

## SELEE HIGH VOLUME BURNER-ADVANCED CONTROLS™

**The SELEE HVB-AC™ preheater provides safe and reliable preheating of SELEE® Filters and Filter Bowls, using hot combustion gases without direct flame to eliminate hot spots, and heat the whole filter surface, filter gasket and filter bowl.**

### Description

The HVB-AC™ is built in conformance to NFPA Guidelines, using a programmable automatic temperature control for stable preheating. A combustion boot contains the flame, so only hot combustion gases of the proper temperature reach the filter and bowl refractory. An air multiplier replaces the combustion blower used in conventional systems, using compressed air to generate sufficient combustion airflow.



The control panel contains an over-temperature controller that safely controls combustion and spark ignition. The programmable temperature controller controls the gas flow to maintain the desired temperature at the thermocouple in the gas flow. A timer relay monitors the heating cycle, energizing the "Filter Ready" warning light at the end of the cycle.



## Specifications Utilities:

Compressed Air: 3.5 CFM @ 80-100 psi. [100 LPM @ 5.5-6.9 bars]

Fuel: Natural Gas: 150 CFH @ 8-14" W.C. (0.3-0.5 psig). [70 LPM @ 0.020-0.035 bars]

**OR**

Propane Vapor: 60 CFH @ 8-14" W.C. (0.3-0.5 psig). [30 LPM @ 0.020-0.035 bars]

Electricity: 800 Watts @ 115 Volts, 50/60 Hz.

## Weight:

Burner Assembly: 22 to 30 lbs. [11 to 14 kg]

## Dimensions:

Control System: (including control panel, gas and air train) 65h x 60w x 20d inches (1650h x 1524w x 508d mm)

## Performance:

Outlet Gas Temperature: 1300 to 1500°F [705 to 816°C], adjustable

Heating Rate: 150,000 BTU/Hr. [44 kW]

## Advantages

The HVB-AC™ has the following advantages compared with conventional preheat burners:

1. **Forced convection heating** provides excellent heat distribution to eliminate hot spots on filter and bowl refractory. Even preheat temperature provides complete priming and good gasket sealing every time.
2. **Automatic combustion controls** will shut down the equipment to prevent gas leaks or explosions.
3. **Automatic gas temperature control** eliminates damage to filter and bowl refractory. Stable operation following desired temperature cycle guarantees proper preheat every time.
4. **HVB-AC™ can be left on during start-up delays** for up to two hours.

