



Sump Separator Systems 900-914-AIR

The Model 900-914 Sump Separator Systems are water separation systems for gasoline, jet, and diesel fuel tanks located at fuel farms and refineries. As water accumulates and settles in the fuel tanks, provision must be made to remove the water from the fuel tank quickly and efficiently. The 900-914 system removes free water (water that has settled to the bottom and is not emulsified with the fuel) and emulsified water (water that is still mixed with the fuel) without operator involvement.

BENEFITS OF USING THE MODEL 900-914 INCLUDE:

- o **AUTOMATED OPERATION:** The operator does not need to be available while the system is in operation
- o **SUPER CLEAN DIESEL FUEL:** The product, clean and dry, is returned back to the tank
- o **NO MANUAL WATER DRAINING REQUIRED:** The coalescence process eliminates manually water draining
- o **SAFER OPERATION:** Operator's exposure to product is eliminated
- o **EASY START UP AND MAINTENANCE:** Operator training is short. This is an easy-to-operate & easy-to-understand system

| SPECIFICATIONS & DETAILS | |
|----------------------------------|---|
| System Flow | 20 GPM/76 LPM (maximum flow) |
| Sizing | For use with jet, diesel, and gasoline tanks up to 30,000 barrels and electrical power is not accessible |
| System Pressure | 100 PSIG/ 7 BAR (maximum) |
| Environmental Parameters | Minimum Temperature: 0 F (-17 C) Maximum Temperature: 130 F (54 C) |
| Materials of Construction | Metals: Carbon Steel, Bronze, Aluminum Elastomers: Buna-N Paint: Acrylic Urethane Enamel |
| Pressure Vessel | Carbon steel with internal epoxy coating |
| Inlet/Outlet Connections | Fuel Inlet = 1" (25.4 mm) 150# Raised Face Flange Fuel Outlet = 1" (25.4 mm) 150# Raised Face Flange Water Discharge = 1/2" (12.7 mm) NPT |
| Fluid Compatibility | Diesel Fuel #1 and #2 |
| Performance | Water removed holds less than 1% hydrocarbon content |
| Weight | 500 lbs (227 Kgs) approximate |
| Dimensions | 50" L x 26" W x 54" H (1270 mm x 660 mm x 1372 mm) |



- o **LOW HYDROCARBON DISCHARGE** Water waste discharge contains low hydrocarbon content
- o **WATER REMOVED** All free and emulsified water in tank sump is removed
- o **ELIMINATES CORROSION** Tank bottom corrosion is eliminated
- o **DECREASED OPPORTUNITY FOR GROWTH OF SURFACTANTS AND MICROBIOLOGICAL** No water/fuel interface for surfactants or microbiological to accumulate
- o **REDUCTION OF PRODUCT LOSS**

FEATURE AND BENEFIT OPTIONS

EXPLOSION PROOF: Meets all electrical requirements for Class I, Division II, Group D hazardous area

EASY-TO- USE OPERATOR INTERFACE: Simple ON/OFF selector switch (only for electrical versions)

COALESCER ELEMENT DIFFERENTIAL PRESSURE GAUGE: Evaluation of the coalescer element is immediate.

SYSTEM PRESSURE GAUGE: Indicates system operating pressure.

KAYDON FILTRATION COALESCING TECHNOLOGY: Kaydon Filtration coalescing technology provides water removal.

AUTOMATIC WATER DRAIN: After system senses water accumulation, it is automatically removed.

WATER METER: Totalizes the number of gallons of water removed from the fuel tank.

EASE OF INSTALLATION: Connecting the inlet and outlet connections to your fuel tank, plus providing power are all that is needed to install system.

PIPING: Schedule 80 piping with welded and flanged connections

FUEL TESTING SAMPLE PORT: A sampling port with valve is installed for a collection of a fuel sample.

PRESSURE RELIEF VAVLE: Protects against pressure increase due to thermal expansion.

WATER FREEZE PROTECTION (optional): Keeps accumulated water in system from freezing. Recommended for installations where outside temperatures are at or below 32F (0 C) for extended periods.

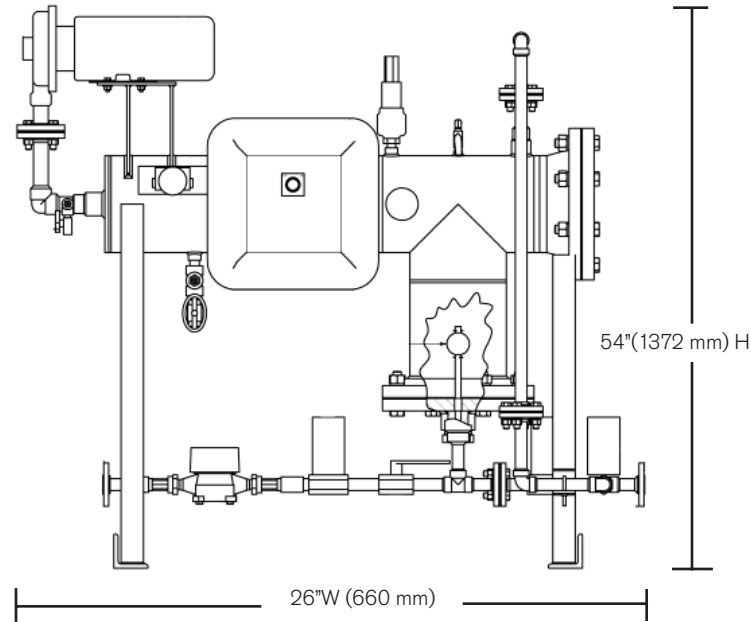
DRIP PAN (optional): 35" W x 63" L with 3" lip (889 mm W x 1600 mm L with 76 mm lip)

ASME CODE "U" STAMP (optional): Uses trustworthy ASME Code design with third party approval.

WATER COLLECTION TANK (optional): 1,000-gallon (3,785 liter) water collection tank.

AIR-POWERED, TWIN-DIAPHRAGM PUMP (optional): Aluminum housing with viton diaphragm. Flow rate = 20 GPM / 76 LPM. Option includes pulsation dampener, automatic air pressure compensation, and filter-regulator with gauge (for 900-914-AIR only).

900-914-AIR



| CONSUMABLES | | |
|---------------------------------|-----|-------------|
| MODEL/ DESCRIPTION | QTY | PART NUMBER |
| COALESCER ELEMENT | 1 | A910587 |
| VESSEL LID SEALS ⁽¹⁾ | 1 | A029001 |

| OPTIONS | |
|----------------------------------|------------------|
| Description | Part Number |
| Air Powered. Twin-Diaphragm Pump | D921058-AIR-PUMP |
| Drip Pan | B100553 |
| ASME Code "U" Stamp | U STAMP |
| Water Collection Tank | D932010 |

FOOTNOTES

(1) Required for element changes.

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