Why should you care? Pumps alone cannot save you!!

Stopping or slowing the incoming water is critical to saving your vessel. This chart shows how your pump is quickly overwhelmed by a fairly small hole or breach.

A 1.5” hole in your boat, only 2 feet below the waterline would fill a 50 gallon drum in 50 seconds. This is 2x what a many bilge pumps can handle.

And 50 gallons weighs over 400 pounds of lost flotation.

BOAT FLOODING RATES (gallons per minute) & BILGE PUMP OVERLOAD FACTOR							
DEPTH OF HOLE BELOW WATERLINE	DIAMETER OF OPENING (HOLE)						
	1" (25mm)	1.5" (38mm)	2" (51mm)	2.5" (64mm)	3" (76mm)	3.5" (89mm)	4" (102mm)
1' (30cm) 1600 GPH Pump = 26 GPM	20	44 1.7x	79 3x	123 4.7x	177 6.8x	241 9.3x	314 12.1x
2' (61cm) 2000 GPH Pump = 33 GPM	28	62 1.9x	111 3.4x	174 5.3x	250 7.6x	340 10.3x	444 13.5x
3' (91cm) 2000 GPH Pump = 33 GPM	34	77 2.3x	136 4.1x	213 6.5x	306 9.3x	417 12.6x	544 16.5x
4' (1.2m) 2000 GPH Pump = 33 GPM	44	99 3x	176 5.3x	274 8.3x	395 12x	538 16.3x	702 21.3x

BOAT FLOODING RATES (liters per minute) & BILGE PUMP OVERLOAD FACTOR							
DEPTH OF HOLE BELOW WATERLINE	DIAMETER OF OPENING (HOLE)						
	25mm	38mm	50mm	65mm	75mm	90mm	100mm
30cm 6000 LPH Pump = 100 LPM	76	167 1.7x	299 3x	466 4.7x	670 6.7x	912 9.1x	1189 11.9x
60cm 7600 LPH Pump = 127 LPM	106	235 1.8x	420 3.3x	659 5.2x	946 7.5x	1287 10.1x	1681 13.2x
90cm	129	291 2.3x	515 4.1x	806 6.3x	1158 9.1x	1579 12.4x	2059 16.2x
1.2m	167	375 3x	666 5.2x	1037 8.2x	1495 11.8x	2037 16x	2657 20.9x