



TopTier™

Floor Standing Burner

Operation, Assembly & Maintenance Manual

Congratulations on your purchase, and thank you for selecting the TopTier™ burner from Blichmann Engineering. We are confident that it will provide you years of service and many gallons of outstanding beer. This manual will familiarize you with the assembly, installation procedures, and use of the TopTier™ burner and accessories.

****** PLEASE READ THOROUGHLY PRIOR TO USE FOR IMPORTANT SAFETY INFORMATION ******

IMPORTANT !!

Danger: Sections labeled "Danger" are critical to follow and understand to reduce risk of serious injury or death. Please read these thoroughly and understand them completely before use. If you do not understand them or have any questions, contact your retailer or Blichmann Engineering (www.BlichmannEngineering.com) before use. Do NOT at ANY time operate the product until you have thoroughly read and understood these instructions!

Warning: Sections labeled "Warning" can lead to serious injury if not followed. Please read these thoroughly and understand them completely before use. If you do not understand them or have any questions, contact your retailer or Blichmann Engineering (www.BlichmannEngineering.com) before use.

Caution: Sections labeled "Caution" can lead to equipment damage or unsatisfactory performance of the equipment. Please read these sections thoroughly. If you have any questions, contact your retailer or Blichmann Engineering (www.BlichmannEngineering.com) before use.

Assembly:

The TopTier Modular Brewing stand only requires the installation of only a few components.

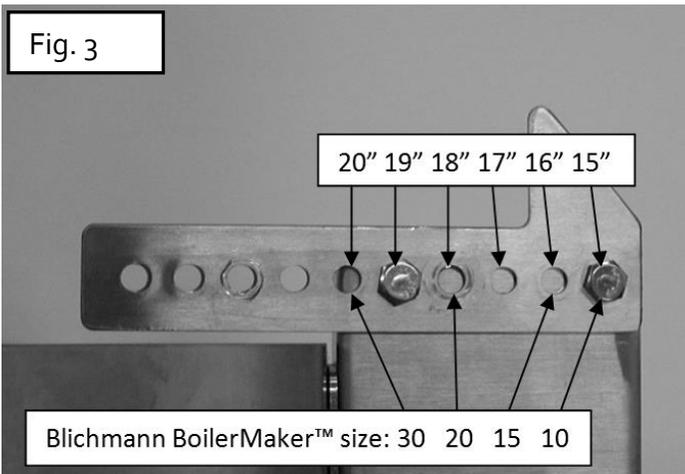
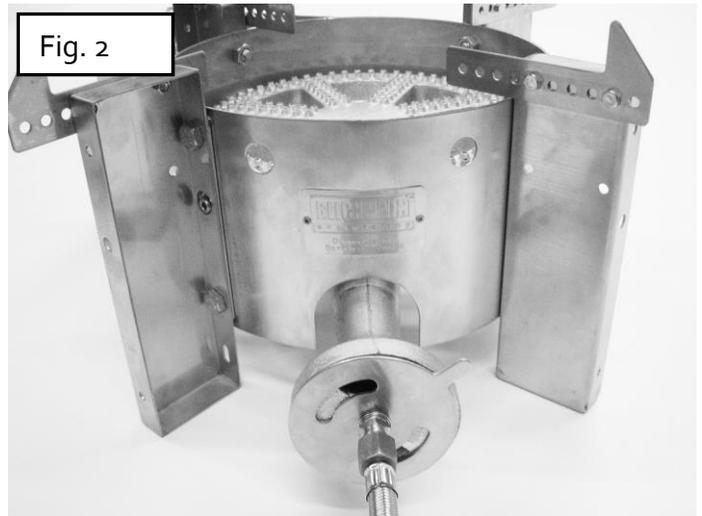
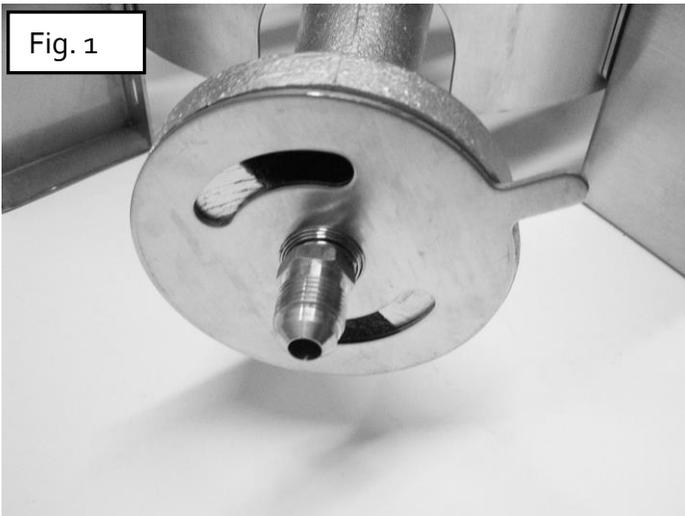
Parts List:

The following items are shipped with each burner.

- 1 - Burner assembly
- 1 - Adjustable gas regulator
- 4 - Stainless pot retaining bars
- 8 - 6mm bolts & nuts
- 1 - Stainless air damper
- 1 - Spring
- 1 - Brass gas orifice fitting

Assembling the Burner

Install the orifice fitting, spring and air damper as shown in Fig 1. Note that the stainless damper goes directly against the burner casting! Then install the gas regulator hose as shown in Fig 2.



Lastly, install the 4 pot retaining bars as shown in Fig 3 using the 6mm nuts and bolts provided with the bars. Note that the bars can be moved in/out to accommodate pots up to 20" in diameter. Fig 3 shows the hole positions to use for different diameter pots. This concludes the assembly of the burner tiers.

Optional Leg Extensions

Optional leg extensions are available to raise the height of the burner to 24" to allow gravity draining into your carboy or other fermentor. Simply remove the shorter legs and install the longer legs as shown in Fig 4. But be sure to save the shorter legs as these are required if you ever wish to install this burner on the TopTier™ modular brewing stand.



Fig. 4

Tip: We have applied a nickel based antiseize to the threads to aid in disassembly after extended periods of high temperature use. If you are installing new burners that have never been used, you will not need to reapply more antiseize. If you are installing leg extensions on a burner that has been used, we recommend that you apply a nickel based antiseize compound (made for stainless steel) to aid any future disassembly. This compound can be purchased through McMaster.com ref item number 10295K29.

Danger: Do not exceed 150lb when using the leg extensions.

Operation:

This section of the manual discusses proper operational techniques for safety and successful operation.

***** Safety should be the highest priority of any brewer. Use common sense! *****

Danger!

It is vital for the safety of yourself, others, and personal property that you thoroughly read and understand and follow the important safety instructions in this manual. **If at any time you do not understand how to assemble, operate, locate, or install this equipment or have any questions about this manual do not operate the equipment.** Contact your Retailer or Blichmann Engineering for assistance.

********* By purchasing and operating this equipment you agree and understand that brewing beer has inherent dangers and risks that include, but are not limited to burns, scalds, fire, falling objects and property damage and you agree that Blichmann Engineering, LLC is not liable in any way for consequences arising from you personally accepting these risks. **If at any time you are not completely willing to accept personal responsibility for these risks DO NOT USE THE EQUIPMENT. In no situation should this equipment EVER be used indoors!**

Do not use this equipment while drinking alcohol or while under the influence of alcohol or other drugs. This product, like any gas appliance, can be extremely dangerous and can cause burns, scalds or start a fire. Misuse of outdoor cooking equipment can result in personal injury and property damage. This product generates carbon monoxide gas. NEVER operate this product indoors or in any confined area where there is not adequate ventilation. **All surfaces of this product may become extremely hot during use.**

Never Do These Things!

NEVER LEAVE THIS EQUIPMENT UNATTENDED

NEVER EXCEED 250LB (80KG) PER BURNER ON STANDARD LEGS

NEVER EXCEED 175LB (70KG) PER BURNER ON LEG EXTENSIONS

NEVER HEAT COOKING OIL WITH THIS EQUIPMENT

NEVER ALLOW CHILDREN NEAR THIS EQUIPMENT DURING USE

NEVER operate on soft, combustible or uneven surfaces like dirt, gravel, wood or asphalt

NEVER operate indoors, in a garage, under an overhang, porch, deck, carport or similar structure

NEVER use near and combustible chemicals, gasoline or other flammable vapors or liquids

NEVER allow the flame to roll past the bottom of the pot

NEVER operate without pot retaining bars in place

NEVER lift or move a full pot of water onto or off of the stand

Always Do These Things!

ALWAYS OPERATE OUTSIDE ONLY, AT LEAST 30FT FROM OTHER STRUCTURES

ALWAYS USE ONLY ON LEVEL AND STABLE CONCRETE, BRICK OR SIMILAR HARD NON-FLAMMABLE SURFACES.

ALWAYS Keep the gas supply hose away from heated surfaces AT ALL TIMES

ALWAYS Check that all fasteners are properly tightened prior to each use

ALWAYS Check for gas leaks before each use using soapy water

ALWAYS Wear protective gloves, clothing, and boots to prevent burns and scalds

ALWAYS Have a fire extinguisher nearby at all times

ALWAYS Use a pump or gravity to move hot liquids from or into the pot

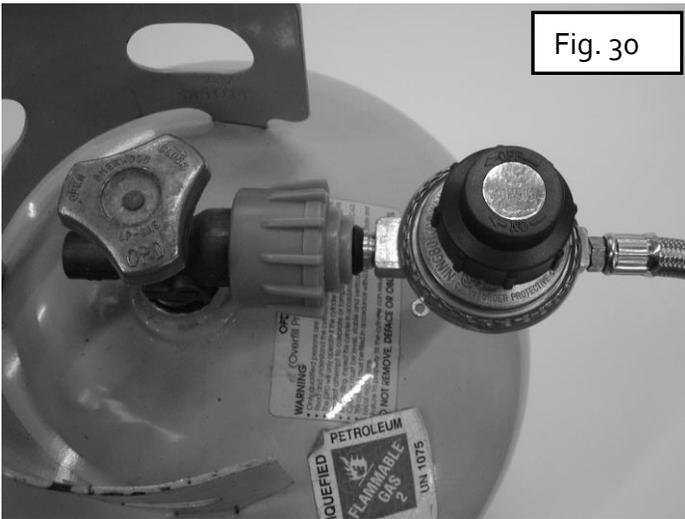
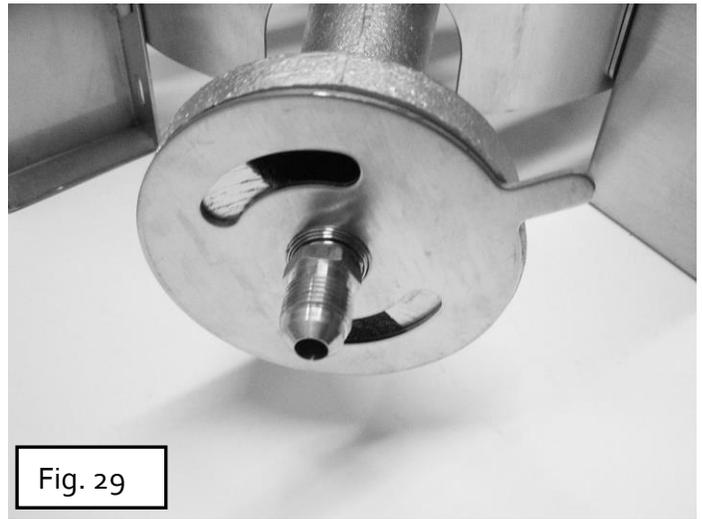
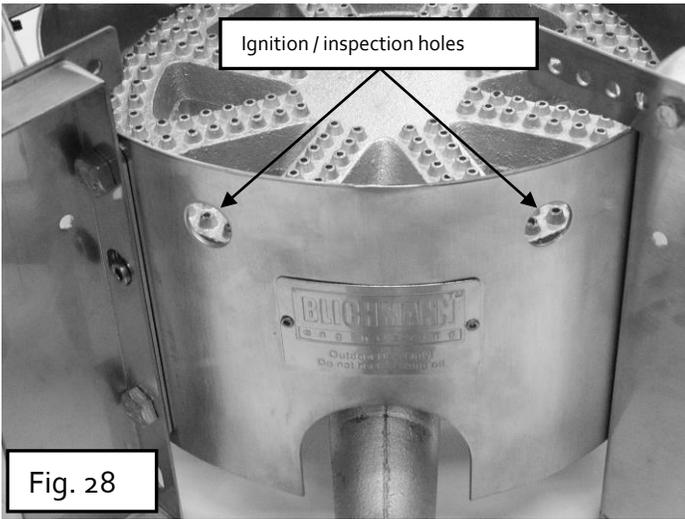
ALWAYS Use only Blichmann Engineering burners accessories on this burner

ALWAYS Let equipment cool completely after use before moving

Burner Operation

Igniting the burner: Always use a long match or igniter to light the burners. Never light the burner at the venturi. An ignition/flame inspection hole (Fig 28) has been provided for this purpose. Prior to igniting the burners, turn the air damper so that it is open to about half open as shown in Fig 29. Make sure you ignite it with a pot on the burner and make sure it at least partially full of water to prevent damaging the pot. A variable pressure regulator (0-10 PSI) has been provided with the stand – ref Fig 30. Turn it fully counterclockwise to the “off” position. Then turn on the tank valve to the full on position. You will use the regulator to control the gas flow by turning it clockwise to increase fuel flow. Never use a different regulator with this product! To ignite the burner, simply turn the regulator slowly clockwise. When you hear the gas flowing immediately ignite the gas through the burner ignition hole.

Fine tuning the flame: Once the burner has ignited, you will adjust the regulator and air damper (Figs 29 & 30) to reach the desired heat setting and air/fuel mixture. Looking through the flame inspection hole at the flame, turn the air damper until the flame is slightly yellow. Then slowly turn it back until the flame turns pale blue (the yellow will be gone) and is still touching the nozzles in the burner casting. If the flame lifts off of the nozzles, or you hear a low grumbling from the flame it is getting too much air through the damper and you will need to close it slightly. If it is yellow, there is not adequate air and you will need to increase the air flow. As you increase the gas flow via the regulator, it may be necessary to readjust the air damper. Note that optimum heating speed and efficiency can only be achieved with a properly adjusted flame.



Maintenance

The TopTier™ burner requires little maintenance. Inspect fasteners and hoses regularly and replace as needed. After brewing and allowing the equipment to cool, wipe any drips off with ordinary soap and a soft sponge and allow to dry.

Blichmann Engineering Product Warranty

A. Limited Warranty

1. Blichmann Engineering warrants to the original purchaser that this product will be free from manufacturing defects in material and workmanship for a period of one (1) year from the date of purchase by the customer. Proof of purchase is required. Blichmann Engineering's obligation to repair or replace defective materials or workmanship is the sole obligation of Blichmann Engineering under this limited warranty.
2. This product is for home use only. The limited warranty covers only those defects that arise as a result of normal use of the product and does not cover any other problems, including, but not limited to, those that arise as a result of:
 - a. *Improper maintenance or modification;*
 - b. *Damage due to incorrect voltage or improper wiring by customer;*
 - c. *Operation outside of the product's specifications;*
 - d. *Carelessness or neglect to operate the product in accordance with instructions provided with the product;*
 - e. *Damaging the tamper label on the product;*
 - f. *Damage by over-tightening the fasteners;*
 - g. *Failure to follow cleaning and / or maintenance procedures; or*
 - h. *Exceeding published operational temperatures.*
3. Blichmann Engineering reserves the right to request delivery of the defective component for inspection before processing the warranty claim. If Blichmann Engineering receives, during the applicable warranty period, notice of a defect in any component that is covered by the warranty, Blichmann Engineering shall either repair or replace the defective component with a new or rebuilt component at Blichmann Engineering's option.
4. Blichmann Engineering must be notified within seven (7) days of the delivery date of any shipping damage. Customer is responsible for shipping damage outside of this time period. Approval for return must be provided by Blichmann Engineering prior to any return. Customer is responsible for keeping all original packaging material for warranty returns. Blichmann Engineering is not responsible for damage from improperly packaged warranty returns, and these repair costs will be the sole responsibility of the customer. Shipping costs for warrantee returns are covered only for the contiguous United States.
5. Blichmann Engineering's limited warranty is valid in any country where the product is distributed.

B. Limitations of Warranty

1. Any implied warranty that is found to arise by way of state or federal law, including any implied warranty of merchantability or any implied warranty of fitness, is limited in duration to the terms of this limited warranty and is limited in scope of coverage to this warranty. Blichmann Engineering disclaims any express or implied warranty, including any implied warranty of fitness for a particular purpose or merchantability, on items excluded from coverage as set forth in this limited warranty.
2. Blichmann Engineering makes no warranty of any nature beyond that contained in this limited warranty. No one has authority to enlarge, amend, or modify this limited warranty, and Blichmann Engineering does not authorize anyone to create any other obligation for it regarding this product.
3. Blichmann Engineering is not responsible for any representation, promise, or warranty made by any independent dealer or other person beyond what is expressly stated in this limited warranty. Any selling or servicing dealer is not Blichmann Engineering's agent, but an independent entity.

C. Limitations of Liability

1. The remedies provided in this warranty are the customer's sole and exclusive remedies.
2. Except for the obligations specifically set forth in this warranty, in no event shall Blichmann Engineering be liable for direct, indirect, special, incidental, or consequential damages, whether based on contract, tort, or any other legal theory and whether or not advised of the possibility of such damages.
3. This warranty does not cover, and in no event shall Blichmann Engineering be liable for, travel, lodging, or any other expense incurred due to manufacturing defects in material and workmanship, or any other reason.
4. Any performance of repairs after the warranty coverage period has expired or performance of repairs regarding anything excluded from coverage after this limited warranty shall be considered good-will repairs and they will not alter the terms of this limited warranty, or extend any warranty coverage period.
5. Venue for any legal proceedings relating to or arising out of this warranty shall be in Tippecanoe County, Indiana, United States, which courts will have exclusive jurisdiction.

D. Local Law

1. This warranty gives the customer specific legal rights. The customer may also have other rights that vary from state to state in the United States or other countries.
2. To the extent that this warranty is inconsistent with local law, it shall be deemed modified, only to the extent necessary to be consistent with such local law.