

## HORIZONTAL HEATER TREATERS

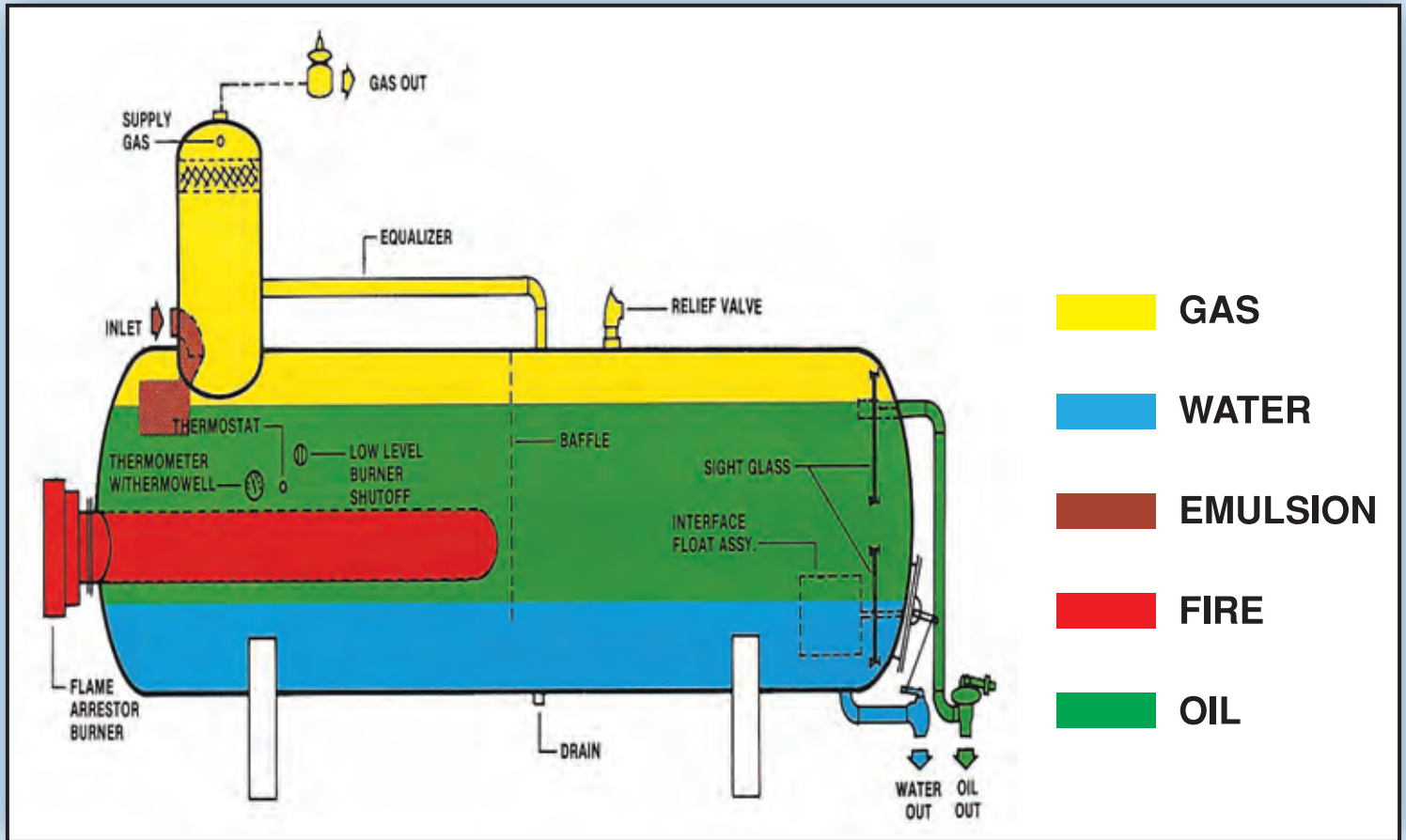
**In the correct application, the horizontal treater has several advantages over the vertical.**



Increased liquid capacity for a given size vessel is possible for the following reasons: the BTU/Hr rating is higher because a longer firetube can be used. Settling time is enhanced because of the larger surface area of the oil/water interface, and the shorter distance that small suspended particles of water must travel to fall from the oil phase to the water phase.

Also, initial solution gas which breaks out when the emulsion is heated can go to the gas phase as it breaks out rather than traveling through the entire settling section. Water capacity is greater due to the increased interface surface area as above plus the fact that the water section is below the firetube and does not carry off as much heat through conductance. The inlet gas dome is essentially a vertical gas separator with an S.S. wire mesh mist extractor. The hot solution gas that breaks out in the heated treater must come back through the separator section where it is mixed with the cool inlet gas. This causes condensation of the heavier fractions which drop back into the oil section. Installation cost is lower than a vertical because less pipe is required and hookup is at ground level rather than off ladders. The low profile is also an advantage where there are height restrictions.

## HORIZONTAL HEATER TREATERS



| SIZE     | TEST PRESSURE | NOM. OIL CAPACITY BBL/D | NOM. WATER CAPACITY BBL/D | GAS CAPACITY | STD. VALVE SIZE |
|----------|---------------|-------------------------|---------------------------|--------------|-----------------|
| 3' x 10' | 75            | 100                     | 150                       | 1.0          | 2               |
| 4' x 15' | 75            | 375                     | 400                       | 1.9          | 2               |
| 6' x 15' | 75            | 600                     | 700                       | 1.9          | 3               |
| 8' x 20' | 65            | 1,000                   | 1,500                     | 2.3          | 4               |

### STANDARD ACCESSORIES:

- 1-flanged stack w/bracket
- 1-removable firebox
- 1-flame arrestor burner and pilot assembly
- 1-thermostat w/thermowell
- 1-thermometer w/thermowell
- 2-gauge glass assembly
- 1-pressure gauge w/isolating valve
- 1-relief valve
- 1-set tubing and fittings
- 1-inlet separator section w/SS wire mesh mist extractor
- 1-interface float assembly
- 1-16" manways
- 2-2" oil and water dump valves (Kimray 26-SWA)
- 1-2" gas backpressure valve (Kimray 212-SGT-BP)
- 1-6" x 36" fuel gas scrubber w/ high level shutoff and drain
- 1-fuel gas regulator
- 1-burner manifold w/valve, gauges and fittings
- 1-low fluid level burner shutoff
- 2-concrete blocks