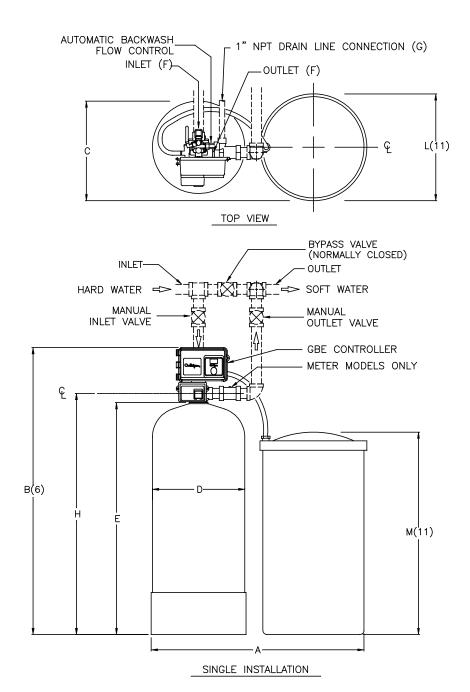
- (1) ITEMS SHOWN IN BROKEN LINES TO BE FURNISHED BY OTHERS
- (2) ALL DIMENSIONS ARE  $\pm$  1 INCH (25mm) AND SUBJECT TO CHANGE WITHOUT NOTICE.
- (3) UNIONS SHOULD BE LOCATED ON INLET AND OUTLET CONNECTIONS OF CONTROL VALVE TO FACILITATE SERVICING.
- (4) THE USE OF DISSIMILAR METALS IN A PIPING SYSTEM 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) FOR MAXIMUM PROTECTION OF THE CONTROLLER, IT IS RECOMMENDED THAT A DEDICATED 120 VOLT CIRCUIT IS PROVIDED.
- (11) 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							
MODEL	WIDTH A	HEIGHT B(6)		TANK DIA. D	TANK HEIGHT E	INLET/OUTLET PIPE SIZES F	DRAIN SIZE G	FLOOR TO INLET H	TANK DIA.		MAX. CAPACITY KGR @ SALT DOSAGE	RESIN VOLUME ft <sup>3</sup>	CONTINUOUS FLOW gpm @ 15 psi drop			MIN. DRAIN PIPE SIZE IN.		SIMPLEX SHIP. WT. Ibs.
HCE-120-2	46	78	20	16	65.2	2.0	1.0	67.4	24	50	120 @ 60	4	45	60	8	1.0	1630	465
HCE-150-2	48	79	21	18	66.3	2.0	1.0	68.5	24	50	150 @ 75	5	60	78	8	1.0	1810	555
HCE-210-2	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
HCE-300-2	60	87	27	24	74.7	2.0	1.0	76.9	30	50	300 @ 150	10	65	85	15	1.25	2775	935
HCE-450-2	66	92	30	30	78.9	2.0	1.0	81.1	30	50	450 <b>@</b> 225	15	75	100	25	1.5	3580	1420



	DO NOT SCALE DRAV TOLERANCES: ±1/8" UNLESS O		WISE	NOTED	Culigan® ENGINEERED SYSTEMS
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					ROSEMONT, ILLINOIS
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				·	PRINT AND BILL OF MATERIAL ARE NOT TO BE USED WITHOUT THE WRITTEN

PED SYSTEMS

NAME HI-FLO® 3e

AUTOMATIC SOFTENER SINGLE

TECHNICAL DATA SHEET

ROSEMONT, ILLINOIS

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

DETAILED BY:
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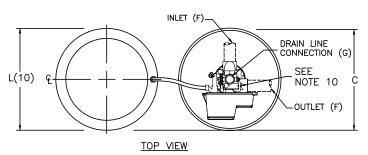
REF. NO.
PART NO.
S3e\_1\_MVP

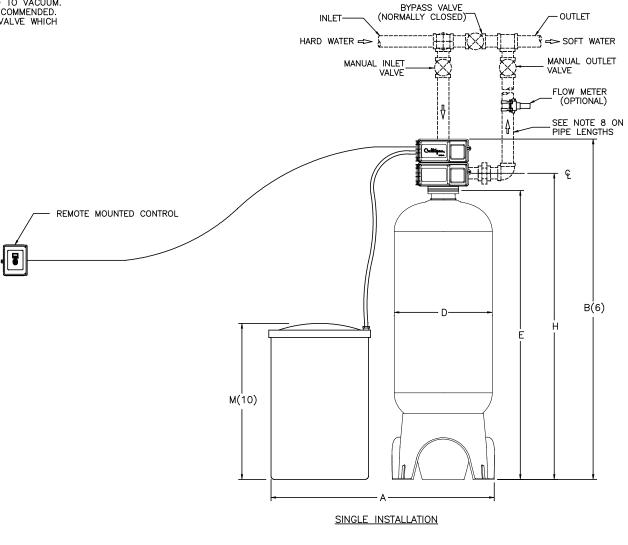
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- (2) ALL DIMENSIONS ARE  $\pm$  1 INCH (25mm) AND SUBJECT TO CHANGE WITHOUT NOTICE.
- (3) UNIONS SHOULD BE LOCATED ON INLET AND OUTLET CONNECTIONS OF HARNESS TO FACILITATE SERVICING.
- (4) THE USE OF DISSIMILAR METALS IN A PIPING SYSTEM IS NOT RECOMMENDED. 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) DO NOT MAKE A DIRECT CONNECTION TO THE DRAIN. PROVIDE AN AIR GAP OF AT LEAST FOUR TIMES THE DRAIN PIPE OR CONFORM TO LOCAL SANITATION CODES. A SIPHON BREAK SHOULD ALSO BE INSTALLED ON THE DRAIN LINE. SEE DETAIL BELOW FOR RECOMMENDED DRAIN CONFIGURATION.
- (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) BRINE TANK DIMENSIONS SHOWN ARE FOR THE BRINE TANK MOST COMMONLY SELECTED FOR USE WITH THIS SIZE SYSTEM
- (10) SYSTEM USES FRP TANKS WHICH MUST NOT BE SUBJECTED TO VACUUM. INSTALLATION OF VACUUM BREAKERS ON EACH TANK IS RECOMMENDED. THESE SYSTEMS PROVIDE A CONNECTION ON THE SIDE OF VALVE WHICH CAN BE USED TO MOUNT VACUUM BREAKER.

DRAIN SIPHON BREAK DETAIL SEE NOTE 7

TO DRAIN

					DIM	ENSIONS (INCH	ES)			UNIT DATA PER TANK								
	WIDTH	HEIGHT	DEPTH	TANK DIA.	TANK HEIGHT	INLET/OUTLET PIPE SIZES	DRAIN SIZE	FLOOR TO INLET	TANK		MAX. CAPACITY KGR @ SALT	RESIN	CONTINUOUS FLOW gpm @ 15	FLOW		MIN. DRAIN PIPE SIZE		SINGLE SHIP. WT.
MODEL	Α	B(6)	C	D	E	F	G	Н	L(10)	M(10)	DOSAGE	ft <sup>3</sup>	psi drop	psi drop	gpm	IN.	lbs.	lbs.
HCE-450-3	68.7	104.7	31.5	30	88.9	3.0	2.0	94.2	30	48	450 <b>©</b> 150	15	160	210	20	1.25	4112	1548
HCE-600-3	85.4	106.2	38.9	36	90.4	3.0	2.0	95.7	39	48	600 @ 200	20	185	250	30	1.25	5731	1976
HCE-900-3	93.5	105.9	44.6	42	90.1	3.0	2.0	95.4	42	48	900 @ 300	30	200	270	35	2	8008	3103
HCE-1200-3	105.6	108.7	50.8	48	92.9	3.0	2.0	98.2	48	60	1200 @ 400	40	215	280	45	2	10352	4052





	DO NOT SCALE DRAWING TOLERANCES: $\pm 1/8"$ 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.

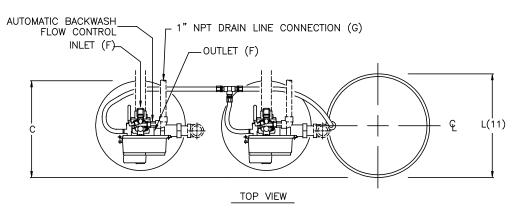
E HI-FLO @ 3e, 3900 AUTOMATIC SOFTENER SINGLE TECHNICAL DATA SHEET

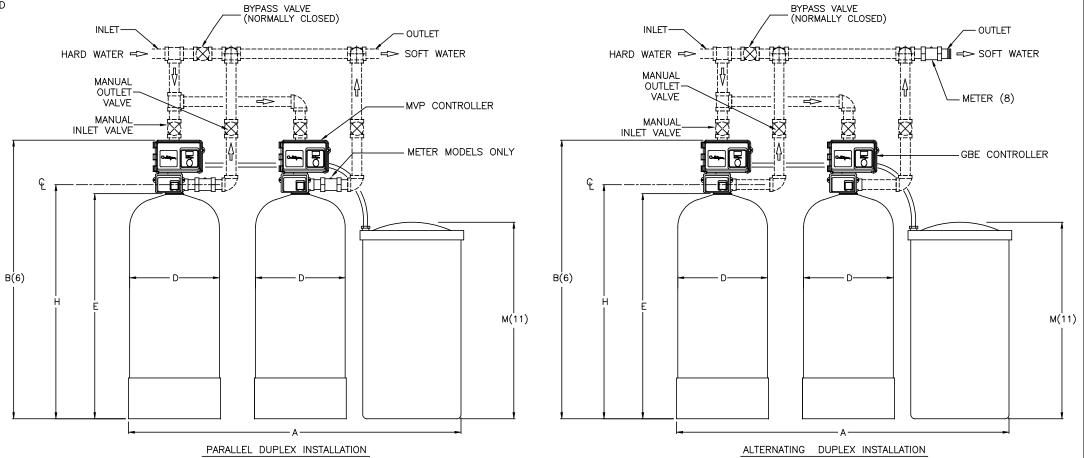
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MKM 1/28/09 1 0F 1

REF. NO. PART NO.
HCE—SINGLE

- (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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- (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.
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- (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) FOR MAXIMUM PROTECTION OF THE CONTROLLER, IT IS RECOMMENDED THAT A DEDICATED 120 VOLT CIRCUIT IS PROVIDED.
- (11) 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	DEPTH		TANK HEIGHT	INLET/OUTLET PIPE SIZES	DRAIN SIZE	FLOOR TO INLET		TANK	MAX. CAPACITY KGR @ SALT	RESIN VOLUME	CONTINUOUS FLOW gpm @ 15	FLOW		MIN. DRAIN PIPE SIZE		DUPLEX SHIP. WT.
MODEL	Α	B(6)	С	D	Е	F	G	Н	L(11)	M(11)	DOSAGE	ft <sup>3</sup>	psi drop	psi drop	gpm	IN.	lbs.	lbs.
HCE-120-2	72	78	20	16	65.2	2.0	1.0	67.4	24	50	120 @ 60	4	45	60	8	1.0	2210	880
HCE-150-2	76	79	21	18	66.3	2.0	1.0	68.5	24	50	150 @ 75	5	60	78	8	1.0	2600	1060
HCE-210-2	82	80	22.5	21	67.1	2.0	1.0	69.3	24	50	210 @ 105	7	58	76	8	1.0	2950	1310
HCE-300-2	94	87	27	24	74.7	2.0	1.0	76.9	30	50	300 @ 150	10	65	85	15	1.25	4080	1800
HCE-450-2	106	92	30	30	78.9	2.0	1.0	81.1	30	50	450 <b>@</b> 225	15	75	100	25	1.5	5590	2770





	DO NOT SCALE DRAWING TOLERANCES: ±1/8" UNLESS OTHERWISE NOTED													
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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® 3e
AUTOMATIC SOFTENER DUPLEX
TECHNICAL DATA SHEET

DETAILED BY: APP. BY: SHEET KMR 5/03/05 KSR 01/19/10 1 OF 1

REF. NO. PART NO. S3e\_2\_MVP

#### UNIT DATA PER TANK DIMENSIONS (INCHES) CONTINUOUS (1) ITEMS SHOWN IN BROKEN LINES TO BE FURNISHED TANK | TANK | INLET/OUTLET | DRAIN | FLOOR TO TANK TANK CAPACITY RESIN FLOW FLOW DRAIN MIN. DRAIN DUPLEX DUPLEX HEIGHT DEPTH DIA. HEIGHT PIPE SIZES SIZE DIA. HEIGHT KGR @ SALT VOLUME gpm @ 15 gpm @ 25 FLOW PIPE SIZE OPER. WT. SHIP. WT. WIDTH INLET BY OTHERS. ft <sup>3</sup> MODEL B(6) С D Ε L(10) M(10) DOSAGE psi drop psi drop IN. gpm (2) ALL DIMENSIONS ARE $\pm$ 1 INCH (25mm) AND SUBJECT TO CHANGE WITHOUT NOTICE. 104.7 31.5 30 88.9 HCE-450-3 110.9 3.0 2.0 94.2 30 48 | 450 **©** 150 15 160 210 20 1.25 (3) UNIONS SHOULD BE LOCATED ON INLET AND OUTLET 2.0 HCE-600-3 133.5 106.2 38.9 36 90.4 3.0 95.7 39 48 600 **©** 200 20 185 250 30 1.25 CONNECTIONS OF HARNESS TO FACILITATE SERVICING. HCE-900-3 147.7 105.9 44.6 42 90.1 3.0 2.0 95.4 42 48 900 **©** 300 30 200 270 35 2 (4) THE USE OF DISSIMILAR METALS IN A PIPING SYSTEM IS NOT RECOMMENDED. WHERE DISSIMILAR METALS MUST BE CONNECTED HCE-1200-3 165.9 108.7 50.8 2.0 48 45 48 92.9 3.0 98.2 60 1200 @ 400 40 215 280 2 IN A WATER SYSTEM. THE USE OF NONCONDUCTIVE (DIELECTRIC) FITTINGS MAY REDUCE GALVANIC CORROSION. INLET (F)-(5) AN ELECTRICAL OUTLET SHOULD BE PROVIDED WITHIN FIVE FEET OF THE EQUIPMENT LOCATION. DRAIN LINE CONNECTION (G) (6) ALLOW A MINIMUM OF 24 INCHES ABOVE SOFTENER FOR FILLING. (7) DO NOT MAKE A DIRECT CONNECTION TO THE DRAIN. PROVIDE AN AIR L(10) NOTE 10 GAP OF AT LEAST FOUR TIMES THE DRAIN PIPE OR CONFORM TO LOCAL SANITATION CODES. A SIPHON BREAK SHOULD ALSO BE INSTALLED ON THE DRAIN LINE. SEE DETAIL BELOW FOR RECOMMENDED DRAIN CONFIGURATION. -OUTLET (F) (8) WHEN USING A WATER METER, THERE MUST BE A MINIMUM AMOUNT OF STRAIGHT PIPE BEFORE AND AFTER THE SENSOR. TOP VIEW REFER TO THE INSTALLATION INSTRUCTIONS FOR DETAILS. (9) BRINE TANK DIMENSIONS SHOWN ARE FOR THE BRINE TANK MOST COMMONLY SELECTED FOR USE WITH THIS SIZE SYSTEM BYPASS VALVE (NORMALLY CLOSED) (10) SYSTEM USES FRP TANKS WHICH MUST NOT BE SUBJECTED TO VACUUM. INSTALLATION OF VACUUM BREAKERS ON EACH TANK IS RECOMMENDED. THESE SYSTEMS PROVIDE A CONNECTION ON THE SIDE OF VALVE WHICH CAN BE USED TO MOUNT VACUUM BREAKER. ¬? ⇒ SOFT WATER HARD WATER ⇒ INLET: - OUTLET MANUAL OUTLET VALVE MANUAL INLET VALVE FLOW METER (OPTIONAL) SEE NOTE 8 ON PIPE LENGTHS REMOTE MOUNTED CONTROLS B(6) DRAIN SIPHON BREAK DETAIL M(10)SEE NOTE 7 **DUPLEX INSTALLATION** TO DRAIN HI-FLO ® 3e, 3900 AUTOMATIC SOFTENER DUPLEX DO NOT SCALE DRAWING TOLERANCES: ±1/8" UNLESS OTHERWISE NOTED By App Date TECHNICAL DATA SHEET Change ENGINEERED OSYSTEMS DETAILED BY: ROSEMONT, ILLINOIS MKM 1/28/09 PRINT AND BILL OF MATERIAL ARE NOT REF. NO. PART NO TO BE USED WITHOUT THE WRITTEN CONSENT OF CULLIGAN INTERNATIONAL CO.

lbs.

6207

8571

12006

15591

lbs.

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3861

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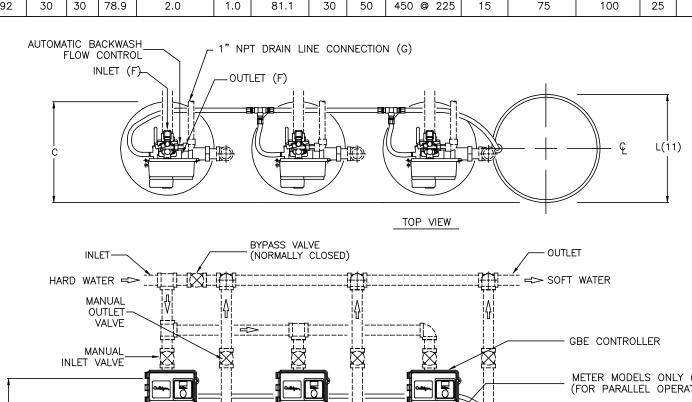
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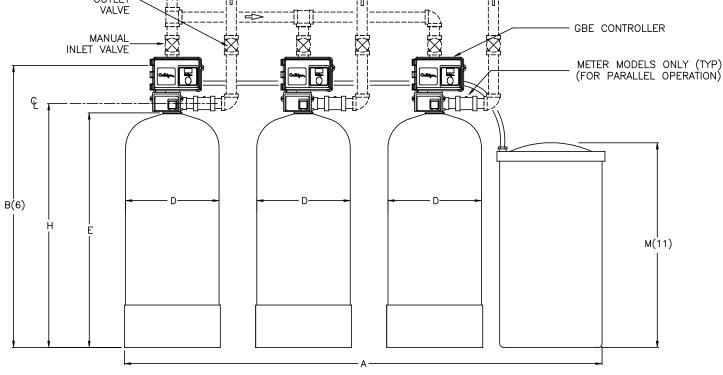
1 OF 1

HCE-DUPLEX

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					DIM	ENSIONS (INCH	ES)				UNIT DATA PER TANK							
	WIDTH	HEIGHT	DEPTH	TANK DIA.	TANK HEIGHT	INLET/OUTLET PIPE SIZES	DRAIN SIZE	FLOOR TO INLET	TANK DIA.	HEIGHT	MAX. CAPACITY KGR @ SALT	RESIN VOLUME	CONTINUOUS FLOW gpm @ 15	FLOW		MIN. DRAIN PIPE SIZE		TRIPLEX SHIP. WT.
MODEL	Α	B(6)	С	D	E	F	G	Н	L(11)	M(11)	DOSAGE	ft <sup>3</sup>	psi drop	psi drop	gpm	IN.	lbs.	lbs.
HCE-120-2	98	78	20	16	65.2	2.0	1.0	67.4	24	50	120 @ 60	4	45	60	8	1.0	2790	1295
HCE-150-2	104	79	21	18	66.3	2.0	1.0	68.5	24	50	150 @ 75	5	60	78	8	1.0	3390	1565
HCE-210-2	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
HCE-300-2	128	87	27	24	74.7	2.0	1.0	76.9	30	50	300 <b>@</b> 150	10	65	85	15	1.25	5385	2665
HCE-450-2	146	92	30	30	78.9	2.0	1.0	81.1	30	50	450 @ 225	15	75	100	25	1.5	7600	4120





## PARALLEL AND ALTERNATING TRIPLEX INSTALLATION

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

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By App Date

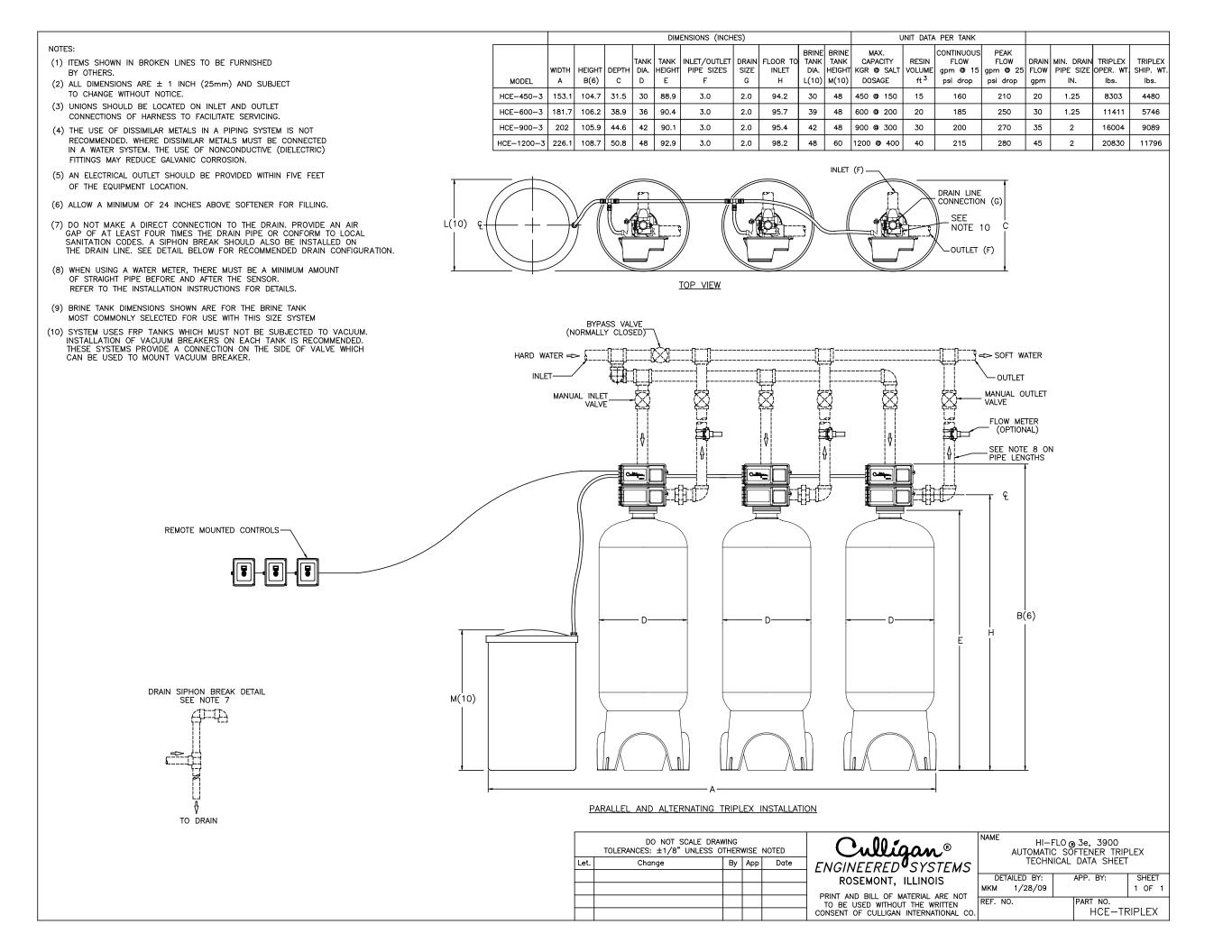
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ROSEMONT, ILLINOIS
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NAME HI-FLO® 3e
AUTOMATIC SOFTENER TRIPLEX
TECHNICAL DATA SHEET

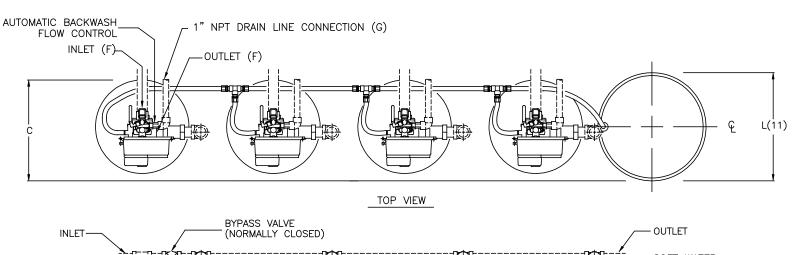
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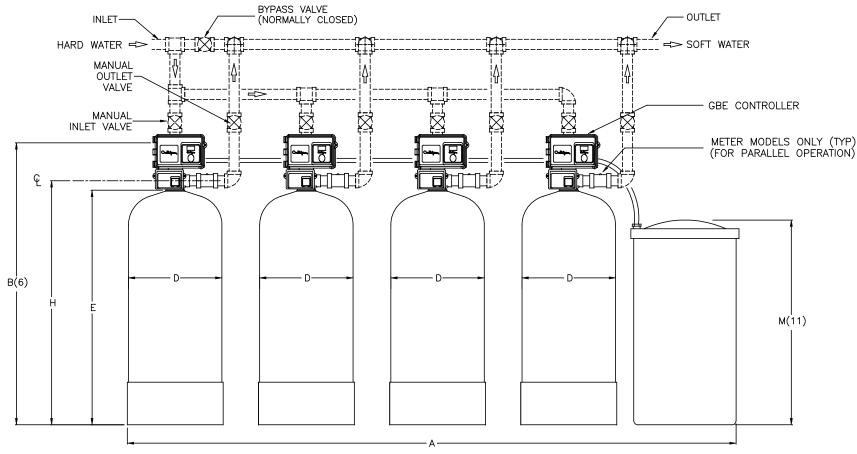
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- (11) BRINE TANK DIMENSIONS SHOWN ARE FOR THE BRINE TANK MOST COMMONLY SELECTED FOR USE WITH THIS SIZE SYSTEM.

					DIM	ENSIONS (INCH	ES)				UNIT DATA PER TANK							
	WIDTH	HEIGHT	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	DRAIN FLOW		-,	QUAD SHIP. WT.
MODEL	Α	B(6)	С	D	Ε	F	G	Н	L(11)	M(11)	DOSAGE	ft <sup>3</sup>	psi drop	psi drop	gpm	IN.	lbs.	lbs.
HCE-120-2	124	78	20	16	65.2	2.0	1.0	67.4	24	50	120 @ 60	4	45	60	8	1.0	3370	1710
HCE-150-2	132	79	21	18	66.3	2.0	1.0	68.5	24	50	150 <b>@</b> 75	5	60	78	8	1.0	4180	2070
HCE-210-2	144	80	22.5	21	67.1	2.0	1.0	69.3	24	50	210 @ 105	7	58	76	8	1.0	4910	2570
HCE-300-2	162	87	27	24	74.7	2.0	1.0	76.9	30	50	300 <b>©</b> 150	10	65	85	15	1.25	6690	3530
HCE-450-2	186	92	30	30	78.9	2.0	1.0	81.1	30	50	450 <b>@</b> 225	15	75	100	25	1.5	9610	5470





PARALLEL AND ALTERNATING QUAD INSTALLATION

DO NOT SCALE DRAWING
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By App Date

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HI-FLO® 3e
AUTOMATIC SOFTENER QUAD
TECHNICAL DATA SHEET

ROSEMONT, ILLINOIS

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