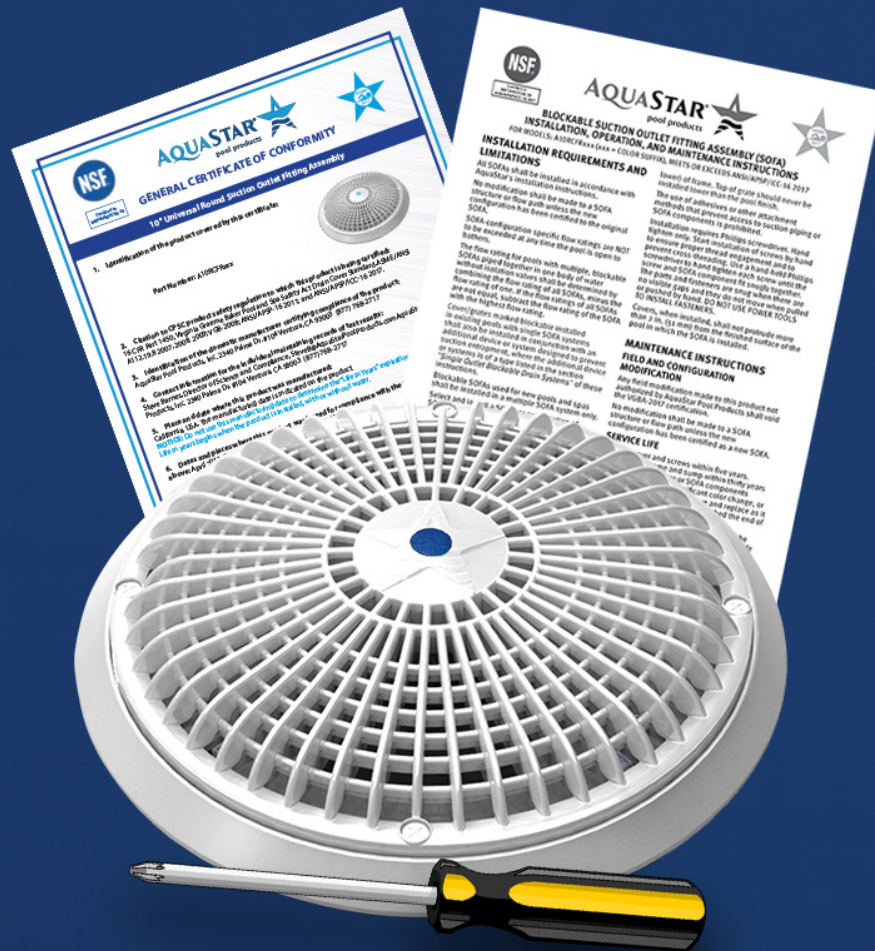




VISUAL REPLACEMENT GUIDE

VGBA 2017 COMPLIANT DRAIN SYSTEMS



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WHAT IS THE VIRGINIA GRAEME BAKER ACT?

The goal of the Virginia Graeme Baker Pool & Spa Safety Act (VGBA) is to eliminate the hazard of swimming pool and spa drain entrapment.

The VGBA is a federal law enacted by Congress and signed by the President on December 19, 2007. The effective date was December 19, 2008. Congress directed the U.S. Consumer Product Safety Commission (CPSC) to protect the public "against unreasonable risks of injuries associated with consumer products." Drain covers are classified as "consumer products" that are regulated by the U.S. Consumer Safety Product Standard ANSI/APSP/ICC-16 2017.

IMPORTANT UPDATES TO VGBA

On May 24, 2021, ANSI/APSP/ICC-16 2017 became the successor drain cover standard to all previous versions of the ASME/ANSI A112.19.8-2007, VGB 2008, and ANSI/APSP-16 2011 standards (collectively known as the VGB 2008 standards). **Manufactured product certified to the newest version will be marked with VGBA 2017.**

Flow rates may have changed

Drain covers manufactured after May 24, 2021 may have different flow rates than before. Some models will have more flow ratings, which are based on pipe size, sump depth, and other factors.

A drain cover's manufacturing date now determines which documentation to use

You must know when a drain cover was manufactured to know which documentation to use. *It's best practice to follow the included instructions.*

VGBA 2017 is a rolling change

Drain covers manufactured before May 24, 2021 that comply with a VGB 2008 standard can still be used, sold, and installed after that date, but must be installed according to their included instructions. These products remain compliant until they expire, are damaged, or if improperly installed.

HOW TO TELL IF AN AQUASTAR DRAIN COVER WAS MANUFACTURED BEFORE OR AFTER MAY 24, 2021

Use the chart below to identify when an AquaStar drain cover was manufactured.

HOW TO IDENTIFY VGB 2008 COVERS

(Use VGB 2008 Documentation)



Example

VGB 2008 Compliance Stamp

On Some Products

Compliance button or emboss that says "VGB 2008"



Example

Manufacturing Date

On Some Products

Dated **BEFORE** "May 24, 2021"

Embossed Words

On All Products

One, or more of the following:
"ASME/ANSI A112.19.8 (2007, 2008a, or 2009b), ANSI/APSP-16 2011, VGB 2008"

Embossed Words

HOW TO IDENTIFY VGBA 2017 COVERS

(Use VGBA 2017 Documentation)



Example

VGBA 2017 Compliance Stamp

On Some Products

Compliance button or emboss that says "VGBA 2017"



Example

Manufacturing Date

On All Products

Dated **AFTER** "May 24, 2021"

Embossed Words

On All Products

The following: "VGBA 2017"

Embossed Words

UNIVERSAL ROUND COVER

The A10 is designed to retrofit nearly all 7" and 10" round mud frames or retrofit over nearly all sumps/frames up to 10" with included concrete anchors.



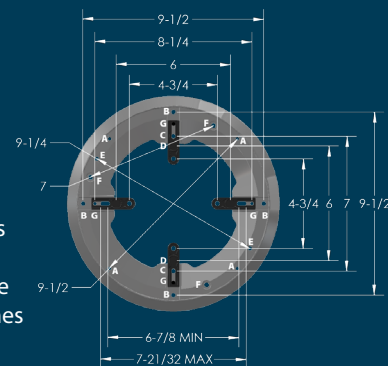
Optional - Brass Anchor Kit
(Model # BIK4) For anchoring cover directly into pool finish.
The A10RCFRxxx includes a plastic anchor kit.



Model #
A10RCFRxxx

Universal Adapter Frame Summary

A - Drain to the adapter
B - Adapter to mud frame
C - 8" standard mud frames
D - 8" off-standard mud frames
E - 10" Waterway mud frames
F - Anchor or paramount frame
G - Slider for off-standard frames



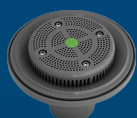
AquaStar's 2022 Visual Drain Cover Replacement Guide

Suggested replacements are designed to fit in/over the existing mud frame. Please ensure that the replacement drain cover has an adequate volumetric flow rating to meet the application's highest flow potential and that the application meets the replacement drain cover's sump depth requirements.

BE A POOL AND SPA PROFESSIONAL!

Always follow and understand AquaStar's installation instructions thoroughly. Compliance with the VGBA and related standards does not stop with the installation of the compliant cover. The existing frame/sump must be in good condition, or it should also be replaced. The sump needs to be at least at each model's required specifications, and the new screws must securely fasten to the frame.

4" ROUND EQUALIZER



4RNDxxx, R4RNDxxx

DISCONTINUED



6HPHAxxx
(6" Round)

SCW1026

Required to Replace

REPLACEMENT

6" ROUND EQUALIZER



6HPxxx

DISCONTINUED



6HPHAxxx

REPLACEMENT

8" ROUND RETROFIT

Designed to replace off-standard 8" round covers
with either a 7^{3/32}", 6", or 4^{3/4}" center-to-center screw hole measurement
A10RCFRxxx universal 10" round cover is designed to fit over 8" off-standard mud frames



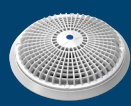
R8HPxxx



RLP8AVxxx



R8MFxxx



A10RCFRxxx

DISCONTINUED

REPLACEMENTS

8" ROUND STANDARD

Designed to replace standard 8" round covers
that have a 7" center-to-center screw hole measurement.
A10RCFRxxx universal 10" round cover is designed to fit over 8" standard mud frames



8AVxxx



8HPxxx



8CCxxx



8AVWRxxx



8FUWxxx



A8xxx



LP8AVxxx

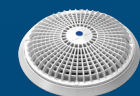


LP8AVWRxxx

DISCONTINUED



8MFxxx



A10RCFRxxx

REPLACEMENTS

10" ROUND STANDARD

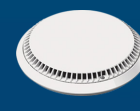
Designed to replace standard 10" round covers
that have a 9^{1/2}" center-to-center screw hole measurement
A10RCFRxxx universal 10" round cover is designed to fit over 10" off-standard and standard mud frames



10CCxxx



10AVWRxxx



10AVRxxx



10FLxxx



10RCFRxxx



10MFxxx



10AVxxx



A10RCFRxxx

DISCONTINUED

REPLACEMENTS

UNIVERSAL SQUARE COVERS

There are primarily two types of mud frames for 9" and 12" square drain covers, and are described as being 3/4" or 1" deep. When replacing, it is important to choose a standard cover for 3/4" deep mud frames or a retrofit cover for 1" deep mud frames. Our universal drain covers come with adapters for both.



Optional - Brass Anchor Kit (Model # BIK4)
For anchoring cover directly into pool finish.



Model #
914xxx



Model #
1216xxx

Retrofits most brands' 9" mud frames. Retrofits over all sumps/frames up to 13" using optional anchor kit.
Both adapters included.



9" Standard
3/4" deep frames



9" Retrofit
1" deep frames



12" Standard
3/4" deep frames

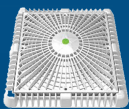


12" Retrofit
1" deep frames

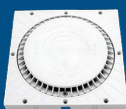
Retrofits most brands' 12" mud frames. Retrofits over all sumps/frames up to 15" using optional anchor kit.
Both adapters included.

9" SQUARE STANDARD

Designed to replace **standard 9" square covers** that have a 8 1/4" center-to-center screw hole measurement
914xxx universal 14" square cover is designed to fit over 9" standard mud frames



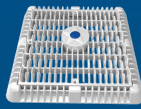
P9xxx



SRFS9xxx



9MFxxx



WAV9WRxxx



WAV9xxx



SUN9WRxxx
SUN9xxx



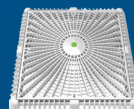
914xxx

DISCONTINUED

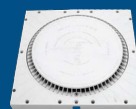
REPLACEMENTS

12" SQUARE STANDARD

Designed to replace **standard 12" square covers** that have a 11 1/4" center-to-center screw hole measurement
1216xxx universal 16" square cover is designed to fit over 12" standard mud frames



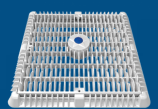
P12xxx



SRFS12xxx



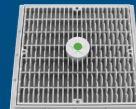
12MFxxx



WAV12WRxxx



SUN12xxx



WAV12xxx



1216xxx

DISCONTINUED

REPLACEMENTS

9" SQUARE RETROFIT

Designed to replace **off-standard 9" square covers** that fit into mud frames that are 1" deep
914xxx universal 14" square cover is designed to fit over 9" off-standard mud frames



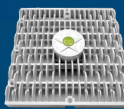
LPRFS9xxx
RFS9xxx



RSUN9xxx



R9MFxxx



RWAV9xxx



914xxx

DISCONTINUED

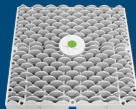
REPLACEMENTS

12" SQUARE RETROFIT

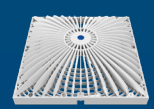
Designed to replace **off-standard 12" square covers** that fit into mud frames that are 1" deep
1216xxx universal 16" square cover is designed to fit over 12" off-standard mud frames



RFS12xxx



RWAV12xxx



R12MFxxx



RSUN12xxx



1216xxx

DISCONTINUED

REPLACEMENTS

14" SQUARE UNIVERSAL (FOR 9" FRAMES)



R914xxx



914xxx

DISCONTINUED

REPLACEMENT

16" SQUARE UNIVERSAL (FOR 12" FRAMES)



R1216xxx



1216xxx

DISCONTINUED

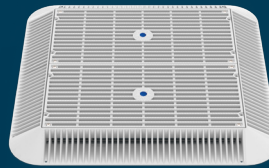
REPLACEMENT

UNIVERSAL 18" SQUARE COVER

There are primarily two types of mud frames for 18" square drain covers, and are described as being 3/4" or 1" deep. When replacing, it is important to choose a standard cover for 3/4" deep mud frames or a retrofit cover for 1" deep mud frames. Our universal drain covers come with adapters for both.



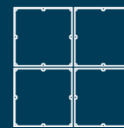
Optional - Brass Anchor Kit (Model # BIK4)
For anchoring cover directly into pool finish.



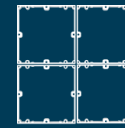
Model #
R1824xxx

Retrofits most brands' 18" mud frames, retrofits over all sumps/frames up to 23" using optional anchor kit.

All three adapters included.



18" Standard
2x2 window grid frames
3/4" deep frames



18" Retrofit
2x2 window grid frames
1" deep frames



18" Retrofit
single frames
1" deep frames

20" FULL CIRCLE



FCxxx

STILL AVAILABLE



FC09xxx
(Drain cover only)

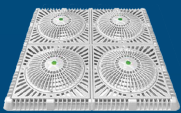
FC08xxx
(Center logo cap only)

FC20xxx
(Drain cover and center cap)

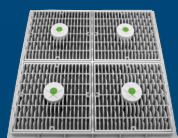
REPLACEMENTS

18" SQUARE STANDARD

Designed to replace standard 18" square 2 x 2 grid cover assemblies that have four 9" square covers with 8 1/4" center-to-center screw hole measurement
R1824xxx universal 18" square cover is designed to fit over 18" standard mud frames

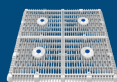


SUNA18WRxxx,
SUNA18xxx

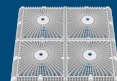


WAV18xxx

DISCONTINUED



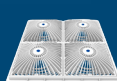
WAV18WRxxx
(With mud frame)



WAV18WRNFxxx
(Without mud frame)



P18xxx
(With mud frame)



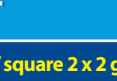
P18NFxxx
(Without mud frame)



SUN18HPHxxx
(With mud frame)



RSUN18HPHxxx
(Without mud frame)



18MFxxx
(With mud frame)



18MFNFxxx
(Without mud frame)

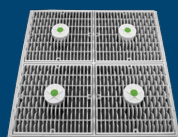


R1824xxx
(Without mud frame)

REPLACEMENTS

18" SQUARE RETROFIT

Designed to replace off-standard 18" square 2 x 2 grid cover assemblies that fit into mud frames that are 1" deep
R1824xxx universal 18" square cover is designed to fit over 18" standard mud frames

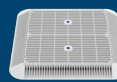


RWAV18xxx

DISCONTINUED



RSUN18HPHRxxx
(Without mud frame)

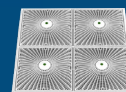


R1824xxx
(Without mud frame)

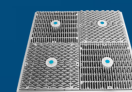
REPLACEMENTS

24" SQUARE STANDARD

Designed to replace standard 18" square 2 x 2 grid cover assemblies that have four 12" square covers with 11 1/4" center-to-center screw hole measurement

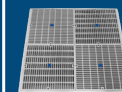


P24xxx



WAV24xxx

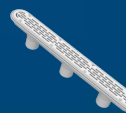
DISCONTINUED



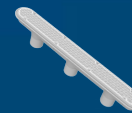
24xxx
(With mud frame)
24NFxxx
(Without mud frame)

REPLACEMENTS

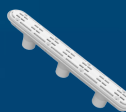
32" CHANNEL DRAIN (GUNITE)



32CDFLxxx



32CDPHxxx



32CDVxxx



32CDLTxxx

STILL AVAILABLE



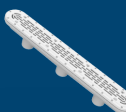
32CDFLNFxxx
(Without mud frame)



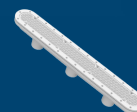
32CDVNFxxx
(Without mud frame)

REPLACEMENTS

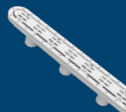
32" CHANNEL DRAIN (VINYL & FIBERGLASS)



32CDFLVxxx
or 32CDFLFGxxx



32CDPHVxxx
or 32CDPHFGxxx

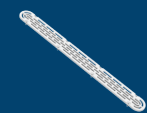


32CDVxxx
or 32CDVFGxxx



32CDLTxxx
or 32CDLTFGxxx

STILL AVAILABLE



32CDFLNFVxxx
(Without sump)

REPLACEMENT

PRODUCT SPECIFICATIONS, FLOW RATES, AND OTHER SUPPORT DOCUMENTS

When selecting a VGBA 2017 compliant suction system, **look up a drain cover's flow rating by using AquaStar's VGBA 2017 Product Specifications that are available online.** Specifications can be accessed by scanning QR codes that can be found on AquaStar's product instructions, cut-sheets, and catalogs or by **visiting www.aquastarpoolproducts.com/flowcode.**

Complying with VGBA 2017 is easy with AquaStar!

FOR COVER SUPPORT DOCUMENTS SCAN QR CODE

Or visit www.aquastarpoolproducts.com/flowcode



6HPHAxxx



R8MFxxx



8MFxxx



A10RCFRxxx



10AVRxxx



10MFxxx



9MFxxx



R9MFxxx



WAV9WRxxx



914xxx



12MFxxx



R12MFxxx



WAV12WRxxx



1216xxx



WAV18WRxxx



P18xxx



SUN18HPHxxx



R1824xxx



RSUN18HPHRxxx



FCxxx



24xxx



32CDFLxxx



32CDAVxxx

HOW TO SIZE AND SELECT VGBA 2017 DRAIN SYSTEMS

When replacing a cover or when replacing a pump, it is **important to ensure the drain system is properly sized and selected.** Please scan the QR code to the right to view a guide to how to size and select drain covers under the new VGBA 2017 standard.



Please scan the QR code
to view important VGBA
2017 information.