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.

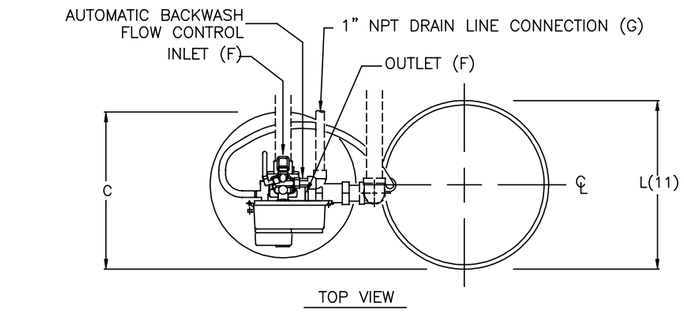
(8) WHEN USING A WATER METER, THERE MUST BE A MINIMUM AMOUNT OF STRAIGHT PIPE BEFORE AND AFTER THE SENSOR. REFER TO THE INSTALLATION INSTRUCTIONS FOR DETAILS.

(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.

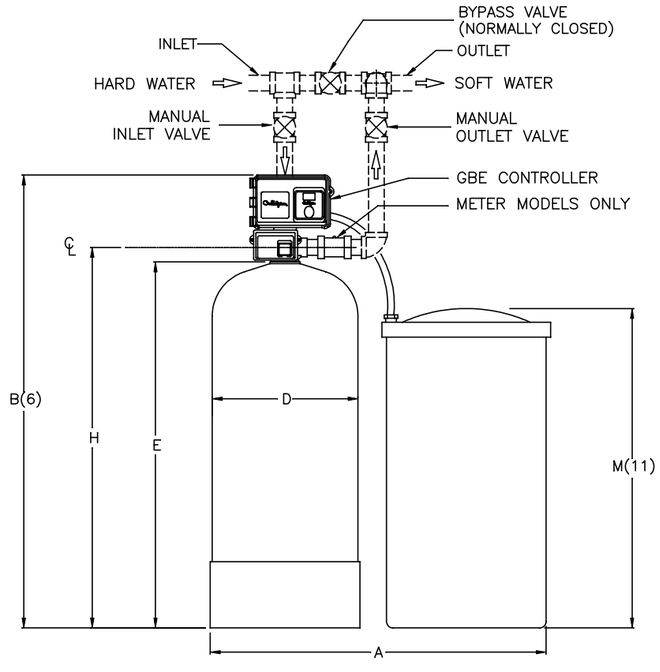
(10) FOR MAXIMUM PROTECTION OF THE CONTROLLER, IT IS RECOMMENDED THAT A DEDICATED 120 VOLT CIRCUIT IS PROVIDED.

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

	DIMENSIONS (INCHES)										UNIT DATA PER TANK							
MODEL	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(11)	BRINE TANK HEIGHT M(11)	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.
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 @ 225	15	75	100	25	1.5	3580	1420



TOP VIEW



SINGLE INSTALLATION

DO NOT SCALE DRAWING TOLERANCES: ±1/8" UNLESS OTHERWISE NOTED				
Let.	Change	By	App	Date

Culligan® ENGINEERED SYSTEMS
ROSEMONT, ILLINOIS

NAME
HI–FLO® 3e
AUTOMATIC SOFTENER SINGLE
TECHNICAL DATA SHEET

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

REF. NO.

PART NO.
S3e_1_MVP

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 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.

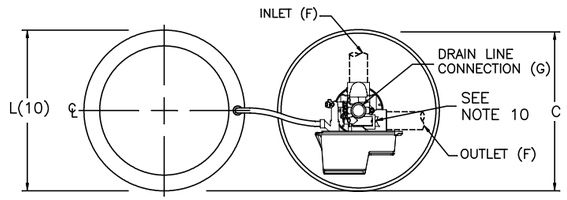
(7) DO NOT MAKE A DIRECT CONNECTION TO THE DRAIN. PROVIDE AN AIR GAP OF AT LEAST FOUR TIMES THE DRAIN PIPE OR CONFORM TO LOCAL SANITATION CODES. A SIPHON BREAK SHOULD ALSO BE INSTALLED ON THE DRAIN LINE. SEE DETAIL BELOW FOR RECOMMENDED DRAIN CONFIGURATION.

(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.

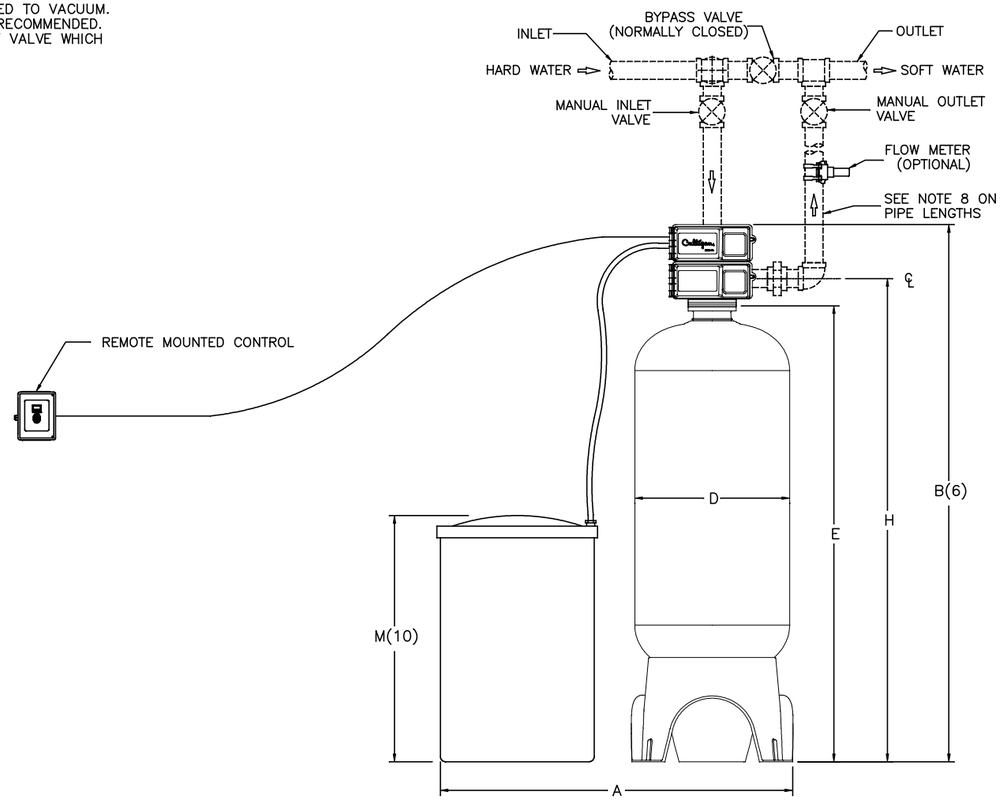
(9) BRINE TANK DIMENSIONS SHOWN ARE FOR THE BRINE TANK MOST COMMONLY SELECTED FOR USE WITH THIS SIZE SYSTEM

(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.

	DIMENSIONS (INCHES)										UNIT DATA PER TANK							
MODEL	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.	SINGLE OPER. WT. lbs.	SINGLE SHIP. WT. lbs.
HCE–450–3	68.7	104.7	31.5	30	88.9	3.0	2.0	94.2	30	48	450 @ 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

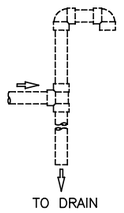


TOP VIEW



SINGLE INSTALLATION

DRAIN SIPHON BREAK DETAIL
SEE NOTE 7



DO NOT SCALE DRAWING TOLERANCES: ±1/8" UNLESS OTHERWISE NOTED				
Let.	Change	By	App	Date

Culligan® ENGINEERED SYSTEMS
ROSEMONT, ILLINOIS

NAME
HI–FLO® 3e, 3900
AUTOMATIC SOFTENER SINGLE
TECHNICAL DATA SHEET

DETAILED BY:	APP. BY:	SHEET
MKM 1/28/09		1 OF 1

REF. NO.	PART NO.
	HCE–SINGLE

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.

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(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.

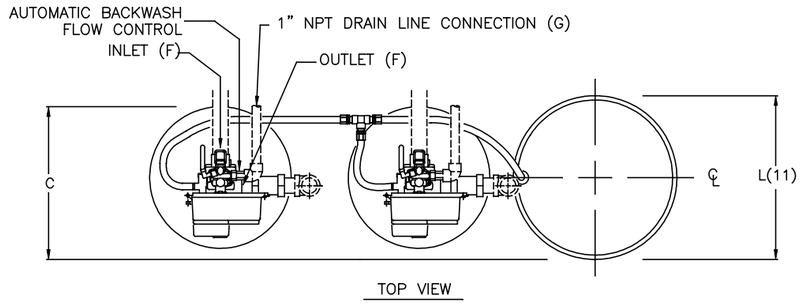
(8) WHEN USING A WATER METER, THERE MUST BE A MINIMUM AMOUNT OF STRAIGHT PIPE BEFORE AND AFTER THE SENSOR. REFER TO THE INSTALLATION INSTRUCTIONS FOR DETAILS.

(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.

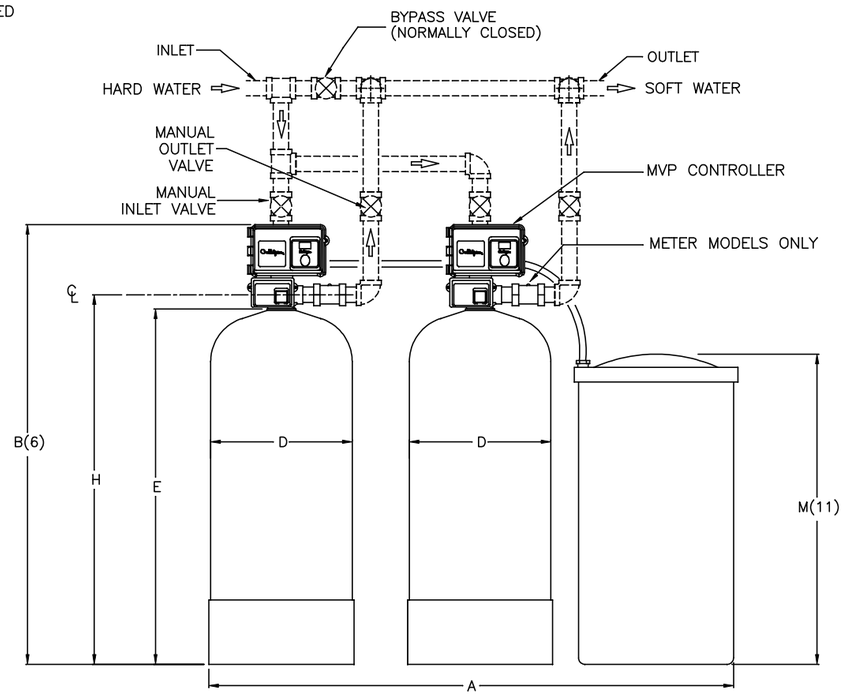
(10) FOR MAXIMUM PROTECTION OF THE CONTROLLER, IT IS RECOMMENDED THAT A DEDICATED 120 VOLT CIRCUIT IS PROVIDED.

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

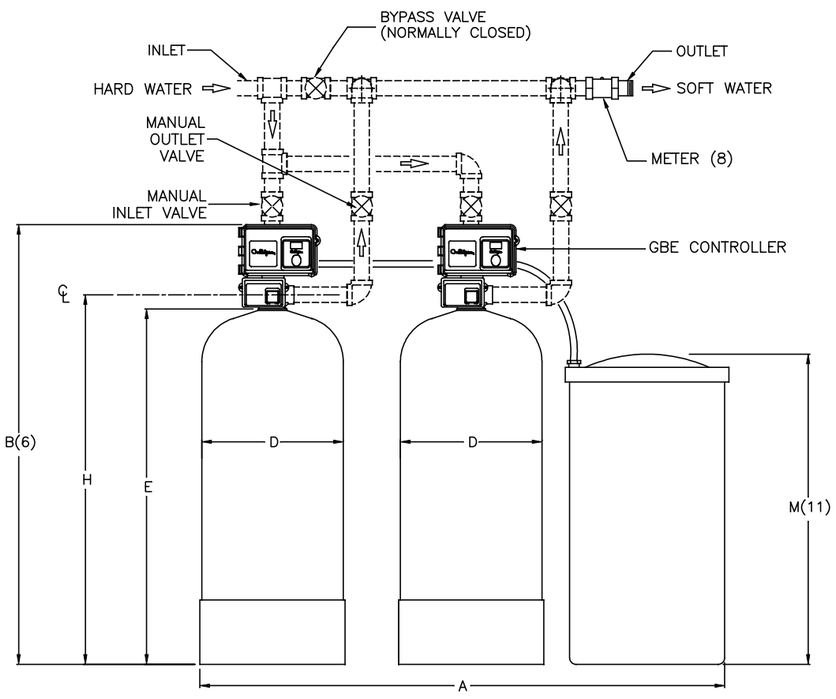
	DIMENSIONS (INCHES)										UNIT DATA PER TANK							
MODEL	WIDTH A	HEIGHT B(6)	DEPTH C	TANK DIA. D	TANK HEIGHT E	INLET/OUTLET PIPE SIZES F	DRAIN SIZE G	FLOOR TO INLET H	BRINE TANK DIA. L(11)	BRINE TANK HEIGHT M(11)	MAX. CAPACITY KGR @ SALT DOSAGE	RESIN VOLUME ft^3	CONTINUOUS FLOW gpm @ 15 psi drop	PEAK FLOW gpm @ 25 psi drop	DRAIN FLOW gpm	MIN. DRAIN PIPE SIZE IN.	DUPLEX OPER. WT. lbs.	DUPLEX SHIP. WT. lbs.
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 @ 225	15	75	100	25	1.5	5590	2770



TOP VIEW



PARALLEL DUPLEX INSTALLATION



ALTERNATING DUPLEX INSTALLATION

DO NOT SCALE DRAWING TOLERANCES: ±1/8" UNLESS OTHERWISE NOTED				
Let.	Change	By	App	Date

Culligan® ENGINEERED SYSTEMS
ROSEMONT, ILLINOIS

NAME
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

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 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.

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(6) ALLOW A MINIMUM OF 24 INCHES ABOVE SOFTENER FOR FILLING.

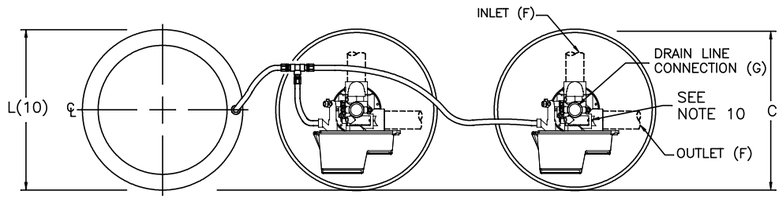
(7) DO NOT MAKE A DIRECT CONNECTION TO THE DRAIN. PROVIDE AN AIR GAP OF AT LEAST FOUR TIMES THE DRAIN PIPE OR CONFORM TO LOCAL SANITATION CODES. A SIPHON BREAK SHOULD ALSO BE INSTALLED ON THE DRAIN LINE. SEE DETAIL BELOW FOR RECOMMENDED DRAIN CONFIGURATION.

(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.

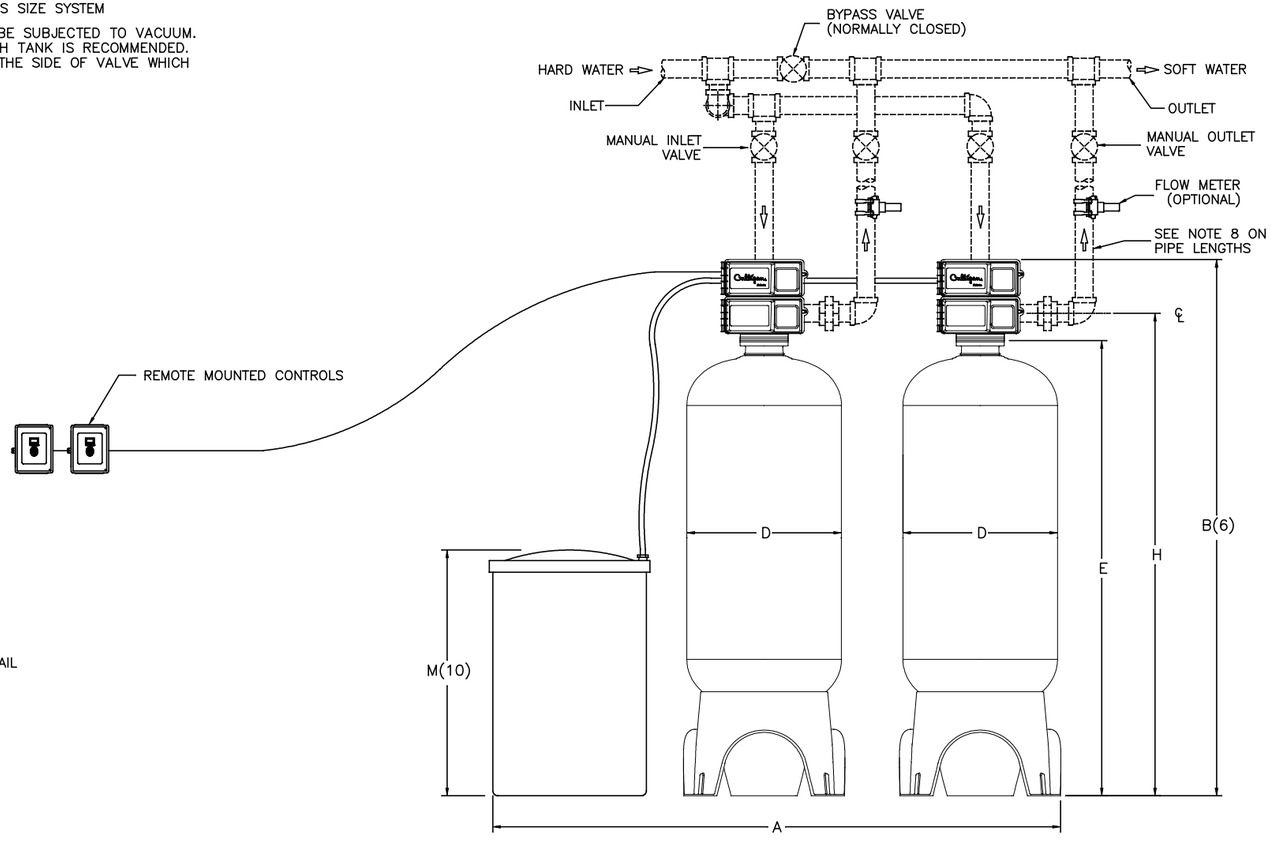
(9) BRINE TANK DIMENSIONS SHOWN ARE FOR THE BRINE TANK MOST COMMONLY SELECTED FOR USE WITH THIS SIZE SYSTEM

(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.

	DIMENSIONS (INCHES)										UNIT DATA PER TANK							
MODEL	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.
HCE–450–3	110.9	104.7	31.5	30	88.9	3.0	2.0	94.2	30	48	450 @ 150	15	160	210	20	1.25	6207	3009
HCE–600–3	133.5	106.2	38.9	36	90.4	3.0	2.0	95.7	39	48	600 @ 200	20	185	250	30	1.25	8571	3861
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	12006	6096
HCE–1200–3	165.9	108.7	50.8	48	92.9	3.0	2.0	98.2	48	60	1200 @ 400	40	215	280	45	2	15591	7924

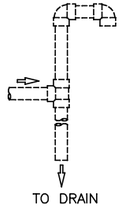


TOP VIEW



DUPLEX INSTALLATION

DRAIN SIPHON BREAK DETAIL
SEE NOTE 7



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

Let.	Change	By	App	Date

Culligan® ENGINEERED SYSTEMS
ROSEMONT, ILLINOIS

NAME
HI–FLO® 3e, 3900
AUTOMATIC SOFTENER DUPLEX
TECHNICAL DATA SHEET

DETAILED BY:	APP. BY:	SHEET
MKM 1/28/09		1 OF 1

REF. NO.	PART NO.
	HCE–DUPLEX

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.

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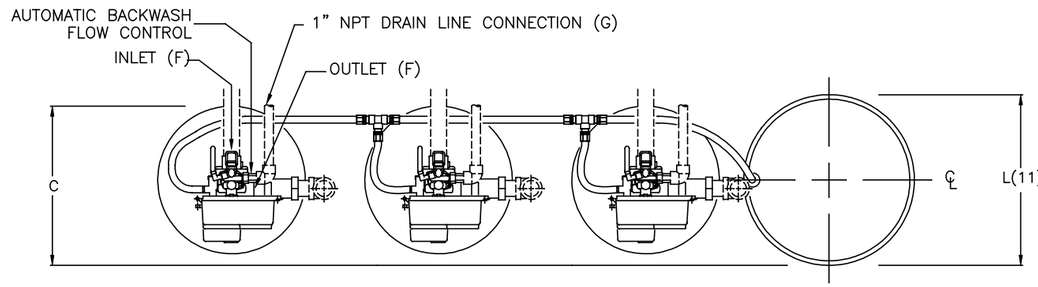
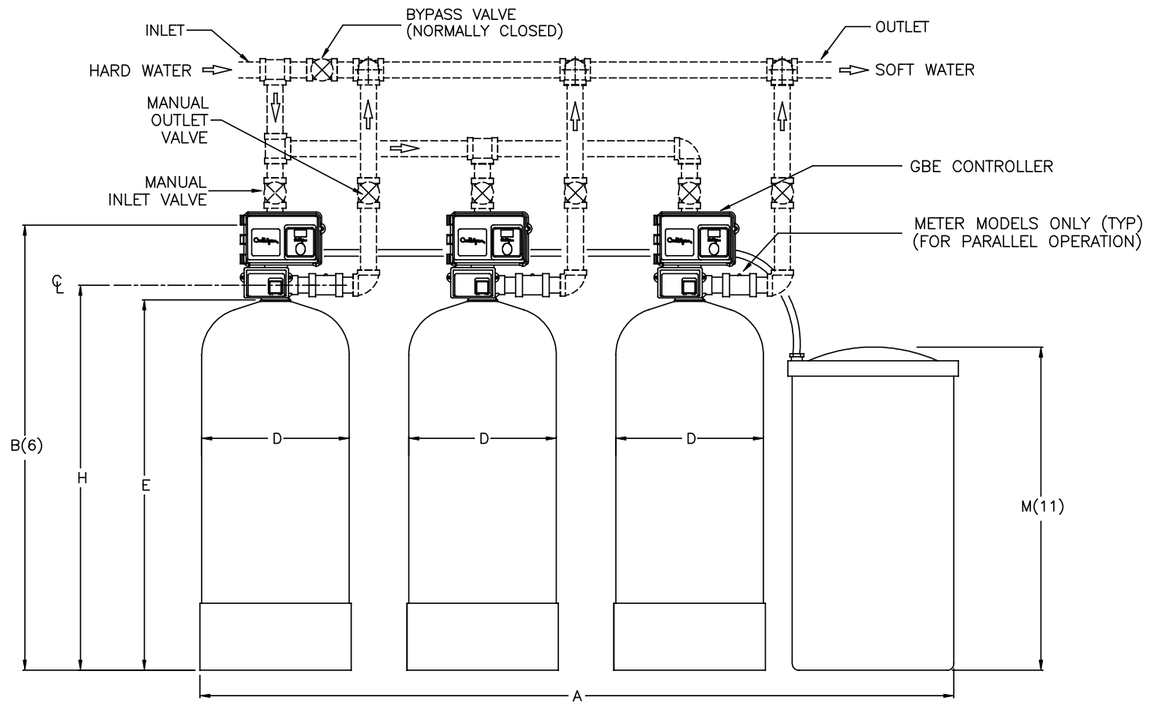
	DIMENSIONS (INCHES)										UNIT DATA PER TANK							
MODEL	WIDTH A	HEIGHT B(6)	DEPTH C	TANK DIA. D	TANK HEIGHT E	INLET/OUTLET PIPE SIZES F	DRAIN SIZE G	FLOOR TO INLET H	BRINE TANK DIA. L(11)	BRINE TANK HEIGHT M(11)	MAX. CAPACITY KGR @ SALT DOSAGE	RESIN VOLUME ft^3	CONTINUOUS FLOW gpm @ 15 psi drop	PEAK FLOW gpm @ 25 psi drop	DRAIN FLOW gpm	MIN. DRAIN PIPE SIZE IN.	TRIPLEX OPER. WT. lbs.	TRIPLEX SHIP. WT. 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 @ 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



TOP VIEW



PARALLEL AND ALTERNATING TRIPLEX INSTALLATION

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

Let.	Change	By	App	Date

Culligan® ENGINEERED SYSTEMS
ROSEMONT, ILLINOIS

NAME
HI–FLO® 3e
AUTOMATIC SOFTENER TRIPLEX
TECHNICAL DATA SHEET

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

REF. NO.

PART NO.
S3e_3_MVP

NOTES:

(1) ITEMS SHOWN IN BROKEN LINES TO BE FURNISHED BY OTHERS.

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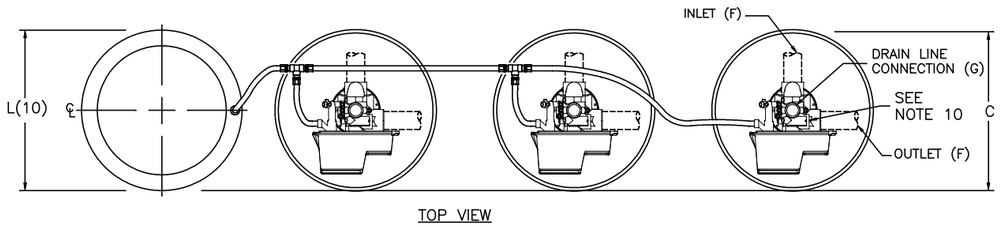
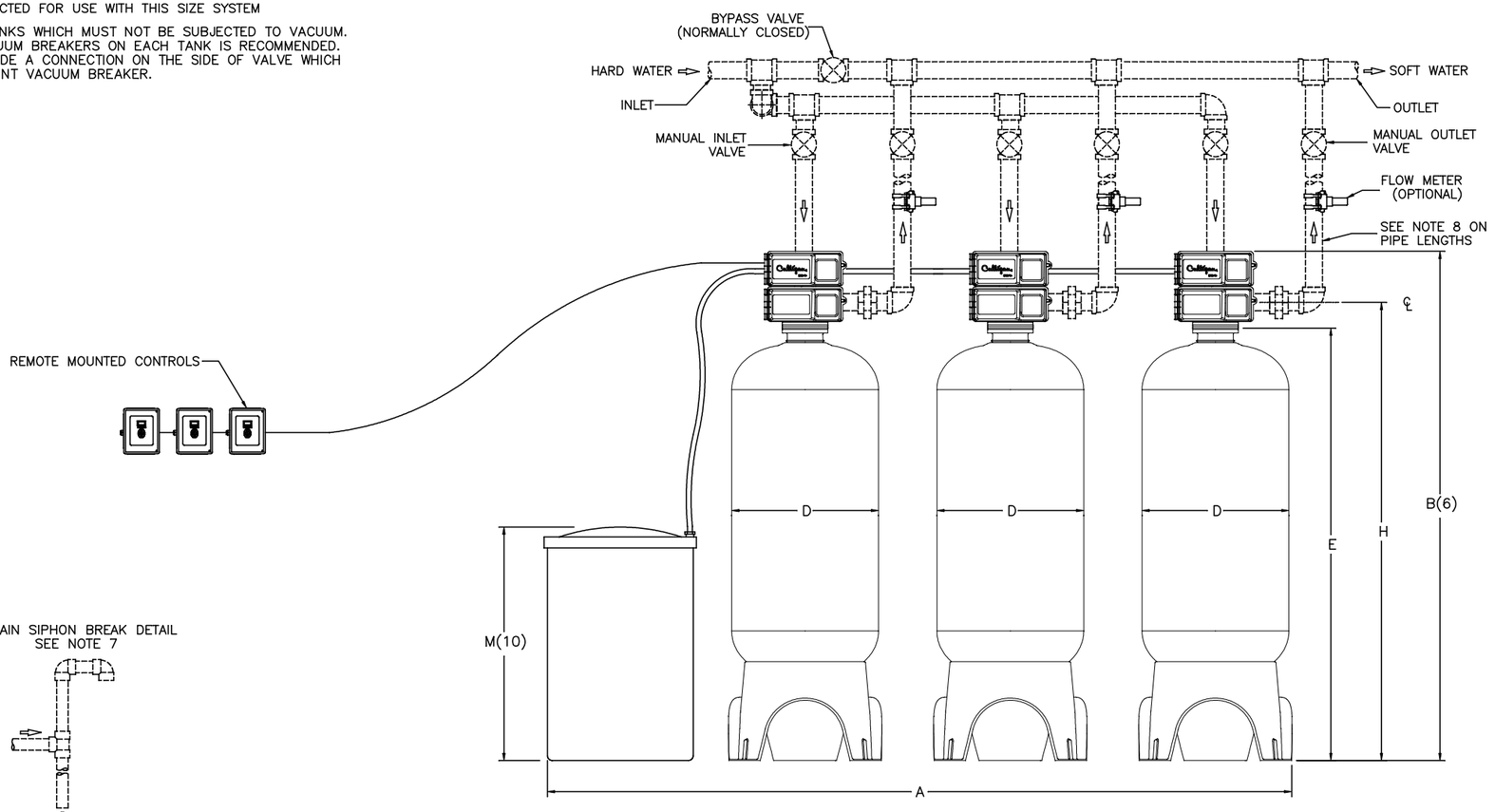
	DIMENSIONS (INCHES)										UNIT DATA PER TANK							
MODEL	WIDTH A	HEIGHT B(6)	DEPTH C	TANK DIA. D	TANK HEIGHT E	INLET/OUTLET PIPE SIZES F	DRAIN SIZE G	FLOOR TO INLET H	BRINE TANK DIA. L(10)	BRINE TANK HEIGHT M(10)	MAX. CAPACITY KGR @ SALT DOSAGE	RESIN VOLUME ft^3	CONTINUOUS FLOW gpm @ 15 psi drop	PEAK FLOW gpm @ 25 psi drop	DRAIN FLOW gpm	MIN. DRAIN PIPE SIZE IN.	TRIPLEX OPER. WT. lbs.	TRIPLEX SHIP. WT. lbs.
HCE–450–3	153.1	104.7	31.5	30	88.9	3.0	2.0	94.2	30	48	450 @ 150	15	160	210	20	1.25	8303	4480
HCE–600–3	181.7	106.2	38.9	36	90.4	3.0	2.0	95.7	39	48	600 @ 200	20	185	250	30	1.25	11411	5746
HCE–900–3	202	105.9	44.6	42	90.1	3.0	2.0	95.4	42	48	900 @ 300	30	200	270	35	2	16004	9089
HCE–1200–3	226.1	108.7	50.8	48	92.9	3.0	2.0	98.2	48	60	1200 @ 400	40	215	280	45	2	20830	11796

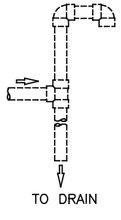


TOP VIEW



PARALLEL AND ALTERNATING TRIPLEX INSTALLATION

DRAIN SIPHON BREAK DETAIL
SEE NOTE 7



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

Let.	Change	By	App	Date

Culligan® ENGINEERED SYSTEMS
ROSEMONT, ILLINOIS

NAME
HI–FLO® 3e, 3900
AUTOMATIC SOFTENER TRIPLEX
TECHNICAL DATA SHEET

DETAILED BY:	APP. BY:	SHEET
MKM 1/28/09		1 OF 1

REF. NO.

PART NO.
HCE–TRIPLEX

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.

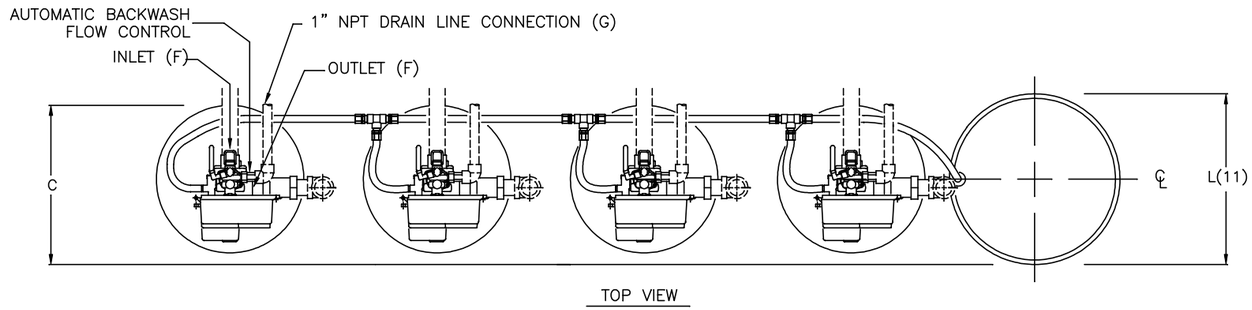
(8) WHEN USING A WATER METER, THERE MUST BE A MINIMUM AMOUNT OF STRAIGHT PIPE BEFORE AND AFTER THE SENSOR. REFER TO THE INSTALLATION INSTRUCTIONS FOR DETAILS.

(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.

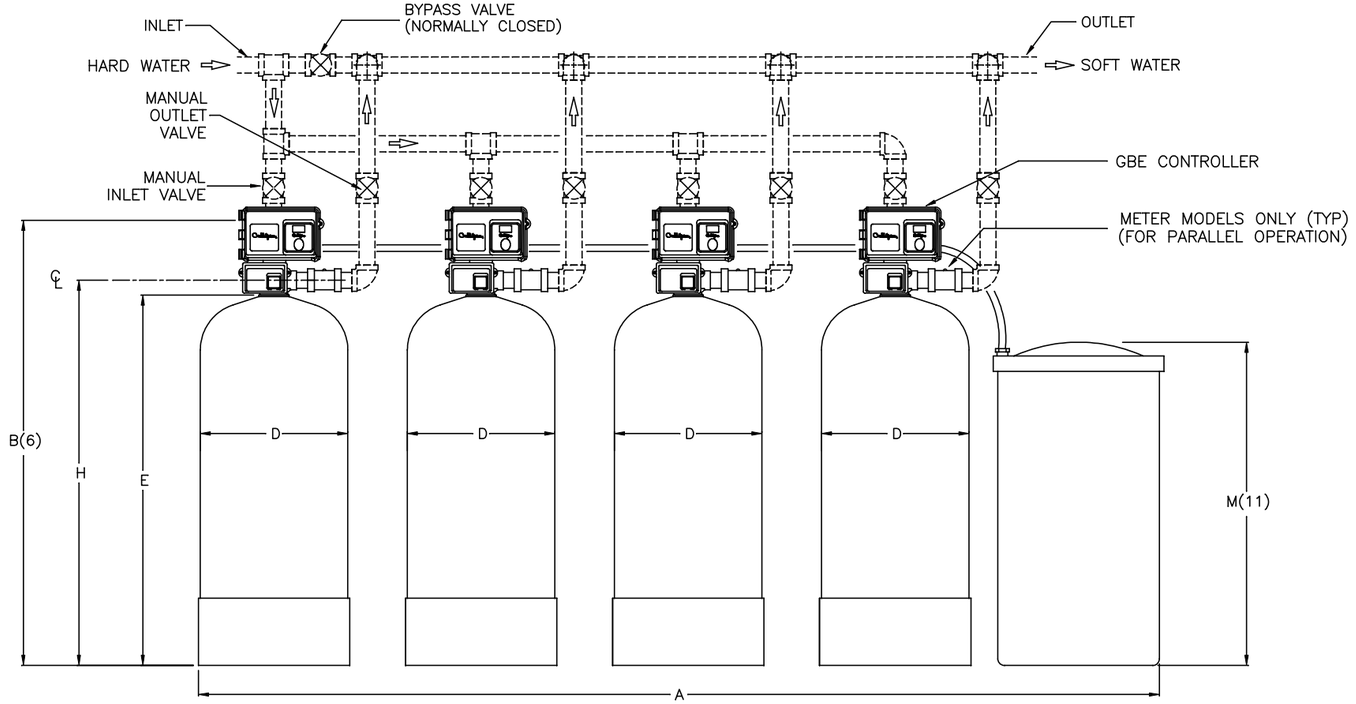
(10) FOR MAXIMUM PROTECTION OF THE CONTROLLER, IT IS RECOMMENDED THAT A DEDICATED 120 VOLT CIRCUIT IS PROVIDED.

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

	DIMENSIONS (INCHES)										UNIT DATA PER TANK							
MODEL	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(11)	BRINE TANK HEIGHT M(11)	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.	QUAD OPER. WT. lbs.	QUAD SHIP. WT. 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 @ 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 @ 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 @ 225	15	75	100	25	1.5	9610	5470



TOP VIEW



PARALLEL AND ALTERNATING QUAD INSTALLATION

DO NOT SCALE DRAWING TOLERANCES: ±1/8" UNLESS OTHERWISE NOTED				
Let.	Change	By	App	Date

Culligan® ENGINEERED SYSTEMS
ROSEMONT, ILLINOIS

NAME: HI–FLO® 3e AUTOMATIC SOFTENER QUAD TECHNICAL DATA SHEET

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

REF. NO.

PART NO. S3e_4_MVP

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 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.

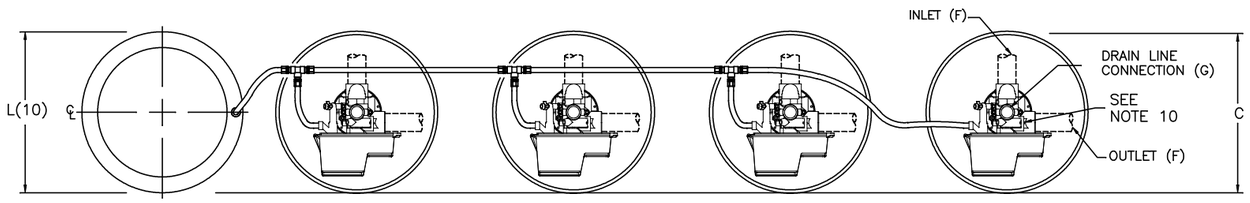
(7) DO NOT MAKE A DIRECT CONNECTION TO THE DRAIN. PROVIDE AN AIR GAP OF AT LEAST FOUR TIMES THE DRAIN PIPE OR CONFORM TO LOCAL SANITATION CODES. A SIPHON BREAK SHOULD ALSO BE INSTALLED ON THE DRAIN LINE. SEE DETAIL BELOW FOR RECOMMENDED DRAIN CONFIGURATION.

(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.

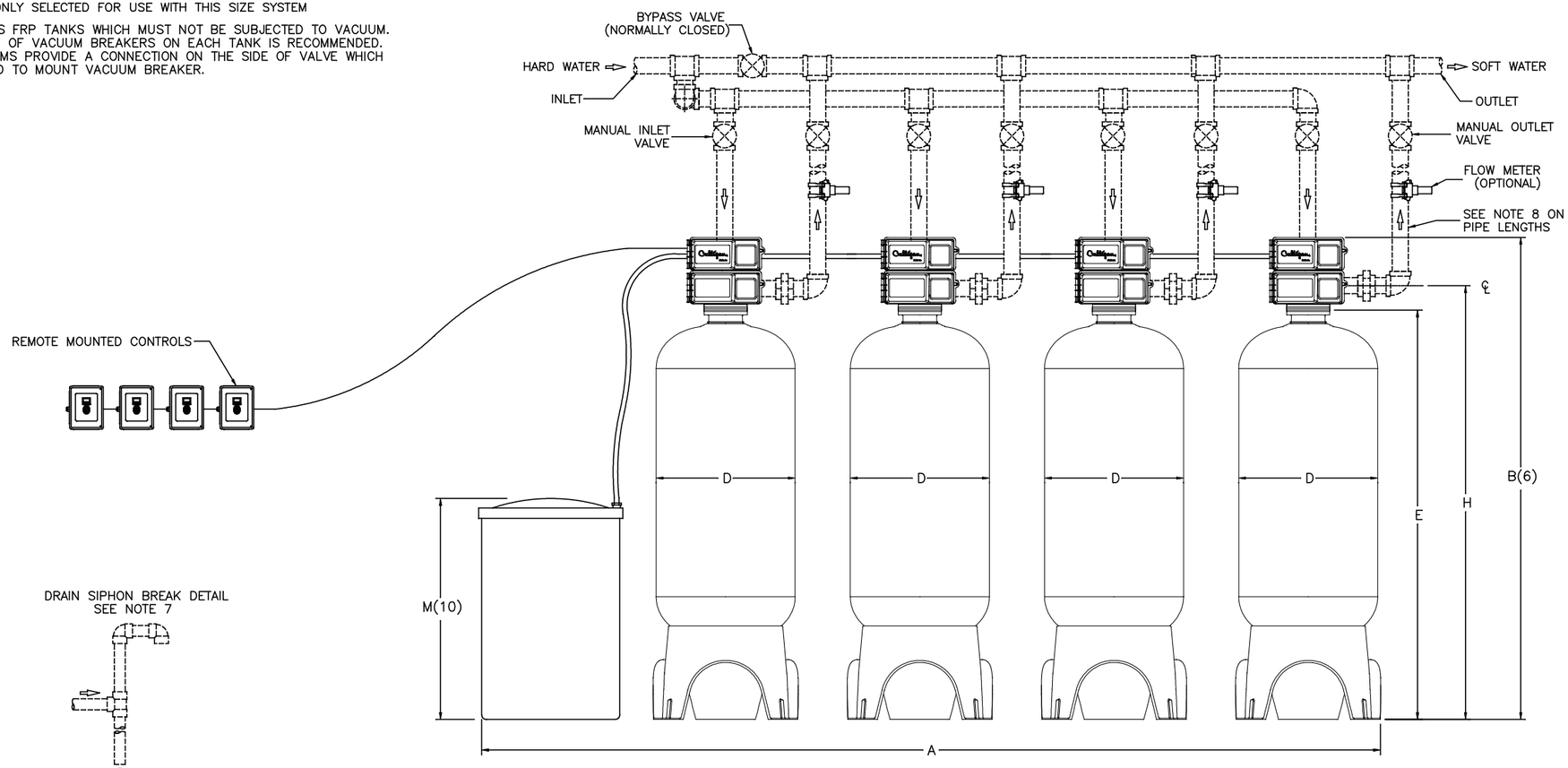
(9) BRINE TANK DIMENSIONS SHOWN ARE FOR THE BRINE TANK MOST COMMONLY SELECTED FOR USE WITH THIS SIZE SYSTEM

(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.

	DIMENSIONS (INCHES)										UNIT DATA PER TANK							
MODEL	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.	QUAD OPER. WT. lbs.	QUAD SHIP. WT. lbs.
HCE–450–3	195.3	104.7	31.5	30	88.9	3.0	2.0	94.2	30	48	450 @ 150	15	160	210	20	1.25	10398	5951
HCE–600–3	229.8	106.2	38.9	36	90.4	3.0	2.0	95.7	39	48	600 @ 200	20	185	250	30	1.25	14251	7631
HCE–900–3	256.2	105.9	44.6	42	90.1	3.0	2.0	95.4	42	48	900 @ 300	30	200	270	35	2	20002	12082
HCE–1200–3	286.4	108.7	50.8	48	92.9	3.0	2.0	98.2	48	60	1200 @ 400	40	215	280	45	2	26069	15668

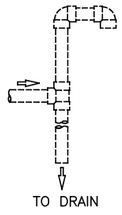


TOP VIEW



PARALLEL AND ALTERNATING QUAD INSTALLATION

DRAIN SIPHON BREAK DETAIL
SEE NOTE 7



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TOLERANCES: ±1/8" UNLESS OTHERWISE NOTED

Let.	Change	By	App	Date

Culligan® ENGINEERED SYSTEMS
ROSEMONT, ILLINOIS

NAME
HI–FLO® 3e, 3900
AUTOMATIC SOFTENER QUAD
TECHNICAL DATA SHEET

DETAILED BY:	APP. BY:	SHEET
MKM 1/28/09		1 OF 1

REF. NO.	PART NO.
	HCE–QUAD