

# KC Series

SELF - PRIME OPTION

## MagPrime Chamber

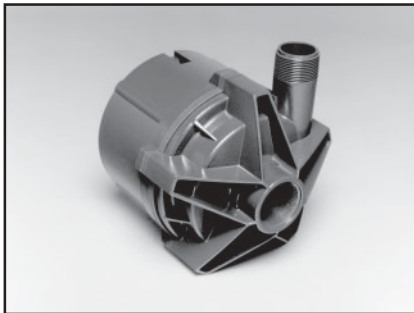
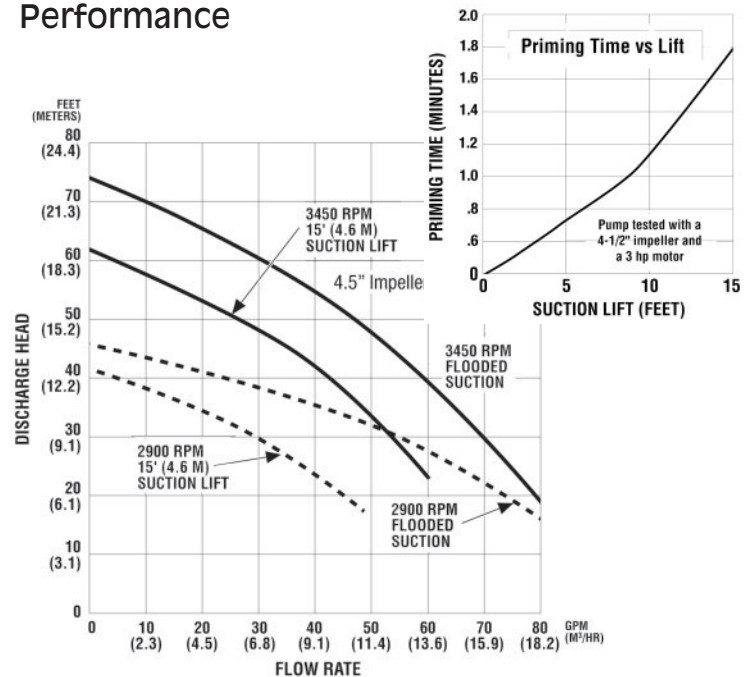


The MagPrime is a one-piece, molded high density polyethylene module which offers flexibility and self-prime operation to the KC 11 sealless magnetic drive pumps.

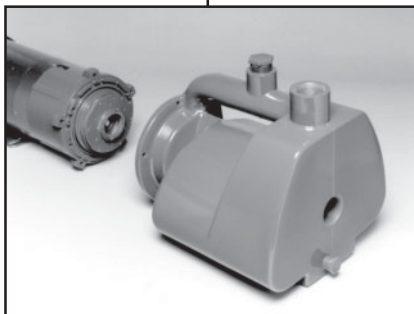
### Features

- Quick connect to KC 1145
- 15 ft. (4.5 m) lift in 2 minutes
- Locates above the liquid source
- Up to 1.4 specific gravity
- Temperature to 120°F (49°C)
- Excellent corrosion resistance
- Reduced maintenance

### Performance



**MODULAR  
TECHNOLOGY**



### Operation

- The MagPrime is connected to a KC 1145.
- A small amount of liquid is poured through the fill port to initially prime the chamber.
- The pump is started. Recirculating liquid creates a vacuum in the suction line, drawing air from the suction line and releasing it through the discharge outlet.
- When the liquid in the suction line reaches the pump inlet, the pump is "primed," and normal operation begins.

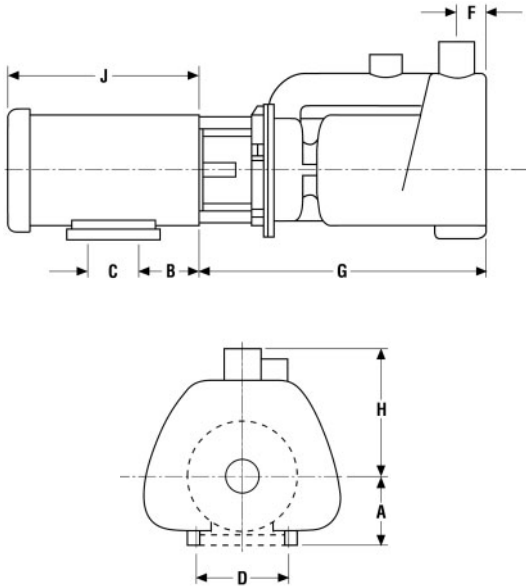
# Specifications

MODEL (CONSTRUCTION)	SUCTION DISCHARGE	IMPELLER SIZE		MAX. FLOW		MAX. HEAD		MOTOR DRIVE	
		inch	cm	3450 rpm gpm	2900 rpm m <sup>3</sup> /hr	3450 rpm ft	2900 rpm m	HP	kW
KC1145 (P, V)	1 1/2" FNPT	4-1/2	11.4	68	12.5	61	13	1 - 1.5	.55 - .75
	1 1/4" FNPT	4	10.2	48	9	50	10.5	1 - 1.5	.55 - .75
		3-1/2	8.9	44	8.5	42	9	.75 - 1	.37 - .55
		3	7.6	37	7	29	6	.75 - 1	.37 - .55

P - Polypropylene glass filled, carbon/PTFE, high purity ceramic and viton.

V - PVDF carbon filled, carbon/PTFE, high purity ceramic and viton.

# Dimensions



## With NEMA TEFC Motors (Inches)

MODEL	MOTOR FRAME	A	B	C	D	F	G	H	J*
KC11	56C	4-1/8	2-3/4	3	4-7/8	1-3/4	17	7-5/8	12-1/8
	145TC		5-1/2	5	5-1/2				13-1/4

## With IEC Motors (Millimeters)

MODEL	MOTOR FRAME	A	B	C	D	F	G	H	J*
KC11	80	105	50	100	125	44	432	194	230
	90		56	125	140				250

\*Differ by manufacturer

# Chemical Compatibility

Listed below are a few typical chemical applications for the MagPrime.

Legend:

E - 30 days of constant exposure. No damage detected.

G - Little or no damage after 30 days exposure.

F - Some effect after 7 days of constant exposure.

N - Not recommended for continuous use.

Note: First letter is at 68°F (20°C). The second letter is at 122°F (50°C), e.g. EG.

**Note:** While this information provides a reasonable representation of the effects of chemicals of listed materials, we do not guarantee favorable results and assume no liability in connection with its use.

Chemical	68°F (20°C)	122°F (50°C)
Acetic Acid, 5% .....	E	E
Ammonium Hydroxide, 5% .....	E	E
Chlorine, 10% in air .....	E	F
Acetic Acid, 50% .....	E	E
Ammonium Hydroxide, 30% .....	E	E

Chemical	68°F (20°C)	122°F (50°C)
Chlorine, 10% moist .....	E	E
Chromic Acid, 50% .....	E	E
Formaldehyde, 10% .....	E	E
Glacial Acetic Acid .....	E	E
Hydrochloric Acid, 35% .....	E	E

Chemical	68°F (20°C)	122°F (50°C)
Hydrofluoric Acid, 45% .....	E	E
Nitric Acid, 50% .....	G	N
Sodium Hydroxide, 50% .....	E	E
Sulfuric Acid, 98% .....	G	G



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