# WEINMAN

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# Condensate Return Units

#### Cast Iron & Fabricated Steel Tanks Pump Types ACV, ADV, AEV and AFV

Weinman Condensate Return Units are designed for the automatic return of hot water condensation from radiators and heating coils and the delivery of those fluids to low and high pressure boilers.



#### **Applications:**

Municipal Buildings Utilities Hotels Supermarkets Irrigation Systems Apartment Buildings Office Buildings Food Processors Refrigerating

#### Pump Models ACV - AFV

Heads to 300' Flows to 225GPM Up to 20 HP Hot water circulation



Models ACV – AFV

## **Features**



**Weinman Types ACV, ADV, AEV and AFV** - Simplex and Duplex style Condensate Return Units are designed for automatic return of hot water condensation from radiators, coils, etc., to low and high pressure boilers, or for return of water and other liquids to the overhead tanks of industrial gravity circulating systems.

All units are shipped complete, ready for fast, easy installation into any system and they are precision engineered for heavy, continuous service in handling water up to 200°F.

The Duplex Unit is designed for systems having extra heavy loads of condensate or other liquid return, or where a stand-by-pump is required.

Both Simplex and Duplex Units can be converted into a boiler feed unit by the addition of a solenoid operated make-up valve.

Isolation valves between receiver and pump flange are available.

## **Descriptions**

Type ACV and AEV Pump (Type 4AEV and 6ACV Pump with 3 HP and larger motors)



Type ADV and AFV Pump (Type 6ADV and 6AFV Pump, All Motor Sizes)





**Mounting:** Whether used as condensate return or boiler feed units, types ACV, ADV, AEV and AFV pumps are mounted vertically for two reasons.

- 1. For proper motor elevation to eliminate danger of submergence if floor or pit is flooded.
- 2. To provide a low level suction inlet so that the impeller is sufficiently submerged even with minimum water level in the receiver an important requirement in the handling of hot water.

**Pump:** Sized for three times the normal required capacity in order to handle the abnormal rate of condensation resulting from starting a cold system. They have bronze impellers and are equipped with a mechanical shaft seal.

**Strainer:** Can be supplied when specified. Units use wye strainers mounted on the receiver inlet connection.





## **Performance Curves**

### **Operation of Condensate Return** and Boiler Feed Units

#### **Condensate Return Units**

#### **Operation:**

The condensate pump is operated by a float switch in the condensate tank. As water is returned from the system, it is pumped to the boiler by the condensate pump.



#### **Boiler Feed Units**

#### **Operation:**

*Circuit I.* Boiler Level Controller operates the pump feeding water to the boiler as required by the boiler.

*Circuit II.* Float Switch mounted in the condensate tank operates a solenoid in the solenoid valve adding water to the condensate tank as required.



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