

PRINCIPLE

The VS Compressed Air Portable Oil Burner operates on the principle of Venturi suction. Compressed air at between 50 to 100 psi is used to create the suction for oil to flow into the burner from the portable tank and also to atomize the oil. No direct air pressure is applied to the oil in the tank, and therefore no initial or periodic pressure testing of the tank is required.

COMPONENTS

The VS burner consists of:

- Mobile 15 gallon oil tank
- Burner lance
- Detachable cast iron nozzle
- Air and oil hoses
- Pressure gauge
- Air and oil control valves
- Air and oil shutoff valves

An optional adjustable stand enables the burner to be used at varying heights and angles, making the entire unit flexible and versatile.

APPLICATIONS

The VS burner is a highly versatile portable unit suitable for a large variety of heating operations. Some of its many applications include:

- Rapid and intense heating of MS parts to bend, straighten, expand or anneal components of railway wagons or boilers
- Lighting cupolas
- Preheating large ladles
- Skin drying of large moulds
- General heating and repair work

VS

COMPRESSED AIR PORTABLE OIL BURNER



TYPE OF OIL Light diesel oil or kerosene
OIL CONSUMPTION Min 9 to max 27 litres per hour
OIL TANK CAPACITY 15 gallons (67.5 litres)
AIR CONSUMPTION Approx 20 cfm (0.5 m³ per minute)
AIR PRESSURE 50 to 100 psi (3.6 to 7.2 kg per cm²)
AIR AND OIL HOSE 12" (305 mm) long each
BURNER LENGTH Approx 50" (1270 mm)
MIN FLAME LENGTH 18" (457 mm)
MAX FLAME LENGTH 48" to 60" (1220 to 1525 mm)

STARTING UP AND OPERATION

Before starting up the burner, close the oil and air regulating valves and also the air shutoff valve near the pressure gauge. Prepare a lighting-up torch by winding oil-soaked cotton waste around a rod. Place the lighted torch near the mouth of the burner, and open the air shutoff valve first. Next gradually open the air control valve followed by the oil control valve till the oil ignites. By controlling the oil and air regulating valves the flame can be varied from a soft luminous low-temperature flame to one with a temperature as high as 1150°C suitable for rapid intense local heating. For intense heating, the flame becomes highly powerful 5 to 10 minutes after ignition due to heating up of the nozzle. The flame can be easily adjusted for length and intensity to suit the work in hand.