

# GSEA NJSU A Union of Professionals

# How to Use Ventilation to Protect the School Community

# **Poll #1 Where Are You From?**



Long Island/ NYC Metro Area



**Lower Hudson Valley** 



Eastern New York/ Capital Region/ Adirondack North Country



**Central New York/Southern Tier/ Central North Country** 



**Western New York** 



# Agenda



**Introductions** 



Heating, Ventilation and Air Conditioning (HVAC) Systems



**HVAC Information Checklist and L/M Meeting Planner** 



**Union HVAC Strategy and Action** 



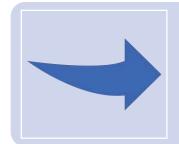
**CSEA and NYSUT Resources** 



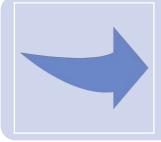
**Questions and Union OSH Staff** 



### **Poll #2 Is Your Ventilation System Adequate?**



Yes

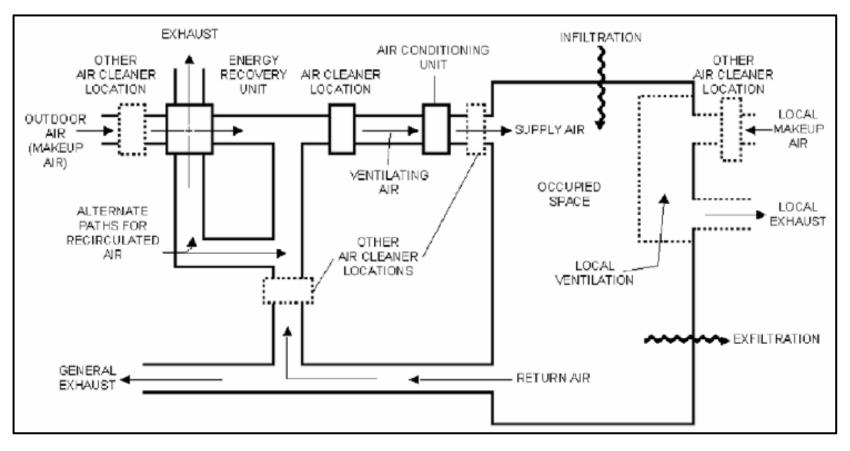


No



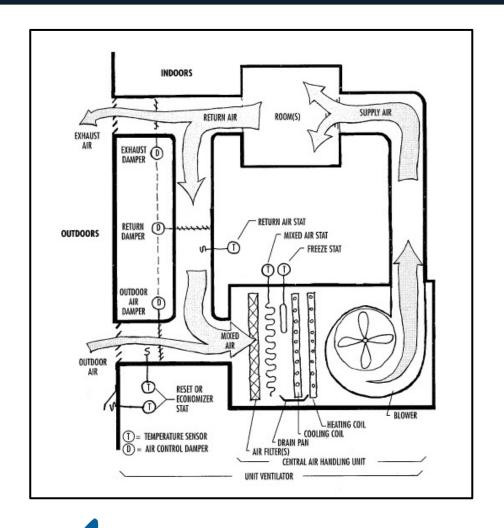
I Don't Know





(diagram courtesy of CDC)







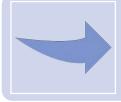
# **Poll #3 Does Your School Utilize:**



A Centralized HVAC System



**Wall Mounted Units** 



**A Combination of Both** 



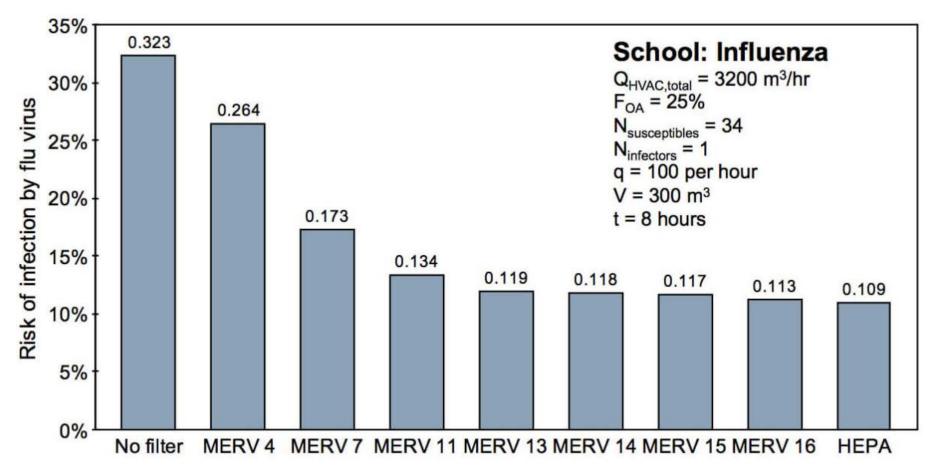
I Don't Know



MERV Rating	Average Particle Size Efficiency in Microns
1-4	3.0 - 10.0 less than 20%
6	3.0 - 10.0 49.9%
8	3.0 - 10.0 84.9%
10	1.0 - 3.0 50% - 64.9%, 3.0 - 10.0 85% or greater
12	1.0 - 3.0 80% - 89.9%, 3.0 - 10.0 90% or greater
14	0.3 - 1.0 75% - 84%, 1.0 - 3.0 90% or greater
16	0.3 - 1.0 75% or greater

(chart courtesy of EPA)





(Source: Wells-Riley & HVAC Filtration for infectious airborne aerosols, NAFA Foundation Report)



### Portable High Efficiency Particulate Air (HEPA) Filtration Unit:

Uses HEPA filter (99.97% efficient at 0.3 microns) and fan

Rated to cover square footage of floor space

Work best in a closed room

Place to push filtered air toward occupants



**Uses UVC lamp and fan** 

Located on the floor or ceiling

Must have air residence time to be effective

### **Combination Units**

**Provides both HEPA filtration and UV treatment** 







# **Ventilation Mandatory Requirements**



Maintain adequate, code required ventilation (natural or mechanical) as designed.



If other air cleaning equipment is proposed, submit to OFP for review and approval.



Districts and schools are encouraged to increase the fresh air ventilation rate to the extent possible to aid in maintaining a healthy indoor air quality.



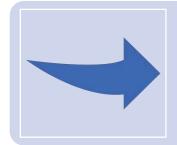
SED recognizes there are many different types of ventilation systems that may be limited for increasing ventilation of outside air due to available heat or fan/relief airflow capacity.



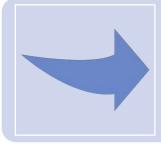
Schools may consider installing a higher efficiency filter. A higher efficiency filter may require a larger filter housing and will create greater resistance to airflow, and the fan and HVAC system may require rebalancing to maintain the code required ventilation rate.



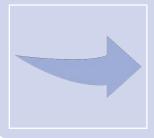
### Poll #4 Has Your School Upgraded Their Filters?



Yes



No



I Don't Know



# **HVAC Strategy and Actions**



(diagram courtesy of EPA)



# Commissioner's Reg. 8 NYCRR 155



**Health and Safety Committees** 



**Building Condition Surveys** 



**Annual Visual Inspection Reports** 



**Health and Safety Complaints** 



# **Enforcement**

- Occupational Safety and Health Administration
- NYS Department of Labor's Public Employee Safety and Health Bureau
- NYS Department of Labor page for "Complaints Related to COVID-19 Regulations" <a href="https://labor.ny.gov/workerprotection/laborstandards/coronavirus-complaints.shtm">https://labor.ny.gov/workerprotection/laborstandards/coronavirus-complaints.shtm</a>



# HVAC Checklist and L/M Planner

# Questions to Ask and Verify About Your Building Ventilation



### **CSEA Resources**

### www.cseany.org

### **CSEA Canary on:**







### **CSEA OSH Specialists**

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# **NYSUT Resources**

### **NYSUT Resources**

www.nysut.org/reopening

**How to Organize your Safety and Health Committee** 

https://www.nysut.org/news/2020/july/health-and-safety-committee

### **Veronica Foley**

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# **Other Resources**

### **EPA: Creating Health Indoor Air Quality in Schools**

https://www.epa.gov/iaq-schools

# New York State Education Department: Building Condition Surveys and Annual Visual Inspections

http://www.p12.nysed.gov/facplan/BldgCondSurv.htm

### **New York State Department of Health**

https://www.governor.ny.gov/sites/governor.ny.gov/files/atoms/files/Pre-K\_to\_Grade\_12\_Schools\_MasterGuidence.pdf

### New York State Education Department Reopening Guidance

http://www.nysed.gov/common/nysed/files/programs/reopening-schools/nys-p12-school-reopening-guidance.pdf



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# Thank You For Attending!

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