



CHLORKING®
INC.

SALINE CHLORINATION FOR COMMERCIAL POOLS



THE CHLORKING® SALINE CHLORINATION SYSTEM SPECIFICATIONS

1. The chemical sanitizer for the pool or spa shall be sodium hypochlorite, generated on site in an off line installation.
2. The ChlorKing® chlorination system shall be NSF International standard 50 listed, UL 1081 listed, and certified for use in pools and spas.
3. The electrical wiring, breakers, and disconnect boxes provided at the facility shall be UL listed components.
4. The chlorination system is charged by the addition of salt (sodium chloride) into the body of water to a concentration of 0.5% (5000ppm) saline (40lb's / 1000 gallons of water)
5. The chlorination system will produce from 1.25lbs to 25lbs per day (model specific) of equivalent chlorine as a dilute solution of sodium hypochlorite.

MODELS AVAILABLE:

MINI-1.25	(1.25lbs / day)
MINI-2.5	(2.5lbs / day)
CHLOR-1.5	(1.5lbs / day)
CHLOR-2.5	(2.5lbs / day)
CHLOR-3.5	(3.5lbs / day)
CHLOR-5.0	(5.0lbs / day)
CHLOR-7.5	(7.5lbs / day)
CHLOR-10	(10lbs / day)
CHLOR-15	(15lbs / day)
CHLOR-20	(20lbs / day)
CHLOR-25	(25lbs / day)

6. The chlorination system is capable of functioning in temperatures between 15C and 40C.
7. The chlorination system is capable of functioning with salt concentrations between 4000ppm and 6000ppm.
8. Chlorine delivery is controlled by an influent to effluent pressure drop of the pools filtration system (Plumbing option 1)
9. Chlorine delivery is controlled by a bypass side stream, plumbed into the return line, using a bypass valve to optimize flow. (Plumbing option 2)
10. The minimum amount of flow through the ChlorKing® cell is 20gpm. Flow switch is activated at 3gpm.

11. The maximum amount of pressure through the cell is 30psi per NSF International specifications.
12. The chlorination system shall be pre-mounted on an aluminum backboard with dimensions of:
ELECTRICAL – 42.5" x 16 / CELL HOUSING – 10" x 8".
13. The system shall be pre-wired, ready for field connection of power tied to the pool pump and control circuits. The plumbing of the cell shall be done at the time of the installation.
14. The ChlorKing® system shall be capable of satisfactory performance if installed as per the manufacturer's recommendations (reference the ChlorKing® installation manual). An authorized representative shall be located within a reasonable distance of the facility and shall be available to install and service the system as required.
15. The chlorination system shall be bonded via the bonding lug to the local common bonding grid. (ALL EQUIPMENT MUST BE BONDED) The bonding connector shall be conductively connected to the grounding means.
16. The ChlorKing® system shall have salt concentration displayed in PPM, measured using a toroidal probe. (No moving parts and no calibration needed)
17. The ChlorKing power supply shall be water cooled and have no fans.
18. The manufacturer warrants the electrical components of the ChlorKing® system to be free of defects for one year from date of installation.
19. The manufacturer warrants electrode plates of the ChlorKing® system for one year, and then prorated for one year after. (see actual warranty statement for details)
20. The manufacturer warrants assembly of electrical components and cell housings of the ChlorKing® system to be free of defects in workmanship for three years.
21. Technical support and equipment information is available at 800-536-8180

- ChlorKing® systems require 20gpm flow rate through the electrolytic cell to achieve rated chlorine production. At 10gpm a 10% reduction in chlorine production will be experienced.
- ChlorKing® systems have flow switches mounted at the inlet of the electrolytic cell, these flow switched will deactivate the system at 3gpm.

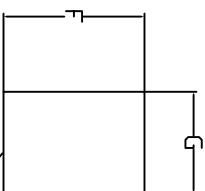
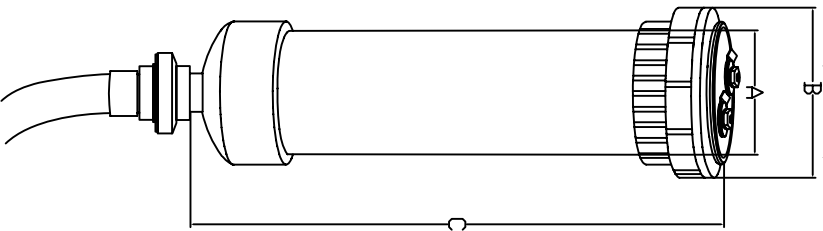
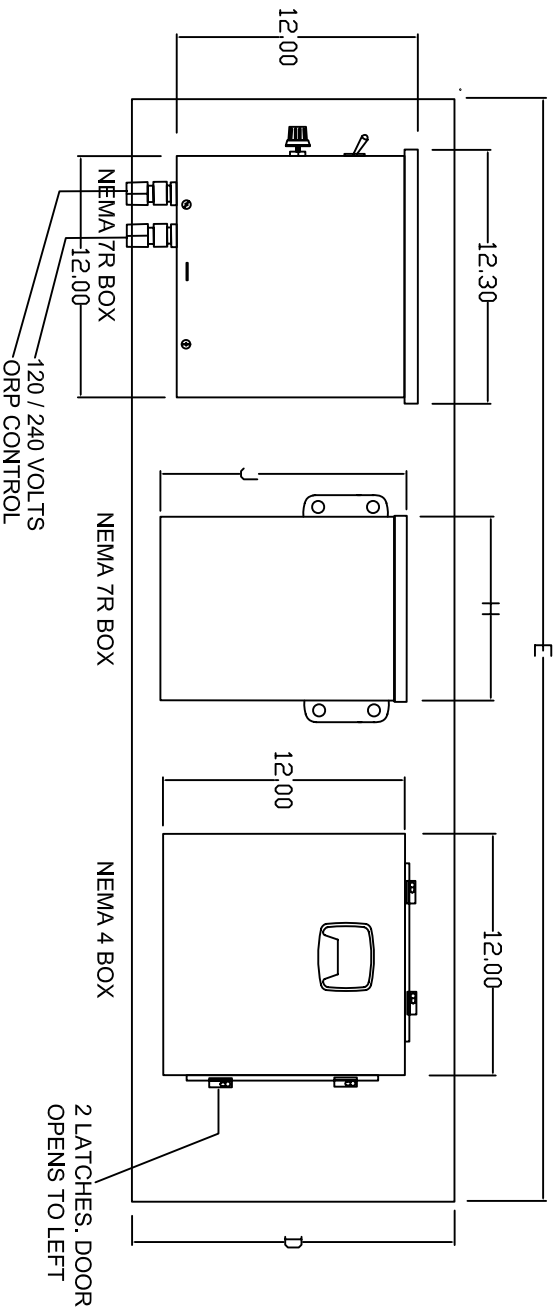
ELECTRICAL SPECIFICATIONS

MODEL:	MAX PRIMARY AC AMPS	SYSTEM INPUT VOLTAGE	BREAKER REQUIRED
MINI SERIES			
Mini-1.25	2.5	110v	10amp
Mini-2.0	3.5	110v	10amp
Mini-2.5	4.5	110v	10amp
CHLOR SERIES			
Chlor-1.5	6.9	110v	20amp
Chlor-2.5	9.9	110v	20amp
Chlor-3.5	13.8 / 6.9	110v / 220v	20amp
Chlor-5.0	9.9	110v	20amp
Chlor-7.5	6.9	208 – 240v	20amp
Chlor-10	9.9	208 – 240v	20amp
Chlor-15	14.9	208 – 240v	30amp
Chlor-20	18.5	208 – 240v	30amp
Chlor-25	20.9	208 – 240v	30amp

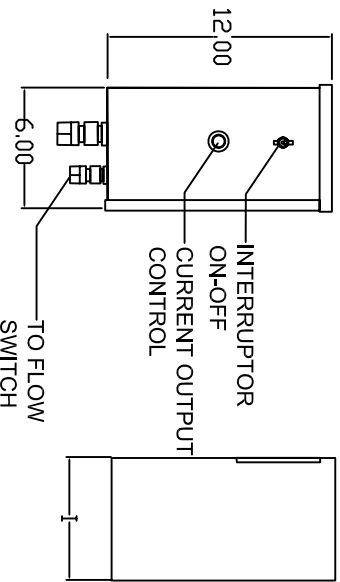
NOTES:
 For Dry Wall & wood studs use 2" #10 stainless self-tapping screws
 For Dry Wall & aluminium studs use 2" #10 stainless self-tapping screws
 For concrete use 2"x $\frac{1}{4}$ " Zamac Hammer Screws, mush head (Powers Fasteners). Use $\frac{1}{4}$ " drill bit
 Mounting Panels are not supplied with perforations for the mounting screws

All Dimensions in Inches

CELL SIZE												
A	2.5	3.5	5	7.5	10	15	20	25				
B	3	3	6	6	6	6	6	8	8			
C	7	7	11	11	11	11	11	13	13			
D	26	26	27	27	27	27	27	28	28			
ELECTRICAL BOARD												
D	16	16	16	16	16	20	20	20	20			
E	42.5	42.5	42.5	42.5	42.5	45	45	45	45			
CELL BOARD												
F	8	8	8	8	8	8	8	8	8			
G	5	5	10	10	10	10	10	10	10			
TRANSFORMER SIZE, KVA												
KVA	1.5	2	2	3	3	5	7.5	7.5				
Volt Input	120	120	120	240	240	240	240	240	240			
H	7	7	7	7	7	10	10	10	10			
I	6	6	6	6	6	8.5	8.5	8.5	8.5			
J	12	12	12	12	12	17	17	17	17			



MOUNTING BOARD FOR CELL TUBE

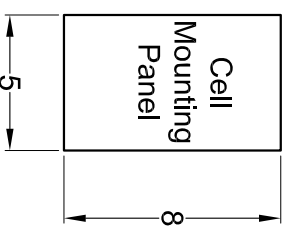
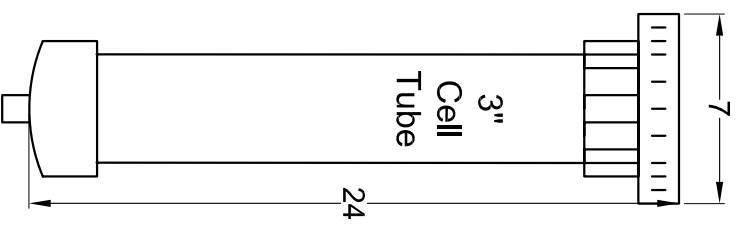
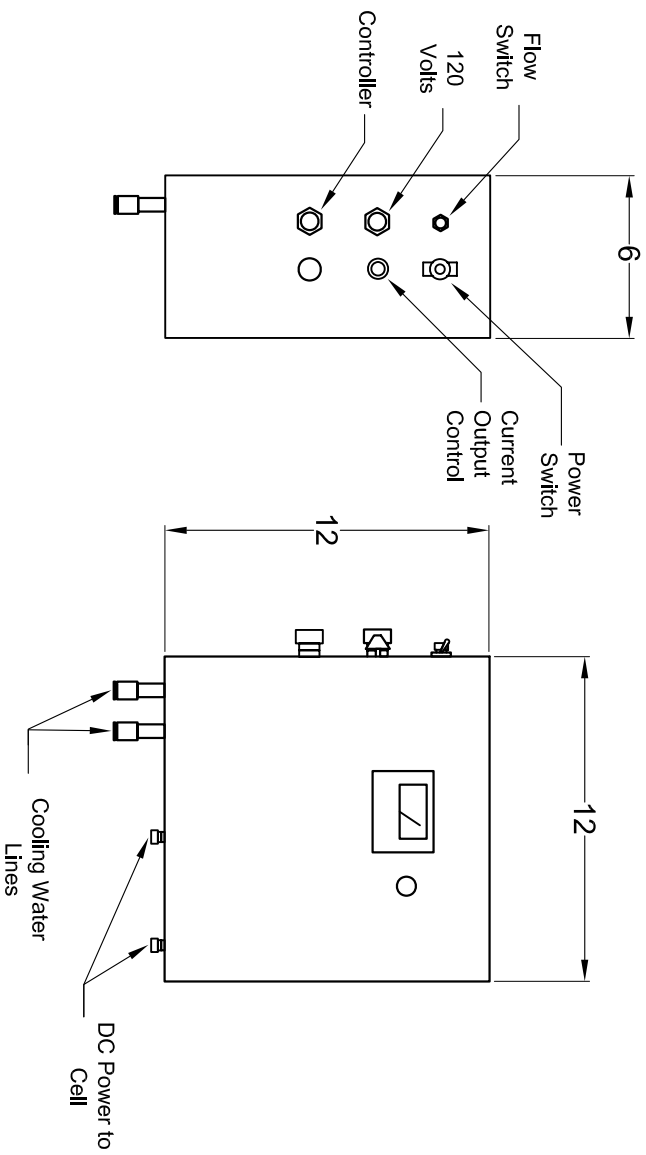


REV.	DATE	BY	CHK	APVD	REVISION DESCRIPTION
A	03/10/2005	TA			INITIAL RELEASE
B	03/18/2005	TA			SECONDARY RELEASE

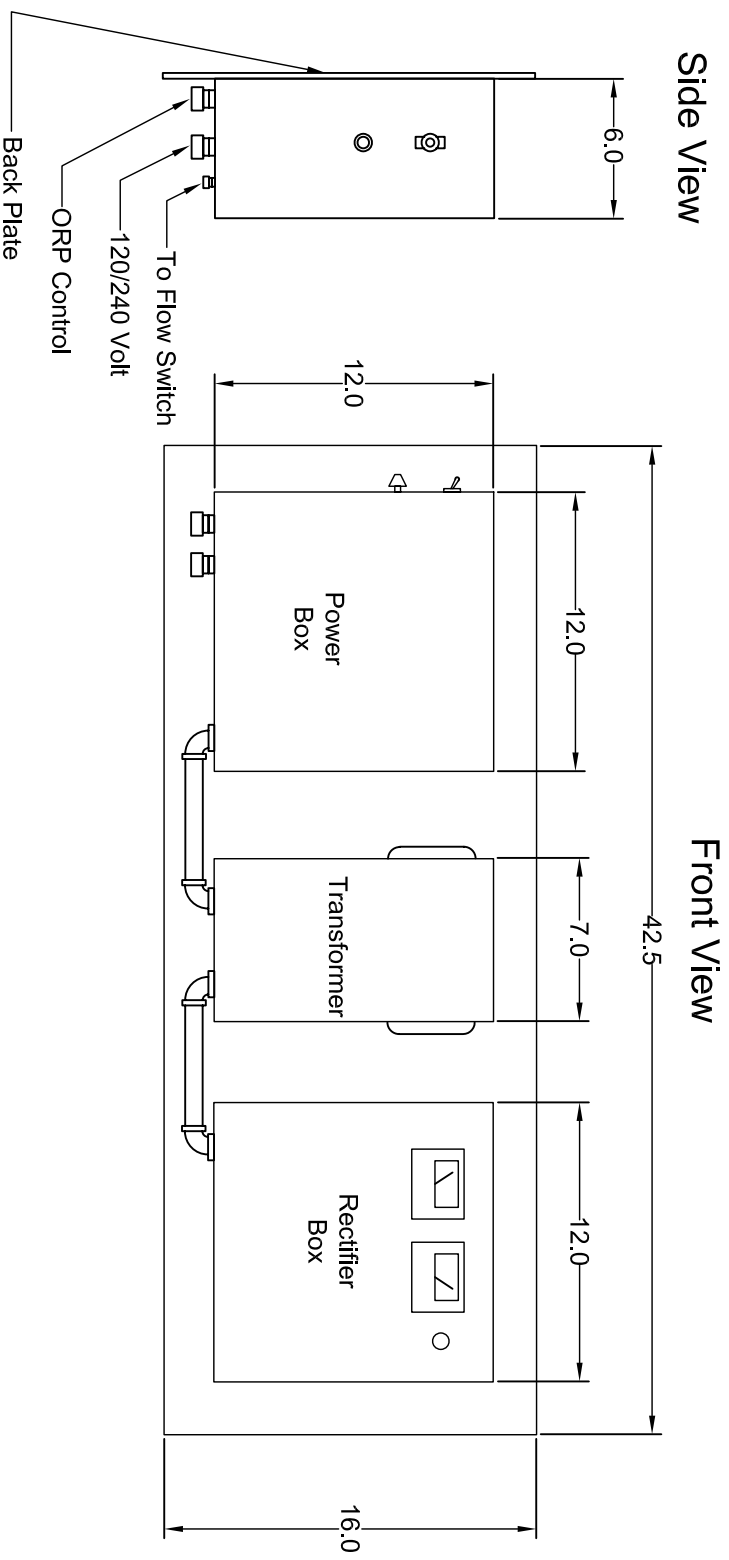
INTERPRET PER ANSI Y14.5 DO NOT SCALE DRAWING ALL DIMENSIONS IN INCHES UNLESS NOTED OTHERWISE TOLERANCES SHALL BE: XXX = ± 0.1 X = ± 0.1	CHLORKING, INC. 6767 PEACHTREE IND. BLVD NORCROSS, GA 30092 PH: 770-452-0330 FAX: 770-455-4214
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DVNL	THA	TITLE
CHKD	ENG	CHLORINE GENERATOR BY CHLORKING
DATE	03/10/05	DWG. 0002
ENGR		REV. A
SHEET	1 OF 1	SCALE: 1" = 1"
		DWG SIZE: B

Mini - Dimensions



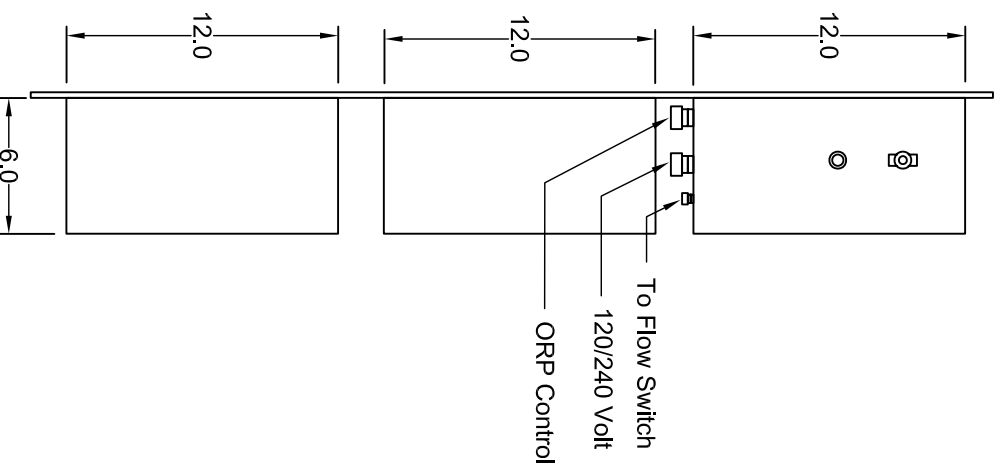
Power Supply Horizontal - Dimensions 2.5, 3.5, 5, 7.5, 10 Pound Systems



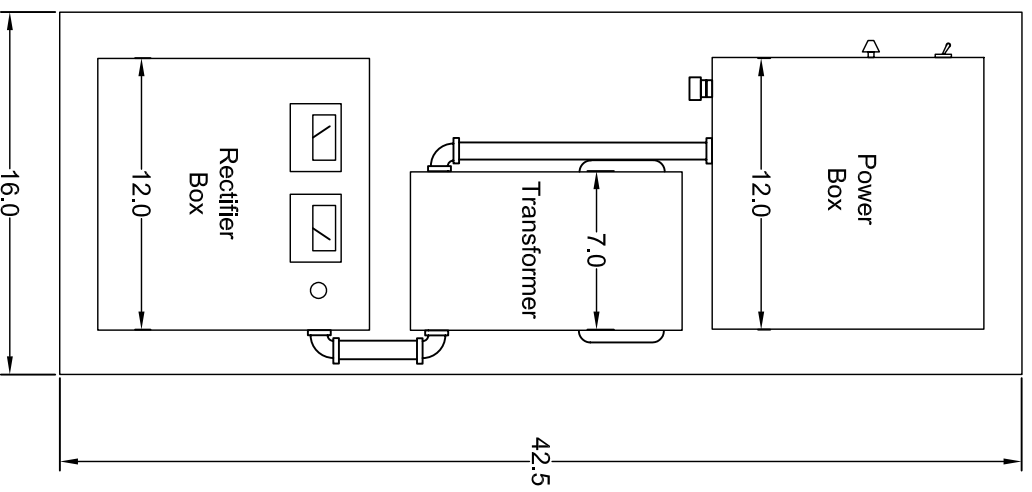
Power Supply - Vertical

2.5, 3.5, 5, 7.5, 10 Pound Systems

Side View

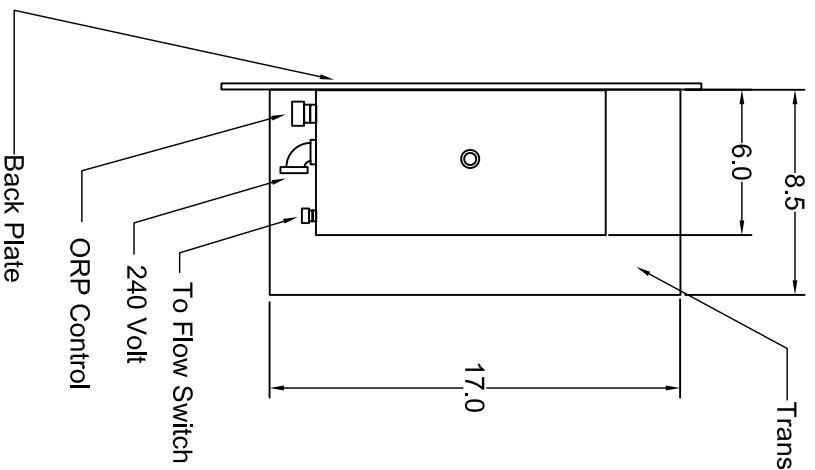


Front View

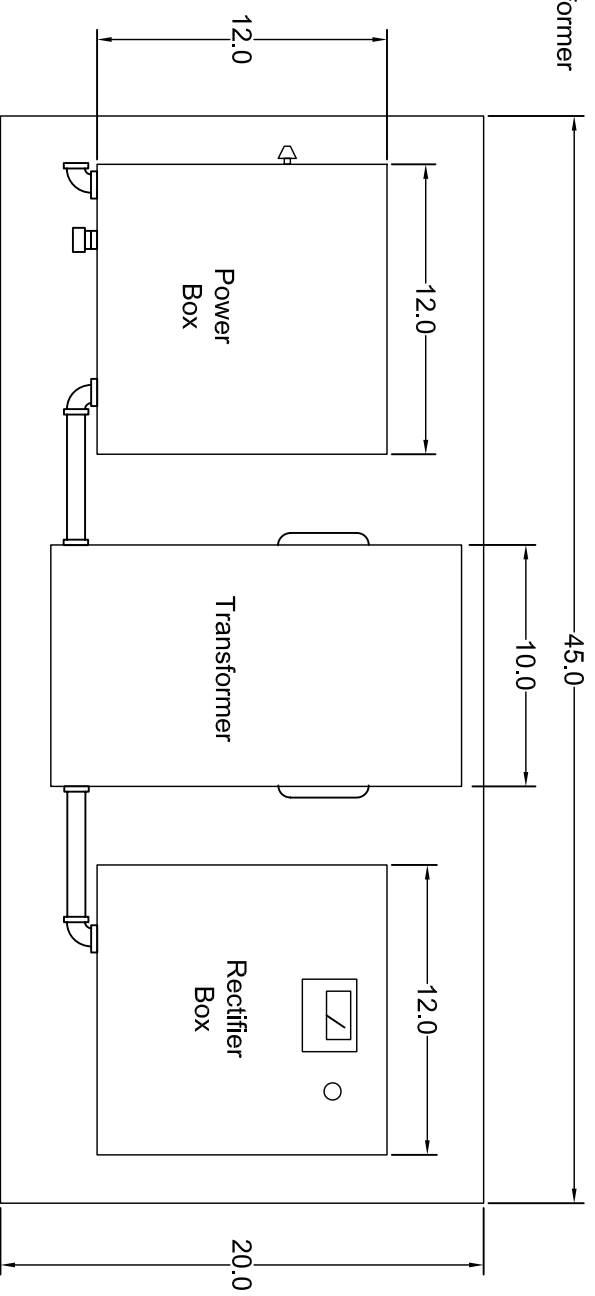


Power Supply - Dimensions 15 Pound & 25 Pound Systems

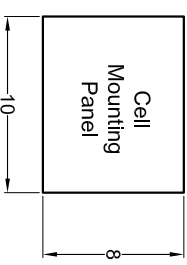
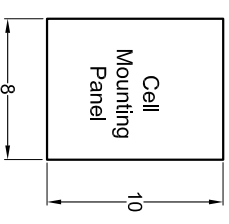
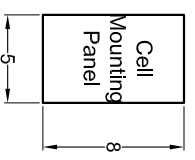
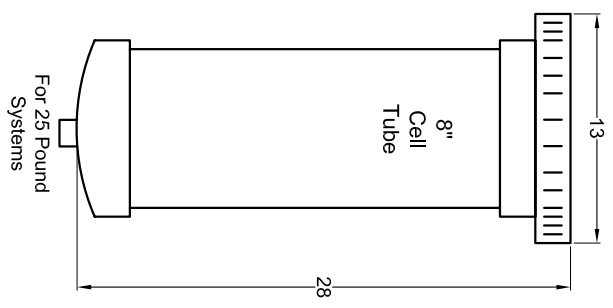
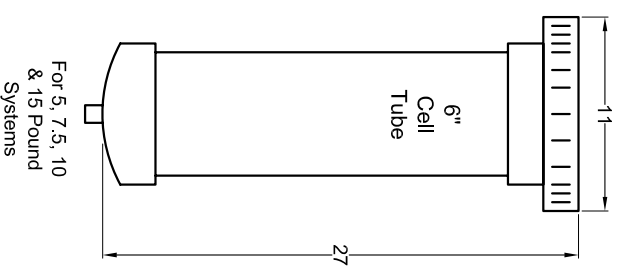
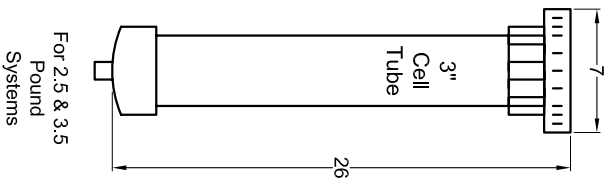
Side View



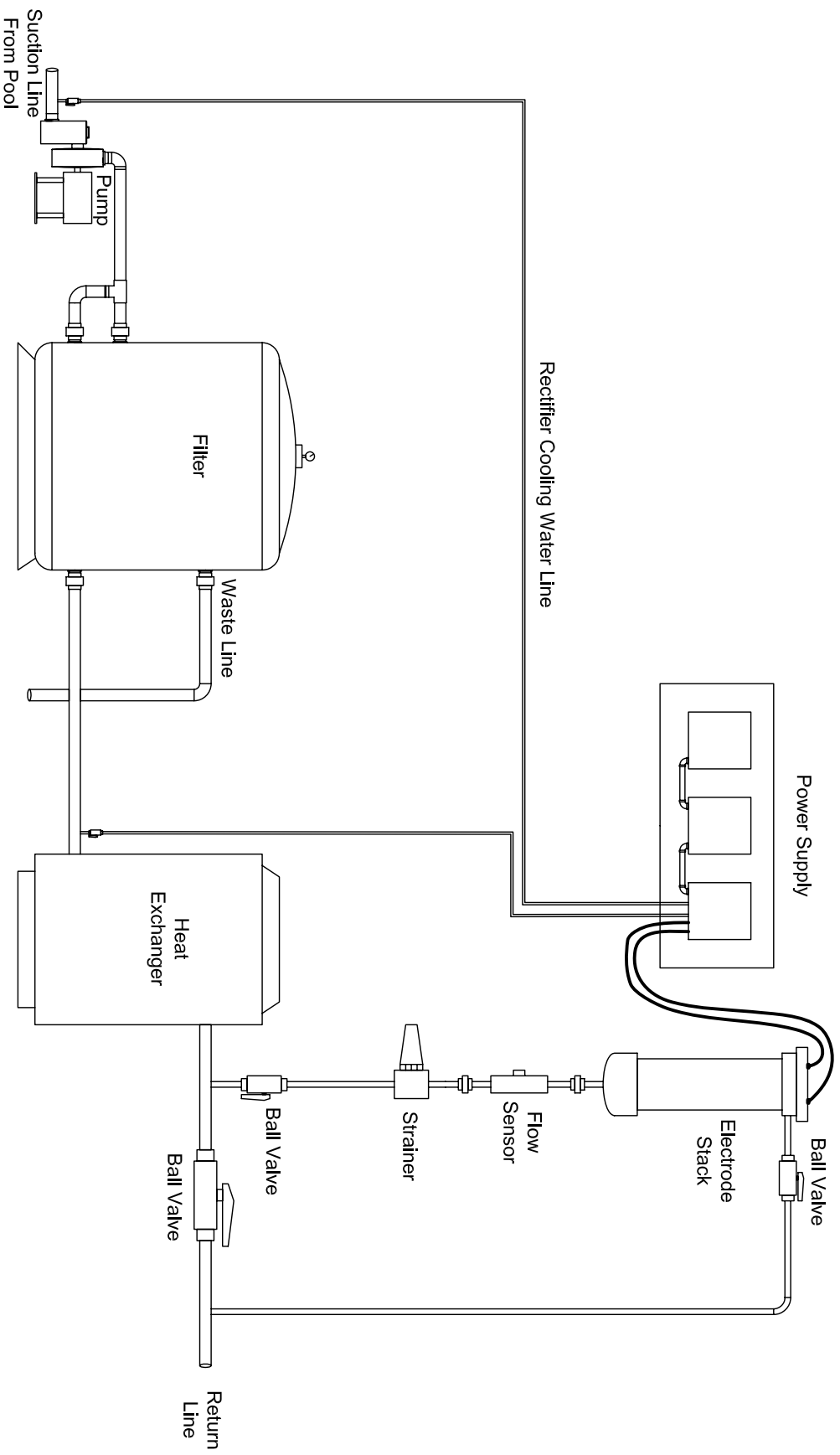
Front View



Cell Tube Dimensions



Bypass Manifold Plumbing



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