

STATE HOUSE MECHANICAL SYSTEMS



CURRENT STATE



1970's

1980's

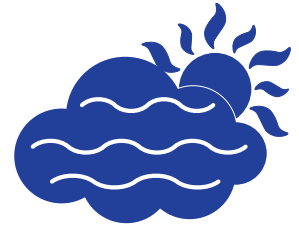
1990's

Age of air handler units



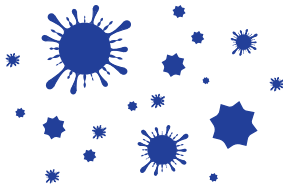
Overall System
Conditions:
FAIR

75% of units are beyond
the end of their useful life



Current design unable to
manage summertime
humidity or maintain
winter comfort

THE COST OF MANAGING HUMIDITY



\$500,000

Spent in 2018 to
remediate mold



\$77,000

Increased operational
costs in 2019



52 Dehumidifiers
deployed, at the cost of
\$33,690, consuming
\$17,000/yr in electricity



32

Staff-hours per week
at the cost of \$26,000

FUTURE STATE



\$3,000,000

Projected cost to install
a new system
(FY 2020 Capital Bill request)



Benefits

Better indoor air quality
Preserves historic furnishings,
precious artifacts, and art
collections

Other Advantages

\$26,000 estimated first-year
labor savings
Increased efficiency of new
mechanical equipment
Potential for an on-site wood
pellet boiler to assist with
summer dehumidification