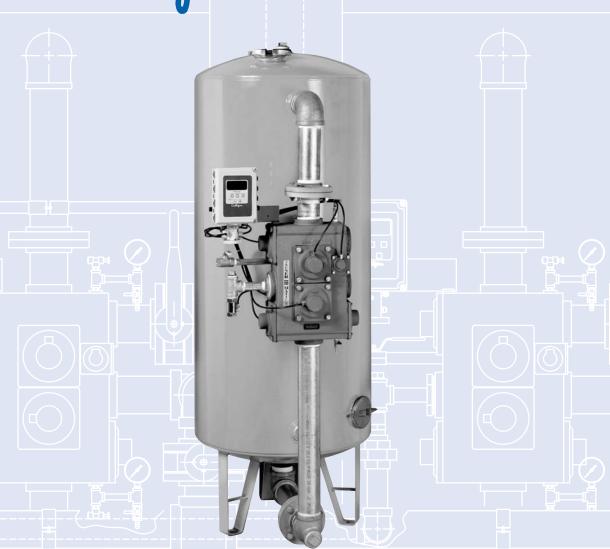




Culligan_® Heavy Duty Commercial Filter

assisted living facilities cafeterias casinos corporate campuses educational facilities food service grocery hotel/hospitality institutions laundry theme parks vehicle wash



Culligan Side Mount (CSM[™]) Heavy Duty Commercial Filter

Standard Features

- Side mount valve means easy access for convenient service.
- 24 Volt Culligan's MVP[™] Controller Field programmable with a back-lit LCD display and UL listed 120v/24v transformer.
- Single or Multiple Tank Configurations Flow rates up to 77 gpm(carbon) and 193 gpm(depth).
- Regeneration initiation by choice or combination of time clock, flow meter or differential pressure switch.

- Carbon and Depth Filters
- Culligan's Brunermatic_® Valve Guided perimeter designed diaphragm valves are smooth operating and free of water hammer. All valve parts are easily accessible in the multiport design for ease of service.
- Corrosion resistant tanks Made of low carbon steel with epoxy interior lining and finish coat painted exterior.

Trust The Water Experts®



Culligan's CSM[™] Commercial Filter

Applications and Benefits

- · Food and Beverage-Superior taste and increased cost savings.
- · Drinking Water-Reduces turbidity and chlorine; improves taste and clarity.
- · Boilers-Turbidity reduction, minimize sludge blowdown.

· Light Industry Processes—Reduces particulate matter.

Pressure:

Power:

- Pretreatment—For softeners, RO's and DI systems.
- · Vehicle Wash—Turbidity reduction.

Options

- · Patented Progressive Flow-Culligan's MVP controller can monitor flow demands, bringing additional tanks on-line or off-line as flows increase or decrease.
- Differential Pressure Switch
- A.S.M.E. Code Tanks
- Sample cocks and pressure gauges

Specifications Table

- · Separate source regeneration kits
- Skid mounting • Flow meter

Warranty

Culligan's CSM water filters are backed by a limited 1-year warranty against defects in material, workmanship and corrosion. In addition, tanks carry a limited 5-year warranty.*

System Specifications

30–100 psig 207–690 kPa 120 VAC/24 VAC 50/60 Hz Temperature: 40-120°F 4-49°C

				Water	Quality				
		Supe	erior ¹	Hi	gh²	Util	ity ³	Backwash	Valve
	Model	Flow Rate (GPM)	Pressure Loss (PSI)	Flow Rate (GPM)	Pressure Loss (PSI)	Flow Rate (GPM)	Pressure Loss (PSI)	Flow Rate (GPM)	Size (inches)
rs	<i>CSM</i> -201R	9	1	14	2	18	3	20	1.25
Carbon Filters	<i>CSM</i> -242R	13	2	19	3	26	5	30	2
I nc	<i>CSM</i> -302R	20	3	30	4	40	6	45	2
arbo	<i>CSM</i> -362R	29	2	42	4	57	7	70	2
0	<i>CSM</i> -422R	39	3	58	6	77	9	95	2
	<i>CSM</i> -201D	22	6	33	12	44	19	30	1.25
s	<i>CSM</i> -202D	22	3	33	5	44	8	30	2
ilter	<i>CSM</i> -242D	32	4	48	8	63	13	45	2
ΗΗ	<i>CSM</i> -302D	50	6	74	13	99	20	70	2
Depth Filters	<i>CSM</i> -362D	71	9	107	17	142	27	105	2
	<i>CSM</i> -422D	97	11	145	22	193	33	150	2
	CSM-423D	97	6	145	11	193	16	150	3

¹Superior – Best quality water with lowest pressure loss. Recommended for influent suspended solid loads up to and greater than 300 ppm.

²High – Very good quality water with increased pressure loss. Recommended for influent suspended solid loads less than 300 ppm.
 ³Utility – Satisfactory quality water with greatest pressure loss. Shorter on line time between backwashing. Recommended for influent suspended solid loads less than 150 ppm.

All pressure drop figures are based on new filter media and a water temperature of 60°F. Depth filters are capable of 10 micron effluent water quality, whereas all other filter types are capable of 40 micron effluent water quality.

"Hey Culligan Man!"



www.culligan.com™ 1-800-CULLIGAN

©2006 Culligan International Company Printed in USA (2/06) MooreWallace PART NO. 46957 CSM product formerly sold under the Bruner label and/or CF20 Plus model designation.

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

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



The product is covered by the following patents:

Controller Board Assembly: US 5351199, 5751598 Contoller Board Assembly. US 3331177, J31376, Canada 200757; DE 69204445.0; KR 215487; JP 3226284 Filter: US 5073255, 5273070, 6457698, 4534867; Israel 095754

Products manufactured and marketed by Culligan International Company (Culligan) and its affiliates are protected by patents issued or pending in the United States and other countries. Culligan reserves the right to change the specifications referred to in this literature at any time, without prior notice. Culligan., Brunermatic, Hey Culligan Man, Culligan Man, Culligan Commercial @ Work, www.culligan.com and Culligan Service Network are trademarks of Culligan International Company or its affiliates

CSM_® Automatic Depth Filters

For Sediment Reduction

Specifications and Operating Data

		Service Flow Rates ¹							
				Back-				Approx.	
				wash	Pipe	Media	Filter Tank	Ship.	
Single Tank	Superior Quality	High Quality	Utility Quality	Flow ²	Size	Qty	Size	Weight	
	gpm @ psi drop	gpm @ psi drop	gpm @ psi drop	gpm	in.	lbs	in	lb	
Models	m ³ /hr @ kPa drop	m ³ /hr @ kPa drop	m ³ /hr @ kPa drop	m³/hr	in.	kg	mm	kg	
CSM-202D	22 @ 3	33 @ 5	44 @ 8	30	2	571	20 x 54	1096	
	5 @ 20.7	7.5 @ 34.5	10 @ 55.2	6.8	2	259	508 x 1,372	497	
CSM-242D	32 @ 4	48 @ 8	63 @ 13	45	2	830	24 x 54	1658	
	7.3 @ 27.6	10.9 @ 55.2	14.3 @ 89.6	10.2	2	376	610 x 1,372	752	
CSM-302D	50 @ 6	74 @ 13	99 @ 20	75	2	1244	30 x 60	2414	
	11.4 @ 41.4	16.8 @ 89.6	22.5 @ 138	17	2	564	762 x 1,524	1095	
CSM-362D	71 @ 9	107 @ 17	142 @ 27	105	2	1765	36 x 60	4030	
	16.1 @ 62	24.3 @ 117	32.2 @ 186	23.8	2	801	914 x 1,524	1828	
CSM-422D	97 @ 11	145 @ 22	193 @ 33	150	2	2488	42 x 60	5008	
	22 @ 75.8	32.9 @ 152	43.8 @ 228	34.1	2	1129	1,067 x 1,524	2272	
CSM-423D	97@6	145 @ 11	193 @ 16	150	3	2488	42 x 60	5008	
	22 @ 41.4	32.9 @ 75.8	43.8 @ 110	34.1	3	1129	1,067 x 1,524	2272	

¹ Service flow rates are based on:

Superior (10 gpm/ft² - 24 m³/hr/m²) - Best quality effluent at specified flow. Lowest pressure loss. Recommended for suspended solids loads up to and greater than 300 ppm.

High (15 gpm/ft² - 37 m³/hr/m²) - Very good quality effluent at specified flow. Increased pressure loss. Recommended for suspended solids loads < 300 ppm.

Utility (20 gpm/ft² - 49 m³/hr/m²) - Satisfactory quality effluent at specified flow. Greatest pressure loss. Recommended for suspended solids loads of < 150 ppm.

² Backwash flow rates are based on 12-14 gpm/ft² (29-34 m³/hr/m²) using 50° F (10° C) water. A different backwash rate may be required depending upon water temperature.

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.

Cullígan.

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$\mathsf{CSM}_{\mathbb{R}}$

Automatic Cullar_® Filters For Dechlorination and Organic Adsorption

Specifications and Operating Data

	Service F	ow Rates					
Single Tank	Taste, Odor & Organic Removal ¹	Dechlorination ²	Back-wash Flow ³	Pipe Size	Media Qty	Filter Tank Size	Approx. Ship. Weight
	gpm @ psi drop	gpm @ psi drop	gpm	in.	ft³	in	lb
Models	m³/hr @ kPa drop	m³/hr @ kPa drop	m³/hr	in.	m³	mm	kg
CSM-201R	9@1	18 @ 3	20	1-1/4	6	20 x 54	690
	2 @ 6.9	4.1 @ 20.7	4.5	1-1/4	0.17	508 x 1,372	313
CSM-242R	13 @ 2	26 @ 5	30	2	8	24 x 54	1048
	3 @ 13.8	5.9 @ 34.5	6.8	2	0.227	610 x 1,372	475
CSM-302R	20 @ 3	40 @ 6	45	2	12	30 x 60	1500
	4.5 @ 20.7	9.1 @ 41.4	10.2	2	0.34	762 x 1,524	680
CSM-362R	29 @ 2	57 @ 7	70	2	18	36 x 60	2760
	6.6 @ 13.8	12.9 @ 48.3	15.9	2	0.51	914 x 1,524	1252
CSM-422R	1-422R 39 @ 3 77 @ 9		95	2	24	42 x 60	3180
	8.9 @ 20.7	17.5 @ 62	21.6	2	0.68	1,067 x 1,524	1442

¹ Service flow rates for taste, odor & organic removal are based on 5 gpm/ft² (12 m³/hr/m²).

 2 Service flow rates for dechlorination are based on 10 gpm/ft² (24 m³/hr/m²).

³ Backwash flow rates are based on 10 gpm/ft² (24 m³/hr/m²) using 50° F (10° C) water. A different backwash rate may be required depending upon water temperature or the type of carbon used.

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.



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Cullígan

Softeners

- Hi-Flo_® 2E
- CSM
- *Hi-Flo*_® 55E
- Hi-Flo_® 50

Filters

- *Hi-Flo*_® 2*E*
- Hi-Flo_® 42
- CSM
- Hi-Flo_® 55E
- Hi-Flo_® 50

Introducing the Culligan® MVP Electronic Controller

Multifunctional

- Sequences the regeneration process of water softeners or filtration systems
- Can be used as a simple timer or more complex system integrator

Versatile

- Patented Progressive Flow** feature permits
 smaller systems to provide greater flow rates and treatment capacities
- Will adapt to many types of water softeners, filters or dealkalizers
- As many as 6 controls may be linked together, allowing for simple, future expansion
- ✓ Operates on 24 VAC

Programmable

- Time based regeneration schedule can be interval of days or hours or specific day of week
- Programmable trip point allows multiple units to be brought online or offline as flow demand increases or decreases
- Two auxilliary outputs and one input can be programmed to be active or deactive at any point of the regeneration process.

Trust The Water Experts®



Culligan® MVP Designed With The Ease of 24-volt Operation.

Time of Day —

Displays time in 12 hour (AM/PM) or 24 hour formats.

corporate campuses educational facilities food service grocery hotel/hospitality laundry vehicle wash

EEPROM Saves programmed and statistical functions.

One-Touch Program Update-Update multiple controls through the touch of a button on the primary control.

Lock/Unlock

Allows the control to be easily locked out from inadvertent program changes or abuse.



Screen Blanking

Allows the screen to go blank once programming is complete (After 5 minutes of no keypad activity).

Power Source

Electrical power required for the control is 24-volt 50/60 Hz AC current. A plug-in transformer (120v/24v) is provided.

Program Beeper

Emits an audible beep when key pads are depressed to help identify valid (short beep) or invalid (3 short beeps) key pad touches. Can be enabled or disabled as desired.

Multi-Unit Communication Input/Output (RS485)

The communication input/output feature routinely recognizes when another controller within a multiple controller system is in a regeneration sequence, prohibiting the chance of multiple units

Additional MVP Features

- **Battery Backup** The optional battery backup will maintain the time of day for a minimum of 4 weeks using a 3.6V 1/2AA-lithium type battery as supplied by Culligan.
- **Regeneration Start Delay** A user determined number of hours (up to 9) can be input for the purpose of increasing time between multiple regeneration initiations.
- Auxillary Input capable of accepting a remote signal from a dry contact device such as an operator push-button for the purpose of initiating the regeneration sequence.
- Segmented Brine Draw/Rinse Cycle Brine Reclaim Capability - allows the user to configure the system for brine reclaim with a minimum of additional valves and/or other types of hardware.

"Hey Culligan Man!"



www.culligan.com

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MVP Controller * Aqua-Sensor: Patent # US 5,699,272

** Progressive Flow: Patent # US 5,060,167 , # US 5,351,199

Check for compliance with state and local laws and regulations. Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. Systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts.

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Limited WARRANTY

Culligan[®] Hi-Flo[®] 2 and 2e Series, Hi-Flo[®] 52 series, Hi-Flo[®] 42 Series, Hi-Flo[®] 55e Series, CSM Series and Hi-Flo[®] 50 Series

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

For a period of ONE YEAR	The entire conditioner.
For a period of TWO YEARS	The control valve internal parts. The brine valve and its component parts. The salt storage container internal components.
For a period of FIVE YEARS	The control valve body, excluding internal parts. The fiberglass wound container(s), if so equipped*. The salt storage container(s), if so equipped. The epoxy-lined steel conditioner tank(s), if so equipped.
For a period of TWELVE YEARS	The conditioner tank, if it contains a plastic liner.

* 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. This warranty will not apply if the unit has been modified, repaired or altered by someone not authorized by Culligan.

If a part described above is found 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.

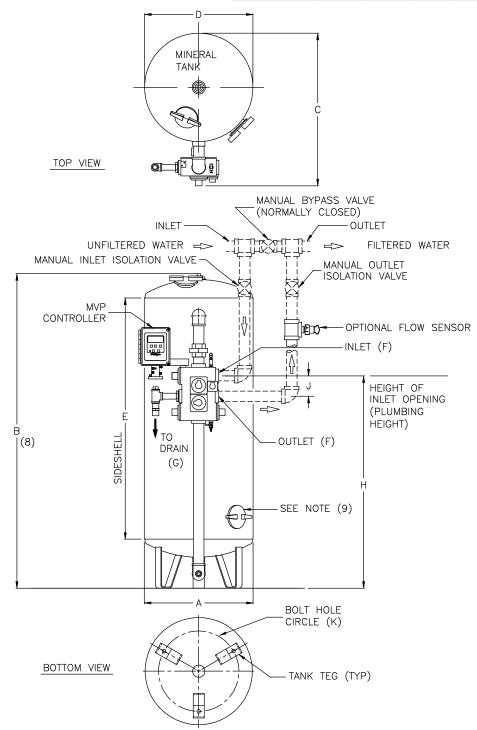
We are not responsible for damage caused by accident, fire, flood, freezing, Act of God, misuse, misapplication, neglect, oxidizing agents (such as chlorine, ozone, chloramines and other related components), alteration, installation or operation contrary to our printed instructions, or by the use of accessories or components which do not meet Culligan specifications, is not covered by this warranty. Refer to the specifications section in the Installation and Operating manual for application parameters.

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 this product. 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 considerably if this product 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 nonpotable water source or a water source which does not meet the conditions for use described in the installation and operation manual(s) that accompany the equipment. OUR 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, INDIRECT, INCIDENTAL, CONSEQUENTIAL, SPECIAL, GENERAL, OR OTHER DAMAGES.

Some states do not allow the exclusion of implied warranties or limitations on how long an implied warranty lasts, so the above limitation 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

			DI	MENSIONS	6 (INCHES	5)												
	WIDTH	HEIGHT	DEPTH	TANK DIA.	SIDE- SHELL	INLET/OUTLET PIPE SIZES	DRAIN SIZE	FLOOR TO	INLET TO OUTLET	BOLT HOLE CIRCLE DIA.	SUPERIOR QUALITY FLOW	HIGH QUALITY FLOW	UTILITY QUALITY FLOW	DRAIN FLOW	MIN. DRAIN PIPE SIZE	ASME TANK HEIGHT ADDER (8)	SIMPLEX OPER. WT.	SIMPLEX SHIP. WT.
MODEL	A	B(8)	С	D	Е	F	G	Н	J	K		gpm @ DP	gpm @ DP	gpm	IN.	IN.	lbs.	lbs.
CSM-201D	21	73	29	20	54	1.25	1.0	46.25	3.25	14"	22 @ 6	33 @ 12	44 @ 19	30	1.25	3	1365	1046
CSM-202D	21	73	29	20	54	2.0	1.0	47.62	4.62	14"	22 @ 3	33 @ 5	44 @ 8	30	1.25	3	1415	1096
CSM-242D	25	74	33	24	54	2.0	2.5	47.62	4.62	18"	32 @ 4	48 @ 8	63 @ 13	46	1.5	4	2215	1658
CSM-302D	31	85	40	30	60	2.0	3.0	47.62	4.62	24"	50 @ 6	74 @ 13	99 @ 20	76	2	4.25	3560	2414
CSM-362D	37	88	46	36	60	2.0	3.0	47.62	4.62	30"	71 @ 9	107 @ 17	142 @ 27	105	2	7	5600	4030
CSM-422D	43	90	53	42	60	2.0	4.0	47.62	4.62	36"	97 @ 11	145 @ 22	193 @ 33	150	2.5	3	6470	5008
CSM-423D	43	90	54	42	60	3.0	4.0	49.62	6.62	36"	97 @ 6	145 @ 11	193 @ 16	150	2.5	3	6520	5058



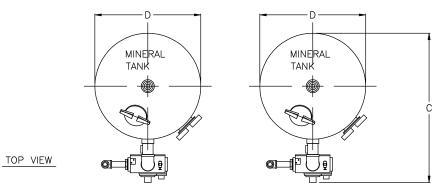
NOTES:

- (1) PIPING AND FITTINGS SHOWN DASHED TO BE FURNISHED BY OTHERS.
- (2) ALL DIMENSIONS ARE IN INCHES (±1 INCH) AND ARE SUBJECT TO CHANGE WITHOUT NOTICE.
- (3) UNIONS SHOULD BE LOCATED ON INLET, OUTLET, AND DRAIN 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 RECOMMENEDED THAT A DEDICATED 120 VOLT CIRCUIT IS PROVIDED.
- (6) ALLOW A MINIMUM OF 24 INCHES ABOVE FILTER 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) ACCESS OPENINGS SHOWN ON TANK ARE FOR REFERENCE ONLY. QUANTITY, TYPE AND PLACEMENT ARE DEPENDENT ON TANK SIZE.

Culligan ENGINEERED SYST	NOTED	WISE		DO NOT SCALE DRAN TOLERANCES: ±1/8" UNLESS C	
FNGINFERED	Date	Арр	By	Change	Let.
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TO BE USED WITHOUT THE WRI CONSENT OF CULLIGAN INTERNATI					

gan [®] SYSTEMS		CSM K DEPTH FILT CAL DATA SHE	
K, ILLINOIS	DETAILED BY: KMR 7/1/03	APP. BY:	SHEET 1 OF 1
NATERIAL ARE NOT OUT THE WRITTEN N INTERNATIONAL CO.	REF. NO.	PART NO. CSM_SIM	IP_DEPTH

	DIMENSIONS (INCHES)												ANK					
											SUPERIOR	SUPERIOR HIGH				ASME TANK		
	WIDTH	HEIGHT	DEPTH	TANK DIA.	SIDE- SHELL	INLET/OUTLET PIPE SIZES	DRAIN SIZE	FLOOR TO	INLET TO	BOLT HOLE CIRCLE DIA.	QUALITY FLOW	QUALITY FLOW	QUALITY FLOW	DRAIN FLOW	MIN. DRAIN PIPE SIZE	HEIGHT ADDER (8)	DUPLEX OPER. WT.	DUPLEX SHIP. WT.
MODEL	A	B(8)	C	DIA. D	E	FIFE SIZES F	G	H	J	K	gpm @ DP		gpm @ DP	gpm	IN.	IN.	Ibs.	Ibs.
CSM-201D	54	73	29	20	54	1.25	1.0	46.25	3.25	14"	22 @ 6	33 @ 12	44 @ 19	30	1.25	3	2730	2092
CSM-202D	54	73	29	20	54	2.0	1.0	47.62	4.62	14"	22 @ 3	33 @ 5	44 @ 8	30	1.25	3	2830	2192
CSM-242D	62	74	33	24	54	2.0	2.5	47.62	4.62	18"	32 @ 4	48 @ 8	63 @ 13	46	1.5	4	4430	3316
CSM-302D	74	85	40	30	60	2.0	3.0	47.62	4.62	24"	50 @ 6	74 @ 13	99 @ 20	76	2	4.25	7120	4828
CSM-362D	86	88	46	36	60	2.0	3.0	47.62	4.62	30"	71 @ 9	107 @ 17	142 @ 27	105	2	7	11200	8060
CSM-422D	98	90	53	42	60	2.0	4.0	47.62	4.62	36"	97 @ 11	145 @ 22	193 © 33	150	2.5	3	12940	10016
CSM-423D	98	90	54	42	60	3.0	4.0	49.62	6.62	36"	97 @ 6	145 @ 11	193 @ 16	150	2.5	3	13040	10116



MANUAL BYPASS VALVE (NORMALLY CLOSED) INLET - OUTLET UNFILTERED WATER 🖘 ᡝ᠇ᡵᡬᢆ᠇᠇᠋ᡏ᠆᠋᠋ᠯ -----n ⇒ FILTERED WATER - ᇺ ᆕᆂᆂ MANUAL OUTLET ·ᠠᡛ᠆ᡫ⊦᠂ MANUAL INLET ISOLATION VALVE-E _____ Z\$ 5-7 K MVP ⊕ OPTIONAL FLOW SENSOR CONTROLLER __ þ**e**d**o** •••• -INLET (F) \mathbb{N} Π HEIGHT OF -72 INLET OPENING \odot \odot -11-(PLUMBING HEIGHT) -OUTLET (F) (8) SIDESHEL ⊢⊞2 TO DRAIN (G) -SEE NOTE (9) Ð t 0 BOLT HOLE CIRCLE (K) BOTTOM VIEW (TYP) - TANK TEG (TYP)

NOTES:

(1) PIPING AND FITTINGS SHOWN DASHED TO BE FURNISHED

- (2) ALL DIMENSIONS ARE IN INCHES (±1 INCH) AND ARE SUB
- (3) UNIONS SHOULD BE LOCATED ON INLET, OUTLET, AND DRA TO FACILITATE SERVICING.
- (4) THE USE OF DISSIMILAR METALS IN A PIPING SYSTEM IS N DISSIMILAR METALS MUST BE CONNECTED IN A WATER SYS FITTINGS MAY REDUCE GALVANIC CORROSION.
- (5) FOR MAXIMUM PROTECTION OF THE CONTROLLER, IT IS RE 120 VOLT CIRCUIT IS PROVIDED.
- (6) ALLOW A MINIMUM OF 24 INCHES ABOVE FILTER FOR FILLI
- (7) TO PERMIT THE OBSERVATION OF THE DRAIN FLOW DO NO MAKE A DIRECT CONNECTION TO THE DRAIN. PROVIDE AN AIR GAP OF AT LEAST FOUR TIMES THE DIAMETER OF THE OR CONFORM TO LOCAL SANITATION CODES.
- (8) OVERALL TANK HEIGHT IS BASED ON STANDARD NON-COD ADDER FOR ASME TANKS.
- (9) ACCESS OPENINGS SHOWN ON TANK ARE FOR REFERENCE QUANTITY, TYPE AND PLACEMENT ARE DEPENDENT ON TANK

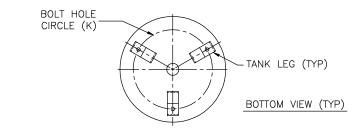
	DO NOT SCALE DRA TOLERANCES: ±1/8" UNLESS C	NOTED	Culligan® ENGINEERED SYSTEMS		
Let.	Change	Ву	Арр	Date	ENGINEERED
					NORTHBROOK, ILLINOIS
					PRINT AND BILL OF MATERIAL ARE NOT TO BE USED WITHOUT THE WRITTEN
					CONSENT OF CULLIGAN INTERNATIONAL CO.

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S RECOMMEN	EDED THAT A DED	DICATED	
FILLING. D NOT AN THE DRAIN	PIPE		
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ENCE ONLY. TANK SIZE.			
N [®]		CSM DEPTH FILTE	
<i>STEMS</i> INOIS	DETAILED BY:	CAL DATA SHEE	SHEET
AL ARE NOT WRITTEN RNATIONAL CO.	KMR 7/1/03 REF. NO.	PART NO. CSM_DUP	DEPTH

		D	IMENSION	S (INCHE	S)					UNIT [DATA PER T	ANK					
MODEL	WIDTH HEIGI A B(8		TANK DIA. D	SIDE- SHELL E	INLET/OUTLET PIPE SIZES F	DRAIN SIZE G	FLOOR TO INLET H		BOLT HOLE CIRCLE DIA. K	SUPERIOR QUALITY FLOW gpm @ DP g	HIGH QUALITY FLOW pm @ DP	UTILITY QUALITY FLOW gpm @ DP	DRAIN FLOW gpm	MIN. DRAIN PIPE SIZE IN.	ASME TANK HEIGHT ADDER (8) IN.	TRIPLEX OPER. WT. Ibs.	TRIPLEX SHIP. WT. Ibs.
CSM-201D	87 73	29	20	54	1.25	1.0	46.25	3.25	14"	22 @ 6	33 @ 12	44 @ 19	30	1.25	3	4095	3138
CSM-202D	87 73	29	20	54	2.0	1.0	47.62	4.62	14"	22 © 3	33 @ 5	44 © 8	30	1.25	3	4245	3288
CSM-242D	99 74	33	24	54	2.0	2.5	47.62	4.62	18"	32 @ 4	48 @ 8	63 @ 13	46	1.5	4	6645	4974
CSM-302D	117 85	40	30	60	2.0	3.0	47.62	4.62	24"	50 @ 6	74 @ 13	99 @ 20	76	2	4.25	10680	7242
CSM-362D	135 88		36	60	2.0	3.0	47.62	4.62	30"		107 @ 17	142 @ 27	105	2	7	16800	12090
CSM-422D	153 90		42	60	2.0	4.0	47.62	4.62	36" 36"		145 @ 22	193 @ 33	150	2.5	3	19410	15024
CSM-423D	153 90	54	42	60	3.0	4.0	49.62	6.62	30	97 @ 6		193 @ 16	150	2.5	3	19560	15174
TOP VIEW		MINERAL TANK		C				NOTE									
	Q									ITTINGS SHOWN NS ARE IN INCH					WITHOUT N	OTICE.	
INLET								. ,		LD BE LOCATED	``	,					
	┣ ━━━━━━				> FILTERED WA	TER			TO FACILITATE								
	두구' ! !	_	۲ <u>۲</u> ۱					()		DISSIMILAR MET/ TALS MUST BE						ICTIVE (DIEL	ECTRIC)
									FITTINGS MAY	REDUCE GALVA	NIC CORROS	SION.					
				7.				• • •		PROTECTION O CUIT IS PROVID		TROLLER, IT I	S RECON	MMENEDED TH	AT A DEDICA	ΓED	
		Ĥ .	ni –		-OPTIONAL FLO	V SENSOF	7	(6)	ALLOW A MINIM	MUM OF 24 INC	CHES ABOVE	FILTER FOR	FILLING.				
					-INLET (F) HEIGHT INLET O (PLUMBI HEIGHT)	PENING NG		(8)	MAKE A DIREC AIR GAP OF AT OR CONFORM	E OBSERVATION CT CONNECTION IT LEAST FOUR TO LOCAL SANI K HEIGHT IS BA' SME TANKS.	TO THE DR TIMES THE ITATION COD	AIN. PROVIDE DIAMETER OF ES.	AN THE DR		JCTION. SEE	ASME TANK	HEIGHT
	 			JTLET (F))			• • •		INGS SHOWN O							
			SE SE	E NOTE	(9) 			·	QUANTITY, TYP	E AND PLACEM	ENT ARE DE	PENDENT ON	TANK S	NZE.			
BOLT HOLE																	
BOTTOM VIEW (TYP)						TO Let.		1/8"UNL	E DRAWING ESS OTHERWISE By App		NGINE	llíga ERED SY	′STEN	15	C TRIPLEX D TECHNICAL LED BY:		
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											TO BE USED	D WITHOUT THE CULLIGAN INTER	WRITTEN	REF. NO.		PART NO. CSM_TR	I_DEPTH

	2S. CHANGE WITHOU ⁻ ECTIONS OF CON			
	MMENDED. WHER USE OF NONCO		IVE (DIELEC	TRIC)
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DRAIN F	PIPE			
e tank (CONSTRUCTION. S	ee asi	ME TANK HE	IGHT
ONLY. K SIZE.				
R	name TRIPLE>	CSN (DEF	M PTH FILTEF	ζ
EMS Is	TECHNIC		ATA SHEE pp. by:	T SHEET
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TEN DNAL CO.	NEI. NO.		CSM_TRI_	DEPTH

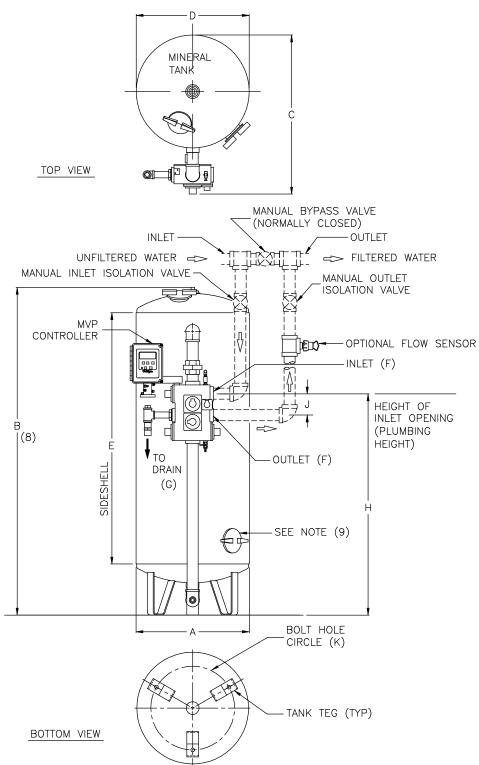
DIMENSIONS (INCHES)												UNIT	DATA PER	TANK					
											SUPERIOR	HIGH	UTILITY	DEALIN		ASME TANK	0114.5	01145	
			HEIGHT	DEPTH	TANK DIA.	SIDE- SHELL	INLET/OUTLET PIPE SIZES	SIZE	INLET		CIRCLE DIA.	QUALITY FLOW	QUALITY FLOW	QUALITY FLOW	FLOW	MIN. DRAIN PIPE SIZE	ADDER (8)	QUAD OPER. WT.	QUAD SHIP. WT.
	MODEL	A	B(8)	С	D	E	F	G	H	J	K	51	gpm @ DP	51	gpm	IN.	IN.	lbs.	lbs.
	CSM-201D	120	73	29	20	54	1.25	1.0	46.25	3.25	14"	22 @ 6		44 @ 19	30	1.25	3	5460	4184
	CSM-202D CSM-242D	120 136	73 74	29 33	20 24	54 54	2.0	1.0 2.5	47.62	4.62	14"	22 @ 3 32 @ 4	33 © 5 48 © 8	44 @ 8 63 @ 13	30 46	1.25	3	5660 8860	4384 6632
	CSM-242D CSM-302D	160	85	40	30	60	2.0	3.0	47.62	4.62	24"	50 @ 6	74 @ 13	99 @ 20	76	2	4.25	14240	9656
	CSM-362D	184	88	46	36	60	2.0	3.0	47.62	4.62	30"	71 @ 9	107 @ 17		105	2	7	22400	16120
	CSM-422D	208	90	53	42	60	2.0	4.0	47.62	4.62	36"	97 @ 11	145 @ 22		150	2.5	3	25880	20032
	CSM-423D	208	90	54	42	60	3.0	4.0	49.62	6.62	36"	97 @ 6	145 @ 11		150	2.5	3	26080	20232
D	D			- D			D									I			
				● -					C L			. ,	PIPING AND F	TTTINGS SHOW NS ARE IN ING					
UNFILTERED WATER		╶╢╴╢╾╴╴			T					OUTLET FILTERED	WATER	(3) L		OUT NOTICE. JLD BE LOCATE VALVE TO FAC			AND DRAIN	CONNECTION	٧S
MANUAL INLET ISOLATION VALVE			R									Ý	VHERE DISSIN	DISSIMILAR ME MILAR METALS UCTIVE (DIELEC	MUST BE	CONNECTED	IN A WATER	SYSTEM, T	HE USE
									ן ד []µ[⊡נ)⊸ — OF	PTIONAL F	LOW SENSOR			I PROTECTION 120 VOLT CIR			, IT IS RECOM	IMENEDED 1	ГНАТ
		36_1					Į #. ľ		י 	LET (F)		(6) A	LLOW A MINI	MUM OF 24 II	NCHES A	BOVE FILTER	FOR FILLING.		
										INLET (PLU	HT OF F OPENING MBING	N A	IAKE A DIREC IR GAP OF A	IE OBSERVATIC CT CONNECTION AT LEAST FOUF TO LOCAL SA	n to the r times "	E DRAIN. PRO THE DIAMETEI	OVIDE AN	AIN PIPE	
			f'''						TLET (F)	HEIGH	HT)	• • •		K HEIGHT IS E NK HEIGHT AD				ANK CONSTE	RUCTION.
						¤				 		()		NINGS SHOWN PE AND PLACE					
				€			€	SEE	NOTE (9)										
										¥									



	DO NOT SCALE DRAV TOLERANCES: ±1/8" UNLESS O		WISE	NOTED	Culligan ENGINEERED SYST
Let.	Change	Ву	Арр	Date	
					PRINT AND BILL OF MATERIAL AF
					TO BE USED WITHOUT THE WRI CONSENT OF CULLIGAN INTERNATI

TINGS SHOWN DASHED TO 5 ARE IN INCHES (±1 IN 7 NOTICE.				
) BE LOCATED ON INLET, LVE TO FACILITATE SERVI		AIN C	ONNECTIONS	
SSIMILAR METALS IN A PI AR METALS MUST BE CO TIVE (DIELECTRIC) FITTING	NNECTED IN A WA	TER S	SYSTEM, THE	USE
PROTECTION OF THE CON 20 VOLT CIRCUIT IS PROV		COMN	IENEDED THA	T
JM OF 24 INCHES ABOVE	FILTER FOR FILLI	NG.		
OBSERVATION OF THE DI CONNECTION TO THE DR LEAST FOUR TIMES THE D LOCAL SANITATION COD	AIN. PROVIDE AN DIAMETER OF THE		n PIPE	
HEIGHT IS BASED ON STA CHEIGHT ADDER FOR ASI		Ε ΤΑΝ	IK CONSTRUC	CTION.
GS SHOWN ON TANK ARE AND PLACEMENT ARE DE				
llígan®			TH FILTER	
RED ⁰ SYSTEMS			DATA SHEE	
ROOK, ILLINOIS	DETAILED BY: KMR 7/1/03	,	APP. BY:	SHEET 1 OF 1
L OF MATERIAL ARE NOT WITHOUT THE WRITTEN JLLIGAN INTERNATIONAL CO.	REF. NO.		art no. CSM_QUAD	DEPTH

			DIM	MENSIONS	G (INCHES	5)												
	WIDTH	HEIGHT	DEPTH	TANK DIA.	SIDE- SHELL	INLET/OUTLET PIPE SIZES	DRAIN SIZE	FLOOR TO INLET	INLET TO OUTLET	BOLT HOLE CIRCLE DIA.	SUPERIOR QUALITY FLOW	HIGH QUALITY FLOW	UTILITY QUALITY FLOW	DRAIN FLOW	MIN. DRAIN PIPE SIZE	ASME TANK HEIGHT ADDER (8)	SIMPLEX OPER. WT.	SIMPLEX SHIP. WT.
MODEL	А	B(8)	С	D	E	F	G	н	J	К	gpm @ DP	gpm @ DP	gpm @ DP	gpm	IN.	IN.	lbs.	lbs.
CSM-201R	21	73	29	20	54	1.25	1.0	46.25	3.25	14"	9 @ 1	14 @ 2	18 @ 3	20	1.25	3	960	690
CSM-242R	25	74	33	24	54	2.0	1.0	47.62	4.62	18"	13 @ 2	19 @ 3	26 @ 5	30	1.25	4	1465	1048
CSM-302R	31	85	40	30	60	2.0	2.5	47.62	4.62	24"	20 @ 3	30 @ 4	40 @ 6	46	1.25	4.25	2320	1500
CSM-362R	37	88	46	36	60	2.0	3.0	47.62	4.62	30"	29 @ 2	42 @ 4	57 @ 7	69	2	7	3745	2760
CSM-422R	43	90	53	42	60	2.0	3.0	47.62	4.62	36"	39 @ 3	58 @ 6	77 @ 9	95	2	3	4775	3180



NOTES:

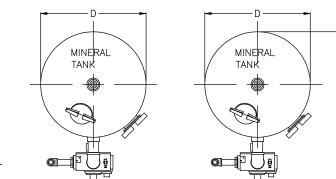
- (1) PIPING AND FITTINGS SHOWN DASHED TO BE FURNISHED BY OTHERS.
- (2) ALL DIMENSIONS ARE IN INCHES (±1 INCH) AND ARE SUBJECT TO CHANGE WITHOUT NOTICE.
- (3) UNIONS SHOULD BE LOCATED ON INLET, OUTLET, AND DRAIN CONNECTIONS OF CONTROL VALVE TO FACILITATE SERVICING.
- (4) THE USE OF DISSIMILAR METALS 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 RECOMMENEDED THAT A DEDICATED 120 VOLT CIRCUIT IS PROVIDED.
- (6) ALLOW A MINIMUM OF 24 INCHES ABOVE FILTER 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) ACCESS OPENINGS SHOWN ON TANK ARE FOR REFERENCE ONLY. QUANTITY, TYPE AND PLACEMENT ARE DEPENDENT ON TANK SIZE.

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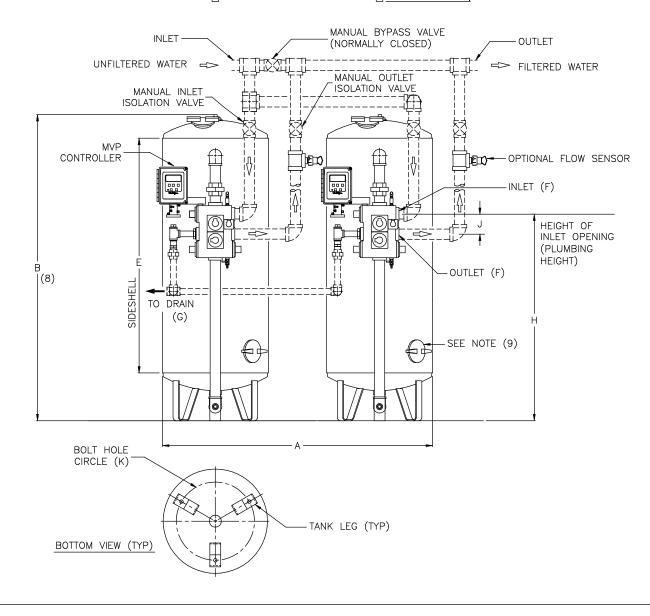
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NTTEN IONAL CO.	REF. NO.	PART NO. CSM_SIMP_	CARBON

			DI	MENSIONS	G (INCHES	5)					UNIT	DATA PER	TANK					
	WIDTH	HEIGHT	DEPTH	TANK DIA.	SIDE- SHELL	INLET/OUTLET PIPE SIZES	DRAIN SIZE			BOLT HOLE CIRCLE DIA.	SUPERIOR QUALITY FLOW	HIGH QUALITY FLOW	UTILITY QUALITY FLOW		MIN. DRAIN PIPE SIZE	ASME TANK HEIGHT ADDER (8)	DUPLEX OPER. WT.	
MODEL	A	B(8)	С	D	E	F	G	Н	J	K	gpm @ DP	gpm @ DP	gpm © DP	gpm	IN.	IN.	lbs.	lbs.
CSM-201R	54	73	29	20	54	1.25	1.0	46.25	3.25	14"	9 @ 1	14 @ 2	18 @ 3	20	1.25	3	1920	1380
CSM-242R	62	74	33	24	54	2.0	1.0	47.62	4.62	18"	13 @ 2	19 © 3	26 @ 5	30	1.25	4	2930	2096
CSM-302R	74	85	40	30	60	2.0	2.5	47.62	4.62	24"	20 © 3	30 @ 4	40 @ 6	46	1.25	4.25	4540	3000
CSM-362R	86	88	46	36	60	2.0	3.0	47.62	4.62	30"	29 @ 2	42 @ 4	57 @ 7	69	2	7	7490	5520
CSM-422R	98	90	53	42	60	2.0	3.0	47.62	4.62	36"	39 @ 3	58 @ 6	77 @ 9	95	2	3	9550	6360

Let.



TOP VIEW



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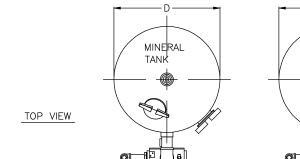
(1) PIPING AND FITTINGS SHOWN DASHED TO BE FURNISHED BY OTHERS.

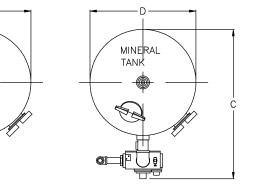
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- (5) FOR MAXIMUM PROTECTION OF THE CONTROLLER, IT IS RECOMMENEDED THAT A DEDICATED 120 VOLT CIRCUIT IS PROVIDED.
- (6) ALLOW A MINIMUM OF 24 INCHES ABOVE FILTER FOR FILLING.
- (7) TO PERMIT THE OBSERVATION OF THE DRAIN FLOW DO NOT MAKE A DIRECT CONNECTION 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) ACCESS OPENINGS SHOWN ON TANK ARE FOR REFERENCE ONLY. QUANTITY, TYPE AND PLACEMENT ARE DEPENDENT ON TANK SIZE.

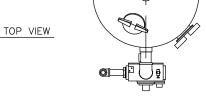
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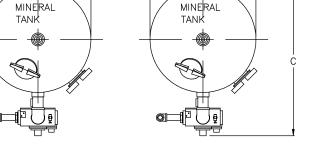
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		DIMENSIONS (INCHES)									UNIT DATA PER TANK							
MODEL	WIDTH A	HEIGHT B(8)	DEPTH C	TANK DIA. D	SIDE- SHELL E	INLET/OUTLET PIPE SIZES F	DRAIN SIZE G	FLOOR TO INLET H		BOLT HOLE CIRCLE DIA. K	SUPERIOR QUALITY FLOW gpm @ DP	QUALITY FLOW	UTILITY QUALITY FLOW gpm @ DP		MIN. DRAIN PIPE SIZE IN.		TRIPLEX OPER. WT. Ibs.	TRIPLEX SHIP. WT. Ibs.
CSM-201R	87	73	29	20	54	1.25	1.0	46.25	3.25	14"	9 @ 1	14 @ 2	18 @ 3	20	1.25	3	2880	2070
CSM-242R	99	74	33	24	54	2.0	1.0	47.62	4.62	18"	13 @ 2	19 @ 3	26 @ 5	30	1.25	4	4395	3144
CSM-302R	117	85	40	30	60	2.0	2.5	47.62	4.62	24"	20 @ 3	30 @ 4	40 @ 6	46	1.25	4.25	6960	4500
CSM-362R	135	88	46	36	60	2.0	3.0	47.62	4.62	30"	29 @ 2	42 @ 4	57 @ 7	69	2	7	11235	8280
CSM-422R	153	90	53	42	60	2.0	3.0	47.62	4.62	36"	39 @ 3	58 @ 6	77 @ 9	95	2	3	14325	9540







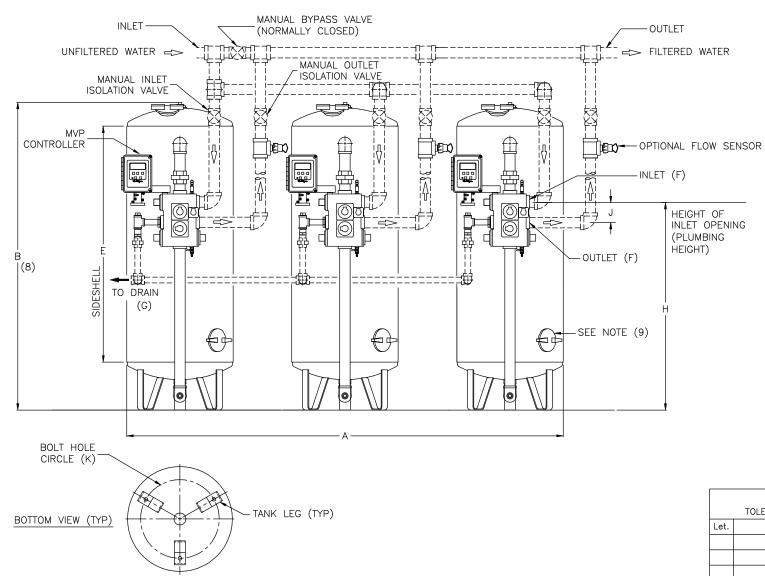




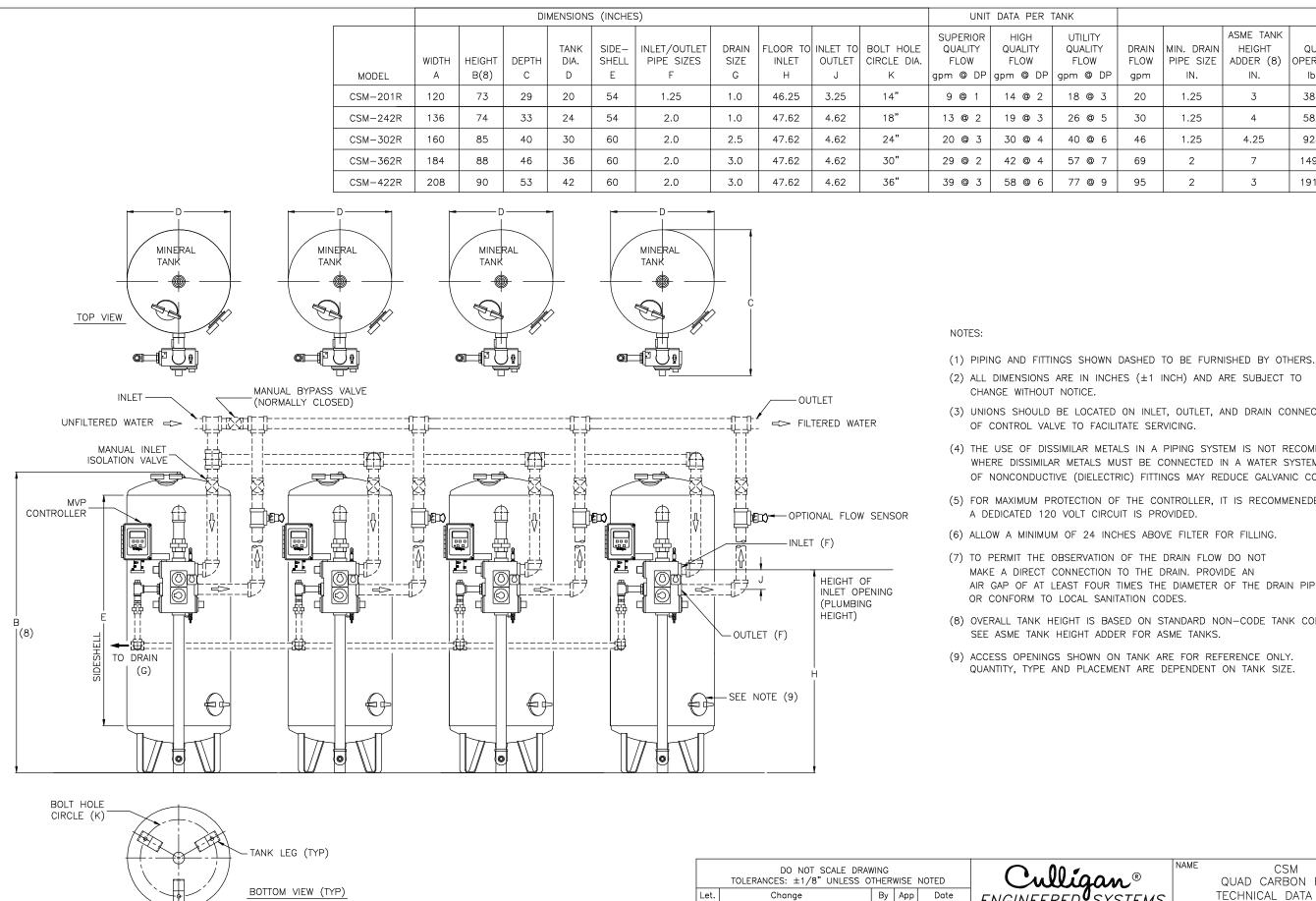
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- (1) PIPING AND FITTINGS SHOWN DASHED TO BE FURNISHED BY
- (2) ALL DIMENSIONS ARE IN INCHES (±1 INCH) AND ARE SUBJ
- (3) UNIONS SHOULD BE LOCATED ON INLET, OUTLET, AND DRAI TO FACILITATE SERVICING.
- (4) THE USE OF DISSIMILAR METALS IN A PIPING SYSTEM IS NO DISSIMILAR METALS MUST BE CONNECTED IN A WATER SYST FITTINGS MAY REDUCE GALVANIC CORROSION.
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- (9) ACCESS OPENINGS SHOWN ON TANK ARE FOR REFERENCE QUANTITY, TYPE AND PLACEMENT ARE DEPENDENT ON TANK

	DO NOT SCALE DRAV			NOTED	Culligan [®] ENGINEERED SYSTE
	TOLERANCES: ±1/8" UNLESS O	-	-		Juliyan
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					TO BE USED WITHOUT THE WRIT
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URNISHED BY OTHER ID ARE SUBJECT TO IT, AND DRAIN CONN	CHANGE WITHOUT		
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R, IT IS RECOMMENE	DED THAT A DEDI	CATED	
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LOW DO NOT ROVIDE AN 'ER OF THE DRAIN P	IPE		
) NON-CODE TANK (CONSTRUCTION. SE	e asme tank hei	GHT
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igan [®]		CSM CARBON FILTE CAL DATA SHEE	
D ⁰ SYSTEMS DK. ILLINOIS	DETAILED BY:	APP. BY:	SHEET
MATERIAL ARE NOT	KMR 7/1/03 REF. NO.	PART NO.	1 OF 1
IOUT THE WRITTEN AN INTERNATIONAL CO.		CSM_TRI_	CARBON



NOTED	Culligan® ENGINEERED SYSTEMS	NAME	QUAD (CSM Carbon filtef	2	
Date	ENGINEERED		TECHNIC	INICAL DATA SHEET		
	NORTHBROOK, ILLINOIS		AILED BY: 7/1/03	APP. BY:	SHEET 1 OF 1	
	PRINT AND BILL OF MATERIAL ARE NOT TO BE USED WITHOUT THE WRITTEN CONSENT OF CULLIGAN INTERNATIONAL CO.	REF. NO).	PART NO. CSM_QUAD_		

RAIN LOW pm	MIN. DRAIN PIPE SIZE IN.	ASME TANK HEIGHT ADDER (8) IN.	QUAD OPER. WT. Ibs.	QUAD SHIP. WT. Ibs.
20	1.25	3	3840	2760
30	1.25	4	5860	4192
46	1.25	4.25	9280	6000
69	2	7	14980	11040
95	2	3	19100	12720

- (3) UNIONS SHOULD BE LOCATED ON INLET, OUTLET, AND DRAIN CONNECTIONS
- (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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 - AIR GAP OF AT LEAST FOUR TIMES THE DIAMETER OF THE DRAIN PIPE
- (8) OVERALL TANK HEIGHT IS BASED ON STANDARD NON-CODE TANK CONSTRUCTION.