에 경험 값을 보정하여 작성된 도표이다.

· It is very difficult and complicate to figure out the friction loss in pipe, but the friction loss is so serious that the loss have to be absolutely considered.

· When you select a pump, we have to add the total loss head(referring curve)and actual head by the curve, and then find out the actual discharge volume by the crossing point of performance curve.

But the value of discharge volume is different from the oil degree, viscosity, temperature, roughness inside pipe, pipe shape and valve items.

The right side graph is adjusted theoretical value considering practical value.



Loss head by elbow
토출구에 의한 손실양정

Coolant pumps

◎ ACP-F Series



ACP - 400 - F

Motor out-put
출력(W)

Pump type
펌프형식

- ACP-F Type은 침수식 펌프로서 별도의 오일마중이 필요치 않고, Mechanical-seal이 적용되지 않아, 공회전에 의한 고장발생이 없으며, 외관이 콤팩트하여 범용 공작기계에 널리 사용된다.
- ACP-F series is a submerged pump. The pump part is submerged in tank so It doesn't need to do extra oil priming work. It has little idle working trouble because of no mechanical seal. It is compact design and widely used in general machine tools.

TYPE	PUMP				MOTOR				Weight (kg)
	Dis' volume (ℓ/min)	Head (m)	In-let& Out-Let (PS)	Immersion depth (mm)	Out-put (W)	Frequency (Hz)	Voltage (V)	Current (A)	
★ ACP-60F	25	2	3/8"	145	60	50	200/380/415	0.40/0.24/0.22	6.5
	30					60			
★ ACP-100F	35	2	3/8"	150	100	50	200/380/415	0.50/0.29/0.27	7.0
	45					60			
★ ACP-180F	75	3	1/2"	180	180	50	200/380/415	1.00/0.58/0.56	10.5
	90					60			
★ ACP-250F	120	4	3/4"	258	250	50	200/380/415	1.50/0.87/0.82	14.0
	150					60			
★ ACP-400F	140	5	1"	280	400	50	200/380/415	2.60/1.50/1.40	15.0
	200					60			

★ 표시가 되어있는 모델은 유용성 절삭유 사용이 가능함.(32cSt 이하) The model indicated ★ mark can use coolant with the oil. (below 32cSt)

● 적용 Applications

- 사용유체 Type of fluid : Water/Coolant, Cutting oil, Grinding oil
- 사용점도 Viscosity : 2~32cSt이하
- 사용온도 Temperature : 80°C이하

● 보호등급 (Enclosure class)

IP44 : ACP-60F, 100F, 180F, 250F, 400F

● 절연등급 (Insulation class)

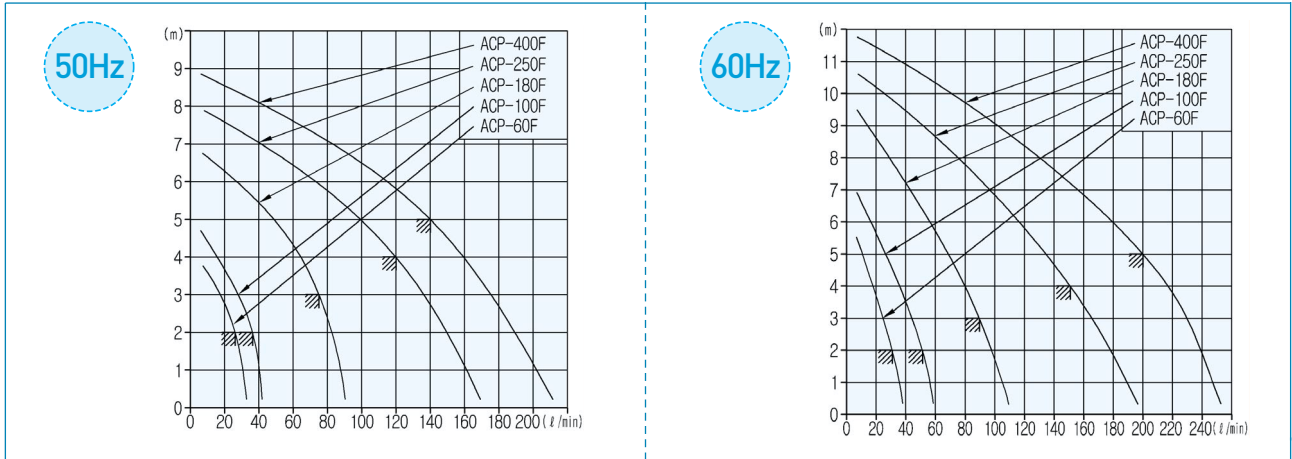
• E : ACP-60F, 100F, 180F, 250F • F : ACP-400F

※ 상기 표에 있는 정격전압(220V/380V)은 표준 사양임. 그 외 전압에 따른 사양은 주문생산이 가능하므로 문의바랍니다.

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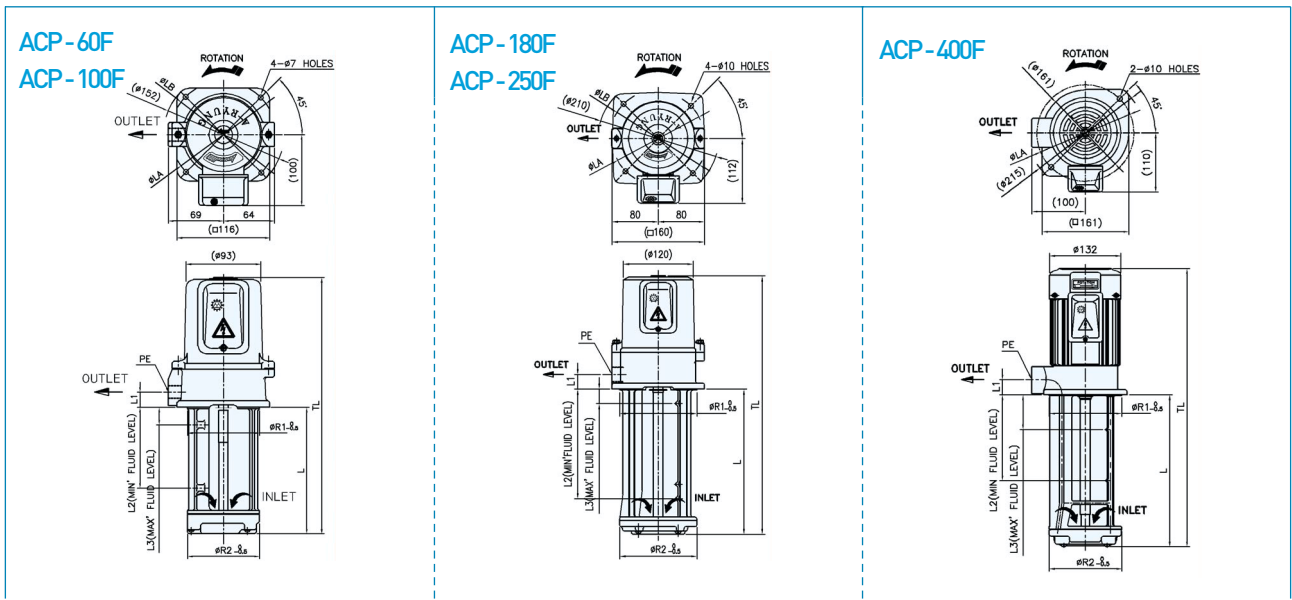
ACP-F Series

Performance range (Solubility in water)



※ 위 Data는 유온 20℃, 점도 2cSt에서 작성 되었다. (Above data is test in the viscosity 2cSt, oil temperature 20℃.)

External dimensions (외형도)



TYPE	L	L1	L2	L3	TL	ØR1	ØR2	ØLA	ØLB	PE
ACP-60F	145	19	100	20	307	90	90	132	130	PS 3/8"
ACP-100F	150				312			132	134	
ACP-180F	180	20	118	25	365	115	115	160	134	PS 1/2"
ACP-250F	258		165		454	134	134	160	170	
ACP-400F	280	28	160	65	515	135	135	180 (180)	-	PS 1"

※ About ØLA and ØLB in the above table, the value in the parenthesis is applied only to domestic (korea) use.
 위 표의 ØLA, LB의 ()안의 치수는 국내사용 규격입니다.

Coolant pumps

◎ ACP-HF Series



ACP - 400 - HF - 18

Motor out-put
출력(W)

Pump type
펌프형식

Depth of immersion
침수깊이(cm)

• ACP-HF Type은 다소 양정이 요구되는 공작기계에 사용되는 침수식 펌프로서 별도의 오일마중이 필요치 않고, Mechanical-seal이 적용되지 않아 공회전에 의한 고장발생이 없으며, 외관이 콤팩트하여 범용 공작기계에 널리 사용 된다.

• ACP-HF series is used in machine tools needed higher lift-up than ACP-F type. It has little idle working trouble because of no mechanical seal. It is compact design and widely used in general machine tools.

TYPE	PUMP				MOTOR				Weight (kg)
	Dis' volume (ℓ/min)	Head (m)	In-let& Out-Let (PS)	Immersion depth (mm)	Out-put (W)	Frequency (Hz)	Voltage (V)	Current (A)	
★ ACP-180HF 18	20	8	1/2"	180 250	180	50	200/380/415	1.10/0.64/0.58	11.0
★ ACP-180HF 25		12							
★ ACP-250HF 18	20	9	3/4"	180 250	250	50	200/380/415	1.60/0.93/0.85	12.0
★ ACP-250HF 25		13							
★ ACP-400HF 18	40~200	12~3	1"	180 280	400	50	200/380/415	2.60/1.50/1.40	15.0
★ ACP-400HF 28		16~3							
★ ACP-600HF 18	60	10	1"	180 280	600	50	200/380/415	3.00/1.70/1.60	19.0
★ ACP-600HF 28		15							

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● 적용 Applications

- 사용유체 Type of fluid : Water/Coolant, Cutting oil, Grinding oil
- 사용점도 Viscosity : 2~32cSt이하
- 사용온도 Temperature : 80°C이하

● 보호등급 (Enclosure class)

IP44 : ACP-180HF, 250HF, 400HF, 600HF

● 절연계급 (Insulation class)

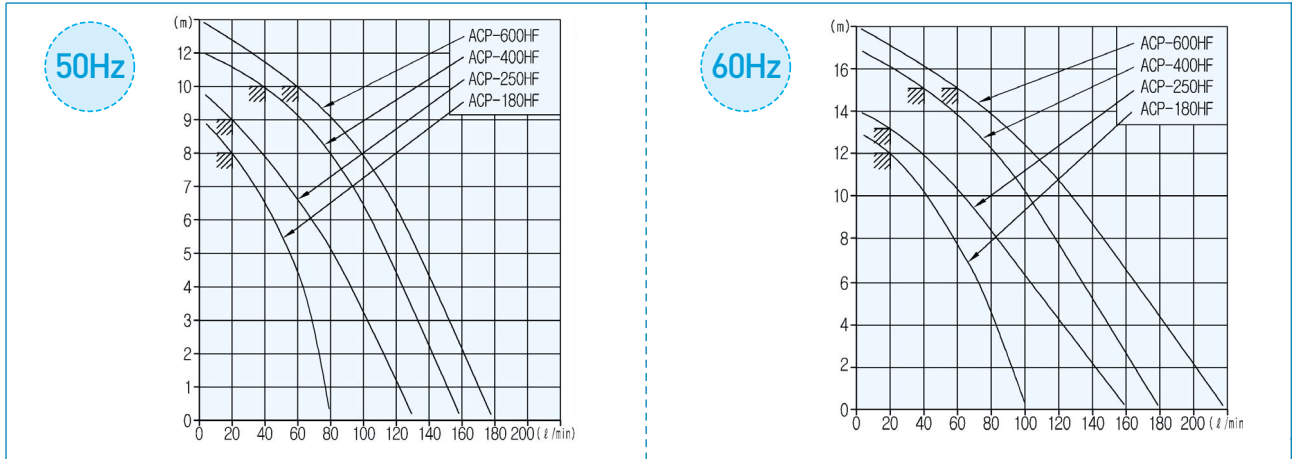
• E : ACP-180HF, 250HF • F : ACP-400HF, 600HF

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ACP-HF Series

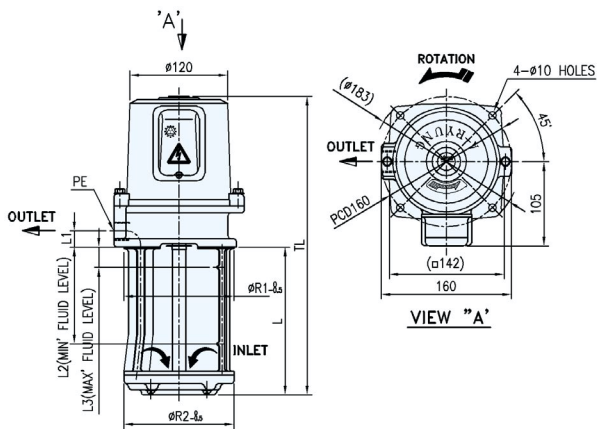
Performance range (Solubility in water)



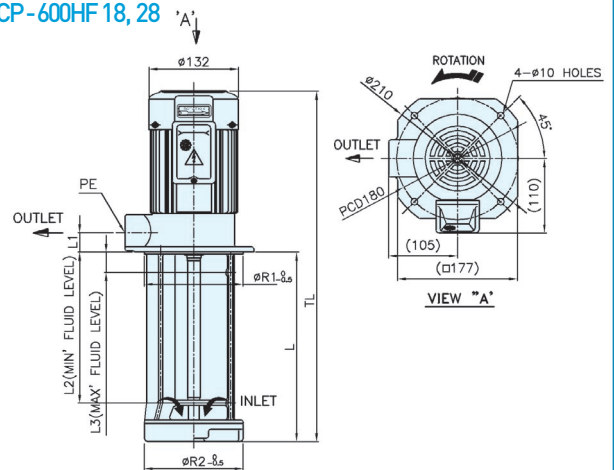
* 위 Data는 유온 20℃, 점도 2cSt에서 작성 되었다. (Above data is test in the viscosity 2cSt, oil temperature 20℃.)

External dimensions (외형도)

ACP-180HF 18, 25
ACP-250HF 18, 25



ACP-400HF 18, 28
ACP-600HF 18, 28



TYPE	L	L1	L2	L3	TL	ØR1	ØR2	PE
ACP-180HF 18	180	25	120	25	365	134	134	PS 1/2"
ACP-180HF 25	250		190		435			
ACP-250HF 18	180	25	120	25	365	134	134	PS 3/4"
ACP-250HF 25	250		190		435			
ACP-400HF 18	180	29	122	20	420	152	146	PS 1"
ACP-400HF 28	280		223		30			
ACP-600HF 18	180	30	123	30	433	152	146	PS 1"
ACP-600HF 28	280		223		30			

Coolant pumps

◎ ACP-FS/HFS Series



ACP - 420 - HFS - 200

Motor out-put _____
출력(W)

Pump Type _____
펌프형식

Depth of immersion _____
침수깊이(mm)

- ACP-FS/HFS Type은 다소 양정이 요구되는 공작기계에 사용되는 침수식 펌프로서 별도의 오일마중이 필요치 않고, Mechanical-seal이 적용되지 않아 공회전에 의한 고생이 없으며, 외관이 콤팩트하여 범용 공작기계에 널리 사용 된다.
- 흡입구를 펌프하단에 설계하여 흡입저항을 줄여 소음 및 펌프의 효율을 향상시켰다.
- ACP-FS/HFS series is used in machine tools needed higher lift-up than ACP-F type. It has little idle working trouble because of no mechanical seal. It is compact design and widely used in general machine tools.
- The decreasing suction friction and high efficiency is improved by setting inlet bottom.

TYPE	PUMP				MOTOR				Weight (kg)
	Dis' volume (l/min)	Head (m)	In-let& Out-Let (PS)	Immersion depth (mm)	Out-put (W)	Frequency (Hz)	Voltage (V)	Current (A)	
★ ACP-100FS 120	35	2	3/8"	120	100	50	200/380/415	0.50/0.29/0.27	6.0
	45					60		0.55/0.32/0.31	
★ ACP-180HFS 160	20	8	1/2"	160	180	50	200/380/415	1.10/0.64/0.58	9.0
		12				60		1.20/0.70/0.65	
★ ACP-250HFS 160	20	9	3/4"	160	250	50	200/380/415	1.60/0.93/0.85	10.0
		13				60		1.70/0.98/0.92	
★ ACP-420HFS 110	40	10	1"	110 200	400	50	200/380/415	2.60/1.50/1.40	12.0
★ ACP-420HFS 200		15				60		200/380/440	2.70/1.60/1.50
★ ACP-400FS 250	140	5	1"	250	400	50	200/380/415	2.60/1.50/1.40	17.0
	200					60		200/380/440	

★ 표시가 되어있는 모델은 유용성 절삭유 사용이 가능함.(32cSt 이하) The model indicated ★ mark can use coolant with the oil. (below 32cSt)

● 적용 Applications

- 사용유체 Type of fluid : Water/Coolant, Cutting oil, Grinding oil
- 사용점도 Viscosity : 2~32cSt이하
- 사용온도 Temperature : 80°C이하

● 보호등급 (Enclosure class)

IP44 : ACP-100FS, 180HFS, 250HFS, 400HFS(FS)

● 절연계급 (Insulation class)

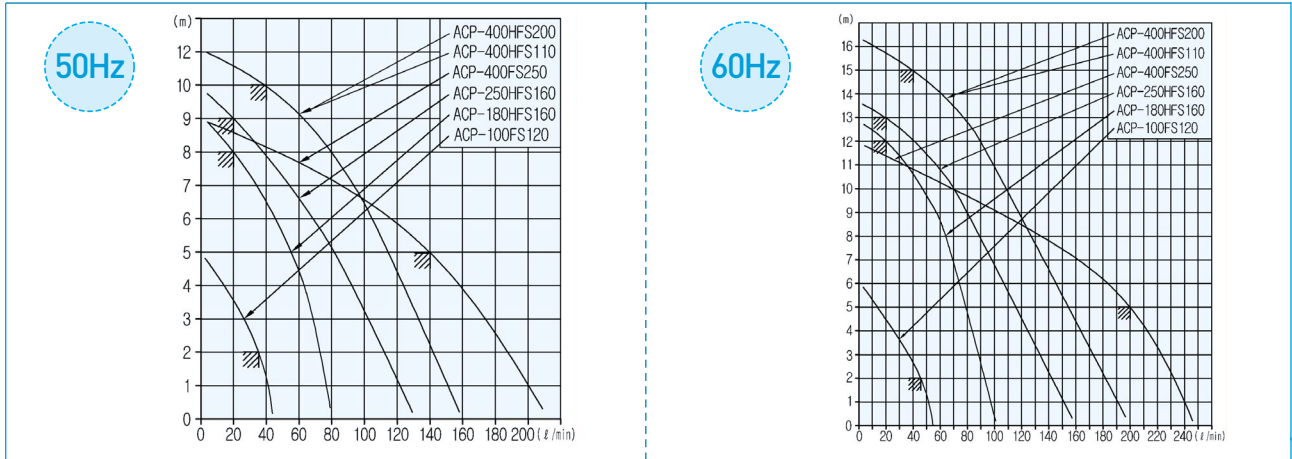
• E : ACP-100FS, 180HFS, 250HFS • F : ACP-400HFS(FS)

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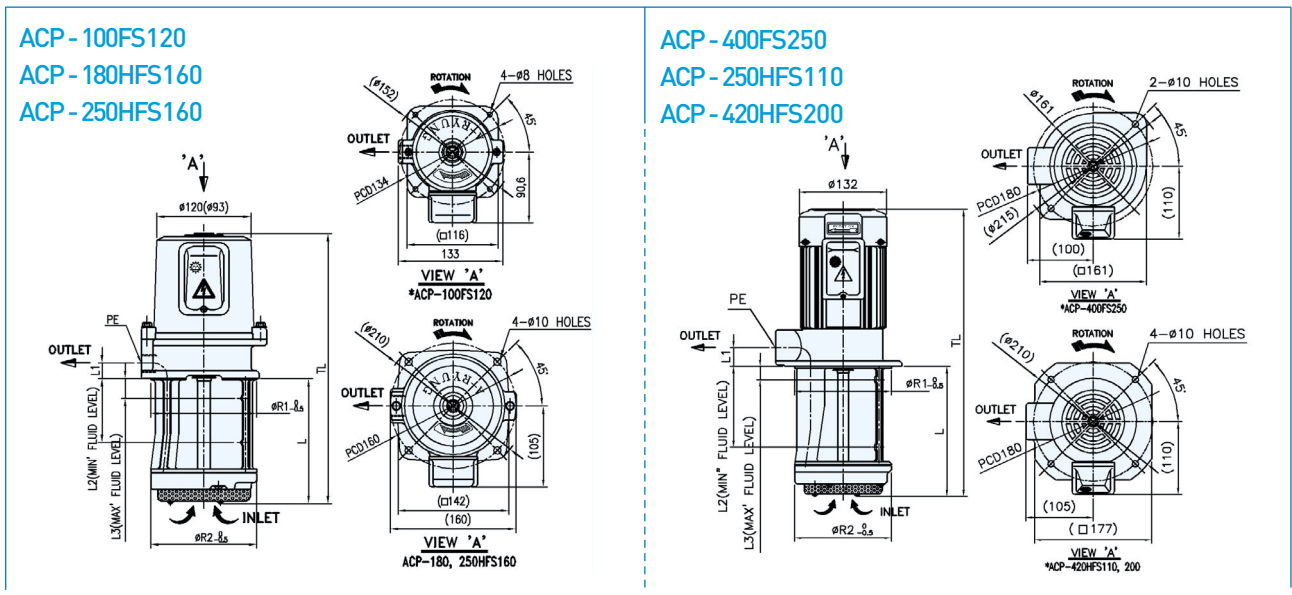
ACP-FS/HFS Series

Performance range (Solubility in water)



* 위 Data는 유온 20℃, 점도 2cSt에서 작성 되었다. (Above data is test in the viscosity 2cSt, oil temperature 20℃.)

External dimensions (외형도)



TYPE	L	L1	L2	L3	TL	ØR1	ØR2	PE
ACP-100FS 120	120	19	70	20	282	90	90	PS 3/8"
ACP-180HFS 160	160	20	80	25	345	134	134	PS 1/2"
ACP-250HFS 160								PS 3/4"
ACP-420HFS 110	110	29	60	20	350	152	146	PS 1"
ACP-420HFS 200	200		122		440			
ACP-400FS 250	250	28	160		485	135	135	PS 1"

Coolant pumps

◎ ACP-MF(S) Series

ACP - 900 - MF(S)



Motor out-put
출력(W)

Pump type
펌프형식

- ACP-MF(S) Type은 대유량 다단 원심펌프로서 많은 유량을 필요로 하는 고정밀, 고기능의 대형기계에 주로 사용되며, 가공물을 냉각시켜 표면조도를 향상시키고, 절삭된 칩을 분산시켜 흘러내리게 하거나, 세척하는데 매우 적합하다.
- 모터와 펌프부분사이 일정 간격을 유지하여 모터에서 발생된 열이 펌프에 직접 전달되지 않도록 설계되어 유온상승의 영향을 주지 않는다.
- 특수 제작된 Mechanical-seal이 내장되어 내구성이 우수하다.
- ACP-MF(S) is multi-stage centrifugal pump & used large quantity of oil flow for large machine with high precision & efficiency. It is proper to make working parts surface slick by flowing down & washing chips by cooling fluid.
- This pump is designed not to transfer the temperature of motor directly to pump (pump & motor designed separately). So the oil temperature can keep constantly.
- The special mechanical seal improves the pump life.

TYPE	PUMP				MOTOR				Weight (kg)
	Dis' volume (ℓ/min)	Head (m)	Out-Let (PS)	Immersion depth (mm)	Out-put (W)	Frequency (Hz)	Voltage (V)	Current (A)	
★ ACP-400MF	150	5	1 1/4"	245	400	50	200/380/415	2.6/1.5/1.4	25.0
★ ACP-400MFS	165	15		210		60	200/380/440	2.7/1.6/1.5	24.0
★ ACP-900MF	180	10		245	900	50	200/380/415	4.3/2.4/2.1	27.0
★ ACP-900MFS	165	15		210		60	200/380/440	5.2/3.0/2.6	26.0
★ ACP-1100MF	230	10		290	1,100	50	220/380/415	4.8/2.8/2.4	28.5
	210	20				60	220/380/440	5.8/3.4/2.9	
★ ACP-1500MF	260	10	280	1,500	50	200/380/415	6.9/4.0/3.8	38.0	
★ ACP-1500MFS		20			190	60	220/380/440	7.6/4.4/4.3	30.0
★ ACP-2200MF	300	10	280	2,200	50	200/380/415	10.0/5.8/5.6	42.0	
	325	20			60	220/380/440	11.0/6.4/6.1		
★ ACP-3700MF	350	10	350	3,700	50	200/380/415	15.6/9.0/8.6	46.0	
	380	20			60	220/380/440	18.0/10.4/9.8		

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● 적용 Applications

- 사용유체 Type of fluid : Water/Coolant, Cutting oil, Grinding oil
- 사용점도 Viscosity : 2~32cSt이하
- 사용온도 Temperature : 80°C이하

● 보호등급 (Enclosure class)

- IP44 : ACP-400MF(S), 900MF(S), 1100MF
- IP54 : ACP-1500MF(S), 2200MF, 3700MF

● 절연계급 (Insulation class) : F

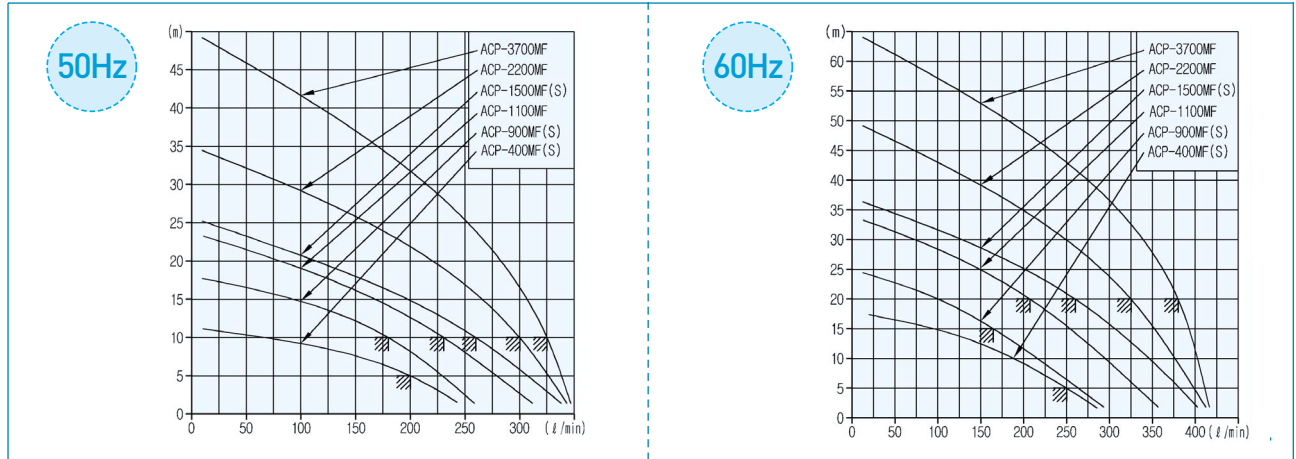
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※ Rated voltage in above table is standard specifications. Other voltage specifications can be manufactured by buyer's demands. Contact us first.

Multi-stage Centrifugal Immersion Type

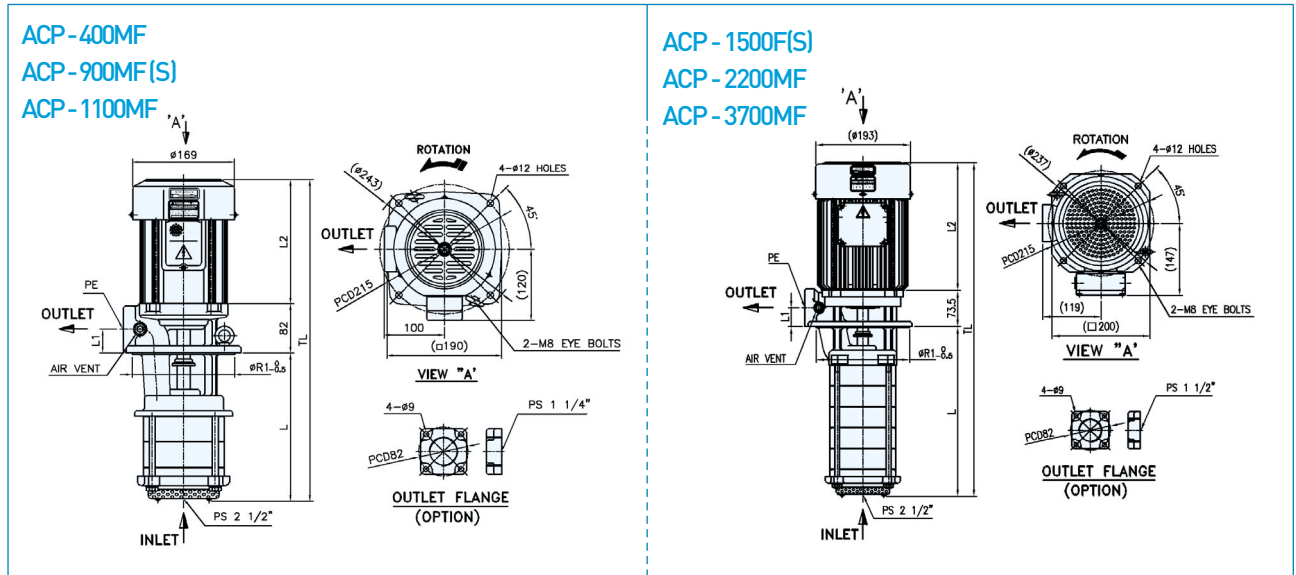
ACP-MF(S) Series

Performance range (Solubility in water)



※ 위 Data는 유온 20℃, 점도 2cSt에서 작성 되었다. (Above data is test in the viscosity 2cSt, oil temperature 20℃.)

External dimensions (외형도)



TYPE	L	L1	L2	TL	ØR1	PE
ACP-400MF	245	40	205	532	170	PS 1 1/4"
ACP-400MFS	210			497		
ACP-900MF	245		532			
ACP-900MFS	210		497			
ACP-1100MF	290	38	215	587	180	PS 1 1/2"
ACP-1500MF	280			214		
ACP-1500MFS	190		478			
ACP-2200MF	280		585			
ACP-3700MF	350	266	690			

※ 최저효율제 시행 적용시 외형 치수가 변경될 수 있습니다. [External Dimension is subject to change according to Minimum Energy Efficiency policy.]

Coolant pumps

◎ ACP-BMF Series



ACP - 1500 - BMF

Motor out-put
출력(W)

Pump type
펌프형식

- ACP-BMF Type은 대유량 다단 원심펌프로서 많은 유량을 필요로 하는 고정밀, 고기능의 대형기계에 주로 사용되며, 가공물을 냉각시켜 표면조도를 향상시키고, 절삭된 칩을 분산시켜 흘러내리게 하거나, 세척하는데 매우 적합하다.
- 모터와 펌프부사이 일정 간격을 유지하여 모터에서 발생된 열이 펌프에 직접 전달되지 않도록 설계되어 유온상승의 영향을 주지 않는다.
- 특수 제작된 Mechanical-seal이 내장되어 내구성이 우수하다.
- ACP-BMF is multi-stage centrifugal pump & used large quantity of oil flow for large machine with high precision & efficiency. It is proper to make working parts surface slick by flowing down & washing chips by cooling fluid.
- This pump is designed not to transfer the temperature of motor directly to pump (pump & motor designed separately). So the oil temperature can keep constantly.
- The special mechanical seal improves the pump life.

TYPE	PUMP				MOTOR				Weight (kg)
	Dis' volume (l/min)	Head (m)	Out-Let (PS)	Immersion depth (mm)	Out-put (W)	Frequency (Hz)	Voltage (V)	Current (A)	
★ ACP-1500BMF	300	10	2"	250	1,500	50	200/380/415	6.9/4.0/3.8	45.0
	400	12						7.6/4.4/4.3	
ACP-2200BMF	400	10	2"	250	2,200	50	200/380/415	10.0/5.8/5.6	46.0
		20						11.0/6.4/6.1	
★ ACP-3700BMF	450	10	2"	355	3,700	50	200/380/415	15.6/9.0/8.6	50.0
	500	20						18.0/10.4/9.8	
★ ACP-5500BMF	480	10	2"	355	5,500	50	200/380/415	17.5/10.1/9.5	57.0
	550	20						25.0/14.4/13.0	

★ 표시가 되어있는 모델은 유용성 절삭유 사용이 가능함.(32cSt 이하) The model indicated ★ mark can use coolant with the oil. (below 32cSt)

● 적용 Applications

- 사용유체 Type of fluid : Water/Coolant, Cutting oil, Grinding oil
- 사용점도 Viscosity : 2~32cSt이하
- 사용온도 Temperature : 80°C이하

● 보호등급 (Enclosure class) : IP54

● 절연등급 (Insulation class) : F

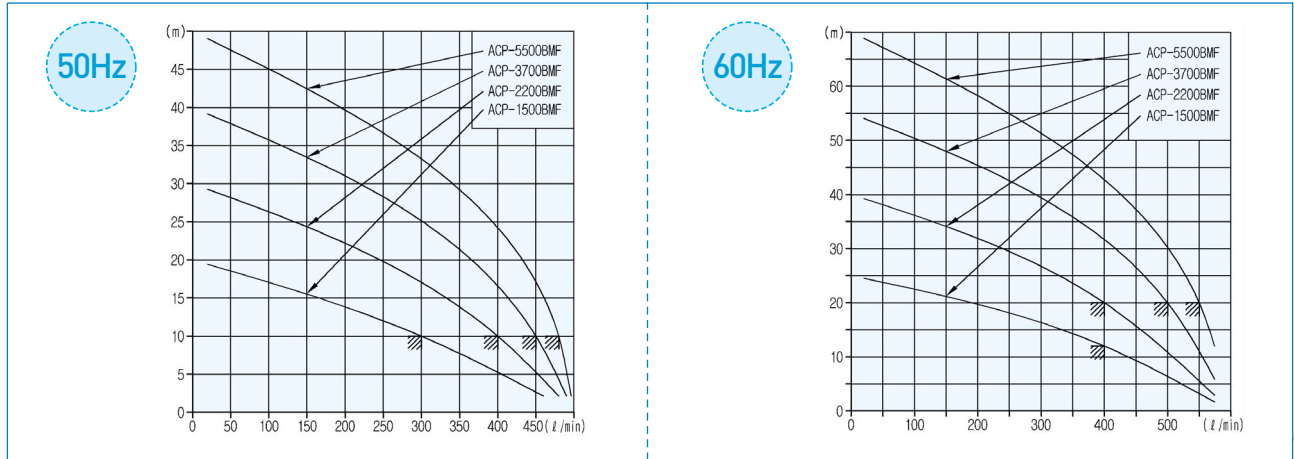
※ 상기 표에 있는 정격전압(220V/380V)은 표준 사양임. 그 외 전압에 따른 사양은 주문생산이 가능하므로 문의바랍니다.

※ Rated voltage in above table is standard specifications. Other voltage specifications can be manufactured by buyer's demands. Contact us first.

Multi-stage Centrifugal Immersion Type

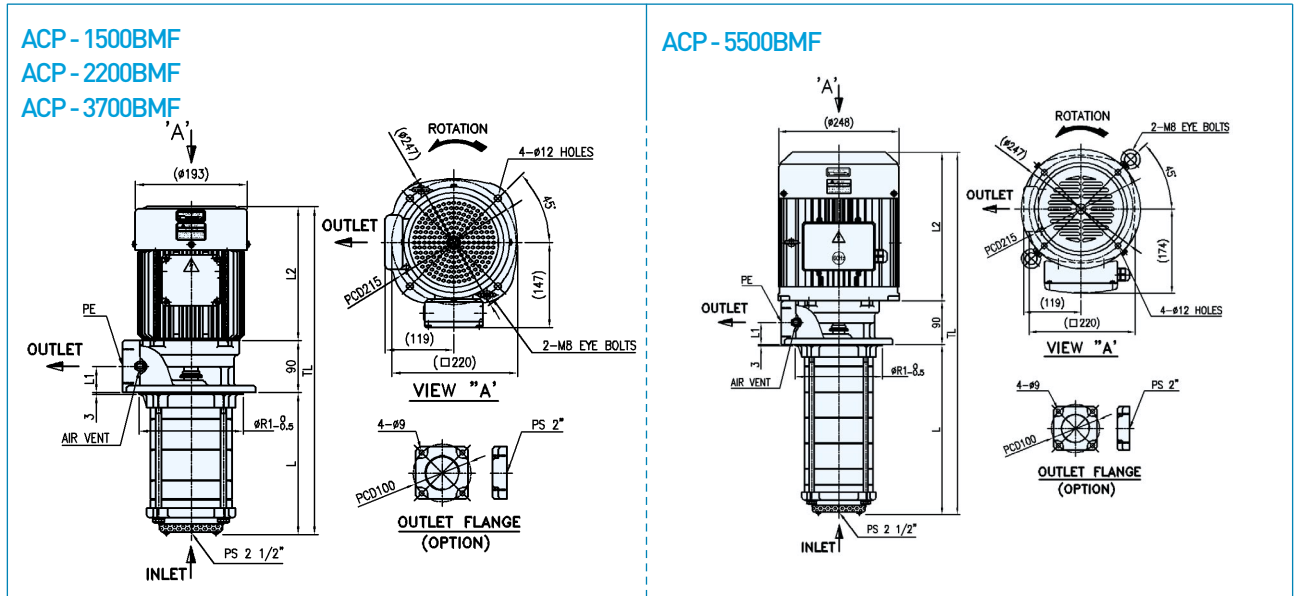
ACP-BMF Series

Performance range (Solubility in water)



※ 위 Data는 유온 20℃, 점도 2cSt에서 작성 되었다. (Above data is test in the viscosity 2cSt, oil temperature 20℃.)

External dimensions (외형도)



TYPE	L	L1	L2	TL	ØR1	PE
ACP-1500BMF	250	45	214	554	180	PS 2"
ACP-2200BMF	250		231	571		
ACP-3700BMF	355		266	711		
ACP-5500BMF	355		306	751		

※ 최저효율제 시행 적용시 외형 치수가 변경될 수 있습니다. [External Dimension is subject to change according to Minimum Energy Efficiency policy.]

Coolant pumps

◎ ACP-HMFS Series

ACP - 900 - HMFS - 45



Motor out-put
출력(W)

Pump type
펌프형식

Delivery head
양정(m)

- ACP-HMFS Type은 양정형 다단 원심펌프로서 높은 압력을 필요로 하는 고정밀, 고기능의 공작기계에 매우 적합하다.
- 모터와 펌프부사이 일정간격을 유지하여 모터에서 발생된 열이 펌프에 직접 전달되지 않도록 설계되어 유온상승이 영향을 주지 않는다.
- 특수 제작된 Mechanical-seal이 내장되어 내구성이 우수하다.
- ACP-HMFS series is multi-staged high head pump & used large quantity of oil flow for large machine with high precision & efficiency.
- This pump is designed not to transfer the temperature of motor directly to pump (pump & motor designed separately). So the oil temperature can keep constantly.
- The special mechanical seal improves the pump life.

TYPE	PUMP				MOTOR				Weight (kg)
	Dis' volume (ℓ/min)	Head (m)	Out-Let (PS)	Immersion depth (mm)	Out-put (W)	Frequency (Hz)	Voltage (V)	Current (A)	
★ ACP-900HMFS 30 ACP-900HMFS 45	30	20 30	3/4"	170	900	50	200/380/415	4.3/2.4/2.1	25.0 26.0
		30 45				60	220/380/440	5.2/3.0/2.6	
★ ACP-1100HMFS 60	30	40 60	3/4"	190	1,100	50	220/380/415	4.8/2.8/2.4	27.0
		60				60	220/380/440	5.8/3.3/2.9	
ACP-1500HMFS 70	30	55 70	3/4"	190	1,500	50	200/380/415	6.9/4.0/3.8	30.0
		70				60	220/380/440	7.6/4.4/4.3	
★ ACP-2200HMFS 85 ACP-2200HMFS 100	30	65 75	3/4"	245	2,200	50	200/380/415	10.0/5.8/5.6	37.0 38.0
		85 100				60	220/380/440	11.0/6.4/6.1	
★ ACP-3700HMFS 115 ★ ACP-3700HMFS 130 ACP-3700HMFS 145	30	90 100 110	3/4"	325	3,700	50	200/380/415	15.6/9.0/8.6	47.0 48.0 49.0
		115 130 145				60	220/380/440	18.0/10.4/9.8	

★ 표시가 되어있는 모델은 유용성 절삭유 사용이 가능함.(32cSt 이하) The model indicated ★ mark can use coolant with the oil. (below 32cSt)

● 적용 Applications

- 사용유체 Type of fluid : Water/Coolant, Cutting oil, Grinding oil
- 사용점도 Viscosity : 2~32cSt이하
- 사용온도 Temperature : 80°C이하

● 보호등급 (Enclosure class)

- IP44 : ACP-900HMFS, 1100HMFS
- IP54 : ACP-1500HMFS, 2200HMFS, 3700HMFS

● 절연계급 (Insulation class) : F

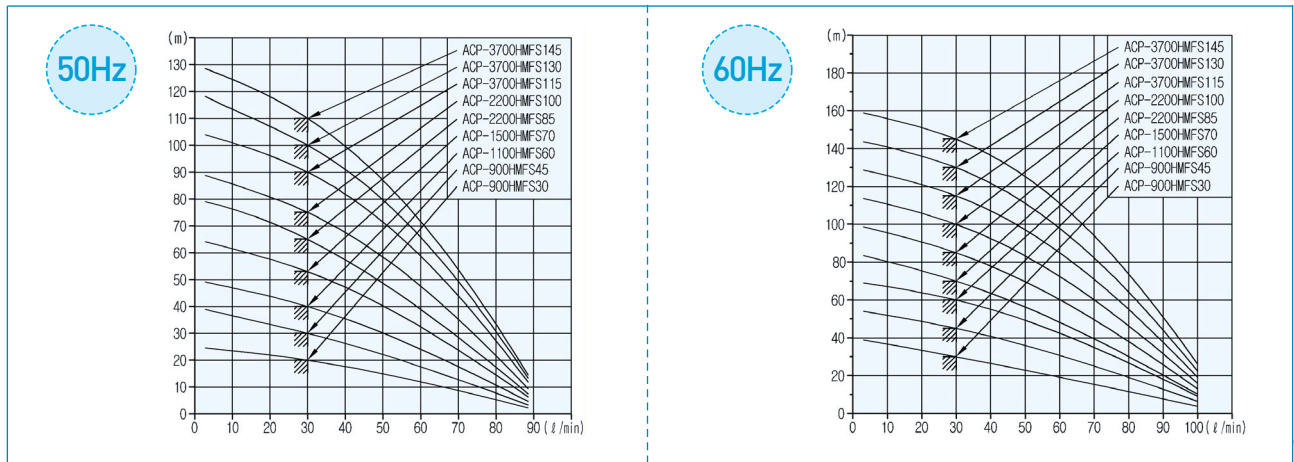
※ 상기 표에 있는 정격전압(220V/380V)은 표준 사양임. 그 외 전압에 따른 사양은 주문생산이 가능하므로 문의바랍니다.

※ Rated voltage in above table is standard specifications. Other voltage specifications can be manufactured by buyer's demands. Contact us first.

Multi-stage Centrifugal Immersion Type

◎ ACP-HMFS Series

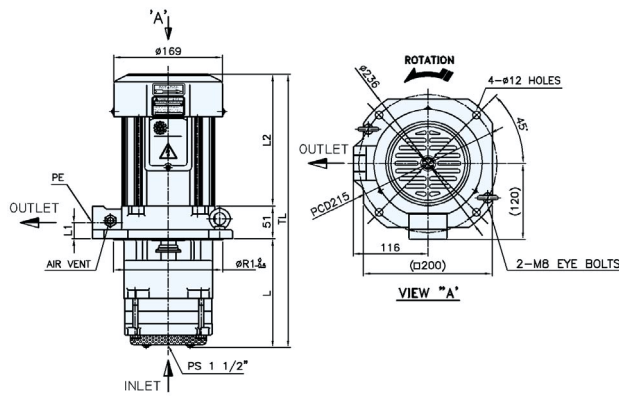
Performance range (Solubility in water)



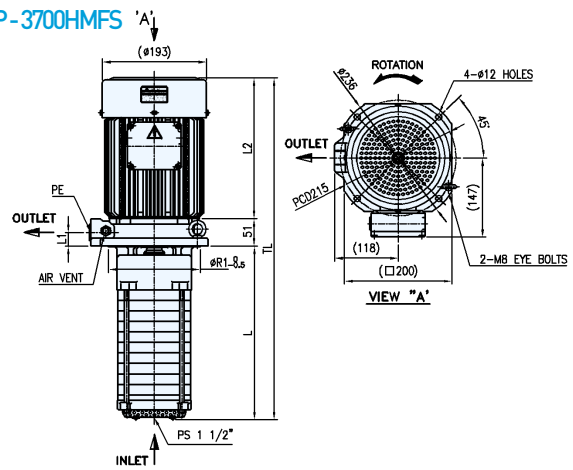
※ 위 Data는 유온 20℃, 점도 2cSt에서 작성 되었다. (Above data is test in the viscosity 2cSt, oil temperature 20℃.)

External dimensions (외형도)

ACP - 900HMFS
ACP - 1100HMFS



ACP - 1500HMFS
ACP - 2200HMFS
ACP - 3700HMFS



TYPE	L	L1	L2	TL	ØR1	PE
ACP-900HMFS	170	25	205	426	170	PS 3/4"
ACP-1100HMFS	190		214	455		
ACP-1500HMFS	190		214	455		
ACP-2200HMFS	245		231	527		
ACP-3700HMFS	325		266	642		

※ 최저효율제 시행 적용시 외형 치수가 변경될 수 있습니다. (External Dimension is subject to change according to Minimum Energy Efficiency policy.)

Coolant pumps

◎ ACP-HMFC Series



ACP - 3700 - HMFC - 180V

Motor out-put _____
출력(W)

Pump type _____
펌프형식

Delivery head _____
양정(m)

- ACP-HMFC Type은 양정형 다단 원심펌프로서 높은 압력을 필요로 하는 고정밀, 고기능의 공작기계에 매우 적합하다.
- 모터와 펌프부분사이 일정간격을 유지하여 모터에서 발생된 열이 펌프에 직접 전달되지 않도록 설계되어 유온상승이 영향을 주지 않는다.
- 특수 제작된 Mechanical-seal이 내장되어 내구성이 우수하다.
- ACP-HMFC series is high head multi-staged centrifugal pump & used large machine with high precision & efficiency.
- This pump is designed not to transfer the temperature of motor directly to pump (pump & motor designed separately). So the oil temperature can keep constantly.
- The special mechanical seal improves the pump life.

TYPE	PUMP				MOTOR				Weight (kg)
	Dis' volume (l/min)	Head (m)	Out-Let (PS)	Immersion depth (mm)	Out-put (W)	Frequency (Hz)	Voltage (V)	Current (A)	
ACP-3700HMFC 180V ACP-3700HMFC 200V	20	125 135	3/4"	320	3,700	50	200/380/415	15.6/9.0/8.6	49.0 50.0
		185 200					220/380/440	18.0/10.4/9.8	
★ ACP-5500HMFC 200V ★ ACP-5500HMFC 220V	20	145 155	3/4"	350	5,500	50	200/380/415	17.5/10.1/9.5	54.0 55.0
		200 220					220/380/440	25.0/14.4/13.0	
ACP-5500HMFC 240V ACP-5500HMFC 260V	20	165 175	3/4"	410	5,500	50	200/380/410	17.5/10.1/9.5	56.0 57.0
		240 260					220/380/440	25.0/14.4/13.0	
ACP-5500HMFC 280V	20	185	3/4"	450	5,500	50	200/380/415	17.5/10.1/9.5	58.0
		280					220/380/440	25.0/14.4/13.0	

★ 표시가 되어있는 모델은 유용성 절삭유 사용이 가능함.(32cSt 이하) The model indicated ★ mark can use coolant with the oil. (below 32cSt)

● 적용 Applications

- 사용유체 Type of fluid : Water/Coolant, Cutting oil, Grinding oil
- 사용점도 Viscosity : 2~32cSt이하
- 사용온도 Temperature : 80°C이하

● 보호등급 (Enclosure class) : IP54

● 절연등급 (Insulation class) : F

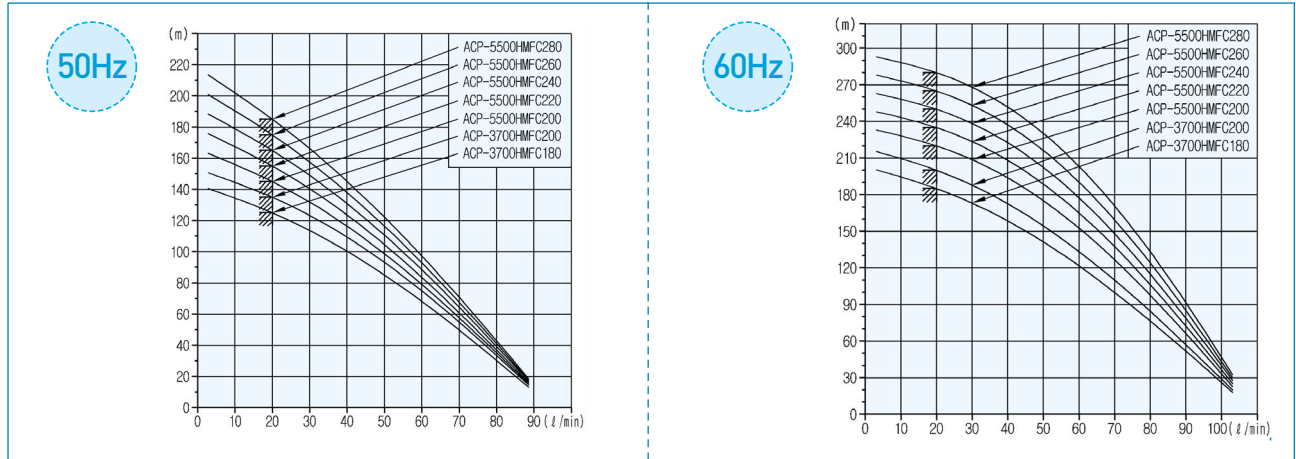
* 상기 표에 있는 정격전압(220V/380V)은 표준 사양임. 그 외 전압에 따른 사양은 주문생산이 가능하므로 문의바랍니다.

* Rated voltage in above table is standard specifications. Other voltage specifications can be manufactured by buyer's demands. Contact us first.

Multi-stage Centrifugal Immersion Type

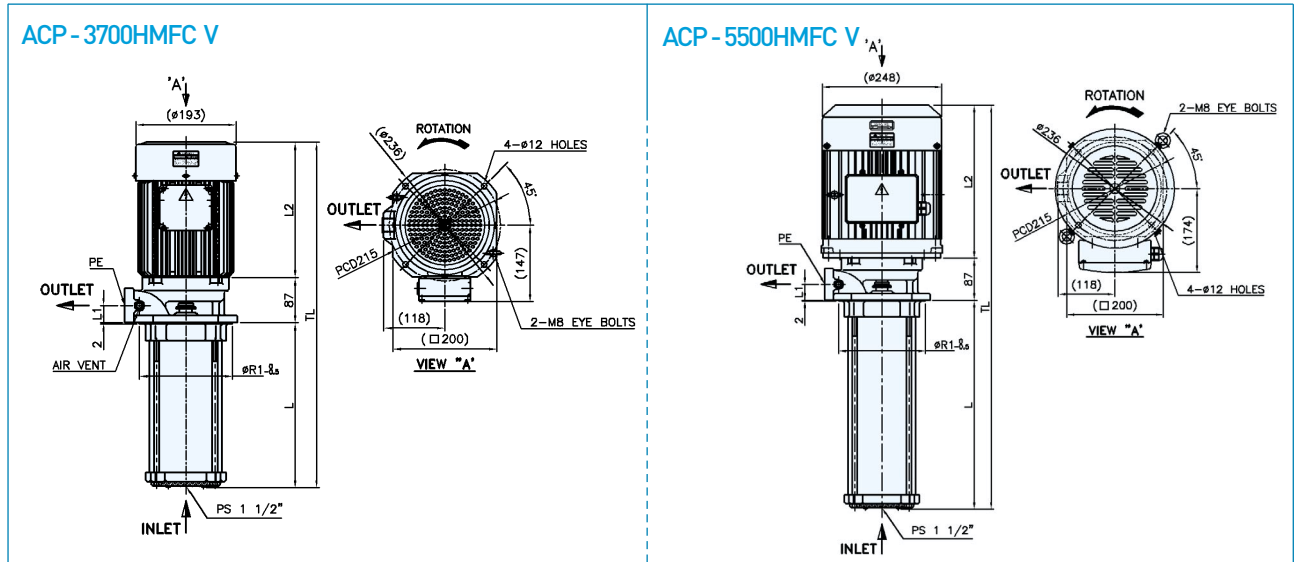
ACP-HMFC Series

Performance range (Solubility in water)



* 위 Data는 유온 20℃, 점도 2cSt에서 작성 되었다. (Above data is test in the viscosity 2cSt, oil temperature 20℃.)

External dimensions (외형도)



TYPE	L	L1	L2	TL	ØR1	PE
ACP-3700HMFC 180V	320	25	261	668	180	PS 3/4"
ACP-3700HMFC 200V				755		
ACP-5500HMFC 200V	410	318	318	815		
ACP-5500HMFC 220V				815		
ACP-5500HMFC 240V				815		
ACP-5500HMFC 260V	450	318	318	855		
ACP-5500HMFC 280V				855		

* 최저효율제 시행 적용시 외형 치수가 변경될 수 있습니다. (External Dimension is subject to change according to Minimum Energy Efficiency policy.)

Coolant pumps

◎ ACP-GMF Series

ACP - 3700 - GMF



Motor out-put
출력(W)

Pump type
펌프형식

- ACP-GMF Type은 대유량 다단 원심펌프로서 많은 유량을 필요로 하는 고정밀, 고기능의 대형기계에 주로 사용되며, 가공물을 냉각시켜 표면조도를 향상시키고, 절삭된 칩을 분산시켜 흘러내리게 하거나, 세척하는데 매우 적합하다.
- 특수 제작된 Mechanical-seal 및 보호 장치가 내장되어 있어 내구성이 우수하여 주로 연삭기용 전용 Pump로 널리 사용 된다.
- ACP-GMF is multi-stage centrifugal pump & used large quantity of oil flow for large machine with high precision & efficiency. It is proper to make working parts surface slick by flowing down & washing chips by cooling fluid.
- Mechanical-seal protection device specially designed and built primarily by excellent durable giyong grinding is widely used as a dedicated Pump.

TYPE	PUMP				MOTOR				Weight (kg)
	Dis' volume (ℓ/min)	Head (m)	Out-Let (PS)	Immersion depth (mm)	Out-put (W)	Frequency (Hz)	Voltage (V)	Current (A)	
★ ACP-3700GMF	380	20	2"	355	3700	50	200/380/415	15.6/9.0/8.6	52.0
	420	30					220/380/440	18.0/10.4/9.8	
★ ACP-5500GMF	430	20	2"	410	5500	50	200/380/415	17.5/10.1/9.5	59.0
	500	30					220/380/440	25.0/14.4/13.0	

★ 표시가 되어있는 모델은 유용성 절삭유 사용이 가능함.(32cSt 이하) The model indicated ★ mark can use coolant with the oil. (below 32cSt)

● 적용 Applications

- 사용유체 Type of fluid : Water/Coolant, Cutting oil, Grinding oil
- 사용점도 Viscosity : 2~32cSt이하
- 사용온도 Temperature : 80℃이하

● 보호등급 (Enclosure class) IP54

● 절연등급 (Insulation class) F

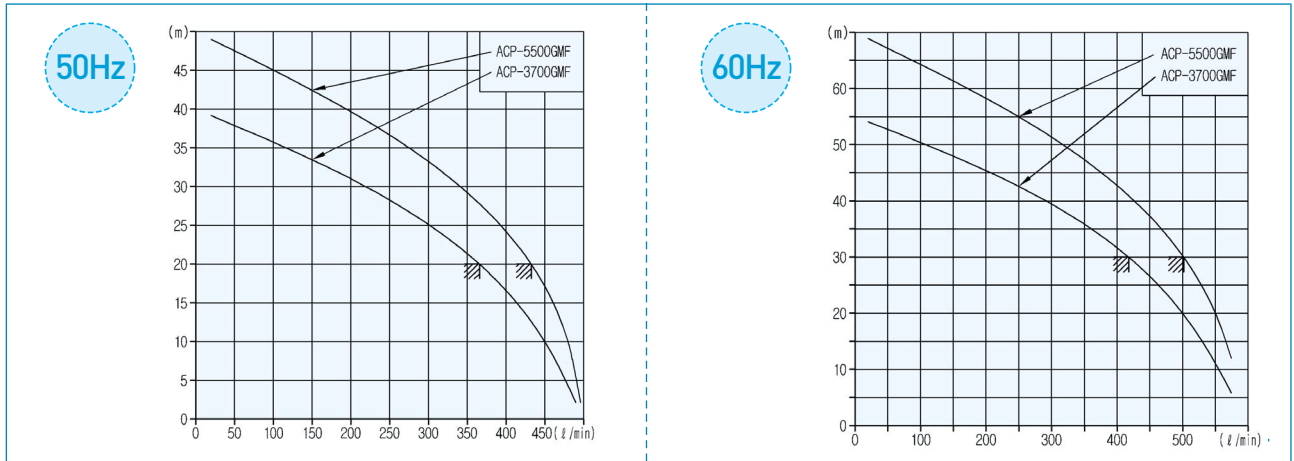
※ 상기 표에 있는 정격전압(220V/380V)은 표준 사양임, 그 외 전압에 따른 사양은 주문생산이 가능하므로 문의바랍니다.

※ Rated voltage in above table is standard specifications. Other voltage specifications can be manufactured by buyer's demands. Contact us first.

Multi-stage Centrifugal Immersion Type

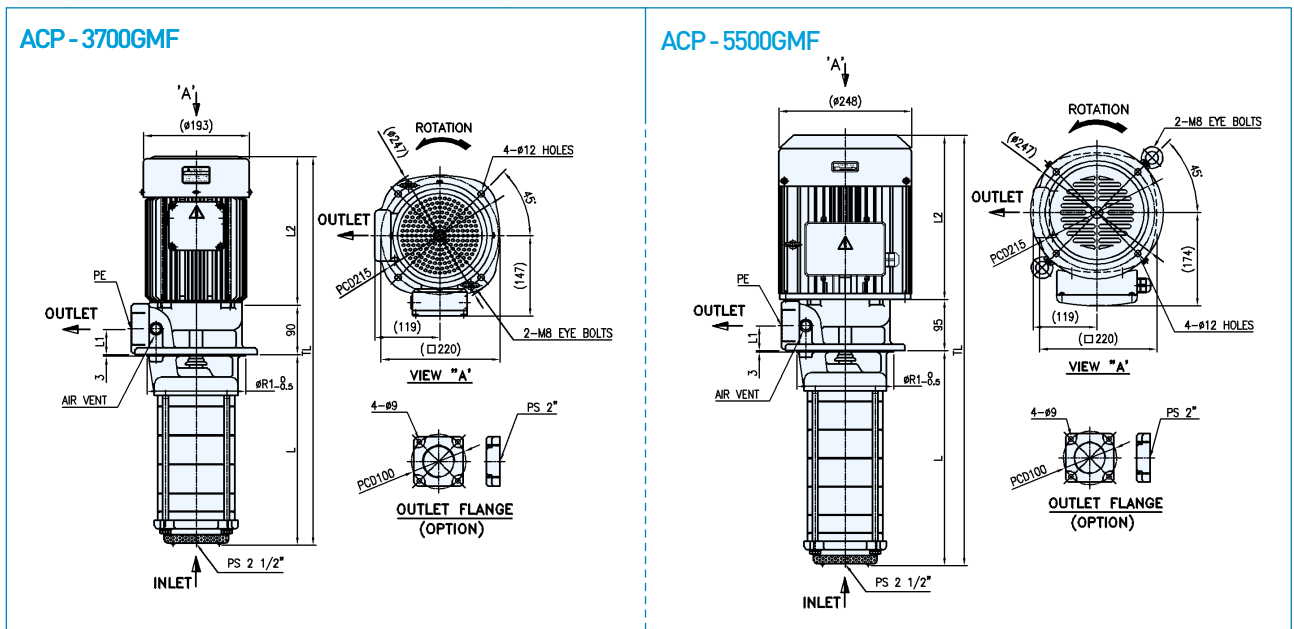
◎ ACP-GMF Series

Performance range (Solubility in water)



※ 위 Data는 유온 20℃, 점도 2cSt에서 작성 되었다. (Above data is test in the viscosity 2cSt, oil temperature 20℃.)

External dimensions (외형도)



TYPE	L	L1	L2	TL	ØR1	PE
ACP-3700GMF	355	45	266	711	180	PS 2"
ACP-5500GMF	410		306	811		

※ 최저효율제 시행 적용시 외형 치수가 변경될 수 있습니다. (External Dimension is subject to change according to Minimum Energy Efficiency policy.)

Coolant pumps

◎ ACP-CMF Series

ACP - 3700 - CMF



Motor out-put
출력(W)

Pump type
펌프형식

- 대유량 다단 원심펌프로서 대형공작기계, 중앙집중식 Coolant system 및 자동차 세척 라인에 적합하다.
- 모터와 펌프부분사이 일정 간격을 유지하여 모터에서 발생된 열이 펌프에 직접 전달되지 않도록 설계되어 유온상승의 영향을 주지 않는다.
- ACP-CMF series is multi-staged centrifugal pump & used large quantity of oil flow for machine, central coolant system, auto washing line.
- This pump is designed not to transfer the temperature of motor directly to pump (pump & motor designed separately). So the oil temperature can keep constantly.

TYPE	PUMP				MOTOR				Weight (kg)
	Max' volume (l/min)	Total Head (m)	Out Let	Immersion depth (mm)	Out-put (W)	Frequency (Hz)	Voltage (V)	Current (A)	
ACP-5500CMF	800	20	KS-65A(10K)	230	5500	50	200/380	18.3/10.6	83.0
	900	35				60	220/380	18.4/10.7	
ACP-7500CMF	800	30		230	7500	50	200/380	24.4/14.1	90.0
	930	45				60	220/380	24.6/14.2	

★ 표시가 되어있는 모델은 유용성 절삭유 사용이 가능함.(32cSt 이하) The model indicated ★ mark can use coolant with the oil. (below 32cSt)

● 적용 Applications

- 사용유체 Type of fluid : Water/Coolant, Cutting oil, Grinding oil
- 사용점도 Viscosity : 2~32cSt이하
- 사용온도 Temperature : 80°C이하

● 보호등급 (Enclosure class) : IP54

● 절연계급 (Insulation class) : F

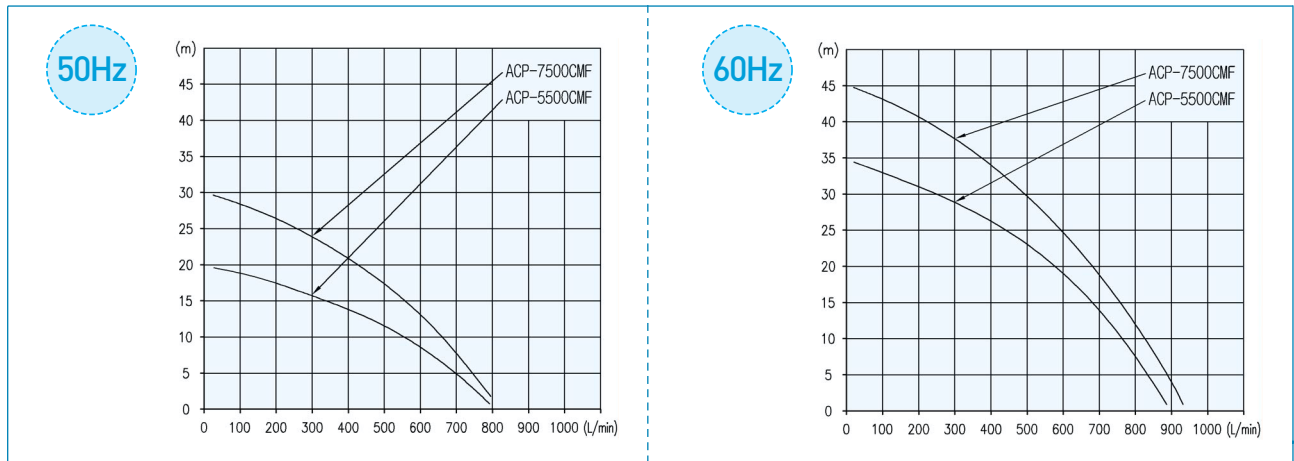
※ 상기 표에 있는 정격전압(220V/380V)은 표준 사양임, 그 외 전압에 따른 사양은 주문생산이 가능하므로 문의바랍니다.

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Multi-stage Centrifugal Immersion Type

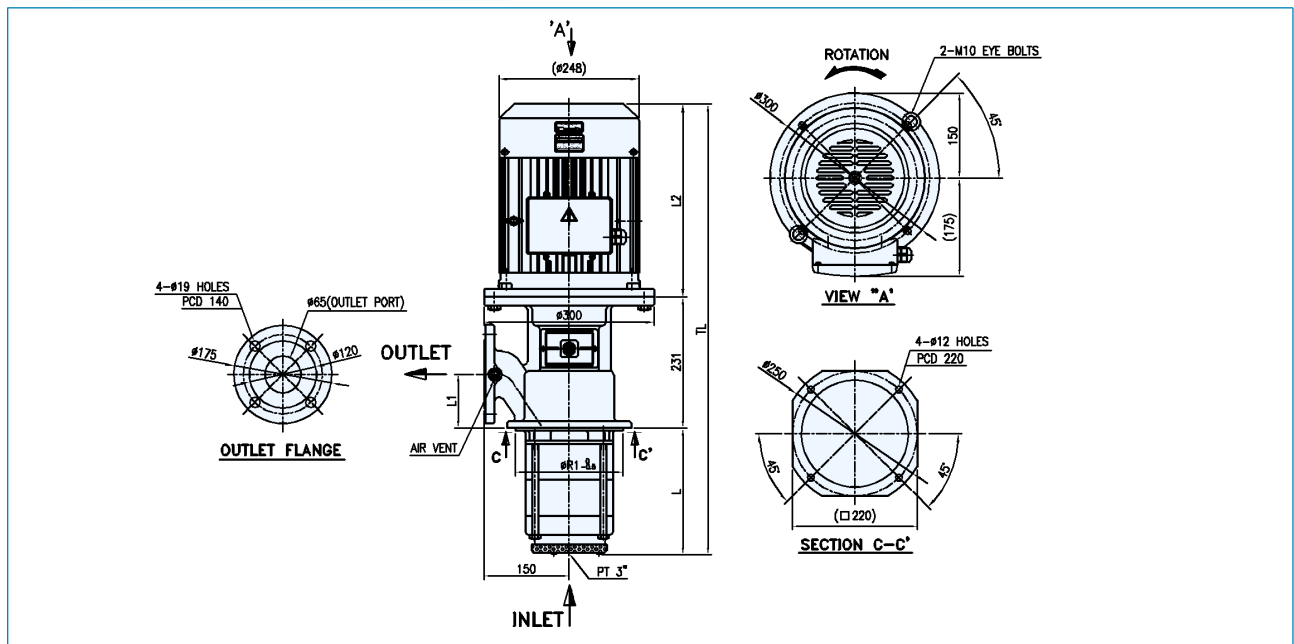
◎ ACP-CMF Series

Performance range (Solubility in water)



※ 위 Data는 유온 20℃, 점도 2cSt에서 작성 되었다. (Above data is test in the viscosity 2cSt, oil temperature 20℃.)

External dimensions (외형도)



TYPE	L	L1	L2	TL	ØR1	OUTLET PORT
ACP-5500CMF	230	95	341	802	190	KS-65A(10K)
ACP-7500CMF			371	832		

※ 최저효율제 시행 적용시 외형 치수가 변경될 수 있습니다. [External Dimension is subject to change according to Minimum Energy Efficiency policy.]

Coolant pumps

◎ ACP-A Series

ACP - 401 - A



Motor out-put _____
출력(W)

Pump type _____
펌프형식

- ACP-A Type은 자흡식 펌프로서 설치공간의 제약을 적게 받으며, 외관이 콤팩트하여 범용 공작기계에 널리사용 된다.
- 이 펌프는 처음 운전을 할 때 토출구측에 절삭유를 부어넣어 자흡실이 완전히 충만된 상태에서 작동 시킬것.
- 메커니칼실을 채용하고 있으므로 장시간 공회전을 하지말 것.(30초 이내)
- This type is a self-suction pump, and it has little restriction to install in small space. This type is used general machine.
- For the first operation of pump, the oil should be completely filled in the self suction room.
- Do not operate the pump after too long idle time because it causes mechanical seal damage.(idle time; within 30 seconds)

TYPE	PUMP			MOTOR				Weight (kg)
	Dis' volume (l /min)	Head (m)	In-let& Out-Let (PS)	Out-put (W)	Frequency (Hz)	Voltage (V)	Current (A)	
ACP-61A	20	2	3/8"	60	50	200/380/415	0.40/0.24/0.22	7.3
	25				60	220/380/440	0.45/0.26/0.25	
ACP-101A	30	2	3/8"	100	50	200/380/415	0.50/0.29/0.27	7.6
	36				60	220/380/440	0.55/0.32/0.31	
★ ACP-181A	53	3	1/2"	180	50	200/380/415	1.00/0.58/0.56	12.0
	70				60	220/380/440	1.10/0.64/0.60	
★ ACP-251A	85	4	3/4"	250	50	200/380/415	1.50/0.87/0.82	12.6
	120				60	220/380/440	1.60/0.93/0.88	
★ ACP-401A	125	5	1"	400	50	200/380/415	2.60/1.50/1.40	14.5
	170				60	220/380/440	2.70/1.60/1.50	
★ ACP-901A	190	6	1 1/2"	900	50	200/380/415	4.30/2.40/2.10	32.0
	230				60	220/380/440	5.20/3.00/2.60	

★ 표시가 되어있는 모델은 유용성 절삭유 사용이 가능함.(32cSt 이하) The model indicated ★ mark can use coolant with the oil. (below 32cSt)

● 적용 Applications

- 사용유체 Type of fluid : Water/Coolant, Cutting oil, Grinding oil
- 사용점도 Viscosity : 2~32cSt이하
- 사용온도 Temperature : 80℃이하

● 보호등급 (Enclosure class)

- IP44 : ACP-61A, 101A, 181A, 251A
- IP54 : 401A, 901A

● 절연계급 (Insulation class)

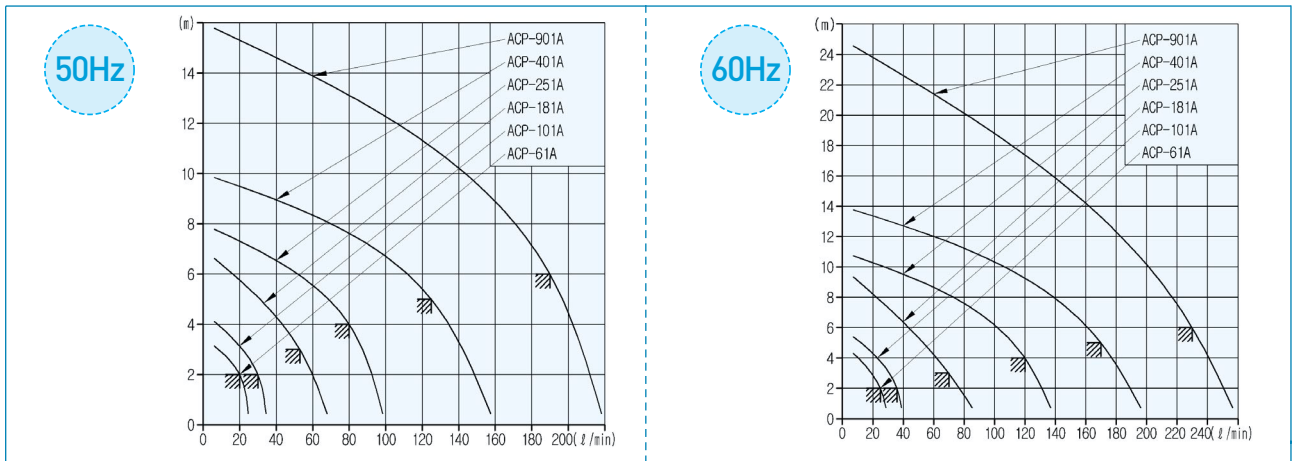
- E : ACP-61A, 101A, 181A, 251A
- F : ACP-401A, 901A

※ 상기 표에 있는 정격전압(220V/380V)은 표준 사양임. 그 외 전압에 따른 사양은 주문생산이 가능하므로 문의바랍니다.

※ Rated voltage in above table is standard specifications. Other voltage specifications can be manufactured by buyer's demands. Contact us first.

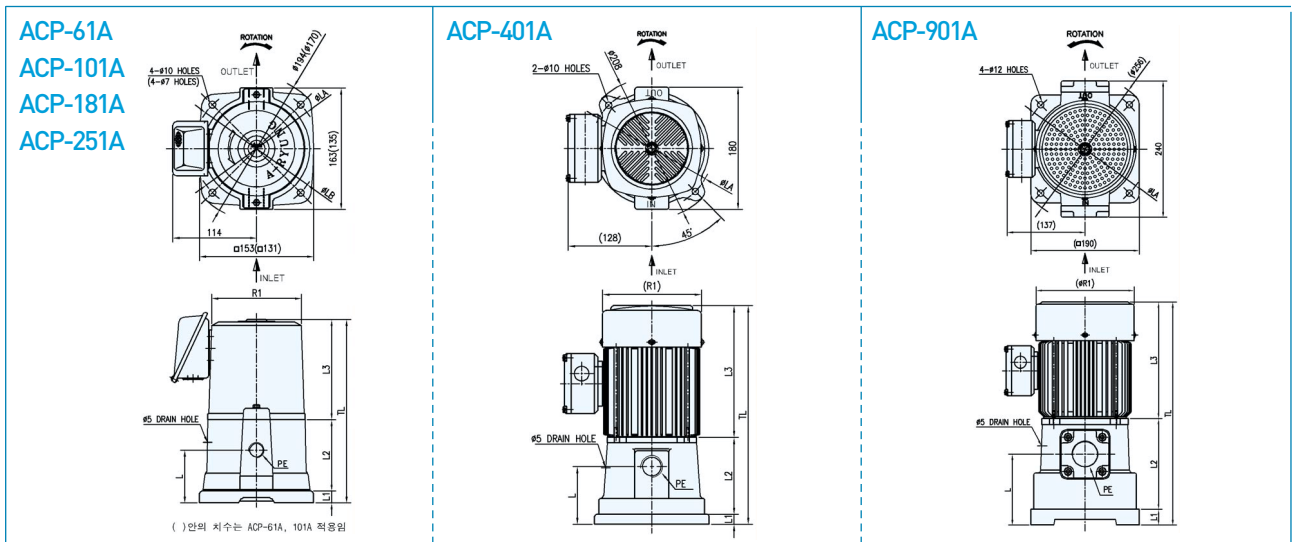
ACP-A Series

Performance range (Solubility in water)



※ 위 Data는 유온 20℃, 점도 2cSt에서 작성 되었다. (Above data is test in the viscosity 2cSt, oil temperature 20℃.)

External dimensions (외형도)



TYPE	L	L1	L2	L3	TL	R1	ØLA	ØLB	PE
ACP-61A	56	16	72	116	203	93	132(132)	130(150)	2-PS 3/8"
ACP-101A							132(132)	150(150)	
ACP-181A	71	16	96	135	247	120	160(167)	164(170)	2-PS 1/2"
ACP-251A							160(167)	170(170)	2-PS 3/4"
ACP-401A	85	15	113	194	322	145	180(180)	-	2-PS 1"
ACP-901A	125	28	160	205	393	Ø172	220(220)	-	2-PS 1 1/2"

※ About ØLA and ØLB in the above table, the value in the parenthesis is applied only to domestic (korea) use.
위 표의 ØLA, LB의 ()안의 치수는 국내사용 규격입니다.

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Multi-centrifugal pumps

◎ ACRK Series

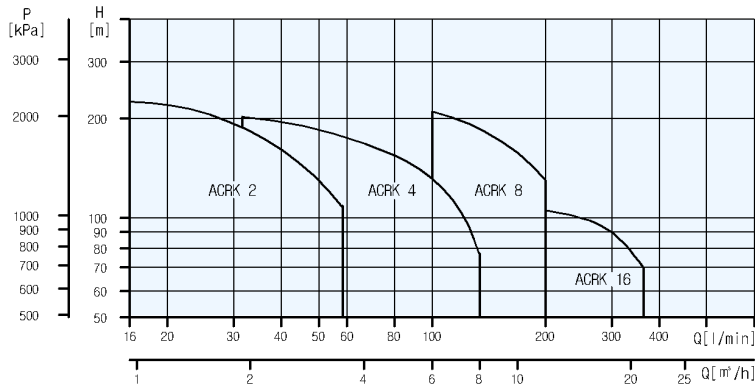


ACRK - 4 - 140 / 8

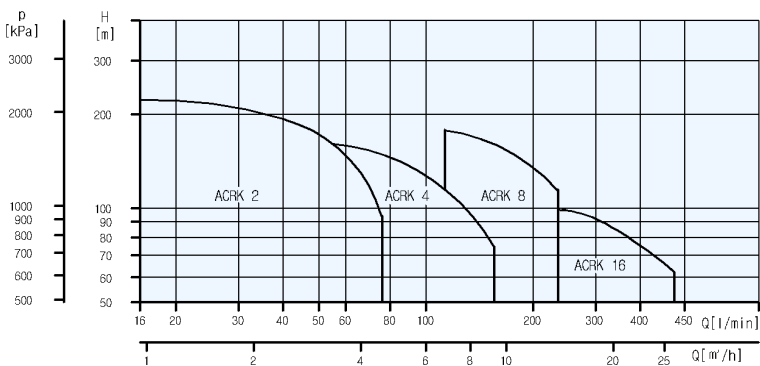


Performance range

50Hz



60Hz



1. A-RYUNG 표준Motor로 시험한 Data임.
2. 시험액 : 기포가 없는 유체온도 20℃ 청수
3. 점도(Viscosity) = 1mm²/s(1cSt)의 물 기준

The performance result is tested by A-RYUNG standard motor.
Testing liquid; clean water in temperature 20℃ without foam
Viscosity; water standard is 1mm²/s (1cSt)

- Enclosure class : IP54
보호등급
- Insulation class : F
절연계급

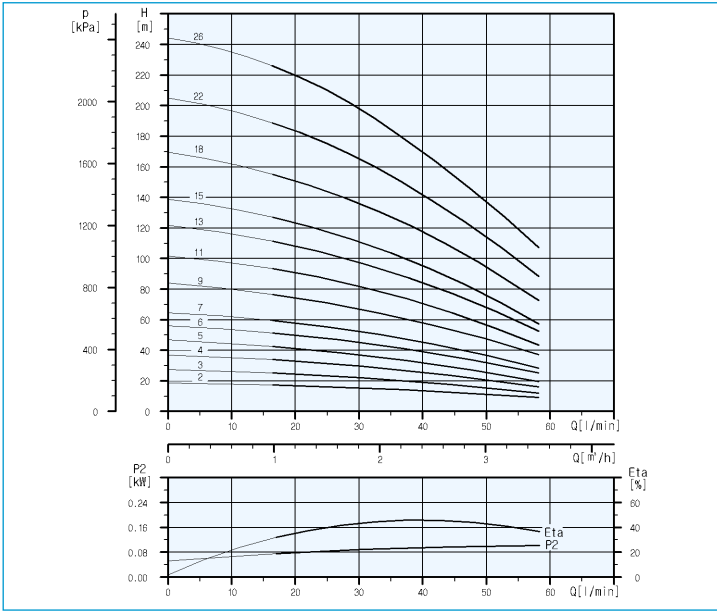
◎ Products range

Description		ACRK2	ACRK4	ACRK8	ACRK16
Range 50Hz	Normal volume(m ³ /h)	2	4	8	16
	Normal volume(l/min)	33.3	67	133	267
	Volume range(l/min)	16.7-58	33.3-133	100-200	133-367
	Max. pressure(bar)	24	21.8	22	11.8
	Motor output(kW)	0.37-3.0	0.37-4.0	0.75-7.5	1.1-7.5
	Temperature range(°C)	0-90	0-90	0-90	0-90
Range 60Hz	Normal volume(m ³ /h)	2	4	8	16
	Normal volume(l/min)	33.3	67	133	267
	Volume range(l/min)	16.7-75	43.3-150	117-242	167-433
	Max. pressure(bar)	24	17	19.5	10.6
	Motor output(kW)	0.37-4.0	0.75-4.0	0.75-7.5	1.5-7.5
	Temperature range(°C)	0-90	0-90	0-90	0-90
Material variants	Pump head	GC25	GC25	GC25	GC25
	Chamber	SUS304	SUS304	SUS304	SUS304
	Impeller	SUS304	SUS304	SUS304	SUS304
	Base	-	-	-	-
Pipe connection	In-let				
	Out-let	Ps 1 1/4"	Ps 1 1/4"	Ps 2"	Ps 2"
	Flange	-	-	-	-
Mechanical Seal	TC/Sic seal type	Ø12/Ø16	Ø12/Ø16	Ø16	Ø16

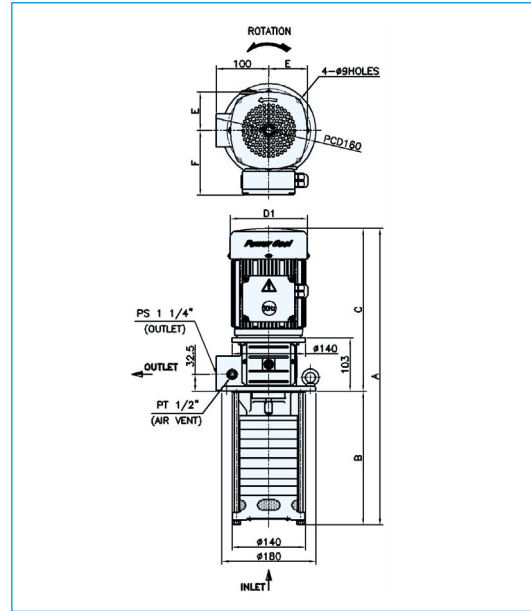
Multi-centrifugal pumps

◎ ACRK 2 [50Hz]

Performance range



External dimensions



Electrical data

■ 3Ø 200-230/380-415V

Pump type	Motor		Current (A)	Motor Efficiency (%)
	Frame No.	kW		
ACRK 2-20/2	F80	0.37	2.02-1.75 / 1.06-0.97	68
ACRK 2-30/3	F80	0.37	2.02-1.75 / 1.06-0.97	68
ACRK 2-40/4	F80S	0.55	2.50-2.18 / 1.32-1.21	73
ACRK 2-50/5	F80S	0.55	2.50-2.18 / 1.32-1.21	73
ACRK 2-60/6	F80M	0.75	3.62-3.15 / 1.91-1.74	74
ACRK 2-70/7	F80M	0.75	3.62-3.15 / 1.91-1.74	74
ACRK 2-90/9	F80L	1.10	4.48-3.90 / 2.36-2.16	80
ACRK 2-110/11	F80L	1.10	4.48-3.90 / 2.36-2.16	80
ACRK 2-130/13	F90	1.50	6.90-6.60 / 4.00-3.80	81
ACRK 2-150/15	F90	1.50	6.90-6.60 / 4.00-3.80	81
ACRK 2-180/18	F90S	2.20	10.0-9.60 / 5.80-5.60	86
ACRK 2-220/22	F90S	2.20	10.0-9.60 / 5.80-5.60	86
ACRK 2-260/26	F90M	3.00	11.0-10.3 / 6.40-6.00	85

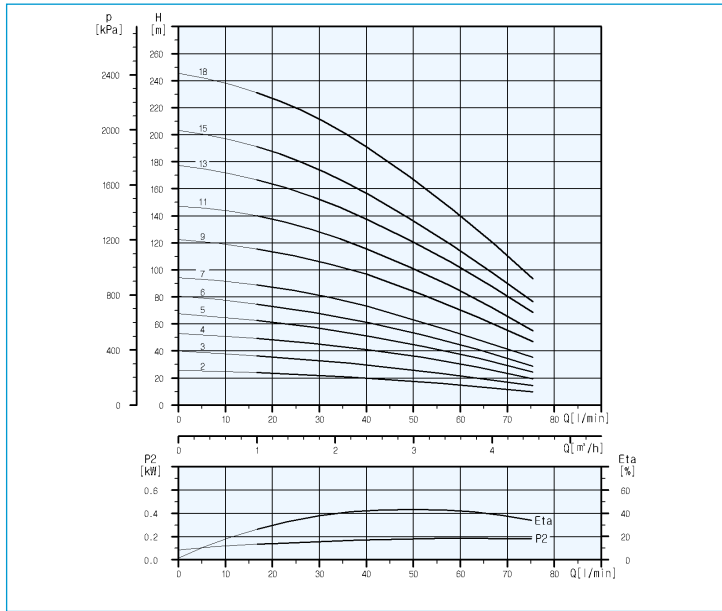
■ Dimensions

Dimensions(mm)						Net weight (kg)
A	B	C	D1	E	F	
475	160	315	148	74	123	12.7
493	178	315	148	74	123	13.2
526	196	330	148	74	123	13.8
544	214	330	148	74	123	14.1
577	232	345	148	74	123	15.2
595	250	345	148	74	123	15.5
656	286	370	148	74	123	17.6
692	322	370	148	74	123	18.2
716	358	358	183	91.5	148	26.9
752	394	358	183	91.5	148	27.5
823	448	375	183	91.5	148	30.5
895	520	375	183	91.5	148	31.6
982	592	390	183	91.5	148	38.2

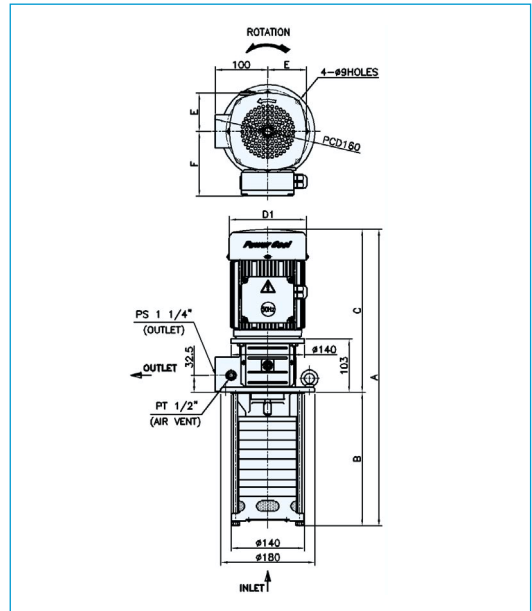
※ 최저효율제 시행 적용시 외형 치수가 변경될 수 있습니다. [External Dimension is subject to change according to Minimum Energy Efficiency policy.]

ACRK 2 [60Hz]

Performance range



External dimensions



Electrical data

3Ø 220-240/380-440V 60Hz

Pump type	Motor		Current (A)	Motor Efficiency (%)
	Frame No.	kW		
ACRK 2-20/2	F80	0.37	2.20-2.02 / 1.27-1.10	68
ACRK 2-30/3	F80S	0.55	2.73-2.50 / 1.58-1.37	73
ACRK 2-40/4	F80M	0.75	3.95-3.62 / 2.29-1.98	74
ACRK 2-50/5	F80L	1.10	4.89-4.48 / 2.83-2.45	80
ACRK 2-60/6	F80L	1.10	4.89-4.48 / 2.83-2.45	80
ACRK 2-70/7	F90	1.50	7.60-7.30 / 4.40-4.30	81
ACRK 2-90/9	F90S	2.20	11.0-10.5 / 6.40-6.10	86
ACRK 2-110/11	F90S	2.20	11.0-10.5 / 6.40-6.10	86
ACRK 2-130/13	F90M	3.00	12.5-11.7 / 7.30-6.70	85
ACRK 2-150/15	F90M	3.00	12.5-11.7 / 7.30-6.70	85
ACRK 2-180/18	F90L	4.00	18.0-17.0 / 10.4-9.80	85
ACRK 2-220/18	F90L	4.00	18.0-17.0 / 10.4-9.80	85
ACRK 2-260/18	F90L	4.00	18.0-17.0 / 10.4-9.80	85

Dimensions

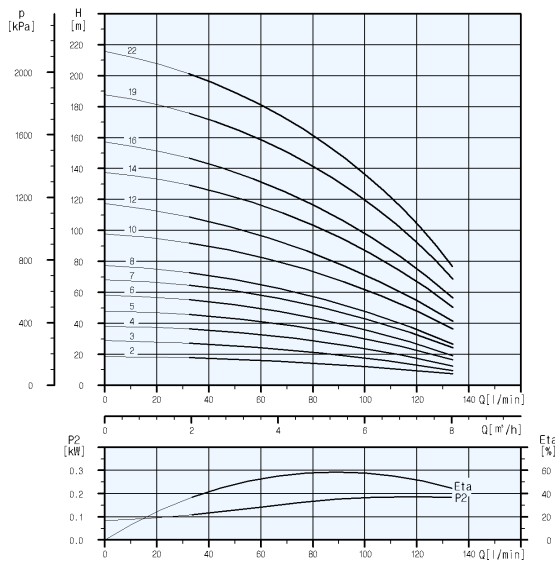
Dimensions(mm)						Net weight (kg)
A	B	C	D1	E	F	
475	160	315	148	74	123	12.7
508	178	330	148	74	123	13.5
541	196	345	148	74	123	14.6
584	214	370	148	74	123	16.3
602	232	370	148	74	123	16.7
608	250	358	183	91.5	148	24.9
661	286	375	183	91.5	148	29.4
697	322	375	183	91.5	148	30.1
748	358	390	183	91.5	148	34.5
784	394	390	183	91.5	148	35.2
853	448	405	183	91.5	148	37.3
925	520	405	183	91.5	148	37.7
997	592	405	183	91.5	148	38.1

※ 최저효율제 시행 적용시 외형 치수가 변경될 수 있습니다. [External Dimension is subject to change according to Minimum Energy Efficiency policy.]

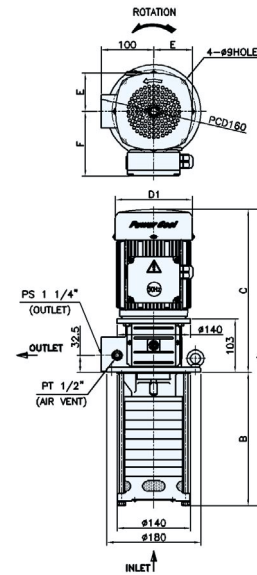
Multi-centrifugal pumps

◎ ACRK 4 [50Hz]

Performance range



External dimensions



Electrical data

■ 3Ø 200-230/380-415V 50Hz

Pump type	Motor		Current (A)	Motor Efficiency (%)
	Frame No.	(P2) kW		
ACRK 4-20/2	F80	0.37	2.02-1.75 / 1.06-0.97	68
ACRK 4-30/3	F80S	0.55	2.50-2.18 / 1.32-1.21	73
ACRK 4-40/4	F80M	0.75	3.62-3.15 / 1.91-1.74	74
ACRK 4-50/5	F80L	1.10	4.48-3.90 / 2.36-2.16	80
ACRK 4-60/6	F80L	1.10	4.48-3.90 / 2.36-2.16	80
ACRK 4-70/7	F90	1.50	6.90-6.60 / 4.00-3.80	81
ACRK 4-80/8	F90	1.50	6.90-6.60 / 4.00-3.80	81
ACRK 4-100/10	F90S	2.20	10.0-9.60 / 5.80-5.60	86
ACRK 4-120/12	F90S	2.20	10.0-9.60 / 5.80-5.60	86
ACRK 4-140/14	F90M	3.00	11.0-10.3 / 6.40-6.00	85
ACRK 4-160/16	F90M	3.00	11.0-10.3 / 6.40-6.00	85
ACRK 4-190/19	F90L	4.00	15.6-14.8 / 9.00-8.60	85
ACRK 4-220/22	F90L	4.00	15.6-14.8 / 9.00-8.60	85

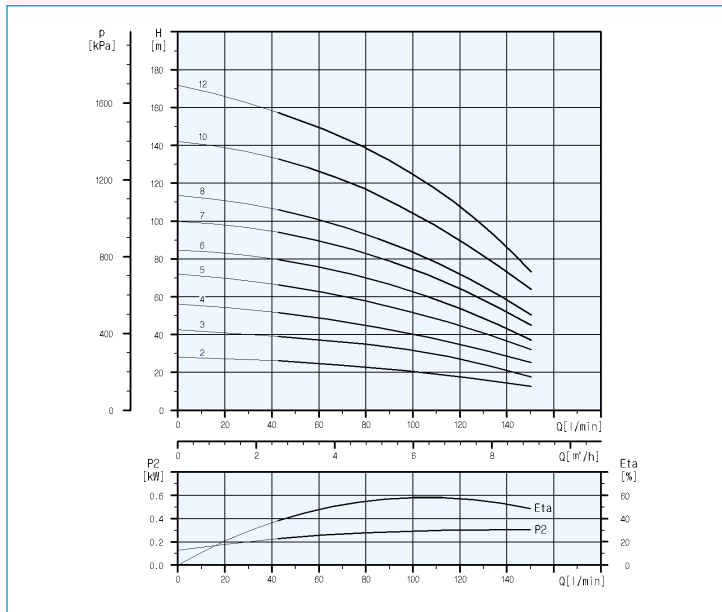
■ Dimensions

Dimensions(mm)						Net weight (kg)
A	B	C	D1	E	F	
502	187	315	148	74	123	12.6
544	214	330	148	74	123	13.5
586	241	345	148	74	123	14.8
638	268	370	148	74	123	16.6
665	295	370	148	74	123	17.1
680	322	358	183	91.5	148	26.8
707	349	358	183	91.5	148	27.2
778	403	375	183	91.5	148	30.5
832	457	375	183	91.5	148	31.3
901	511	390	183	91.5	148	36.0
955	565	390	183	91.5	148	36.9
1051	646	405	183	91.5	148	40.3
1132	727	405	183	91.5	148	41.4

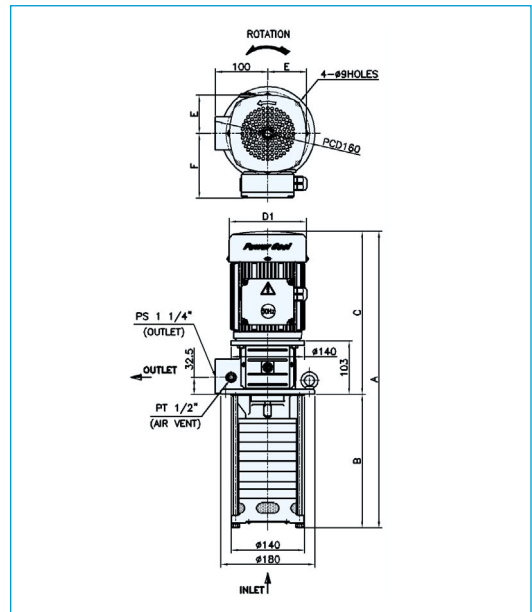
※ 최저효율제 시행 적용시 외형 치수가 변경될 수 있습니다. (External Dimension is subject to change according to Minimum Energy Efficiency policy.)

ACRK 4 [60Hz]

Performance range



External dimensions



Electrical data

3Ø 220-240/380-440V 60Hz

Pump type	Motor		Current (A)	Motor Efficiency (%)
	Frame No.	(P2) kW		
ACRK 4-20/2	F80M	0.75	3.95-3.62 / 2.29-1.98	74
ACRK 4-30/3	F80L	1.10	4.89-4.48 / 2.83-2.45	80
ACRK 4-40/4	F90	1.50	7.60-7.30 / 4.40-4.30	81
ACRK 4-50/5	F90S	2.20	11.0-10.5 / 6.40-6.10	86
ACRK 4-60/6	F90S	2.20	11.0-10.5 / 6.40-6.10	86
ACRK 4-70/7	F90M	3.00	12.5-11.7 / 7.30-6.70	85
ACRK 4-80/8	F90M	3.00	12.5-11.7 / 7.30-6.70	85
ACRK 4-100/10	F90L	4.00	18.0-17.0 / 10.4-9.80	85
ACRK 4-120/12	F90L	4.00	18.0-17.0 / 10.4-9.80	85
ACRK 4-140/12	F90L	4.00	18.0-17.0 / 10.4-9.80	85
ACRK 4-160/12	F90L	4.00	18.0-17.0 / 10.4-9.80	85
ACRK 4-190/12	F90L	4.00	18.0-17.0 / 10.4-9.80	85
ACRK 4-220/12	F90L	4.00	18.0-17.0 / 10.4-9.80	85

Dimensions

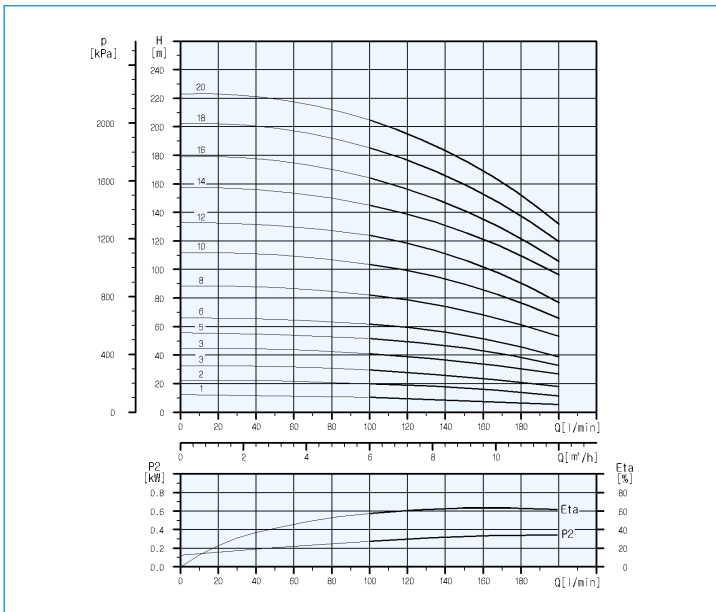
Dimensions(mm)						Net weight (kg)
A	B	C	D1	E	F	
532	187	345	148	74	123	14.0
584	214	370	148	74	123	15.8
599	241	358	183	91.5	148	25.6
643	268	375	183	91.5	148	28.5
670	295	375	183	91.5	148	29.0
712	322	390	183	91.5	148	33.2
739	349	390	183	91.5	148	33.6
808	403	405	183	91.5	148	37.9
862	457	405	183	91.5	148	38.7
916	511	405	183	91.5	148	39.1
970	565	405	183	91.5	148	39.4
1051	646	405	183	91.5	148	40.0
1132	727	405	183	91.5	148	40.4

※ 최저효율제 시행 적용시 외형 치수가 변경될 수 있습니다. [External Dimension is subject to change according to Minimum Energy Efficiency policy.]

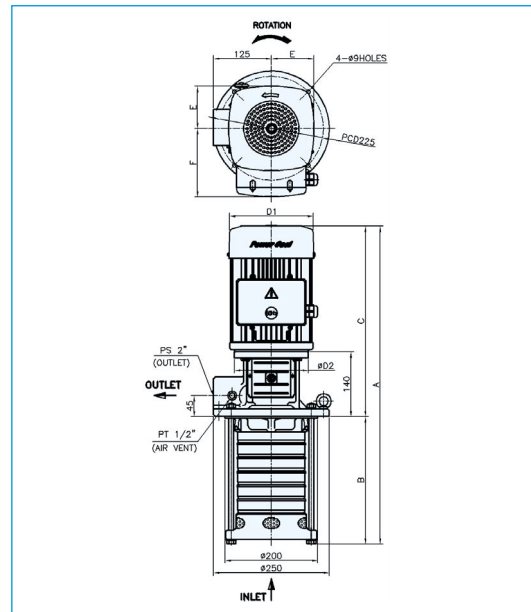
Multi-centrifugal pumps

◎ ACRK 8 [50Hz]

Performance range



External dimensions



Electrical data

■ 3Ø 200-230/380-415V 50Hz

Pump type	Motor		Current (A)	Motor Efficiency (%)
	Frame No.	(P2) kW		
ACRK 8-20/1	F80M	0.75	3.62-3.15 / 1.91-1.74	74
ACRK 8-20/2	F80M	0.75	3.62-3.15 / 1.91-1.74	74
ACRK 8-30/3	F80L	1.10	4.48-3.90 / 2.36-2.16	80
ACRK 8-40/4	F90	1.50	6.90-6.60 / 4.00-3.80	81
ACRK 8-50/5	F90S	2.20	10.0-9.60 / 5.80-5.60	86
ACRK 8-60/6	F90S	2.20	10.0-9.60 / 5.80-5.60	86
ACRK 8-80/8	F90M	3.00	11.0-10.3 / 6.40-6.00	85
ACRK 8-100/10	F90L	4.00	15.6-14.8 / 9.00-8.60	85
ACRK 8-120/12	F90L	4.00	15.6-14.8 / 9.00-8.60	85
ACRK 8-140/14	F132S	5.50	17.5-16.5 / 10.1-9.50	86
ACRK 8-160/16	F132S	5.50	17.5-16.5 / 10.1-9.50	86
ACRK 8-180/18	F132M	7.50	22.46-19.53 / 11.82-10.82	86
ACRK 8-200/20	F132M	7.50	22.46-19.53 / 11.82-10.82	86

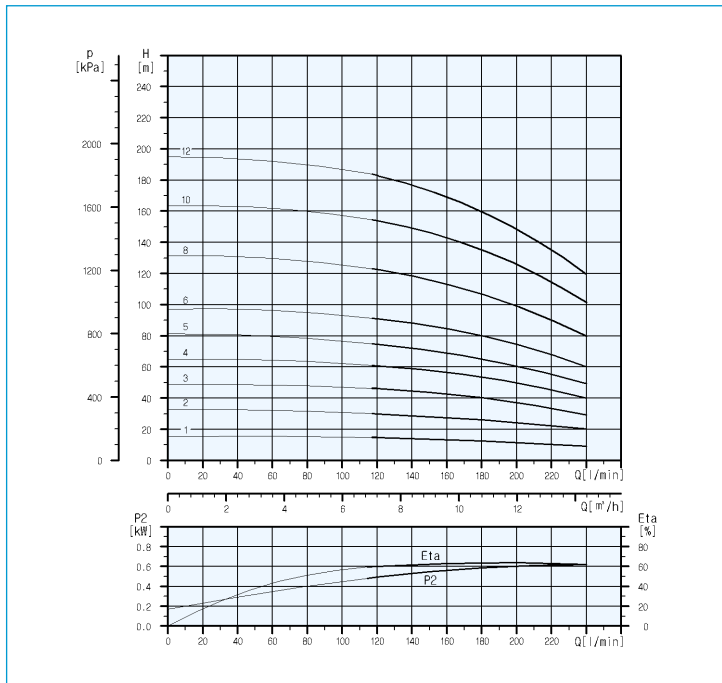
■ Dimensions

Dimensions(mm)							Net weight (kg)
A	B	C	D1	D2	E	F	
532	150	382	148	160	74	123	23.0
532	150	382	148	160	74	123	23.0
587	180	407	148	160	74	123	25.0
605	210	395	183	160	91.5	148	32.0
652	240	412	183	160	91.5	148	36.0
682	270	412	183	160	91.5	148	37.0
757	330	427	183	160	91.5	148	41.0
832	390	442	183	160	91.5	148	44.0
892	450	442	183	160	91.5	148	45.0
1008	510	498	248	300	124	185	70.0
1068	570	498	248	300	124	185	72.0
1158	630	528	248	300	124	185	77.0
1218	690	528	248	300	124	185	78.0

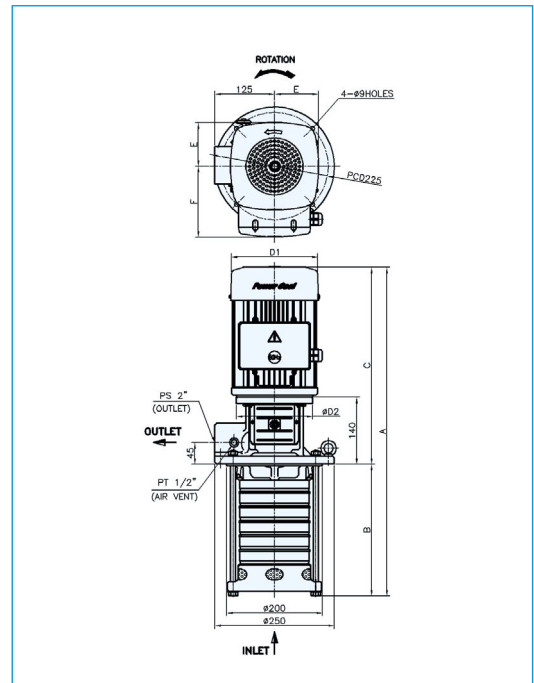
※ 최저효율제 시행 적용시 외형 치수가 변경될 수 있습니다. [External Dimension is subject to change according to Minimum Energy Efficiency policy.]

ACRK 8 [60Hz]

Performance range



External dimensions



Electrical data

3Ø 220-240/380-440V 60Hz

Pump type	Motor		Current (A)	Motor Efficiency (%)
	Frame No.	(P2) kW		
ACRK 8-20/1	F80M	0.75	3.95-3.62 / 2.29-1.98	74
ACRK 8-20/2	F90	1.50	7.60-7.30 / 4.40-4.30	81
ACRK 8-30/3	F90S	2.20	11.0-10.5 / 6.40-6.10	86
ACRK 8-40/4	F90M	3.00	12.5-11.7 / 7.30-6.70	85
ACRK 8-50/5	F90M	3.00	12.5-11.7 / 7.30-6.70	85
ACRK 8-60/6	F90L	4.00	18.0-17.0 / 10.4-9.80	85
ACRK 8-80/8	F132S	5.50	25.0-23.0 / 14.4-13.0	86
ACRK 8-100/10	F132M	7.50	24.50-22.47 / 14.18-12.25	86
ACRK 8-120/12	F132M	7.50	24.50-22.47 / 14.18-12.25	86

Dimensions

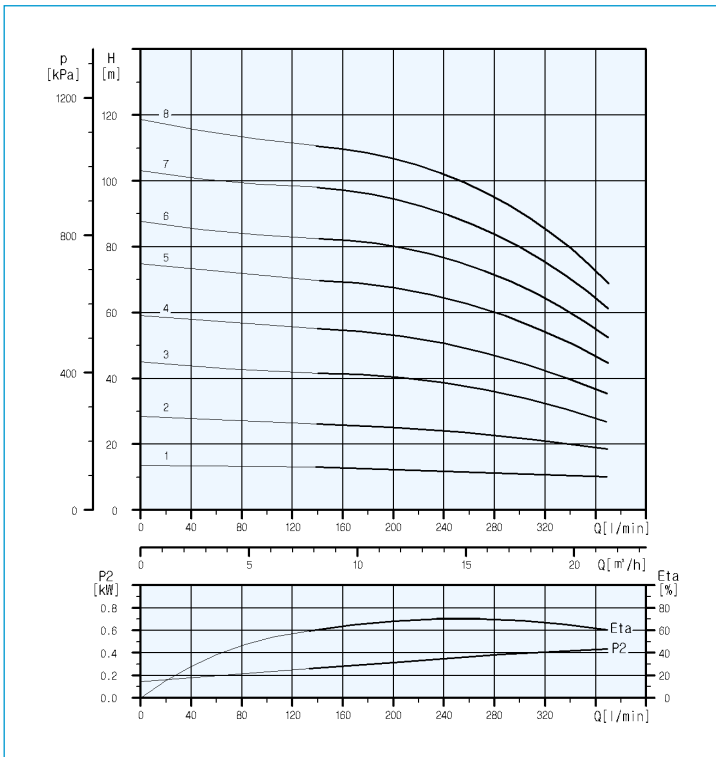
Dimensions(mm)							Net weight (kg)
A	B	C	D1	D2	E	F	
532	150	380	148	160	74	123	29
545	150	395	183	160	91.5	148	32
592	180	412	183	160	91.5	148	35
637	210	427	183	160	91.5	148	39
667	240	427	183	160	91.5	148	40
712	270	442	183	160	91.5	148	41
828	330	498	248	300	124	185	66
918	390	528	248	300	124	185	72
978	450	528	248	300	124	185	74

※ 최저효율제 시행 적용시 외형 치수가 변경될 수 있습니다. [External Dimension is subject to change according to Minimum Energy Efficiency policy.]

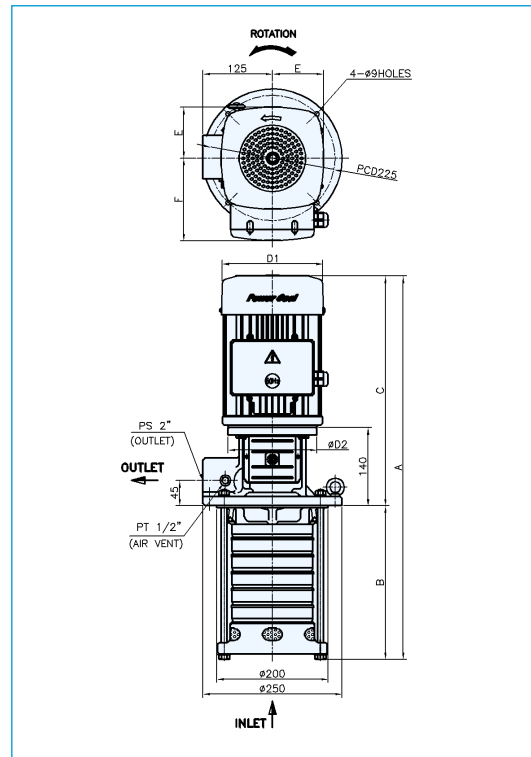
Multi-centrifugal pumps

◎ ACRK 16 [50Hz]

Performance range



External dimensions



Electrical data

■ 3Ø 200-230/380-415V 50Hz

Pump type	Motor		Current (A)	Motor Efficiency (%)
	Frame No.	(P2) kW		
ACRK 16-20/1	F80L	1.10	4.48-3.90 / 2.36-2.16	80
ACRK 16-20/2	F90S	2.20	10.0-9.60 / 5.80-5.60	86
ACRK 16-30/3	F90M	3.00	11.0-10.3 / 6.40-6.00	85
ACRK 16-40/4	F90L	4.00	15.6-14.8 / 9.00-8.60	85
ACRK 16-50/5	F132S	5.50	17.5-16.5 / 10.1-9.50	86
ACRK 16-60/6	F132S	5.50	17.5-16.5 / 10.1-9.50	86
ACRK 16-70/7	F132M	7.50	22.46-19.53 / 11.82-10.82	86
ACRK 16-80/8	F132M	7.50	22.46-19.53 / 11.82-10.82	86

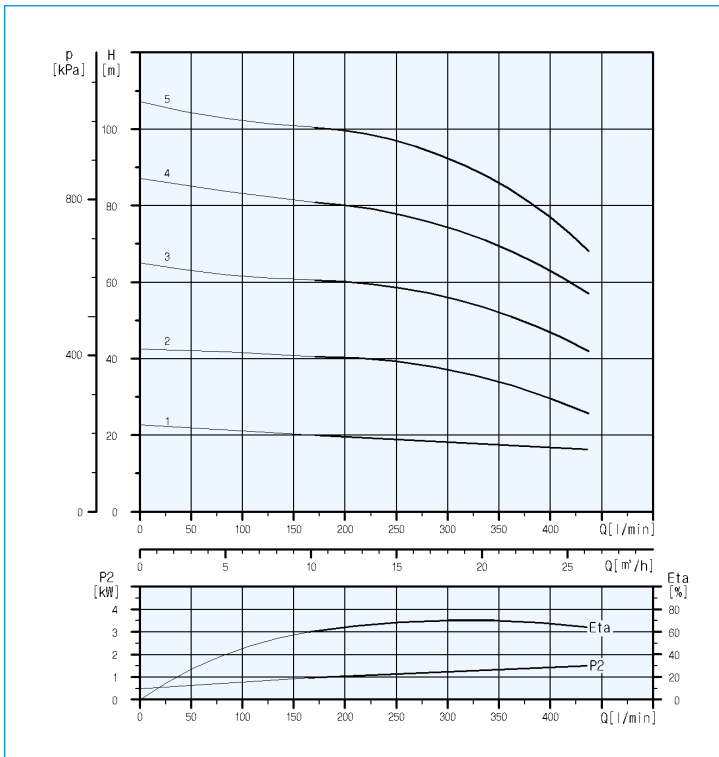
■ Dimensions

Dimensions(mm)							Net weight (kg)
A	B	C	D1	D2	E	F	
588	181	407	148	160	74	123	32
593	181	412	183	160	91.5	148	35
653	226	427	183	160	91.5	148	39
713	271	442	183	160	91.5	148	41
814	316	498	248	300	124	185	65
859	361	498	248	300	124	185	66
934	406	528	248	300	124	185	73
979	451	528	248	300	124	185	74

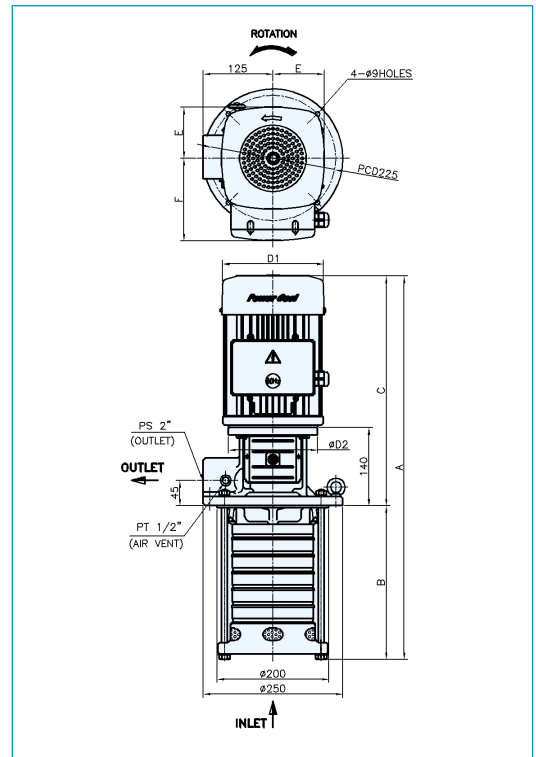
※ 최저효율제 시행 적용시 외형 치수가 변경될 수 있습니다. (External Dimension is subject to change according to Minimum Energy Efficiency policy.)

ACRK 16 [60Hz]

Performance range



External dimensions



Electrical data

3∅ 220-240/380-440V 60Hz

Pump type	Motor		Current (A)	Motor Efficiency (%)
	Frame No.	(P2) kW		
ACRK 16-20/1	F90	1.5	7.60-7.30 / 4.40-4.30	81
ACRK 16-20/2	F90M	3.0	12.5-11.7 / 7.30-6.70	85
ACRK 16-30/3	F132S	5.5	25.0-23.0 / 14.4-13.0	86
ACRK 16-40/4	F132M	7.5	24.50-22.47 / 14.18-12.25	86
ACRK 16-50/5	F132M	7.5	24.50-22.47 / 14.18-12.25	86

Dimensions

Dimensions(mm)							Net weight (kg)
A	B	C	D1	D2	E	F	
576	181	395	183	160	91.5	148	42
608	181	427	183	160	91.5	148	46
724	226	498	248	300	124	185	64
799	271	528	248	300	124	185	69
844	316	528	248	300	124	185	70

※ 최저효율제 시행 적용시 외형 치수가 변경될 수 있습니다. [External Dimension is subject to change according to Minimum Energy Efficiency policy.]

Multi-centrifugal pumps

◎ ACHK Series

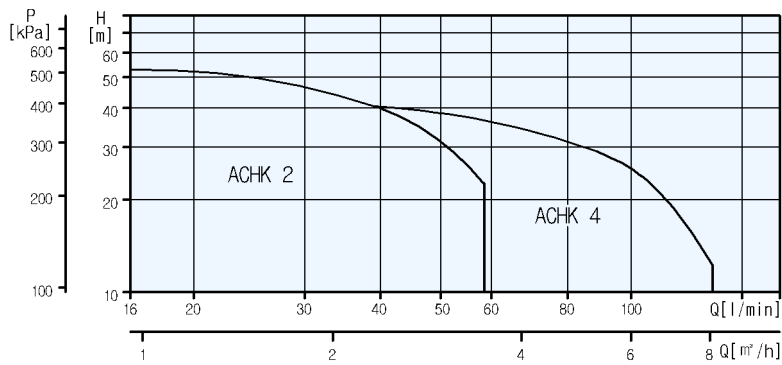


ACHK - 4 - 50 / 3

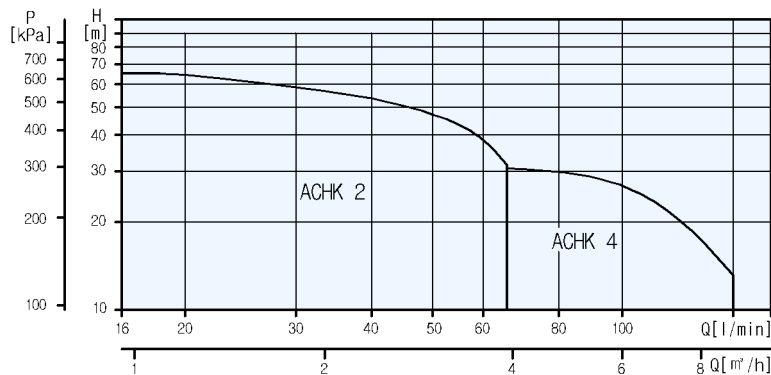
- Pump type — 펌프형식
- Normal volums(m³/h) — 표준유량
- Stage of pump × 10 — 챔버단수
- Impeller stage — 임펠러 단수

Performance range

50Hz



60Hz



1. A-RYUNG 표준Motor로 시험한 Data임.
2. 시험액 : 기포가 없는 유체온도 20°C 청수
3. 점도(Viscosity) = 1mm²/s(1cSt)의 물 기준

The performance result is tested by A-RYUNG standard motor.
 Testing liquid: clean water in temperature 20°C without foam
 Viscosity; water standard is 1mm²/s (1cSt)

- Enclosure class : IP54
보호등급
- Insulation class : F
절연계급

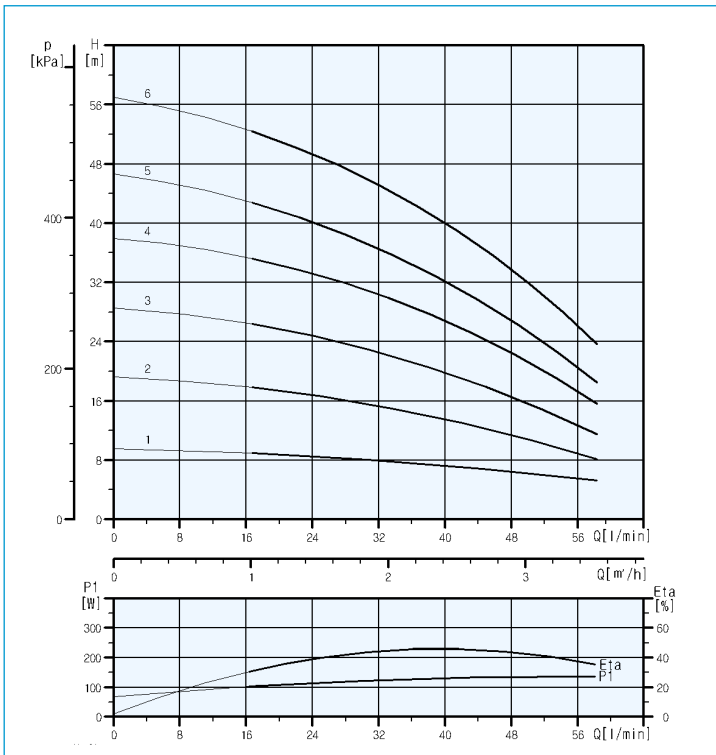
◎ Products range

Description		ACHK2	ACHK4
Range 50Hz	Normal volume(m ³ /h)	2	4
	Normal volume(l/min)	33.3	67
	Volume range(l/min)	16-58.3	33.3-133
	Max. pressure(bar)	5.6	4.6
	Motor output(kW)	0.37-1.1	0.37-1.1
	Temperature range(°C)	-10-90	-10-90
Range 60Hz	Normal volume(m ³ /h)	2	4
	Normal volume(l/min)	33.3	67
	Volume range(l/min)	25-67	43.3-150
	Max. pressure((bar)	6.8	4.0
	Motor output(kW)	0.37-1.1	0.55-1.1
	Temperature range(°C)	-10-90	-10-90
Material variants	Pump head	GC25	GC25
	Chamber	SUS304	SUS304
	Impeller	SUS304	SUS304
	Base	-	-
Pipe connection	In-let	-	-
	Out-let	Ps 3/4"	Ps 3/4"
	Flange	-	-
Mechanical Seal	Carbon/Sic seal type	Ø16	Ø16

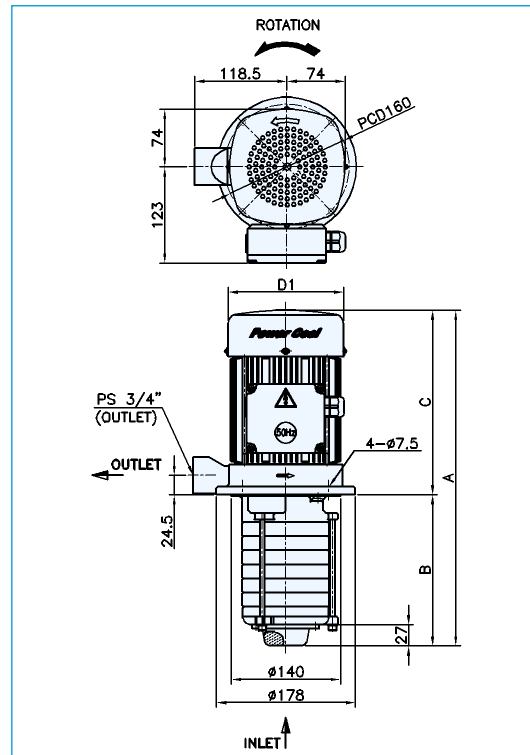
Multi-centrifugal pumps

ACHK 2 [50Hz]

Performance range



External dimensions



Electrical data

3Ø 200-230/380-415V 50Hz

Pump type	Motor		Current (A)	Motor Efficiency (%)
	Frame No.	(P2) kW		
ACHK 2-30/1	F80	0.37	2.02-1.75 / 1.06-0.97	68
ACHK 2-30/2	F80	0.37	2.02-1.75 / 1.06-0.97	68
ACHK 2-30/3	F80s	0.55	2.50-2.18 / 1.32-1.21	73
ACHK 2-40/4	F80S	0.55	2.50-2.18 / 1.32-1.21	73
ACHK 2-50/5	F80M	0.75	3.62-3.15 / 1.91-1.74	74
ACHK 2-60/6	F80L	1.1	4.48-3.90 / 2.36-2.16	80
ACHK 2-90/6	F80L	1.1	4.48-3.90 / 2.36-2.16	80
ACHK 2-100/6	F80L	1.1	4.48-3.90 / 2.36-2.16	80
ACHK 2-110/6	F80L	1.1	4.48-3.90 / 2.36-2.16	80

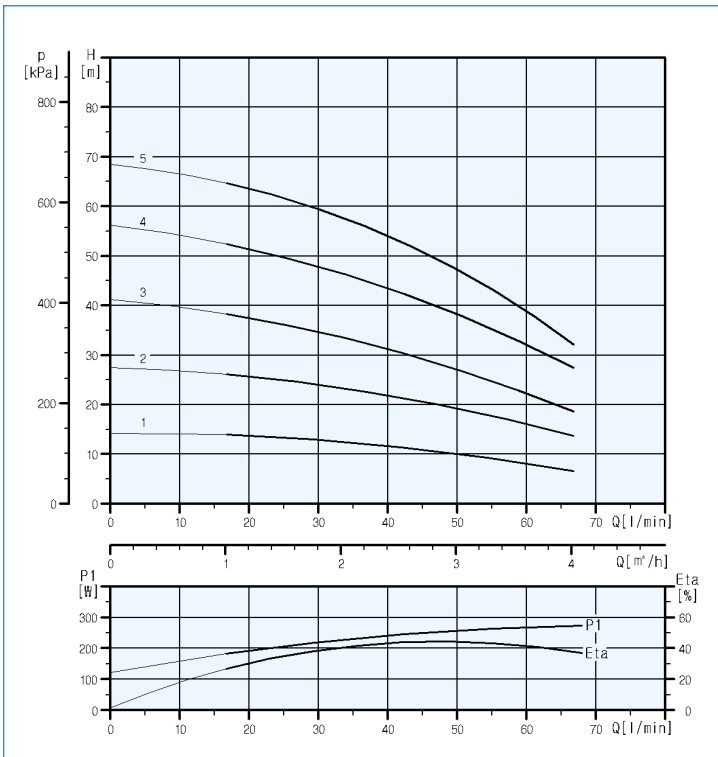
Dimensions

Dimensions(mm)				Net weight (kg)
A	B	C	D1	
373	140	233	148	10.7
373	140	233	148	10.8
388	140	248	148	11.1
406	158	248	148	16.18
439	176	263	148	11.8
482	194	288	148	18.10
536	248	288	148	15.1
554	266	288	148	15.5
572	284	288	148	15.6

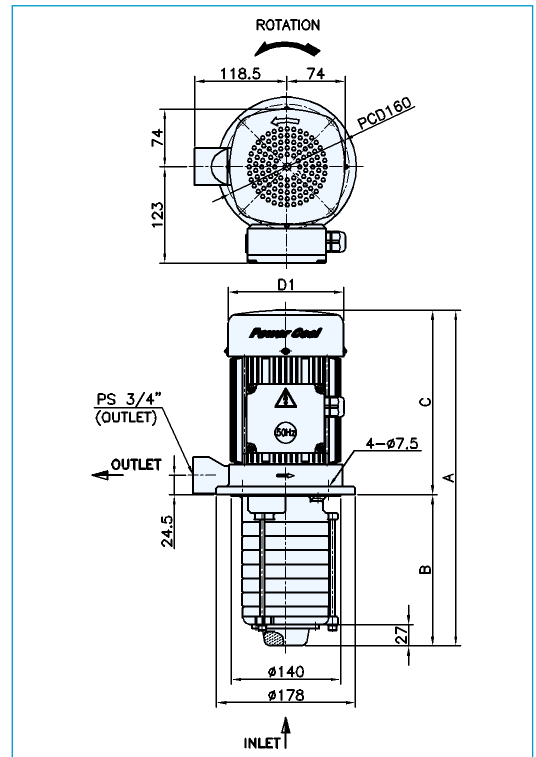
※ 최저효율제 시행 적용시 외형 치수가 변경될 수 있습니다. [External Dimension is subject to change according to Minimum Energy Efficiency policy.]

ACHK 2 [60Hz]

Performance range



External dimensions



Electrical data

■ 3Ø 220-240/380-440V 60Hz

Pump type	Motor		Current (A)	Motor Efficiency (%)
	Frame No.	(P2) kW		
ACHK 2-30/1	F80	0.37	2.20-2.02 / 1.27-1.10	68
ACHK 2-30/2	F80S	0.55	2.73-2.50 / 1.58-1.37	73
ACHK 2-30/3	F80M	0.75	3.95-3.62 / 2.29-1.98	74
ACHK 2-40/4	F80L	1.1	4.89-4.48 / 2.83-2.45	80
ACHK 2-50/5	F80L	1.1	4.89-4.48 / 2.83-2.45	80
ACHK 2-60/5	F80L	1.1	4.89-4.48 / 2.83-2.45	80
ACHK 2-90/5	F80L	1.1	4.89-4.48 / 2.83-2.45	80
ACHK 2-100/5	F80L	1.1	4.89-4.48 / 2.83-2.45	80
ACHK 2-110/5	F80L	1.1	4.89-4.48 / 2.83-2.45	80

■ Dimensions

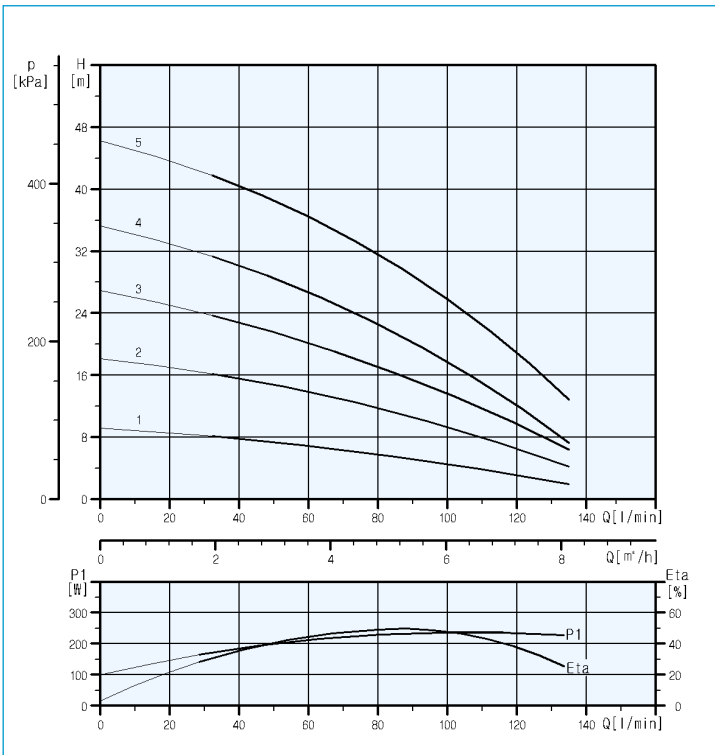
Dimensions(mm)				Net weight (kg)
A	B	C	D1	
373	140	233	148	10.9
388	140	248	148	11.0
403	140	263	148	11.1
446	158	288	148	12.5
464	176	286	148	12.8
482	194	288	148	14.6
536	248	288	148	15.1
554	266	288	148	15.4
572	284	288	148	15.6

※ 최저효율제 시행 적용시 외형 치수가 변경될 수 있습니다. [External Dimension is subject to change according to Minimum Energy Efficiency policy.]

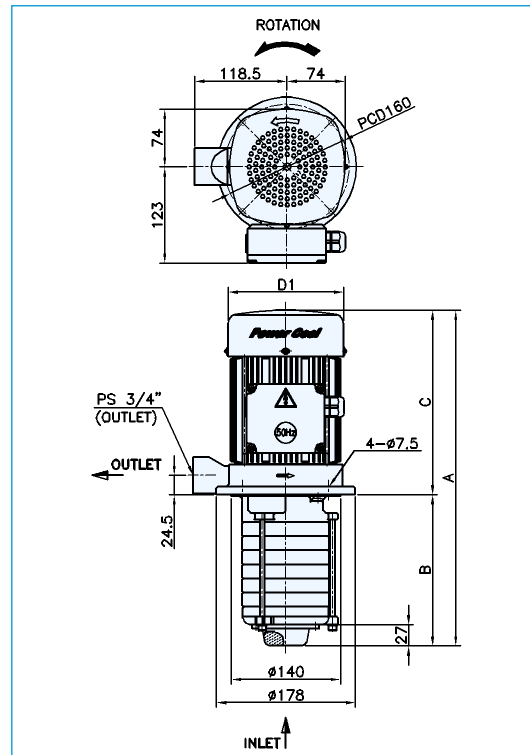
Multi-centrifugal pumps

ACHK 4 [50Hz]

Performance range



External dimensions



Electrical data

■ 3Ø 200-230/380-415V 50Hz

Pump type	Motor		Current [A]	Motor Efficiency [%]
	Frame No.	[P2] kW		
ACHK 4-20/1	F80	0.37	2.02-1.75 / 1.06-0.97	68
ACHK 4-20/2	F80S	0.55	2.50-2.18 / 1.32-1.21	73
ACHK 4-30/3	F80M	0.75	3.62-3.15 / 1.91-1.74	74
ACHK 4-40/4	F80L	1.10	4.48-3.90 / 2.36-2.16	80
ACHK 4-50/5	F80L	1.10	4.48-3.90 / 2.36-2.16	80
ACHK 4-60/5	F80L	1.10	4.48-3.90 / 2.36-2.16	80
ACHK 4-70/5	F80L	1.10	4.48-3.90 / 2.36-2.16	80
ACHK 4-80/5	F80L	1.10	4.48-3.90 / 2.36-2.16	80

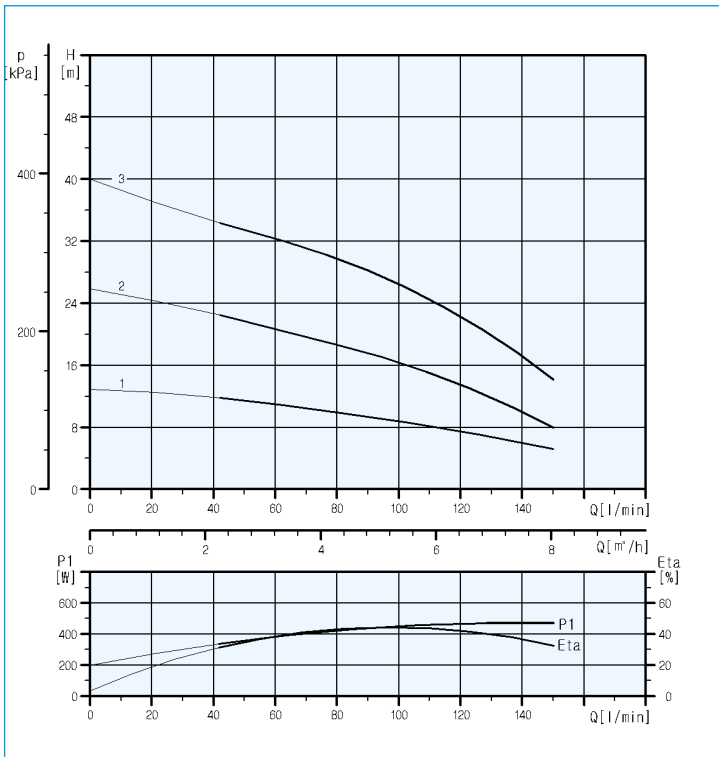
■ Dimensions

Dimensions(mm)				Net weight (kg)
A	B	C	D1	
373	140	233	148	10.6
388	140	248	148	10.7
430	167	263	148	11.4
482	194	288	148	13.0
509	221	288	148	14.7
536	248	288	148	15.3
563	275	288	148	16.4
590	302	288	148	16.7

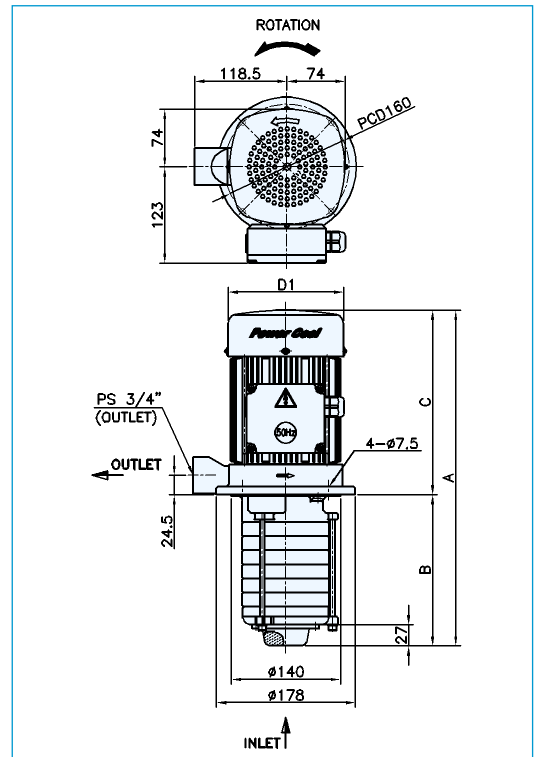
※ 최저효율제 시행 적용시 외형 치수가 변경될 수 있습니다. [External Dimension is subject to change according to Minimum Energy Efficiency policy.]

ACHK 4 [60Hz]

Performance range



External dimensions



Electrical data

3Ø 220-240/380-440V 60Hz

Pump type	Motor		Current (A)	Motor Efficiency (%)
	Frame No.	(P2) kW		
ACHK 4-20/1	F80S	0.55	2.73-2.50 / 1.58-1.37	73
ACHK 4-20/2	F80L	1.10	4.89-4.48 / 2.83-2.45	80
ACHK 4-30/3	F80L	1.10	4.89-4.48 / 2.83-2.45	80
ACHK 4-40/3	F80L	1.10	4.89-4.48 / 2.83-2.45	80
ACHK 4-50/3	F80L	1.10	4.89-4.48 / 2.83-2.45	80
ACHK 4-60/3	F80L	1.10	4.89-4.48 / 2.83-2.45	80
ACHK 4-70/3	F80L	1.10	4.89-4.48 / 2.83-2.45	80
ACHK 4-80/3	F80L	1.10	4.89-4.48 / 2.83-2.45	80

Dimensions

Dimensions(mm)				Net weight (kg)
A	B	C	D1	
388	140	248	148	10.8
428	140	288	148	10.9
455	167	288	148	12.4
482	194	288	148	14.3
509	221	288	148	14.6
536	248	288	148	15.1
563	275	288	148	16.4
590	302	288	148	16.8

※ 최저효율제 시행 적용시 외형 치수가 변경될 수 있습니다. [External Dimension is subject to change according to Minimum Energy Efficiency policy.]

Multi-centrifugal pumps

◎ ASPK Series



ASPK - 2 - 14 / 8

Pump type
펌프형식

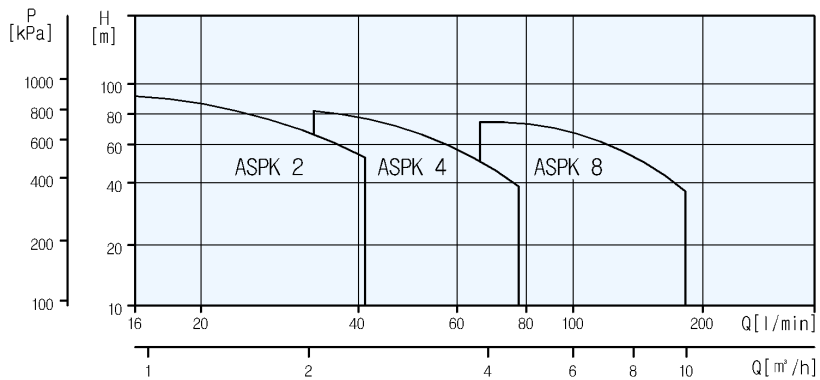
Normal volums(m³/h)
표준유량

Stage of pump × 10
챔버단수

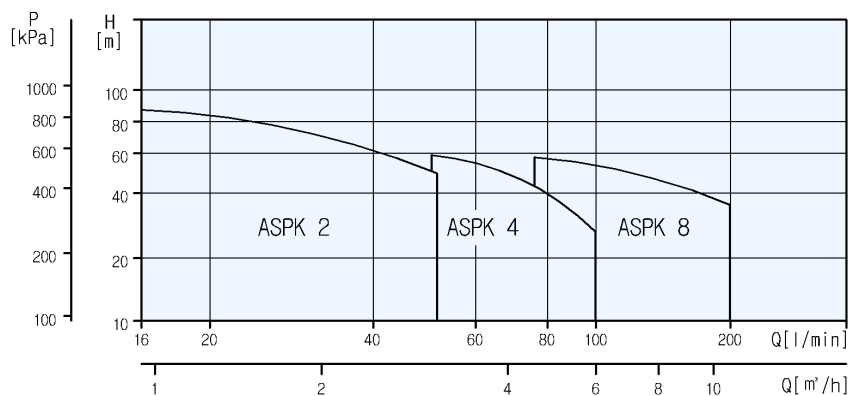
Impeller stage
임펠러 단수

Performance range

50Hz



60Hz



1. A-RYUNG 표준Motor로 시험한 Data임.
2. 시험액 : 기포가 없는 유체온도 20℃ 청수
3. 점도(Viscosity) = 1mm²/s(1cSt)의 물 기준

The performance result is tested by A-RYUNG standard motor.
Testing liquid: clean water in temperature 20℃ without foam
Viscosity; water standard is 1mm²/s (1cSt)

- Enclosure class : IP54
보호등급
- Insulation class : F
절연등급

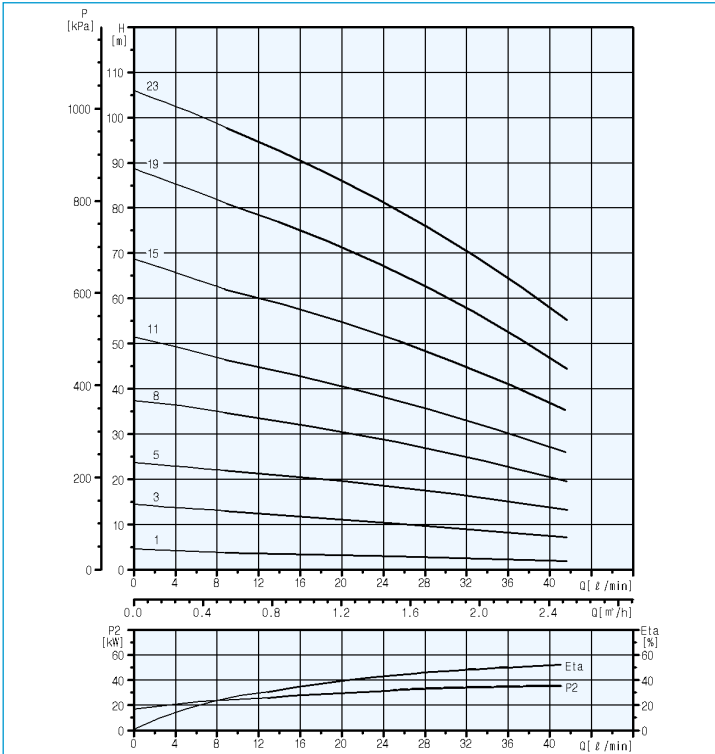
◎ Products range

Description		ASPK-2	ASPK-4	ASPK-8
Range 50Hz	Normal volume(mi/h)	2	4	8
	Normal volume(l/min)	33.3	67	133
	Volume range(l/min)	16-58	33.3-133	100-200
	Max. pressure(bar)	24	21.8	22
	Motor output(kW)	0.37-0.75	0.37-1.1	0.37-2.2
	Temperature range(°C)	0-90	0-90	0-90
Range 60Hz	Normal volume(mi/h)	2	4	6
	Normal volume(l/min)	33.3	67	133
	Volume range(l/min)	16.7-75	43.3-150	117-242
	Max. pressure(bar)	24	17	19.5
	Motor output(kW)	0.37-1.1	0.37-1.1	0.37-2.2
	Temperature range(°C)	0-90	0-90	0.90
Material variants	Pump head	GC25	GC25	GC25
	Chamber	SUS304	SUS304	SUS304
	Impeller	SUS304	SUS304	SUS304
	Base	-	-	-
Pipe connection	In-let	-	-	-
	Out-let	Ps 3/4"	Ps 3/4"	Ps 1 1/4"
	Flange	-	-	-
Mechanical Seal	TC/Sic seal type	Ø12	Ø12	Ø12

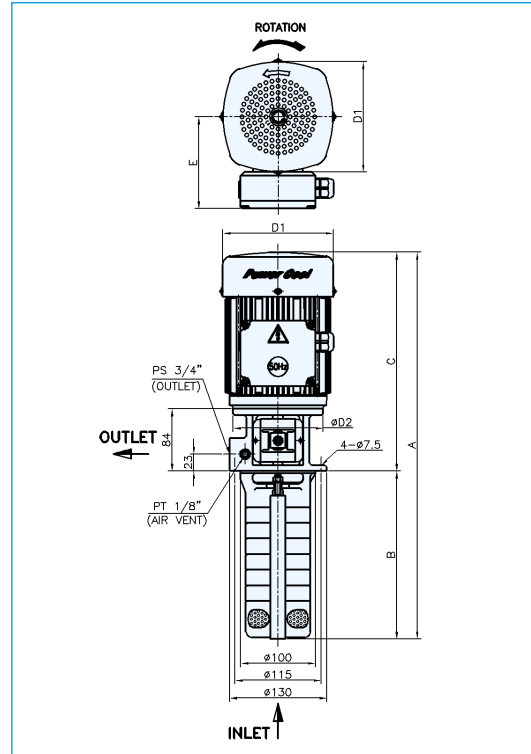
Multi-centrifugal pumps

◎ ASPK 2 [50Hz]

Performance range



External dimensions



Electrical data

■ 3Ø 200-230/380-415V 50Hz

Pump type	Motor		Current (A)	Motor Efficiency (%)
	Frame No.	(P2) kW		
ASPK 2-1/1	F80	0.37	1.56-2.00/1.01-1.27	68
ASPK 2-3/3	F80	0.37	1.56-2.00/1.01-1.27	68
ASPK 2-5/5	F80	0.37	1.56-2.00/1.01-1.27	68
ASPK 2-8/8	F80	0.37	1.56-2.00/1.01-1.27	68
ASPK 2-11/11	F80	0.37	1.56-2.00/1.01-1.27	68
ASPK 2-15/15	F80S	0.55	2.46-2.79/1.39-1.63	73
ASPK 2-19/19	F80M	0.75	3.07-3.19/1.84-1.90	74
ASPK 2-23/23	F80M	0.75	3.07-3.19/1.84-1.90	74

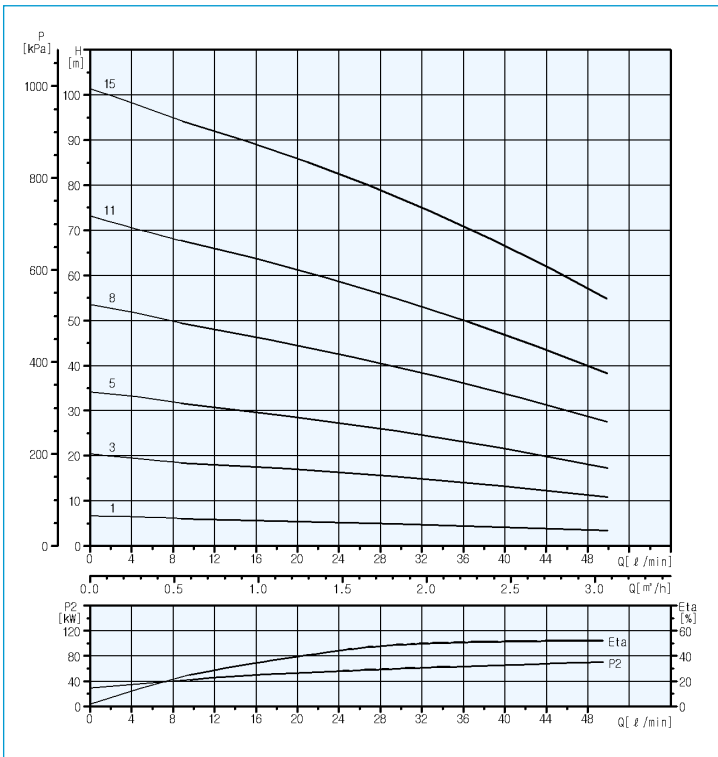
■ Dimensions

Dimensions(mm)						Net weight (kg)
A	B	C	D1	D2	E	
437	141	296	148	120	123	13.6
479	183	296	148	120	123	13.8
521	225	296	148	120	123	14.0
584	288	296	148	120	123	14.3
647	351	296	148	120	123	14.7
746	435	311	148	120	123	17.2
845	519	326	148	120	123	18.9
929	603	326	148	120	123	19.5

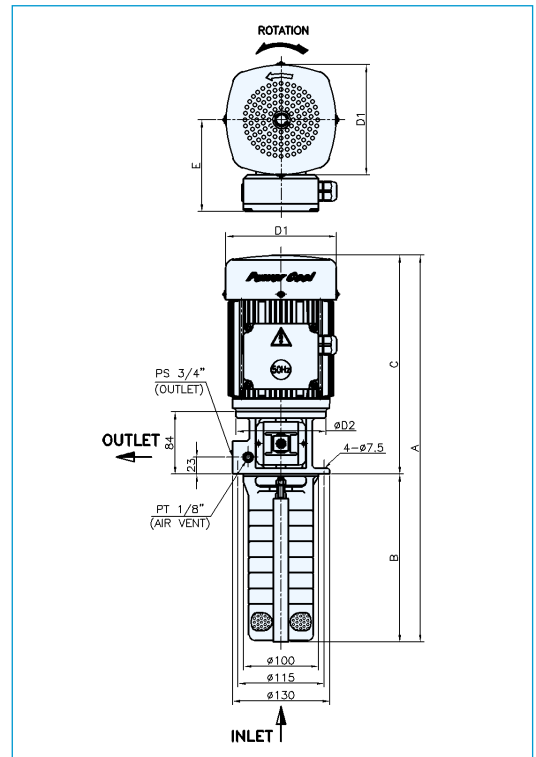
※ 최저효율제 시행 적용시 외형 치수가 변경될 수 있습니다. (External Dimension is subject to change according to Minimum Energy Efficiency policy.)

ASPK 2 [60Hz]

Performance range



External dimensions



Electrical data

■ 3Ø 220-240/380-440V 60Hz

Pump type	Motor		Current (A)	Motor Efficiency (%)
	Frame No.	(P2) kW		
ASPK 2-1/1	F80	0.37	2.02-2.02/0.27-1.10	68
ASPK 2-3/3	F80	0.37	2.02-2.02/0.27-1.10	68
ASPK 2-5/5	F80	0.37	2.02-2.02/0.27-1.10	68
ASPK 2-8/8	F80S	0.55	2.73-2.50/1.58-1.37	68
ASPK 2-11/11	F80M	0.75	3.95-3.62/2.29-1.98	68
ASPK 2-15/15	F80L	1.10	4.89-4.48/2.83-2.45	73
ASPK 2-19/15	F80L	1.10	4.89-4.48/2.83-2.45	74
ASPK 2-23/15	F80L	1.10	4.89-4.48/2.83-2.45	74

■ Dimensions

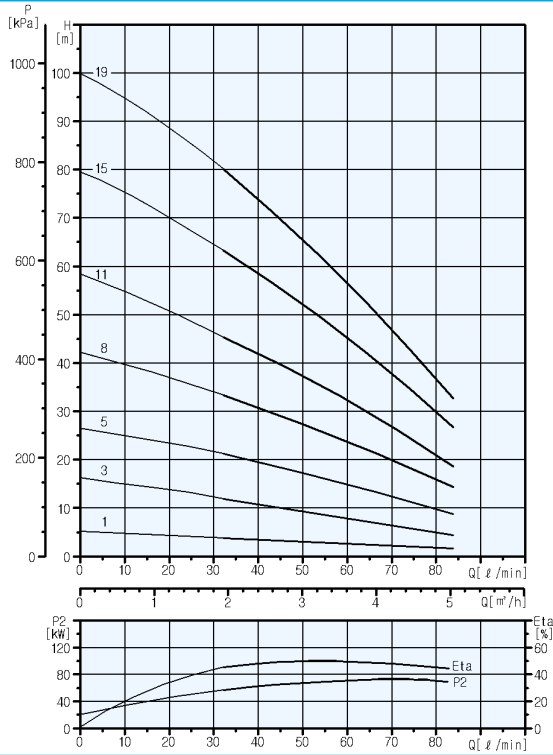
Dimensions(mm)						Net weight (kg)
A	B	C	D1	D2	E	
437	141	296	148	120	123	13.6
479	183	296	148	120	123	13.8
521	225	296	148	120	123	14.0
599	288	311	148	120	123	16.2
677	351	326	148	120	123	18.4
786	435	351	148	120	123	20.4
870	519	351	148	120	123	21.1
954	603	351	148	120	123	21.7

※ 최저효율제 시행 적용시 외형 치수가 변경될 수 있습니다. [External Dimension is subject to change according to Minimum Energy Efficiency policy.]

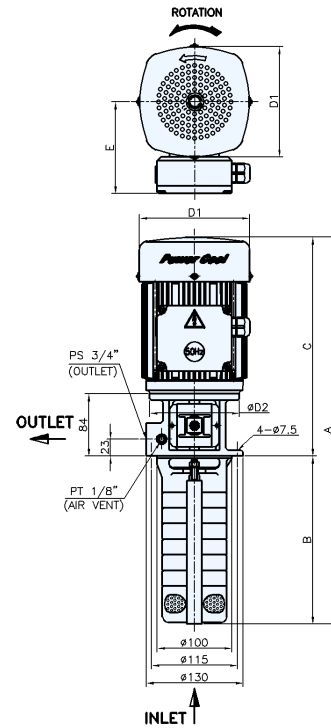
Multi-centrifugal pumps

◎ ASPK 4 [50Hz]

Performance range



External dimensions



Electrical data

■ 3Ø 200-230/380-415V 50Hz

Pump type	Motor		Current (A)	Motor Efficiency (%)
	Frame NO.	kW		
ASPK 4-1/1	F80	0.37	1.56-2.00/1.01-1.27	68
ASPK 4-3/3	F80	0.37	1.56-2.00/1.01-1.27	68
ASPK 4-5/5	F80	0.37	1.56-2.00/1.01-1.27	68
ASPK 4-8/8	F80S	0.55	2.46-2.79/1.39-1.63	73
ASPK 4-11/11	F80M	0.75	3.07-3.19/1.84-1.90	74
ASPK 4-15/15	F80L	1.10	4.84-4.85/2.75-2.86	80
ASPK 4-19/19	F80L	1.10	4.84-4.85/2.75-2.86	80

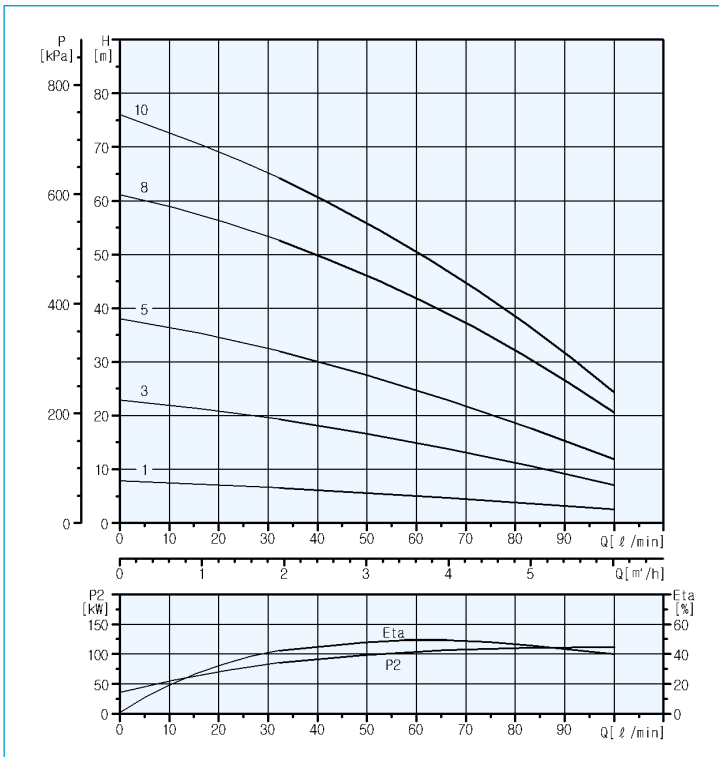
■ Dimensions

Dimension (mm)						Net weight (kg)
A	B	C	D1	D2	E	
437	141	296	148	120	123	13.6
479	183	296	148	120	123	13.9
521	225	296	148	120	123	14.1
599	288	311	148	120	123	16.4
677	351	326	148	120	123	18.8
786	435	351	148	120	123	20.1
870	519	351	148	120	123	21.3

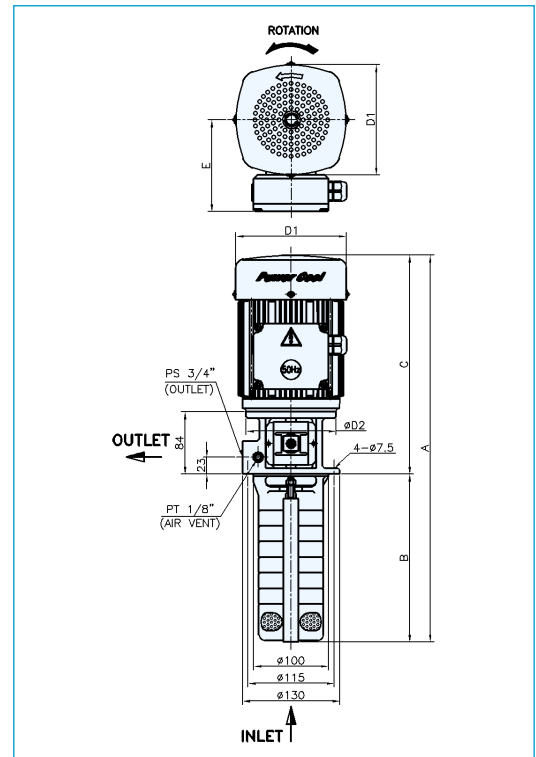
※ 최저효율제 시행 적용시 외형 치수가 변경될 수 있습니다. (External Dimension is subject to change according to Minimum Energy Efficiency policy.)

ASPK 4 [60Hz]

Performance range



External dimensions



Electrical data

3Ø 220-240/380-440V 60Hz

Pump type	Motor		Current (A)	Motor Efficiency (%)
	Frame NO.	kW		
ASPK 4-1/1	F80	0.37	2.02-2.02/0.27-1.10	68
ASPK 4-3/3	F80	0.37	2.02-2.02/0.27-1.10	68
ASPK 4-5/5	F80S	0.55	2.73-2.50/1.58-1.37	73
ASPK 4-8/8	F80L	1.10	4.89-4.48/2.83-2.45	80
ASPK 4-11/10	F80L	1.10	4.89-4.48/2.83-2.45	80
ASPK 4-15/10	F80L	1.10	4.89-4.48/2.83-2.45	80
ASPK 4-19/10	F80L	1.10	4.89-4.48/2.83-2.45	80

Dimensions

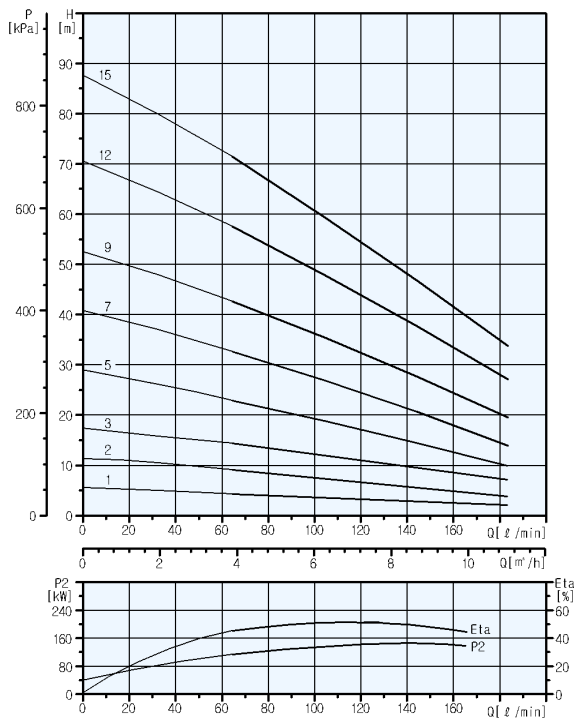
Dimension (mm)						Net weight (kg)
A	B	C	D1	D2	F	
437	141	296	148	120	123	13.0
479	183	296	148	120	123	13.3
536	225	311	148	120	123	15.7
639	288	351	148	120	123	19.1
702	351	351	148	120	123	20.3
786	435	351	148	120	123	20.6
870	519	351	148	120	123	20.9

※ 최저효율제 시행 적용시 외형 치수가 변경될 수 있습니다. (External Dimension is subject to change according to Minimum Energy Efficiency policy.)

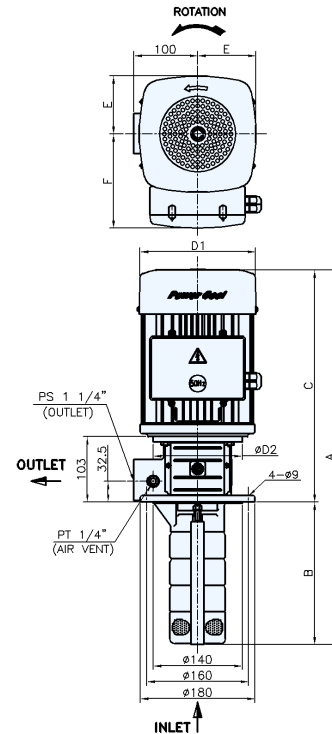
Multi-centrifugal pumps

◎ ASPK 8 [50Hz]

Performance range



External dimensions



Electrical data

■ 3Ø 200-230/380-415V 50Hz

Pump type	Motor		Current (A)	Motor Efficiency (%)
	Frame No.	(P2) kW		
ASPK 8-1/1	F80	0.37	1.56-2.00/1.01-1.27	68
ASPK 8-2/2	F80	0.37	1.56-2.00/1.01-1.27	68
ASPK 8-3/3	F80S	0.55	2.46-2.79/1.39-1.63	73
ASPK 8-5/5	F80M	0.75	3.07-3.19/1.84-1.90	74
ASPK 8-7/7	F80L	1.10	4.84-4.85/2.75-2.86	80
ASPK 8-9/9	F90	1.50	6.90-6.60/4.00-3.80	81
ASPK 8-12/12	F90S	2.20	10.0-9.60/5.80-5.60	86
ASPK 8-15/15	F90S	2.20	10.0-9.60/5.80-5.60	86

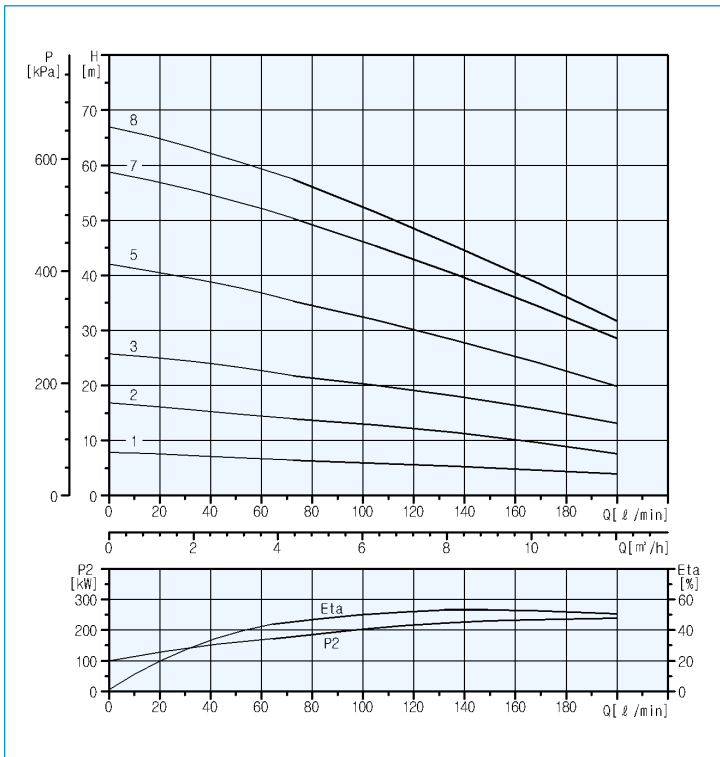
■ Dimensions

Dimensions(mm)							Net weight (kg)
A	B	C	D1	D2	E	F	
498	183	315	148	140	74	123	16.0
540	225	315	148	140	74	123	16.2
597	267	330	148	140	74	123	18.5
696	351	345	148	140	74	123	20.8
805	435	370	148	140	74	123	25.1
877	519	358	183	140	91.5	148	28.6
1020	645	375	183	140	91.5	148	32.1
1146	771	375	183	140	91.5	148	33.6

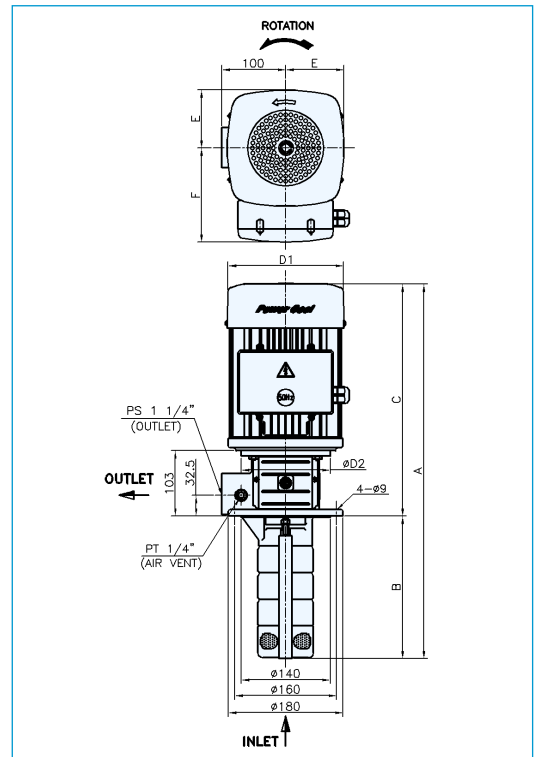
※ 최저효율제 시행 적용시 외형 치수가 변경될 수 있습니다. (External Dimension is subject to change according to Minimum Energy Efficiency policy.)

ASPK 8 [60Hz]

Performance range



External dimensions



Electrical data

■ 3Ø 220-240/380-440V 60Hz

Pump type	Motor		Current (A)	Motor Efficiency (%)
	Frame No.	(P2) kW		
ASPK 8-1/1	F80	0.37	2.02-2.02/1.27-1.10	68
ASPK 8-2/2	F80S	0.55	2.73-2.50/1.58-1.37	73
ASPK 8-3/3	F80L	1.10	4.89-4.48/2.83-2.45	80
ASPK 8-5/5	F90	1.50	7.60-7.30 / 4.40-4.30	81
ASPK 8-7/7	F90S	2.20	11.0-10.5 / 6.40-6.10	86
ASPK 8-9/8	F90S	2.20	11.0-10.5 / 6.40-6.10	86
ASPK 8-12/8	F90S	2.20	11.0-10.5 / 6.40-6.10	86
ASPK 8-15/8	F90S	2.20	11.0-10.5 / 6.40-6.10	86

■ Dimensions

Dimensions(mm)							Net weight (kg)
A	B	C	D1	D2	E	F	
498	183	315	148	140	74	123	16.0
555	225	330	148	140	74	123	18.2
637	267	370	148	140	74	123	22.5
709	351	358	183	140	91.5	148	26.6
810	435	375	183	140	91.5	148	29.4
894	519	375	183	140	91.5	148	31.4
1020	645	375	183	140	91.5	148	32.0
1146	771	375	183	140	91.5	148	32.5

※ 최저효율제 시행 적용시 외형 치수가 변경될 수 있습니다. [External Dimension is subject to change according to Minimum Energy Efficiency policy.]

Multi-centrifugal pumps

ACH Series



ACH - 4 - 30 / F

Pump type
펌프형식

Normal volume(m³/h)
표준유량

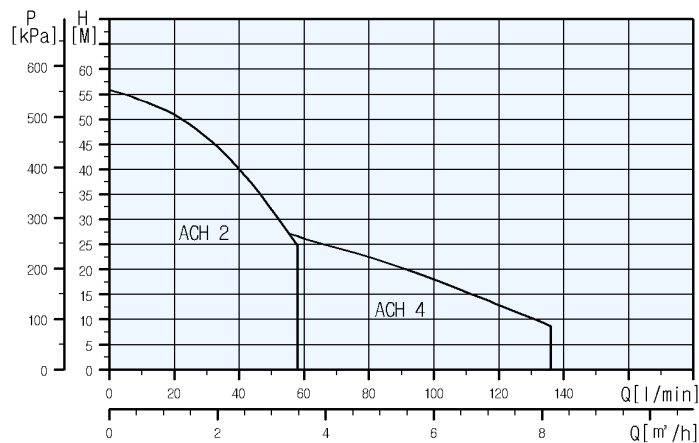
Stage of pump × 10
챔버단수

Pump material
재질

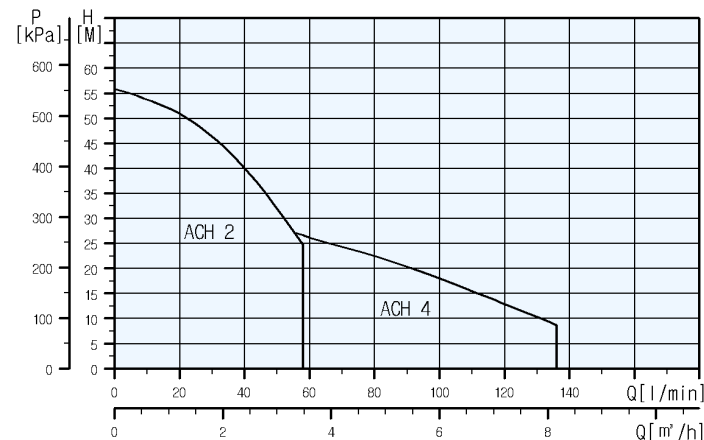
F: Cast iron, S: Stainless steel [Pump body, Suction chamber]

Performance range

50Hz



60Hz



1. A-RYUNG 표준Motor로 시험한 Data임.
2. 시험액 : 기포가 없는 유체온도 20℃ 청수
3. 점도(Viscosity) = 1mm²/s(1cSt)의 물 기준

The performance result is tested by A-RYUNG standard motor.
Testing liquid: clean water in temperature 20℃ without foam
Viscosity; water standard is 1mm²/s (1cSt)

- Enclosure class : IP54
보호등급
- Insulation class : F
절연계급

◎ Products range

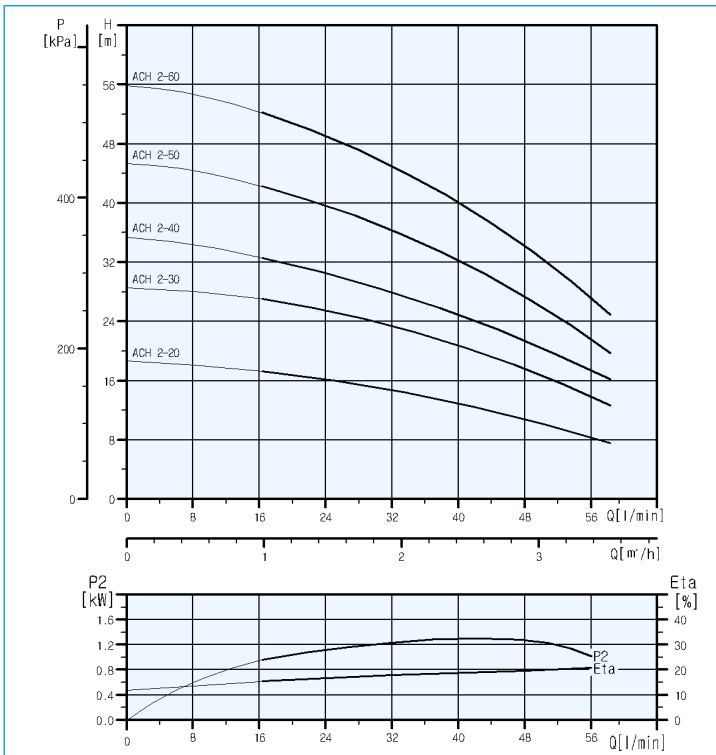
ACH - 4 - 30 / F

Description		ACH2	ACH4
Range 50Hz	Normal volume(m ³ /h)	2	4
	Normal volume(l/min)	33.3	67
	Volume range(l/min)	16-58.3	33.3-133
	Max. pressure(bar)	5.6	4.6
	Motor output(kW)	0.37-1.1	0.37-1.1
	Temperature range(°C)	-10-90	-10-90
Range 60Hz	Normal volume(m ³ /h)	2	4
	Normal volume(l/min)	33.3	67
	Volume range(l/min)	25-67	43.3-150
	Max. pressure(bar)	6.8	4.0
	Motor output(kW)	0.37-1.1	0.55-1.1
	Temperature range(°C)	-10-90	-10-90
Material variants	Pump head	GC25 / SUS304	GC25 / SUS304
	Chamber	SUS304	SUS304
	Impeller	SUS304	SUS304
	Suction Chamber	GC25 / SUS304	GC25 / SUS304
	Base	SS41	SS41
Pipe connection	In-let	Ps 1"	Ps 1" / 1 1/2 "
	Out-let	Ps 1"	Ps 1"
	Flange	-	-
Mechanical Seal	Carbon / Sic seal type	Ø16	Ø16

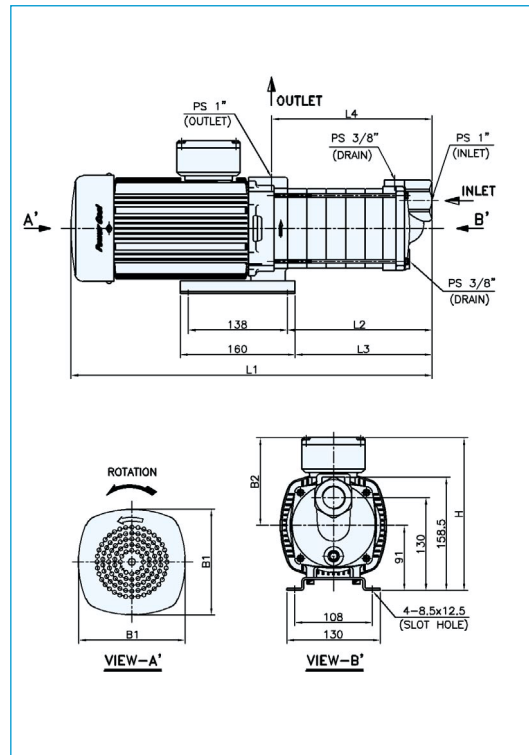
Multi-centrifugal pumps

ACH 2 [50Hz]

Performance range



External dimensions



Electrical data

3Ø 200-230/380-415V 50Hz

Pump type	Motor		Current (A)	Motor Efficiency (%)
	Frame NO.	kW		
ACH 2-20	F80	0.37	2.02-1.75/1.06-0.97	68
ACH 2-30	F80S	0.55	2.50-2.18/1.32-1.21	73
ACH 2-40	F80S	0.55	2.50-2.18/1.32-1.21	73
ACH 2-50	F80M	0.75	3.62-3.15/1.91-1.74	74
ACH 2-60	F80L	1.1	4.48-3.90/2.36-2.16	80

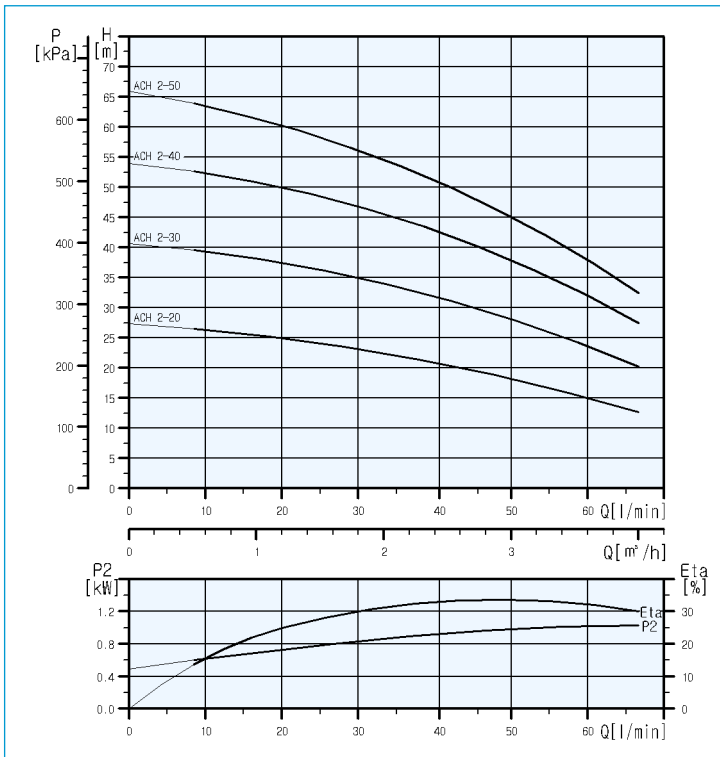
Dimensions

Dimension (mm)							Net weight (kg)
L1	L2	L3	L4	B1	B2	H	
346	86	74	107	148	123	214	11.6
364	104	92	125	148	123	214	11.8
382	122	110	143	148	123	214	12.0
415	140	128	161	148	123	214	13.2
458	158	146	179	148	123	214	14.1

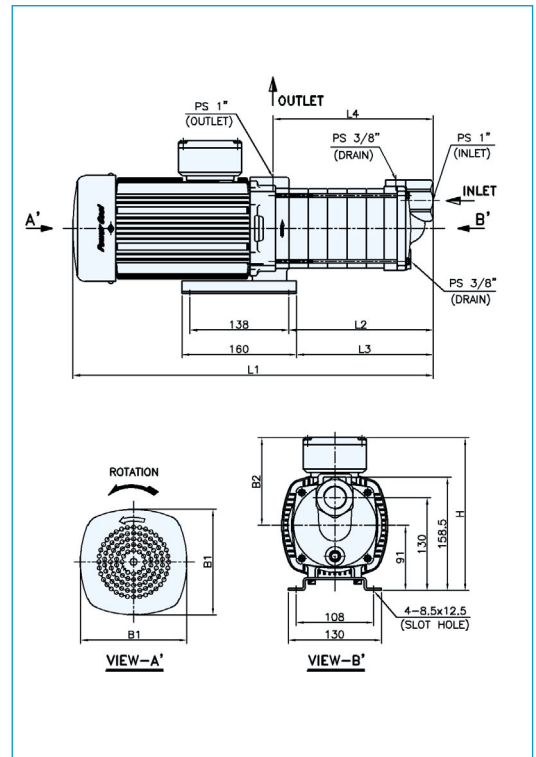
※ 최저효율제 시행 적용시 외형 치수가 변경될 수 있습니다. (External Dimension is subject to change according to Minimum Energy Efficiency policy.)

ACH 2 [60Hz]

Performance range



External dimensions



Electrical data

■ 3Ø 220-240/380-440V 60Hz

Pump type	Motor		Current (A)	Motor Efficiency (%)
	Frame NO.	kW		
ACH 2-20	F80S	0.55	2.73-2.50/1.58-1.37	73
ACH 2-30	F80M	0.75	3.95-3.62/2.29-1.98	74
ACH 2-40	F80L	1.1	4.89-4.48/2.83-2.45	80
ACH 2-50	F80L	1.1	4.89-4.48/2.83-2.45	80

■ Dimensions

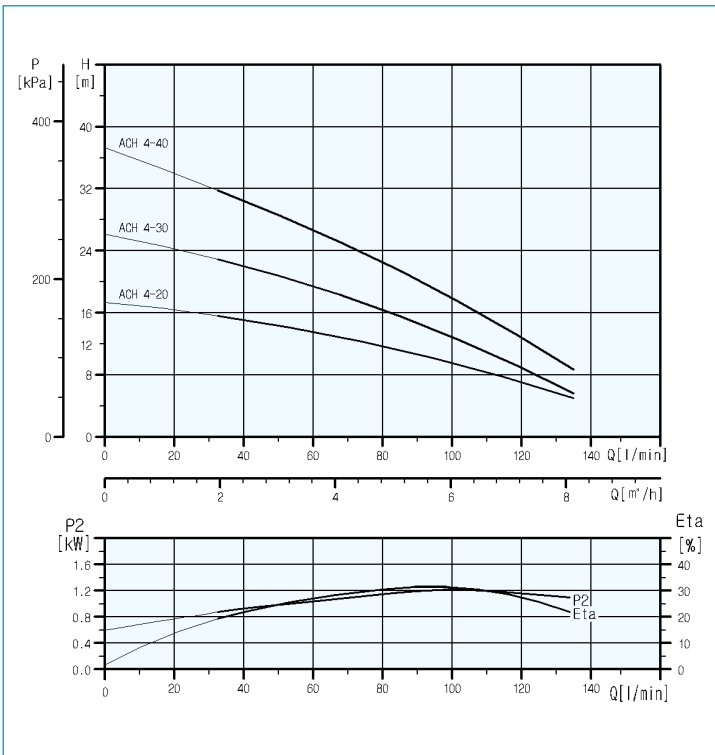
Dimension (mm)							Net weight (kg)
L1	L2	L3	L4	B1	B2	H	
346	86	74	107	148	123	214	11.6
379	104	92	125	148	123	214	13.0
422	122	110	143	148	123	214	13.8
440	140	128	161	148	123	214	14.0

※ 최저효율제 시행 적용시 외형 치수가 변경될 수 있습니다. [External Dimension is subject to change according to Minimum Energy Efficiency policy.]

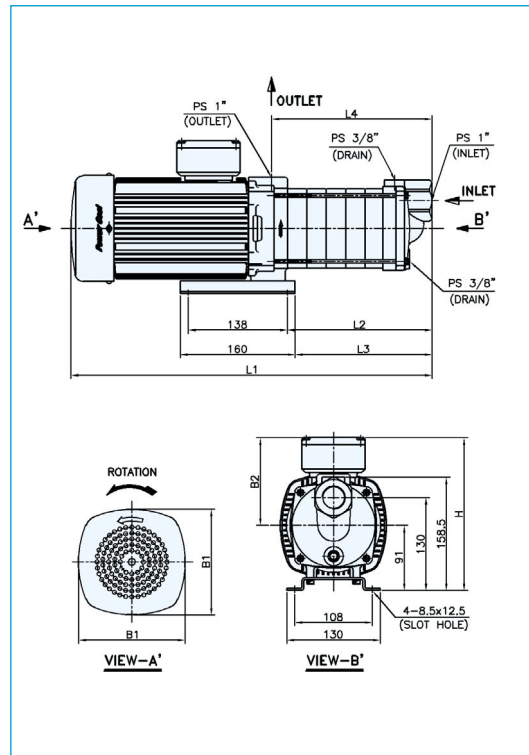
Multi-centrifugal pumps

ACH 4 [50Hz]

Performance range



External dimensions



Electrical data

3Ø 200-230/380-415V 50Hz

Pump type	Motor		Current (A)	Motor Efficiency (%)
	Frame NO.	kW		
ACH 4-20	F80S	0.55	2.50-2.18/1.32-1.21	73
ACH 4-30	F80M	0.75	3.62-3.15/1.91-1.74	74
ACH 4-40	F80L	1.1	4.48-3.90/2.36-2.16	80

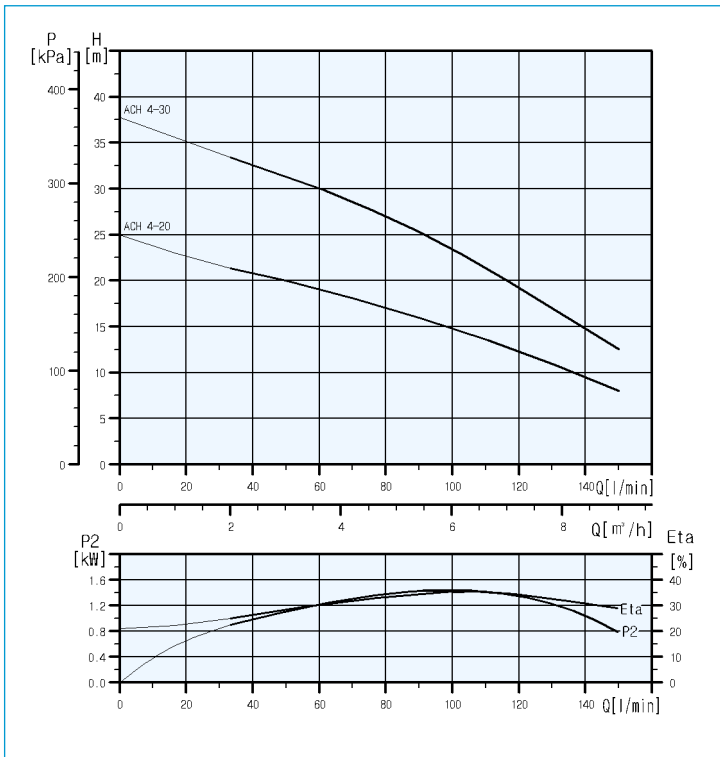
Dimensions

Dimension (mm)							Net weight (kg)
L1	L2	L3	L4	B1	B2	H	
380	95	83	116	148	123	214	11.4
422	122	110	143	148	123	214	12.6
474	149	137	170	148	123	214	14.2

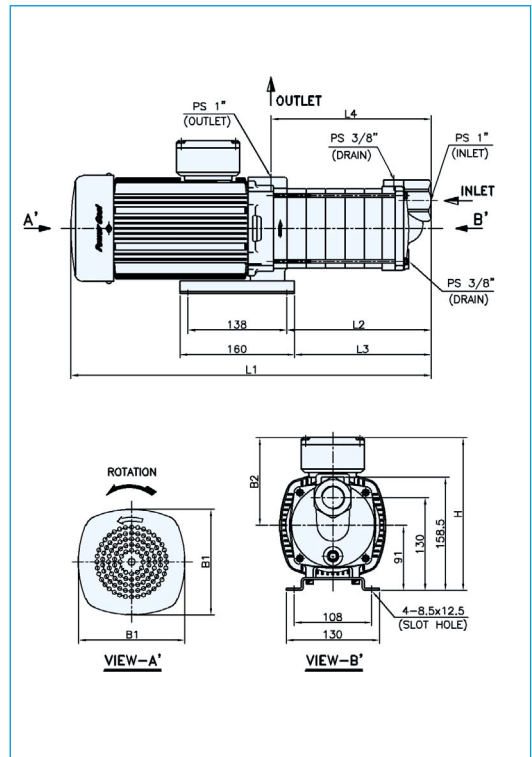
※ 최저효율제 시행 적용시 외형 치수가 변경될 수 있습니다. (External Dimension is subject to change according to Minimum Energy Efficiency policy.)

ACH 4 [60Hz]

Performance range



External dimensions



Electrical data

3Ø 220-240/380-440V 60Hz

Pump type	Motor		Current (A)	Motor Efficiency (%)
	Frame NO.	kW		
ACH 4-20	F80M	0.75	3.95-3.62/2.29-1.98	74
ACH 4-30	F80L	1.1	4.89-4.48/2.83-2.45	80

Dimensions

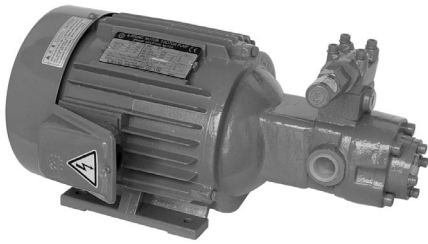
Dimension (mm)							Net weight (kg)
L1	L2	L3	L4	B1	B2	H	
395	95	83	116	148	123	214	12.4
422	122	110	143	148	123	214	14.0

※ 최저효율제 시행 적용시 외형 치수가 변경될 수 있습니다. [External Dimension is subject to change according to Minimum Energy Efficiency policy.]

High Pressure Coolant pumps

◎ AMTP-CH Series

AMTP - 1500 - 216CH(VD) - 20



Motor out-put _____
 모터출력(W)
 Pump type _____
 펌프형식
 Maximum pressure _____
 최고압력
 (bar)

- 고압 Coolant용으로 설계되었으며, 공작기계 M.C.T 및 각종 산업기계에 적합합니다.
- 흡입라인에 필터를 필히 부착하여 사용하십시오.(2cSt ~ 10cSt)
- Cyclone Filter system과 조합하여 사용이 가능합니다.
- AMTP-216CH(VD) series is designed for high pressure coolant usage. it is used M.C.T & various industrial machines.
- Make sure to attache the filter in suction part (less 50β≧)
- It can be used to assemble with cyclone filter system.

TYPE	1500rpm (50Hz, 4P)				1800rpm (60Hz, 4P)				D (Port dia)
	Dis' volume (ℓ /min)	Max' pressure(bar)			Dis' volume (ℓ /min)	Max' pressure(bar)			
		1500W	2200W	3700W		1500W	2200W	3700W	In/Out-let
216CH(VD)-20	8.0	18	-	-	10.0	20	-	-	PT 3/4"
216CH(VD)-30	12.0	-	28	-	16.0	-	30	-	
320CH(VD)-30	14.0	-	-	30	20.0	-	-	30	PT 1" (1 1/4")

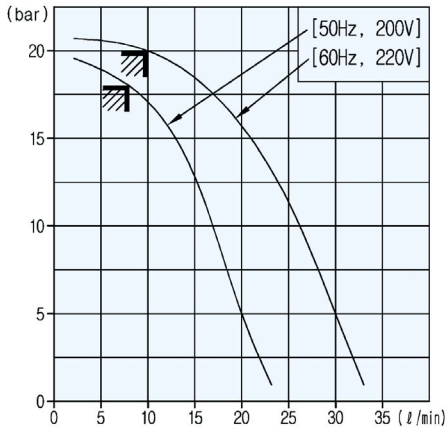
MOTOR (Out-put)	Frequency (Hz)	Voltage (V)	Current (A)	Motorspeed (rpm)	Phase (∅)	Ploes (P)	Insulation Class	Encloure Class
1500W	50	200	6.9	1400-1450	3	4	E (F)	IP44 (IP54)
	60	220	6.6	1700-1750				
2200W	50	200	9.3	1400-1450				
	60	220	8.4	1700-1750				
3700W	50	200	14.9	1400-1450				
	60	220	13.5	1700-1750				

※상기제품은 고압 쿨란트 전용 펌프이다. 다른 용도의 펌프로 사용하고자 할 때에는 필히 본사 기술팀에 문의 바랍니다.

※The above product is a high-pressure pump kulanteu only. Want to use for other purposes when the pump should probably contact our engineering team. Applied to enforce choejeohyulje Dimensions are subject to chang.

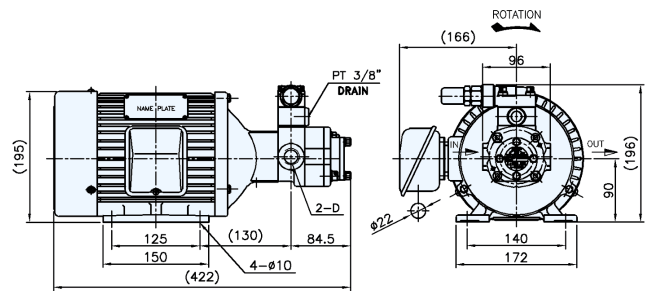
Performance range 성능곡선 [60Hz]

Water-soluble cutting oil (수용성 절삭유)

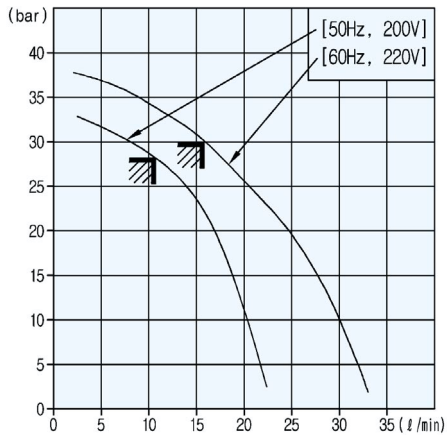


External dimensions 외형도

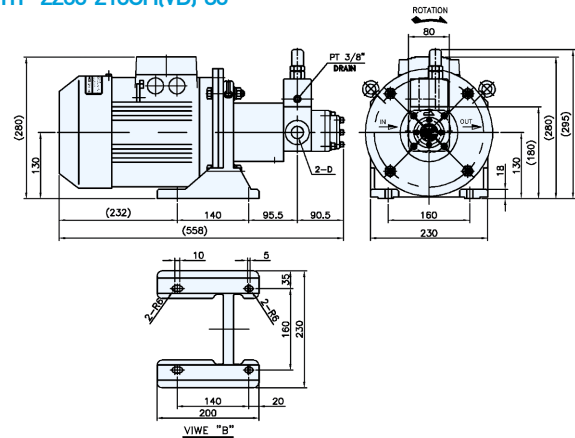
AMTP-1500-216CH(VD)-20



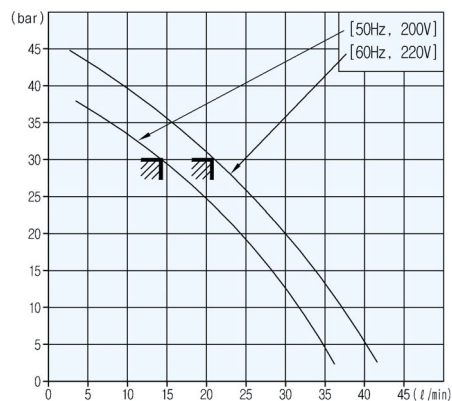
Water-soluble cutting oil (수용성 절삭유)



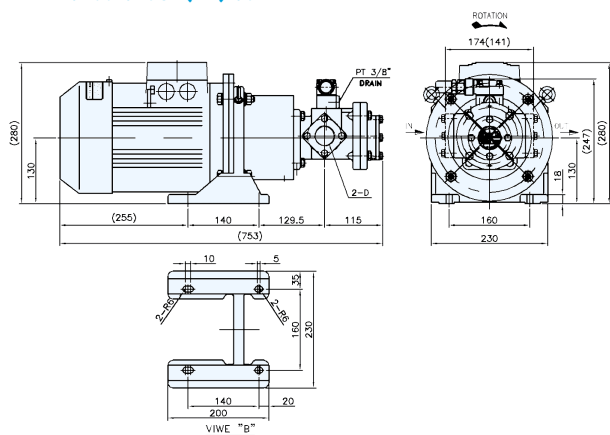
AMTP-2200-216CH(VD)-30



Water-soluble cutting oil (수용성 절삭유)



AMTP-3700-320CH(VD)-30



*위 Data는 유온 20℃, 점도 2cSt에서 작성 되었다. (Above data is tested in the viscosity 2cSt and oil temperature 20℃.)

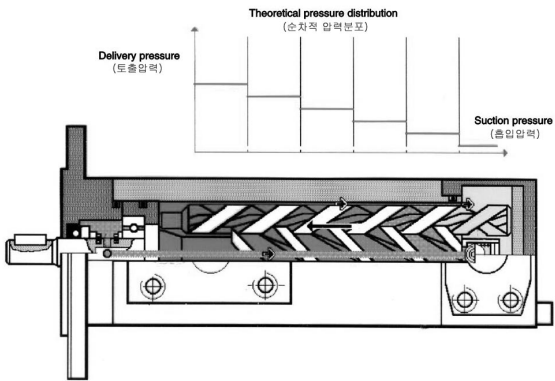
※ 최저효율제 시행 적용시 외형 치수가 변경될 수 있습니다. (External Dimension is subject to change according to Minimum Energy Efficiency policy.)

Screw pumps



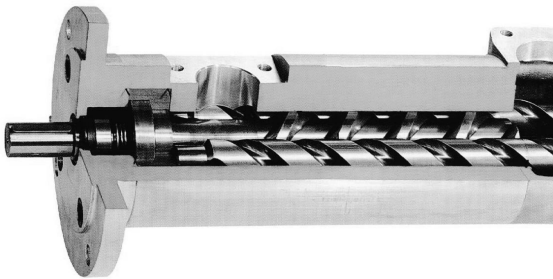
◎ AMPO-H(V) Series

HOW A SCREWS PUMP WORK 펌프 작동원리



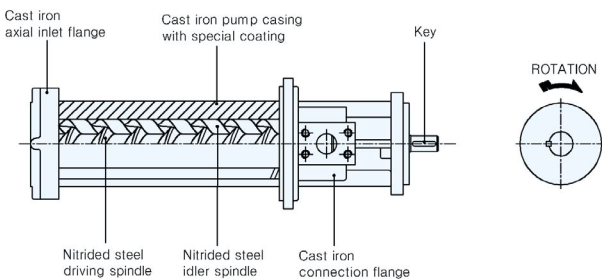
- 스크류 펌프는 흡입측에서 토출측으로 진행 되어질때 펌프안에 발생하는 압력을 흡입과 토출이 일정하게 유지할수 있게 펌프안에 내부 드레인 홀이 설치되어 있어서 내부에 스크류가 역학적으로 균형이 잡히게 설계 되어 있다.
- Due to the three screw set, The area between the screw thread and pump body form sealed chambers that are of uniform volume. Rotation of the screws forms and moves these chambers from the suction to discharge port. Pressure is raised along the screw length until it reaches the required working pressure. This also provides internal lubrication and provides the screws with hydrostatic balancing.

THIS OFFERS YOU GREAT ADVANTAGES 펌프의 장점



- 저소음 (Very low noise levels)
- 맥동이 낮음 (Very low pulsation level)
- 자흡력이 뛰어나 (High self priming capacity)
- 고점도 사용이 가능 (Wide compatibility with high viscosity media)
- 내구성이 뛰어나 (Low pump maintenance)

SECTION AND COMPONENTS 단면 및 구성



- 낮은 점도에서도 cooling이 가능하며 적은 유량에도 윤활이 가능하다.
- 최대압력 = 100bar (3600 rpm)
- 동작기계용 고압력 cooling 시스템으로 최적이다.
- For cooling lubricants with low viscosity and minimumlubricating properties
- Admissible delivery pressure(continuous)=100bar at 3600rpm
- Machine tools high pressure cooling systems

※ 최저효율제 시행 적용시 외형 치수가 변경될 수 있습니다. (External Dimension is subject to change according to Minimum Energy Efficiency policy.)

AMPO-H(V) Series

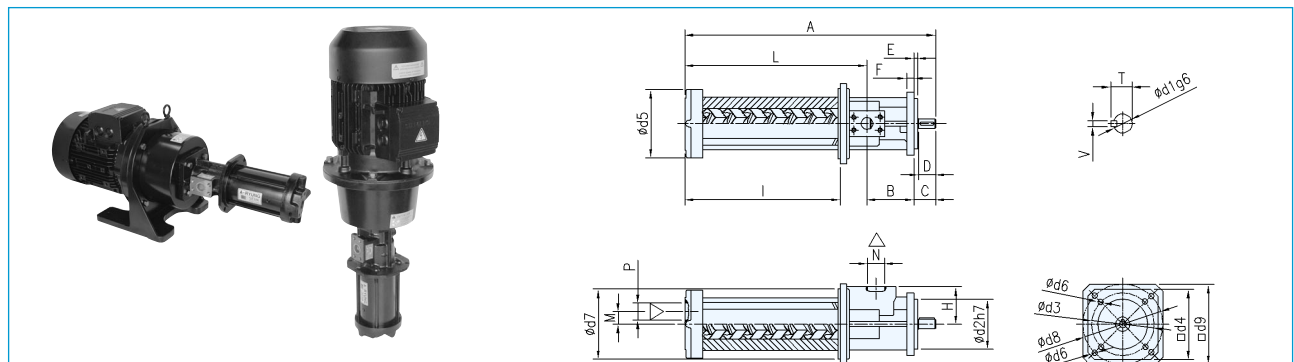
FUNCTIONAL CHARACTERISTICS STANDARD VERSION 기능 표준서

Delivery flow	유 량	20 ~ 600L/min
Admissible delivery pressure*	사용압력	AP04-MAX' 60bar (3600 rpm), AP06-MAX' 100bar(3600rpm)
Admissible suction pressure	흡입압력	-0.5 ~ 10 bar
Kinematics viscosity	사용점도	2~ 400 cSt
Admissible temperature	사용온도	0 ~ 60 °C
Driving speed	회전속도	1500 ~ 3600 rpm
Average noise level	소 음	58 ~ 72 dB(A) at 3600 rpm according to pump dimension
Recommended filtration	권장Filter	40 μm max, suction side (not abrasive contaminant) ISO440618/15 - NAS 9
Direction of rotation	회전방향	Clockwise, as seen from the driving side

※ 상기제품은 고압 쿨란트 전용 펌프입니다. 다른 용도의 펌프로 사용하고자 할 때는 필히 본사 기술팀에 문의 바랍니다.

*For different functional characteristics, please contact our technical team.

APO SERIES EXTERNAL DIMENSIONS 외형도



AP04 series dimensional chart (mm)

MODEL	A	B	C	D	E	F	H	I	L	M	SAE		GAS		T	V	d1	d2	d3	d4	d5	d6	d7	d8	d9
											N	P	T	V											
AP0025#4	351	76	43	35	7	15	74.5	161	232	25	1"	1"	21.5	6	19	100	125	140	136	11	140	160	160		
AP0029#4	351	76	43	35	7	15	74.5	161	232	25	1"	1"	21.5	6	19	100	125	140	136	11	140	160	160		
AP0032#4	383	76	43	35	7	15	74.5	193	264	25	1"	1"	21.5	6	19	100	125	140	136	11	140	160	160		
AP0040#4	433	96	49	40	7	15	81	217	288	25	1 1/2"	1 1/2"	24.5	6	22	125	160	152	178	13	180	215	200		
AP0045#4	477	96	49	40	7	15	81	261	332	30	1 1/2"	1 1/2"	27	8	24	125	160	152	178	13	180	215	200		
AP0055#4	592	126	64	55	7	15	100	331	402	28	2"	3"	33	8	30	125	160	200	200	13	235	265	265		
AP0060#4	660	126	64	55	7	15	100	399	470	28	2"	3"	35	10	32	125	160	200	200	13	235	265	265		

AP06 series dimensional chart (mm)

MODEL	A	B	C	D	E	F	H	I	L	M	SAE		GAS		T	V	d1	d2	d3	d4	d5	d6	d7	d8	d9
											N	P	T	V											
AP0025#6	397	76	43	35	7	15	74.5	207	278	25	1"	1"	21.5	6	19	100	125	140	136	11	140	160	160		
AP0029#6	397	76	43	35	7	15	74.5	207	278	25	1"	1"	21.5	6	19	100	125	140	136	11	140	160	160		
AP0032#6	441	76	43	35	7	15	74.5	251	322	25	1"	1"	21.5	6	19	100	125	140	136	11	140	160	160		
AP0040#6	529	96	49	40	7	15	81	313	384	25	1 1/2"	1 1/2"	24.5	6	22	125	160	152	178	13	180	215	200		
AP0045#6	583	96	49	40	7	15	81	367	438	30	1 1/2"	1 1/2"	27	8	24	125	160	152	178	13	180	215	200		
AP0055#6	669	126	64	55	7	15	100	408	479	28	2"	3"	33	8	30	125	160	200	200	13	235	265	265		
AP0060#6	726	126	64	55	7	15	100	465	536	28	2"	3"	35	10	32	125	160	200	200	13	235	265	265		

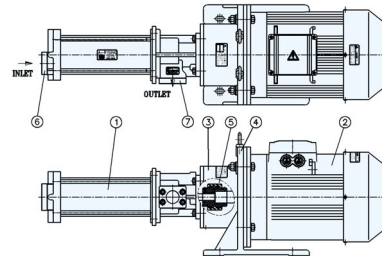
Screw pumps

◎ AMPO-H(V) Series

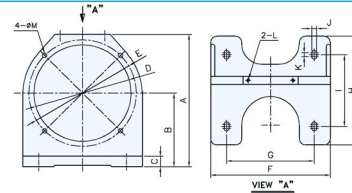
Screw pumps-

AMPO series component

1. APO-PUMP 2. MOTOR 3. BELL HOUSING 4. BRACKET
5. NYLON COUPLING 6. IN-LET FLANGE 7. OUT-LET FLANGE

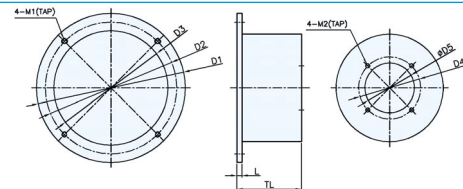


Bracket Dimensional



MODEL	FRAME No.	DIMENSION(mm)												
		A	B	C	ØD	E	F	G	H	I	J	K	L	ØM
BR-165	80, 90S, 90L	220	120	12	130	165	200	140	125	165	10	5	M8	11
BR-215	100L, 112L	230	130	18	180	215	230	160	140	200	12	5	M8	13
BR-265	132S, 132M	329	183	26	240	265	295	216	178	270	12	10	M10	14
BR-300	160M, 160L	380	205	20	265	300	350	254	254	370	16	15	M12	18

Bell Housing Dimensional

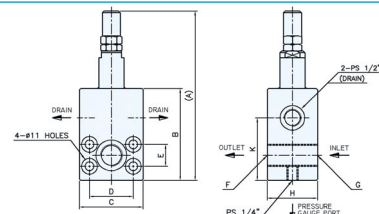


MODEL	적용 FRAME	적용 PUMP	DIMENSION(mm)									
			D1	D2	D3	D4	D5	M1	M2	L	TL	
BH-165A	80, 90S, 90L	APO 025/029/032#4(6)	200	165	130	125	100	M10	M10	10	100	
BH215A	100L, 112M		250	215	180	125	100	M12	M10	10	112	
BH265A	132S, 132M		300	265	230	125	100	M12	M10	10	130	
BH-300A	160M, 160L	APO 025/029/032#4(6)	350	300	250	125	100	M16	M10	12	162	
BH-265B	132S, 132M	APO 040/045#4(6)	300	265	230	160	125	M12	M12	10	131	
BH-300B	160M, 160L		350	300	250	160	125	M16	M12	12	163	
BH-300C	160M, 160L	APO 055/060#4(6)	350	300	250	160	125	M16	M12	12	176	

Pressure relief valves BVPA

Adjustable setting Valves

- Discharge range 250L/min • Pressure range 25-120bar
- Temperature range 0-80°C • Viscosity 2-400cSt
- O-ring NBR



TYPE	DIMENSION(mm)									O-ring
	A	B	C	D	E	F	G	H	K	
BVPA-01	205	110	76	52.4	26.2	PS 1"	PS 1"	60	75	G-35
BVPA-02	225	130	94	69.9	35.7	PS 1 1/2"	PS 1 1/2"	60	95	G-50

High Pressure Coolant System

ACFS Series

Cyclone Filter system 적용 고압 절삭유 공급장치



ACFS - S - 100 - B

Pump division
T : T-rotor pump, S : Screw pump

Pressure
20ber~100ber

필터부착방식
B : Bracket type, C : Cabinet tye

- 싸이클론 원리를 이용한 필터 시스템은 고압쿨란트 전용 펌프를 부착하여 높은 압력을 필요로 하는 고정밀, 고기능의 고속회전 공작기계에 적합하게 제작되었다.
- 싸이클론 원리에 의해 제작되어, 칩(Chip)이 침체되지 않고 드레인 밸브를 통해 계속 흘러가도록 설계되었다.
- 에어 밸브가 부착되어 있어 에어를 공급함으로써 필터내의 칩(Chip)을 청소할 수 있도록 설계되어, 필터의 교환 주기를 연장시켰다.
- ACFS series is high pressure system and is used machine and tools for high rotation.
- As being cyclone filter type, Chip will be discharged into tank via drain valve.
- ACFS series has air-valve to supply air into filter and can be clean by itself so that improved the exchange period of filter.

TYPE	T-ROTOR PUMP (ACFS-T)						SCREW PUMP (ACFS-S)			
	20		30		50		70		100	
Out-put (W)	1,500		3,000		3,700		5,500		7,500	
Frequency (Hz)	50	60	50	60	50	60	50	60	50	60
Voltage (V)	200	220	200	220	200	220	200	220	200	220
Current (A)	6.9	6.6	11.0	10.0	14.0	13.0	18.4	18.4	24.6	24.6
Volume (ℓ/min)	8.0	10.0	12.0	16.0	22.4	23.9	18.7	20.9	13.1	16.3
Head (bar)	18	20	28	30	50	50	70	70	100	100
In / Out Let (PS)	2 - PS 3/4"		2 - PS 3/4"		2 - PS 1"		2 - PS 1"		2 - PS 1"	

◆ ACFS-T-**은 2cSt, 1500rpm(50Hz), 1800rpm(60hz) 기준임. ◆ ACFS-S-**은 2cSt, 3000rpm(50Hz), 3600rpm(60hz) 기준임.



800(H)*570(W)*455(T)



700(H)*1250(W)*415(T)



1350(W)*1010(H)*350(T)

Suction filters

◎ ASF-L, HL Series



ASF - L

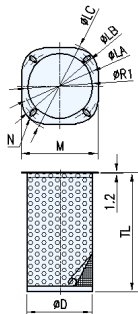
Filter division
필터 사양

- Suction filter는 침수식 펌프와 조합하여 사용하여 펌프의 수명을 연장하고 절삭 작업시 정밀도를 유지할 수 있다.
- 설치 및 분리가 용이하여 Filter의 교환이나 청소가 간편하다.
- The suction filter is used combining with immersion pump, it improves long life of pump and keeps operating with precision.
- It is easy to install and separate the filter and also it is simple to change and to keep clean the filter.

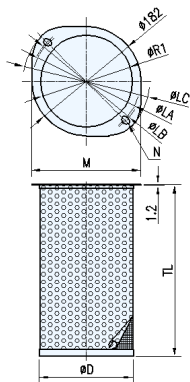
Type	ØD	ØR1	TL	ØLA	ØLB	ØLC	M	N	Application model 적용 모델
ASF-60L	100	92	164	130	134	150	114	4-Ø9	ACP-60F, 100F
ASF-180L	125	117	186	134	170	203	158	4-Ø12	ACP-180F
ASF-250L	144	136	263	160	170	203	158	4-Ø12	ACP-250F, 180HF25, 250HF25
ASF-400L	156	154	286	180	186	210	182	2-Ø12	ACP-400F
ASF-180HL18	144	136	186	160	-	180	142	4-Ø12	ACP-180HF18, 250HF18
ASF-400HL18	156	154	186	180	186	210	177	4-Ø12	ACP-400HF18, 600HF18
ASF-400HL28	156	154	286	180	186	210	177	4-Ø12	ACP-400HF28, 600HF28
ASF-900L	184	180	262	215	-	243	190	4-Ø14	ACP-900MF
ASF-09L45	194	186	189	215	-	236	200	4-Ø14	ACP-900HMFS30 / 45
ASF-1500L	194	186	285	215	-	236	200	4-Ø14	ACP-1500MF / 2200MF
ASF-15L70	194	186	202	215	-	236	200	4-Ø14	ACP-1500HMFS60
ASF-22L100	194	186	248	215	-	236	200	4-Ø14	ACP-2200HMFS85 / 100, 1500BMF, 2200BMF
ASF-37L145	194	186	331	215	-	236	200	4-Ø14	ACP-3700HMFS130 / 145, 3700HMFC180V / 200V
ASF-55L220	194	186	448	215	-	236	200	4-Ø14	ACP-3700MF, 3700BMF, 5500BMF, 5500HMFC200V / 220V
ASF-55L260	194	186	507	215	-	236	200	4-Ø14	ACP-5500HMFC240V / 260V
ASF-55L300	194	186	546	215	-	236	200	4-Ø14	ACP-5500HMFC280V / 300V

External dimensions (외형도)

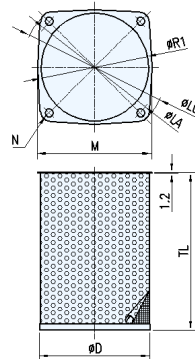
ASF - 60L ASF - 180HL
180L 400HL18
250L 400HL28



ASF-400L

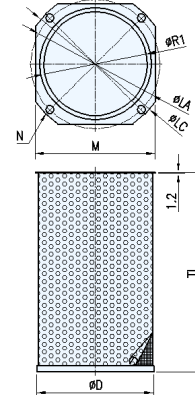


ASF-900L



ASF-09L45
1500L
15L70
22L100

ASF-37L145
55L220
55L260
55L300



- Material 재질 : Steel SB41
- Finishing 도금 : Plating of Zn 아연도금

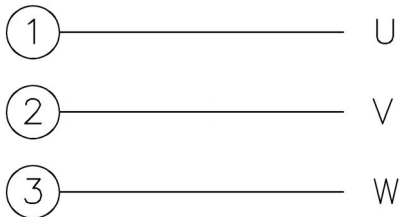
- 20Mesh : F, HF, HMFS, HMFC
- 14Mesh : MF, BMF

Terminal connection

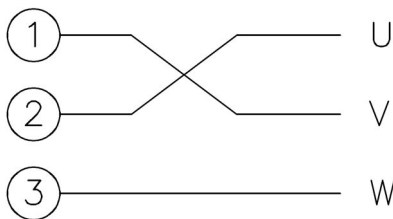
결선도

Single voltage

Right Direction

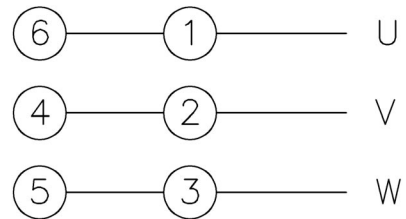


Reverse Direction

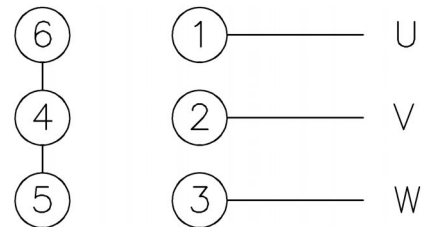


Dual voltage

Low Voltage (200V, 220V)

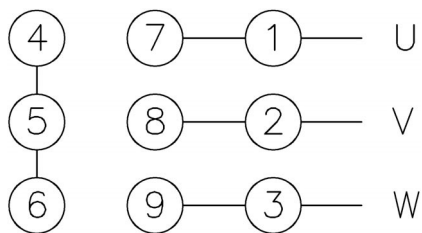


High voltage (380V)

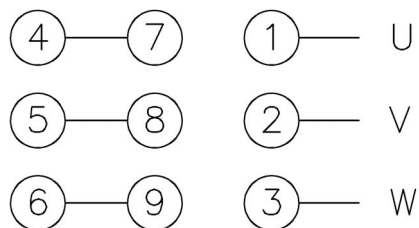


Double voltage

Low Voltage (200V, 220V)

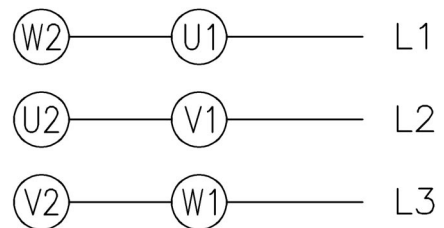


High Voltage (415V, 440V)

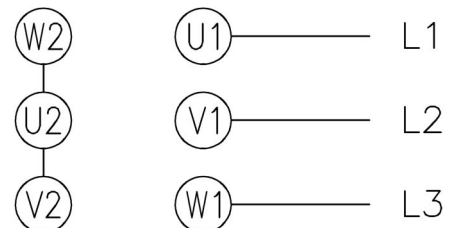


Free voltage

Low Voltage (200V-240V)



High Voltage (380V-440V)



MEMO

외길 인생 35년! 대한민국 대표 브랜드!!

공작기계 발전에는 늘 아룡이 함께합니다!!!

Single mission, focusing on manufacturing quality pumps, for over 35 years!
A-RYUNG The leading (pump) manufacturer in Korea.
A-RYUNG joins the development of Korean machine tools.



HISTORY



2008년 05월 동탑산업훈장수훈



- 1976. 5 아룡기공(주) 설립
Established as A-RYUNG Machinery Industry Co. Ltd.
- 1980. 4 상공부지정 Oil pump 전문화 업체 지정(No.79-118)
Designated technical manufacturer of oil pump by the Ministry of Trade and Industry.
- 1982. 2 근대화 실현계획 승인업체지정 (중소기업진흥공단 No.81-208)
Designated as an "Approved Company of Systematization of Small & Medium Industry" by the Ministry of Trade and Industry.
- 1982. 5 우수중소기업 대통령표창 수상 (No. 54709)
Awarded the Korea Presidential Citation for an "Excellent Small & Medium Enterprise"
- 1987. 9 국산기계개발 우수업체선정 부총리상 수상 (No.87-104호)
Awarded "Excellent company for domestic machine development" by the Deputy Prime Minister.
- 1992. 12 자율세정 공로패 수상 (국세청)
Awarded "Self-Control company for National Tax" by National Tax Office.
- 1993. 5 해외시장 수출 산업상 수상 (대한무역진흥공사)
Awarded an "Export Industry Prize for Overseas Market" by the Korea Trade Center. (KOTRA)
- 1996. 11 "CE" 유럽안전규격 인증 (TUV Rheinland)
Authorized Conformity "EC" declaration by TUV Rheinland.
- 1999. 6 "EM" 기계류, 부품소재 우수품질규격 인증 (한국기술표준원 No.1999-039호)
Obtaining Certification for EM Machinery, Spare parts by Korea Technique Standard Association.
- 1999. 11 ISO 9001 품질경영시스템 인증 (KSA)
Obtaining the ISO 9001 Certification by the KSA-QA supported by IQ-NET.
- 2000. 10 "CSA-c-us" 미국 및 캐나다 안전규격 인증 (CSA INTERNATIONAL)
Obtained the "CSA-c-us" mark, American-Canadian Safety Standard by CSA INTERNATIONAL.
- 2000. 11 수출공로 산업자원부장관상 표창 (No.47955)
Awarded "The prize of Export-developing Company" by Ministry of Trade and Industry.
- 2003. 11 무역진흥 경제발전 공로 산자부장관 표창 수상 (No.54163).
Awarded "Prize of Trade Promotion and Industrial Development" from Ministry of Trade and Industry
- 2003. 12 수출공로 전라남도지사 표창 (No.1421)
Awarded "Prize of excellent Exporter" by Jeonnam Province.
- 2004. 11 중국현지 법인 설립 "아룡기공(대련)유한공사"
Opened China office in Dalian named "A-Ryung Dalian Co. Ltd."
- 2005. 12 "공작기계발전" 공로 국무총리상 표창 (No.133740호)
Awarded "Honor of machine development" by The Prime Minister.
- 2006. 12 무역의 날 기념 100만불 수출탑 수상
Prized "1 Million Tower of Export" celebrating National Trade Day
- 2007. 4 기업부설연구소 설립
Established "Research & Development Center"
- 2007. 9 "MAIN-BIZ" (경영혁신형 중소기업)인증
Obtained "Main-Biz" (management innovation in small & midium Co.)
- 2007. 10 싱글PPM 인증취득
Obtained "Certificate of Single PPM"
- 2007. 10 "INNO-BIZ" (기술혁신형 중소기업)인증 "AA등급"
Obtained "Inno-biz" (management innivation in small & midium Co.) "AA Grade"
- 2007. 11 신용보증기금 투자기업
Investment corporation vecommanded by KOREA CREDIT GUARANTEE FUND
- 2008. 4 자랑스런 중소기업인상 수상
CEO proud of small and midium sized enterprize award
- 2008. 5 동탑산업훈장 수상
awarded bronze tower of industry from ministry of public administration and security
- 2009. 2 "NRTL" 북미 안전 인증 획득.
Obtained "NRTL" Certificate.



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