

Product Sizing

Tech Bulletin
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**Kristar
FloGard
+PLUS®
Catch Basin
Insert Filter**



See product specifications for standard model details



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How to Size a FloGard® Series Catch Basin Insert Filter

- Determine peak runoff volume and flow rate for given area according to Rational Method or other locally approved procedure. Locate and size catch basin accordingly.**
- Measure:**
 - Inside dimensions of catch basin (length & width) below grate for flat grated or combination inlets, or curb opening (length) below apron for curb inlets.**
 - Outside dimensions of grate (length & width) for flat grated or combination inlets, and note type and local or state standard type if available. Grate thickness or profile at the edges should also be noted.**
 - Note inlets other than surface inlet that may require additional filtration.**
 - Note clearance depth from bottom of grate to crown of the outlet.**
- Compare catch basin dimensions and grate dimensions to FloGard +Plus® Flow Sizing Chart or general specifications. Choose standard model with dimensions no greater than the cited Inlet ID and Grate OD dimensions. If dimensions for flat grated inlets vary from the standard specifications by more than 1 inch, consider use of wall mount model, or consult Kristar.**
- For clearance depths more than 18", the FloGard Plus® insert filter is generally appropriate. Clearance depths between 8"-18" require modification of the filter liner, or use of a standard FloGard® insert filter. Consult Kristar for situations where clearance depth is less than 8".**
- Compare the Filtered Flow Capacity of the chosen insert filter with the target mitigation flow rate (first flush), typically 10-15% of the peak flow rate at a given site. The Filtered Flow Capacity for the insert filter should exceed the target mitigation flow rate. If not, increase the size of the catch basin inlet to accommodate a larger insert filter.**
- Compare the Total Bypass Capacity of the chosen insert filter with the peak design flow for the inlet. The Total Bypass Capacity for the insert filter should exceed the peak design flow. If not, increase the size of the catch basin inlet to accommodate a larger insert filter.**
- Questions? Call Kristar Enterprises at (800 579-8819).**