

**Polypropylene
Magnetic Drive Process Pumps**



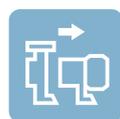
Reliable Process Magnet Pumps that Combine Corrosion Resistance and Strength Against Abnormal Operation

The AMP series is a polypropylene process magnet pump. By adopting our unique Non contact system (a mechanism designed for abnormal operation), the pump is engineered to withstand abnormal operation such as air entrainment. In addition to handling various chemical liquids such as acids and alkalis, the pump is designed for heavy-duty use and can be widely used as an industrial process pump.



Highly Durable Structure

A ductile cast iron shell adds strength and durability to the polypropylene wet ends. The rear casing, which is subject to the highest stress, is reinforced with an FRP cover to increase strength. The maximum allowable casing pressure of 1.0MPa is a highlight feature amongst polypropylene pumps.



Back Pullout System

The Back pullout system features a safety-first design that keeps the chemical sealed within the pump unit, even when the bracket is pulled back for maintenance. This system allows easy maintenance and inspection without removing piping. (Pump on baseplate only)



Unique Design Prevents Abnormal Operation

The AMP series features the Non contact system. The pump exhibits outstanding durability in air ingress to the suction.

Note: Dry running is not permitted.



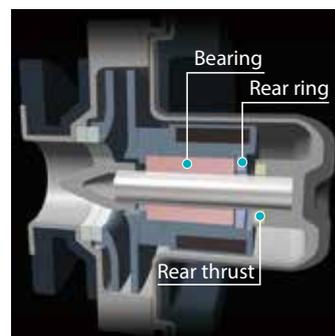
Modular Design and Low Maintenance Cost

The pump is a modular design for ease of maintenance. Specific adjustments such as centering or checking clearances are not required. Wear parts can be replaced individually, providing a cost-effective design.



Non Contact System

The AMP series features a mechanism to withstand abnormal operation. High magnet power of the rare earth magnets prevents the magnet capsule coming into contact with the rear thrust, thus preventing melting of components due to heat generation. This greatly improves resistance against abnormal operation in comparison with conventional magnetic drive pumps.

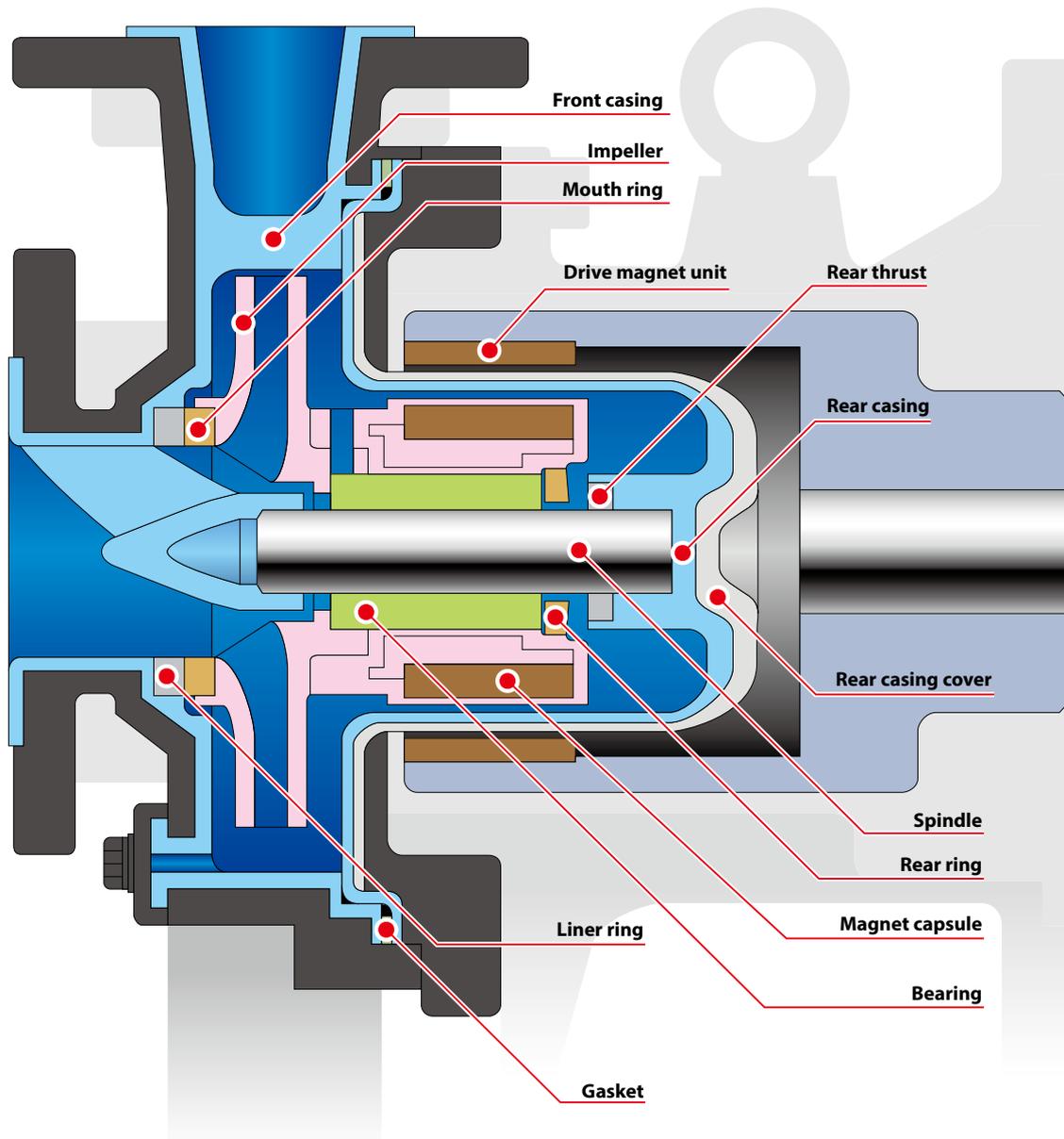


AMP40



AMP50

Construction and Materials



Materials	CF	KK
Front casing		
Rear casing	CFRPP	
Impeller		
Magnet capsule	CFRETFE	
Bearing	High density carbon	SiC
Spindle	High purity alumina ceramic	
Liner ring	PTFE (with filler)	
Mouth ring	High purity alumina ceramic	
Rear ring		
Rear thrust	PTFE	
Gasket		

Pump Identification

AMP 40 - 110 1 CF F 055 J - D 2																																										
1 2 3 4 5 6 7 8 9																																										
<p>1 Pump size (Suction×Discharge)</p> <p>40 : 50A×40A 50 : 65A×50A 65 : 80A×65A</p> <p>2 Impeller size</p> <p>110 - 165 (mm)</p> <p>3 Impeller range</p> <p>1</p> <p>4 Material of Bearing/Spindle</p> <p>CF : High density carbon/High purity alumina ceramic KK : SiC/SiC</p>	<p>5 Type of motor</p> <p>F : Flange motor</p> <p>6 Motor output</p> <p>037 : 3.7kW 055 : 5.5kW 075 : 7.5kW 110 : 11kW 150 : 15kW 185 : 18.5kW ^{Note}</p> <p>7 Standard for pipe connection and motor</p> <p>J : JIS flange +JIS motor I : ISO flange +IEC motor A : ANSI flange +JIS motor</p>			<p>8 Special version</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Mark</th> <th>Drain</th> <th>Base</th> <th>Special version</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Without drain</td> <td>With base</td> <td>Standard</td> </tr> <tr> <td>S</td> <td>Without drain</td> <td>With base</td> <td>Special</td> </tr> <tr> <td>D</td> <td>With drain</td> <td>With base</td> <td>Standard</td> </tr> <tr> <td>X</td> <td>With drain</td> <td>With base</td> <td>Special</td> </tr> <tr> <td>B</td> <td>Without drain</td> <td>Without base</td> <td>Standard</td> </tr> <tr> <td>Y</td> <td>Without drain</td> <td>Without base</td> <td>Special</td> </tr> <tr> <td>E</td> <td>With drain</td> <td>Without base</td> <td>Standard</td> </tr> <tr> <td>Z</td> <td>With drain</td> <td>Without base</td> <td>Special</td> </tr> </tbody> </table> <p>9 Motor pole</p> <p>2 : 2 pole</p>			Mark	Drain	Base	Special version	A	Without drain	With base	Standard	S	Without drain	With base	Special	D	With drain	With base	Standard	X	With drain	With base	Special	B	Without drain	Without base	Standard	Y	Without drain	Without base	Special	E	With drain	Without base	Standard	Z	With drain	Without base	Special
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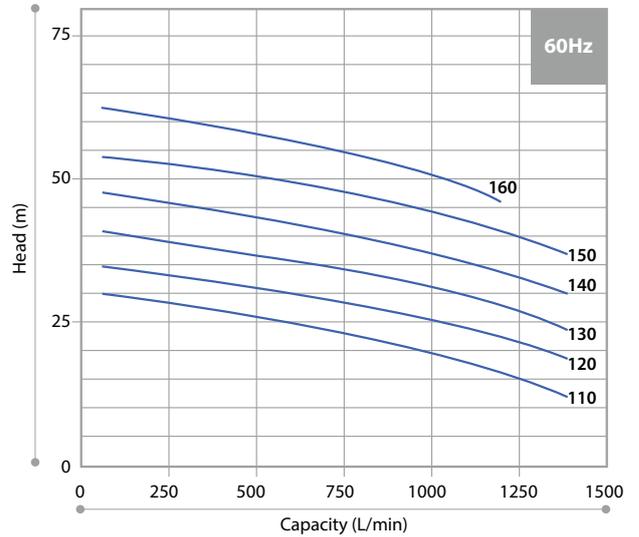
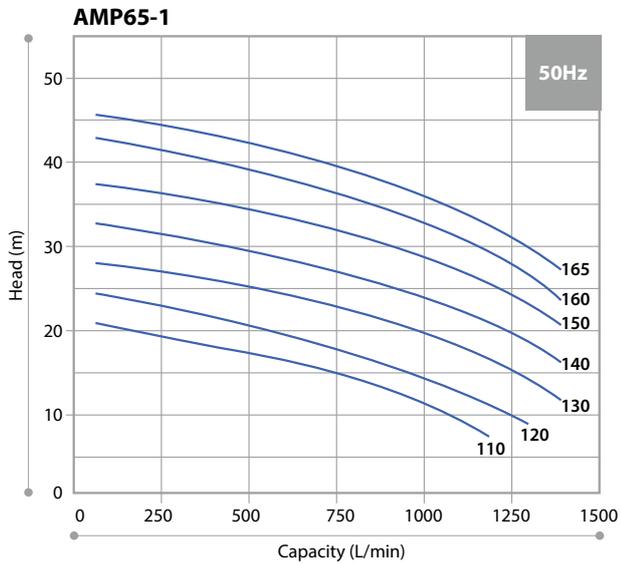
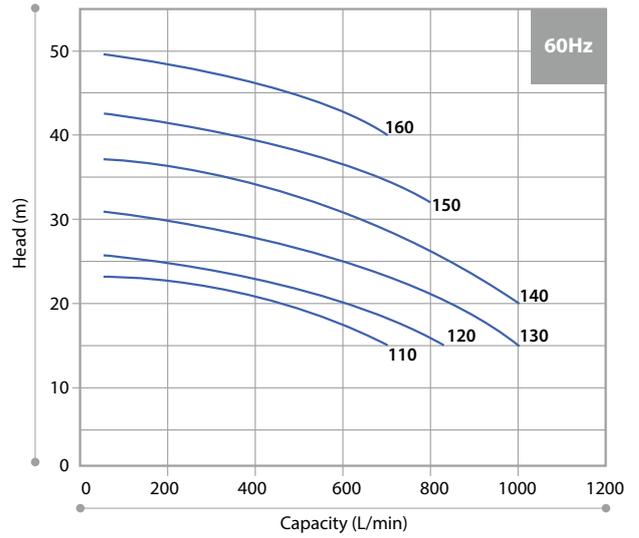
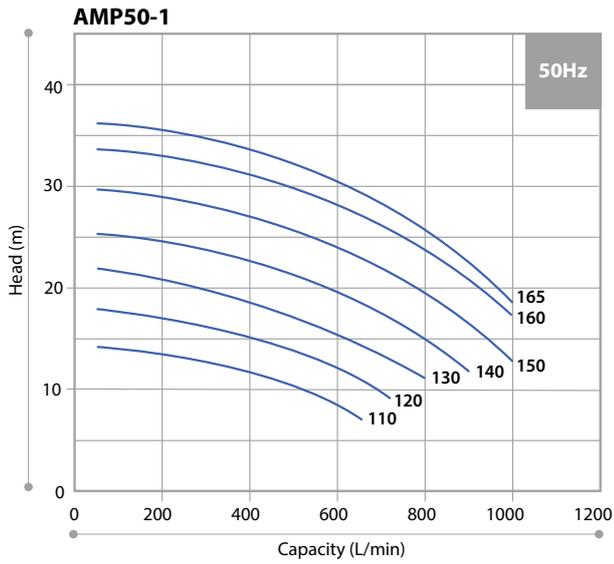
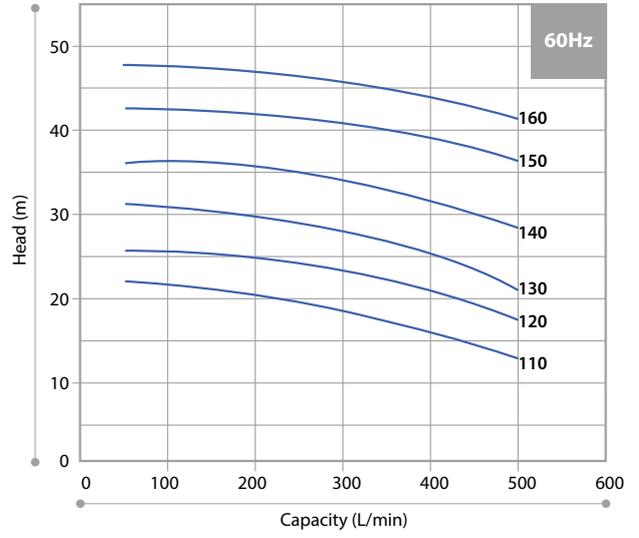
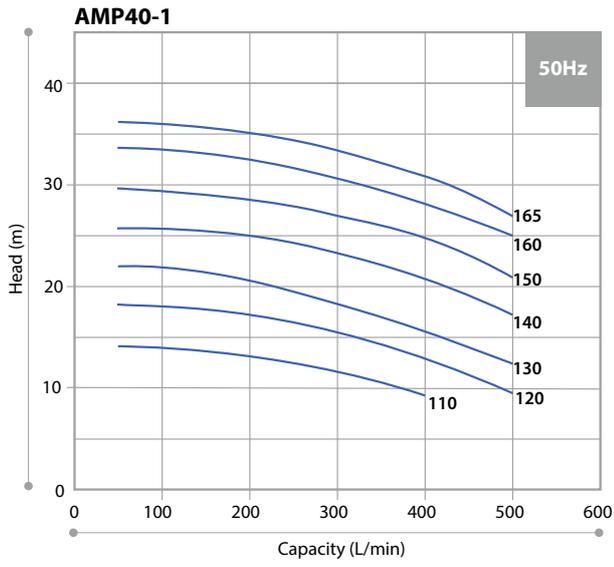
Note : 60Hz only

Specifications

Model	Pump size SuctionDischarge	Impeller size	50Hz		60Hz	
			Capacity (L/min)	Head (m)	Capacity (L/min)	Head (m)
AMP40-1	50 × 40	165	208	35.0	-	
		160		32.5	250	46.5
		150		28.5		41.0
		140		25.0		34.5
		130		20.5		29.0
		120		17.0		24.0
		110		13.0		19.5
AMP50-1	65 × 50	165	417	33.0	-	
		160		31.0	500	44.5
		150		27.0		38.0
		140		22.5		33.0
		130		18.0		27.0
		120		15.0		21.5
		110		12.0		18.5
AMP65-1	80 × 65	165	833	38.5	-	
		160		35.5	1000	51.0
		150		31.0		44.5
		140		26.5		37.0
		130		22.0		31.5
		120		17.5		26.0
		110		13.5		20.0

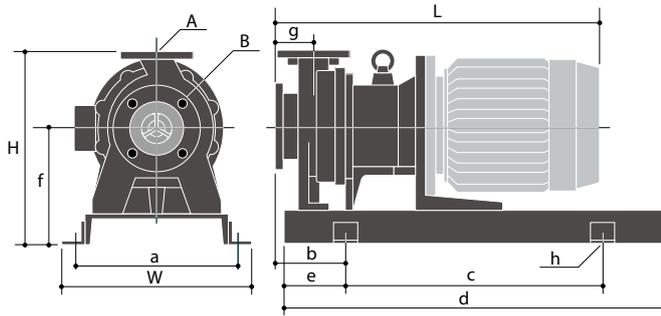
- Liquid temperature range: 0 to 80°C (varies depending on fluid quality)
- Pump pressure limit: 1.0 MPa
- Standard motor: 3-phase, TEFC, outdoor, flange mount type
- Standard paint color: Blue-black C75-20B
- Please inquire separately regarding corrosion resistance.

Performance Curves

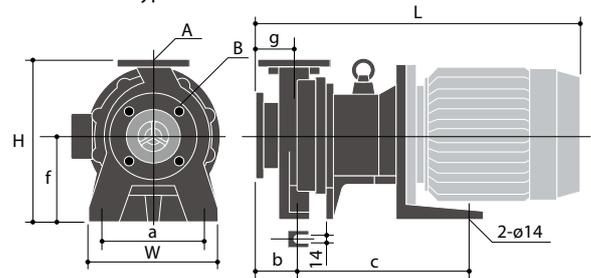


Dimensions in mm

With base type



Without base type



With base type

Model	Motor	W	H	L	a	b	c	d	e	f	g	h	A	B	Mass kg
AMP40-1	3.7kW	400	410	(625)	350	150	540	(800)	(130)	250	80	4-ø19	40A	50A	115
	5.5kW			(689)											135
	7.5kW														
AMP50-1	3.7kW	400	410	(625)	350	150	540	(800)	(130)	250	80	4-ø19	50A	65A	115
	5.5kW			(689)											135
	7.5kW														
AMP65-1	5.5kW	400	430	(709)	350	170	540	(800)	(130)	250	100	4-ø19	65A	80A	145
	7.5kW														
	11kW	480	500	(872)	430	190	600	(900)	(150)	320					210
	15kW														220
	18.5kW ^{Note}														230

Note : 60Hz only

• The dimensions may differ with the type of motor installed.

Without base type

Model	Motor	W	H	L	a	b	c	f	g	A	B	Mass kg		
AMP40-1	3.7kW	280	340	(625)	220	90	285	180	80	40A	50A	85		
	5.5kW			(689)								105		
	7.5kW											110		
AMP50-1	3.7kW	280	340	(625)	220	90	285	180	80	50A	65A	90		
	5.5kW			(689)								110		
	7.5kW													
AMP65-1	5.5kW	280	360	(709)	220	110	365	180	100	65A	80A	120		
	7.5kW													
	11kW	410	(872)	220	110	450	2230	100				65A	80A	165
	15kW													175
	18.5kW ^{Note}													185

Note : 60Hz only

• The dimensions may differ with the type of motor installed.

Optional Accessories

Pump Protector DRN Series

Detects Unusual Pump Operating Conditions Including Dry-Running and Overload

The DRN model protects equipment (including pumps) from damage!

Minimizes production downtime.

Identifies possible causes of alarms so they can be investigated and addressed.



• For details, please refer to the separate catalog.

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 **Caution for safety use:** Before use of pump, read instruction manual carefully to use the product correctly. Actual pumps may differ from the photos. Specifications and dimensions are subject to change without prior notice. For further details please contact us.

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