

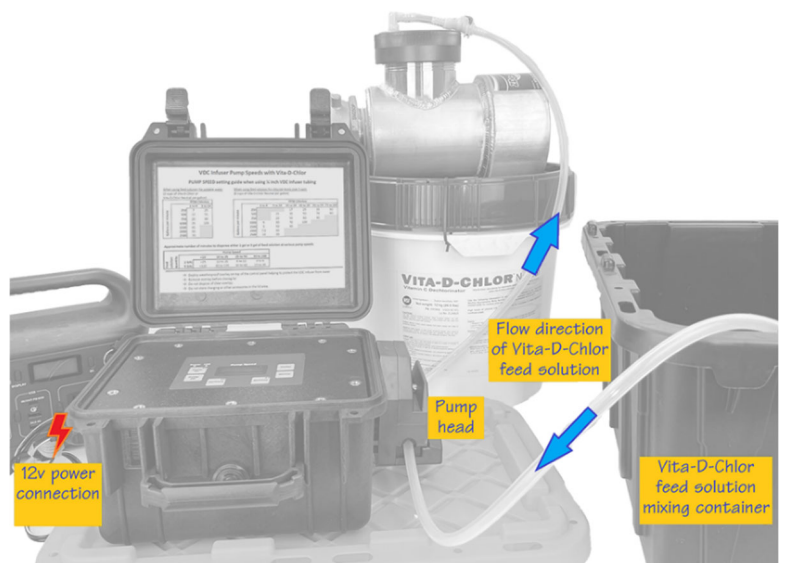
VDC INFUSER INSTRUCTIONS

VDC Infuser Parts List

- VDC Infuser Pump (with silicone panel protector)
- One ten-foot 12-volt power cord with male cigarette lighter plug at both ends
- 25 feet of ¼" Infuser Tubing with quick-connect insert fitting and brass fitting
- ONE connector with quick-connect fitting. This will be a NEMA Infuser Cap, a 3" PVC Infuser Cap, a 4" Camlock plug, or 2 1/2" swivel elbow.
- Chlorine test strips
- Measuring scoop
- Plastic tote that holds everything can double as a mixing tank

Basic Instructions:

- Check that you have all of the VDC Infuser parts, your 12 volt power source, your compatible tablet device or Infuser Elbow, and your Vita-D-Chlor Neutral
- Position your pump and power source away from the water flow. Neither are waterproof
- Mix your Vita-D-Chlor feed solution per the chart inside the pump cover
- Connect your diffuser or VDC Infuser Elbow to the hydrant
- If using a tablet diffuser, replace the cap or plug with the VDC Infuser cap or plug
- Connect the infuser tubing to the VDC Infuser cap, plug, or elbow
- Run the tubing from the diffuser, through the pump head, and to the feed solution.
 - *The solution flows through the pump from front to back (the handle side of the case to the hinge side). Make sure your components are oriented properly. See picture below.*
- Drop the brass-fitting end of the tubing into your feed solution.
- Make sure there are no kinks in the tubing.
- Connect the pump to your 12v power source with the supplied cable
- Turn on pump and set the pump speed in accordance with the chart inside the lid
- When the feed solution reaches the cap, start your flushing.
- Test your treated water.
- Adjust pump speed as necessary for maximum efficiency and to achieve complete dechlorination.
- Check your chlorine level frequently.



Additional information on back

Additional info

- When placing the tubing in the pump:
 - Open the Easy-Load pump head by moving the lever to the left side of the pump head.
 - Make sure there are no kinks
 - Lay the tubing in a straight path over the rollers
 - Slowly move the lever back to the right side, being careful not to cut the tube by the V's at each end of the Easy Load pump head.
 - To minimize roller wear and extend the life of the tubing, install a different portion of the tube in the pump head with each job.
- The VDC Infuser tubing has a barbed fitting at each end. The white plastic fitting connects to the feed tube in the VDC Infuser cap (or optional VDC Infuser elbows). The brass fitting is to weigh down the tubing in your feed solution.
- Tubing is supplied in 25 foot lengths. If a shorter length is appropriate for your job, you may want to cut the tubing & move the fittings as necessary. We estimate that 12 feet will be adequate for most applications. Some customers make a 10 foot tube and a 15 foot tube.

Feed solutions

- For flows under 2500 gpm and treating water with less than 5 ppm chlorine, feed solutions can be made with either Vita-D-Chlor or Vita-D-Chlor Neutral using 2 cups per gallon.
- For treating water with more than 5 ppm chlorine, Vita-D-Chlor Neutral is required. Make the solution using 8 cups per gallon.
- If you use the VDC Infuser carry tote to mix your feed solution you can measure your volume from the bottom of the tote. 1 gal = 2"; 2 gal = 3.5"; 3 gal = 5"; 4 gal = 6.5"; 5 gal = 8"
- Charts for setting the "Pump Speed" based on gallons per minute (GPM) flow and parts per million (PPM) of chlorine to be neutralized are inside the lid of the VDC Infuser.
 - The left chart is for flushing potable water, and uses two cups of either Vita-D-Chlor or Vita-D-Chlor Neutral per gallon of water in the feed solution.
 - The chart on the right is for higher levels of chlorine or high flows and the feed solution must be made with Vita-D-Chlor Neutral.
- A general reference indicating how long 1 gallon or 5 gallons of feed solution will last at various pump speeds is also provided.
- Additional quantities of feed solution can be made in a separate container and added to your working solution as needed without interrupting the flushing process.

- Inquire about High Flow tubing for applications with higher flows or chlorine levels.
- Inquire about using your VDC Infuser with Captor™.

VDC INFUSER PUMP SPEEDS

Pump speed setting guide for use with Vita-D-Chlor and ¼ inch VDC Infuser tubing

For chlorine levels over 5 ppm or higher flow rates
(Mix 8 cups of Vita-D-Chlor Neutral per gallon)

Use the pump speed setting from this chart:

		PPM Chlorine					
		1 - 4	5 - 14	15 - 34	35 - 54	55 - 74	75 - 100
Gallons per minute	250			17	25	35	50
	500		15	30	50	70	90
	750		20	50	80	90	
	1000	5	30	70	100		
	1500	5	50	90			
	2000	7.5	60				
	2500	10	90				

For neutralizing potable water
(Mix 2 cups of Vita-D-Chlor or Vita-D-Chlor Neutral per gallon)

Use the pump speed setting from this chart:

		PPM Chlorine	
		1 - 4	5 - 14
Gallons per minute	250	7	25
	500	12	55
	750	20	80
	1000	25	100
	1500	45	
	2000	55	
	2500	70	

Approximate time, in minutes, to empty a 1 gallon or 5 gallon volume at specific pump speeds

		Pump Speed									
		2.5	10	20	30	40	50	60	80	100	
Feed solution quantity	1 GAL	108	25	14	10	8	6	5	4	3	
	5 GAL	543	127	73	48	40	31	25	19	14	

The VDC Infuser bin is 7 gallons and can be used as your mixing and/or feed tank.

Gallons to Height in bin:

1 gal = 2" 4 gal = 6.5"
2 gal = 3.5" 5 gal = 8"
3 gal = 5"

⇒ Deploy weatherproof overlay on top of the control panel helping to protect the VDC Infuser from water *The VDC Infuser is not waterproof. Set the pump up outside the reach of the water flow.*

⇒ Remove overlay before closing lid
⇒ Do not dispose of clear overlay.
⇒ Do not store charging or other accessories in the lid area.



vDc INFUSER ACCESSORIES

We offer two VDC Infuser elbows for use with your VDC Infuser. The 4 1/2" elbow works with the pumper port on the hydrant. Both elbows give an unobstructed water flow from the hydrant and have the infusion point for your Vita-D-Chlor dechlorination solution.

Item 410453: 4 1/2" FNST VDC Infuser Elbow (shown on right)
 Item 410254: 2 1/2" FNST VDC Infuser Elbow (shown on left)

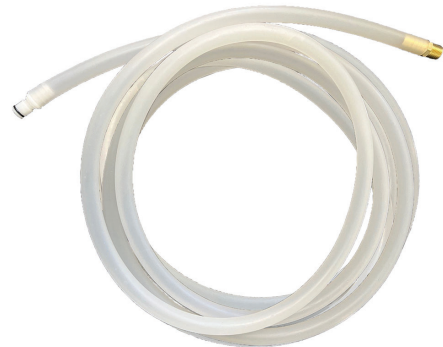


The VDC Infuser is supplied with 25 feet of 1/4" tubing. The charts in the unit that show the pump speed settings for flow and chlorine are intended for use with the 1/4" tubing. If you have higher chlorine levels or flow volumes than those covered by the chart, then our optional 3/8" tubing may be able to handle your job. Review the chart below to see if this option may work for you. As with the 1/4" size, this tubing includes the necessary fittings.

VDC Infuser pump speed settings for 3/8" tubing and feed solution made with 8 cups of Vita-D-Chlor Neutral per gallon

Item 810038: 25 feet of 3/8" VDC Infuser Tubing

3/8" TUBING PUMP SPEED SETTING			
Gallons per minute	PPM Chlorine		
		75 - 99	100 - 150
	250	25	40
500	45	65	
750	65	90	
1000	90		
1500			



Replacement Parts

Item Description

810200: VDC Infuser Cap for the ZDe-Chlorinator NEMA-100 & NEMA-200

810230: 3" PVC VDC Infuser Cap for the LPD-250 and similar devices

810100: 12V power cord with male cigarette plugs at each end

810014: 1/4" VDC Infuser Tubing, 25 feet, with weighted brass end & quick-connect fitting