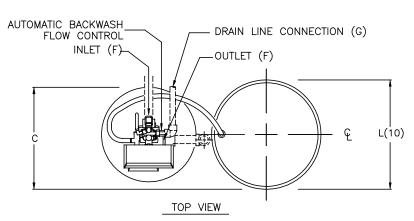
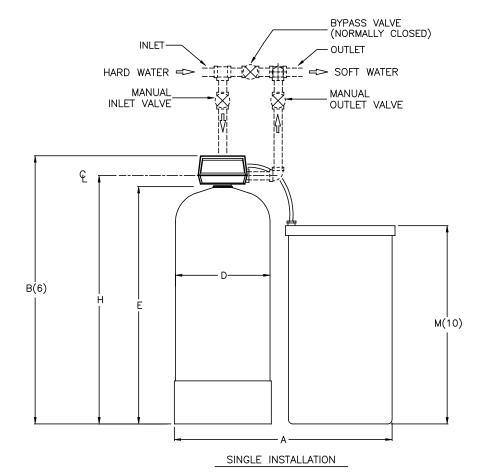
- (1) ITEMS SHOWN IN BROKEN LINES TO BE FURNISHED BY OTHERS.
- (2) ALL DIMENSIONS ARE  $\pm$  1 INCH (25mm) AND SUBJECT TO CHANGE WITHOUT NOTICE.
- (3) UNIONS SHOULD BE LOCATED ON INLET AND OUTLET CONNECTIONS OF CONTROL VALVE TO FACILITATE SERVICING.
- (4) THE USE OF DISSIMILAR METALS IN A PIPING SYSTEM 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) WHEN USING A WATER METER, THERE MUST BE A MINIMUM AMOUNT OF STRAIGHT PIPE BEFORE AND AFTER THE SENSOR. REFER TO THE INSTALLATION INSTRUCTIONS FOR DETAILS.
- (9) 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 VACCUM.
- (10) BRINE TANK DIMENSIONS SHOWN ARE FOR THE BRINE TANK MOST COMMONLY SELECTED FOR USE WITH THIS SIZE SYSTEM.

					DIM	ENSIONS (INCH	ES)				UNIT DATA PER TANK							
	WIDTH	HEIGHT			TANK HEIGHT	INLET/OUTLET PIPE SIZES	DRAIN SIZE	FLOOR TO INLET	TANK DIA.	HEIGHT	CAPACITY KGR @ SALT	RESIN VOLUME	CONTINUOUS FLOW gpm @ 15	FLOW		MIN. DRAIN PIPE SIZE		SIMPLEX SHIP. WT.
MODEL	Α	B(6)	С	D	E	F	G	Н	L(10)	M(10)	DOSAGE	ft <sup>3</sup>	psi drop	psi drop	gpm	IN.	lbs.	lbs.
HC-60-1.5	37	59	19	12	52	1.5	1.0	55	18	38	60 <b>@</b> 30	2	22	29	3.5	0.75	800	255
HC-90-1.5	45	72	24	14	65	1.5	1.0	68	24	40	90 @ 45	3	29	37	5	0.75	1255	345
HC-120-1.5	47	72	24	16	65	1.5	1.0	68	24	40	120 @ 60	4	29	37	8	1.0	1405	440
HC-150-1.5	50	73	24	18	65	1.5	1.0	69	24	50	150 <b>@</b> 75	5	40	55	8	1.0	1585	530





	DO NOT SCALE DRAW TOLERANCES: ±1/8" UNLESS O		WISE	NOTED	
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Culigan®
ENGINEERED SYSTEMS
ROSEMONT, ILLINOIS

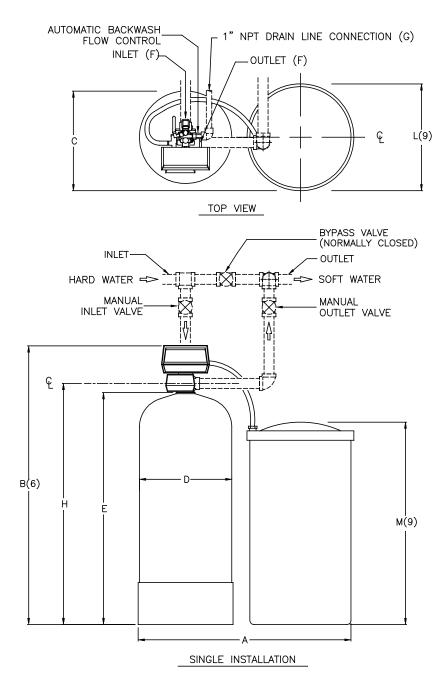
PRINT AND BILL OF MATERIAL ARE NOT TO BE USED WITHOUT THE WRITTEN CONSENT OF CULLIGAN INTERNATIONAL CO. ME HI-FLO® 3
AUTOMATIC SOFTENER SINGLE
TECHNICAL DATA SHEET

DETAILED BY: APP. BY: SHEET KMR 5/03/05 KSR 01/11/10 1 0F 1

REF. NO. PART NO. S3\_2850\_1

- (1) ITEMS SHOWN IN BROKEN LINES TO BE FURNISHED
- (2) ALL DIMENSIONS ARE  $\pm$  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 VACCUM.
- (9) BRINE TANK DIMENSIONS SHOWN ARE FOR THE BRINE TANK MOST COMMONLY SELECTED FOR USE WITH THIS SIZE SYSTEM.

					DIM	ENSIONS (INCH	ES)				UNIT DATA PER TANK							
	WIDTH	HEIGHT		DIA.	TANK HEIGHT	INLET/OUTLET PIPE SIZES	SIZE	INLET	TANK DIA.	HEIGHT	CAPACITY KGR @ SALT	RESIN VOLUME	31	FLOW gpm @ 25	FLOW		OPER. WT.	SIMPLEX SHIP. WT.
MODEL	A	B(6)	С	D	E	F	G	Н	L(9)	M(9)	DOSAGE	ft <sup>3</sup>	psi drop	psi drop	gpm	IN.	lbs.	lbs.
HC-120	46	78	20	16	65.2	2.0	1.0	67.4	24	50	120 @ 60	4	45	60	8	1.0	1630	465
HC-150	48	79	21	18	66.3	2.0	1.0	68.5	24	50	150 @ 75	5	60	78	8	1.0	1810	555
HC-210	51	80	22.5	21	67.1	2.0	1.0	69.3	24	50	210 @ 105	7	58	76	8	1.0	1970	680
HC-300	60	87	27	24	74.7	2.0	1.0	76.9	30	50	300 @ 150	10	65	85	15	1.25	2775	935
HC-450	66	92	30	30	78.9	2.0	1.0	81.1	30	50	450 @ 225	15	75	100	25	1.5	3580	1420



	DO NOT SCALE DRAV TOLERANCES: ±1/8" UNLESS O		WISE	NOTED	Cullia
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zan<sup>®</sup> OSYSTEMS **ILLINOIS** 

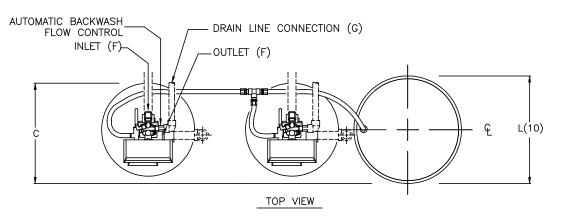
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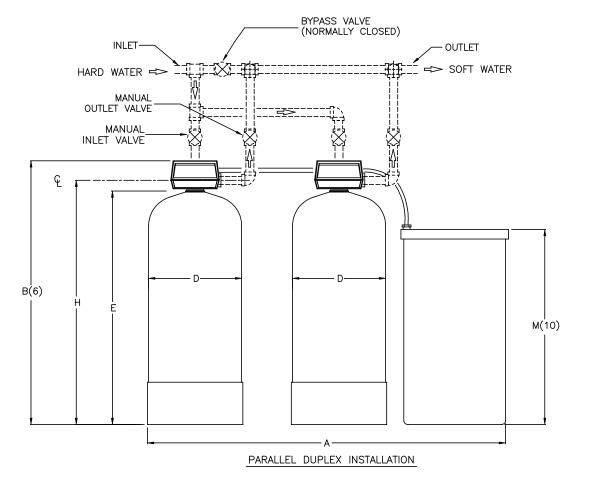
HI−FLO® 3 AUTOMATIC SOFTENER SINGLE TECHNICAL DATA SHEET

	DETAILED BY:	APP. BY:	SHEET
	KMR 5/03/05		1 OF 1
	REF. NO.	PART NO.	
0.		5.3	1

- (1) ITEMS SHOWN IN BROKEN LINES TO BE FURNISHED BY OTHERS.
- (2) ALL DIMENSIONS ARE  $\pm$  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) WHEN USING A WATER METER, THERE MUST BE A MINIMUM AMOUNT OF STRAIGHT PIPE BEFORE AND AFTER THE SENSOR. REFER TO THE INSTALLATION INSTRUCTIONS FOR DETAILS.
- (9) 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 VACCUM.
- (10) BRINE TANK DIMENSIONS SHOWN ARE FOR THE BRINE TANK
  MOST COMMONLY SELECTED FOR USE WITH THIS SIZE SYSTEM.

					DIM	ENSIONS (INCH	ES)					UNIT DAT	TA PER TANK					
		HEIGHT	DEPTH C	TANK DIA. D	TANK HEIGHT	INLET/OUTLET PIPE SIZES	DRAIN SIZE G	FLOOR TO INLET H	TANK DIA.		CAPACITY KGR @ SALT	RESIN	CONTINUOUS FLOW gpm @ 15 psi drop	FLOW	FLOW	MIN. DRAIN PIPE SIZE IN.		DUPLEX SHIP. WT. Ibs.
MODEL	A	B(6)		U	<u> </u>	F	G	Н	L(10)	M(10)	DUSAGE	Tt -	psi arop	psi arop	gpm	IIN.	IDS.	IDS.
HC-60-1.5	58	59	19	12	52	1.5	1.0	55	18	38	60 @ 30	2	22	29	3.5	0.75	1100	488
HC-90-1.5	68	72	24	14	65	1.5	1.0	68	24	40	90 @ 45	3	29	37	5	0.75	1725	655
HC-120-1.5	72	72	24	16	65	1.5	1.0	68	24	40	120 @ 60	4	29	37	8	1.0	1975	845
HC-150-1.5	82	73	24	18	65	1.5	1.0	69	24	40	150 <b>@</b> 75	5	40	55	8	1.0	2365	1025





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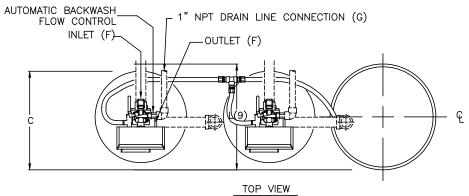
# Culligan® ENGINEERED SYSTEMS ROSEMONT, ILLINOIS

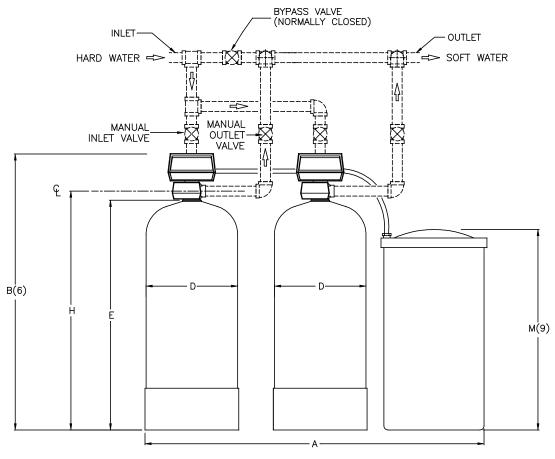
PRINT AND BILL OF MATERIAL ARE NOT TO BE USED WITHOUT THE WRITTEN CONSENT OF CULLIGAN INTERNATIONAL CO. HI-FLO® 3
AUTOMATIC SOFTENER DUPLEX
TECHNICAL DATA SHEET

DETAILED BY: APP. BY: SHEET KMR 5/03/05 KSR 01/11/10 1 0F 1 REF. NO. PART NO. S3\_2850\_2

- (1) ITEMS SHOWN IN BROKEN LINES TO BE FURNISHED BY OTHERS.
- (2) ALL DIMENSIONS ARE  $\pm$  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 VACCUM.
- (9) BRINE TANK DIMENSIONS SHOWN ARE FOR THE BRINE TANK MOST COMMONLY SELECTED FOR USE WITH THIS SIZE SYSTEM.

					DIM	ENSIONS (INCH	ES)				ι	PER TANK						
MODE		HEIGHT	DEPTH C	TANK SIZE	TANK HEIGHT	. ,	DRAIN SIZE G	FLOOR TO INLET H	TANK DIA.	HEIGHT	MAX. CAPACITY KGR @ SALT DOSAGE	RESIN VOLUME ft <sup>3</sup>	"	FLOW gpm @ 25	FLOW	MIN. DRAIN PIPE SIZE IN.	OPER. WT.	DUPLEX SHIP. WT.
MODEL HC-120	72	B(6) 78	20	D 16 X 65	65.2	2.0	1.0	67.4	L(9) 24	M(9) 50	120 @ 60	4	psi drop 45	psi drop 60	gpm 8	1.0	lbs. 2210	lbs. 880
HC-150	76	79	21	18 X 65	66.3	2.0	1.0	68.5	24	50	150 @ 75	5	60	78	8	1.0	2600	1060
HC-210	82	80	22.5	21 X 62	67.1	2.0	1.0	69.3	24	50	210 @ 105	7	58	76	8	1.0	2950	1310
HC-300	94	87	27	24 X 72	74.7	2.0	1.0	76.9	30	50	300 @ 150	10	65	85	15	1.25	4080	1800
HC-450	106	92	30	30 X 72	78.9	2.0	1.0	81.1	30	50	450 <b>@</b> 225	15	75	100	25	1.5	5590	2770





## PARALLEL DUPLEX INSTALLATION

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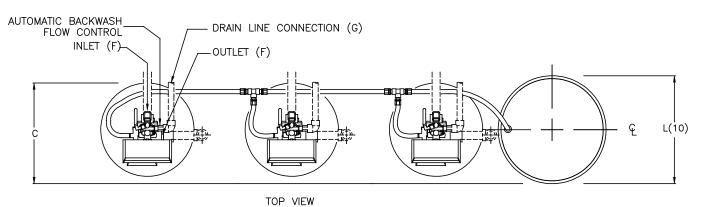
ERIAL ARE NOT THE WRITTEN CONSENT OF CULLIGAN INTERNATIONAL CO.

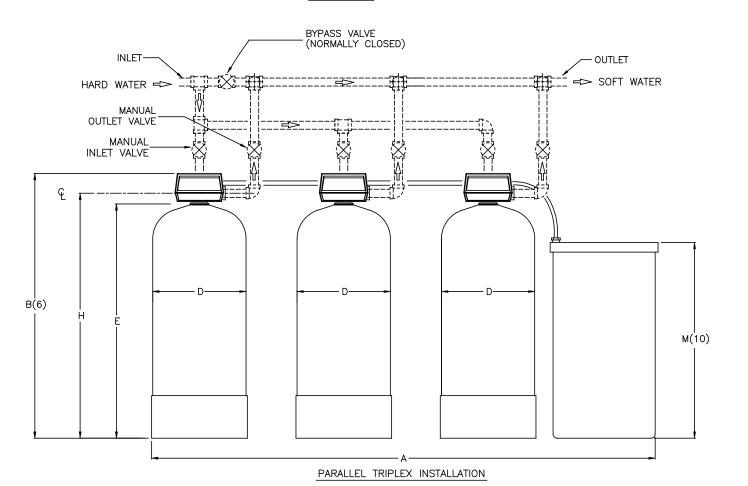
HI−FLO<sub>®</sub> 3 AUTOMATIC SOFTENER DUPLEX TECHNICAL DATA SHEET

DETAILED BY: APP. BY: KMR 5/03/05 KSR 01/11/10 1 OF 1 REF. NO. PART NO. S3\_2

- (1) ITEMS SHOWN IN BROKEN LINES TO BE FURNISHED BY OTHERS.
- (2) ALL DIMENSIONS ARE  $\pm$  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.
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- (6) ALLOW A MINIMUM OF 24 INCHES ABOVE SOFTENER FOR FILLING.
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- (8) WHEN USING A WATER METER, THERE MUST BE A MINIMUM AMOUNT OF STRAIGHT PIPE BEFORE AND AFTER THE SENSOR. REFER TO THE INSTALLATION INSTRUCTIONS FOR DETAILS.
- (9) 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 VACCUM.
- (10) BRINE TANK DIMENSIONS SHOWN ARE FOR THE BRINE TANK MOST COMMONLY SELECTED FOR USE WITH THIS SIZE SYSTEM.

					DIM	ENSIONS (INCH	ES)					UNIT DA	TA PER TANK					
	WIDTH	HEIGHT	DEPTH	TANK DIA.	TANK HEIGHT	INLET/OUTLET PIPE SIZES	DRAIN SIZE	FLOOR TO INLET	TANK		MAX. CAPACITY KGR @ SALT	RESIN VOLUME	CONTINUOUS FLOW gpm @ 15	FLOW	ı	MIN. DRAIN PIPE SIZE		TRIPLEX SHIP. WT.
MODEL	Α	B(6)	С	D	E	F	G	Н	L(10)	M(10)	DOSAGE	ft <sup>3</sup>	psi drop	psi drop	gpm	IN.	lbs.	lbs.
HC-60-1.5	79	59	19	12	52	1.5	1.0	55	18	38	60 @ 30	2	22	29	3.5	0.75	1400	721
HC-90-1.5	91	72	24	14	65	1.5	1.0	68	24	40	90 @ 45	3	29	37	5	0.75	2195	965
HC-120-1.5	97	72	24	16	65	1.5	1.0	68	24	40	120 @ 60	4	29	37	8	1.0	2545	1250
HC-150-1.5	114	73	24	18	65	1.5	1.0	69	24	40	150 <b>@</b> 75	5	40	55	8	1.0	3145	1520





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

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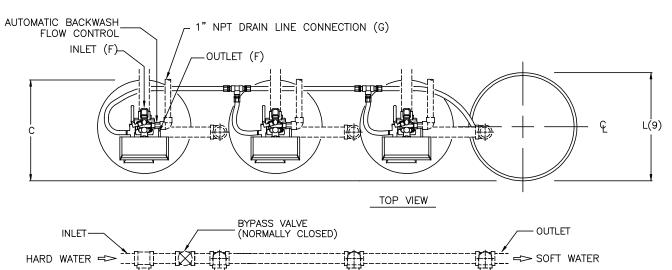
ENGINEERED SYSTEMS
ROSEMONT, ILLINOIS

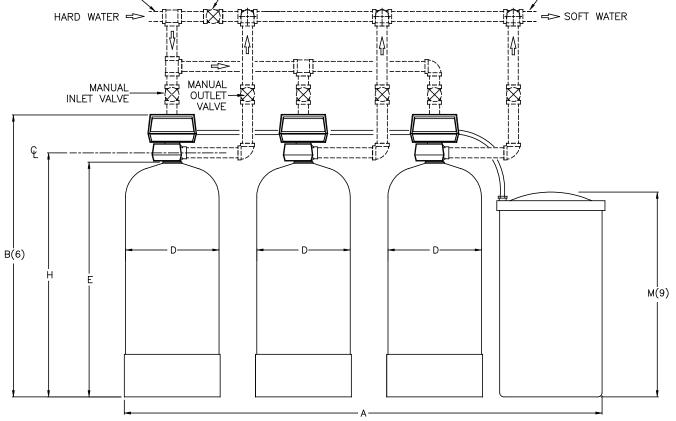
PRINT AND BILL OF MATERIAL ARE NOT TO BE USED WITHOUT THE WRITTEN CONSENT OF CULLIGAN INTERNATIONAL CO. NAME HI-FLO® 3
AUTOMATIC SOFTENER TRIPLEX
TECHNICAL DATA SHEET

DETAILED BY: APP. BY: SHEET KMR 5/03/05 KSR 01/11/10 1 OF 1 REF. NO. PART NO. S3\_2850\_2

- (1) ITEMS SHOWN IN BROKEN LINES TO BE FURNISHED BY OTHERS.
- (2) ALL DIMENSIONS ARE  $\pm$  1 INCH (25mm) AND SUBJECT TO CHANGE WITHOUT NOTICE.
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- (9) BRINE TANK DIMENSIONS SHOWN ARE FOR THE BRINE TANK MOST COMMONLY SELECTED FOR USE WITH THIS SIZE SYSTEM.

					DIM	ENSIONS (INCH	ES)				L	JNIT DATA	PER TANK						
			DEPTH		HEIGHT	INLET/OUTLET PIPE SIZES	SIZE	FLOOR TO	DIA.	TANK HEIGHT	MAX. CAPACITY KGR @ SALT	RESIN VOLUME	CONTINUOUS FLOW gpm @ 15	FLOW gpm @ 25	FLOW		OPER. WT.		
MODEL	A	B(6)	С	D	E	F	G	Н	L(9)	M(9)	DOSAGE	ft <sup>3</sup>	psi drop	psi drop	gpm	IN.	lbs.	lbs.	
HC-120	98	78	20	16	65.2	2.0	1.0	67.4	24	50	120 @ 60	4	45	60	8	1.0	2790	1295	
HC-150	104	79	21	18	66.3	2.0	1.0	68.5	24	50	150 @ 75	5	60	78	8	1.0	3390	1565	
HC-210	113	80	22.5	21	67.1	2.0	1.0	69.3	24	50	210 @ 105	7	58	76	8	1.0	3930	1940	
HC-300	128	87	27	24	74.7	2.0	1.0	76.9	30	50	300 @ 150	10	65	85	15	1.25	5385	2665	
HC-450	146	92	30	30	78.9	2.0	1.0	81.1	30	50	450 <b>@</b> 225	15	75	100	25	1.5	7600	4120	





## PARALLEL AND ALTERNATING TRIPLEX INSTALLATION

DO NOT SCALE DRAWING TOLERANCES: ±1/8" UNLESS OTHERWISE NOTED By App Date Change ROSEMONT, ILLINOIS

ENGINEERED OSYSTEMS

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

HI−FLO® 3 AUTOMATIC SOFTENER TRIPLEX TECHNICAL DATA SHEET

APP. BY: DETAILED BY: KMR 5/03/05 KSR 01/11/10 1 OF 1 REF. NO. PART NO. S3\_3