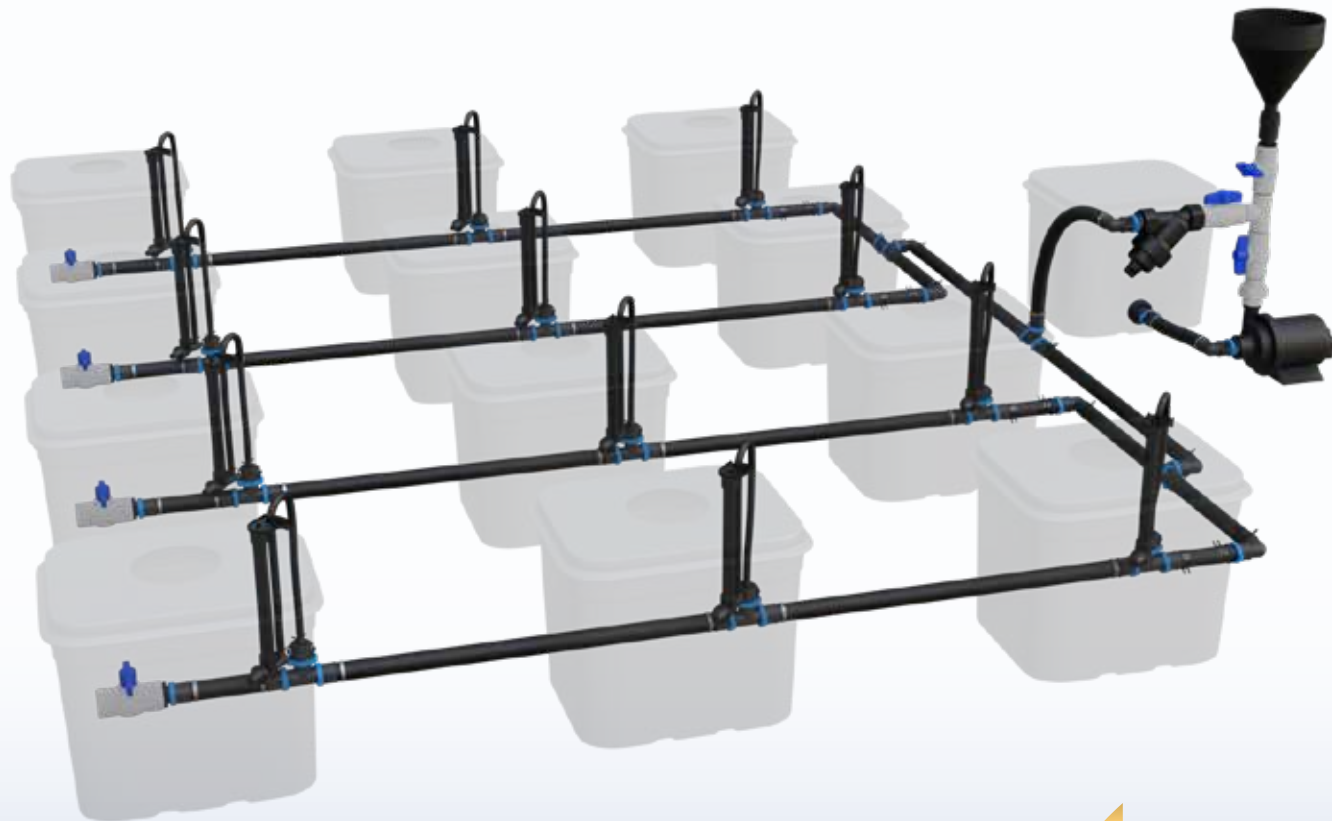


# HydraMax<sup>®</sup> Retrofit

## Installation Guide



**hydra**<sup>®</sup>  
UNLIMITED

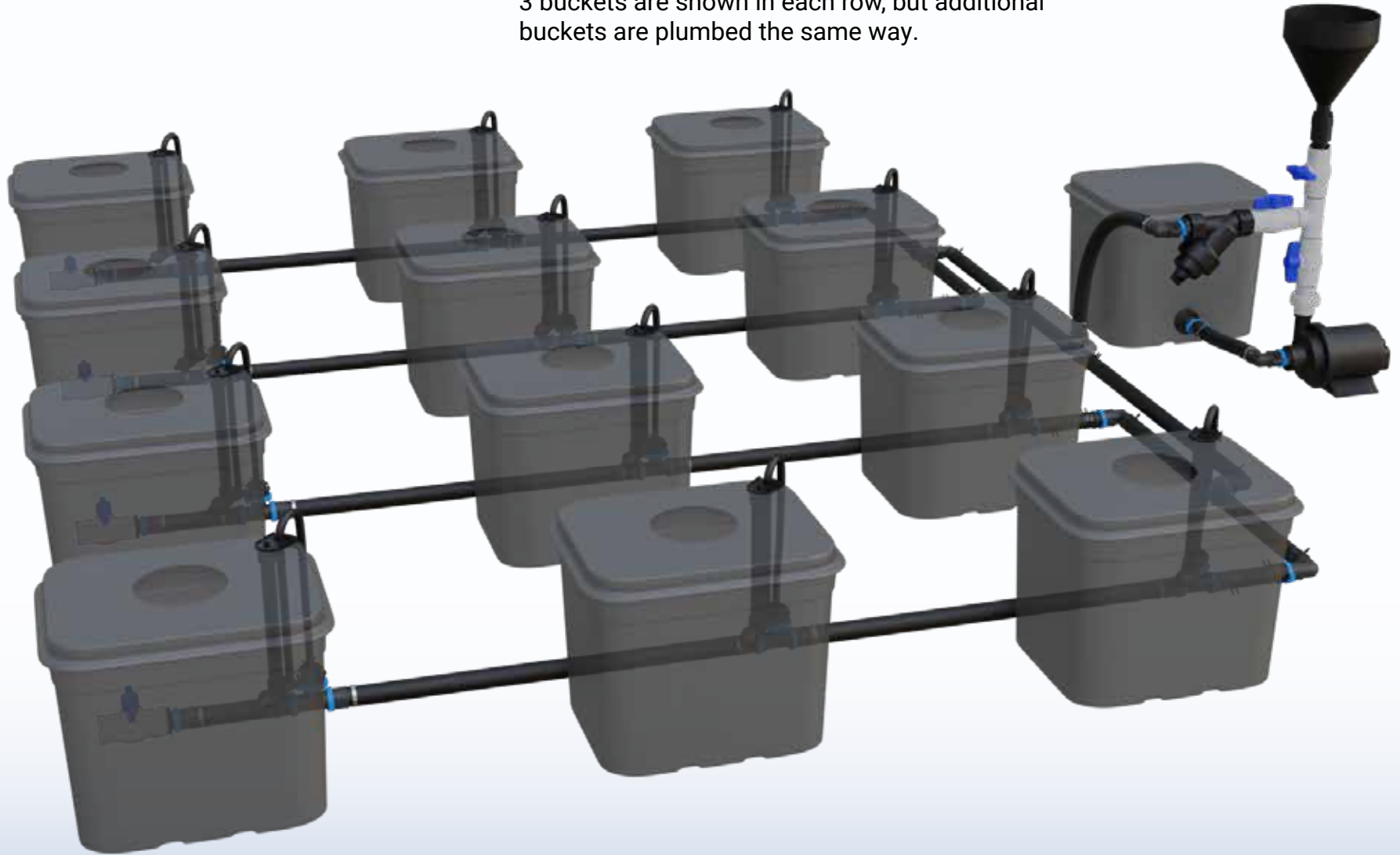
## Welcome

Welcome to the HydraMax Retrofit Guide. These visuals will guide you through the process of adapting HydraMax circulators to your existing DWC setup to enhance your system's efficiency and performance. Let's dive in and boost your hydroponic experience with HydraMax Retrofit!

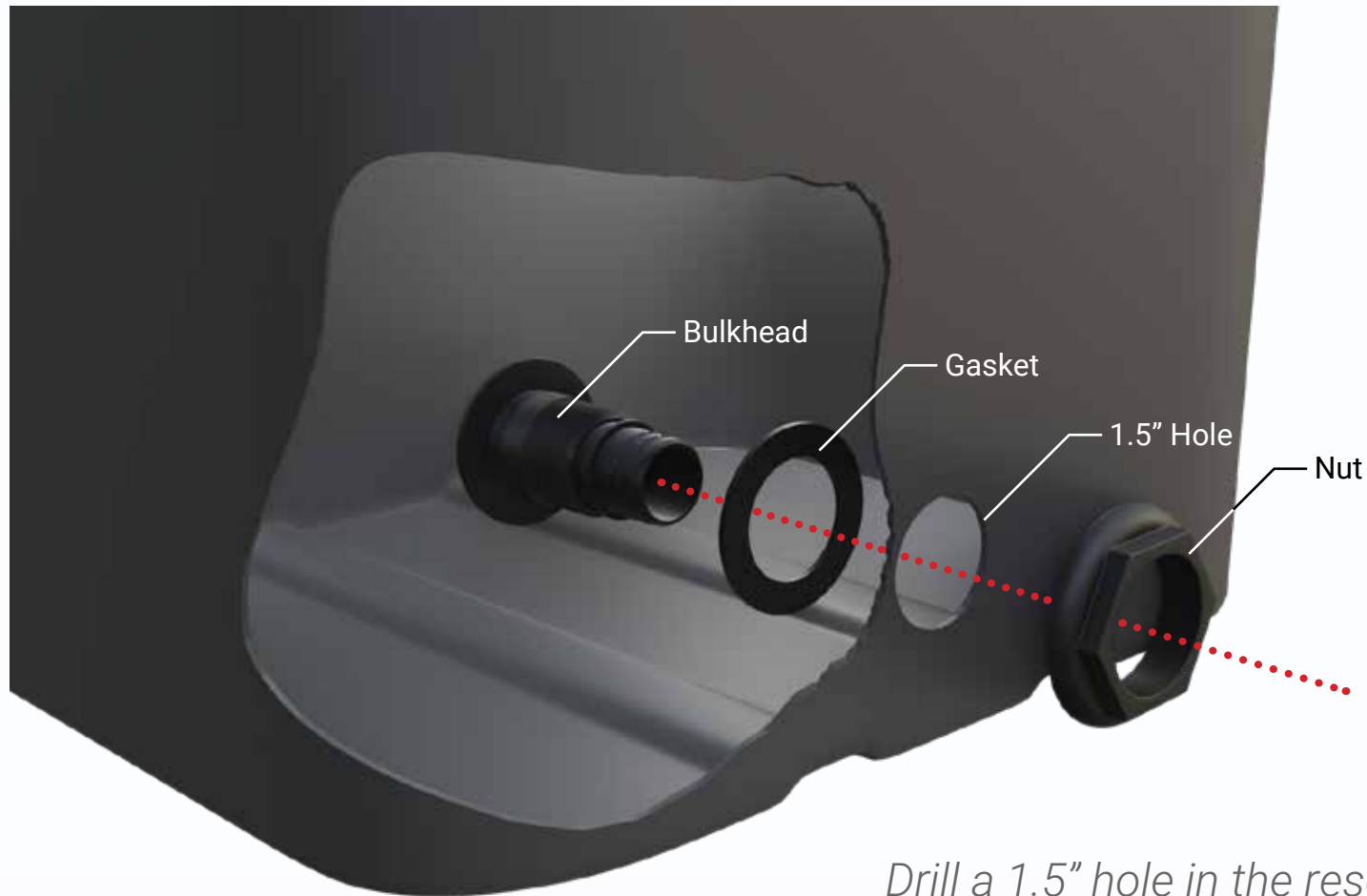


# SYSTEM AT A GLANCE

This is an overview of how a HydraMax Retrofit system is laid out. For clarity purposes, only 3 buckets are shown in each row, but additional buckets are plumbed the same way.



# RESERVOIR BULKHEAD



*Drill a 1.5" hole in the reservoir. Place the gasket over the bulkhead and insert it through the hole from the inside. Tighten the nut securely but do not over-tighten.*

# HEADER ASSEMBLIES

**2-ROW HEADER**  
Page 6



**3-ROW HEADER**  
Page 7

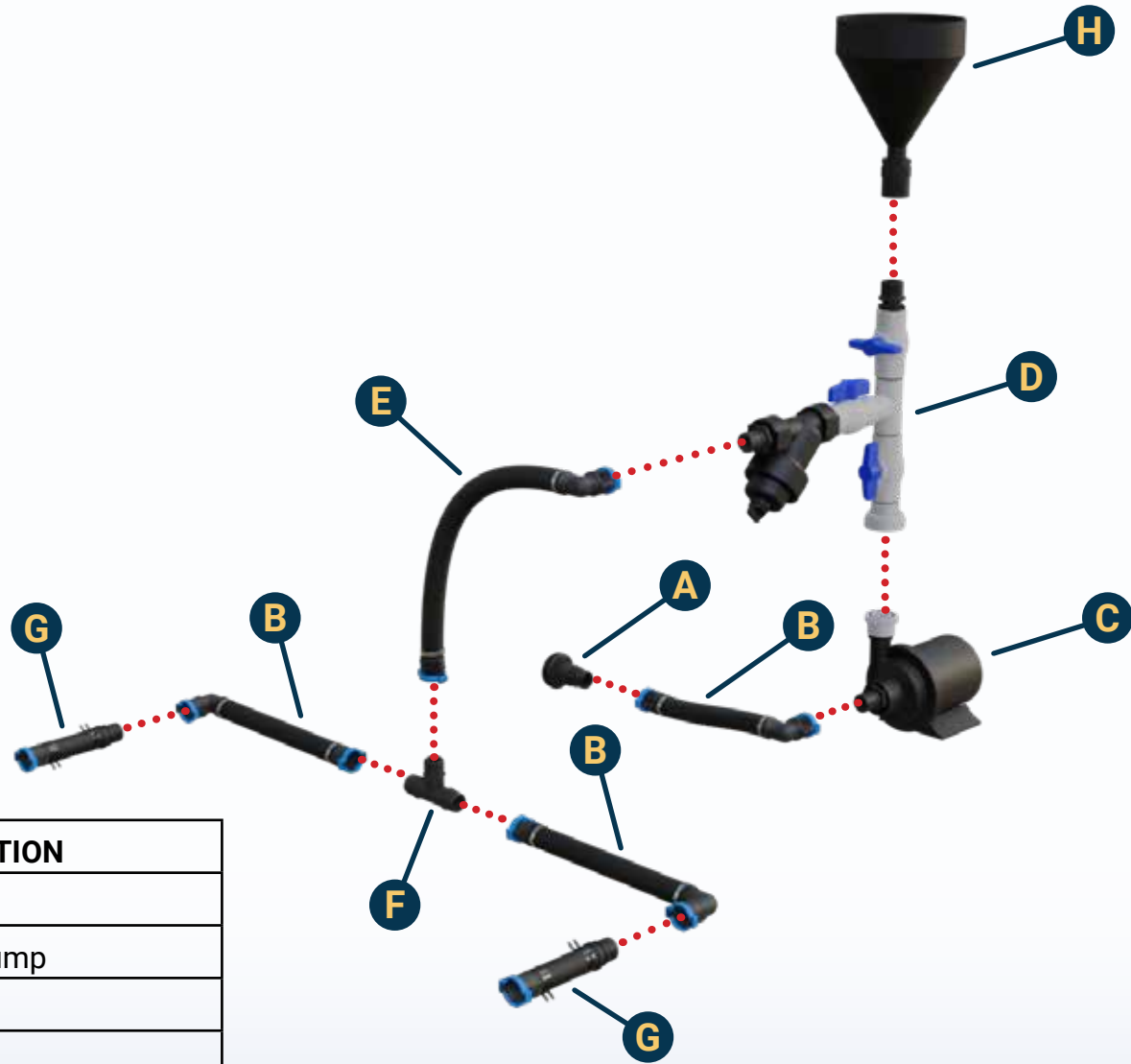


Assembled header assemblies

**4-ROW HEADER**  
Page 8

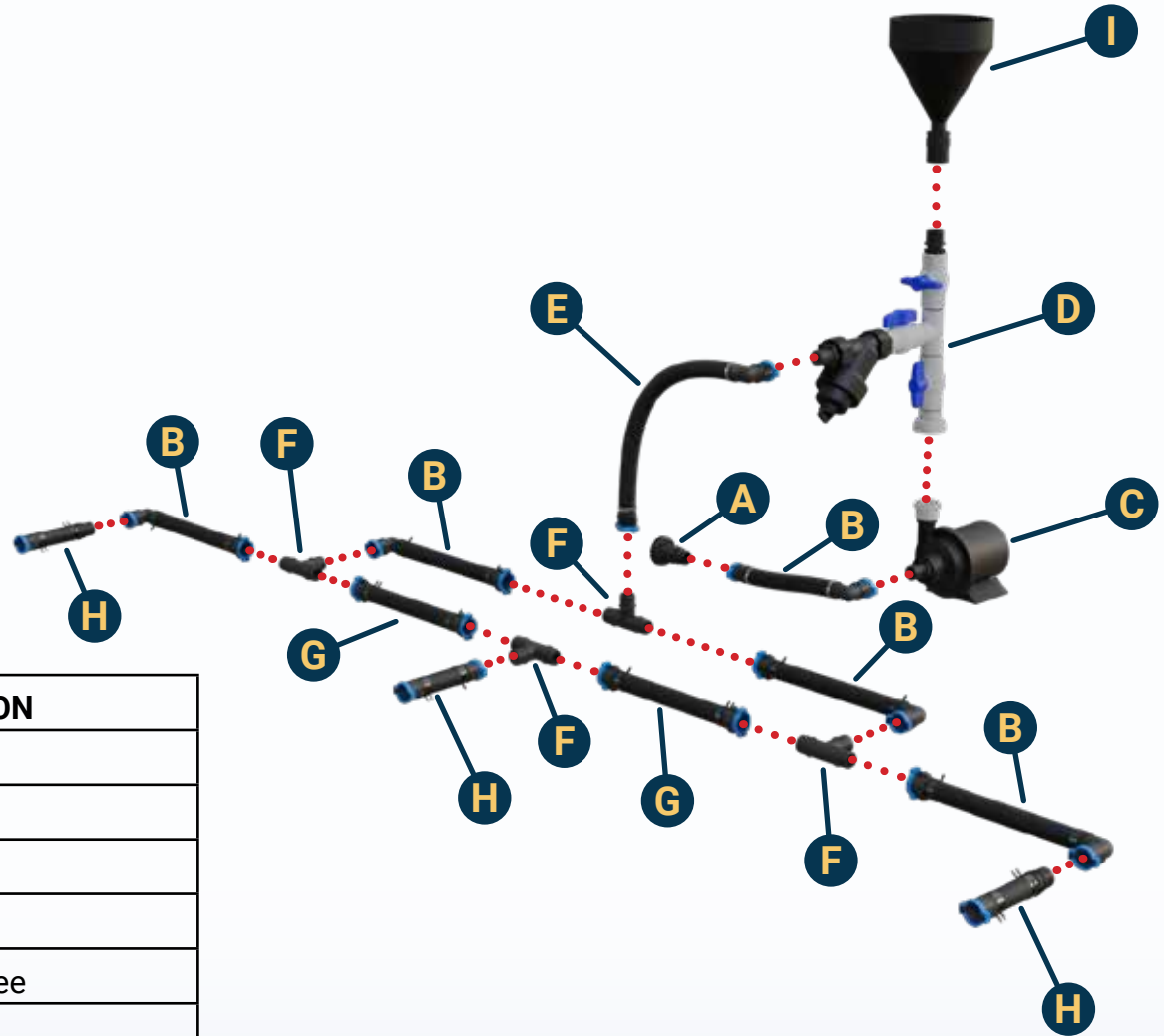


# 2-ROW HEADER ASSEMBLY



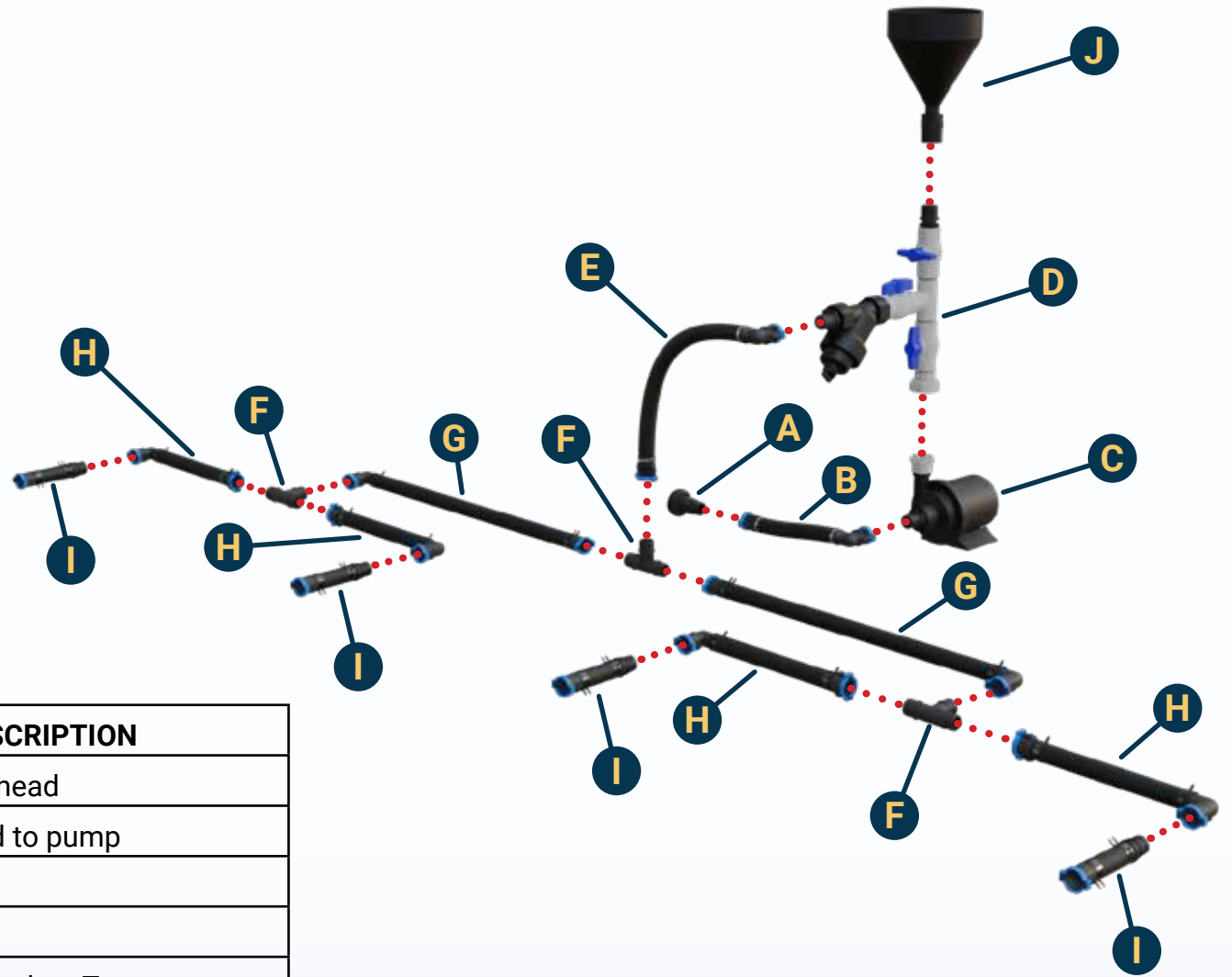
ITEM	DESCRIPTION
A	Reservoir Bulkhead
B	Hose Bulkhead to pump
C	Pump
D	Pump Stack
E	Hose Pump Stack to Tee
F	Tee
G	Hose Straight x Male adapter
H	Dosing Funnel

# 3-ROW HEADER ASSEMBLY



ITEM	DESCRIPTION
A	Reservoir Bulkhead
B	Hose Straight x Elbow
C	Pump
D	Pump Stack
E	Hose Pump Stack to Tee
F	Tee
G	Hose Straight x Straight
H	Hose Straight x Male adapter
I	Dosing Funnel

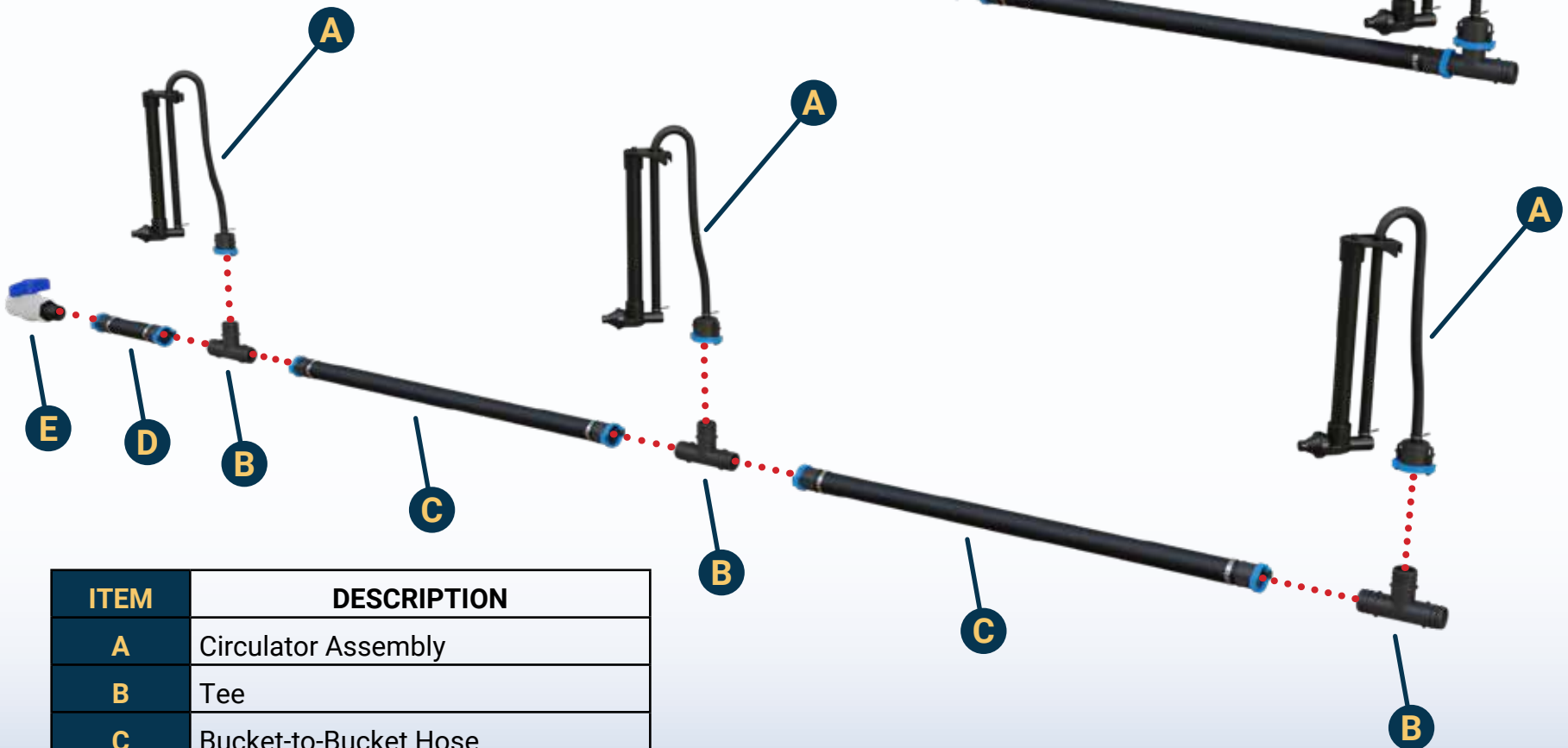
# 4-ROW HEADER ASSEMBLY



ITEM	DESCRIPTION
A	Reservoir Bulkhead
B	Hose Bulkhead to pump
C	Pump
D	Pump Stack
E	Hose Pump Stack to Tee
F	Tee
G	Hose Straight x Elbow - Long
H	Hose Straight x Elbow - Short
I	Hose Straight x Male Adapter
J	Dosing Funnel



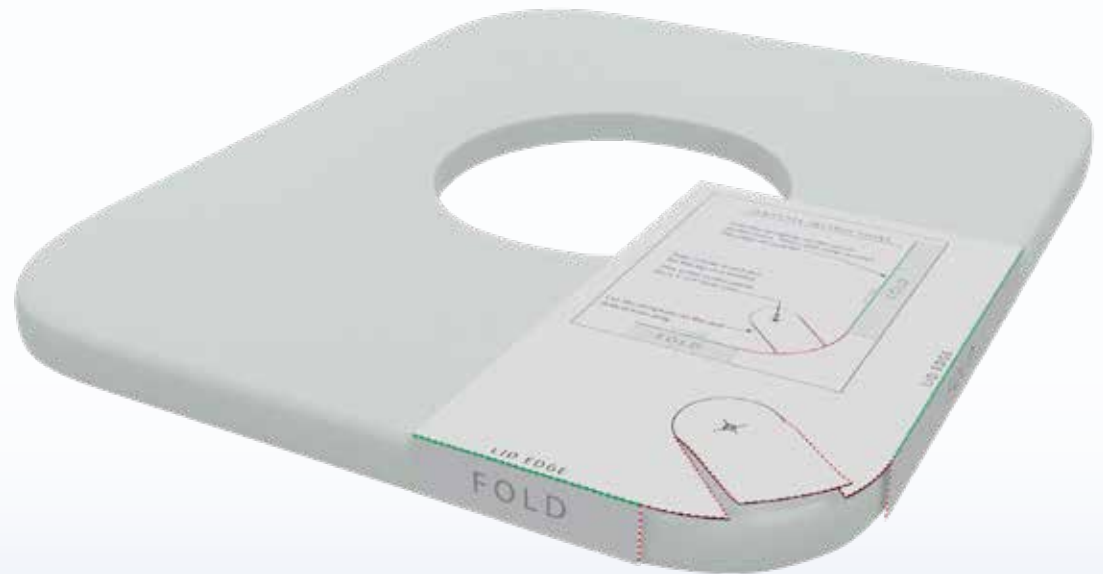
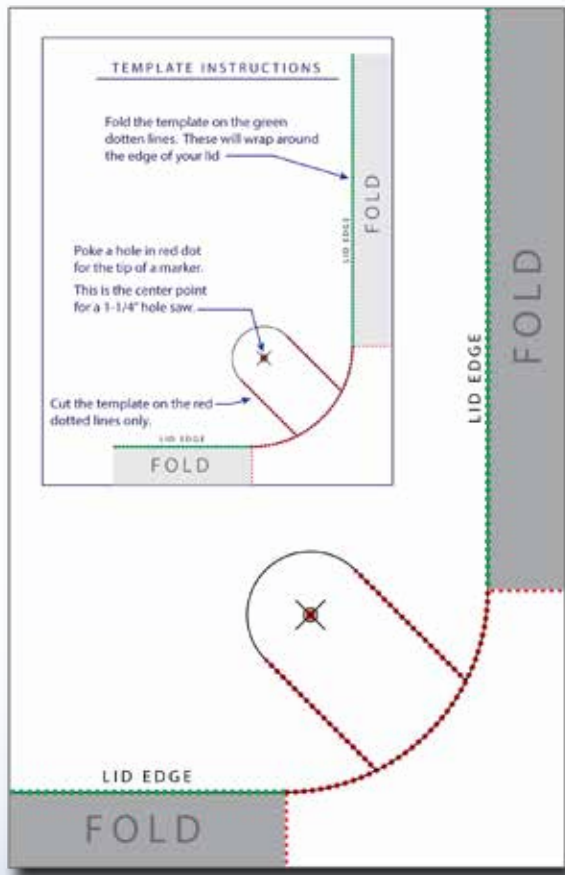
# ROW ASSEMBLY



ITEM	DESCRIPTION
A	Circulator Assembly
B	Tee
C	Bucket-to-Bucket Hose
D	Row End Hose
E	Ball Valve Assembly

# Circulator Lid Modification

The final installation step is to modify your lids to fit snugly around the circulators. A template can be found on the last page of these instructions. After removing the page, cut and fold the template as directed on the template. The template will fit over the corner of your lid as shown below.



**Step 1:** Carefully position the template in the corner of the lid where a circulator will be located. With a marker, mark the location of the center point for the hole saw (figure 25).

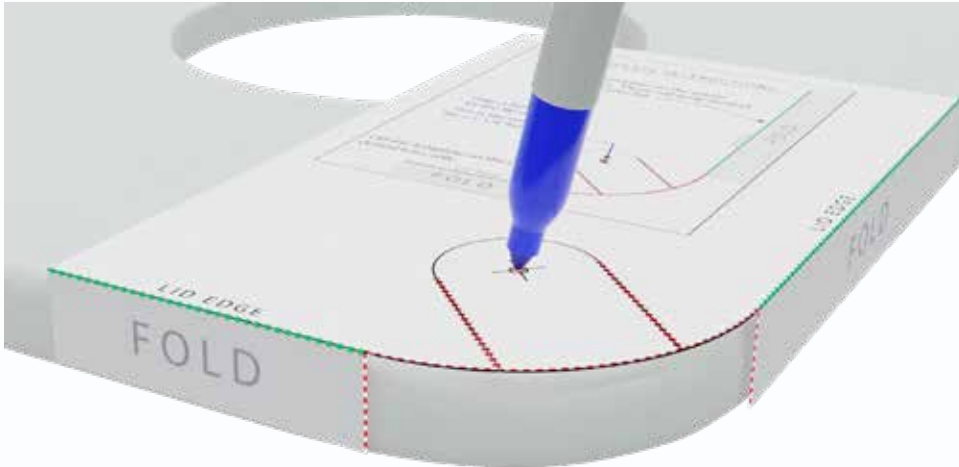


figure 25

**Step 3:** Gently lift the flap on the template and mark the two lines as shown. These will extend from the hole to the edge of the bucket (figure 26).

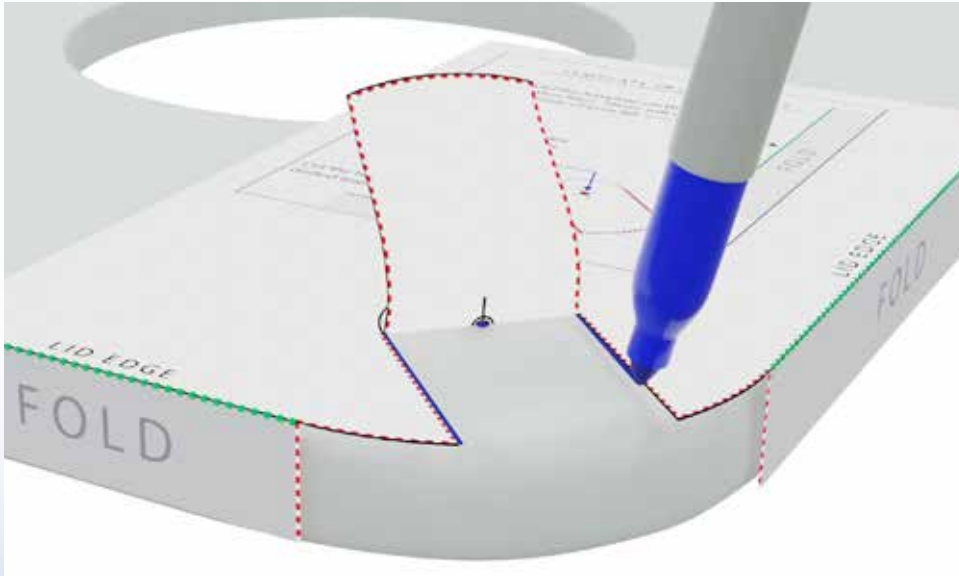


figure 26

**Step 3:** Remove the template. With a 1-1/4" hole saw, drill a hole in the location marked as shown (figure 27).

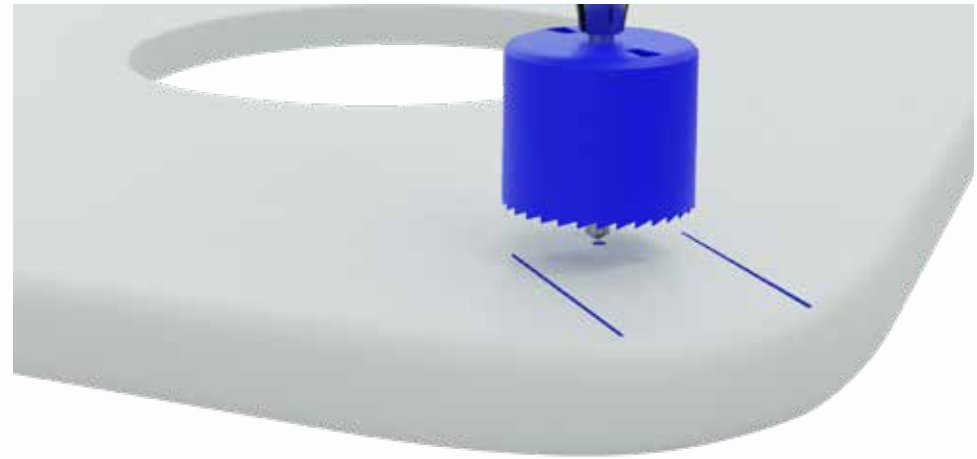


figure 27

**Step 4:** Use a saw to cut along the two parallel lines from sides of the hole through the edge of the bucket (figure 28). Clear the cuts of any burrs with a knife or deburring tool.



figure 28

# PRODUCT GUIDE

