

MAIN DRAIN COVER INSTALLATION & SAFETY

(In compliance with the *Virginia Graeme Baker Pool and Spa Safety Act of 2007*)

The ASME A112.19.8-2007 testing standard requires the suction outlet (drain) cover to have the following stamped, embossed or permanently marked in a location that is visible when installed:

- (1) ASME/ANSI A112.19.8-2007 or ASME/ANSI A112.19.8a-2008 certification
- (2) "For Single or Multiple Drain Use", "For Single Drain Use", or "For Multiple Drain Use Only".
- (3) Maximum flow rate in gallons per minute (gpm)
- (4) "Wall Only", "Floor Only", or "Wall and Floor" installations
- (5) Cover life (Example: 3 years)
- (6) Manufacturer name or registered trademark, and model designation

The following main drain covers meet the new testing standards:

Paramount SDX Retro High Flow Safety Drain A/V Cover White

004-192-221-201 (SKU # 32-870): Fits round frames 5" to 10". Can be installed on vertical walls. Stated flow rate is 200 gpm floor, 192 gpm wall. Both at 1.485 fps.



AquaStar Anti-Entrapment Suction Outlet Cover LP8AV101-08 White

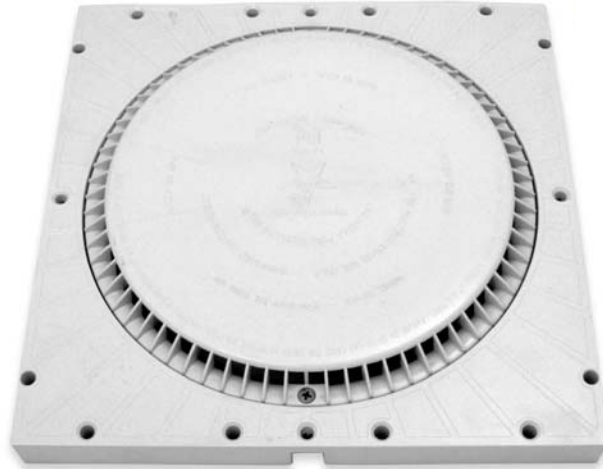
(SKU # 32-828): Retrofits to 8" round frames. This cover replaces the following drains:

- | | | |
|---------------|-----------------------------------|------------|
| ✓ AquaStar | ✓ Custom Molded (CMP) Most models | ✓ Waterway |
| ✓ American | ✓ Pentair | |
| ✓ Color Match | ✓ Triodyne | |

Can be installed on vertical walls. Stated flow rate is 100 gpm @ 4.2 fps floor, 70 gpm @ 2.9 FPS wall . A 10" model that is rated at 206 gpm @ 5.8 fps floor, 96 gpm @ 2.8 fps wall is also available.



AquaStar also offers two retrofit kits for square drains: The **RFS12101 White (SKU # 32-800)** for 12" x 12" (flow rate of 206 gpm floor @ 5.8 fps, 96 gpm wall @ 2.8 fps) and the **RFS9101 White (SKU # 32-808)** for 9" x 9" (flow rate of 88 gpm floor @ 3.2 fps, 70 gpm wall @ 2.6 fps).



AquaStar offers six approved covers for square drains:

- ✓ **SKU # 32-916** (WAV9101 White 9" x 9"). Flow rate of 207 gpm floor @ 1.5 fps. (Fits Pentair shallow frame and Aquastar.)
- ✓ **SKU # 32-924** (RWAV9101 White 9" x 9"). Flow rate of 207 gpm floor @ 1.5 fps. (Fits Hayward, Pac Fab, Sta Rite, American and Waterway - deep frame.)
- ✓ **SKU # 32-932** (WAV12101 White 12" x 12"). Flow rate of 400 gpm floor and wall @ 1.5 fps. (Fits Pentair shallow frame and Aquastar.)
- ✓ **SKU # 32-940** (RWAV12101 White 12" x 12"). Flow rate of 400 gpm floor and wall @ 1.5 fps. (Fits Hayward, Pac Fab, Sta Rite, American and Waterway - deep frame.)
- ✓ **SKU # 32-948** (WAV18101 White 18" x 18"). Flow rate of 775 gpm floor @ 1.5 fps. (Fits Pentair shallow frame and Aquastar.)
- ✓ **SKU # 32-956** (24101 White 24" x 24"). Flow rate of 1444 gpm floor @ 1.5 fps.



Hayward WGX1048E 8" Floor Suction Outlet Cover (SKU # 32-860): This cover has a stated flow rate of 125 gpm @ 4.95 fps. Hayward also offers the **WGX1048EW 8" Wall Suction Outlet Cover (SKU # 32-862)** This cover has a stated flow rate of 72 gpm @ 2.85 fps. Only fits Hayward frames.

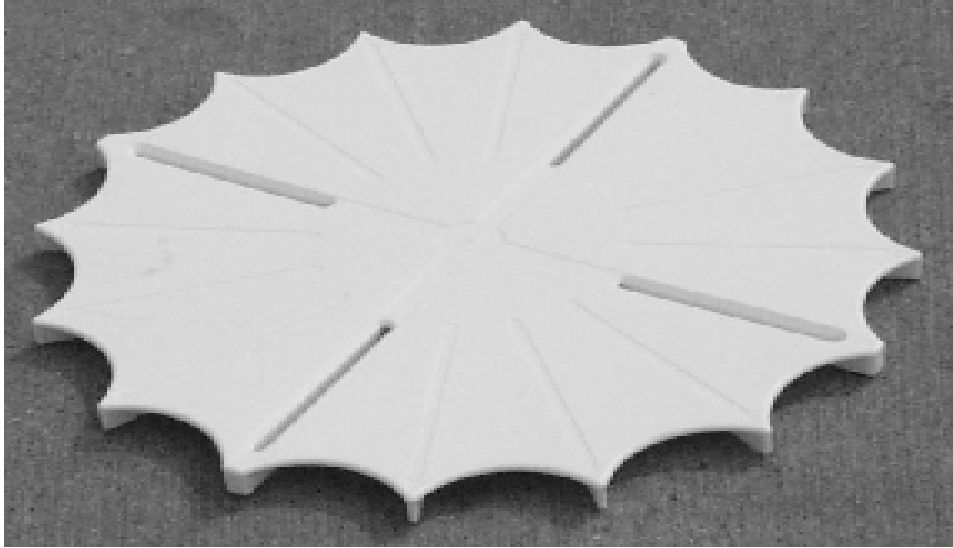


Drainsafe DS-360-M 8" Anti-entrapment Main Drain Safety Cover (SKU # 32-841): This cover fits round frames from 5" to 8". This includes Swim Quip/Pentair/Sta-Rite. Can be installed on vertical walls. Stated flow rate is 123 gpm @ 1.45 fps for floor and walls.



Drainsafe also offers a retrofit kit for 9" x 9" square drains. The **9 x 9 Adapter Kit For DS-360X (SKU 32-842)** has a maximum flow rate of 123 gpm @ 1.45 fps. This model is for HORIZONTAL (FLOOR MOUNT) ONLY.

Star Model 100 Cover (SKU # 32-850): This cover fits any round frame from 5" to 10". **The manufacturer requires that four (4) screws are used for commercial installations** and 2 screws for residential. Can be installed on vertical walls. Stated flow rate is 80 gpm @ 1.5 fps for floor and walls.



Experts recommend three layers of protection to eliminate suction entrapment:

1. A112.19.8-2007 approved covers on all drains
2. Dual hydraulically balanced fully submerged drains for each pump, with drain cover centers a minimum of 3 feet apart. (This may vary per code. Check with the health department for guidance.) If dual drains are installed that do not meet the above requirements, an SVRS or other other device may be required per the Baker Act.
3. SVRS or other device

Please contact your local health department for drain cover selection guidance if local standards require cover velocities of 1.5 feet per second (fps) or less, or if the cover will be installed on a gravity drain system. Even with dual drains, the selected cover must be capable of handling the full flow of the pump in the event of one suction outlet being completely blocked.

Note: The *Virginia Graeme Baker Pool and Spa Safety Act of 2007* is under review by the CPSC. Therefore, it is subject to additional modifications and amendments. **Other approved covers are available.**

THE ASME A112.19.8-2007 TESTING STANDARD REQUIRES THE DRAIN SUMP DEPTH TO BE A MINIMUM OF 1-1/2 TIMES THE PIPE DIAMETER FROM THE END OF THE PIPE TO THE BOTTOM OF THE DRAIN COVER. EXAMPLE: 2" PIPE – DEPTH SHOULD EQUAL 3". (THIS VARIES PER CODE – CHECK LOCAL REQUIREMENTS.) IF THE SUMP DOES NOT MEET THIS STANDARD, CONTACT YOUR LOCAL HEALTH DEPARTMENT FOR GUIDANCE. A REMODEL PERMIT MAY BE REQUIRED.

NOTE: THE CONSUMER PRODUCT SAFETY COMMISSION (CPSC) WILL ALLOW A NEW COMPLIANT COVER THAT FITS SECURELY INTO A PRE-EXISTING SUMP IF THE FLOW RATE DOES NOT EXCEED THE COVER'S MAXIMUM FLOW RATE IN GALLONS PER MINUTE (GPM).

IF THE SUMP IS INCORRECTLY DESIGNED, OR THE FRAME IS CRACKED, YELLOWED OR DAMAGED, DO NOT INSTALL A COVER. REPLACE THE FRAME AND REMODEL THE SUMP IF NECESSARY. THIS ALSO APPLIES TO IMPROPERLY FITTED RETROFIT COVERS. **ALWAYS** INSTALL ALL EQUIPMENT PER THE MANUFACTURER'S SPECIFICATIONS.