

# SMART CLEANING PROTOCOLS AND ENHANCED SANITATION MEASURES (COVID-19) SEPTEMBER 2, 2020



# INITIAL IMPACTS OF COVID-19

- In March 2020, Health Officials in Marin and Sonoma County issued Shelter-in-Place orders due to COVID-19.
- Shelter-in-Place orders have had profound effect on the transit industry.
- Public Transportation is one of the essential services operating during Coronavirus pandemic and is vital to the reopening of the economy.
- SMART has been operating under enhanced cleaning protocols to ensure that our essential public transit service is a clean and comfortable way to travel and to provide a healthy and sanitized environment for our passengers and staff.

# PREVENTATIVE ACTIONS

- SMART has implemented multiple measures to prevent and limit the spread of COVID-19 including:
  - » Installing hand sanitizer stations throughout the railcars
  - » Posting local Health Official guidelines
  - » Increasing cleaning of the vehicles from once daily to twice daily
  - » Requiring use of facial covering by staff and passengers
  - » Adding the usage of electrostatic sanitizers to the vehicle cleaning procedures
  - » Upgrading the onboard air circulation system including:
    - Upgrading the onboard recirculation filters
    - Implementing UV sanitizers for circulating air

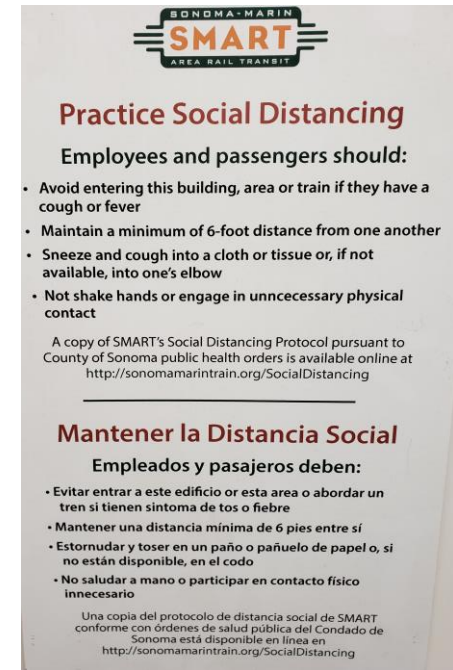
# AVAILABILITY OF HANDWASHING

**Handwashing is one of the most effective ways of preventing the spread of diseases.** The Center for Disease Control and Prevention (CDC) recommends washing your hands thoroughly and often. SMART has restroom facilities on each train enabling passengers to wash their hands as frequently as possible.



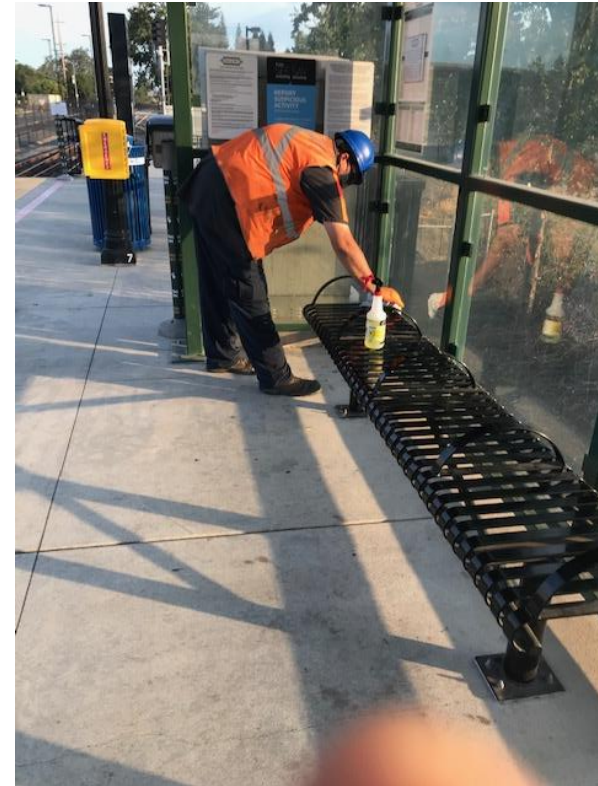
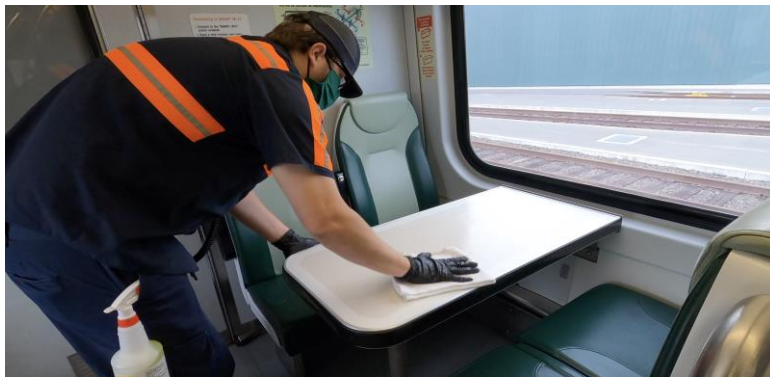
# HAND SANITIZERS AND HEALTH OFFICIAL GUIDELINES

SMART has installed hand sanitizers and signage outlining social distancing protocols and local health orders on all trains and at other SMART facilities to help prevent the spread of germs.



# INCREASED CLEANING

SMART cleans and sanitizes its fleet and stations **2X per day** using products on the Environmental Protection Agency approved for use against COVID-19



# SMART SUPPLIED FACIAL COVERINGS

SMART's Conductors have been supplying facial coverings to any passenger onboard who does not have one in compliance with Health Officials protocols.



# ELECTROSTATIC SANITIZERS

In addition to the cleaning of the Diesel Multiple Units 2X a day by our Vehicle Maintenance Team:

- SMART uses an electrostatic application system which offers an increased level of surface disinfection.
- SMART will also be providing hand sanitizer towelettes upon request to passengers which will allow them to wipe their hands, tables, or handrails if they choose.

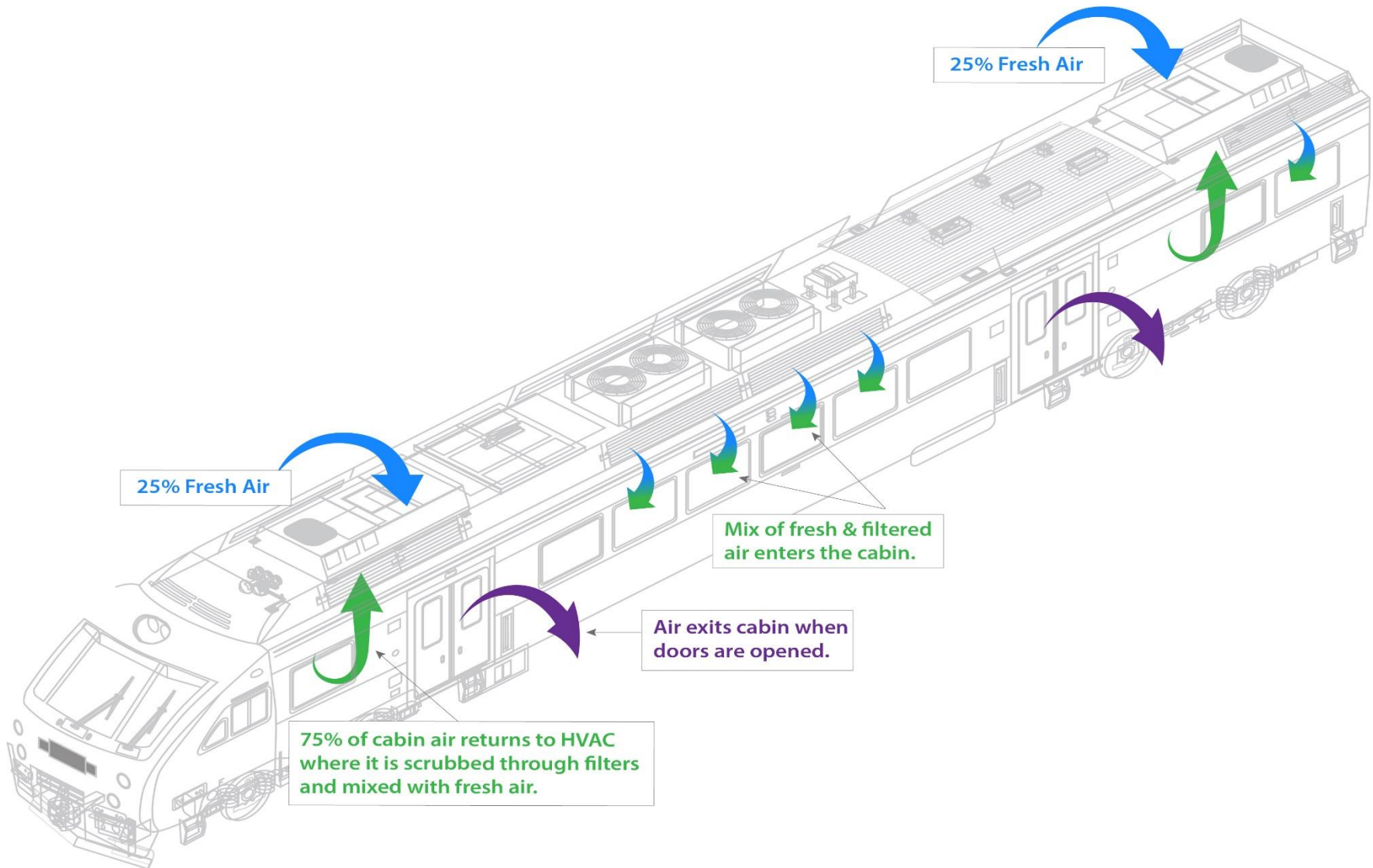


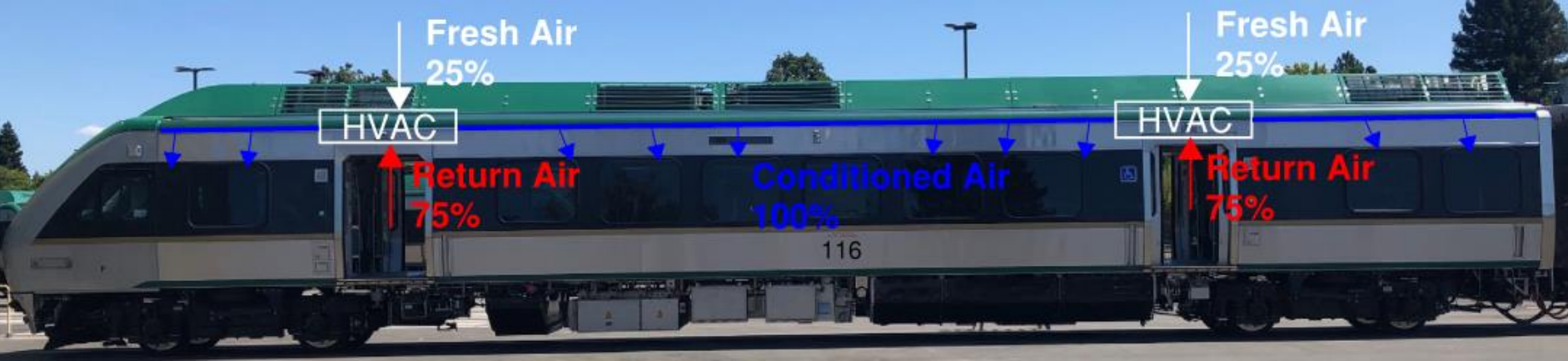


# ONBOARD HVAC OPERATION

- Each of our trains have 2 Heating, Ventilation, Air Conditioning (HVAC) units.
- These units each pull in 25% of their air supply from outside (fresh air) and 75% of their air from the inside (recirculated/filtered).
- This air is mixed and released throughout the car length through overhead vents.
- SMART's HVAC units replace the air in the car with filtered/fresh roughly every 1 minute and 20 seconds. They also entirely replace the air in the car with fresh outside air every 5 minutes and 20 seconds.

# ONBOARD HVAC OPERATION





# AIR FILTER UPGRADE

- Filters are rated by their minimum efficiency reporting value (MERV)
- SMART is upgrading all onboard filters to MERV-13, a new expert recommendations.

# ADDING UV SANITIZATION TO ONBOARD HVAC

- Ultraviolet light (UV) has been found to have a germicidal effect on airborne virus' causing cellular damage and inhibiting a virus' ability to replicate itself
- SMART is implementing this technology within the existing HVAC system
- By implementing UV light within the HVAC system, all air recirculated through the car will receive the UV treatment prior to being released back into the car



UV lamps are a common upgrade to at home HVAC systems and would provide a long lasting upgrade protecting SMART's passenger's from future virus' and bacteria

# SAFETY IS OUR PRIMARY GOAL

- SMART recognizes that our passengers and employees safety is paramount.
- SMART has been and will continue to implement the most up to date technologies and best practices to provide the community with a safe high quality transportation option.