OIL RESERVOIRS

HENRY TECHNOLOGIES

Due to system design, loads & defrost cycles, varying amounts of oil can be returned by the oil separator. Because of this, a safety reserve of oil is required for the operation of our oil control system. The oil reservoir is the holding vessel for this stand-by oil. It has sight glass ports to observe the oil level inside the vessel. The valve on top of the Oil Reservoir receives oil from the Oil Separator, and the bottom valve distributes oil to the Oil Level Regulators. The valves are backseating and have a ¼" flare connection, allowing the addition or removal of oil from the reservoir. High pressure gas returns with the oil from the Oil Separator to the Oil Reservoir. Pressure could build up in the Oil Reservoir to adversely affect the Oil Regulators. To prevent this, a vent line is installed from the top of the Oil Reservoir to the suction line. This line permits the pressure in the Oil Reservoir to be approximately the same as the suction line and the compressor crankcases.

Catalog Number	# Sight Glasses	Capacity in Gallons			Dim. In.
		A	B	C	D
S-9108	3	4	1½"	¾"	37.94
S-9109	2	2	¾"	¾"	19.94

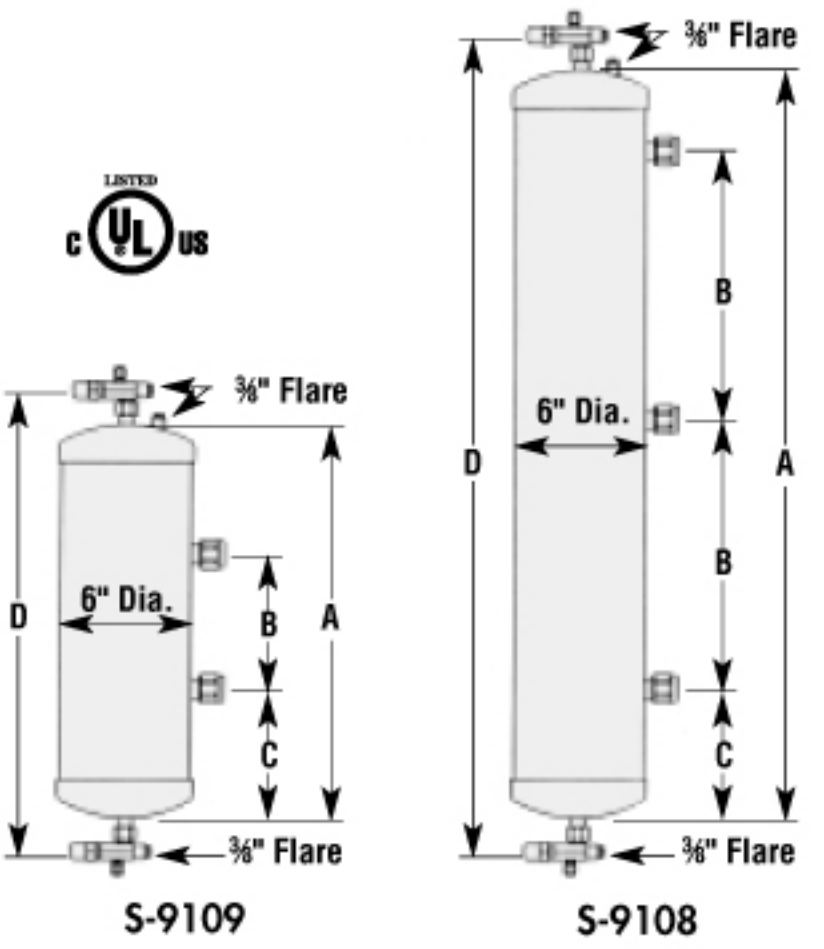
The 4 gallon model Cat. No. S-9108 should be used on very large systems, or systems with excessive oil charges, long line runs or any case where suction oil return may be impeded.

New System Start-Up

On system start-up of a new parallel system, oil should be added to the OIL RESERVOIR to the upper sight glass port, NOT ABOVE IT. It is commonly accepted that in a new refrigeration system, some oil will be absorbed by the refrigerant as the system becomes balanced out. After two hours of operation, the OIL RESERVOIR, if necessary, should again be filled to the upper sight glass, and also after two days, by which time the entire refrigeration system should be balanced out. Then the OIL RESERVOIR must be observed on each service call. No oil should be added again until the oil level falls below the lower sight glass port.

Existing System Start-Up

When installing this OIL CONTROL SYSTEM, on a parallel system that has been in operation for some time, the amount of oil should be added cautiously. With the efficiency of the new OIL SEPARATOR, the oil return could likely be sufficient to fill the OIL RESERVOIR to the lower sight glass port only. Observe for one day. After the second day, if the oil level has not risen to the upper sight glass, add oil. If the oil level has risen above the upper sight glass port, remove the excess oil from the OIL RESERVOIR.



S-9109 S-9108

Compressor Protective Devices

AC&R Components