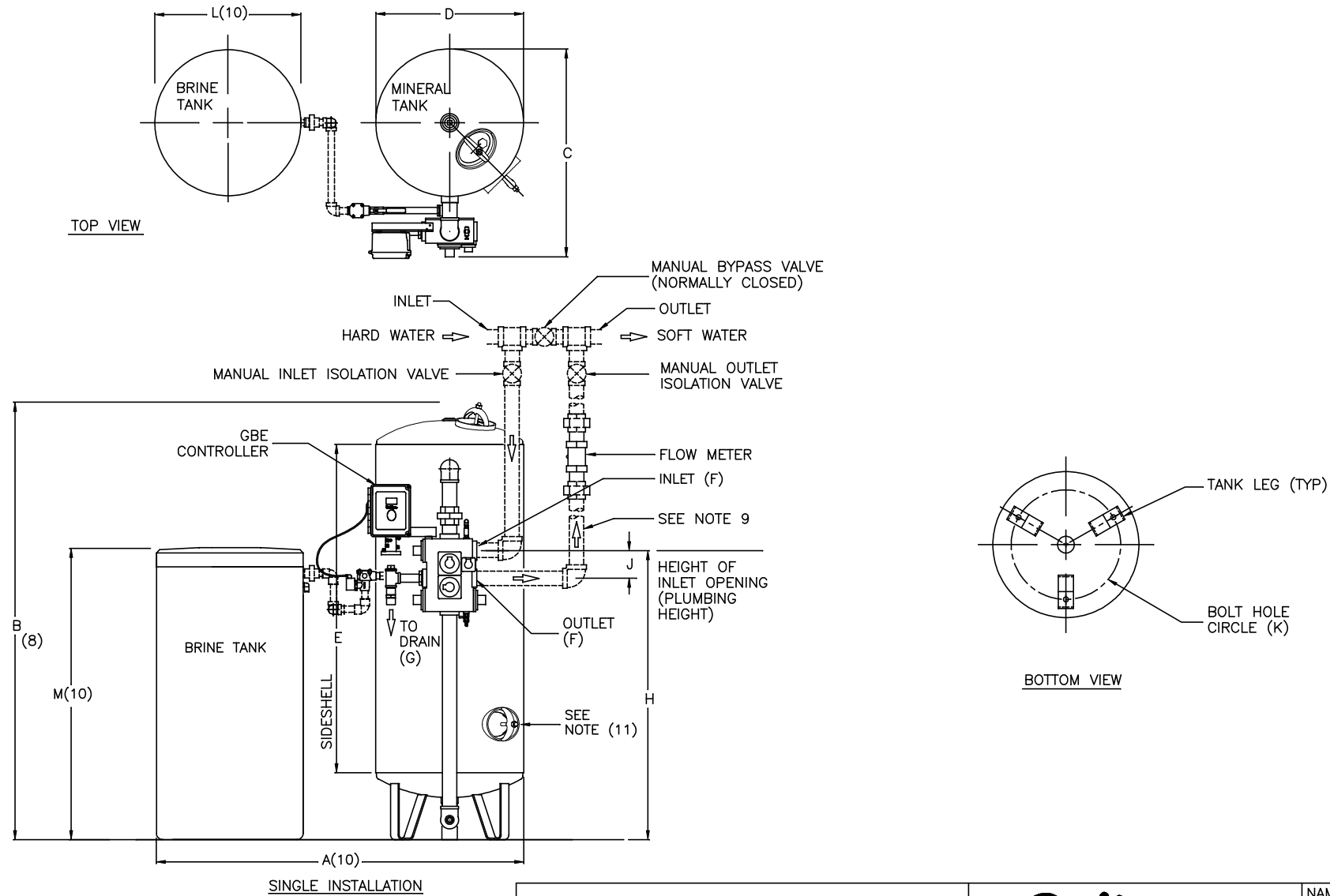


NOTES:

- (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) FOR MAXIMUM PROTECTION OF THE CONTROLLER, IT IS RECOMMENDED THAT A DEDICATED 120 VOLT CIRCUIT IS PROVIDED.
- (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) OVERALL TANK HEIGHT IS BASED ON STANDARD NON-CODE TANK CONSTRUCTION. SEE ASME TANK HEIGHT ADDER FOR ASME TANKS.
- (9) 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.
- (10) BRINE TANK DIMENSIONS SHOWN ARE FOR THE BRINE TANK MOST COMMONLY SELECTED FOR USE WITH THIS SIZE SYSTEM.
- (11) ACCESS OPENINGS SHOWN ON TANK ARE FOR REFERENCE ONLY. QUANTITY, TYPE AND PLACEMENT ARE DEPENDENT ON TANK SIZE.

MODEL	DIMENSIONS (INCHES)												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.	ASME TANK HEIGHT ADDER (8) IN.	SIMPLEX OPER. WT. lbs.	SIMPLEX SHIP. WT. lbs.
	WIDTH A(10)	HEIGHT B(8)	DEPTH C	TANK DIA. D	SIDE-SHELL E	INLET/OUTLET PIPE SIZES F	DRAIN SIZE G	FLOOR TO INLET H	INLET TO OUTLET J	BOLT HOLE CIRCLE DIA. K	BRINE TANK DIA. L(10)	BRINE TANK HEIGHT M(10)									
CSM 150-2	56	73	31	20	54	2.0	0.75	47.62	4.62	14"	24	48	150 @ 50	5	67	94	10	1.0	3	2500	830
CSM 210-2	60	74	35	24	54	2.0	1.0	47.62	4.62	18"	24	48	210 @ 70	7	76	102	13.5	1.0	4	2900	1115
CSM 300-2	72	85	42	30	60	2.0	1.0	47.62	4.62	24"	30	48	300 @ 100	10	84	112	20	1.25	4.25	3900	1580
CSM 300-3	72	85	44	30	60	3.0	1.0	49.62	6.62	24"	30	48	300 @ 100	10	152	210	20	1.25	4.25	4000	1630
CSM 450-2	72	85	42	30	60	2.0	1.0	47.62	4.62	24"	30	48	450 @ 150	15	79	106	20	1.25	4.25	4700	1940
CSM 450-3	72	85	44	30	60	3.0	1.0	49.62	6.62	24"	30	48	450 @ 150	15	135	192	20	1.25	4.25	4800	1990
CSM 600-2	84	88	48	36	60	2.0	1.0	47.62	4.62	30"	36	48	600 @ 200	20	94	125	30	1.25	7	7000	2585
CSM 600-3	84	88	50	36	60	3.0	1.0	49.62	6.62	30"	36	48	600 @ 200	20	183	252	30	1.25	7	7100	2635
CSM 750-2	96	90	54	42	60	2.0	2.5	47.62	4.62	36"	42	48	750 @ 250	25	97	129	45	2	3	8400	3390
CSM 750-3	96	90	56	42	60	3.0	2.5	49.62	6.62	36"	42	48	750 @ 250	25	201	267	45	2	3	8500	3440
CSM 900-2	96	90	54	42	60	2.0	2.5	47.62	4.62	36"	42	48	900 @ 300	30	96	127	45	2	3	9000	3650
CSM 900-3	96	90	56	42	60	3.0	2.5	49.62	6.62	36"	42	48	900 @ 300	30	193	259	45	2	3	9000	3700



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Culligan®
ENGINEERED SYSTEMS
 ROSEMONT, ILLINOIS

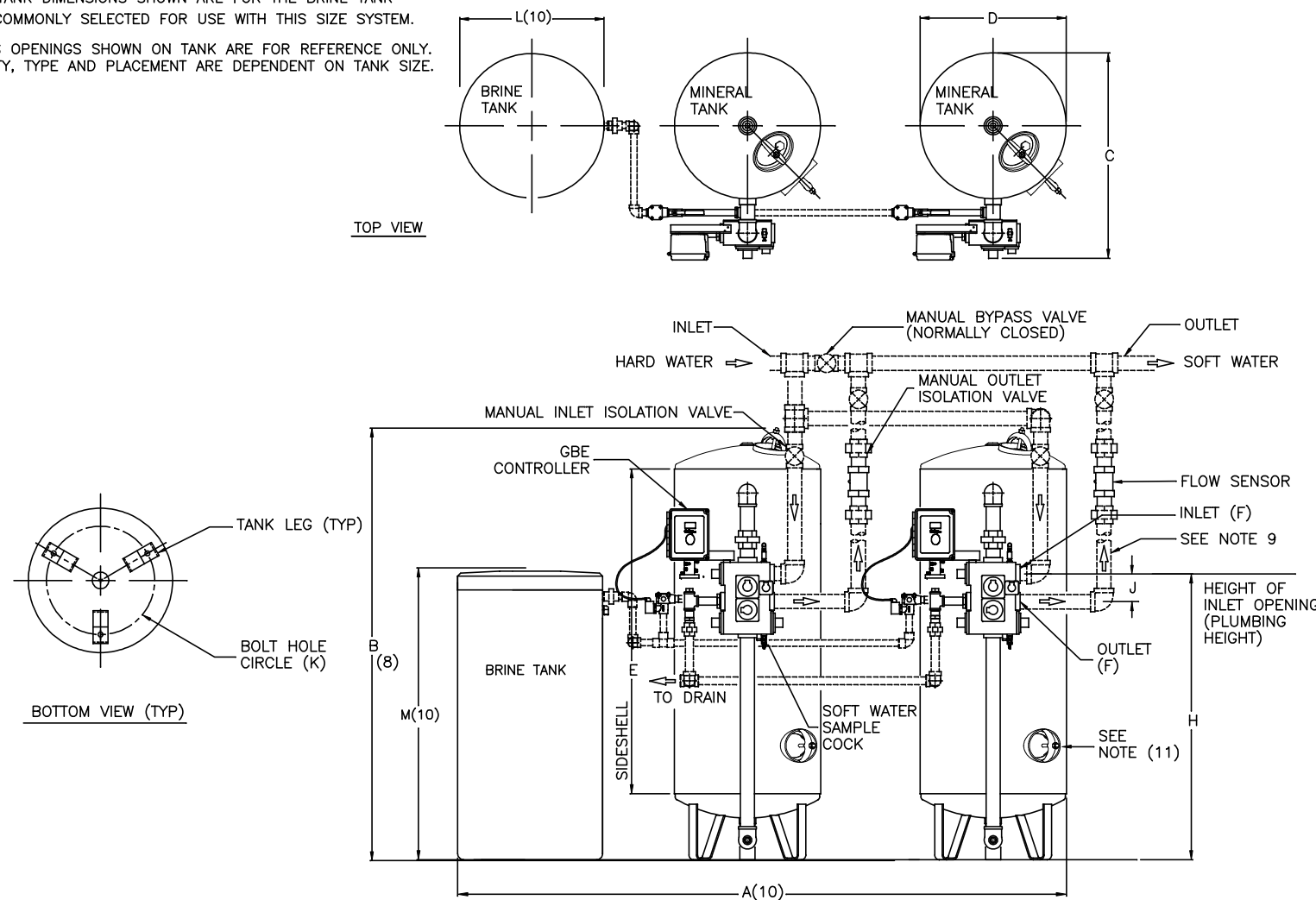
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NAME CSM SINGLE WATER SOFTENER SYSTEM TECHNICAL DATA SHEET		
DETAILED BY: KMR 4/26/05	APP. BY: KSR 01/11/10	SHEET 1 OF 1
REF. NO.	PART NO. CSM_1	

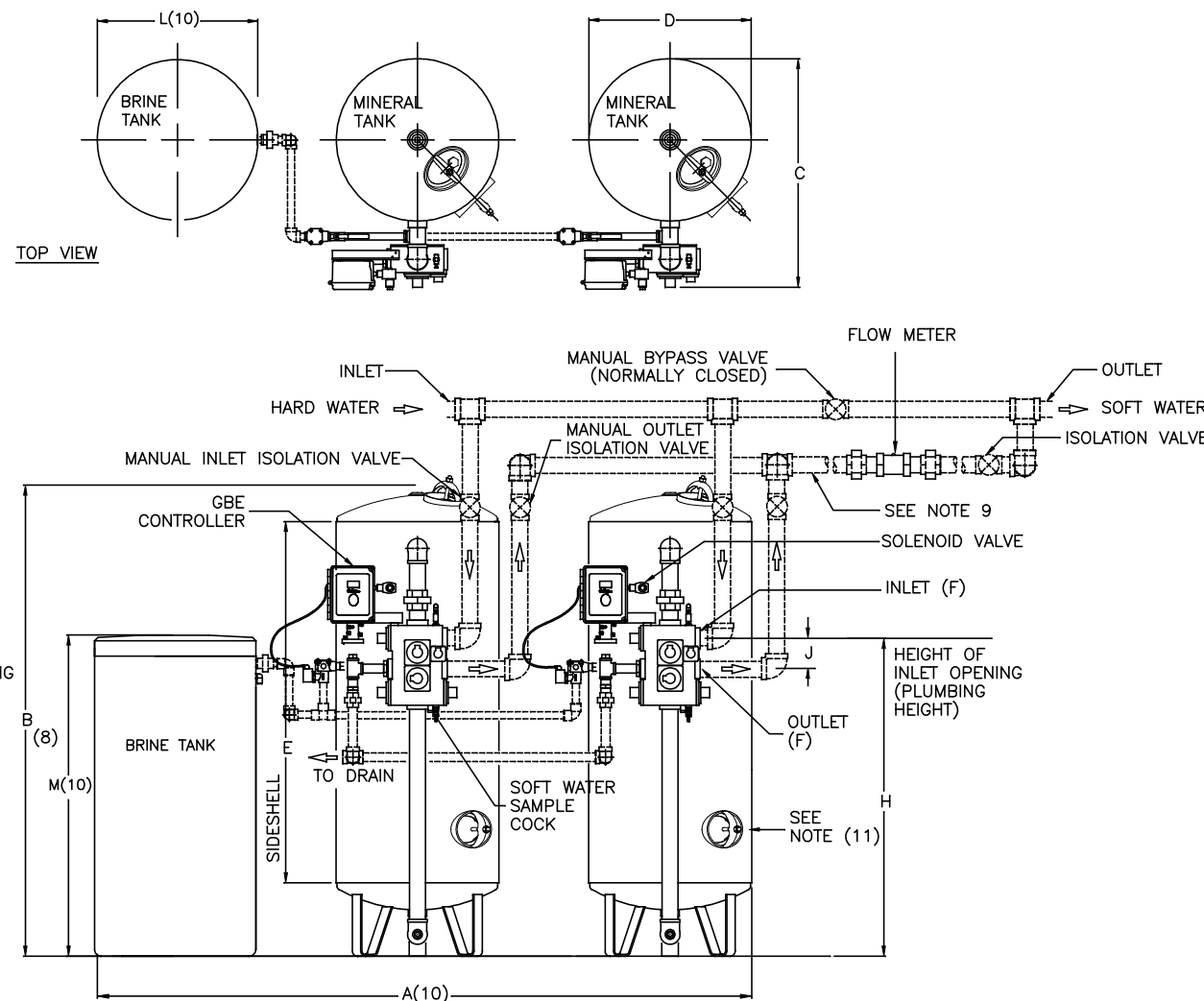
NOTES:

- (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.
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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) OVERALL TANK HEIGHT IS BASED ON STANDARD NON-CODE TANK CONSTRUCTION. SEE ASME TANK HEIGHT ADDER FOR ASME TANKS.
- (9) 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.
- (10) BRINE TANK DIMENSIONS SHOWN ARE FOR THE BRINE TANK MOST COMMONLY SELECTED FOR USE WITH THIS SIZE SYSTEM.
- (11) ACCESS OPENINGS SHOWN ON TANK ARE FOR REFERENCE ONLY. QUANTITY, TYPE AND PLACEMENT ARE DEPENDENT ON TANK SIZE.

MODEL	DIMENSIONS (INCHES)										UNIT DATA (PER TANK)					ASME TANK HEIGHT ADDER (8) IN.	DUPLEX OPER. WT. lbs.	DUPLEX SHIP. WT. lbs.			
	WIDTH A(10)	HEIGHT B(8)	DEPTH C	TANK DIA. D	SIDE-SHELL E	INLET/OUTLET PIPE SIZES F	DRAIN SIZE G	FLOOR TO INLET H	INLET TO OUTLET J	BOLT HOLE CIRCLE DIA. K	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.
CSM 150-2	88	73	31	20	54	2.0	0.75	47.62	4.62	14"	24	48	150 @ 50	5	67	94	10	1.0	3	3700	1660
CSM 210-2	96	74	35	24	54	2.0	1.0	47.62	4.62	18"	24	48	210 @ 70	7	76	102	13.5	1.0	4	4600	2230
CSM 300-2	114	85	42	30	60	2.0	1.0	47.62	4.62	24"	30	48	300 @ 100	10	84	112	20	1.25	4.25	6600	3160
CSM 300-3	114	85	44	30	60	3.0	1.0	49.62	6.62	24"	30	48	300 @ 100	10	152	210	20	1.25	4.25	6700	3260
CSM 450-2	114	85	42	30	60	2.0	1.0	47.62	4.62	24"	30	48	450 @ 150	15	79	106	20	1.25	4.25	7600	3880
CSM 450-3	114	85	44	30	60	3.0	1.0	49.62	6.62	24"	30	48	450 @ 150	15	135	192	20	1.25	4.25	7700	3980
CSM 600-2	132	88	48	36	60	2.0	1.0	47.62	4.62	30"	36	48	600 @ 200	20	94	125	30	1.25	7	11000	5170
CSM 600-3	132	88	50	36	60	3.0	1.0	49.62	6.62	30"	36	48	600 @ 200	20	183	252	30	1.25	7	11100	5270
CSM 750-2	150	90	54	42	60	2.0	2.5	47.62	4.62	36"	42	48	750 @ 250	25	97	129	45	2	3	13800	6780
CSM 750-3	150	90	56	42	60	3.0	2.5	49.62	6.62	36"	42	48	750 @ 250	25	201	267	45	2	3	13900	6880
CSM 900-2	150	90	54	42	60	2.0	2.5	47.62	4.62	36"	42	48	900 @ 300	30	96	127	45	2	3	14400	7300
CSM 900-3	150	90	56	42	60	3.0	2.5	49.62	6.62	36"	42	48	900 @ 300	30	193	259	45	2	3	14500	7400



TWIN PARALLEL INSTALLATION



TWIN ALTERNATING INSTALLATION

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ENGINEERED SYSTEMS
 ROSEMONT, ILLINOIS

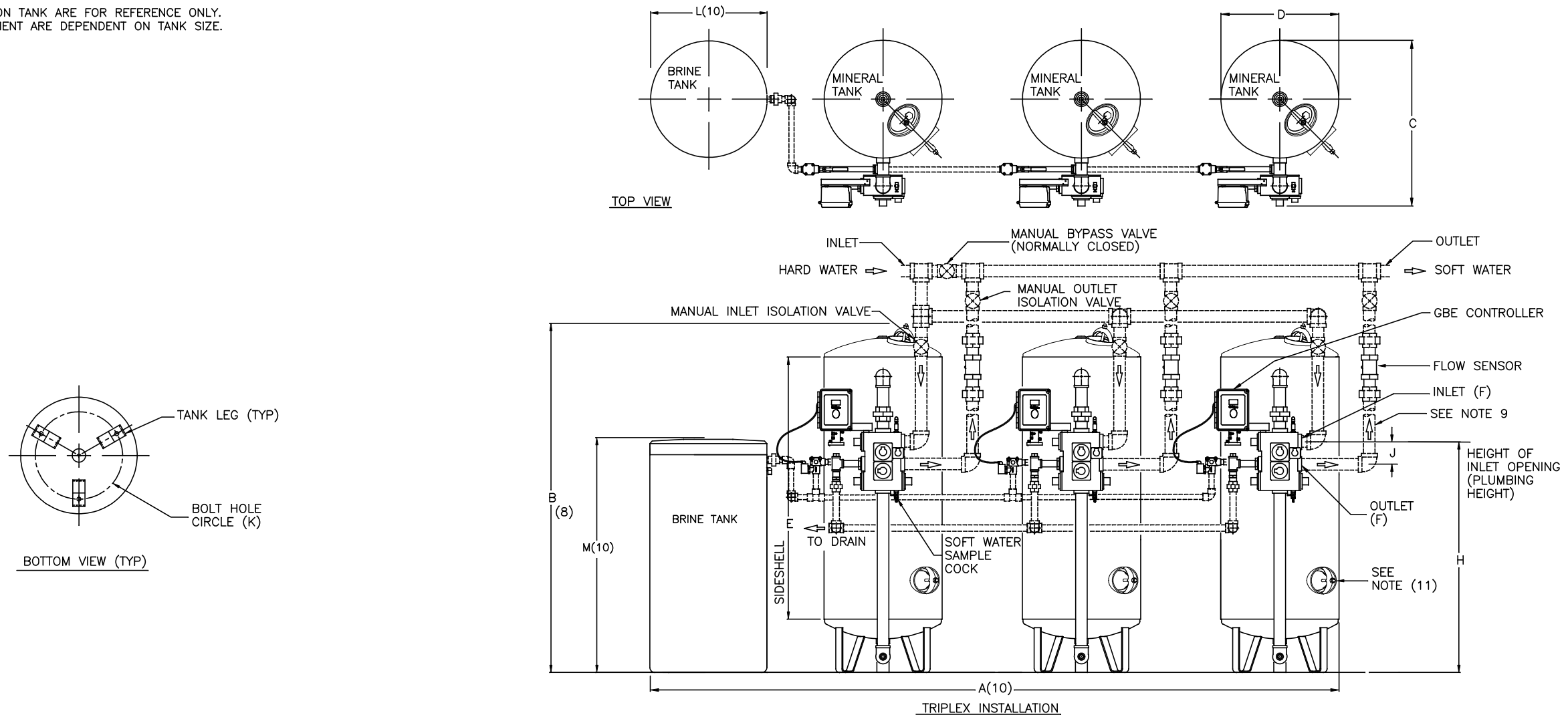
PRINT AND BILL OF MATERIAL ARE NOT TO BE USED WITHOUT THE WRITTEN CONSENT OF CULLIGAN INTERNATIONAL CO.

NAME CSM DUPLEX WATER SOFTENER SYSTEM TECHNICAL DATA SHEET		
DETAILED BY: KMR 4/26/05	APP. BY: KSR 01/11/10	SHEET 1 OF 1
REF. NO.	PART NO. CSM_2	

NOTES:

- (1) ITEMS SHOWN IN BROKEN LINES TO BE FURNISHED BY OTHERS.
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- (5) FOR MAXIMUM PROTECTION OF THE CONTROLLER, IT IS RECOMMENDED THAT A DEDICATED 120 VOLT CIRCUIT IS PROVIDED.
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- (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) OVERALL TANK HEIGHT IS BASED ON STANDARD NON-CODE TANK CONSTRUCTION. SEE ASME TANK HEIGHT ADDER FOR ASME TANKS.
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MODEL	DIMENSIONS (INCHES)											UNIT DATA (PER TANK)									
	WIDTH A(10)	HEIGHT B(8)	DEPTH C	TANK DIA. D	SIDE-SHELL E	INLET/OUTLET PIPE SIZES F	DRAIN SIZE G	FLOOR TO INLET H	INLET TO OUTLET J	BOLT HOLE CIRCLE DIA. K	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.	ASME TANK HEIGHT ADDER (8) IN.	TRIPLEX OPER. WT. lbs.	TRIPLEX SHIP. WT. lbs.
CSM 150-2	120	73	31	20	54	2.0	0.75	47.62	4.62	14"	24	48	150 @ 50	5	67	94	10	1.0	3	4900	2490
CSM 210-2	132	74	35	24	54	2.0	1.0	47.62	4.62	18"	24	48	210 @ 70	7	76	102	13.5	1.0	4	6300	3345
CSM 300-2	156	85	42	30	60	2.0	1.0	47.62	4.62	24"	30	48	300 @ 100	10	84	112	20	1.25	4.25	9300	4740
CSM 300-3	156	85	44	30	60	3.0	1.0	49.62	6.62	24"	30	48	300 @ 100	10	152	210	20	1.25	4.25	9400	4890
CSM 450-2	156	85	42	30	60	2.0	1.0	47.62	4.62	24"	30	48	450 @ 150	15	79	106	20	1.25	4.25	10500	5820
CSM 450-3	156	85	44	30	60	3.0	1.0	49.62	6.62	24"	30	48	450 @ 150	15	135	192	20	1.25	4.25	10600	5970
CSM 600-2	180	88	48	36	60	2.0	1.0	47.62	4.62	30"	36	48	600 @ 200	20	94	125	30	1.25	7	15000	7755
CSM 600-3	180	88	50	36	60	3.0	1.0	49.62	6.62	30"	36	48	600 @ 200	20	183	252	30	1.25	7	15100	7905
CSM 750-2	204	90	54	42	60	2.0	2.5	47.62	4.62	36"	42	48	750 @ 250	25	97	129	45	2	3	19200	10170
CSM 750-3	204	90	56	42	60	3.0	2.5	49.62	6.62	36"	42	48	750 @ 250	25	201	267	45	2	3	19300	10320
CSM 900-2	204	90	54	42	60	2.0	2.5	47.62	4.62	36"	42	48	900 @ 300	30	96	127	45	2	3	19800	10950
CSM 900-3	204	90	56	42	60	3.0	2.5	49.62	6.62	36"	42	48	900 @ 300	30	193	259	45	2	3	20000	11100



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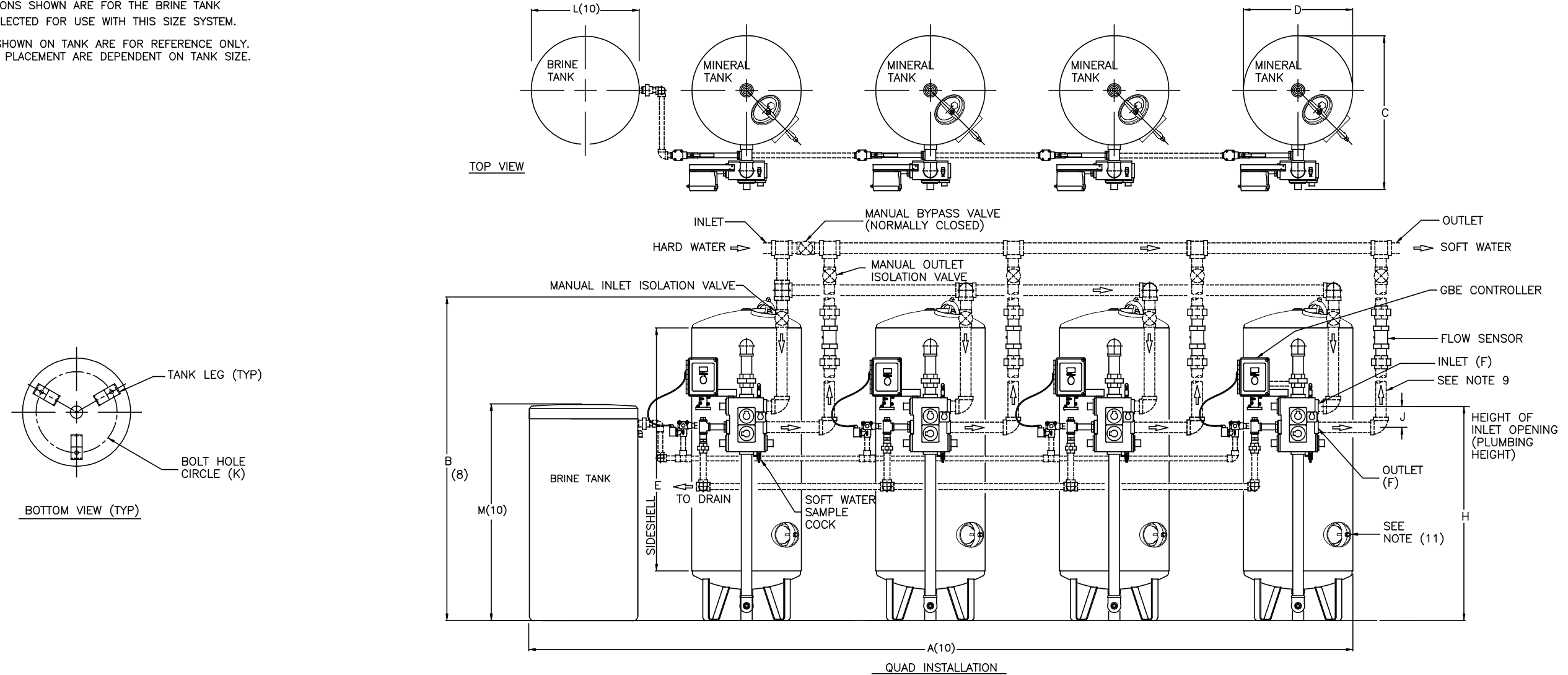
Culligan®
ENGINEERED SYSTEMS
ROSEMONT, ILLINOIS

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

NAME CSM TRIPLEX WATER SOFTENER SYSTEM TECHNICAL DATA SHEET		
DETAILED BY: KMR 4/26/05	APP. BY: KSR 01/11/10	SHEET 1 OF 1
REF. NO.	PART NO. CSM_3	

- NOTES:
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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) OVERALL TANK HEIGHT IS BASED ON STANDARD NON-CODE TANK CONSTRUCTION. SEE ASME TANK HEIGHT ADDER FOR ASME TANKS.
 - (9) 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.
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 - (11) ACCESS OPENINGS SHOWN ON TANK ARE FOR REFERENCE ONLY. QUANTITY, TYPE AND PLACEMENT ARE DEPENDENT ON TANK SIZE.

MODEL	DIMENSIONS (INCHES)											UNIT DATA (PER TANK)						QUAD OPER. WT. lbs.	QUAD SHIP. WT. lbs.		
	WIDTH A(10)	HEIGHT B(8)	DEPTH C	TANK DIA. D	SIDE-SHELL E	INLET/OUTLET PIPE SIZES F	DRAIN SIZE G	FLOOR TO INLET H	INLET TO OUTLET J	BOLT HOLE CIRC. DIA. K	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.	ASME TANK HEIGHT ADDER (8) IN.
CSM 150-2	152	73	31	20	54	2.0	0.75	47.62	4.62	14"	24	48	150 @ 50	5	67	94	10	1.0	3	6100	3320
CSM 210-2	168	74	35	24	54	2.0	1.0	47.62	4.62	18"	24	48	210 @ 70	7	76	102	13.5	1.0	4	8000	4460
CSM 300-2	198	85	42	30	60	2.0	1.0	47.62	4.62	24"	30	48	300 @ 100	10	84	112	20	1.25	4.25	12000	6320
CSM 300-3	198	85	44	30	60	3.0	1.0	49.62	6.62	24"	30	48	300 @ 100	10	152	210	20	1.25	4.25	12100	6520
CSM 450-2	198	85	42	30	60	2.0	1.0	47.62	4.62	24"	30	48	450 @ 150	15	79	106	20	1.25	4.25	13400	7760
CSM 450-3	198	85	44	30	60	3.0	1.0	49.62	6.62	24"	30	48	450 @ 150	15	135	192	20	1.25	4.25	13500	7960
CSM 600-2	228	88	48	36	60	2.0	1.0	47.62	4.62	30"	36	48	600 @ 200	20	94	125	30	1.25	7	19000	10340
CSM 600-3	228	88	50	36	60	3.0	1.0	49.62	6.62	30"	36	48	600 @ 200	20	183	252	30	1.25	7	19100	10540
CSM 750-2	258	90	54	42	60	2.0	2.5	47.62	4.62	36"	42	48	750 @ 250	25	97	129	45	2	3	24600	13560
CSM 750-3	258	90	56	42	60	3.0	2.5	49.62	6.62	36"	42	48	750 @ 250	25	201	267	45	2	3	24700	13760
CSM 900-2	258	90	54	42	60	2.0	2.5	47.62	4.62	36"	42	48	900 @ 300	30	96	127	45	2	3	25200	14600
CSM 900-3	258	90	56	42	60	3.0	2.5	49.62	6.62	36"	42	48	900 @ 300	30	193	259	45	2	3	25300	14800



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Let.	Change	By	App			Date	DETAILED BY: KMR 4/26/05	APP. BY: KSR 01/11/10
						REF. NO.	PART NO. CSM_4	