\$ Your PRICE

Condensate Return Systems

- Max. liquid temp.: 200°F
- Motor enclosure: Open drip-proof (ODP)

Condensate return systems collect condensation generated in a large boiler loop system and pump the condensation back to the boiler. They are used when gravity-fed return is not an option. These systems have a built-in collection tank fitted with a mechanical float switch. The switch triggers when

condensation levels rise, which activates the pump to pump the condensate back to the boiler. **Duplex** systems have two pumps. Pumping alternates between the two pumps to reduce wear on both of them. They are used for systems with higher condensate return demand.

Simplex systems have one circulating pump.



												Simplex		
			Equivalence of Direct	Maximum Flow Rate	Maximum Flow Rate	Maximum Flow Rate	Maximum					4RD31		
Horsepower	Phase	Voltage	Radiation Rating	@ 30 Feet of Head	@ 50 Feet of Head	@ 70 Feet of Head	Feet of Head	Tank Cap.	Intake Connection	Discharge Connection	Tank Material	Series	Mfr. Model	Item No.
Duplex														
1⁄₃ hp	Single	115/230	12,000	33 gpm	12 gpm	_	52 ft	14 gal	2 in NPT	3/4 in NPT	Cast Iron	WCD12-20 B-MA	160032	4RD33
1∕3 hp	Single	115/230	12,000	33 gpm	12 gpm	_	52 ft	14 gal	2 in NPT	3/4 in NPT	Welded Steel	WCSD12-20 B-MA	160013	4RD30
3/4 hp	Single	115/230	15,000	_	_	_	75 ft	14 gal	2 in NPT	1 ½ in NPT	Cast Iron	SCC1	160018	5DPZ1
3/4 hp	Three	208-230/460	15,000	_	_	_	75 ft	14 gal	2 in NPT	1 ½ in NPT	Cast Iron	SCC2A	160033	5DPZ2
3/4 hp	Three	230	22,000	_	_	_	75 ft	23 gal	2 in NPT	1 ½ in NPT	Cast Iron	SCC3B	160034	5DPZ3
1 ½ hp	Three	208-230/460	45,000			35 gpm	75 ft	36 gal	3 in NPT	1 ½ in NPT	Cast Iron	SCC4A	160035	5DPZ4
Simplex								_						
¹⁄₃ hp	Single	115/230	8,000	33 gpm	12 gpm	_	52 ft	9 gal	2 in NPT	3/4 in NPT	Cast Iron	WC8-20B	160030	4RD31
1/3 hp	Single	115/230	12,000	33 gpm	12 gpm	_	52 ft	14 gal	2 in NPT	3/4 in NPT	Cast Iron	WC12-20B	160031	4RD32
1/3 hp	Single	115/230	12,000	33 gpm	12 gpm	_	52 ft	14 gal	2 in NPT	3/4 in NPT	Welded Steel	WCS12-20B	160012	4RD29

Boiler Feed Systems

Single phase

Pumps store and monitor the amount of condensate returning to the boiler to ensure it does not exceed the boiler's capacity. They mount directly to the boiler in either a vertical or horizontal orientation to accommodate various spacing requirements. Welded steel tank, single phase.

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Simplex systems have one circulating pump. **Duplex** systems have two pumps. Pumping alternates between the two pumps to reduce wear on both of them. They are used for systems with higher condensate return demand.



		of Direct	Flow Rate	Flow Rate	Flow Rate								
Horsepower	Voltage	Radiation Rating	@ 30 Feet of Head	@ 40 Feet of Head	@ 50 Feet of Head	Maximum Feet of Head	Tank Cap.	Intake Connection	Discharge Connection	Tank Orientation	Series	Mfr. Model	ltem No.
Simplex													
1/3 hp	115/230	7,000	33 gpm	30 gpm	12 gpm	46 ft	50 gal	2 in NPT	3/4 in NPT	Vertical	50VBFS-B	161001	4RD34
Duplex													
1/3 hp	115/208-230	15,000	33 gpm	30 gpm	12 gpm	46 ft	50 gal	2 ½ in NPT	3/4 in NPT	Horizontal	50HBFD-1520	161052	5DPY9
1/3 hp	115/208-230	15,000	33 gpm	30 gpm	12 gpm	46 ft	110 gal	3 in NPT	1 ½ in NPT	Horizontal	100HBFD-1520	161054	5DPZ0

Replacement Pump for Condensate Return & Boiler Feed System

These pumps replace a worn or damaged pump in either one-pump (simplex) or two-pump (duplex) condensate return systems or boiler feed units. Pumps transfer condensate in a collection tank back to the

boiler and are typically mounted vertically at the base of the tank. Replacement pumps should match the brand, series, and manufacturer model number of the condensate return system or the boiler feed unit.

6JHF9

Mfr.			ltem
Model	Compatible with Manufacturer Model Number	Nameplate Voltage	No.
609PF	160010, 160011, 160012, 160013, 160030: 160031, 160032, 160036	115V AC; 230V AC	4RD67



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Seal Kits for Condensate Return & Boiler Feed Systems

Replacement gaskets and seals should match the brand, series, and manufacturer model number of the condensate return system or the boiler feed unit.

Float switch is a mechanical device installed inside a condensate or boiler feed collection tank. It floats upon the rising condensate as the container fills. Once the float reaches a preset level, it triggers the switch to start the pump and evacuate the tank.

Gaskets and Seal Kits keep the pump motor and assembly dry by preventing water from exiting the pump body.

These items wear over time and need to be replaced.

s wear over time and need to be replaced. 6Hi	KZ3
Compatible with Manufacturer Model Number	ltem No.
WC12-20B, WC8-20B, WCS12-20B	6JHF9
160012, 160013, 160018, 160030, 160031, 160032, 160033, 160034, 160035, 161001, 161052, 161054, 609PF	6HKZ5
609PF	6HKZ7
160030, 160032, 609PF	6HKZ3
616, 617, 625, 626, 650	6HKZ8
	Compatible with Manufacturer Model Number WC12-20B, WC8-20B, WCS12-20B 160012, 160013, 160018, 160030, 160031, 160032, 160033, 160034, 160035, 161001, 161052, 161054, 609PF 609PF 160030, 160032, 609PF

WATTS REGULATOR

Thermal Expansion Tanks and Accessories

• Connection size/type: ¾", MIP Steel tank. For use in residential water heater tank installation.



Expansion Tank 419X92



Mfr. Item Model No.

Vent Valve

Features	(in.)	(in.)	(in.)	Includes	Model	No.
Thermal Expansion Tank						
2 gal Capacity, 304 Stainless Steel System Connection, 6 yr Warranty, Butyl Rubber Diaphragm	8 in	8 in	8 in	Factory pre-charged at 40 PSI	60022	419X92
304 Stainless Steel System Connection, 4.5 gal Capacity, 6 yr Warranty, Butyl Rubber Diaphragm	11 in	11 in	11 in	Factory pre-charged at 40 PSI	60023	419X93
		Mate	rial of		Mfr	Item

Item	Inlet	Construc.	Brand	Model	No.
Tank Accessories					
Automatic Dual Air Vent Valve	1/8" MNPT	Brass	Watts	1/8 DUO-VENT NPT	3EJF7
Enhanced Air Separator	1 in NPT	Cast Iron	Watts	1 AS-M1 T	3EJG5
Ellianceu Ali Separatoi	11/4 in NPT	Cast Iron	Watts	11/4 AS-M1 T	3EJG6
Automatic Vent Valve	1/8" MNPT	Brass	Watts	FV-4-1/8	4A820
Automatic vent valve	1/4" MNPT	Brass	Watts	FV-4-1/4	4A821

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