

Gro1 CO₂ REGULATOR



The Gro1 CO₂ Regulator is compatible with any 120 volt control device and includes a tank pressure gauge, solenoid valve, 6 foot power cable, and 16 feet of air line tubing.

WARNING: USING AND TRANSPORTING COMPRESSED GASSES CAN BE DANGEROUS. ALWAYS FOLLOW YOUR LOCAL REGULATIONS FOR TRANSPORTATION AND STORAGE OF COMPRESSED GASSES. CO₂ IS A NON-FLAMMABLE GAS, HOWEVER IT IS STORED AT EXTREMELY HIGH PRESSURES (UP TO 1500 PSI) SO ALWAYS USE CAUTION.

INSTALLATION:

1. Ensure that the tank is secure and cannot be tipped over. If the top of the cylinder is damaged it can result in gasses being released at dangerously high pressures.
2. Ensure that the CO₂ tank outlet is clean and free of debris. Insert one plastic washer between the regulator's valve connection and the tank. This washer helps to create a seal, and if it is not installed properly CO₂ will leak out of the tank.
3. Make sure the clear plastic flow gauge is upright and then proceed to tighten the brass nut with a large Crescent wrench. **DO NOT HOLD ON TO THE PLASTIC FLOW METER WHILE TIGHTENING THE BRASS NUT AS IT WILL PERMANENTLY BREAK THE SEAL.** Do not over-tighten the nut, and always use the correct size wrench - **DO NOT USE PLIERS.**
4. Connect the 1/4" tubing to the 1/4" hose barb on the bottom of the solenoid valve. Secure the other end of the tubing near the back of an oscillating fan using the included tie-wraps.
5. Open the valve on the CO₂ tank and check for leaks. Spraying the brass connections with glass cleaner or soapy water will make any leaks easily visible, as bubbles will appear.
6. If you are using a timer or controller, connect it to the regulator with the included 120 volt power cord.
7. Set the flow gauge by turning the black valve on the regulator counter-clockwise to open it and set the Cubic Feet per Hour to anywhere between 0.5 and 15. Opening the valve wider will cause the meter ball to exceed the printed scale. It is only recommended to do this if you are covering a large area and using a controller. Be careful not to freeze up the regulator with too much flow.

USING A CONTROLLER:

An automatic controller is the best tool to measure and adjust the CO₂ levels with your regulator. A controller will save you time and money by reducing wasted gas. Every setup is unique due to building conditions, air flow, fans, etc. and using a controller is the only way to accurately control the amount of CO₂ in your area.

Please visit WWW.DLWHOLESALE.COM to view our full line of controllers and products.

WITHOUT A CONTROLLER:

It is possible to APPROXIMATELY determine the amount of time it will take to increase the CO₂ level in your grow room based on the cubic feet in your area and the flow gauge setting on your regulator. Please keep in mind these times are approximate as each area has different variables, and the calculations are based on a starting CO₂ level of 300 PPM and the desired level of 1500 PPM.

To calculate the cubic feet in your area multiply the room's length by it's height and width.

Remember, the best way to accurately measure and control the CO₂ level in your room is to use a controller.

FLOW GAUGE SETTING

		0.5	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
AREA SIZE IN CUBIC FEET	50	7	4	2	1	1	X	X	X	X	X	X	X	X	X	X	X
	100	14	7	4	2	2	1	1	1	1	1	X	X	X	X	X	X
	200	29	14	7	5	4	3	2	2	2	2	1	1	X	X	X	X
	400	58	30	14	14	10	7	6	5	4	4	3	3	3	2	X	X
	600	87	43	22	14	11	9	7	6	5	5	4	4	4	3	3	X
	800	115	58	29	19	14	12	10	8	7	6	6	5	5	4	4	4
	1000	144	72	36	24	18	14	12	10	9	8	7	7	6	6	6	6
	1200	137	87	43	29	22	17	14	12	11	10	9	8	7	7	6	6
	1400	202	101	50	34	25	20	17	14	13	11	10	9	8	8	7	7
	1600	230	115	58	38	29	23	19	17	14	13	12	11	10	9	8	8
	1800	259	130	65	43	32	26	22	19	16	14	13	12	11	10	9	9
	2000	288	144	72	48	36	29	24	21	18	16	14	13	12	11	10	10

WARNING: NEVER ALLOW CO₂ LEVELS TO GET ABOVE 2500 PPM. LEVELS ABOVE 5000 PPM ARE EXTREMELY DANGEROUS

PRODUCT SPECIFICATIONS:

Main power voltage: 120 volts
 Temperature control range: 50-115°F
 Humidity control range: 20-80% with a 5% differential
 Relay operating life: 100,000 electrical
 Maximum amperage: 15 amps
 Temperature operating range: 32-120°
 Humidity operating range: 0-99%

DISTRIBUTED BY



DL WHOLESALE
WWW.DLWHOLESALE.COM