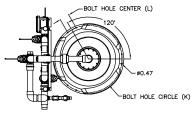
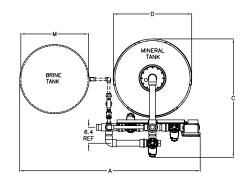
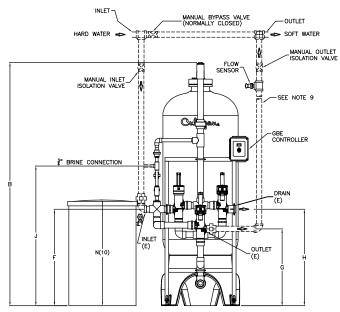
- (1) ITEMS SHOWN IN BROKEN LINES TO BE FURNISHED BY OTHERS.
- (2) ALL DIMENSIONS ARE ± 1 INCH (25mm) AND SUBJECT TO CHANGE WITHOUT NOTICE.
- (3) UNIONS SHOULD BE LOCATED ON INLET AND OUTLET CONNECTIONS OF CONTROL VALVE TO FACILITATE SERVICING.
- (4) THE USE OF DISSIMILAR METALS IN A PIPING SYSTEM IS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



BOTTOM VIEW

						DI	IMENSIONS	(INCHES)						UNI	T DATA (	PER TANK)				
MODEL	WIDTH A	HEIGHT B		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		TANK	BRINE TANK HEIGHT N	MAX. CAPACITY KGR @ SALT DOSAGE	RESIN	CONTINUOUS FLOW gpm <b>©</b> 15 psi drop	FLOW	DRAIN FLOW gpm	SINGLE OPER. WT. W/ SUGGESTED BRINE TANK Ibs.	SINGLE SHIP. WT. WITHOUT BRINE TANK Ibs.
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 <b>©</b> 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 <b>©</b> 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 <b>©</b> 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 <b>©</b> 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





# SINGLE INSTALLATION

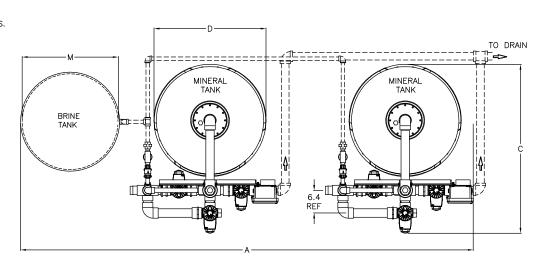
	DO NOT SCALE DRAW TOLERANCES: ±1/8" UNLESS O		NISE	NOTED	Culigan® ENGINEERED SYSTEMS
Let.	Change	Ву	App	Date	ENGINEERED SYSTEMS
					ROSEMONT, ILLINOIS
					PRINT AND BILL OF MATERIAL ARE NOT
					TO BE USED WITHOUT THE WRITTEN
					CONSENT OF CULLIGAN INTERNATIONAL CO.

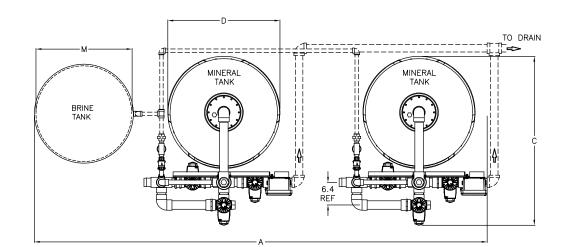
HFxN FRP SINGLE WATER SOFTENER SYSTEM TECHNICAL DATA SHEET DETAILED BY: SHEET MKM 10/06/11 1 OF 1 REF. NO.

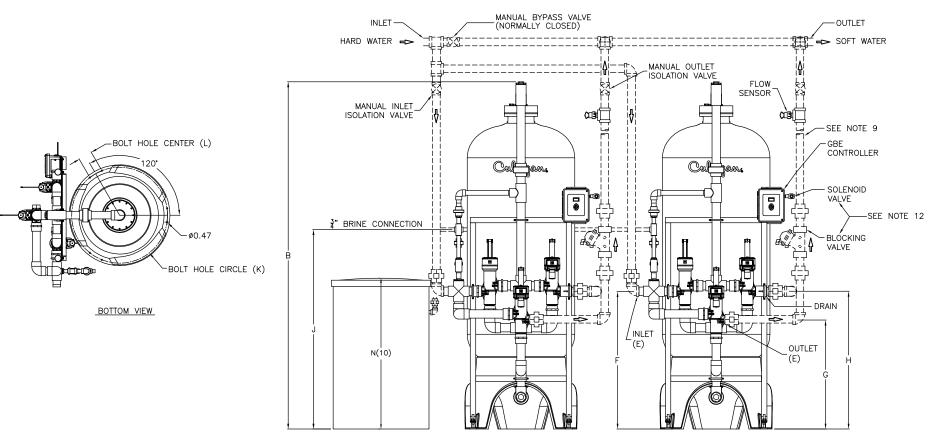
HFxN\_FRP\_SFT\_1

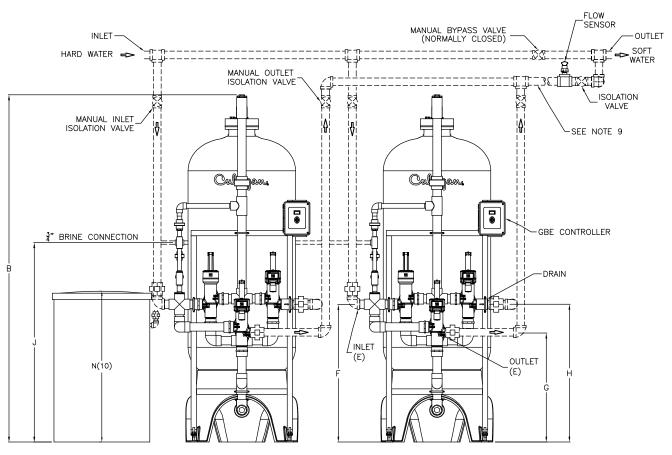
- (1) ITEMS SHOWN IN BROKEN LINES TO BE FURNISHED BY OTHERS
- (2) ALL DIMENSIONS ARE  $\pm$  1 INCH (25mm) AND SUBJECT TO CHANGE WITHOUT NOTICE.
- (3) UNIONS SHOULD BE LOCATED ON INLET AND OUTLET CONNECTIONS OF CONTROL VALVE TO FACILITATE SERVICING.
- (4) THE USE OF DISSIMILAR METALS IN A PIPING SYSTEM 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.

						DIN	MENSIONS (I	NCHES)						UNI	T DATA (	PER TANK)				
MODEL	WIDTH A	HEIGHT B	DEPTH C	TANK	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			TANK	MAX. CAPACITY KGR @ SALT DOSAGE	RESIN VOLUME ft <sup>3</sup>	CONTINUOUS FLOW gpm @ 15 psi drop	PEAK FLOW gpm @ 25 psi drop	DRAIN FLOW gpm	DUPLEX OPER. WT. W/ SUGGESTED BRINE TANK Ibs.	DUPLEX SHIP. WT. WITHOUT BRINE TANK Ibs.
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 <b>©</b> 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 <b>©</b> 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 <b>©</b> 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 <b>©</b> 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









DUPLEX PROGRESSIVE FLOW INSTALLATION

DUPLEX ALTERNATING INSTALLATION

NAM	Culligan® ENGINEERED SYSTEMS	NOTED	WISE		DO NOT SCALE DRAY TOLERANCES: ±1/8" UNLESS O	
3	ENGINEERED OSYSTEMS	Date	Арр	Ву	Change	Let.
мк	ROSEMONT, ILLINOIS					
	PRINT AND BILL OF MATERIAL ARE NOT TO BE USED WITHOUT THE WRITTEN					
.o.	CONSENT OF CULLIGAN INTERNATIONAL CO					

	HFxN	FRP DUPLEX	
	WATER SO	OFTENER SYSTEM	M
5	TECHNIC	AL DATA SHEET	
	DETAILED BY:	APP. BY:	SHEET
	MKM 10/06/11		1 OF 1
	REF. NO.	PART NO.	

HFxN\_FRP\_SFT\_2

- (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.

	D	_1t				TO DRAIN
BRINE TANK	MINERAL TANK		MINERAL TANK TANK	6.4 REF	MINERAL TANK	C C

FLOOR TO

BRINE

CONNECTION

56

56

56

56

56

56

56

DIMENSIONS (INCHES)

OUTLET

G

30.5

30.5

30.5

30.5

30.5

30.5

30.5

FLOOR TO FLOOR TO

DRAIN

38.5

38.5

38.5

38.5

38.5

38.5

INLET/OUTLET

& DRAIN PIPE SIZES

2.0

2.0

2.0

2.0

2.0

2.0

2.0

WIDTH HEIGHT DEPTH DIA.

164 90.7 38.2 21

192 97.7

205 99.2 54.9 36

212 98.9 59.9 42

В

97.3 171

> 97.7 47.1 30

98.9 59.9

39.8 24

47.1

30

42

MODE

HFxN 150-2 FRP

HFxN 210-2 FRI

HFxN 300-2 FRP

HFxN 450-2 FRP

HFxN 600-2 FRP

HFxN 750-2 FRP

HFxN 900-2 FRP 212

FLOOR TO

INLET

38.5

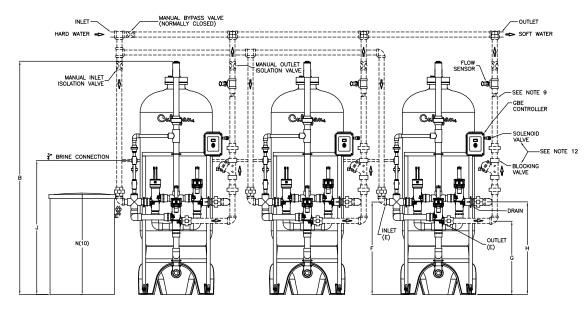
38.5

38.5

38.5

38.5

38.5





	DO NOT SCALE DRAY TOLERANCES: ±1/8" UNLESS O		WISE	NOTED	Culigan® ENGINEERED SYSTEMS
Let.	Change	Ву	Арр	Date	ENGINEERED SYSTEMS
					ROSEMONT, ILLINOIS
_					PRINT AND BILL OF MATERIAL ARE NOT
_					TO BE USED WITHOUT THE WRITTEN CONSENT OF CULLIGAN INTERNATIONAL CO.

HFxN FRP TRIPLEX igan® DSYSTEMS WATER SOFTENER SYSTEM TECHNICAL DATA SHEET

UNIT DATA (PER TANK)

DECIN

VOLUME

ft 3

10

15

20

25

30

CARACITY

DOSAGE

150 @ 75

210 @ 108

300 **©** 150

450 @ 228

600 **©** 306

750 @ 378

900 @ 450

KGR @ SALT

TANK DIA. TANK

> 24 50

> 39 48

42

HEIGH.

N

48

BOLT HOLE BOLT HOLE

CIRCLE DIA.

20.25

23.1

30

30

37.75

41.38

41.38

CENTERS

4.3 24 50

4.3

4.3 30 50

4.3 30 50

4.6

4.3 42 48

4.3

CONTINUOUS

FLOW

psi drop

108

119

129 20

122 20

144

148

146

gpm @ 25 FLOW

apm

13.5

30

45

45

OPER. WT. // SUGGESTEI BRINE TANK

4346

5448

8473

12083

16055

16285

lbs.

1927

5626

3599

4380

5732

7749

8529

FLOW gpm @ 15

psi drop

84

93

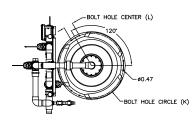
88

104

108

107

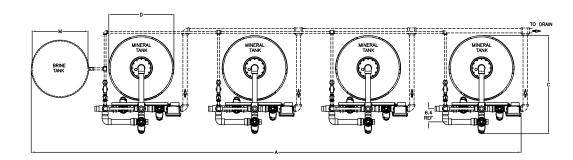
	DETAILED BY: MKM 10/06/11	APP. BY:	1 OF 1	
	REF. NO.	PART NO.		
ю.		HFxN_FRF	_SFT_3	

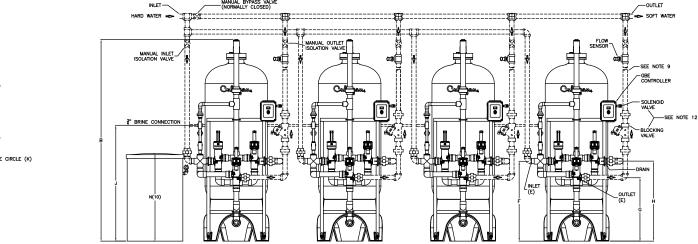


BOTTOM VIEW

- (1) ITEMS SHOWN IN BROKEN LINES TO BE FURNISHED BY OTHERS.
- (2) ALL DIMENSIONS ARE ± 1 INCH (25mm) AND SUBJECT TO CHANGE WITHOUT NOTICE.
- (3) UNIONS SHOULD BE LOCATED ON INLET AND OUTLET CONNECTIONS OF CONTROL VALVE TO FACILITATE SERVICING.
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- (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.
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- (11) SYSTEM USES FRP TANKS WHICH MUST NOT BE STSTEM 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.

						DIME	NSIONS (IN	CHES)						UNI	T DATA (	PER TANK)				
MODEL	WIDTH A	HEIGHT B		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			BRINE TANK HEIGHT N	MAX. CAPACITY KGR @ SALT DOSAGE	RESIN	CONTINUOUS FLOW gpm @ 15 psi drop	FLOW	DRAIN FLOW gpm	QUAD OPER. WT. W/ SUGGESTED BRINE TANK Ibs.	QUAD SHIP. WT. WITHOUT BRINE TANK Ibs.
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 <b>©</b> 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 <b>©</b> 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 <b>©</b> 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 <b>©</b> 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



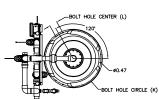




т	DO NOT SCALE OLERANCES: ±1/8" UNLE		WISE	NOTED	Culigan® ENGINEERED SYSTEMS
Let.	Change	Ву	Арр	Date	ENGINEERED SYSTEMS
_					ROSEMONT, ILLINOIS
					PRINT AND BILL OF MATERIAL ARE NOT TO BE USED WITHOUT THE WRITTEN
					CONSENT OF CULLIGAN INTERNATIONAL CO

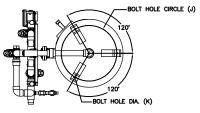
HFxN FRP QUAD WATER SOFTENER SYSTEM TECHNICAL DATA SHEET DETAILED BY: MKM 10/06/11 1 OF 1 REF. NO.

HFxN\_FRP\_SFT\_4



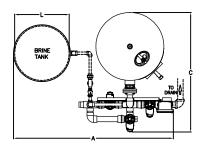
BOTTOM VIEW

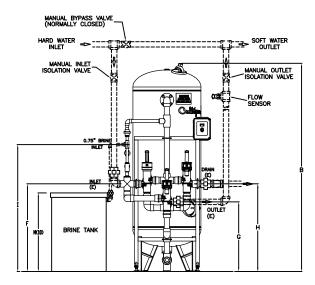
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- (6) ALLOW A MINIMUM OF 24 INCHES ABOVE SOFTENER FOR FILLING.
- (7) TO PERMIT THE OBSERVATION OF THE DRAIN FLOW DO NOT MAKE A DIRECT CONNECTION TO THE DRAIN. PROVIDE AN ARGAP OF AT LEAST FOUR TIMES THE DIAMETER OF THE DRAIN PIPE OR CONFORM TO LOCAL 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.



BOTTOM VIEW
TANK MOUNTING HOLE PATTERN

				DIM	ENSIONS (INCH	ES)								UNI	T DATA (	PER TANK)				
MODEL	WIDTH A	HEIGHT B		TANK	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	TANK	BRINE TANK HEIGHT M	MAX. CAPACITY Kgr @ SALT DOSAGE	RESIN	CONTINUOUS FLOW gpm <b>©</b> 15 psi drop	FLOW	DRAIN FLOW gpm		UNIT SHIP. WT. Ibs.
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 9 108	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 9 150	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 <b>9</b> 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



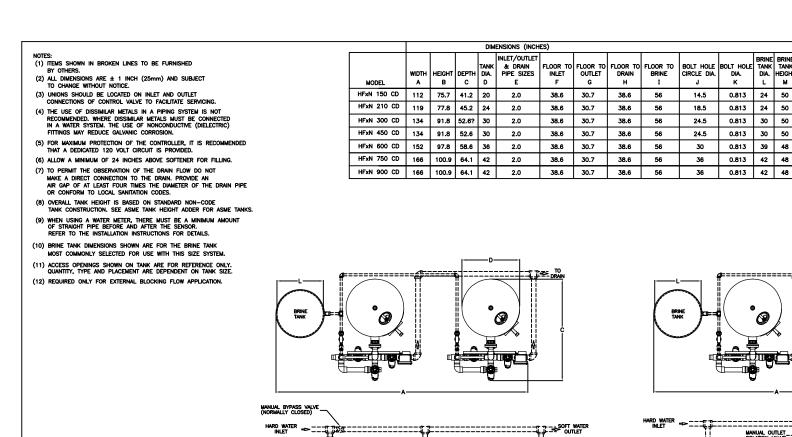


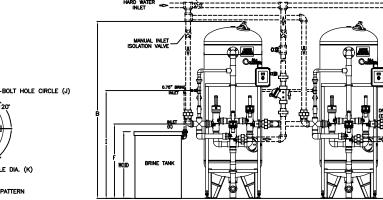
	DO NOT SCALE DRAY TOLERANCES: ±1/8" UNLESS O		WISE	NOTED
Let.	Change	Ву	App	Date

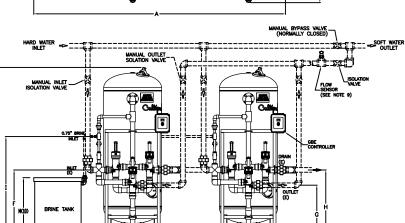
Culigan®
ENGINEERED SYSTEMS
ROSEMONT, ILLINOIS

PRINT AND BILL OF MATERIAL ARE NOT TO BE USED WITHOUT THE WRITTEN CONSENT OF CULLIGAN INTERNATIONAL CO. AME HFXN CD SINGLE
WATER SOFTENER SYSTEM
TECHNICAL DATA SHEET

	DETAILED BY: BBV 10/06/11	APP. BY:	SHEET 1 OF 1							
	REF. NO.	PART NO.								
١.		HFxN_SF	_CD_1							







UNIT DATA (PER TANK)

RESIN

VOLUME

ft <sup>3</sup>

7

10

15

20

25

30

ONTINUOUS

FLOW

gpm @ 15

psi drop

84

93

104

108

107

FLOW

psi drop

110 15

129 20 7199

122 20 7345

144

148

146

DUPLEX

3205

4243

DUPLEX

lbs.

1338

1944

3144

3664

4770

6118

6638

DRAIN

FLOW OPER. W

gpm

10

30 10655

45 14468

45 14607

BRINE BRINE

TANK TANK

DIA. HEIGH

24 50

24 50

30 50

30 50

39 48

42 48

42

48

CAPACITY

DOSAGE

150 @ 75

210 @ 108

300 9 150

450 @ 228

600 @ 306

750 @ 378

900 @ 450

Kgr @ SALT



DUPLEX PROGRESSIVE INSTALATION

\_GBE CONTROLLER SOLENOID
SEE NOTE 12

VALVE SEE NOTE 12

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

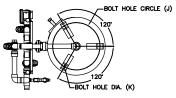
RUSEMONI, ILLINOIS	BBV
	REF.
CONSENT OF CULLIGAN INTERNATIONAL CO.	

TWIN ALTERNATING INSTALATION

NAME	HFxN CD DUPLEX	
	WATER SOFTENER SYSTEM	
	TECHNICAL DATA SHEET	

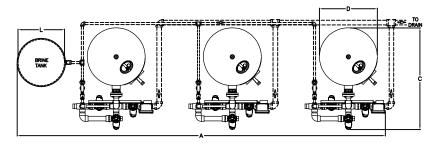
	DETAILED BY:	APP. BY: SHEE	T
	BBV 10/06/11	1 OF	1
	REF. NO.	PART NO.	$\neg$
ю.		HFxN_SFT_CD_	_2

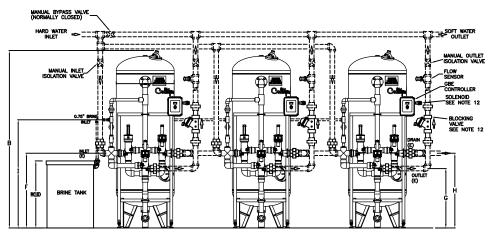
- (1) ITEMS SHOWN IN BROKEN LINES TO BE FURNISHED BY OTHERS.
- (2) ALL DIMENSIONS ARE ± 1 INCH (25mm) AND SUBJECT TO CHANGE WITHOUT NOTICE.
- (3) UNIONS SHOULD BE LOCATED ON INLET AND OUTLET CONNECTIONS OF CONTROL VALVE TO FACILITATE SERVICING.
- (4) THE USE OF DISSIMILAR METALS IN A PIPING SYSTEM IS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



BOTTOM VIEW
TANK MOUNTING HOLE PATTERN

	DIMENSIONS (INCHES)											UNI	T DATA (							
		HEIGHT		TANK DIA.	INLET/OUTLET & DRAIN PIPE SIZES	FLOOR TO INLET	OUTLET	DRAIN	FLOOR TO BRINE	BOLT HOLE CIRCLE DIA.	DIA.	TANK	BRINE TANK HEIGHT	MAX. CAPACITY Kgr @ SALT DOSAGE	RESIN	3,	FLOW gpm © 25	FLOW		TRIPLEX SHIP. WT.
MODEL	Α	В	С	D	E	,	G	+		٠,	к		м	DUSAGE	π-	psi drop	psi drop	gpm	lbs.	ibs.
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 <b>9</b> 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 9 108	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 <b>9</b> 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 <b>9</b> 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 9 306	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 9 378	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 9 450	30	107	146	45	20198	9857



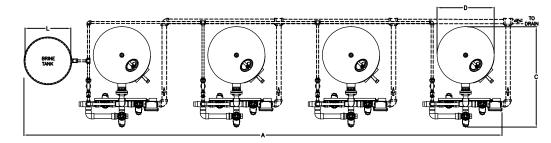


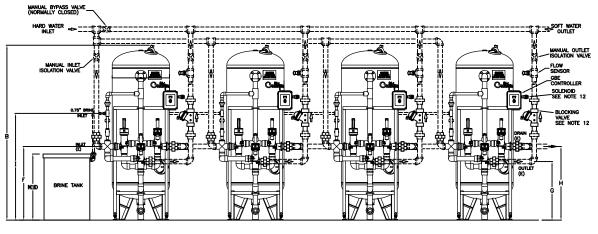
TRIPLEX PROGRESSIVE NSTALATION

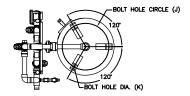
	DO NOT SCALE DRA TOLERANCES: ±1/8" UNLESS O		WISE	NOTED	Culligan®		CD TRIPLEX FTENER SYSTE	м
Let.	Change	Ву	Арр	Date	ENGINEERED SYSTEMS	TECHNICA	L DATA SHEET	•
			F		ROSEMONT, ILLINOIS	DETAILED BY: BBV 10/06/11	APP. BY:	SHEET 1 OF 1
			$\vdash$		PRINT AND BILL OF MATERIAL ARE NOT TO BE USED WITHOUT THE WRITTEN	REF. NO.	PART NO.	1 . 0 .
					CONSENT OF CULLIGAN INTERNATIONAL CO.		HFxN_SF1	_CD_3

- (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)											UNI	T DATA (							
MODEL	WIDTH A	HEIGHT B		TANK	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		TANK		MAX. CAPACITY Kgr @ SALT DOSAGE	RESIN	CONTINUOUS FLOW gpm © 15 psi drop	FLOW	DRAIN FLOW gpm		QUAD SHIP. WT. Ibs.
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 <b>9</b> 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 9 108	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 <b>9</b> 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 <b>9</b> 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 <b>9</b> 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 9 378	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 9 450	30	107	146	45	25788	13076







BOTTOM VIEW

ANK MOUNTING HOLF PATTERN

QUAD PROGRESSIVE INSTALATION

	DO NOT SCALE DRAY TOLERANCES: ±1/8" UNLESS O		WISE	NOTED	Culligan®	NAME HFXN CD QUAD WATER SOFTENER SYSTEM						
Let,	Change	Ву	Арр	Date	ENGINEERED SYSTEMS	TECHNICAL	DATA SHEET					
					ROSEMONT, ILLINOIS	DETAILED BY: BBV 10/06/11	APP. BY:	SHEET 1 OF 1				
					PRINT AND BILL OF MATERIAL ARE NOT TO BE USED WITHOUT THE WRITTEN	REF. NO.	PART NO.	1 UF 1				
					CONSENT OF CULLIGAN INTERNATIONAL CO.		HFxN_SFT	_CD_4				