

Filter Replacement

Filters for school year 2025-2026

Filters are on a 90 day cycle*

MERV 13 Filters**

*HVAC days are calculated due to air filtration with the shutdown of HVAC units on weekends and holidays.

**Manufacturer has recommended the MERV 13 filters for proper filtration for COVID-19

***All maintenance staff install filters due to limited work days during breaks.

Filter Install Date	Filtration Days
August 27th, 2025	90 days
January 2nd, 2026	90 days
May 8th, 2026	90 days
August 7th 2026	90 days
December 11th, 2026	90 days

Average classrooms range roughly at 1000 sq feet with 10' ceilings here at the RBUESD, this equals 10,000 cu ft of air. On the average, our HVAC system pulls 2200 cfm (cubic feet per minute) through the unit. This means every 4.5 minutes the entire air is changed. Every hour there will be 13.3 full room air exchanges. Every cubic foot of air is being passed through a MERV 13 air filter 13.3 times.

If a personal air purifier was to be placed in the room in addition to the districts current HVAC system by a staff member the average cost of a unit that would make any significant impact with air exchange would roughly be \$650 plus \$85-\$100 x 2 for MERV 13 filters that would do 1500 sq ft room with 8' ceiling. These units only do 350 cfm. An air exchange on this model, that would be used in 1000 sq ft with a 10' ceiling, would be roughly 35 minutes. Which is the same space as our classrooms. That equals 1.7 air exchanges in one hour.

If the use of both - District HVAC system and a personal air purifier were used, the air exchange rate would only decrease from 4.5 minutes down to 4 minutes. Our current HVAC system is also able to bring in fresh air to the fullest extent possible.

DISCLAIMER: The provided HVAC numbers reflect estimates for the district as a whole. Each classroom and HVAC system may differ slightly depending on age of the unit as well as the exact cubic air space. The air exchange rates were provided by our local HVAC vendor. The MERV 13 air filters provided are suggested by our HVAC supplier to be changed every 90 days of use. Filter change dates are subject to the amount of classroom use, weekends and holidays are calculated in the filtration schedule. This may adjust the install date.