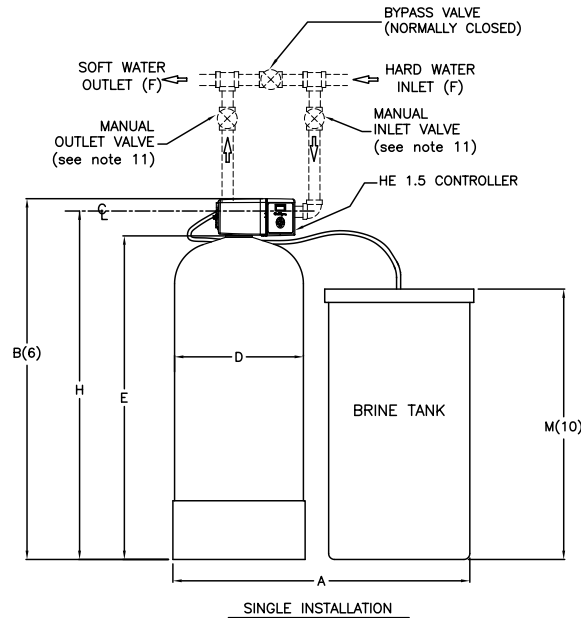
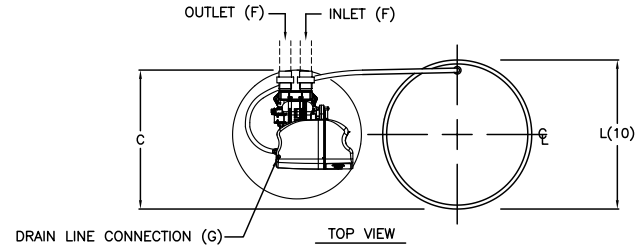


NOTES:

- (1) ITEMS SHOWN IN BROKEN LINES TO BE FURNISHED BY OTHERS.
- (2) ALL DIMENSIONS ARE ± 1 INCH (25mm) AND SUBJECT TO CHANGE WITHOUT NOTICE.
- (3) UNIONS SHOULD BE LOCATED ON INLET AND OUTLET CONNECTIONS OF CONTROL VALVE TO FACILITATE SERVICING.
- (4) THE USE OF DISSIMILAR METALS IN A PIPING SYSTEM IS NOT RECOMMENDED. WHERE DISSIMILAR METALS MUST BE CONNECTED IN A WATER SYSTEM. THE USE OF NONCONDUCTIVE (DIELECTRIC) FITTINGS MAY REDUCE GALVANIC CORROSION.
- (5) AN ELECTRICAL OUTLET SHOULD BE PROVIDED WITHIN FIVE FEET OF THE EQUIPMENT LOCATION.
- (6) ALLOW A MINIMUM OF 24 INCHES ABOVE SOFTENER FOR FILLING.
- (7) TO PERMIT THE OBSERVATION OF THE DRAIN FLOW DO NOT MAKE A DIRECT CONNECTION TO THE DRAIN. PROVIDE AN AIR GAP OF AT LEAST FOUR TIMES THE DIAMETER OF THE DRAIN PIPE OR CONFORM TO LOCAL SANITATION CODES.
- (8) SYSTEM USES FRP TANKS WHICH MUST NOT BE SUBJECTED TO VACUUM. INSTALL SIPHON BREAK ON DRAIN LINE. INSTALL VACUUM BREAKER ON INLET PIPING IF THE SERVICE LINE IS SUBJECT TO A VACUUM.
- (9) FOR MAXIMUM PROTECTION OF THE CONTROLLER, IT IS RECOMMENDED THAT A DEDICATED 120 VOLT CIRCUIT IS PROVIDED.
- (10) BRINE TANK DIMENSIONS SHOWN ARE FOR THE BRINE TANK MOST COMMONLY SELECTED FOR USE WITH THIS SIZE SYSTEM.
- (11) SHIPPING AND OPERATING WEIGHTS SHOWN ON THIS DRAWING INCLUDE THE BRINE SYSTEM.

MODEL	DIMENSIONS (INCHES)									UNIT DATA PER TANK								
	WIDTH A	HEIGHT B(6)	DEPTH C	TANK DIA. D	TANK HEIGHT E	INLET/OUTLET PIPE SIZES F	DRAIN SIZE G	FLOOR TO INLET H	BRINE TANK DIA. L(10)	BRINE TANK HEIGHT M(10)	MAX. CAPACITY KGR @ SALT DOSAGE	RESIN VOLUME ft ³	CONTINUOUS FLOW gpm @ 15 psi drop	PEAK FLOW gpm @ 25 psi drop	DRAIN FLOW gpm	MIN. DRAIN PIPE SIZE IN.	SIMPLEX OPER. WT. lbs.	SIMPLEX SHIP. WT. lbs.
HE-060	38	53	16	14	46	1.5	0.5	50	18	38	60 @ 30	2	25.1	31.5	5.5	0.5	855	257
HE-090	46	60	20	16	53	1.5	0.5	57	24	40	90 @ 45	3	26.6	35.2	5.5	0.5	1245	355
HE-120	46	72	20	16	65	1.5	0.5	69	24	40	120 @ 60	4	23.3	31.8	5.5	0.5	1380	415
HE-150	48	74	21	18	67	1.5	0.5	71	24	40	150 @ 75	5	27.2	35.8	7	0.5	1575	505
HE-210	51	74	22.5	21	67	1.5	0.5	71	24	50	210 @ 105	7	28.0	37.4	11.5	0.5	2075	660



DO NOT SCALE DRAWING
TOLERANCES: ±1/8" UNLESS OTHERWISE NOTED

Let.	Change	By	App	Date

Culligan®
ENGINEERED SYSTEMS
ROSEMONT, ILLINOIS

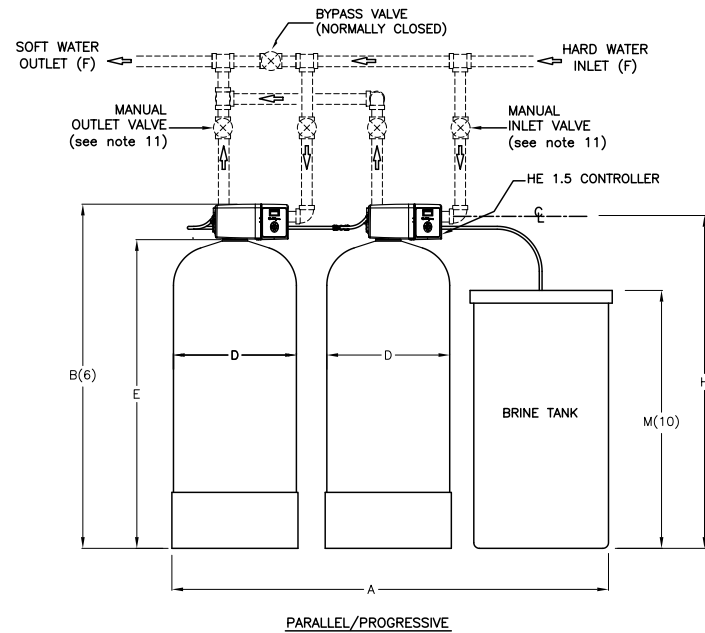
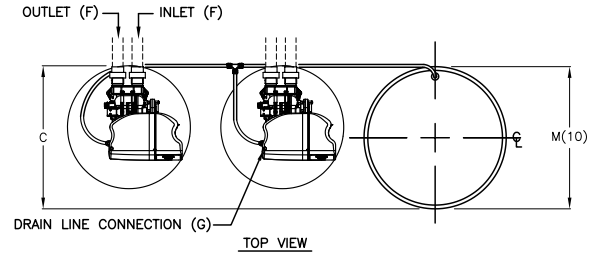
PRINT AND BILL OF MATERIAL ARE NOT TO BE USED WITHOUT THE WRITTEN CONSENT OF CULLIGAN INTERNATIONAL CO.

NAME HE 1.5" AUTOMATIC SOFTENER SINGLE TECHNICAL DATA SHEET		
DETAILED BY: BBV 03/24/11	APP. BY:	SHEET 1 OF 1
REF. NO.	PART NO.	HE 1.5 S-1

NOTES:

- (1) ITEMS SHOWN IN BROKEN LINES TO BE FURNISHED BY OTHERS.
- (2) ALL DIMENSIONS ARE ± 1 INCH (25mm) AND SUBJECT TO CHANGE WITHOUT NOTICE.
- (3) UNIONS SHOULD BE LOCATED ON INLET AND OUTLET CONNECTIONS OF CONTROL VALVE TO FACILITATE SERVICING.
- (4) THE USE OF DISSIMILAR METALS IN A PIPING SYSTEM IS NOT RECOMMENDED. WHERE DISSIMILAR METALS MUST BE CONNECTED IN A WATER SYSTEM, THE USE OF NONCONDUCTIVE (DIELECTRIC) FITTINGS MAY REDUCE GALVANIC CORROSION.
- (5) AN ELECTRICAL OUTLET SHOULD BE PROVIDED WITHIN FIVE FEET OF THE EQUIPMENT LOCATION.
- (6) ALLOW A MINIMUM OF 24 INCHES ABOVE SOFTENER FOR FILLING.
- (7) TO PERMIT THE OBSERVATION OF THE DRAIN FLOW DO NOT MAKE A DIRECT CONNECTION TO THE DRAIN. PROVIDE AN AIR GAP OF AT LEAST FOUR TIMES THE DIAMETER OF THE DRAIN PIPE OR CONFORM TO LOCAL SANITATION CODES.
- (8) SYSTEM USES FRP TANKS WHICH MUST NOT BE SUBJECTED TO VACUUM. INSTALL SIPHON BREAK ON DRAIN LINE. INSTALL VACUUM BREAKER ON INLET PIPING IF THE SERVICE LINE IS SUBJECT TO A VACCUUM.
- (9) FOR MAXIMUM PROTECTION OF THE CONTROLLER, IT IS RECOMMENDED THAT A DEDICATED 120 VOLT CIRCUIT IS PROVIDED.
- (10) BRINE TANK DIMENSIONS SHOWN ARE FOR THE BRINE TANK MOST COMMONLY SELECTED FOR USE WITH THIS SIZE SYSTEM.
- (11) SHIPPING AND OPERATING WEIGHTS SHOWN ON THIS DRAWING INCLUDE THE BRINE SYSTEM.

MODEL	DIMENSIONS (INCHES)										UNIT DATA PER TANK							
	WIDTH A	HEIGHT B(6)	DEPTH C	TANK DIA. D	TANK HEIGHT E	INLET/OUTLET PIPE SIZES F	DRAIN SIZE G	FLOOR TO INLET TO H	BRINE TANK DIA. L(10)	BRINE TANK HEIGHT M(10)	MAX. CAPACITY KGR @ SALT DOSAGE	RESIN VOLUME ft ³	CONTINUOUS FLOW gpm @ 15 psi drop	PEAK FLOW gpm @ 25 psi drop	DRAIN FLOW gpm	MIN. DRAIN PIPE SIZE IN.	DUPLEX OPER. WT. lbs.	DUPLEX SHIP. WT. lbs.
HE-060	58	53	16	14	46	1.5	0.5	50	18	38	60 @ 30	2	25.1	31.5	5.5	0.5	1213	492
HE-090	68	60	20	16	53	1.5	0.5	57	24	40	90 @ 45	3	26.6	35.2	5.5	0.5	1705	675
HE-120	68	72	20	16	65	1.5	0.5	69	24	40	120 @ 60	4	23.3	31.8	5.5	0.5	1925	795
HE-150	72	74	21	18	67	1.5	0.5	71	24	40	150 @ 75	5	27.2	35.8	7	0.5	2265	975
HE-210	78	74	22.5	21	67	1.5	0.5	71	24	50	210 @ 105	7	28.0	37.4	11.5	0.5	2950	1270



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Let.	Change	By	App	Date

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ENGINEERED SYSTEMS
ROSEMONT, ILLINOIS

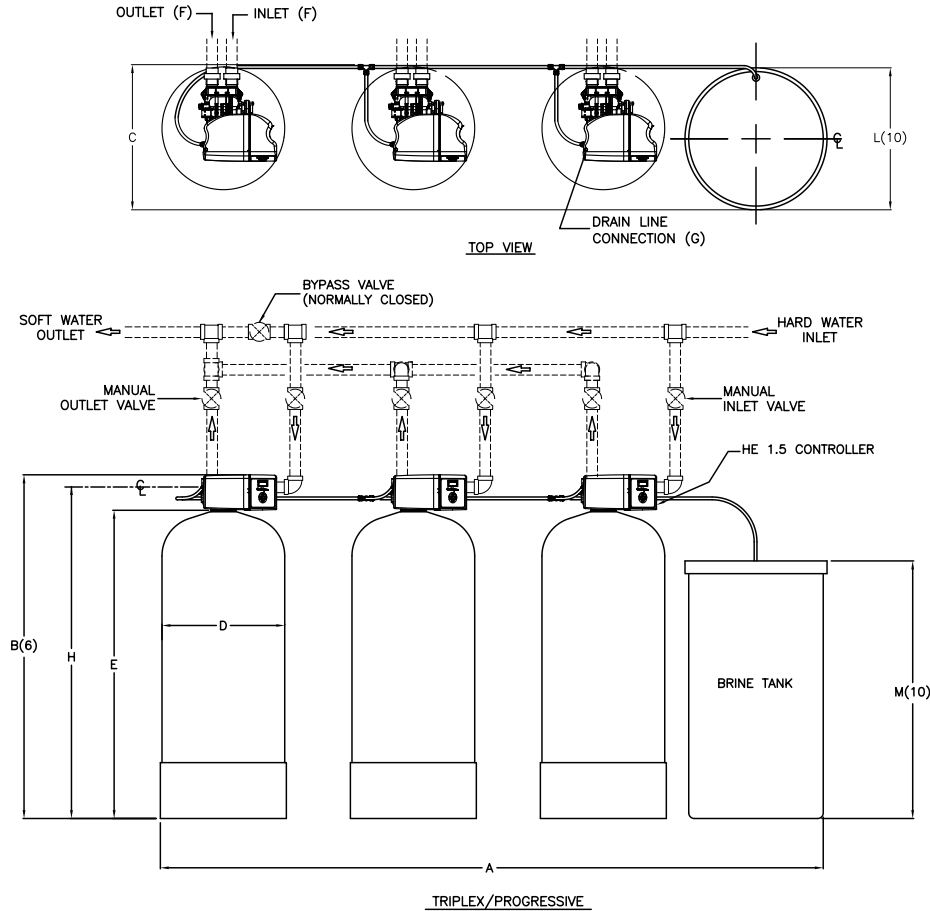
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NAME HE 1.5" AUTOMATIC SOFTENER DUPLEX TECHNICAL DATA SHEET		
DETAILED BY: BBV 03/28/11	APP. BY:	SHEET 1 OF 1
REF. NO.	PART NO. HE 1.5 S-2	

NOTES:

- (1) ITEMS SHOWN IN BROKEN LINES TO BE FURNISHED BY OTHERS.
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- (8) SYSTEM USES FRP TANKS WHICH MUST NOT BE SUBJECTED TO VACUUM. INSTALL SIPHON BREAK ON DRAIN LINE. INSTALL VACUUM BREAKER ON INLET PIPING IF THE SERVICE LINE IS SUBJECT TO A VACCUUM.
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- (10) BRINE TANK DIMENSIONS SHOWN ARE FOR THE BRINE TANK MOST COMMONLY SELECTED FOR USE WITH THIS SIZE SYSTEM.
- (11) SHIPPING AND OPERATING WEIGHTS SHOWN ON THIS DRAWING INCLUDE THE BRINE SYSTEM.

MODEL	DIMENSIONS (INCHES)										UNIT DATA PER TANK							
	WIDTH A	HEIGHT B(6)	DEPTH C	TANK DIA. D	TANK HEIGHT E	INLET/OUTLET PIPE SIZES F	DRAIN SIZE G	FLOOR TO INLET H	BRINE TANK DIA. L(10)	BRINE TANK HEIGHT M(10)	MAX. CAPACITY KGR @ SALT DOSAGE	RESIN VOLUME ft ³	CONTINUOUS FLOW gpm @ 15 psi drop	PEAK FLOW gpm @ 25 psi drop	DRAIN FLOW gpm	MIN. DRAIN PIPE SIZE IN.	DUPLEX OPER. WT. lbs.	DUPLEX SHIP. WT. lbs.
HE-060	78	53	16	14	46	1.5	0.5	50	18	38	60 @ 30	2	25.1	31.5	5.5	0.5	1571	727
HE-090	90	60	20	16	53	1.5	0.5	57	24	40	90 @ 45	3	26.6	35.2	5.5	0.5	2165	995
HE-120	90	72	20	16	65	1.5	0.5	69	24	40	120 @ 60	4	23.3	31.8	5.5	0.5	2470	1175
HE-150	96	74	21	18	67	1.5	0.5	71	24	40	150 @ 75	5	27.2	35.8	7	0.5	2955	1445
HE-210	105	74	22.5	21	67	1.5	0.5	71	24	50	210 @ 105	7	28.0	37.4	11.5	0.5	4450	2000

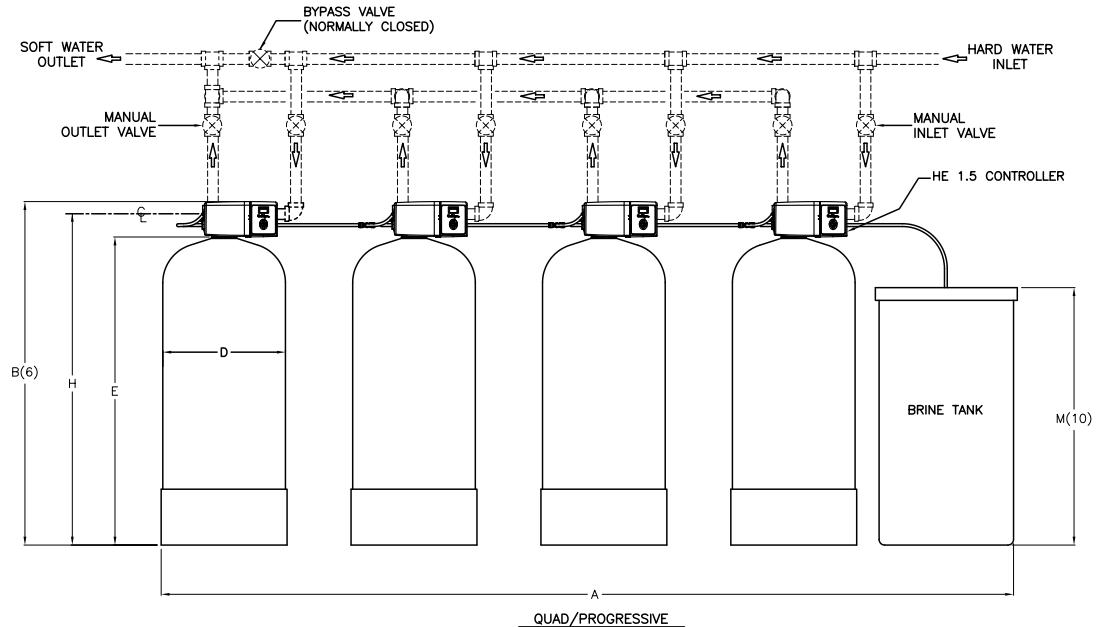
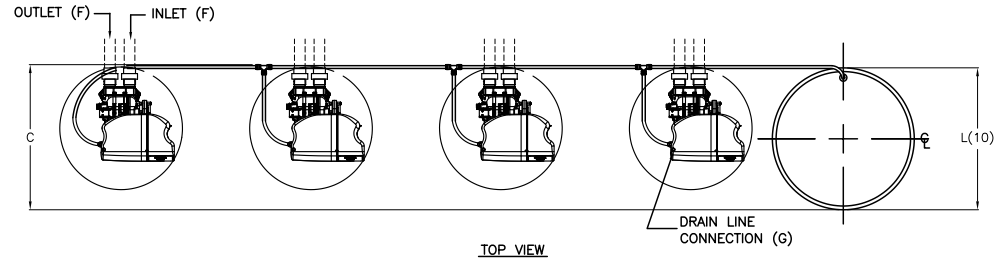


DO NOT SCALE DRAWING TOLERANCES: ±1/8" UNLESS OTHERWISE NOTED				 ENGINEERED SYSTEMS ROSEMONT, ILLINOIS PRINT AND BILL OF MATERIAL ARE NOT TO BE USED WITHOUT THE WRITTEN CONSENT OF CULLIGAN INTERNATIONAL CO.		NAME HE 1.5" AUTOMATIC SOFTENER TRIPLEX TECHNICAL DATA SHEET			
Let.	Change	By	App			Date	DETAILED BY: BBV 03/28/11	APP. BY:	SHEET 1 OF 1
							REF. NO.	PART NO.	HE 1.5 S-3

NOTES:

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MODEL	DIMENSIONS (INCHES)										UNIT DATA PER TANK							
	WIDTH A	HEIGHT B(6)	DEPTH C	TANK DIA. D	TANK HEIGHT E	INLET/OUTLET PIPE SIZES F	DRAIN SIZE G	FLOOR TO INLET H	BRINE TANK DIA. L(10)	BRINE TANK HEIGHT M(10)	MAX. CAPACITY KGR @ SALT DOSAGE	RESIN VOLUME ft ³	CONTINUOUS FLOW gpm @ 15 psi drop	PEAK FLOW gpm @ 25 psi drop	DRAIN FLOW gpm	MIN. DRAIN PIPE SIZE IN.	DUPLEX OPER. WT. lbs.	DUPLEX SHIP. WT. lbs.
HE-060	98	53	16	14	46	1.5	0.5	50	18	38	60 @ 30	2	25.1	31.5	5.5	0.5	1929	962
HE-090	112	60	20	16	53	1.5	0.5	57	24	40	90 @ 45	3	26.6	35.2	5.5	0.5	2625	1315
HE-120	112	72	20	16	65	1.5	0.5	69	24	40	120 @ 60	4	23.3	31.8	5.5	0.5	3015	1555
HE-150	120	74	21	18	67	1.5	0.5	71	24	40	150 @ 75	5	27.2	35.8	7	0.5	3645	1915
HE-210	147	74	22.5	21	67	1.5	0.5	71	24	50	210 @ 105	7	28.0	37.4	11.5	0.5	5600	2640



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Let.	Change	By	App	Date

Culligan®
ENGINEERED SYSTEMS
 ROSEMONT, ILLINOIS

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NAME HE 1.5" AUTOMATIC SOFTENER QUAD TECHNICAL DATA SHEET		
DETAILED BY: BBV 03/28/11	APP. BY:	SHEET 1 OF 1
REF. NO.	PART NO. HE 1.5 S-4	