



Culligan®

Culligan® Automatic Water Softeners

assisted living facilities

cafeterias

casinos

corporate campuses

educational facilities

food service

grocery

hotel/hospitality

institutions

laundry

theme parks

vehicle wash



Hi-Flo® 3 Automatic Water Softener

Culligan's Hi-Flo® 3 Water Softener Standard Features

- Corrosion Resistant Tanks—made from fiberglass-reinforced polyester. Additional reinforcement from continuous fiberglass overwrap. Underdrain design maximizes softener's capacity, reduces pressure loss.
- Softening Media—High quality resin provides stability and uniform size for top performance and long life.
- Cycle Controllers—Regeneration cycle may be initiated by timeclock any or every day of the week.
- Positive Motor-Driven Regeneration Valve—Motor driven piston is reliable under severe water conditions, resists dirt, iron, turbidity.
- Automatic Brine Control—Automatically measures the correct amount of brine.

Trust The Water Experts®



Culligan's Hi-Flo® 3 Automatic Water Softener

Applications and Benefits

- RO/DI Pretreatment
- Apartment buildings, assisted living facilities and hotels—Quality water for laundry, dishwashers, boilers.
- Office buildings—For heating plant pretreatment, tenant convenience, general housekeeping.
- Restaurants—For dishwashing, cleaning material savings, scale reduction.
- Car washes—Quality results, detergent and water heating savings, scale reduction.
- Light industry—For process and make-up water, boiler and cooling system pretreatment, general housekeeping.

Options

- **Dubl-Safe™ Brine System**—Positive overflow protection. Automatic refill control is backed up by shutoff float valve to minimize chance of overflow.

Warranty

Culligan's Hi-Flo® 3 water softeners are backed by a limited 1-year warranty against defects in materials, workmanship, and corrosion. The plastic conditioner tank has a 5-year warranty. See printed warranty for details.*

Some localities have corrosive water. A softener cannot correct this condition, so its printed warranty disclaims liability for corrosion of plumbing lines, fixtures, or water-using equipment. If you suspect corrosion, your independently operated Culligan dealer has equipment to control the problem.

*See printed warranty for details. Culligan will provide a copy of the warranty upon request.

System Specifications

Pressure:	30–120 psig 210–830 kPa
Vacuum:	None ¹
Temperature:	40–100°F 4 - 38°C
Electrical:	120V, 60 HZ
Turbidity:	5 NTU, max. ²
Chlorine:	1 mg/L, max. ²
Iron:	5 mg/L

¹Tank warranty is void if subject to vacuum

²See media specification for details

The contaminants or other substances removed or reduced by this water treatment device are not necessarily in your water.

“Hey Culligan Man!”®

Culligan
Trust the Water Experts®

www.culligan.com

1-800-CULLIGAN

© 2006 Culligan International Company

Printed in USA (2/06)

MooreWallace PART NO. 46956

Culligan. Hey Culligan Man, Culligan Man, Hi-Flo, Culligan Commercial @ Work, www.culligan.com and Culligan Service Network are trademarks of Culligan International Company.

Model	Resin Qty. (Ft ³)	Pipe Size	Flow Rates(gpm)		Tank Size***	
			Continuous*	Peak**	Softener	Brine****
HC-60-1.5	2	1.5"	22	29	12 x 52	18 x 38
HC-90-1.5	3	1.5"	29	37	14 x 65	24 x 40
HC-120-1.5	4	1.5"	29	37	16 x 65	24 x 40
HC-120-2	4	2"	45	60	16 x 65	24 x 48
HC-150-1.5	5	1.5"	40	55	21 x 54	24 x 48
HC-150-2	5	2"	60	78	21 x 54	24 x 48
HC-210-2	7	2"	58	76	21 x 69	24 x 48
HC-300-2	10	2"	65	85	24 x 72	30 x 48
HC-450-2	15	2"	75	100	30 x 72	30 x 48

*Flow rate at a 15 psi pressure loss.

**Flow rate at a 25 psi pressure loss.

***Dimensions are diameter by tank height.

****Brine systems are optional size shown is size most commonly selected.

Hi-Flo® 3

Automatic Water Softeners

Specifications and Operating Data

Single Tank Models	Exchange Capacity ¹ @ Salt Dosage			Service Flow Rates ²		Pipe Size	Resin Qty	Softener Tank Size	Brine Tank Size ³	Approx. Ship. Weight ³
	Minimum	Standard	Maximum	Peak Flow	Cont. Flow					
	gr @ lb	gr @ lb	gr @ lb	gpm	gpm					
	g @ kg	g @ kg	g @ kg	m ³ /hr	m ³ /hr					
HC-60-1.5	40,000/12	50,000/20	60,000/30	29	22	1.5	2	12 x 52	18 x 38	255
	2,592/5.4	3,240/9.1	3,888/13.6	6.6	5	1.5	57	305 x 1,321	457 x 965	116
HC-90-1.5	60,000/18	75,000/30	90,000/45	37	29	1.5	3	14 x 65	24 x 40	345
	3,888/8.2	4,860/13.6	5,832/20.4	8.4	6.6	1.5	85	356 x 1,651	610 x 1,016	156
HC-120-1.5	80,000/24	100,000/40	120,000/60	37	29	1.5	4	16 x 65	24 x 40	440
	5,184/10.9	6,480/18.1	7,776/27.2	8.4	6.6	1.5	113	406 x 1,651	610 x 1,016	200
HC-150-1.5	100,000/30	125,000/50	150,000/75	55	40	1.5	5	21 x 54	24 x 40	530
	6,480/13.6	8,100/22.7	9,720/34	12.5	9.1	1.5	142	533 x 1,372	610 x 1,016	240
HC-120-2	80,000/24	100,000/40	120,000/60	60	45	2	4	16 x 65	24 x 48	465
	5,184/10.9	6,480/18.1	7,776/27.2	13.6	10.2	2	113	406 x 1,651	610 x 1,219	211
HC-150-2	100,000/30	125,000/50	150,000/75	78	60	2	5	21 x 54	24 x 48	555
	6,480/13.6	8,100/22.7	9,720/34	17.7	13.6	2	142	533 x 1,372	610 x 1,219	252
HC-210-2	140,000/42	175,000/70	210,000/105	76	58	2	7	21 x 69	24 x 48	680
	9,072/19.1	11,340/31.8	13,608/47.6	17.3	13.2	2	198	533 x 1,753	610 x 1,219	308
HC-300-2	200,000/60	250,000/100	300,000/150	85	65	2	10	24 x 72	30 x 48	935
	12,960/27.2	16,200/45.4	19,440/68	19.3	14.8	2	283	610 x 1,829	762 x 1,219	424
HC-450-2	300,000/90	375,000/150	450,000/225	100	75	2	15	30 x 72	30 x 48	1420
	19,440/40.8	24,300/68	29,160/102	22.7	17	2	425	762 x 1,829	762 x 1,219	644

¹ Exchange capacities based on treating water containing 10 grains per gallon (171 mg/l) of hardness (expressed as calcium carbonate), free of color, oil, turbidity and at a service flow rate of approximately 50 percent of the peak flow rate. These are nominal capacities and will vary with influent water characteristics, water temperature and other factors.

² Operation of a softener at peak flow rate for extended periods of time may result in a slight reduction of softening capacity. This is due to premature hardness breakthrough. Peak flow shown is at a 25 psi (172 kPa) pressure loss. Continuous flow shown is at a 15 psi (103 kPa) pressure loss.

³ Brine system shown is optional. Multiple sizes are available. Size shown is size most often selected for the system. Shipping weight includes brine system.

NOTE: Operational, maintenance and replacement requirements are essential for this product to perform as advertised. Specifications shown are for single models. Also available in multiple tank configurations.



Commercial Systems
 ©2005 Culligan 5/05
 1-800-Culligan
 www.culligan.com

CULLIGAN LIFETIME LIMITED WARRANTY

SOFT-MINDER[®] TWIN PLUS /HI-FLO[®] 3 WATER SOFTENERS

You have just purchased one of the finest water conditioners made. As an expression of our confidence in Culligan International Company products, your water conditioner is warranted to the original end-user, when installed in accordance with Culligan International Company specifications, against defects in material and workmanship from the date of original installation, as follows:

For a period of ONE YEAR	The entire unit
For a period of THREE YEARS	The control valve body, but excluding its internal parts
For a period of FIVE YEARS	The fiberglass-reinforced conditioner tank*
For a period of FIVE YEARS	The conditioner tank if it has an epoxy-phenolic coated interior
For the LIFETIME of the original consumer purchaser	The Tripl-Hull[™] conditioner tank

*The tank must be protected by a vacuum breaker device as described in the unit's operating manual. Damage to the tank caused by vacuum is not covered by this warranty. The unit must be used in operating conditions that conform to Culligan's recommended design guidelines.

If a part described above becomes defective, within the specified period, you should notify your independently operated Culligan dealer and arrange a time during normal business hours for the dealer to inspect the water conditioner on your premises. Any part found defective within the terms of this warranty will be repaired or replaced by the dealer. You pay only freight from our factory and local dealer charges.

We are not responsible for damage caused by accident, fire, flood, freezing, Act of God, misuse, misapplication, neglect, alteration, installation or operation contrary to our printed instructions, or by the use of accessories or components which do not meet Culligan specifications, is not covered by this warranty.

Our product performance specifications are furnished with each water conditioning unit. TO THE EXTENT PERMITTED BY LAW, CULLIGAN DISCLAIMS ALL IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE; TO THE EXTENT REQUIRED BY LAW, ANY SUCH IMPLIED WARRANTIES ARE LIMITED IN DURATION TO THE ONE-YEAR PERIOD SPECIFIED ABOVE FOR THE ENTIRE CONDITIONER. As a manufacturer, we do not know the characteristics of your water supply or the purpose for which you are purchasing a water conditioner. The quality of water supplies may vary seasonally or over a period of time, and your water usage rate may vary as well. Water characteristics can also differ considerable if your water conditioner is moved to a new location. For these reasons, we assume no liability for the determination of the proper equipment necessary to meet your requirements, and we do not authorize others to assume such obligations for us. Further, we assume no liability and extend no warranties, express or implied, for the use of this product with a non-potable water source. CULLIGAN'S OBLIGATIONS UNDER THIS WARRANTY ARE LIMITED TO THE REPAIR OR REPLACEMENT OF THE FAILED PARTS OF THE WATER CONDITIONER, AND WE ASSUME NO LIABILITY WHATSOEVER FOR DIRECT, INCIDENTAL, CONSEQUENTIAL, SPECIAL, GENERAL, OR OTHER DAMAGES.

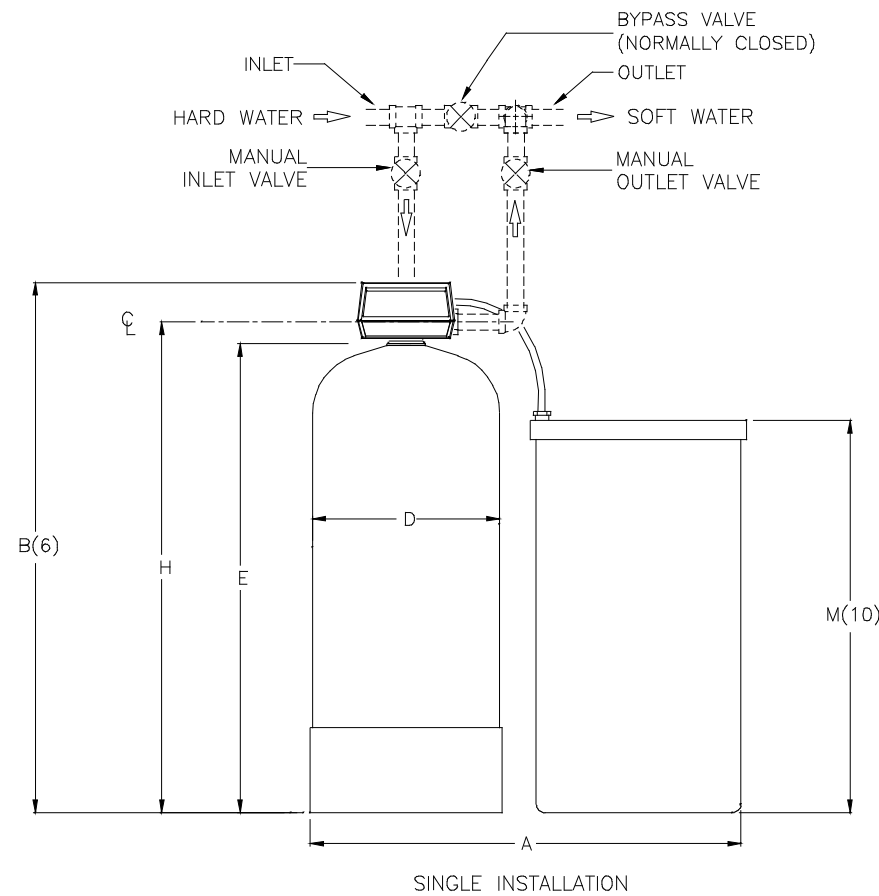
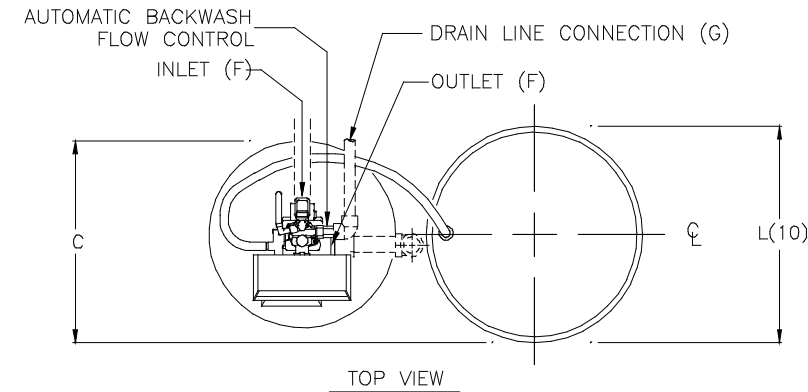
Some states do not allow the exclusions of implied warranties or limitations on how long an implied warranty lasts, so the above exclusion may not apply to you. Similarly, some states do not allow the exclusion of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Consult your telephone directory for your local independently operated Culligan dealer, or write Culligan International Company for warranty and service information.

**CULLIGAN INTERNATIONAL COMPANY
One Culligan Parkway
Northbrook, Illinois 60062**

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

MODEL	DIMENSIONS (INCHES)										UNIT DATA PER TANK				DRAIN FLOW gpm	MIN. DRAIN PIPE SIZE IN.	SIMPLEX OPER. WT. lbs.	SIMPLEX SHIP. WT. lbs.
	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				
HC-60-1.5	37	59	19	12	52	1.5	1.0	55	18	38	60 @ 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	62	24	21	55	1.5	1.0	58	24	40	150 @ 75	5	40	55	12	1.0	1585	530



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

Culligan®
ENGINEERED SYSTEMS
 NORTHBROOK, ILLINOIS

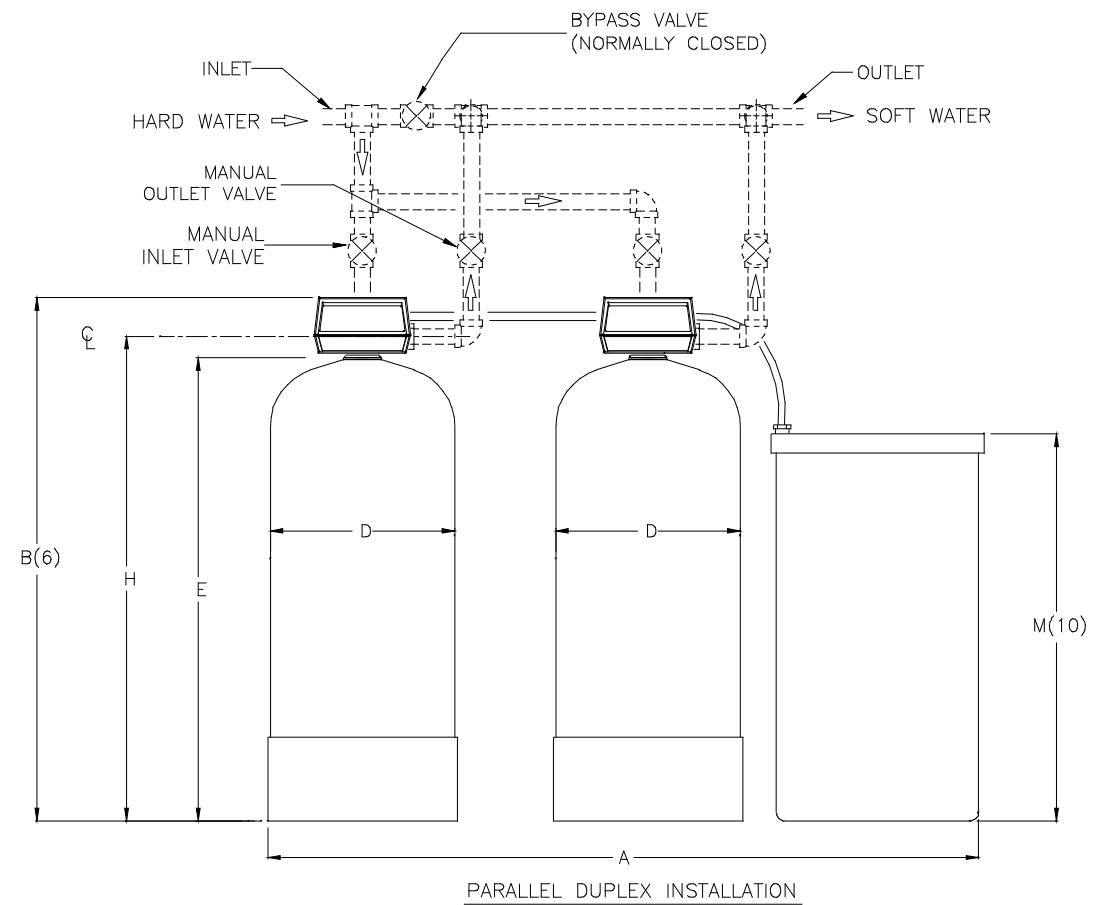
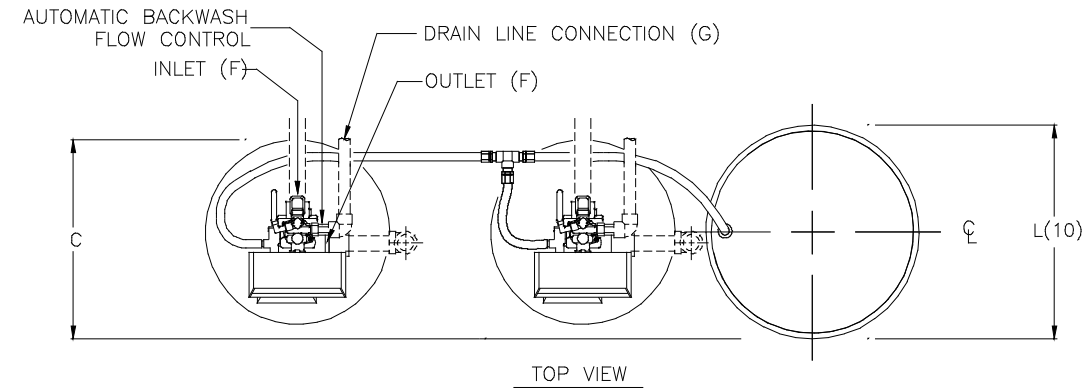
PRINT AND BILL OF MATERIAL ARE NOT TO BE USED WITHOUT THE WRITTEN CONSENT OF CULLIGAN INTERNATIONAL CO.

NAME HI-FLO® 3 AUTOMATIC SOFTENER SINGLE TECHNICAL DATA SHEET		
DETAILED BY: KMR 5/03/05	APP. BY:	SHEET 1 OF 1
REF. NO.	PART NO. S3_2850_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) 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.

MODEL	DIMENSIONS (INCHES)										UNIT DATA PER TANK					DRAIN FLOW gpm	MIN. DRAIN PIPE SIZE IN.	DUPLEX OPER. WT. lbs.	DUPLEX SHIP. WT. lbs.
	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					
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	62	24	21	55	1.5	1.0	58	24	40	150 @ 75	5	40	55	12	1.0	2365	1025	



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

Let.	Change	By	App	Date

Culligan®
ENGINEERED SYSTEMS
NORTHBROOK, ILLINOIS

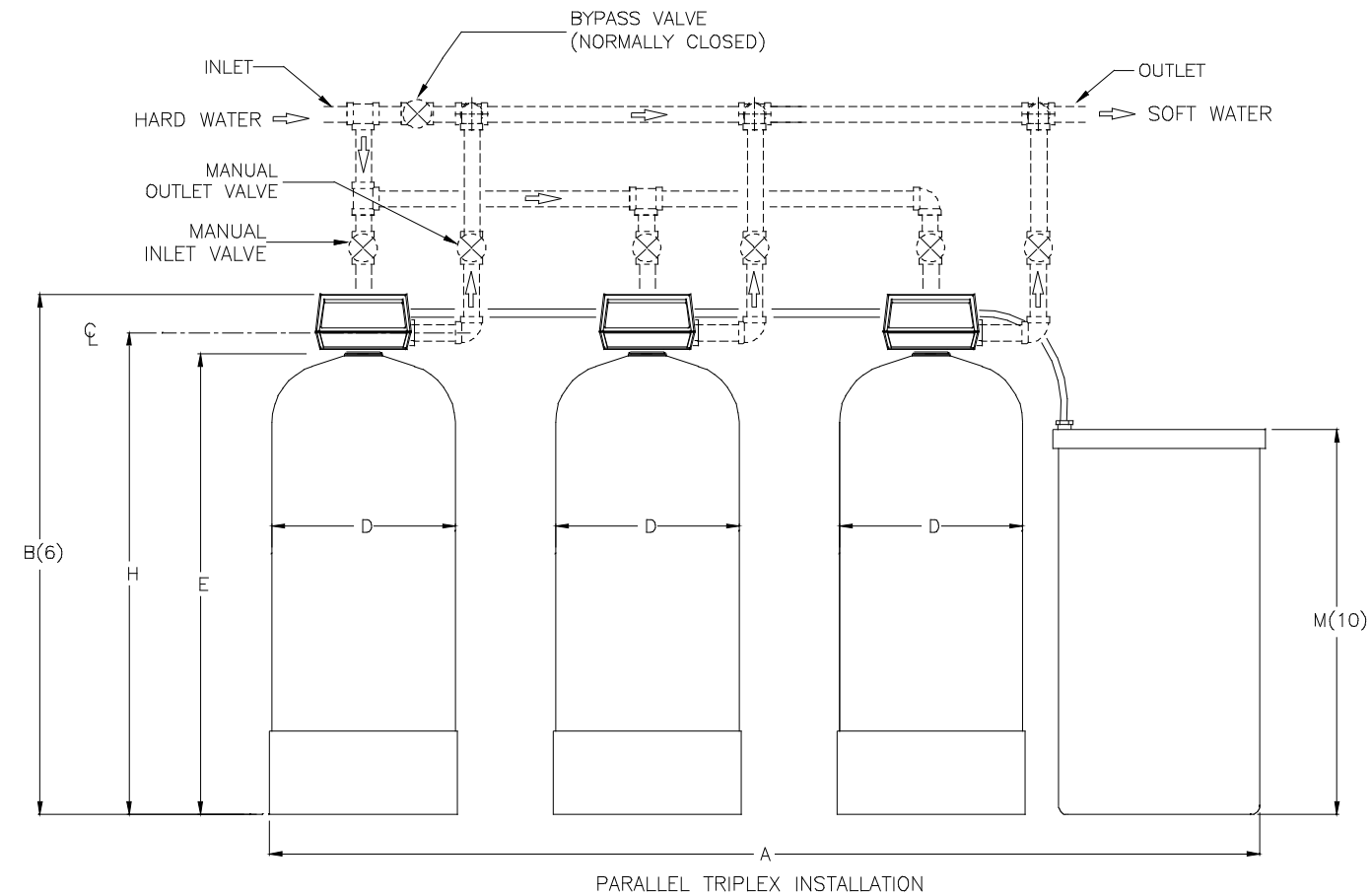
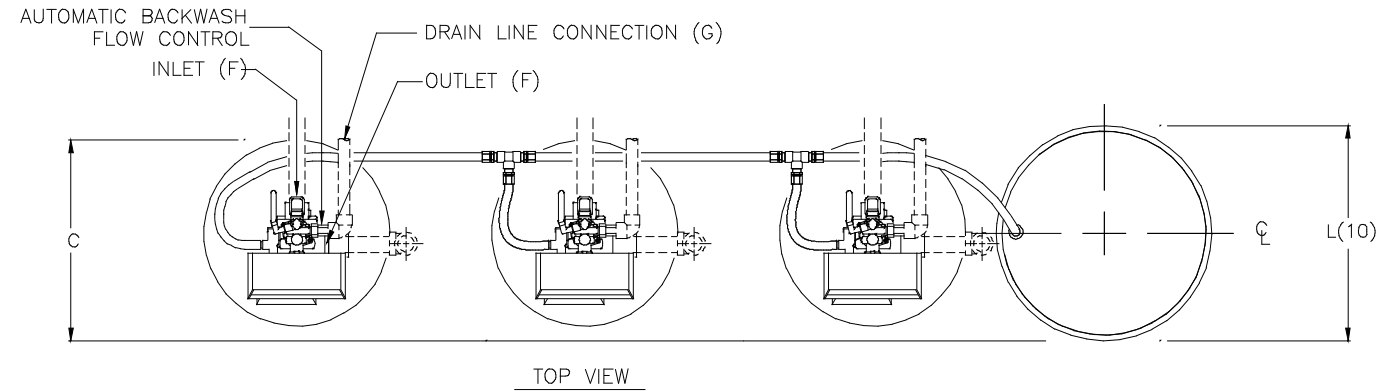
PRINT AND BILL OF MATERIAL ARE NOT TO BE USED WITHOUT THE WRITTEN CONSENT OF CULLIGAN INTERNATIONAL CO.

NAME HI-FLO® 3 AUTOMATIC SOFTENER DUPLEX TECHNICAL DATA SHEET		
DETAILED BY: KMR 5/03/05	APP. BY:	SHEET 1 OF 1
REF. NO.	PART NO. S3_2850_2	

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) BRINE TANK DIMENSIONS SHOWN ARE FOR THE BRINE TANK MOST COMMONLY SELECTED FOR USE WITH THIS SIZE 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.	TRIPLEX OPER. WT. lbs.	TRIPLEX SHIP. WT. 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	62	24	21	55	1.5	1.0	58	24	40	150 @ 75	5	40	55	12	1.0	3145	1520



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

Culligan®
ENGINEERED SYSTEMS
NORTHBROOK, ILLINOIS

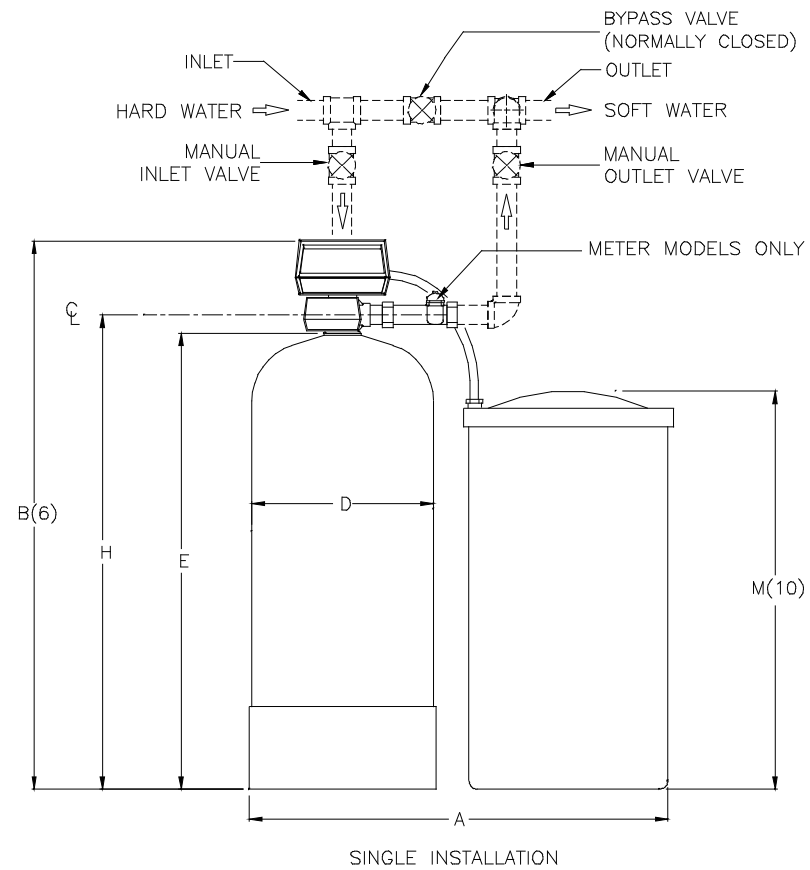
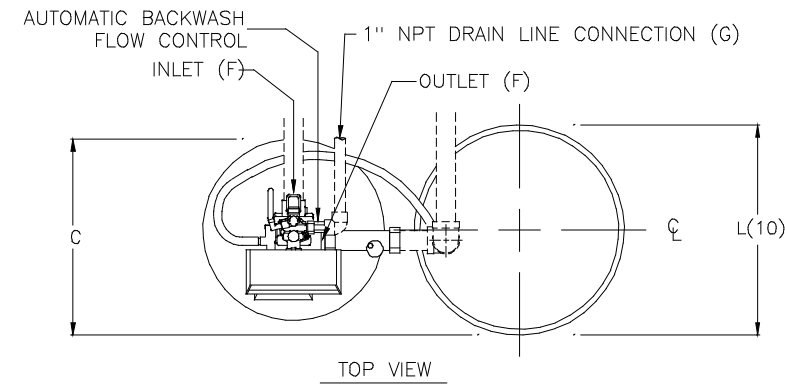
PRINT AND BILL OF MATERIAL ARE NOT TO BE USED WITHOUT THE WRITTEN CONSENT OF CULLIGAN INTERNATIONAL CO.

NAME HI-FLO® 3 AUTOMATIC SOFTENER TRIPLEX TECHNICAL DATA SHEET		
DETAILED BY: KMR 5/03/05	APP. BY:	SHEET 1 OF 1
REF. NO.	PART NO. S3_2850_2	

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) BRINE TANK DIMENSIONS SHOWN ARE FOR THE BRINE TANK MOST COMMONLY SELECTED FOR USE WITH THIS SIZE 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.
HC-120	45	76	21	16	65	2.0	1.0	67.2	24	48	120 @ 60	4	45	60	8	1.0	1630	465
HC-150	50	66	24	21	55	2.0	1.0	57.2	24	48	150 @ 75	5	60	78	12	1.0	1810	555
HC-210	50	82	24	21	71	2.0	1.0	73.2	24	48	210 @ 105	7	58	76	8	1.0	1970	680
HC-300	60	84	28.50	24	73	2.0	1.0	75.2	30	48	300 @ 150	10	65	85	15	1.25	2775	935
HC-450	65	92	31.50	30	81	2.0	1.0	83.0	30	48	450 @ 225	15	75	100	25	1.5	3580	1420



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

Let.	Change	By	App	Date

Culligan®
ENGINEERED SYSTEMS
NORTHBROOK, ILLINOIS

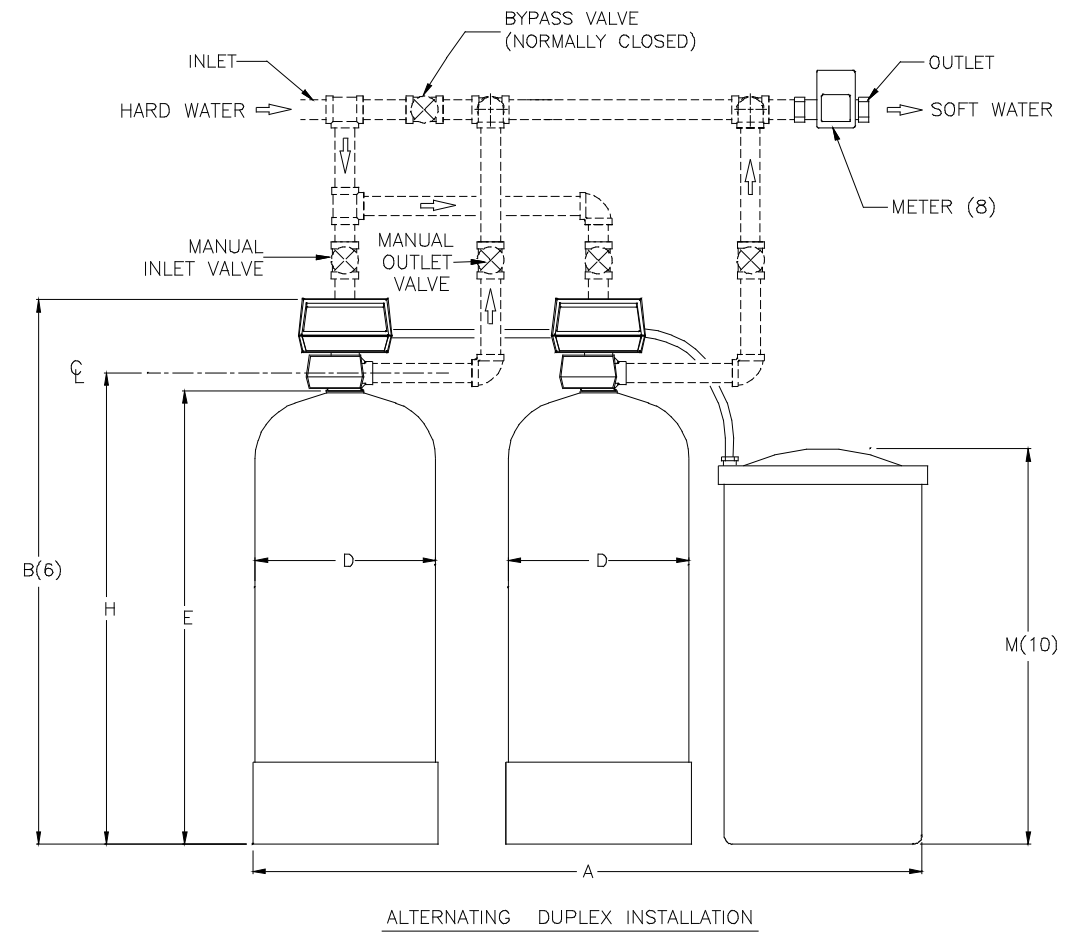
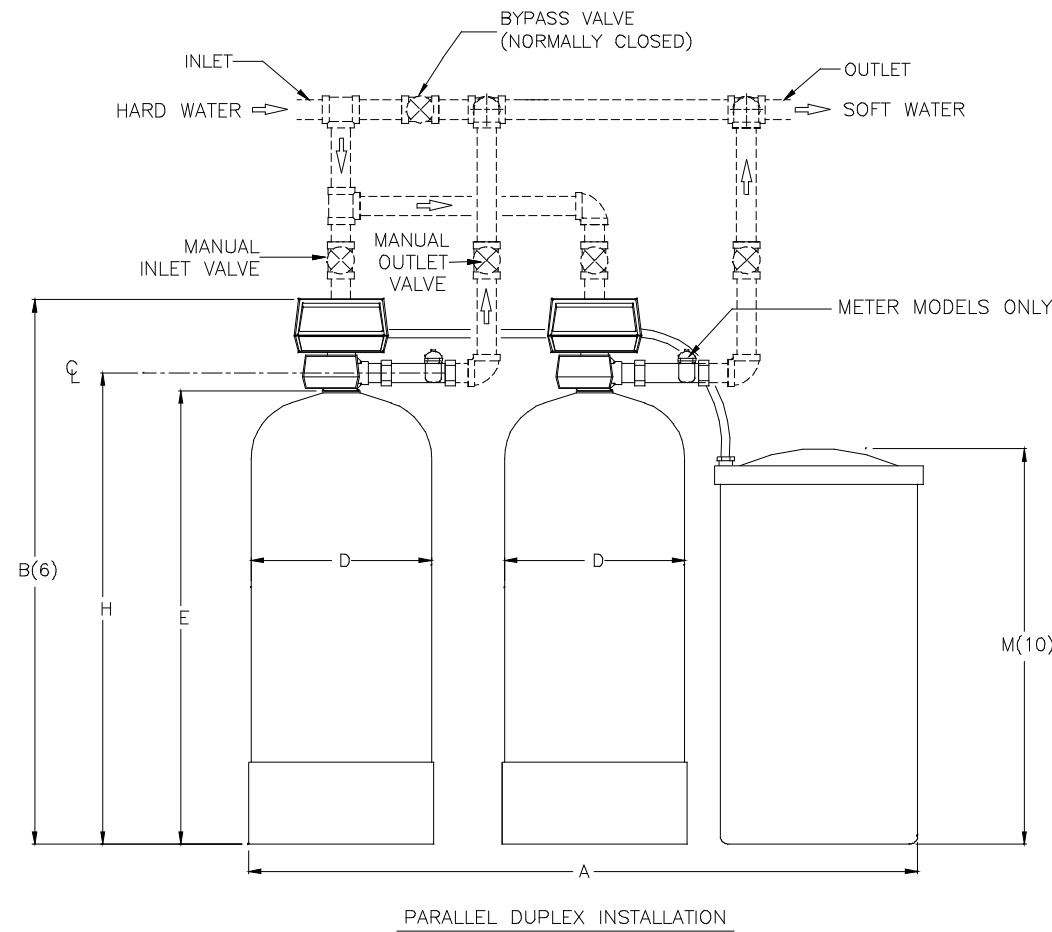
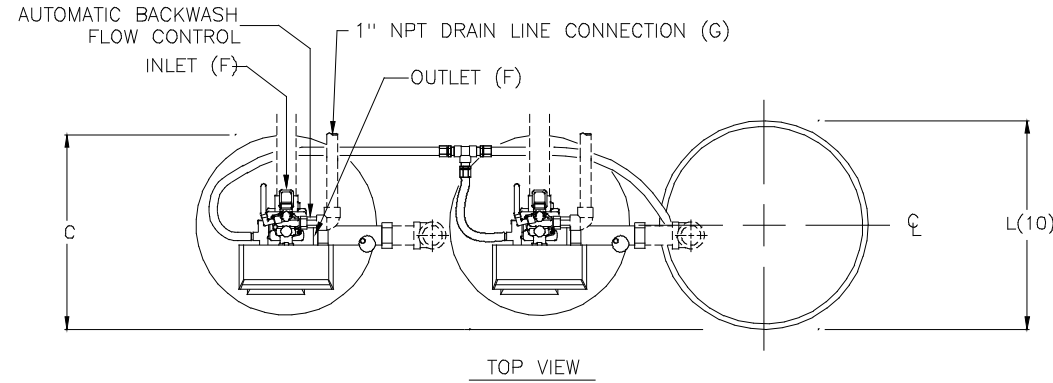
PRINT AND BILL OF MATERIAL ARE NOT TO BE USED WITHOUT THE WRITTEN CONSENT OF CULLIGAN INTERNATIONAL CO.

NAME HI-FLO® 3 AUTOMATIC SOFTENER SINGLE TECHNICAL DATA SHEET		
DETAILED BY: KMR 5/03/05	APP. BY:	SHEET 1 OF 1
REF. NO.	PART NO. S3_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) 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.

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.
HC-120	72	76	21	16	65	2.0	1.0	67.2	24	48	120 @ 60	4	45	60	8	1.0	2210	880
HC-150	82	66	24	21	55	2.0	1.0	57.2	24	48	150 @ 75	5	60	78	12	1.0	2600	1060
HC-210	82	82	24	21	71	2.0	1.0	73.2	24	48	210 @ 105	7	58	76	8	1.0	2950	1310
HC-300	93	84	28.50	24	73	2.0	1.0	75.2	30	48	300 @ 150	10	65	85	15	1.25	4080	1800
HC-450	106	92	31.50	30	81	2.0	1.0	83.0	30	48	450 @ 225	15	75	100	25	1.5	5590	2770



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

Let.	Change	By	App	Date

Culligan®
ENGINEERED SYSTEMS
NORTHBROOK, ILLINOIS

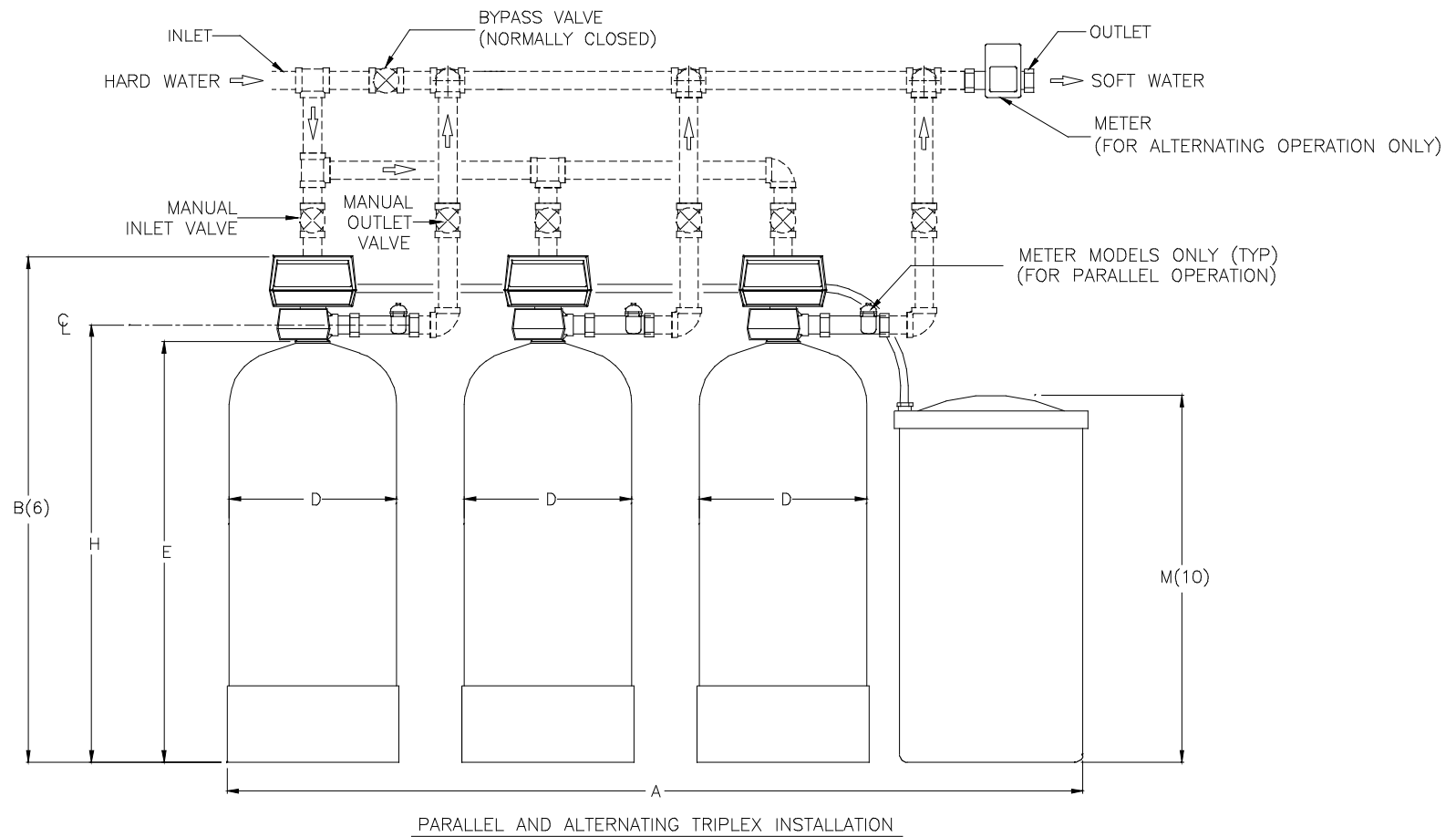
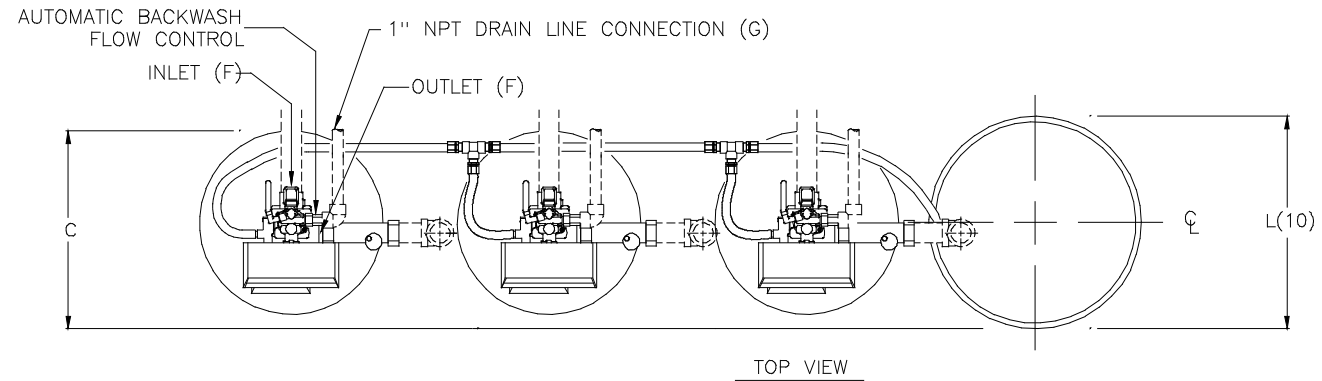
PRINT AND BILL OF MATERIAL ARE NOT TO BE USED WITHOUT THE WRITTEN CONSENT OF CULLIGAN INTERNATIONAL CO.

NAME HI-FLO® 3 AUTOMATIC SOFTENER DUPLEX TECHNICAL DATA SHEET		
DETAILED BY: KMR 5/03/05	APP. BY:	SHEET 1 OF 1
REF. NO.	PART NO. S3_2	

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) BRINE TANK DIMENSIONS SHOWN ARE FOR THE BRINE TANK MOST COMMONLY SELECTED FOR USE WITH THIS SIZE 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.	TRIPLEX OPER. WT. lbs.	TRIPLEX SHIP. WT. lbs.
HC-120	99	76	21	16	65	2.0	1.0	67.2	24	48	120 @ 60	4	45	60	8	1.0	2790	1295
HC-150	114	66	24	21	55	2.0	1.0	57.2	24	48	150 @ 75	5	60	78	12	1.0	3390	1565
HC-210	114	82	24	21	71	2.0	1.0	73.2	24	48	210 @ 105	7	58	76	8	1.0	3930	1940
HC-300	126	84	28.50	24	73	2.0	1.0	75.2	30	48	300 @ 150	10	65	85	15	1.25	5385	2665
HC-450	147	92	31.50	30	81	2.0	1.0	83.0	30	48	450 @ 225	15	75	100	25	1.5	7600	4120



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

Let.	Change	By	App	Date

Culligan®
ENGINEERED SYSTEMS
NORTHBROOK, 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: KMR 5/03/05	APP. BY:	SHEET 1 OF 1
REF. NO.	PART NO. S3_3	