

Guidance for Purchasing of New Vaccine Storage Unit



Step One: Select appropriate vaccine storage unit for specific vaccines (refrigerated or frozen).

- Ensure that the vaccine unit will reach the specific temperatures to safely store vaccines.
- Refrigerators and freezers typically used for vaccine storage are available in different grades (household and purpose-built) and types (stand—alone and combination refrigerator/freezer)

CDC Recommendations-Vaccine Storage Units

- Use of purpose-built units designed to either refrigerate or freeze
 - o Can be compact, under-the-counter style or large units
- If purpose-built stand-alone unit is <u>not available</u>, then stand-alone commercial or stand-alone household is acceptable.

Step Two: Install and set up unit per manufacturer guidance at provider site upon unit's arrival

Appropriate setup of vaccine storage units is critical

External Factors for Unit Set Up

- Ensure good air circulation around the outside of the storage unit
- Well ventilated room
- Leave space between unit, ceiling, and any wall
- O Do not block the cover of the motor compartment of unit
- Unit should be firm and level, with bottom of the unit above the floor
- O Unit door are to open and close smoothly and fits squarely aganist the body of the unit.
- O Unit works best within a indoor room at temps. are 20°C and 25°C (68°F and 77°F)
- Ensure unit is plugged into an electrical outlet in wall
 - (No outlets that can be tripped or switched off i.e. built in circuit switches (with reset buttons, power- strips, or outlets activated by wall switch)
- Mark electrical outlet "DO NOT UNPLUG" (contact Imz. Division for signage)

Internal Factors for Unit Set Up – See below vaccine unit set up guides.

<u>Step Three:</u> Begin monitoring temperatures with a Continuous Temperature Monitoring Device also known as a Digital Data Logger (DDL) that has a current and valid Certificate of Calibration and Testing.

- Install digital data logger per the manufacturer guidance for set up
- Review any training video or resources
- Install digital data logger buffered probe into the vaccine storage unit to allow it to adjust to temperature of the unit (30 minutes to 60 minutes)

Digital Data Logger Temperature Monitoring Settings

- Set temperature setting to Celsius
- Set the logging intervals to record every 15 minutes
- Set Lo/Hi temperature alarm limits for vaccines refrigerators and freezers (if DDL will not set at -50.1 °C set it to lowest temperature allowable for freezer)

	Settings	Refrigerator	Freezer
	LO	1.9°C	-50.1°C
	HI	8.1°C	-14.9°C

Alarms must be set to trigger at the 2nd consecutive 15-minute logging interval



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<u>Step Four:</u> Send following documentation to the Immunization Division Provider Operations Unit by via SIMON Helpdesk or email scvfc@dhec.sc.gov.

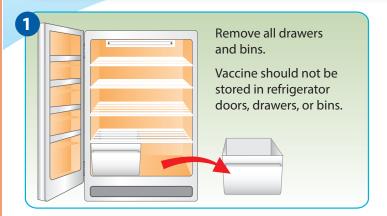
This information must be received prior to vaccine ordering privileges being approved.

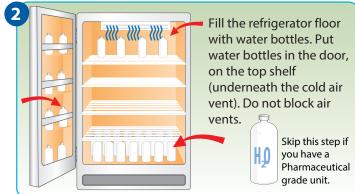
- VFC Providers must have two (2) to five (5) consecutive days of *in-range temperatures
 documented and provided to the VFC program prior to storing vaccines in a new vaccine storage
 unit.
 - *In range temperature for refrigerator must be between 2°C and 8°C (36°F and 46°F), for refrigerator with an average temperature of 5°C (41°F).
 - *In range temperature for the freezer must be -50°C and -15°C (-58°F and +5°F)
- Documentation of temperatures must be provided on the appropriate DHEC temperature logs prior to enrollment site visit
 - o DHEC 3265--South Carolina Freezer Temperature Log Celsius for Vaccine Storage Units
 - DHEC 3266 -South Carolina Refrigerator Temperature Log Celsius for Vaccine Storage Units
- Regional Site Reviewer will assist the provider with uploading temperature data into SIMON

Resource and Reference

- CDC's Vaccine Storage and Handling Toolkit_ https://www.cdc.gov/vaccines/hcp/admin/storage/toolkit/storage-handling-toolkit.pdf
- 2. All information must be entered into SIMON for VFC program approval and prior to vaccine ordering.

Preparing Refrigerators for Vaccine Storage







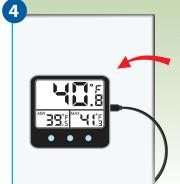
You'll need to set up and get familiar with your data logger before using to monitor temperatures.

Have a back-up data logger handy in case there's a problem with the one in the refrigerator.



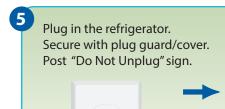
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Place the buffered probe in the center of the refrigerator near the vaccines.



Attach the digital display to the outside of the refrigerator, either on the door or on the side.

CURRENT, MIN and MAX temperatures must be visible without opening the storage unit door.







Set the refrigerator temperature.

If the refrigerator has a thermostat, set it at 5°C or 40°F.

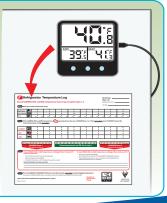
If it has a dial with a range of settings, set it to the middle of the range.

The next morning, check the temperature and adjust it until it stabilizes at approximately 5°C or

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Once the temperature has stabilized, record CURRENT, MIN, temperatures on the log twice a day.

Do not store vaccine in the refrigerator until the temperature is stable at around 5°Cor 40°F for 2-5 days.



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Preparing Freezers for Vaccine Storage

In an upright freezer, put a few cold packs in areas where vaccine cannot be stored, like the door, top shelf, and floor.

In a chest freezer, put a few cold packs in the basket at the top or on the floor.



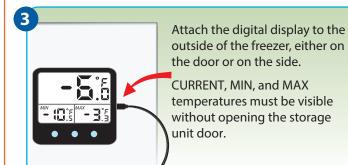
Upright freezer

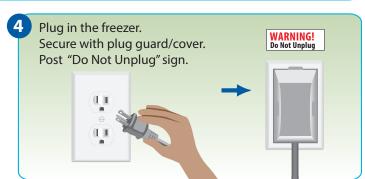
You'll need to set up and get familiar with your data logger before using it to monitor temperatures.

Have a back-up data logger handy in case there's a problem with the one in the freezer.

Place the buffered probe in the center of the freezer near vaccines.









If the freezer has a thermostat, set it below -15°C or 0°F.

If it has a dial with a range of settings, set it to the coldest.

Check the temperature the next morning. Adjust the thermostat until the temperature stabilizes below -15°C or 0°F.

Once the temperature has stabilized, record CURRENT, MIN and MAX,temperatures on the log twice a day.

Do not store vaccine in the freezer until the temperature stays below -15°C or 0°F for 3-5 days.

