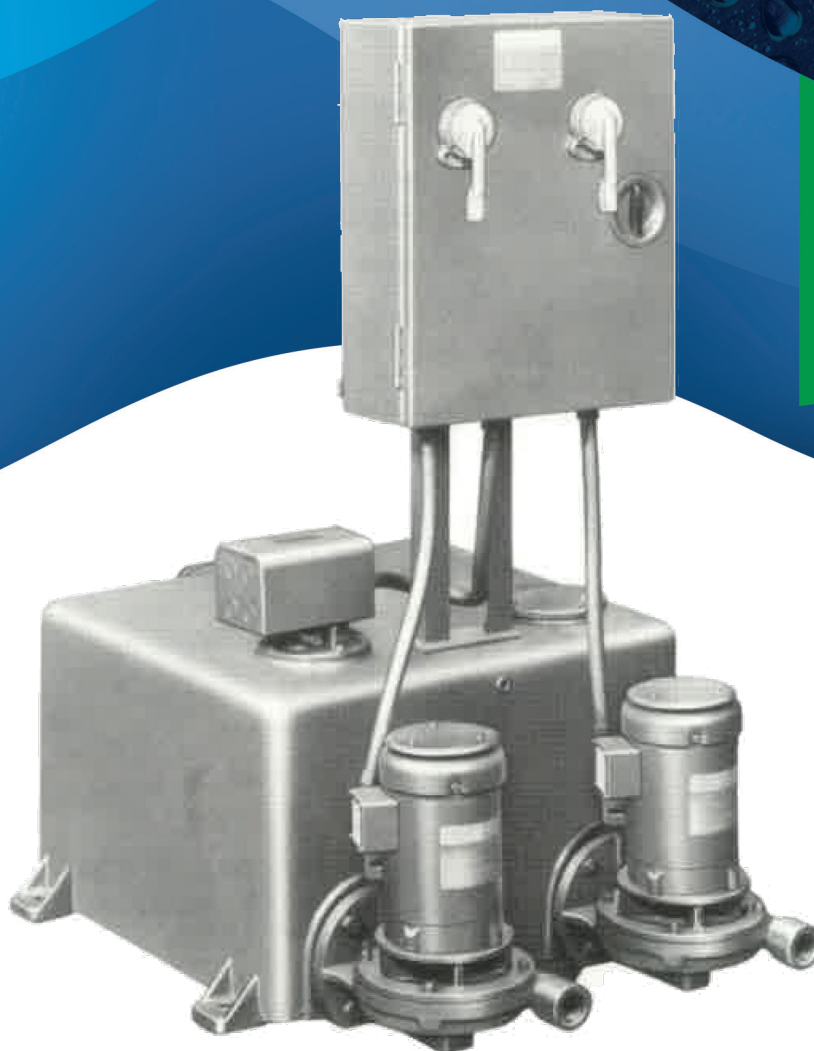


MODEL VCS CONDENSATE RETURN SYSTEMS



**Lockwood
Products**

—CUSTOMIZABLE—
PRODUCT
—CALL FOR DETAILS—



RECEIVERS

Cast iron, rectangular receivers are available with 15 to 110 gallon capacities.

Heavy duty, welded, rust resistant, copper bearing steel receivers are available in rectangular or cylindrical configurations with capacities ranging from 21 to 1,000 gallons.

*Consult your local representative
for custom engineered receivers
and rust resistant linings.*

Lockwood VCS pumping systems are available in simplex, duplex, triplex or quadruplex configurations from 1,000 to 100,000 sq. ft. EDR capacities. Discharge pressures from 10-40 psi are available on units equipped with 1750 RPM motors; 15-75 psi on 3500 RPM units. Standard selections use 1750 RPM motors only on 10 psi applications.

CUSTOM ENGINEERED SOLUTIONS TO COMPLEX PROBLEMS

VJ PUMPS

- 1/2 thru 2 HP
- 3500 RPM (Discharge pressures are 15, 20, 30, 40 or 50 psi)

MOTOR TYPES AVAILABLE:

- Open drip proof (ODP) only
- Single phase, 115/230 V, 60 Hz
- Three phase, 208 or 230/460 V, 60 Hz.

VC PUMPS

- 1/3 thru 15 HP
- 1725 RPM (Discharge pressure are 10, 15, or 20 psi)
- 3500 RPM (Discharge pressures are 30 to 75 psi)

MOTOR TYPES AVAILABLE:

- Open drip proof (ODP)
- Totally enclosed fan cooled (TEFC)
- Explosion proof
- Single phase, 115/230 V, 60 Hz
- Three phase, 208 or 230/460 V, 60 Hz

VE PUMPS*

- 3/4 thru 2 HP
- 1750 RPM (Discharge pressure are 20, 25 or 30 psi)

MOTOR TYPES AVAILABLE:

- Open drip proof (ODP)
- Totally enclosed fan cooled (TEFC)
- Explosion proof
- Single phase, 115/230 V, 60 Hz
- Three phase, 200 V, 60 Hz
- Three phase, 230/460 V, 60 Hz

VA PUMPS*

- 3, 5 or 7 1/2 HP
- 1750 RPM (Discharge pressure are 30 or 40 psi)

MOTOR TYPES AVAILABLE:

- Open drip proof (ODP)
- Totally enclosed fan cooled (TEFC)
- Explosion proof
- Three phase, 200 V, 60 Hz
- Three phase, 230/460 V, 60 Hz

CENTRIFUGAL PUMPS

Four centrifugal models are available in a large selection of sizes to meet your specific application requirements: VC, VJ, VE and VA.

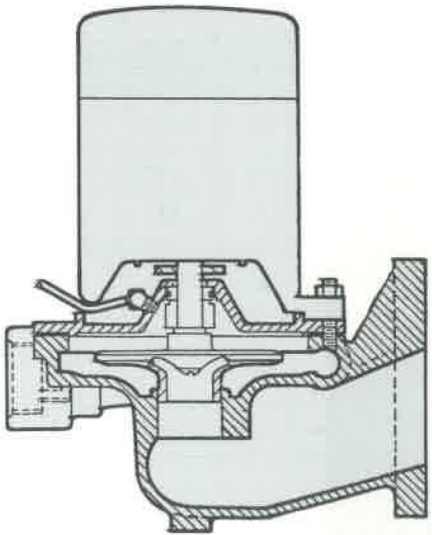
The pumps are bolted directly to the receiver to provide a compact, efficient design. Their close-coupled, centrifugal design with bronze enclosed type impeller assures smooth, efficient water passage. A mechanical seal, rated to a maximum temperature of 220°F, is vented to the receiver to assure adequate lubrication at all times.

All standard selections are rated for condensate temperatures up to 200°F. Consult factory for higher temperature applications, as some pumps are available that have low NPSH capability. These pumps have advanced impeller and volute design that can provide true 2' NPSH capacity without using additional impellers and parts required by other manufacturers.

Designed for long-life, low maintenance and reliable service, the pumps are easily serviceable if necessary. Parts subject to normal wear are readily accessible. Impeller and seal can be serviced without distributing piping or electrical connections.

All pumps are close-coupled to heavy duty, ball bearing electric motors. Fractional horsepower single phase motors have built-in thermal overload protection.

To help you determine the appropriate pump type for your application, specifications for each of the four types are described in the next paragraphs. Refer to selection table for additional pumping system performance data.



TYPICAL PUMP CROSS-SECTION

SELECTION DATA

All selections listed below at 10 psi are 1750 RPM - all others, 3500 RPM except 801 1/2 and 1001 1/2

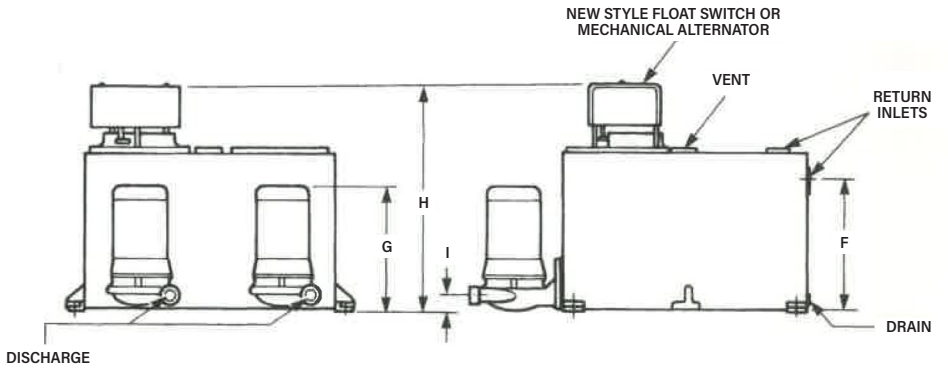
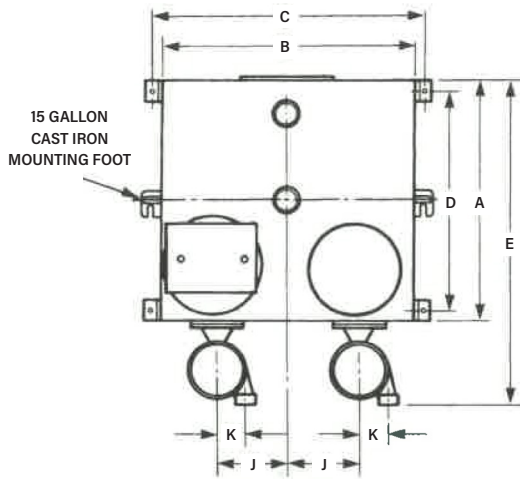
MAX SQ. FT. EDR	RECEIVER SIZE	PUMP CAP. GPM	DISCHARGE PRESSURE AT PUMP	PUMP TYPE	PUMP SIZE	MOTOR HP	RETURN PIPE SIZE	DISCHARGE PIPE SIZE
			10	VCS	-11	1/3		
1,000	15 OR 21	1 1/2	15	VJS	-11 1/2	1/2	2" CAST IRON	1 1/4"
			20		-12	1/2		
			30		-13	1/2		
			40		-14	1		
			50		-15	1 1/2		
			60		-16	2		
			75		-17 1/2	3	2 1/2" STEEL	
			10	VCS	-21	1/3		
2,000	15 OR 21	3	15	VJS	-21 1/2	1/2	2" CAST IRON	1 1/4"
			20		-22	1/2		
			30		-23	1/2		
			40		-24	1		
			50		-25	1 1/2		
			60		-26	2		
			75	VCS	-27 1/2	3		1 1/4"
			10	VCS	-41	1/3		
4,000	15 OR 21	6	15	VJS	-41 1/2	1/2	2" CAST IRON	1 1/4"
			20		-42	1/2		
			30		-43	1/2		
			40		-44	1		
			50		-45	1 1/2		
			60		-46	2		
			75	VCS	-47 1/2	3		1 1/4"
			10	VCS	-61	1/3		
6,000	15 OR 21	9	15	VJS	-61 1/2	1/2	2" CAST IRON	1 1/4"
			20		-62	1/2		
			30		-63	1/2		
			40		-64	1		
			50		-65	2		
			60		-66	2		
			75	VCS	-67 1/2	3		1 1/4"
			10	VCS	-81	1/3		
8,000	15 OR 21	12	15	VJS	-81 1/2	1/2	2" CAST IRON	1 1/4"
			20		-82	1/2		
			30		-83	1/2		
			40		-84	1		
			50		-85	2		
			60		-86	2		
			75	VCS	-87 1/2	3		1 1/4"
			10	VCS	-101	1/3		
10,000	15 OR 21	15	15	VJS	-101 1/2	1/2	2" CAST IRON	1 1/4"
			20		-102	1/2		
			30		-103	3/4		
			40		-104	1		
			50		-105	2		
			60		-106	2		
			75	VCS	-107 1/2	3		1 1/4"
			10	VCS	-151	1/3		1 1/2"
15,000	21	22 1/2	15	VJS	-151 1/2	1/2	2" CAST IRON	1 1/4"
			20		-152	1/2		
			30		-153	3/4		
			40		-154	1		
			50		-155	2		
			60		-156	3		
			75	VCS	-157 1/2	3		1 1/4"
			10	VCS	-201	1/3	2 1/2" STEEL	1 1/2"
20,000	45	30	15	VJS	-201 1/2	1/2	CAST IRON	1 1/4"
			20		-202	3/4		
			30		-203	1		

MAX SQ. FT. EDR	RECEIVER SIZE	PUMP CAP. GPM	DISCHARGE PRESSURE AT PUMP	PUMP TYPE	PUMP SIZE	MOTOR HP	RETURN PIPE SIZE	DISCHARGE PIPE SIZE		
20,000	45	30	40	VJS	-204	1 1/2	2 1/2" CAST IRON	1 1/2"		
			50		-205	2				
			60		-206	3				
			75	VCS	-207 1/2	5	3" STEEL	1 1/4"		
			10	VCS	-251	1/2		1 1/2"		
25,000	45	37 1/2	15	VJS	-251 1/2	1/2	2 1/2" CAST IRON	1 1/4"		
			20		-252	3/4				
			30		-253	1				
			40		-254	1 1/2				
			50		-255	3			3" STEEL	1 1/2"
			60		-256	3	1 1/4"			
			75	VCS	-257 1/2	5	1 1/2"			
			10	VCS	-301	1/2				
30,000	45	45	15	VJS	-301 1/2	1	2 1/2" CAST IRON	1 1/2"		
			20		-302	1				
			30		-303	1 1/2				
			40		-304	2				
			50		-305	3			3" STEEL	1 1/2"
			60		-306	3				
			75	VCS	-307 1/2	7 1/2				
			10	VCS	-401	3/4				
40,000	65	60	15	VJS	-401 1/2	1 1/2	3" CAST IRON	1 1/2"		
			20		-402	1 1/2				
			30		-403	1 1/2				
			40		-404	3			3" STEEL	
			50		-405	5				
			60		-406	5				
			75	VCS	-407 1/2	7 1/2				
			10	VCS	-501	1		2"		
50,000	65	75	15	VJS	-501 1/2	1 1/2	3" CAST IRON	1 1/2"		
			20		-502	1 1/2				
			30		-503	2				
			40		-504	3			3" STEEL	
			50		-505	5				
			60		-506	5				
			75	VCS	-507 1/2	7 1/2				
			10	VCS	-651	1 1/2		2"		
65,000	110	97 1/2	15	VJS	-651 1/2	2	4" CAST IRON	1 1/2"		
			20		-652	2				
			30		-653	3			4" STEEL	2"
			40		-654	5				
			50		-655	5				
							60	VCS	-656	7 1/2
80,000	110	120	10	VCS	-801	1 1/2	5" CAST IRON	2"		
			15		-801 1/2	2				
			20		-802	3				
			30		-803	5			5" STEEL	
			40		-804	5				
			50		-805	7 1/2				
			60	VCS	-806	7 1/2				
100,000	110	150	10	VCS	-1001	1 1/2	5" CAST IRON	2"		
			15		-1001 1/2	2				
			20		-1002	5				
			30		-1003	5			5" STEEL	
			40		-1004	7 1/2				
			50		-1005	7 1/2				
			60	VCS	-1006	10				

The specifications contained in this bulletin were effective at the time of publishing. Lockwood Products reserves the right to discontinue products at any time or to change specifications or design without incurring any obligation.

CONDENSATE RECEIVERS

DUPLEX UNIT
SHOWN WITH STEEL RECEIVER



DIMENSIONAL DATA VC, VJ AND VE PUMPS WITH CAST IRON OR STEEL RECTANGULAR RECEIVERS

CAP. SQ. FT. EDR	RECEIVER CAP. GALS	APPROXIMATE DIMENSIONS										
		A	B	C	D	E	F	G	H	I	J	K
CAST IRON MODELS VCS, VJS, VES												
1,000 TO 4,000	15	15	17 1/2	19 1/2	?	28	13	16 TO 19	22	4	5 1/4	4
1,000 TO 15,000	21	21	22 3/4	26	14 3/4	34	10 1/4 OR TOP	16 TO 21	19 1/2	4	6	4
20,000 TO 30,000	45	26	26 3/4	28 3/4	20	39	15	16 TO 21	23 3/4	4	7 1/2	4
40,000 TO 50,000	65	28 1/2	28 1/2	30 3/4	22 3/4	41 1/2	19 1/2	16 TO 21	29	4 3/4	7 1/2	4
65,000 TO 100,000	110	30	42	36 1/4	32	43	19 1/2	18 TO 28	28 1/2	4	7 1/2	4
STEEL RECEIVERS MODELS VCSS, VJSS, VESS												
1,000 TO 15,000	21	18	24	26 3/8	16 1/8	31	9 OR TOP	16 TO 19	19	4	6	4
20,000 TO 30,000	45	24	24	26 3/8	22 1/8	37	15 1/2 OR TOP	16 TO 21	25	4	6	4
40,000 TO 50,000	65	24	24	26 3/8	22 1/8	37	21 1/2 OR TOP	16 TO 21	30 1/2	4	6	4
65,000 TO 100,000	110	30	42 1/2	45	25	43	17 1/2 OR TOP	18 TO 28	27	4	11	4



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