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.

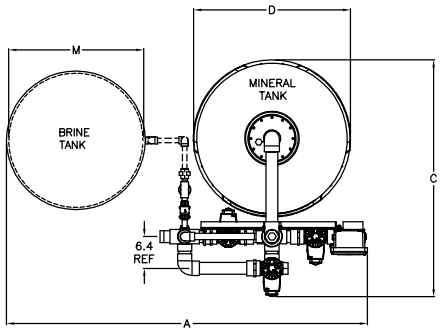
(8) OVERALL TANK HEIGHT IS BASED ON STANDARD NON-CODE TANK CONSTRUCTION. SEE ASME TANK HEIGHT ADDER FOR ASME TANKS.

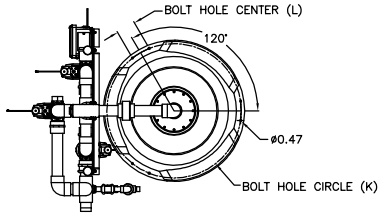
(9) WHEN USING A WATER METER, THERE MUST BE A MINIMUM AMOUNT OF STRAIGHT PIPE BEFORE AND AFTER THE SENSOR. REFER TO THE INSTALLATION INSTRUCTIONS FOR DETAILS.

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

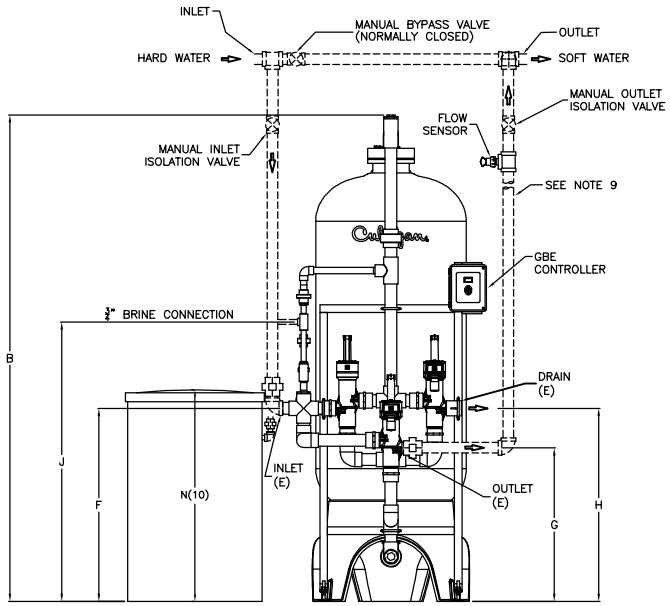
(11) SYSTEM USES FRP TANKS WHICH MUST NOT BE SUBJECTED TO VACUUM. INSTALL SIPHON BREAK ON DRAIN LINE. INSTALL VACUUM BREAKER ON INLET PIPING IF THE SERVICE LINE IS SUBJECT TO A VACCUM.

	DIMENSIONS (INCHES)												UNIT DATA (PER TANK)						
MODEL	WIDTH A	HEIGHT B	DEPTH C	TANK DIA. D	INLET/OUTLET & DRAIN PIPE SIZES E	FLOOR TO INLET F	FLOOR TO OUTLET G	FLOOR TO DRAIN H	FLOOR TO BRINE CONNECTION J	BOLT HOLE CIRCLE DIA. K	BOLT HOLE CENTERS L	BRINE TANK DIA. M	BRINE TANK HEIGHT N	MAX. CAPACITY KGR @ SALT DOSAGE	RESIN VOLUME ft^3	CONTINUOUS FLOW gpm @ 15 psi drop	PEAK FLOW gpm @ 25 psi drop	DRAIN FLOW gpm	SINGLE OPER. WT. W/ SUGGESTED BRINE TANK lbs.	SINGLE SHIP. WT. WITHOUT BRINE TANK lbs.
HFxN 150-2 FRP	65	90.7	38.2	21	2.0	38.5	30.5	38.5	56	20.25	4.3	24	50	150 @ 75	5	74	108	10	2111	642
HFxN 210-2 FRP	68	97.3	39.8	24	2.0	38.5	30.5	38.5	56	23.1	4.3	24	50	210 @ 108	7	84	119	13.5	2452	842
HFxN 300-2 FRP	77	97.7	47.1	30	2.0	38.5	30.5	38.5	56	30	4.3	30	50	300 @ 150	10	93	129	20	3761	1200
HFxN 450-2 FRP	77	97.7	47.1	30	2.0	38.5	30.5	38.5	56	30	4.3	30	50	450 @ 228	15	88	122	20	3834	1460
HFxN 600-2 FRP	94	99.2	54.9	36	2.0	38.5	30.5	38.5	56	37.75	4.6	39	48	600 @ 306	20	104	144	30	5617	1911
HFxN 750-2 FRP	102	98.9	59.9	42	2.0	38.5	30.5	38.5	56	41.38	4.3	42	48	750 @ 378	25	108	148	45	7506	2583
HFxN 900-2 FRP	102	98.9	59.9	42	2.0	38.5	30.5	38.5	56	41.38	4.3	42	48	900 @ 450	30	107	146	45	7583	2843





BOTTOM VIEW



SINGLE INSTALLATION

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

Culligan® ENGINEERED SYSTEMS
ROSEMONT, ILLINOIS

NAME HFxN FRP SINGLE WATER SOFTENER SYSTEM TECHNICAL DATA SHEET

DETAILED BY:	APP. BY:	SHEET
MKM 10/06/11		1 OF 1
REF. NO.	PART NO.	
	HFxN_FRP_SFT_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) 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.

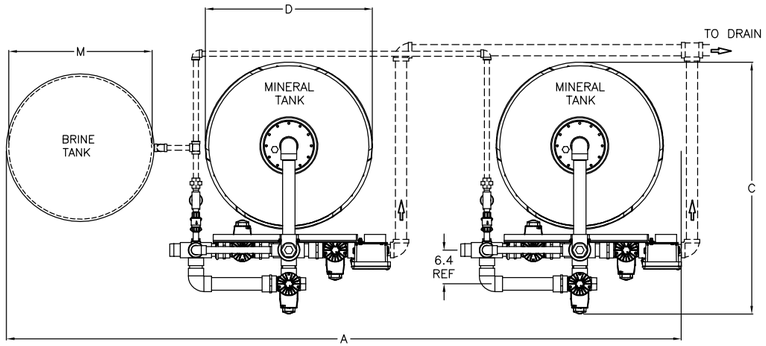
(9) WHEN USING A WATER METER, THERE MUST BE A MINIMUM AMOUNT OF STRAIGHT PIPE BEFORE AND AFTER THE SENSOR. REFER TO THE INSTALLATION INSTRUCTIONS FOR DETAILS.

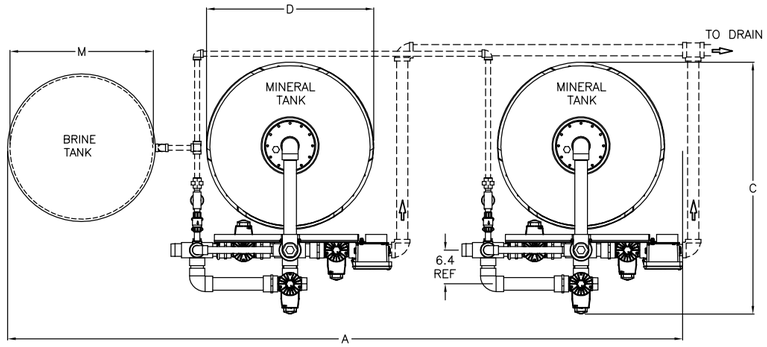
(10) BRINE TANK DIMENSIONS SHOWN ARE FOR THE BRINE TANK MOST COMMONLY SELECTED FOR USE WITH THIS SIZE SYSTEM.

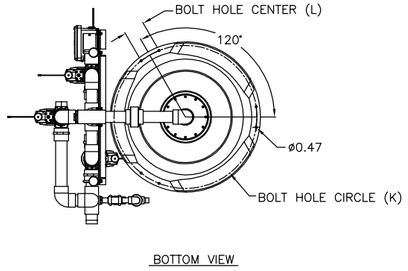
(11) SYSTEM USES FRP TANKS WHICH MUST NOT BE SUBJECTED TO VACUUM. INSTALL SIPHON BREAK ON DRAIN LINE. INSTALL VACUUM BREAKER ON INLET PIPING IF THE SERVICE LINE IS SUBJECT TO A VACCUM.

(12) REQUIRED ONLY FOR EXTERNAL BLOCKING FLOW APPLICATIONS.

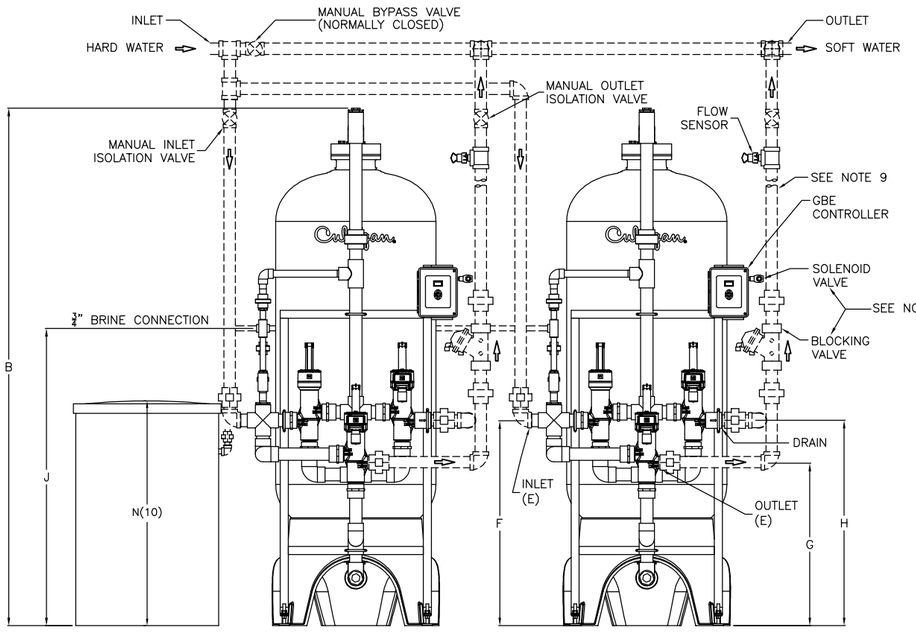
MODEL	DIMENSIONS (INCHES) WIDTH A	HEIGHT B	DEPTH C	TANK DIA. D	INLET/OUTLET & DRAIN PIPE SIZES E	FLOOR TO INLET F	FLOOR TO OUTLET G	FLOOR TO DRAIN H	FLOOR TO BRINE CONNECTION J	BOLT HOLE CIRCLE DIA. K	BOLT HOLE CENTERS L	BRINE TANK DIA. M	BRINE TANK HEIGHT N	UNIT DATA (PER TANK) MAX. CAPACITY KGR @ SALT DOSAGE	RESIN VOLUME ft^3	CONTINUOUS FLOW gpm @ 15 psi drop	PEAK FLOW gpm @ 25 psi drop	DRAIN FLOW gpm	DUPLEX OPER. WT. W/ SUGGESTED BRINE TANK lbs.	DUPLEX SHIP. WT. WITHOUT BRINE TANK lbs.
HFxN 150-2 FRP	115	90.7	38.2	21	2.0	38.5	30.5	38.5	56	20.25	4.3	24	50	150 @ 75	5	74	108	10	3243	1285
HFxN 210-2 FRP	120	97.3	39.8	24	2.0	38.5	30.5	38.5	56	23.1	4.3	24	50	210 @ 108	7	84	119	13.5	3978	1684
HFxN 300-2 FRP	135	97.7	47.1	30	2.0	38.5	30.5	38.5	56	30	4.3	30	50	300 @ 150	10	93	129	20	6046	2399
HFxN 450-2 FRP	135	97.7	47.1	30	2.0	38.5	30.5	38.5	56	30	4.3	30	50	450 @ 228	15	88	122	20	6193	2920
HFxN 600-2 FRP	147	99.2	54.9	36	2.0	38.5	30.5	38.5	56	37.75	4.6	39	48	600 @ 306	20	104	144	30	8899	3820
HFxN 750-2 FRP	155	98.9	59.9	42	2.0	38.5	30.5	38.5	56	41.38	4.3	42	48	750 @ 378	25	108	148	45	11846	5166
HFxN 900-2 FRP	155	98.9	59.9	42	2.0	38.5	30.5	38.5	56	41.38	4.3	42	48	900 @ 450	30	107	146	45	12000	5686



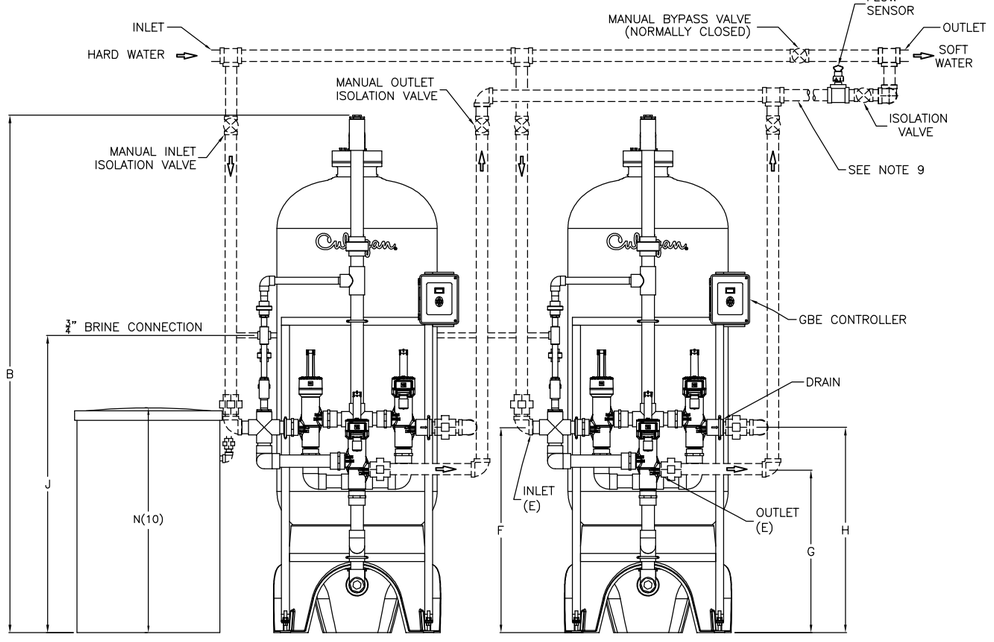




BOTTOM VIEW



DUPLEX PROGRESSIVE FLOW INSTALLATION



DUPLEX ALTERNATING INSTALLATION

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

Culligan® ENGINEERED SYSTEMS
ROSEMONT, ILLINOIS

NAME HFxN FRP DUPLEX WATER SOFTENER SYSTEM TECHNICAL DATA SHEET

DETAILED BY:	APP. BY:	SHEET
MKM 10/06/11		1 OF 1

REF. NO.

PART NO. HFxN_FRP_SFT_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) 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.

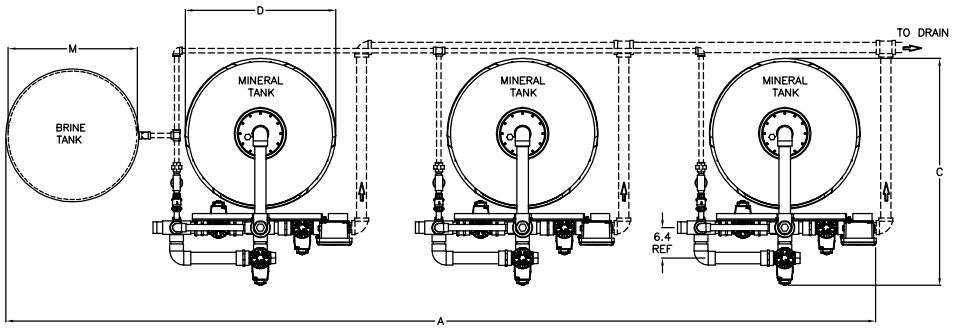
(9) WHEN USING A WATER METER, THERE MUST BE A MINIMUM AMOUNT OF STRAIGHT PIPE BEFORE AND AFTER THE SENSOR. REFER TO THE INSTALLATION INSTRUCTIONS FOR DETAILS.

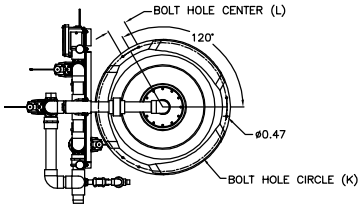
(10) BRINE TANK DIMENSIONS SHOWN ARE FOR THE BRINE TANK MOST COMMONLY SELECTED FOR USE WITH THIS SIZE SYSTEM.

(11) 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.

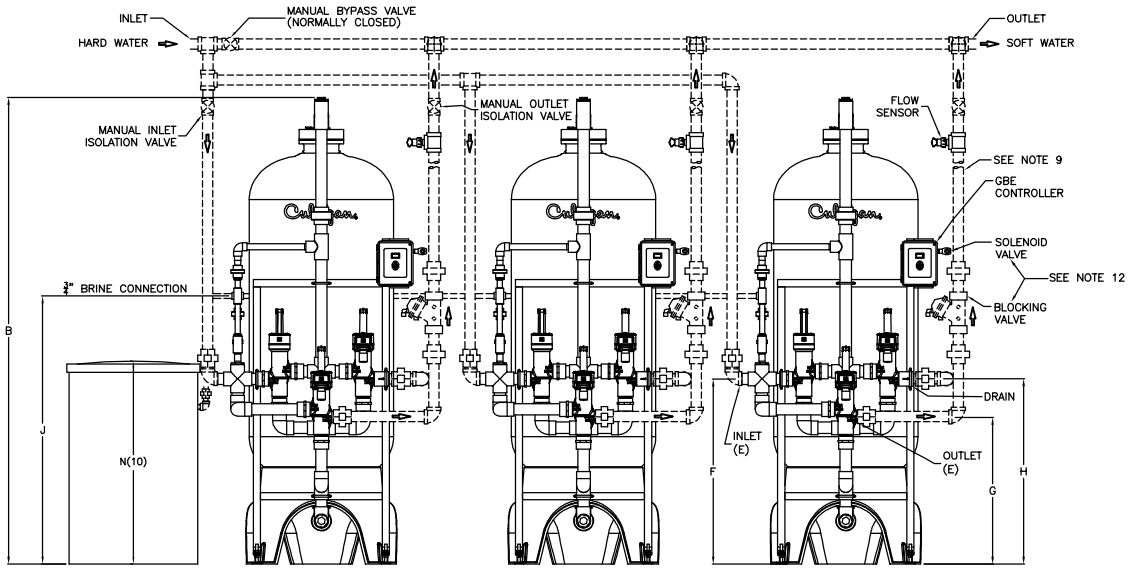
(12) REQUIRED ONLY FOR EXTERNAL BLOCKING FLOW APPLICATIONS.

	DIMENSIONS (INCHES)													UNIT DATA (PER TANK)						
MODEL	WIDTH A	HEIGHT B	DEPTH C	TANK DIA. D	INLET/OUTLET & DRAIN PIPE SIZES E	FLOOR TO INLET F	FLOOR TO OUTLET G	FLOOR TO DRAIN H	FLOOR TO BRINE CONNECTION J	BOLT HOLE CIRCLE DIA. K	BOLT HOLE CENTERS L	BRINE TANK DIA. M	BRINE TANK HEIGHT N	MAX. CAPACITY KGR @ SALT DOSAGE	RESIN VOLUME ft^3	CONTINUOUS FLOW gpm @ 15 psi drop	PEAK FLOW gpm @ 25 psi drop	DRAIN FLOW gpm	TRIPLEX OPER. WT. W/ SUGGESTED BRINE TANK lbs.	TRIPLEX SHIP. WT. WITHOUT BRINE TANK lbs.
HFxN 150-2 FRP	164	90.7	38.2	21	2.0	38.5	30.5	38.5	56	20.25	4.3	24	50	150 @ 75	5	74	108	10	4346	1927
HFxN 210-2 FRP	171	97.3	39.8	24	2.0	38.5	30.5	38.5	56	23.1	4.3	24	50	210 @ 108	7	84	119	13.5	5448	5626
HFxN 300-2 FRP	192	97.7	47.1	30	2.0	38.5	30.5	38.5	56	30	4.3	30	50	300 @ 150	10	93	129	20	8253	3599
HFxN 450-2 FRP	192	97.7	47.1	30	2.0	38.5	30.5	38.5	56	30	4.3	30	50	450 @ 228	15	88	122	20	8473	4380
HFxN 600-2 FRP	205	99.2	54.9	36	2.0	38.5	30.5	38.5	56	37.75	4.6	39	48	600 @ 306	20	104	144	30	12083	5732
HFxN 750-2 FRP	212	98.9	59.9	42	2.0	38.5	30.5	38.5	56	41.38	4.3	42	48	750 @ 378	25	108	148	45	16055	7749
HFxN 900-2 FRP	212	98.9	59.9	42	2.0	38.5	30.5	38.5	56	41.38	4.3	42	48	900 @ 450	30	107	146	45	16285	8529





BOTTOM VIEW



TRIPLEX PROGRESSIVE FLOW INSTALLATION

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

Let.	Change	By	App	Date

Culligan® ENGINEERED SYSTEMS
ROSEMONT, ILLINOIS

NAME: HFxN FRP TRIPLEX WATER SOFTENER SYSTEM TECHNICAL DATA SHEET

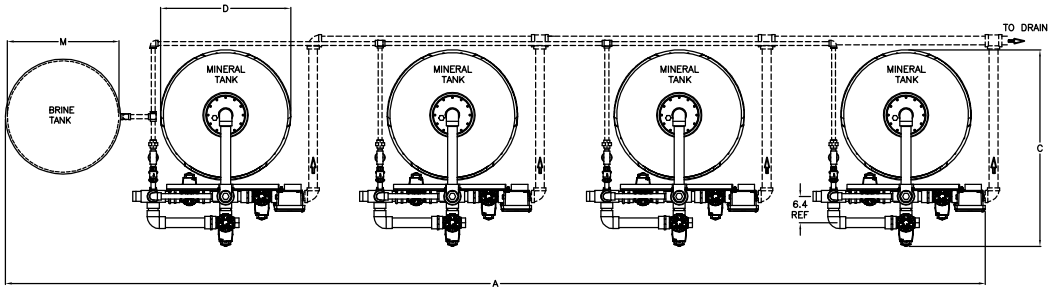
DETAILED BY:	APP. BY:	SHEET
MKM 10/06/11		1 OF 1

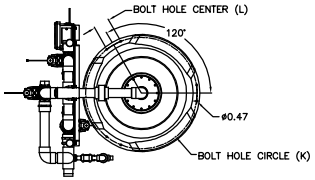
REF. NO.

PART NO. HFxN_FRP_SFT_3

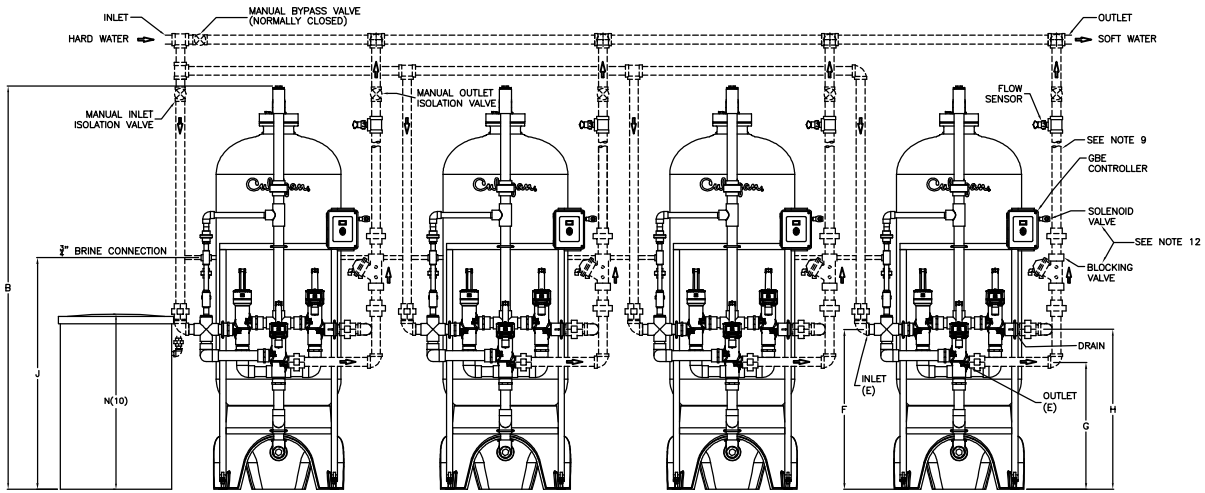
NOTES:
(1) ITEMS SHOWN IN BROKEN LINES TO BE FURNISHED BY OTHERS.
(2) ALL DIMENSIONS ARE ± 1 INCH (25mm) AND SUBJECT TO CHANGE WITHOUT NOTICE.
(3) UNIONS SHOULD BE LOCATED ON INLET AND OUTLET CONNECTIONS OF CONTROL VALVE TO FACILITATE SERVICING.
(4) THE USE OF DISSIMILAR METALS IN A PIPING SYSTEM IS 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) 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.
(12) REQUIRED ONLY FOR EXTERNAL BLOCKING FLOW APPLICATIONS.

	DIMENSIONS (INCHES)													UNIT DATA (PER TANK)						
MODEL	WIDTH A	HEIGHT B	DEPTH C	TANK DIA. D	INLET/OUTLET & DRAIN PIPE SIZES E	FLOOR TO INLET F	FLOOR TO OUTLET G	FLOOR TO DRAIN H	FLOOR TO BRINE CONNECTION J	BOLT HOLE CIRCLE DIA. K	BOLT HOLE CENTERS L	BRINE TANK DIA. M	BRINE TANK HEIGHT N	MAX. CAPACITY KGR @ SALT DOSAGE	RESIN VOLUME ft^3	CONTINUOUS FLOW gpm @ 15 psi drop	PEAK FLOW gpm @ 25 psi drop	DRAIN FLOW gpm	QUAD OPER. WT. W/ SUGGESTED BRINE TANK lbs.	QUAD SHIP. WT. WITHOUT BRINE TANK lbs.
HFxN 150-2 FRP	214	90.7	38.2	21	2.0	38.5	30.5	38.5	56	20.25	4.3	24	50	150 @ 75	5	74	108	10	5449	2569
HFxN 210-2 FRP	223	97.3	39.8	24	2.0	38.5	30.5	38.5	56	23.1	4.3	24	50	210 @ 108	7	84	119	13.5	6918	3368
HFxN 300-2 FRP	260	97.7	47.1	30	2.0	38.5	30.5	38.5	56	30	4.3	30	50	300 @ 150	10	93	129	20	10460	4798
HFxN 450-2 FRP	260	97.7	47.1	30	2.0	38.5	30.5	38.5	56	30	4.3	30	50	450 @ 228	15	88	122	20	10753	5838
HFxN 600-2 FRP	262	99.2	54.9	36	2.0	38.5	30.5	38.5	56	37.75	4.6	39	48	600 @ 306	20	104	144	30	15267	7643
HFxN 750-2 FRP	269	98.9	59.9	42	2.0	38.5	30.5	38.5	56	41.38	4.3	42	48	750 @ 378	25	108	148	45	20265	10332
HFxN 900-2 FRP	269	98.9	59.9	42	2.0	38.5	30.5	38.5	56	41.38	4.3	42	48	900 @ 450	30	107	146	45	20571	11372





BOTTOM VIEW



QUAD PROGRESSIVE FLOW INSTALLATION

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

Culligan® ENGINEERED SYSTEMS
ROSEMONT, ILLINOIS

NAME: HFxN FRP QUAD WATER SOFTENER SYSTEM TECHNICAL DATA SHEET

DETAILED BY:	APP. BY:	SHEET
MKM 10/06/11		1 OF 1
REF. NO.		PART NO. HFxN_FRP_SFT_4

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.

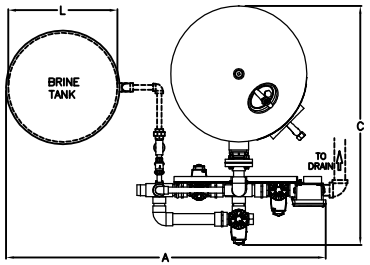
(8) OVERALL TANK HEIGHT IS BASED ON STANDARD NON-CODE TANK CONSTRUCTION. SEE ASME TANK HEIGHT ADDER FOR ASME TANKS.

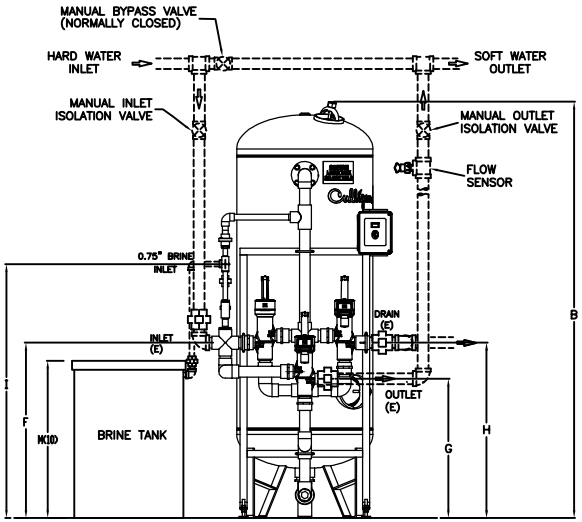
(9) WHEN USING A WATER METER, THERE MUST BE A MINIMUM AMOUNT OF STRAIGHT PIPE BEFORE AND AFTER THE SENSOR. REFER TO THE INSTALLATION INSTRUCTIONS FOR DETAILS.

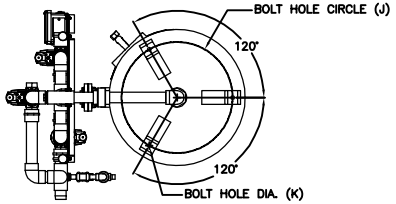
(10) BRINE TANK DIMENSIONS SHOWN ARE FOR THE BRINE TANK MOST COMMONLY SELECTED FOR USE WITH THIS SIZE SYSTEM.

(11) ACCESS OPENINGS SHOWN ON TANK ARE FOR REFERENCE ONLY. QUANTITY, TYPE AND PLACEMENT ARE DEPENDENT ON TANK SIZE.

	DIMENSIONS (INCHES)												UNIT DATA (PER TANK)						
MODEL	WIDTH A	HEIGHT B	DEPTH C	TANK DIA. D	INLET/OUTLET & DRAIN PIPE SIZES E	FLOOR TO INLET F	FLOOR TO OUTLET G	FLOOR TO DRAIN H	FLOOR TO BRINE I	BOLT HOLE CIRCLE DIA. J	BOLT HOLE DIA. K	BRINE TANK DIA. L	BRINE TANK HEIGHT M	MAX. CAPACITY Kgr @ SALT DOSAGE	RESIN VOLUME ft^3	CONTINUOUS FLOW gpm @ 15 psi drop	PEAK FLOW gpm @ 25 psi drop	DRAIN FLOW gpm	UNIT OPER. WT. lbs.	UNIT SHIP. WT. lbs.
HFxN 150 CD	66	75.7	41.2	20	2.0	38.6	30.7	38.6	56	14.5	0.813	24	50	150 @ 75	5	74	108	10	2092	719
HFxN 210 CD	68	77.8	45.2	24	2.0	38.6	30.7	38.6	56	18.5	0.813	24	50	210 @ 108	7	84	119	15	2585	1022
HFxN 300 CD	77	91.8	52.6?	30	2.0	38.6	30.7	38.6	56	24.5	0.813	30	50	300 @ 150	10	93	129	20	4337	1647
HFxN 450 CD	77	91.8	52.6	30	2.0	38.6	30.7	38.6	56	24.5	0.813	30	50	450 @ 228	15	88	122	20	4410	1907
HFxN 600 CD	86	97.8	58.6	36	2.0	38.6	30.7	38.6	56	30	0.813	39	48	600 @ 306	20	104	144	30	6495	2475
HFxN 750 CD	94	100.9	64.1	42	2.0	38.6	30.7	38.6	56	36	0.813	42	48	750 @ 378	25	108	148	45	8818	3159
HFxN 900 CD	94	100.9	64.1	42	2.0	38.6	30.7	38.6	56	36	0.813	42	48	900 @ 450	30	107	146	45	8887	3419







BOTTOM VIEW
TANK MOUNTING HOLE PATTERN

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

Let.	Change	By	App	Date

Culligan® ENGINEERED SYSTEMS
ROSEMONT, ILLINOIS

NAME: HFxN CD SINGLE WATER SOFTENER SYSTEM TECHNICAL DATA SHEET

DETAILED BY:	APP. BY:	SHEET
BBV 10/06/11		1 OF 1

REF. NO.

PART NO. HFxN_SFT_CD_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) 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.

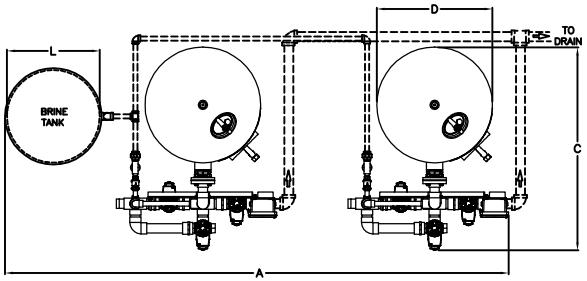
(9) WHEN USING A WATER METER, THERE MUST BE A MINIMUM AMOUNT OF STRAIGHT PIPE BEFORE AND AFTER THE SENSOR. REFER TO THE INSTALLATION INSTRUCTIONS FOR DETAILS.

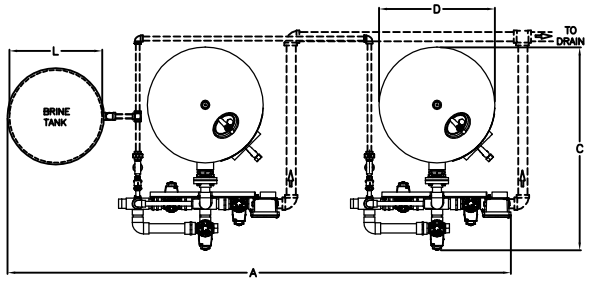
(10) BRINE TANK DIMENSIONS SHOWN ARE FOR THE BRINE TANK MOST COMMONLY SELECTED FOR USE WITH THIS SIZE SYSTEM.

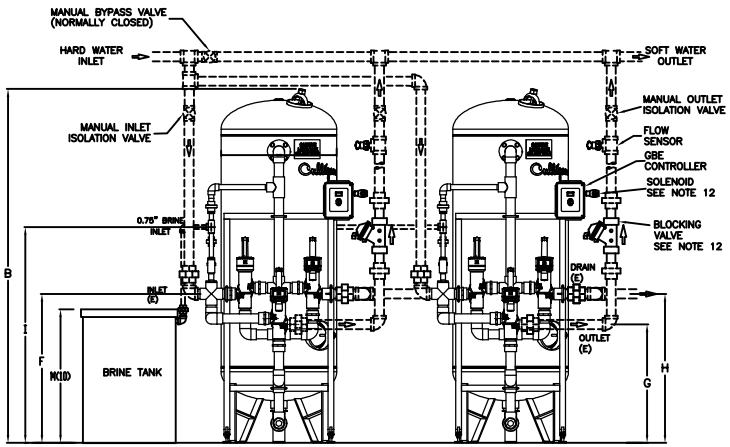
(11) ACCESS OPENINGS SHOWN ON TANK ARE FOR REFERENCE ONLY. QUANTITY, TYPE AND PLACEMENT ARE DEPENDENT ON TANK SIZE.

(12) REQUIRED ONLY FOR EXTERNAL BLOCKING FLOW APPLICATION.

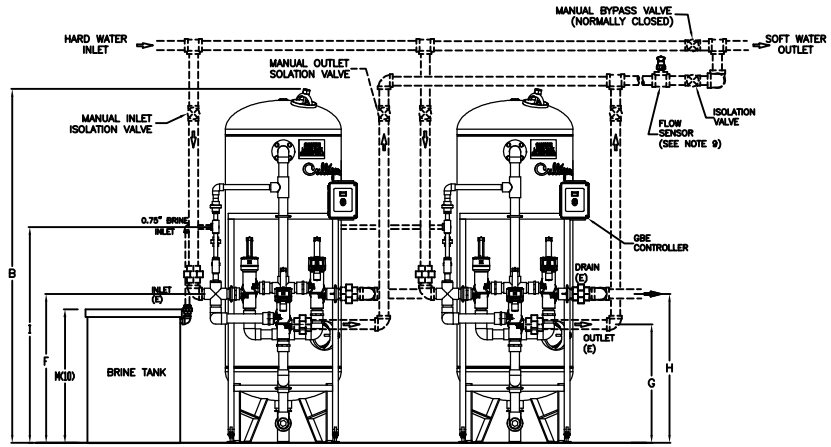
	DIMENSIONS (INCHES)													UNIT DATA (PER TANK)						
MODEL	WIDTH A	HEIGHT B	DEPTH C	TANK DIA. D	INLET/OUTLET & DRAIN PIPE SIZES E	FLOOR TO INLET F	FLOOR TO OUTLET G	FLOOR TO DRAIN H	FLOOR TO BRINE I	BOLT HOLE CIRCLE DIA. J	BOLT HOLE DIA. K	BRINE TANK DIA. L	BRINE TANK HEIGHT M	MAX. CAPACITY Kgr @ SALT DOSAGE	RESIN VOLUME ft^3	CONTINUOUS FLOW gpm @ 15 psi drop	PEAK FLOW gpm @ 25 psi drop	DRAIN FLOW gpm	DUPLEX OPER. WT. lbs.	DUPLEX SHIP. WT. lbs.
HFxN 150 CD	112	75.7	41.2	20	2.0	38.6	30.7	38.6	56	14.5	0.813	24	50	150 @ 75	5	74	108	10	3205	1338
HFxN 210 CD	119	77.8	45.2	24	2.0	38.6	30.7	38.6	56	18.5	0.813	24	50	210 @ 108	7	84	119	15	4243	1944
HFxN 300 CD	134	91.8	52.6?	30	2.0	38.6	30.7	38.6	56	24.5	0.813	30	50	300 @ 150	10	93	129	20	7199	3144
HFxN 450 CD	134	91.8	52.6	30	2.0	38.6	30.7	38.6	56	24.5	0.813	30	50	450 @ 228	15	88	122	20	7345	3664
HFxN 600 CD	152	97.8	58.6	36	2.0	38.6	30.7	38.6	56	30	0.813	39	48	600 @ 306	20	104	144	30	10655	4770
HFxN 750 CD	166	100.9	64.1	42	2.0	38.6	30.7	38.6	56	36	0.813	42	48	750 @ 378	25	108	148	45	14468	6118
HFxN 900 CD	166	100.9	64.1	42	2.0	38.6	30.7	38.6	56	36	0.813	42	48	900 @ 450	30	107	146	45	14607	6638



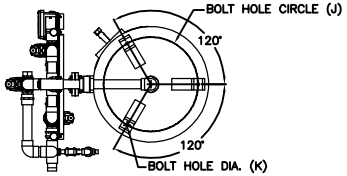




DUPLEX PROGRESSIVE INSTALATION



TWIN ALTERNATING INSTALATION



BOTTOM VIEW
TANK MOUNTING HOLE PATTERN

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

Culligan® ENGINEERED SYSTEMS
ROSEMONT, ILLINOIS

NAME: HFxN CD DUPLEX WATER SOFTENER SYSTEM TECHNICAL DATA SHEET

DETAILED BY:	APP. BY:	SHEET
BBV 10/06/11		1 OF 1
REF. NO.	PART NO.	
	HFxN_SFT_CD_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) 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.

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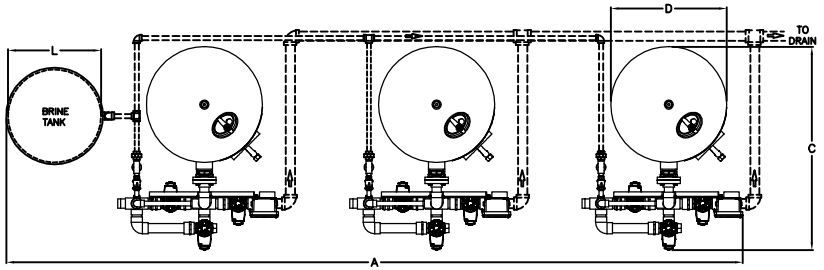
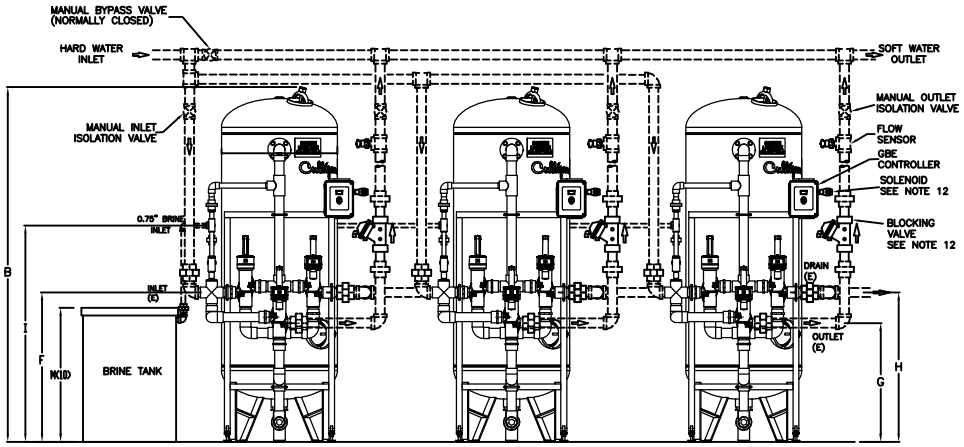
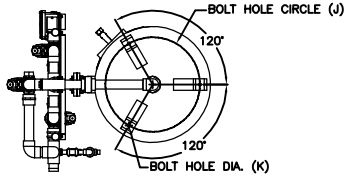
(12) REQUIRED ONLY FOR EXTERNAL BLOCKING FLOW APPLICATION.

	DIMENSIONS (INCHES)													UNIT DATA (PER TANK)						
MODEL	WIDTH A	HEIGHT B	DEPTH C	TANK DIA. D	INLET/OUTLET & DRAIN PIPE SIZES E	FLOOR TO INLET F	FLOOR TO OUTLET G	FLOOR TO DRAIN H	FLOOR TO BRINE I	BOLT HOLE CIRCLE DIA. J	BOLT HOLE DIA. K	BRINE TANK DIA. L	BRINE TANK HEIGHT M	MAX. CAPACITY Kgr @ SALT DOSAGE	RESIN VOLUME ft^3	CONTINUOUS FLOW gpm @ 15 psi drop	PEAK FLOW gpm @ 25 psi drop	DRAIN FLOW gpm	TRIPLEX OPER. WT. lbs.	TRIPLEX SHIP. WT. lbs.
HFxN 150 CD	160	75.7	41.2	20	2.0	38.6	30.7	38.6	56	14.5	0.813	24	50	150 @ 75	5	74	108	10	4289	1957
HFxN 210 CD	170	77.8	45.2	24	2.0	38.6	30.7	38.6	56	18.5	0.813	24	50	210 @ 108	7	84	119	15	5846	2866
HFxN 300 CD	191	91.8	52.6?	30	2.0	38.6	30.7	38.6	56	24.5	0.813	30	50	300 @ 150	10	93	129	20	9981	4641
HFxN 450 CD	191	91.8	52.6	30	2.0	38.6	30.7	38.6	56	24.5	0.813	30	50	450 @ 228	15	88	122	20	10201	5421
HFxN 600 CD	215	97.8	58.6	36	2.0	38.6	30.7	38.6	56	30	0.813	39	48	600 @ 306	20	104	144	30	14716	7065
HFxN 750 CD	234	100.9	64.1	42	2.0	38.6	30.7	38.6	56	36	0.813	42	48	750 @ 378	25	108	148	45	19989	9077
HFxN 900 CD	234	100.9	64.1	42	2.0	38.6	30.7	38.6	56	36	0.813	42	48	900 @ 450	30	107	146	45	20198	9857





TRIPLEX PROGRESSIVE NSTALATION



BOTTOM VIEW
TANK MOUNTING HOLE PATTERN

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

Culligan® ENGINEERED SYSTEMS
ROSEMONT, ILLINOIS

NAME: HFxN CD TRIPLEX WATER SOFTENER SYSTEM TECHNICAL DATA SHEET

DETAILED BY:	APP. BY:	SHEET
BBV 10/06/11		1 OF 1
REF. NO.	PART NO.	
	HFxN_SFT_CD_3	

NOTES:

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

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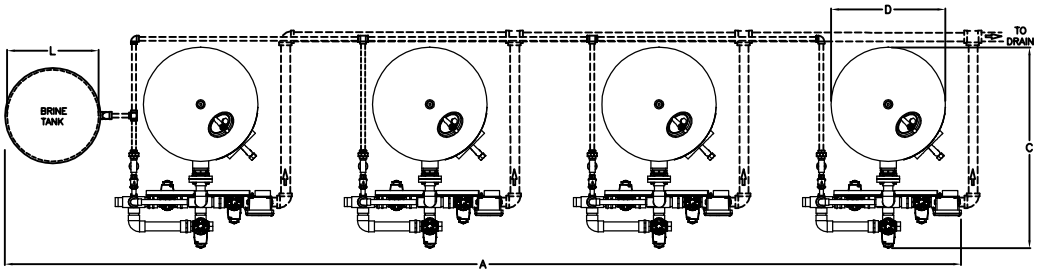
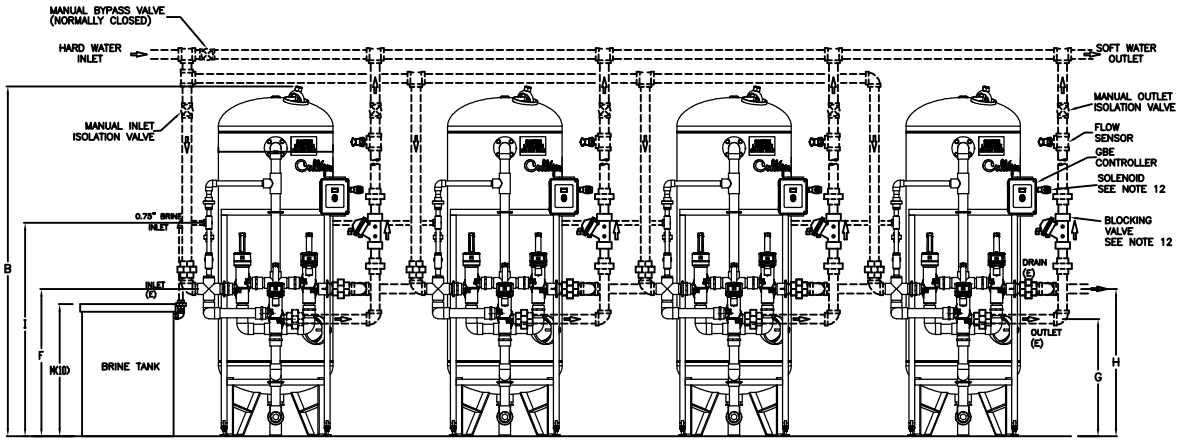
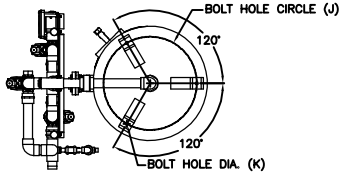
(12) REQUIRED ONLY FOR EXTERNAL BLOCKING FLOW APPLICATION.

	DIMENSIONS (INCHES)													UNIT DATA (PER TANK)						
MODEL	WIDTH A	HEIGHT B	DEPTH C	TANK DIA. D	INLET/OUTLET & DRAIN PIPE SIZES E	FLOOR TO INLET F	FLOOR TO OUTLET G	FLOOR TO DRAIN H	FLOOR TO BRINE I	BOLT HOLE CIRCLE DIA. J	BOLT HOLE DIA. K	BRINE TANK DIA. L	BRINE TANK HEIGHT M	MAX. CAPACITY Kgr @ SALT DOSAGE	RESIN VOLUME ft^3	CONTINUOUS FLOW gpm @ 15 psi drop	PEAK FLOW gpm @ 25 psi drop	DRAIN FLOW gpm	QUAD OPER. WT. lbs.	QUAD SHIP. WT. lbs.
HFxN 150 CD	208	75.7	41.2	20	2.0	38.6	30.7	38.6	56	14.5	0.813	24	50	150 @ 75	5	74	108	10	5373	2576
HFxN 210 CD	222	77.8	45.2	24	2.0	38.6	30.7	38.6	56	18.5	0.813	24	50	210 @ 108	7	84	119	15	7449	3788
HFxN 300 CD	249	91.8	52.6?	30	2.0	38.6	30.7	38.6	56	24.5	0.813	30	50	300 @ 150	10	93	129	20	12764	6138
HFxN 450 CD	249	91.8	52.6	30	2.0	38.6	30.7	38.6	56	24.5	0.813	30	50	450 @ 228	15	88	122	20	13057	7178
HFxN 600 CD	279	97.8	58.6	36	2.0	38.6	30.7	38.6	56	30	0.813	39	48	600 @ 306	20	104	144	30	18778	9360
HFxN 750 CD	305	100.9	64.1	42	2.0	38.6	30.7	38.6	56	36	0.813	42	48	750 @ 378	25	108	148	45	25509	12036
HFxN 900 CD	305	100.9	64.1	42	2.0	38.6	30.7	38.6	56	36	0.813	42	48	900 @ 450	30	107	146	45	25788	13076





QUAD PROGRESSIVE INSTALATION



BOTTOM VIEW
TANK MOUNTING HOLE PATTERN

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

Culligan® ENGINEERED SYSTEMS
ROSEMONT, ILLINOIS

NAME HFxN CD QUAD WATER SOFTENER SYSTEM TECHNICAL DATA SHEET

DETAILED BY:	APP. BY:	SHEET
BBV 10/06/11		1 OF 1

REF. NO.

PART NO. HFxN_SFT_CD_4