



Dry & All manufactures two types of Oil Separator.

- A) Vertical Sealed type i.e. hermetic welded which cannot be dismantled.
- B) Vertical Flanged type i.e. accessible bolted flange construction which can be overhauled for maintenance.

These are designed for installations on commercial refrigeration systems and on civil and industrial Air conditioning plants. Common application includes multi-compressor racks and remote condensing unit.

These are impingement screen type Oil Separators. They perform by having the compressed mass flow enter into a large separator chamber through stainless steel metallic screen, placed on inlet & outlet, which lowers the velocity creating the conditions required for the separation of oil from the refrigerant. The atomized oil droplet collects on the impingement screen surface. As the oil droplets agglomerate, they fall to the bottom of the separator oil reservoir. The presence of an internal baffle eliminates risk of the oil being carried by the refrigerant. A stainless steel float operated needle valve set at the bottom of the vessel, returns the oil to crankcase of compressor. The bottom chamber also collects all metallic debris through permanent magnet which holds these impurities to avoid damage to the operating needle being moved by floating ball.

- 1) Prime function of Dry & All Oil Separator is to separate oil from the refrigerant and return it to the compressor crankcase before it can enter other components of the system. This increases the life of the compressor.
- 2) Installation of Oil Separator into a system gives a muffling effect on the discharge gas pulsations from the compressors thus reducing the system noise.
- 3) Dry & All Oil Separator can be used in ultra low temperature systems with long refrigerant lines with oil return problem.
- 4) Oil Separators should always be installed in the discharge line, between the compressor and the condenser mounted securely in a vertical position as close to the compressor. It is advisable to insulate the oil separator shell.
- 5) Before proceeding with the installation the oil separator must be charged with certain amount of oil through outlet in order to actuate the float mechanism immediately after start-up. Use the same type of oil as filled in the compressor crankcase. (0.5 Liter initial oil charge for W/F-4 Inches model.)
- 6) Oil Separator Flange Type are equipped with flange and can be opened for cleaning. Note: Always use new gasket and tight the bolts with 35 Nm. Torque after cleaning.
- 7) Dry & All Oil Separators are compatible with HFCs, HCFs, HCFCs, including R12, 22, 123, 125, 134a, 401A, 401B, 402A, 402B, 404A, 407A/B/C, 408A, 409A, 410A, 410B, 500, 502, 507, 508, 509 etc., and lubricant combination i.e. Mineral oils, Alkyl-benzene (AB), Polyester Oil (POE) and Polyalkylene Premium (PAG).
- 8) Maximum working pressure 653 psig.

Refer Page No.18 for Dimensional and Technical Details.