WEINMAN® Series 900 & 910

Condensate Return Pumps

Condensate Return Units -Cast Iron & Fabricated Steel Types ACV, ADV, AEV and AFV

Fabricated Steel Duplex Unit

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.

Cast Iron

up to 50,000 sq. ft. EDR pressures to 100 PSI

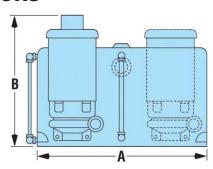
Fabricated Steel up to 100,000 sq. ft. EDR pressures to 100 PSI

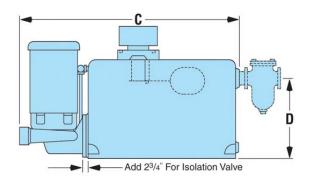


Cast Iron Duplex Unit

Weinman Condensate Return Pumps

Dimensions





Dimension in inches (mm)

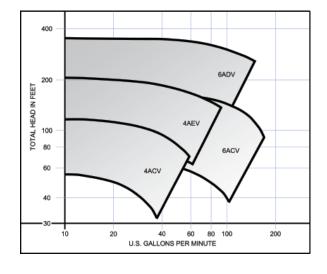
Receiver	4 ACV				4 AEV				6 ACV					6 A	DV		6 AFV			
Size Gallons	A	В	C•	D	A	В	C•	D	A	В	C•	D	A	В	C•	D	A	В	C•	D
20C	24	191/4	271/4	10	24	231/2	29	10	24	27	29	10	24	27	303/4	10	24*	283/4*	34*	10*
30C	24	191/4	36	10	24	231/2	373/4	10	24	27	373/4	10	24	27	391/2	10	24*	283/4*	423/4*	10*
45C	36	193/4	351/2	10	36	23½	371/4	10	36	27	371/4	10	36	27	39	10	36	283/4	421/4	10
67C	36	193/4	461/2	10	36	231/2	481/4	10	36	27	481/4	10	36	27	50	10	36	233/4	531/4	10

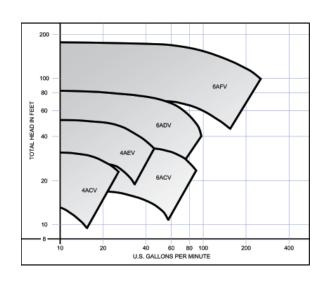
Dimensions approximate. Not for construction.	* Simplex units only in this size.	 Without Isolation Valve
Dimensions annroximate Not for construction	* Simpley linits only in this size	• WITHOUT ISOLATION VALVE

Receiver	4 ACV				4 AEV				6 ACV					6 A	DV		6 AFV			
Size Gallons	A	В	С	D	Α	В	С	D	A	В	С	D	A	В	С	D	A	В	С	D
6S	16%	14 ⁹ / ₁₆	221/2	-	161/8	14 ⁹ / ₁₆	241/4	-	16%	14 ⁹ /16	241/4	-	167/8	14 ⁹ / ₁₆	26	-	167/8	14 ⁹ / ₁₆	291/4	-
10S	243/4	14%	221/8	-	243/4	14%	231/8	-	243/4	14%	231/8	1	243/4	14%	25%	-	243/4	14%	28%	-
20S	27	181/4	26%	10	27	23%	281/8	10	27	23%	281/8	10	27	271/8	29%	10	27	28%	331/8	10
30S	27	181/4	341/2	10	27	23%	361/4	10	27	23%	361/4	10	27	271/8	38	10	27	28%	411/4	10
45S	33	181/4	405/8	10	33	23%	43%	10	33	23%	42%	10	33	271/8	441/8	10	33	28%	47%	10
60S	39	181/4	435/8	10	39	23%	45%	10	39	235/8	45%	10	39	271/8	471/8	10	39	28%	50%	10
808	39	21½	467/8	121/2	39	235/8	485/8	12½	39	235/8	485/8	121/2	39	271/8	50%	121/2	39	28%	53%	121/2
100S	39	21½	521/8	131/2	39	23%	54%	13½	39	23%	54%	131/2	39	271/8	56%	131/2	39	28%	59%	131/2
125S	39	261/2	52%	171/2	39	261/2	54%	171/2	39	261/2	54%	171/2	39	271/8	56%	171/2	39	28%	59%	171/2
150S	39	261/2	58%	171/2	39	261/2	60%	17½	39	261/2	60%	171/2	39	271/8	62%	17½	39	28%	65%	171/2
200S	45	30	591/8	201/2	45	30	60%	201/2	45	30	60%	201/2	45	30	62%	201/2	45	30	65%	201/2
D: .	•	4 NT 4	c	4 4.	T 1	4.	, ,	4	•		- 0		-1							

Dimensions approximate. Not for construction. Isolation valves between receiver and pump flange are available.

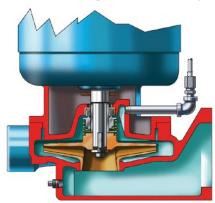
Performance Curves



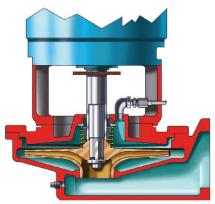


Descriptions

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 basket-type strainers also mounted on the receiver inlet connection. The basket can be removed for cleaning without taking the whole unit out of service.

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.

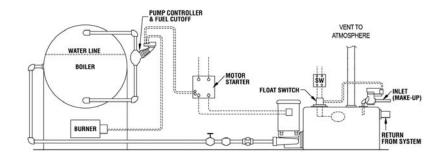
VENT TO ATMOSPHERE MOTOR STARTER PLOAT SWITCH CONTROLS PUMPS BURNER BURNER BURNER

Boiler Feed Units

Operation:

Circuit I. McDonnell Miller No. 150 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 (McDonnell Miller No. 101) adding water to the condensate tank as required.



WEINMAN® Series 900 & 910

Features

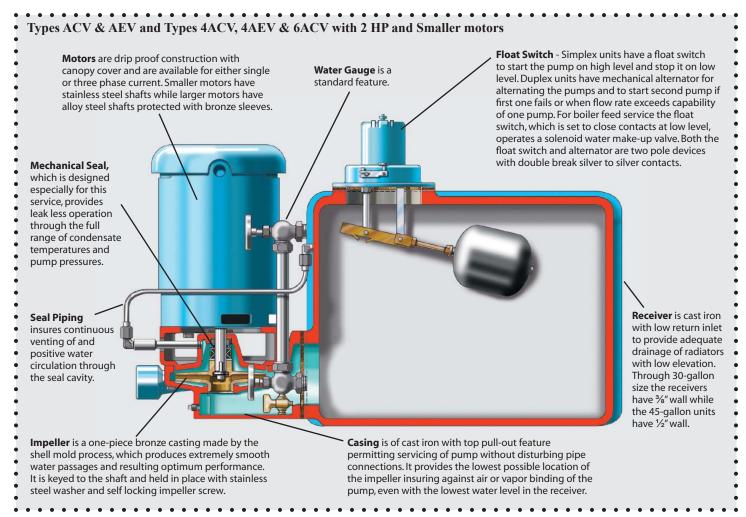
Weinman Types ACV, ADV, AEV and AFV Simplex and Duplex style Condensate Return Units are designed for automatic return of hot water condensation from radiators, coils, etc., to low and high pressure boilers, or for return of water and other liquids to the overhead tanks of industrial gravity circulating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

Isolation valves between receiver and pump flange are



CRANE

PUMPS & SYSTEMS

A Crane Co. Company

420 Third Street Piqua, Ohio 45356 (937) 778-8947 Fax (937) 773-7157 www.cranepumps.com

83 West Drive Brampton, Ont. Canada L6T 2J6 (905) 457-6223 Fax (905) 457-2650



W900-910BRO - 1/11 Crane Pumps & Systems® Printed in U.S.A.