



# HOW TO... SELECT THE RIGHT CS OVERFLOW

If you need help selecting the right CPR CS Overflow for your fish tank, follow these easy steps:

**If the tank is already set-up and you have not purchased your return pump:**

- 1) Measure the distance available between the tank and the wall. (Refer to the chart below)
- 2) Determine the amount of flow you want to achieve through your sump and filter. (See below)
- 3) Choose a pump that will provide the desired amount of flow. Be sure to account for the resistance that the pump is working against head pressure. Use the head pressure loss chart provided on the pump packaging to estimate the resulting flow rate.

\* Estimating head pressure: Head pressure is measured in feet, so for a rough estimate of head pressure, start by measuring the vertical height from your pump to the top rim of your aquarium (or to the place where the return outlet is located). Then, for each 90 degree turn, add 1-2 more feet to your total. Do not forget to count the turns required to get the water back into the tank. Any reduction in the return line will also add to the total head pressure. Ask your retailer for help suggesting the best pump for your system.

- 4) Once you have selected your pump, choose the corresponding CS Overflow unit that best matches the flow rate you have selected. Be sure not to choose a CS Overflow that has a flow rate that is less than the flow rate of your pump (once head pressure is accounted for).

**If you have already purchased your return pump:**

- 1) Determine the flow rate of the pump that you already have. Do not forget to account for head pressure (see above).
- 2) Choose the corresponding CS Overflow unit for the flow rate that you will be running. Be sure not to choose a CS Overflow that has a flow rate that is less than the flow rate of your pump (once head pressure is accounted for).

| CS MODEL | FLOW RATE | RECOMMENDED TANK SIZE | DEPT H BEHIND TANK | WIDTH   |
|----------|-----------|-----------------------|--------------------|---------|
| CS50     | 300GPH    | UP TO 60 GALLONS      | 3 7/8"             | 6"      |
| CS90     | 600GPH    | UP TO 125 GALLONS     | 4 3/8"             | 7 1/4"  |
| CS100    | 800GPH    | UP TO 175 GALLONS     | 4 1/2"             | 9 3/8"  |
| CS102    | 1200GPH   | UP TO 250 GALLONS     | 4 1/2"             | 9 3/8"  |
| CS202    | 1500GPH   | UP TO 300 GALLONS     | 6 1/8"             | 9 3/8"  |
| CS150    | 1600GPH   | UP TO 350 GALLONS     | 6 1/8"             | 9 3/8"  |
| CS302    | 3000GPH   | UP TO 500 GALLONS     | 6 3/8"             | 12 1/4" |

*\*Check with your local fish store for return pump options*



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