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# Commercial Products

**Water Softeners**

**Filters**

**Reverse Osmosis**

**Ultraviolet Sterilizers**

## COMMERCIAL EXPERTISE



IWT has dedicated Professional Engineers with decades of commercial water treatment experience to compliment our knowledgeable field sales team. Together they provide complete support starting from the water analysis, sizing and selection right through to the installation.

The commercial market is full of opportunities for you to add valuable revenue:

- Laundromats
- Carwashes
- Restaurants
- Hospitals
- Schools
- Hotels
- Office Buildings
- Manufacturing Facilities



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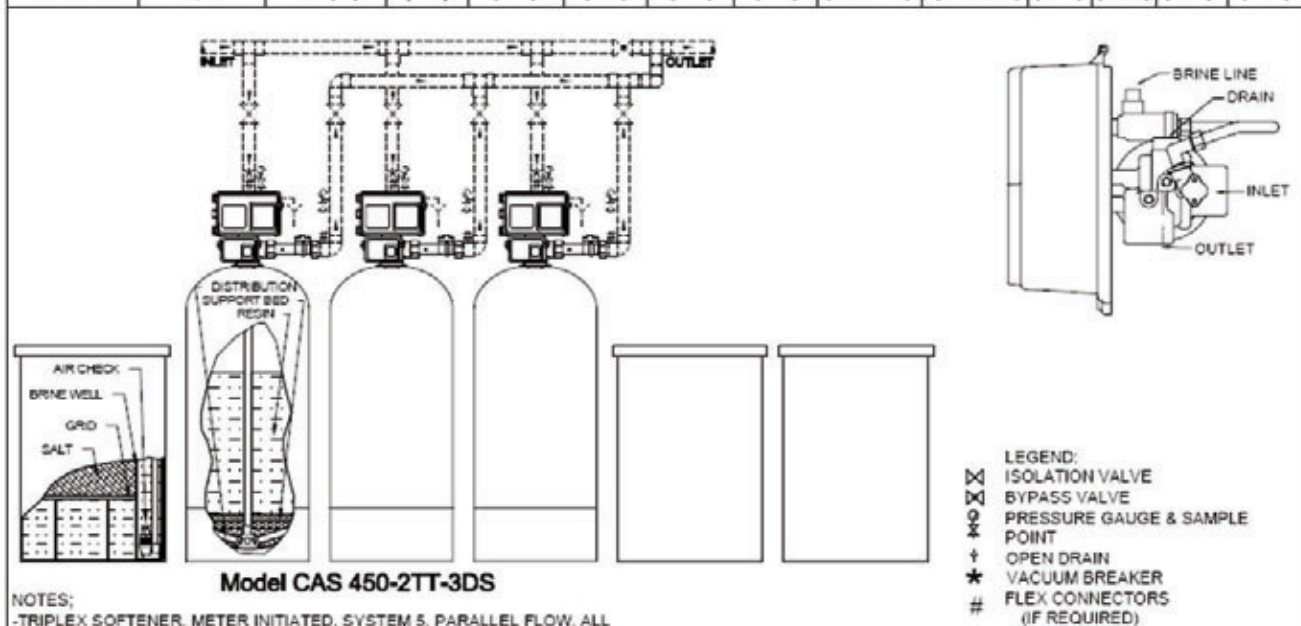


## COMMERCIAL DRAWINGS

If you require a drawing to accompany your quotation please contact us. Our professional drawings include:

- System Type
- Operating Description
- Equipment Weights & Dimensions including Required Installation Space
- Flow Rates
- Electrical
- Piping Layout
- Helpful Installation Notes

Model	Capacity (Kilograms)	Salt Per Regeneration	Resin Volume (Per Tank)	Critical Application (Per Unit)	Flowrate (Per Unit) @ 15 PSI	Flowrate (Per Unit) @ 25 PSI	Maximum Flow To Drain	Mineral Tank Size	Installation Space Required			Shipping Weight	
									Height	Depth	Width		
	@ 15 Lbs/Ft <sup>3</sup> (@ 10 Lbs/Ft <sup>3</sup> )	@ 15 Lbs (Kg) @ 10 Lbs (kg)	Ft <sup>3</sup> (M <sup>3</sup> )	USGPM (L/S)	USGPM (L/S)	USGPM (L/S)	USGPM (L/S)	Inches (mm)	Inches (mm)	Inches (mm)	Inches (mm)	Lbs (Kg)	
CAS 450-2	450,000 405,000	225 (103) 150 (69)	15 (0.42)	75 (4.73)	78 (4.79)	104 (6.56)	25 (1.58)	30"x72" (762x1829)	36"x48" (915x1219)	106 (2692)	42 (1,067)	225 (5715)	4050 (1841)



**NOTES:**

- TRIPLEX SOFTENER, METER INITIATED. SYSTEM 5, PARALLEL FLOW, ALL UNITS ON LINE. INTERLOCKED TO ONLY ALLOW ONE UNIT TO REGENERATE AT A TIME.
- SOFTENER EQUIPPED WITH 2" CONTROL VALVE WITH ELECTRONIC TIMERS
- MINERAL TANKS ARE NSF APPROVED
- UNIT MAX. PRESSURE 125 PSI, (860 KPa), MAX. TEMP 100 F (38 C)
- ALL EXTERNAL PIPING, FITTINGS, VALVING SUPPLIED BY OTHERS
- DUE TO SLIGHT EXPANSION AND CONTRACTION OF MINERAL TANK, PIPING MUST BE DESIGNED TO ALLOW SOME MOVEMENT. FLEX CONNECTORS MAY BE REQUIRED.
- INSTALLATION OF A VACUUM BREAKER RECOMMENDED
- 115 VOLT POWER SUPPLY STANDARD.



**CAS SERIES SOFTENER 2"  
TRIPLEX SYSTEM**

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Project	Date	4/7/10	Rev
	Dwg #	CAS2T	0

# COMMERCIAL CAPABILITIES

## Product Line

IWT offers a complete line of Commercial Water Treatment Products:

- Water Softeners
- Filters
- Chemical Feed Systems
- Ultraviolet Disinfection Systems
- Reverse Osmosis Units
- Dealkalizers
- Nitrate Reduction

## Water Softeners

IWT offers two standard lines of softeners: 1) CAS Series and 2) CDA Series. Both lines use proven piston, seal and spacer valve technology with electronic controllers and fiberglass tanks.

### 1) CAS Series

- Sizes range from 10" to 63" in diameter with resin volumes from 1.5 ft<sup>3</sup> to 58 ft<sup>3</sup> per tank
- Available as single, duplex, triplex and quadraplex systems

### 2) CDA Series

- Sizes range from 9" to 24" in diameter with resin volumes from 1.0 ft<sup>3</sup> to 10 ft<sup>3</sup> per tank
- Available as duplex alternating units only (service / standby)

## Water Filters

IWT offers several standard lines of filters. Standard feature include proven piston, seal and spacer valve technology with electronic controllers and fiberglass tanks from 10" to 36" in diameter. Larger filters (42" to 63") available with Aquamatic diaphragm valves. Options includes Clock, Meter or Pressure Differential Initiated. Side mounted control valves (1.5" & 2") and treated water regeneration kits also available.

- 1) **CMG Series** - Manganese Greensand
- 2) **CMM Series** - Multi-Media
- 3) **CAC Series** - Carbon
- 4) **CBF Series** - Birm
- 5) **CNF Series** - Neutralizing

## Reverse Osmosis

- CAN RO Series offers reverse osmosis systems from 530 to 38,880 Gallons per day

# COMMERCIAL SOFTENER SPECIFICATIONS

## CDA SERIES

Model	Capacity	Salt		Resin	Critical Flow	Flow Rates		Max.Flow To Drain	Mineral Tank		Brine Tank		System Dimensions		
		@15 lbs/Ft3	Kg	Ft <sup>3</sup>		@ 15 PSI	@ 25 PSI		Diameter	Side	Diameter	Side	Height	Depth	Width
		@10 lbs/Ft3	Kg	M <sup>3</sup>		USGPM	USGPM		In	In	In	In	In	In	In
CDA 30-3/4 or 1	30,000	15	6.8	1	5	12	17	2	9	48	16	32	58	22	43
	27,000	10	4.5	0.03	0.32	0.76	1.07	0.13	229	1219	406	813	1473	559	1092
CDA 40-3/4 or 1	39,900	20	9.1	1.33	7	13	18	2.4	10	54	16	32	65	22	45
	35,910	13	6.0	0.04	0.42	0.82	1.14	0.15	254	1372	406	813	1651	559	1143
CDA 45-3/4 or 1	45,000	22.5	10.2	1.5	7.5	13	18	2.4	10	54	16	32	65	22	45
	40,500	15	6.8	0.04	0.47	0.82	1.14	0.15	254	1372	406	813	1651	559	1143
CDA 50-3/4 or 1	50,100	25	11.4	1.67	8	15	21	4	12	52	20	37	65	26	53
	45,090	17	7.6	0.05	0.53	0.95	1.32	0.25	305	1321	508	940	1651	660	1346
CDA 60-3/4 or 1	60,000	30	13.6	2	10	15	20	4	12	52	20	37	63	26	53
	54,000	20	9.1	0.06	0.63	0.95	1.26	0.25	305	1321	508	940	1600	660	1346
CDA 90-3/4 or 1	90,000	45	20.5	3	15	15	21	5	14	65	24	37	76	30	61
	81,000	30	13.6	0.08	0.95	0.95	1.32	0.32	356	1651	610	940	1930	762	1549
CDA 120-3/4 or 1	120,000	60	27.3	4	16	16	21	7	16	65	24	37	76	30	65
	108,000	40	18.2	0.11	1.01	1.01	1.32	0.44	406	1651	610	940	1930	762	1651
CDA 60-1.5	60,000	30	13.6	2	10	28	39	5	14	65	20	37	76	26	57
	54,000	20	9.1	0.06	0.63	1.77	2.46	0.32	356	1651	508	940	1930	660	1448
CDA 90-1.5	90,000	45	20.5	3	15	25	35	5	14	65	24	37	76	30	61
	81,000	30	13.6	0.08	0.95	1.58	2.21	0.32	356	1651	610	940	1930	762	1549
CDA 120-1.5	120,000	60	27.3	4	20	27	38	7	16	65	24	37	76	30	65
	108,000	40	18.2	0.11	1.26	1.70	2.40	0.44	406	1651	610	940	1930	762	1651
CDA 150-1.5	150,000	75	34.1	5	25	33	44	12	21	62	24	48	78	30	75
	135,000	50	22.7	0.14	1.58	2.08	2.78	0.76	533	1575	610	1219	1981	762	1905
CDA 180-1.5	180,000	90	40.9	6	30	32	43	12	21	62	24	48	78	30	75
	162,000	60	27.3	0.17	1.89	2.02	2.71	0.76	533	1575	610	1219	1981	762	1905
CDA 210-1.5	210,000	105	47.7	7	31	31	42	12	21	62	24	48	78	30	75
	189,000	70	31.8	0.20	1.96	1.96	2.65	0.76	533	1575	610	1219	1981	762	1905
CDA 270-1.5	270,000	135	61.4	9	32	32	44	15	24	72	30	48	86	36	87
	243,000	90	40.9	0.25	2.02	2.02	2.78	0.95	610	1829	762	1219	2184	914	2210
CDA 300-1.5	300,000	150	68.2	10	32	32	43	15	24	72	30	48	86	36	87
	270,000	100	45.5	0.28	2.02	2.02	2.71	0.95	610	1829	762	1219	2184	914	2210

## CAS SERIES

Model	Capacity	Resin	Salt		Critical Flow	1"		1.5"		2"		2.0"		3"		Max Flow To Drain	Dimensions	
			@15 lbs/Ft3	Kg		@ 15 PSI	@ 25 PSI	@ 15 PSI	@ 25 PSI	@ 15 PSI	@ 25 PSI	@ 15 PSI	@ 25 PSI	Mineral Tank	Brine Tank			
			@10 lbs/Ft3	M <sup>3</sup>		USGPM	USGPM	USGPM	USGPM	USGPM	USGPM	USGPM	USGPM	In	In			
CAS 45	45000	1.5	23	15	7.5	15	21								2.4	10x54	20" x 37"	
	40500	0.04	10.2	6.8	0.47	0.95	1.32								0.15	254x1372	508x940	
CAS 60	60000	2	30	20	10	21	28	37	51	49	68				5	14x65	20" x 37"	
	54000	0.06	13.6	9.1	0.63	1.32	1.77	2.33	3.22	3.09	4.29				0.32	356x1651	508x940	
CAS 90	90000	3	45	30	15	19	26	32	45	39	56				5	14x65	24" x 37"	
	81000	0.08	20.5	13.6	0.95	1.20	1.64	2.02	2.84	2.46	3.53				0.32	356x1651	610x940	
CAS 120	120000	4	60	40	20	20	27	36	51	46	65				7	16x65	24" x 37"	
	108000	0.11	27.3	18.2	1.26	1.26	1.70	2.27	3.22	2.90	4.10				0.44	403x1651	610x940	
CAS 150	150000	5	75	50	25	23	30	46	62	68	95				12	21x62	24" x 48"	
	135000	0.14	34.1	22.7	1.58	1.45	1.89	2.90	3.91	4.29	5.99				0.76	533x1575	610x1220	
CAS 180	180000	6	90	60	30	22	30	45	60	65	91				12	21x62	24" x 48"	
	162000	0.17	40.9	27.3	1.89	1.39	1.89	2.84	3.79	4.10	5.74				0.76	533x1575	610x1220	
CAS 210	210000	7	105	70	35	22	29	43	59	61	86				12	21x62	24" x 48"	
	189000	0.20	47.7	31.8	2.21	1.39	1.83	2.71	3.72	3.85	5.43				0.76	533x1575	610x1220	
CAS 270	270000	9	135	90	45	23	30	46	62	68	96				15	24x72	30" x 48"	
	243000	0.25	61.4	40.9	2.84	1.45	1.89	2.90	3.91	4.29	6.06				0.95	610x1829	762x1220	
CAS 300	300000	10	150	100	50	22	30	45	61	66	94				15	24x72	30" x 48"	
	270000	0.28	68.2	45.5	3.15	1.39	1.89	2.84	3.85	4.16	5.93				0.95	610x1829	762x1220	
CAS 360	360000	12	180	120	60			50	66	79	107	73	100	145	199	25	30x72	30" x 48"
	324000	0.34	81.8	54.5	3.79			3.15	4.16	4.98	6.75	4.61	6.31	9.15	12.55	1.58	762x1829	762x1220
CAS 390	390000	13	195	130	65			50	66	78	106	73	99	141	196	25	30x72	30" x 48"
	351000	0.37	88.6	59.1	4.10			3.15	4.16	4.92	6.69	4.61	6.25	8.90	12.37	1.58	762x1829	762x1220
CAS 450	450000	15	225	150	75			50	66	76	103	71	98	132	188	25	30x72	36" x 48"
	405000	0.42	102.3	68.2	4.73			3.15	4.16	4.79	6.50	4.48	6.18	8.33	11.86	1.58	762x1829	915x1220
CAS 510	510000	17	255	170	85			49	64	73	101	70	95	127	181	25	30x72	36" x 48"
	459000	0.48	115.9	77.3	5.36			3.09	4.04	4.61	6.37	4.42	5.99	8.01	11.42	1.58	762x1829	915x1220
CAS 570	570000	19	285	190	95			52	68	83	111	77	104	162	219	35	36x72	36" x 48"
	513000	0.54	129.5	86.4	5.99			3.28	4.29	5.24	7.00	4.86	6.56	10.22	13.82	2.21	915x1829	915x1220
CAS 600	600000	20	300	200	100			51	68	83	111	77	103	160	218	35	36x72	36" x 48"
	540000	0.57	136.4	90.9	6.31			3.22	4.29	5.24	7.00	4.86	6.50	10.09	13.75	2.21	915x1829	915x1220
CAS 630	630000	21	315	210	105			51	67	82	110	76	103	157	215	35	36x72	36" x 48"
	567000	0.59	143.2	95.5	6.62			3.22	4.23	5.17	6.94	4.79	6.50	9.91	13.56	2.21	915x1829	915x1220
CAS 660	660000	22	330	220	110			80	107	182	241	45	42x72	42" x 60"				
	594000	0.62	150.0	100.0	6.94			5.05	6.75	11.48	15.20	2.84	1067x1829	1067x1524				
CAS 720	720000	24	360	240	120			80	106	178	240	45	42x72	42" x 60"				
	648000	0.68	163.6	109.1	7.57			5.05	6.69	11.23	15.14	2.84	1067x1829	1067x1524				
CAS 780	780000	26	390	260	130			79	106	175	237	45	42x72	42" x 60"				
	702000	0.74	177.3	118.2	8.20			4.98	6.69	11.04	14.95	2.84	1067x1829	1067x1524				
CAS 900	900000	30	450	300	150			82	109	189	251	60	48x72	42" x 60"				
	810000	0.85	204.5	136.4	9.46			5.17	6.88	11.92	15.84	3.79	1220x1829	1067x1524				
CAS 1020	1																	

# COMMERCIAL FILTER SPECIFICATIONS

Multi Media Filters								
CMM Series Model	Max.	Typical	Max Flow To Drain	Mineral Tank		Installation		
	Service Flow Rate			Diameter	Height	Height	Depth	Width
	USPGM	USPGM	USPGM	In	In	In	In	In
	(L/S)	(L/S)	(L/S)	(mm)	(mm)	(mm)	(mm)	(mm)
CMM 10-1"	5	2.5	5	10	54	64	16	16
	0.32	0.16	0.32	254	1,372	1,626	406	406
CMM 12-1"	7	3.5	7	12	52	21	18	18
	0.44	0.22	0.44	305	1,321	533	457	457
CMM 14-1"	10	5	12	14	65	75	20	20
	0.63	0.32	0.76	356	1,651	1,905	508	508
CMM 16-1"	14	7	15	16	65	75	22	22
	0.88	0.44	0.95	406	1,651	1,905	559	559
CMM 21-1.5"	24	12	30	21	62	77	27	27
	1.51	0.76	1.89	533	1,575	1,956	686	686
CMM 24-1.5"	32	16	40	24	24	85	30	30
	2.02	1.01	2.52	610	610	2,159	762	762
CMM 30-2.0"	50	25	60	30	30	85	36	36
	3.15	1.58	3.79	762	762	2,159	914	914
CMM 36-2.0"	70	35	85	36	72	86	42	42
	4.42	2.21	5.36	914	1,829	2,184	1,067	1,067
CMM 42-2.5'	96	48	120	42	72	98	65	48
	6.06	3.03	7.57	1,067	1,829	2,489	1,651	1,219
CMM 48-3"	126	63	160	48	72	98	71	54
	7.95	3.97	10.09	1,219	1,829	2,489	1,803	1,372
CMM 63-3"	216	108	270	63	86	109	86	69
	13.63	6.81	17.03	1,600	2,184	2,769	2,184	1,753

Note: Dimensions are for single units



Carbon Filters								
CAC Series Model	Typical	RO Pretreat	Max Flow To Drain	Mineral Tank		Installation		
	Service Flow Rate			Diameter	Height	Height	Depth	Width
	USPGM	USPGM	USPGM	In	In	In	In	In
	(L/S)	(L/S)	(L/S)	(mm)	(mm)	(mm)	(mm)	(mm)
CAC 10-1"	3	1.5	5	10	54	64	16	16
	0.19	0.09	0.32	254	1,372	1,626	406	406
CAC 12-1"	4.5	2	7	12	52	21	18	18
	0.28	0.13	0.44	305	1,321	533	457	457
CAC 14-1"	6	3	10	14	65	75	20	20
	0.38	0.19	0.63	356	1,651	1,905	508	508
CAC 16-1"	8	4	15	16	65	75	22	22
	0.50	0.25	0.95	406	1,651	1,905	559	559
CAC 21-1.5"	14	7	25	21	62	77	27	27
	0.88	0.44	1.58	533	1,575	1,956	686	686
CAC 24-1.5"	19	9	30	24	24	85	30	30
	1.20	0.57	1.89	610	610	2,159	762	762
CAC 30-2.0"	29	15	50	30	30	85	36	36
	1.83	0.95	3.15	762	762	2,159	914	914
CAC 36-2.0"	42	21	70	36	72	86	42	42
	2.65	1.32	4.42	914	1,829	2,184	1,067	1,067
CAC 42-2.0'	58	29	95	42	72	100	65	48
	3.66	1.83	5.99	1,067	1,829	2,540	1,651	1,219
CAC 42-2.5'	58	29	95	42	72	98	65	48
	3.66	1.83	5.99	1,067	1,829	2,489	1,651	1,219
CAC 48-3"	75	38	125	48	72	98	71	54
	4.73	2.40	7.89	1,219	1,829	2,489	1,803	1,372

Note: Dimensions are for single units

# COMMERCIAL FILTER SPECIFICATIONS



Manganese Greensand Filters									
CMG Series Model	Max Service Flow Rate			Max Flow To Drain	Mineral Tank		Installation		
	0-3 PPM	3-8 PPM	8-15 PPM		Diameter	Height	Height	Depth	Width
	USPGM (L/S)	USPGM (L/S)	USPGM (L/S)	USPGM (L/S)	In (mm)	In (mm)	In (mm)	In (mm)	In (mm)
CMG 10-1"	2.5	1.5	1	5	10	54	64	16	16
	0.16	0.09	0.06	0.32	254	1,372	1,626	406	406
CMG 12-1"	4	2	1.5	7	12	52	21	18	18
	0.25	0.13	0.09	0.44	305	1,321	533	457	457
CMG 14-1"	5	3	2	10	14	65	75	20	20
	0.32	0.19	0.13	0.63	356	1,651	1,905	508	508
CMG 16-1"	7	4	2.5	15	16	65	75	22	22
	0.44	0.25	0.16	0.95	406	1,651	1,905	559	559
CMG 21-1.5"	12	7	5	25	21	62	77	27	27
	0.76	0.44	0.32	1.58	533	1,575	1,956	686	686
CMG 24-1.5"	16	9	6	30	24	24	85	30	30
	1.01	0.57	0.38	1.89	610	610	2,159	762	762
CMG 30-2.0"	25	15	10	50	30	30	85	36	36
	1.58	0.95	0.63	3.15	762	762	2,159	914	914
CMG 36-2.0"	35	21	14	70	36	72	86	42	42
	2.21	1.32	0.88	4.42	914	1,829	2,184	1,067	1,067
CMG 42-2.0'	48	29	19	95	42	72	100	65	48
	3.03	1.83	1.20	5.99	1,067	1,829	2,540	1,651	1,219
CMG 42-2.5'	48	29	19	95	42	72	98	65	48
	3.03	1.83	1.20	5.99	1,067	1,829	2,489	1,651	1,219
CMG 48-3"	63	38	25	125	48	72	98	71	54
	3.97	2.40	1.58	7.89	1,219	1,829	2,489	1,803	1,372
CMG 63-3"	108	65	42	215	63	86	109	86	69
	6.81	4.10	2.65	13.56	1,600	2,184	2,769	2,184	1,753

Note: Dimensions are for single units

Chem Free Filters									
CCF Series Model	Service	Peak**		Max To Drain	Mineral Tank		Installation		
		Flow Rate	Flow Rate		Diameter	Height	Height	Depth	Width
	USPGM (L/S)	USPGM (L/S)	USPGM (L/S)	USPGM (L/S)	In (mm)	In (mm)	In (mm)	In (mm)	In (mm)
CCF 10-1"	1.5	2.5	5	10	54	64	16	16	16
	0.09	0.16	0.32	0.32	254	1,372	1,626	406	406
CCF 12-1"	2	4	7	12	12	52	21	18	18
	0.13	0.25	0.44	0.44	305	1,321	533	457	457
CCF 14-1"	3	5	10	14	14	65	75	20	20
	0.19	0.32	0.63	0.63	356	1,651	1,905	508	508
CCF 16-1"	4	7	15	16	16	65	75	22	22
	0.25	0.44	0.95	0.95	406	1,651	1,905	559	559
CCF 21-1.5"	7	12	25	21	21	62	77	27	27
	0.44	0.76	1.58	1.58	533	1,575	1,956	686	686
CCF 24-1.5"	9	16	30	24	24	24	85	30	30
	0.57	1.01	1.89	1.89	610	610	2,159	762	762
CCF 30-2.0"	15	25	50	30	30	30	85	36	36
	0.95	1.58	3.15	3.15	762	762	2,159	914	914
CCF 36-2.0"	21	35	70	36	36	72	86	42	42
	1.32	2.21	4.42	4.42	914	1,829	2,184	1,067	1,067
CCF 42-2.0'	29	48	95	42	42	72	100	65	48
	1.83	3.03	5.99	5.99	1,067	1,829	2,540	1,651	1,219
CCF 42-2.5'	29	48	95	42	42	72	98	65	48
	1.83	3.03	5.99	5.99	1,067	1,829	2,489	1,651	1,219
CCF 48-3"	38	63	125	48	48	72	98	71	54
	2.40	3.97	7.89	7.89	1,219	1,829	2,489	1,803	1,372
CCF 63-3"	65	108	215	63	63	86	109	86	69
	4.10	6.81	13.56	13.56	1,600	2,184	2,769	2,184	1,753

Note: Dimensions are for single units



## COMMERCIAL FILTER SPECIFICATIONS



<b>Birm Filters</b>							
CBF Series Model	Max Service	Max To Drain	Mineral Tank		Installation		
			Flow Rate	Diameter	Height	Height	Depth
	USPGM	USPGM	In	In	In	In	In
	(L/S)	(L/S)	(mm)	(mm)	(mm)	(mm)	(mm)
CBF 10-1"	2.5	5	10	54	64	16	16
	0.16	0.32	254	1,372	1,626	406	406
CBF 12-1"	4	7	12	52	21	18	18
	0.25	0.44	305	1,321	533	457	457
CBF 14-1"	5	10	14	65	75	20	20
	0.32	0.63	356	1,651	1,905	508	508
CBF 16-1"	7	15	16	65	75	22	22
	0.44	0.95	406	1,651	1,905	559	559
CBF 21-1.5"	12	25	21	62	77	27	27
	0.76	1.58	533	1,575	1,956	686	686
CBF 24-1.5"	16	30	24	24	85	30	30
	1.01	1.89	610	610	2,159	762	762
CBF 30-2.0"	25	50	30	30	85	36	36
	1.58	3.15	762	762	2,159	914	914
CBF 36-2.0"	35	70	36	72	86	42	42
	2.21	4.42	914	1,829	2,184	1,067	1,067
CBF 42-2.0'	48	95	42	72	100	65	48
	3.03	5.99	1,067	1,829	2,540	1,651	1,219
CBF 42-2.5'	48	95	42	72	98	65	48
	3.03	5.99	1,067	1,829	2,489	1,651	1,219
CBF 48-3"	63	125	48	72	98	71	54
	3.97	7.89	1,219	1,829	2,489	1,803	1,372
CBF 63-3"	108	215	63	86	109	86	69
	6.81	13.56	1,600	2,184	2,769	2,184	1,753

**Note: Dimensions are for single units**

## F30 SERIES CONTROL VALVE

### Features:

- Lead free, corrosion resistant brass
- Standard line of small / medium injectors handle from 4 to 20 cu ft of resin
- Water softeners (10" to 24" in diameter)
- Water filters (10" to 21" in diameter)
- Adjustable cycles
- Heavy duty construction
- Multiple Valves Electronics (MVE)

### Benefits:

- Excellent valve for large residential or light commercial applications
- High service flows
- Simplifies inventory & servicing

### Options:

- **Filter or Softener control valves**
- **Auxiliary Microswitch Mounting Capability**
- **No Raw Water Bypass Piston**
- **Environmental Cover**
- **Regeneration Start Options:**
  - Time Clock
  - Meter Immediate
  - Meter Delayed
  - External dry contact signal



<b>F30</b>	
<b>Valve Material</b>	Lead free Brass
<b>Ports:</b>	
<b>Material</b>	Lead free Brass
I/O	1.0"
Base	2.5" - 8 NPSM
Riser, OD	1.05"
Drain	1.0"
Brine	3/8" & 1/2"
<b>Flows:</b>	
Service (gpm @ 15 psi drop)	26.0
Service CV (gpm @ 1 psi drop)	6.8
Backwash (gpm @ 25 psi drop)	25.0
Backwash CV	5.0
<b>Ratings:</b>	
Brining System	Small - Medium
Electrical	Input :110V/60Hz Output: 24V/50, or 60Hz (others available)
Pressure	Hydrostatic: 300 psi Operating: 10 -125 psi
Running Water Temperature	35 - 110°F
<b>Regeneration Cycle Positions</b>	5

## F40 SERIES CONTROL VALVE



### Features:

- Lead free, corrosion resistant brass
- Standard line of medium injectors handle from 4 to 20 cu ft of resin
- Water softeners (14" to 36" in diameter)
- Water filters (14" to 30" in diameter)
- Adjustable cycles
- Horizontal single piston valve
- Multiple Valves Electronics (MVE)

### Benefits:

- High service flows
- Simplifies inventory & servicing
- Heavy duty construction
- High reliability and performance

<b>F40</b>	
<b>Valve Material</b>	Lead free Brass
<b>Ports:</b>	
<b>Material</b>	Lead free Brass
I/O	1.5"
Base	4.0"
Riser, OD	1.9"
Drain	1.0"
Brine	1/2"
<b>Flows:</b>	
Service (gpm @ 15 psi drop)	49.0
Service Cv	12.7
Backwash (gpm @ 25 psi drop)	49.0
Backwash CV	9.8
<b>Ratings:</b>	
Brining System	Medium
Electrical	110V/60Hz, 24V/50, or 60Hz (others available)
Pressure	Hydrostatic: 300 psi Operating: 10 -125 psi
Running Water Temperature	35 - 110°F
<b>Regeneration Cycle Positions</b>	5

### Options:

- **Filter or Softener control valves**
- **Auxiliary Microswitch Mounting Capability**
- **No Raw Water Bypass Piston**
- **Environmental Cover**
- **Regeneration Start Options:**
  - Time Clock
  - Meter Immediate
  - Meter Delayed
  - External dry contact signal
- **Side Mount**
- **Service Valve Operator**

## F50 SERIES CONTROL VALVE

### Features:

- Lead free, corrosion resistant brass
- Standard line of medium injectors handle from 4 to 20 cu ft of resin
- Water softeners (14" to 36" in diameter)
- Water filters (14" to 30" in diameter)
- Adjustable cycles
- Horizontal two piston valve
- Multiple Valves Electronics (MVE)

### Benefits:

- High service flows
- Simplifies inventory & servicing
- High reliability and performance



<b>F50</b>	
<b>Valve Material</b>	Lead free Brass
<b>Ports:</b>	
<b>Material</b>	Lead free Brass
I/O	2.0"
Base	4.0" - 8UN
Riser, OD	1.9"
Drain	1.0"
Brine	1/2"
<b>Flows:</b>	
Service (gpm @ 15 psi drop)	100.0
Service Cv	27.5
Backwash (gpm @ 25 psi drop)	36.0
Backwash CV	5.0
<b>Ratings:</b>	
Brining System	Medium
Electrical	Input : 110V/60Hz Output: 24V/50, or 60Hz (others available)
Pressure	Hydrostatic: 300 psi Operating: 20 -125 psi
Running Water Temperature	35 - 110°F
<b>Regeneration Cycle Positions</b>	5

### Options:

- Filter or Softener control valves
- Auxiliary Microswitch Mounting Capability
- No Raw Water Bypass Piston
- Environmental Cover
- Regeneration Start Options:
  - Time Clock
  - Meter Immediate
  - Meter Delayed
  - External dry contact signal
- Side Mount
- Service Valve Operator

## F60 SERIES CONTROL VALVE



### Features:

- Lead free, corrosion resistant brass
- Standard line of large injectors handle from 20 to 70 cu ft of resin
- Backwash capacity accommodates tanks up to 63" in diameter
- Ideal for most filter applications up to 42"
- Horizontal single piston valve
- Multiple Valves Electronics (MVE)

### Benefits:

- High service flows
- Simplifies inventory & servicing
- High reliability and performance

<b>F60</b>	
<b>Valve Material</b>	Lead free Brass
<b>Ports:</b>	
<b>Material</b>	Lead free Brass
I/O	2.0"
Base	4.0" - 8NPSM
Riser, OD	2.375"
Drain	2.0"
Brine	1.0"
<b>Flows:</b>	
Service (gpm @ 15 psi drop)	98.0
Service Cv	24.8
Backwash (gpm @ 25 psi drop)	105.0
Backwash CV	21.0
<b>Ratings:</b>	
Brining System	Large
Electrical	Input : 110V/60Hz Output: 24V/50, or 60Hz (others available)
Pressure	Hydrostatic: 300 psi Operating: 20 -125 psi
Running Water Temperature	35 - 110°F
<b>Regeneration Cycle Positions</b>	5

### Options:

- Filter or Softener control valves
- Auxiliary Microswitch Mounting Capability
- No Raw Water Bypass Piston
- Environmental Cover
- Regeneration Start Options:
  - Time Clock
  - Meter Immediate
  - Meter Delayed
  - External dry contact signal
- Side Mount
- Service Valve Operator

# COMMERCIAL REVERSE OSMOSIS

**Canature** Reverse Osmosis systems are built to give trouble-free years of operation in the toughest of water conditions. The systems are designed for Commercial and Industrial applications including Hospitals, Restaurants, Bottled Water, Car Washes, Boiler Pre-treatment, or any other application where high purity water is required.

## Standard Features

- Large capacity 5 Micron Pre-Filter
- Corrosion resistant powder coated frame
- Liquid filled Inlet, Outlet, Operating system gauges
- Low pressure pump protection switch
- Permeate, Waste, and Recycle Flow Meters
- Stainless Steel Flow Control Valves
- Stainless Steel Pressure Vessels
- Electronic RO System Controller

## Optional Features

- Automatic Feed Water Flush
- Automatic Permeate Water Flush
- Pre-treatment Lock Out
- Clean in Place System
- Stainless Steel Pump
- TDS / Conductivity Monitor
- High Rejection Membranes (99.6%)
- CSA approval



Flow rates are based on standard operating conditions. Flow rates can vary depending on water temperature and conductivity. Contact us for correct sizing to suit your application.

Model	Permeate Flow (GPM)	Recovery %	Qty Membranes	Operating Pressure (PSI)	Motor HP	Dimensions HxWxD Inches	Inlet Connection	Outlet Connection	Drain Connection	Voltage
CANRO 2540-1	0.37	50%	1	200	1/3 HP	45 X 28 X 24	3/4" NPT(F)	1/2" NPT(M)	1/2" NPT(M)	115V
CANRO 2540-2	0.75	50%	2	200	1/2 HP	45 X 28 X 24	3/4" NPT(F)	1/2" NPT(M)	1/2" NPT(M)	115V/230V
CANRO 2540-3	1.15	50%	3	200	1/2 HP	45 X 28 X 24	3/4" NPT(F)	1/2" NPT(M)	1/2" NPT(M)	115V/230V
Model	Permeate Flow (GPM)	Recovery %	Qty Membranes	Operating Pressure (PSI)	Motor HP	Dimensions HxWxD Inches	Inlet Connection	Outlet Connection	Drain Connection	Voltage
CANRO 4040-1	1.05	50%	1	200	1 HP	60 X 28 X 24	3/4" NPT(F)	1/2" NPT(M)	1/2" NPT(M)	230V
CANRO 4040-2	2.10	50%	2	200	1.5 HP	60 X 28 X 24	3/4" NPT(F)	1/2" NPT(M)	1/2" NPT(M)	230V
CANRO 4040-3	3.15	50%	3	200	1.5 HP	60 X 28 X 24	3/4" NPT(F)	1/2" NPT(M)	1/2" NPT(M)	230V
CANRO 4040-4	4.20	50%	4	200	2 HP	60 X 28 X 24	3/4" NPT(F)	1/2" NPT(M)	1/2" NPT(M)	230V
CANRO 4040-5	5.25	50%	5	200	3 HP	60 X 28 X 24	3/4" NPT(F)	1/2" NPT(M)	1/2" NPT(M)	230V
CANRO 4040-6	6.30	50%	6	200	3 HP	60 X 28 X 24	3/4" NPT(F)	3/4" NPT(M)	3/4" NPT(M)	230V
CANRO 4040-7	7.35	50%	7	200	5 HP	60 X 28 X 24	3/4" NPT(F)	3/4" NPT(M)	3/4" NPT(M)	230V
CANRO 4040-8	8.40	50%	8	200	5 HP	60 X 28 X 24	3/4" NPT(F)	3/4" NPT(M)	3/4" NPT(M)	230V
Model	Permeate Flow (GPM)	Recovery %	Qty Membranes	Operating Pressure (PSI)	Motor HP	Dimensions HxWxD Inches	Inlet Connection	Outlet Connection	Drain Connection	Voltage
CANIRO 4040-9	7.25	75%	9	200	3 HP	60 x 120 x 30	1" NPT(F)	3/4" NPT(M)	3/4" NPT(M)	230V
CANIRO 4040-12	10.75	75%	12	200	5 HP	60 x 120 x 30	1" NPT(F)	1" NPT(M)	1" NPT(M)	230V
CANIRO 4040-18	16.50	75%	18	200	5 HP	60 x 120 x 30	1.5" NPT(F)	1" NPT(M)	1" NPT(M)	230V
CANIRO 4040-24	22.00	75%	24	200	7.5 HP	60 x 120 x 30	1.5" NPT(F)	1" NPT(M)	1" NPT(M)	230V
CANIRO 4040-30	27.00	75%	30	200	7.5 HP	60 x 120 x 30	1.5" NPT(F)	1" NPT(M)	1" NPT(M)	230V

## SIZING & APPLICATION

Information required to assist in Commercial sizing. Please note that all items listed below may not be required for your specific application

### Questions

Type of Location i.e. Apartment, Hotel, Hospital, School etc

Size of location i.e. number of suites, beds, students, fixture count etc

Is all the water to be treated?

What is the water to be used for i.e. general purpose, boiler feed, pre-treatment to RO, etc?

Estimated water usage (include time interval-12 hrs per day etc)  
Are there water meter readings available?

Is there existing equipment? If so, describe what size it is and was it keeping up to the current demand).

Is there a sketch of the existing system?

Is there a water analysis lab report available i.e. at a minimum hardness, iron, manganese, pH, TDS, Other?

What is the source of the water i.e. municipal , private well or other?  
 - If municipal, what is the incoming line size and pressure?  
 - If well or other, what is the actual pump rate, how many sources, pipe size and distance to location of treatment equipment?  
 - What is the current pressure system (size and number of pressure tanks, etc) and how are they controlled i.e. pressure switches and settings, etc.

Are there reservoirs ? If so, what size and how is the level controlled, pumping rate, etc?

Is the system also used for fire protection?

What is the space availability for the equipment as well as access to the space (door size, etc)?

What is drain size, location and capacity?

Power available?

Any special requirements (controls, ASME tanks, etc) for this application?

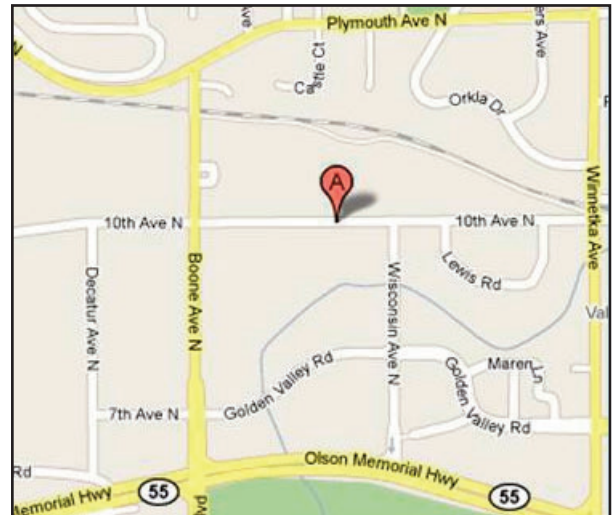
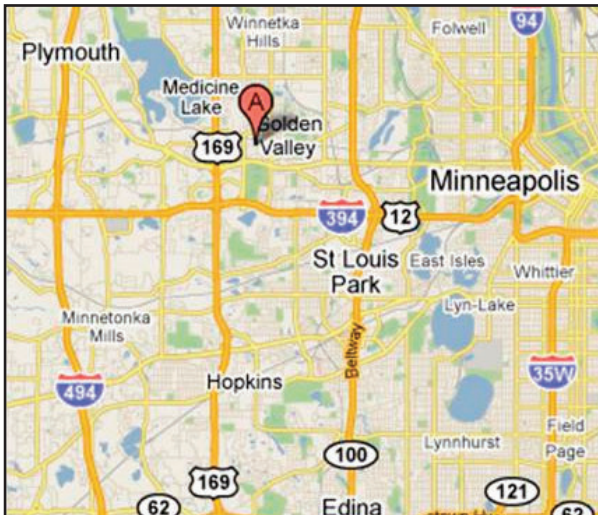
# CONTACT US

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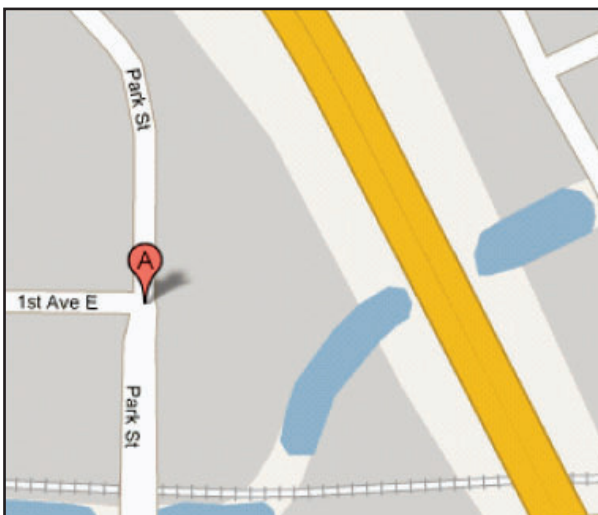
**8437 10th Ave North  
Golden Valley, MN 55427**

## CANADA

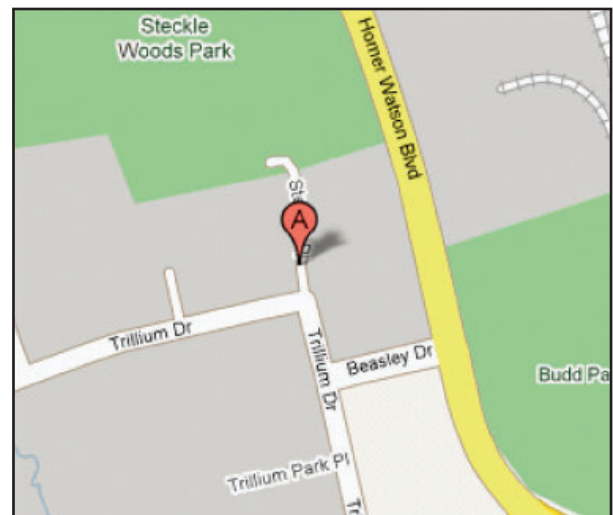
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