

AQUASTAR®

pool products
VGB SERIES

SUBMERGED, SINGLE OR MULTIPLE UNBLOCKABLE SUCTION OUTLET

IMPORTANT SAFETY INSTRUCTIONS FOR

Model # FCxxx - FULL CIRCLE DRAIN

(xxx = COLOR SUFFIX)

MEETS OR EXCEEDS ANSI/APSP 16-2011
ANTI-ENTRAPMENT/ANTI-VORTEX



READ AND FOLLOW ALL INSTRUCTIONS

▲ WARNING!

IMPROPER INSTALLATION OR USE OF THIS PRODUCT MAY PRESENT A RISK OF HAIR OR BODY ENTRAPMENT AND DROWNING. Install this equipment in accordance with the instructions provided. Use only with the components and mounting hardware provided. FAILURE TO FOLLOW THESE INSTRUCTIONS AND/OR USE WITH COMPONENTS NOT PROVIDED BY AQUASTAR POOL PRODUCTS AND INTENDED TO BE USED WITH THIS PRODUCT MAY RESULT IN IMPROPER POSITIONING OR FUNCTIONING OF SUCTION OUTLET AND MAY CAUSE SEVERE PERSONAL INJURY OR DEATH.

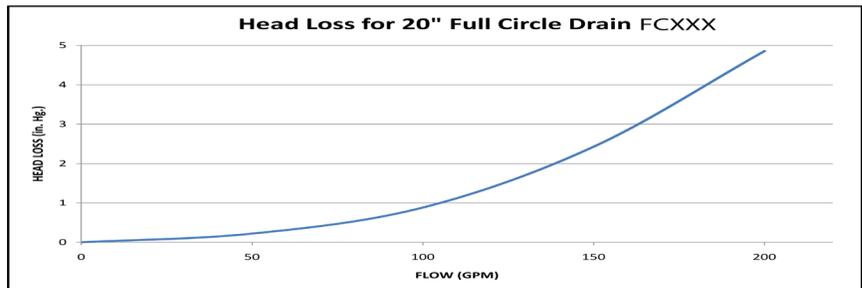
SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

- If in doubt about the rating and/or head loss curve of your system, consult a qualified pool or spa professional and/or your respective equipment manufacturer(s). Also, double check with your local building/health authorities regarding single vs. multiple drain installations, etc.
- A minimum 2" diameter of connecting pipe is required, pending velocity and GPM calculations. The larger, the better! DO NOT exceed maximum flow rate(s) of cover or pipe(s) flow rate(s), whichever is less.
- Replace cover and screws within 5 years.
- **SPECIAL NOTES:**
 - Pool finish should never exceed top of sump.
 - Taper pool finish down and away from top (or lower) of sump.
 - Top of grate should never be installed lower than the pool finish.

ALL MODELS LISTED BELOW = ANTI-ENTRAPMENT/ANTI-VORTEX AND FOR SINGLE OR MULTIPLE USE

MAX FLOW RATES (PER OUTLET)
MOUNTING POSITIONS (xxx=COLOR SUFFIX)

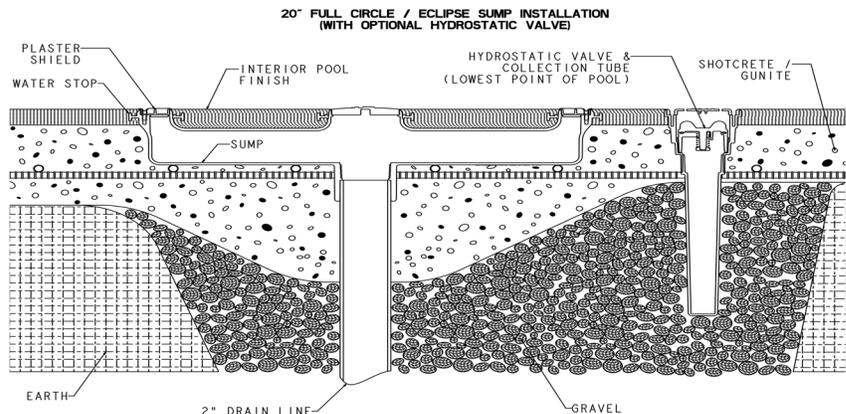
Model	FCxxx (min 2" pipe size)
Floor	158 GPM @ 1.2 fps
Wall	NA



FULL CIRCLE MANUFACTURED SUMP INSTALLATION (SINGLE PORT)

IMPORTANT

- Single or Multiple drain use.
- Model: FCxxx
- NOTE: Disposable plaster shield and center plaster cap included to prevent debris from entering sump and to retain shape during pool finish, **MUST BE REMOVED** and replaced with mfr. supplied drain cover and center logo cap with markings and screws installed **before startup**. (Pierce with a sharp object and pull out to remove)



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▲ **WARNING! SUCTION ENTRAPMENT HAZARD**

INCREASING PUMP SIZE WILL INCREASE FLOW. When in doubt, consult your pool and spa professional. NEVER use a pool or spa that has a missing or broken suction outlet cover. USING A POOL OR SPA WITH A MISSING OR BROKEN SUCTION OUTLET COVER CAN RESULT IN HAIR OR BODY ENTRAPMENT WHICH CAN CAUSE SEVERE BODILY INJURY OR DEATH. THE VACUUM IN SUCTION OUTLETS AND/OR SUCTION OUTLET COVERS WHICH ARE DAMAGED, BROKEN, CRACKED, MISSING OR UNSECURED CAN CAUSE SEVERE INJURY AND/OR DEATH DUE TO THE FOLLOWING ENTRAPMENT HAZARDS: HAIR ENTRAPMENT – Hair can become entangled in suction outlet cover. LIMB ENTRAPMENT – A limb inserted into an opening of a suction outlet sump or suction outlet cover that is damaged, broken, cracked, missing or not securely attached can result in a mechanical bind or swelling of the limb. BODY SUCTION ENTRAPMENT – A negative pressure applied to a large portion of the body or limbs can result in an entrapment. EVISCERATION/DISEMBOWELMENT ENTRAPMENT – A negative pressure applied directly to the intestines through an unprotected suction outlet sump or suction outlet cover which is damaged, broken, cracked, missing, or unsecured can result in evisceration/disebowelment entrapment. MECHANICAL ENTRAPMENT – There is a potential for jewelry, swimsuit, hair decorations, finger, toe or knuckle to be caught in an opening of a suction outlet cover resulting in mechanical entrapment.

▲ **WARNING! TO REDUCE THE RISK OF ENTRAPMENT HAZARD**

Suction fittings shall not be located on seating areas or on the backrest for such seating areas. The maximum system flow rate shall not exceed the flow rating of any listed (per ANSI/APSP 16-2011) suction outlet cover installed. Never use pool or spa if any suction outlet component is damaged, broken, cracked, missing or not securely attached. Replace damaged, broken, cracked, missing or not securely attached suction outlet components immediately.

Use gray medium set glue when attaching PVC pipe to our PVC based sumps. Do not ever use blue glue or related hot glues, clear glues or any fast setting cement.

WARNING! – Failure to remove pressure test plugs and/or plugs used in winterization of the pool/spa from the suction outlets can result in an increased potential for suction entrapment as described above.

WARNING! – Failure to keep suction outlet components clear of debris, such as leaves, dirt, hair, paper and other material can result in an increased potential for suction entrapment as described above.

WARNING! – Suction outlet components have a finite life, the cover/grate should be inspected before each use of facility and replaced at least every five (5) years or if found to be damaged, broken, cracked, missing, not securely attached or missing screws. DO NOT use facility until corrected!

As the manufacturer, AquaStar Pool Products, Inc., hereby certifies that their suction outlet and drain covers meet or exceed the requirements of the Virginia Graeme Baker Pool & Spa Safety Act, VGB 2008 and ANSI/APSP 16-2011 standards and safety regulations as set forth by the Consumer Products Safety Commission. A copy of this certificate of compliance is available on AquaStar Pool Products Inc.'s website under news & information: www.aquastarpoolproducts.com

A Safe Drain is No Accident™

