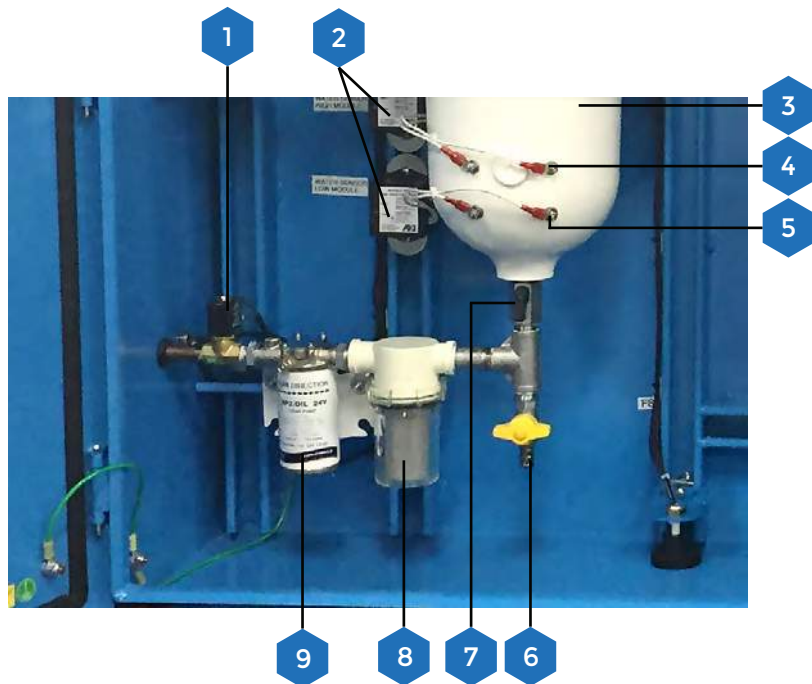




AUTO WATER DRAIN

Automatically Remove Collected Water from a Water Separator

The Auto Water Drain (AWD) option is comprised of a DC gear pump, solenoid shut off valve, and strainer that will automatically remove water collected in the sump of the water separator when the system detects high water levels. The water is drained into a storage tank, external to the system.



1. Solenoid Drain Valve
2. Watect Water Sensors
3. Water Separator
4. Water Level High Probe
5. Water Level Low Probe
6. Manual Drain Port
7. AWD Isolation Ball Valve
8. Basket Strainer
9. Auto Water Drain Pump

** Configuration of Auto Water Drain components may change location and orientation depending on which system they are configured on.*

SERVICING AUTO WATER DRAIN STRAINER:

1. Turn key switch on external control panel to the “OFF” position – make sure system pump will not turn on
2. Close the system inlet and outlet ball valves
3. Ensure AWD Isolation Ball Valve and Manual Drain Port are closed
4. Place a fuel waste container below the strainer
5. Open the bleed screw on top of the Water Separator to break vacuum
6. Remove and clean strainer
7. Reattach strainer and secure
8. Close Manual Drain Port and open AWD Isolation Ball Valve

MANUAL SERVICING OF WATER SEPARATOR:

1. Turn key switch on external control panel to the “OFF” position – make sure system pump will not turn on
2. Close the system inlet ball valve and outlet ball valves
3. To drain the water separator manually, place a fuel waste container under the Manual Drain Port
4. Open the bleed screw on top of the Water Separator to break vacuum
5. Open the AWD Isolation Ball Valve and Manual Drain Port
6. Close the Manual Drain Port when all water has been drained from water separator sump



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AUTO WATER DRAIN

Automatically Remove Collected Water from a Water Separator



1. Auto Water Drain Connection Hose
2. 15 Gallon Waste Water Drum
3. Float Switch
4. Modular Connection
5. Barrel Heater (Option)
6. AWD Stand (Option)
7. 1/2" AWD Stand Mounting Holes

AWD COMMISSIONING

1. Turn system on in manual(hand) mode
2. Jump out the bottom set of contacts, water level low probe (#5)
3. Jump out the top contacts, water level high probe (#4)
4. Main pump should shut down
5. High water alarm light on door indicator should flash
6. Keep contacts jumped out for approximately 60 seconds, until AWD pump turns on
7. Remove jumper from top set of contacts
8. Remove jumper from bottom contacts
9. AWD pump should shut down
10. Main pump should turn back on and resume normal operation

If the float in drain barrel is triggered, indicating a full drum, the next AWD cycle will fail to run and shut down for high water indicated by a solid lit high water alarm indicator on the door.



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Automatically Remove Collected Water from a Water Separator

◆ CSI SPECIFICATION:

1. Provide a 15 Gallon Drum to collect and temporarily store water and waste from the Water Separator before disposal. The drum should have a water level sensor that will prevent the drum from over filling and signal that the system requires service.

◆ WATER SEPARATOR AND AUTO WATER DRAIN OPERATION:

1. When the Water Separator's Water Level High Probe is triggered, the system will shut down
2. The system shuts down for 60 seconds, allowing water to completely separate from the fuel
3. The Auto Water Drain Solenoid Drain Valve opens and the Auto Water Drain pump turns on, draining the Water Separator bowl to below the Water Level Low Probe
4. The system will automatically turn back on and resume normal operation



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