Filter Order & Replacement Filters for School Year 20-21 Filters are on a 90 day cycle * MERV 13 Filters **		Order Placed	Install Filter Dates	Filtration Days	
:	20-Jul	July 30,2020	Aug. 17, 2020 - Aug. 21, 2020	Done	*47 days
Oct. 18, 2020 Filters replaced due to Unhealthy Air Quality before the startup of school on Oct. 19, 2020					
20	0-Oct.	Oct. 1, 2020	Dec. 28th- Dec. 31st	Done	*40 days
21	- Jan.	Jan. 4, 2021	April 5, 2021 - April 9, 2021	Scheduled	* 87 days
2'	1-May	May 3, 2021	June 7, 2021 - June 11, 2021	Scheduled	* 56 days
21	I-Aug.	July 1, 2021	Aug. 1, 2021 - Aug. 6, 2021	Scheduled	*56 days

* HVAC days are calculated due to air filtraition with the shut down of HVAC Units every Sunday and Holidays

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

*** All Maintenance staff installing filters due to limited work days for holiday week.

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

DISCLAIMER: These numbers best on 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.

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 x2 for merv 13 filters that would do 1500 sqft room with 8' ceiling. These units only do 350cfm. An air exchange on this model that would be used in 1000 sqft with 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 extent as possible.

Sites	Filter Per Site
Bidwell	44
Jackson	72
Metteer	82
Vista	57