

Evaluating an 858 Vacuum System

TECHNICAL BULLETIN

The Filterdyne® vacuum distillation systems (Mini-Vac®, Dyna-Vac®, and Smart-Vac®) are easier to evaluate than might be expected. The reason is because the system itself provides quick indications of the condition of the system. The indicators that reveal the condition of the system involve gauge readings, oil level reading, and control panel light indicator readings.

Gauge readings

The gauges on the 858 systems include:

- Vacuum gauge –should read between 24" Hg to 26" Hg
- Outlet pressure gauge –should read between 10 & 50 psig (do not exceed 50 psig)
- Differential pressure gauge –should read less than 15 psid
- Oil temperature gauge –should read 150F
- Water temperature gauge –should read 85F or less

Oil level readings

The port hole needs to show a level of oil about 1/4 the way up the port hole. It should not exceed 1/2 the way up.

Control panel light indicators *(See illustration #2)*

- On/Off switch –It's simple, but the system will not operate in the OFF position.
- Heater light –When the light is illuminated, the heater is ON.
- Low Level (low flow) light –This illuminates when the system initially starts. It will go off when sufficient oil has entered the vacuum chamber. It is off during normal operation.
- High Level light –This illuminates when the level of oil has risen too high in the vacuum chamber. This alarm will shut the system off.
- High Temperature light –This light illuminates when the oil temperature reaches 180F. This alarm will turn the system off.
- Heater Temperature Controller –This should be set for 150F. It also give a temperature reading of the oil.

It only takes a few seconds to check these indicators. If all indicators are correct, the system should work. If not, record the Model #, Serial #, and the indicator in question, and contact Kaydon. In most cases, it is a simple solution to the problem. Always be sure to check each indicator before calling Kaydon for additional help.



Illustration #1: Model 858-300 Mini-Vac Vacuum Distillation System

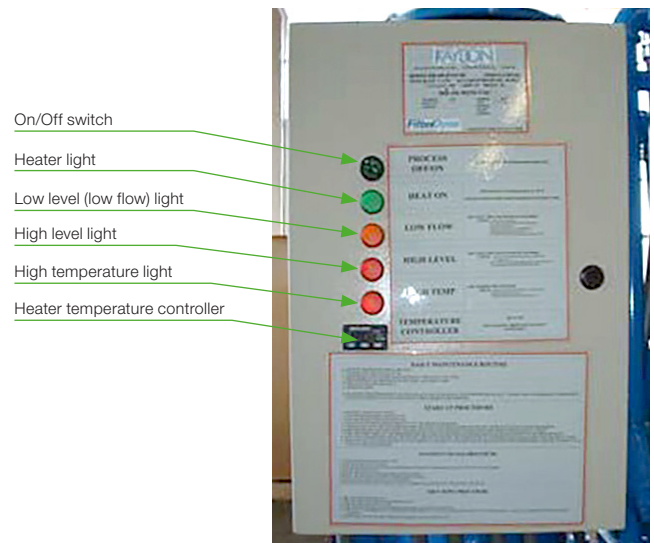


Illustration #2: Control Panel (858-300 Mini-Vac)

