

MK GLYCERIN BURNER Specifications

Glycerin Burner

Power supply	120 VAC/60 Hz single phase
	220 VAC/50 Hz single phase
Operating load	5.8 amps. max.
Motor	1/7 – 1/5 HP 3450 RPM
Ignition	Continuous duty-intermittent
Weight (shipping)	60 lbs – 27 kg

Fuel

Raw glycerin with viscosity no greater than 220 centistokes (equivalent to 20w oil.)
@ 70 degrees F. (21 degrees C.)

Starting mixture: Glycerin + 5-10% combustion enhancer (methyl alcohol).

Time on starting mix is approximately one minute, depending on combustion hamber and operating conditions.

Compressed Air

Auxiliary air 5 – 30 psi.

Water Purge

Post purge 200 psi.

Capacity

Beckett AF burner

Firing rate	1.5 - 3.5 GPH (5.7-13.2 l/h)
Input glycerin	150,000 – 300,000 BTU/hr. (44-88 kW)
Input vegetable oil	420,000 BTU/hr. (123 kW/h)
Input waste oil	500,000 BTU/hr. (146 kW/h)
Input #2 fuel oil	320,000 BTU/hr. (94 kW/h)

Starting Mixture Pump

Outlet pressure	120 PSI – 300 PSI
Motor	1/7 – 1/5 HP 3450 RPM
Power supply	120 VAC/60 Hz.
	220 VAC/50Hz.
Operating load	5.8 amps. Max
Weight (shipping)	50 lbs – 22.5 kg

Purge Water Pump

Outlet pressure	250 PSI Max
Motor	¼ HP
Power supply	120 VAc/60 Hz
	220 VAC/50 Hz
Operating load	4.3/2.2 amps. Max
Weight (shipping)	30 lbs – 13.5 kg

Dimensions Burner

Height 11 1/2" (29 cm.)
Width 12 7/8" (32.6 cm.)
Depth (chassis only) 6 9/16" (16.9 cm.)
Air tube 4" (10.16 cm) diameter, 7" (17.78 cm.) length

Combustion Chamber/ Fire Box Dimensions And Materials

The fire box has to be 20" long (min.), 13" wide, 13" high with a door or burner mounting plate opening large enough to accept a prefabricated cylindrical combustion chamber 12" long, 12" OD or the fire box has to be lined with refractory material (highest rated fire bricks or castable - ceramic blanket material does not have sufficiently high temperature rating) to provide cylindrical (preferred) or square combustion chamber 9-10" ID and 12" long with the exit opening choked down to 5" ID; The mass of refractory material should be kept to the minimum.