GROVE FOUNTAIN COMPONENTS / CAST IRON KETTLES

Large Tiered Sugar Kettle Fountain

GKTK-LARGE / Package-specific installation and component guide

This guide matches the current fountain components to the Grove kettles in your package. Component inventory is based on the supplied April 14, 2026 BOM and Grove clarifications through November 11, 2026.

Grove kettle	Outside diameter	Overall height	Approx. bare weight
7FT	84 in	30 in	830 lb
4FT	48 in	16 in	245 lb

Grove cast iron kettle dimensions and approximate bare weights are shown above. Bare weights exclude water, equipment and packaging. Keep the matching Grove kettle specification sheets with this guide.

Included components

Item	Package contents
Grove cast iron kettles	7FT + 4FT; interior paint included
Pump	Illumiflow 3,200 GPH standard; upsized to Illumiflow 7,800 GPH with the optional Overflow Sheeting Effect
Upper-kettle support	Steel tiered stand supplied by Grove
Cord exit and sealing	Size B tapered rubber stopper; 3 oz silicone tube
Pump-to-kettle connection	2-inch pump-to-kettle plumbing; single-union check valve, Fernco coupling, PVC and fittings
Standard water effect	Small-bubble adapter assembly with 1.5-inch ball valve
Optional water effect	Overflow Sheeting Effect (+$800): custom diffuser and upsized Illumiflow 7,800 GPH pump

COMPONENTS AND CONNECTIONS

Match before assembly

Keep the supplied plumbing assemblies together. The inventory below identifies nominal fitting sizes; it is not a pipe-cutting plan or a diagram of final joint positions. The pump specification was corrected on November 11, 2026. Match outlet adapters to the supplied 3,200 or 7,800 GPH pump. Verify fit and access before making permanent connections.

Pump and plumbing

Assembly	BOM-matched parts
Pump outlet	2-inch male-thread x slip street elbow L410020
Flow control	2-inch ball valve 2BVS; 2-inch single-union check valve CV82520
Connections	2-inch street elbow L409020; 2-inch Fernco coupling 2FRNS
PVC pieces	BOM lists 2-inch pipe lengths of 2.25, 4.5 and 9 inches
Kettle connection	2-inch male adapters L436020 and 2-inch bulkhead 2BHF
Standard effect	Small-bubble adapter assembly as listed for all tiered kits
Sheeting upgrade	Custom kettle diffuser and upsized Illumiflow 7,800 GPH pump when the +$800 overflow sheeting option is ordered

Large Tiered plumbing does not mean an overflow basin

The Large Tiered BOM refers to GK50F for pump-to-kettle plumbing only. Do not add its buried basin, auto-fill, splash liner or basin supports to the tiered package. The pump and Grove steel upper-kettle stand sit in the lower kettle.

Nominal bulkhead size does not determine the drilled-hole diameter. Use the actual fitting manufacturer’s instructions and Grove’s prepared kettle openings; do not drill from the BOM description alone.

Pump ratings are nominal maximum flow. Delivered flow depends on lift, plumbing resistance and adjustment. Follow the manual for the actual pump label.

INSTALLATION SEQUENCE

Prepare assemble and test

Plan handling and support for the cast iron kettle and the complete operating load. Use appropriate lifting equipment and a qualified installation team. Keep electrical equipment disconnected while handling, plumbing or servicing the feature.

1 Prepare the lower kettle

Plan the full operating load and suitable handling. Position and level the lower kettle on a stable support surface. Keep its service and cord-access points reachable.

2 Fit the Grove steel stand

Place the Grove-supplied upper-kettle steel stand and the correct package pump inside the lower kettle. Check stability and stand seating before lifting the upper kettle.

3 Prepare cord exit and connections

Route the cord through the intended opening and fit the supplied tapered stopper/sealing arrangement. Follow pump and electrical instructions; do not alter the plug or cord. Fit the actual bulkhead/gaskets using their instructions.

4 Connect pump to upper kettle

Use the supplied package-specific plumbing assembly and the adapters matched to the ordered pump. Check the actual pump outlet and fitting compatibility before assembly. Preserve access to the check-valve union and Fernco connection.

INSTALLATION SEQUENCE / CONTINUED

Complete and commission

5 Place the upper kettle

Use suitable lifting equipment to lower the upper kettle onto its steel stand while guiding the plumbing. Keep hands, cords and fittings clear of pinch points. Confirm that the stand, not the plumbing, carries the kettle.

6 Fit the ordered water effect

Use the Illumiflow 3,200 GPH pump with the standard small-bubble adapter. The optional +$800 Overflow Sheeting Effect uses the upsized Illumiflow 7,800 GPH pump and custom diffuser.

7 Level fill and test

Recheck both kettles for level and stability. Fill the system as required for pump operation, inspect for leaks, adjust the effect and check that the lower kettle captures returning water without exposing the pump intake.

8 Handover

Explain refill checks, flow adjustment, pump/union access, safe shutdown and seasonal maintenance. Keep this guide, both kettle spec sheets and the correct pump instructions with the order.

CARE AND PROJECT RECORD

Keep the installation serviceable

Before starting the pump

Confirm the pump model, electrical supply and water level against the manufacturer instructions. Use the required GFCI protection and suitable electrical installation. Keep controls and connections in their specified locations. Never lift a pump by its cord or run it dry.

Routine care

Check water levels, debris and water return regularly. Disconnect power before reaching into the water or servicing equipment. Clean the intake, prefilter and accessible basin as the equipment instructions require. Keep grates, support components and plumbing accessible; do not bury service access under permanent landscaping.

Winterize the pump, plumbing, basin and auto-fill for the actual equipment and climate. Use the manufacturer's cold-weather instructions rather than assuming that continuous pump operation prevents freeze damage.

Equipment instructions

IllumiFlow owner's manual

Both tiered packages use an Illumiflow pump: 3,200 GPH standard, or 7,800 GPH with optional overflow sheeting. Retain the manual shipped with the actual pump and any optional light/transformer instructions. EasyPro EP-family manuals do not apply.

Installation record

Order: _____ Installed: _____

Pump model / serial: _____

Installer / contact: _____

Support and water-return checks: _____

Owner shown pump access and shutdown: _____

Source control: GKTK-LARGE component mapping from Grove's April 14, 2026 BOMs and November 11 pump correction. Kettle dimensions/weights use Grove approved sheets. Supplier price estimates are not included in this customer guide.