



Clean Climate
Technologies Inc.



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Clean Air



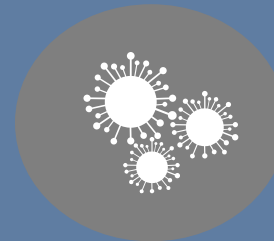
Why invest in Indoor **Air Quality?**



OFFER PEACE OF MIND



EFFICIENCY SAVINGS



MITIGATE AIRBORNE TRANSMISSION



AVOID FORCED CLOSURES



INCREASE PRODUCTIVITY

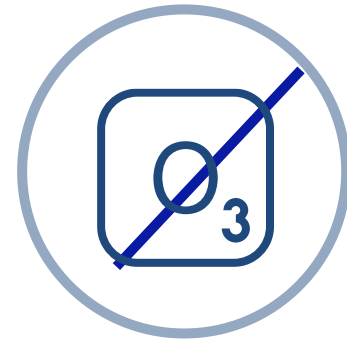
Electrostatic Filters

Why Electrostatic?



ENHANCED INDOOR AIR QUALITY

Captures harmful, airborne micro-particulates that are 40x smaller than traditional filters using active polarization.



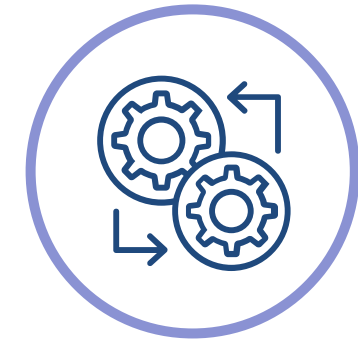
NO BYPRODUCTS PRODUCED

Carb 867 Certified & UL2998 Compliant. Does not produce harmful by-products such as ozone.



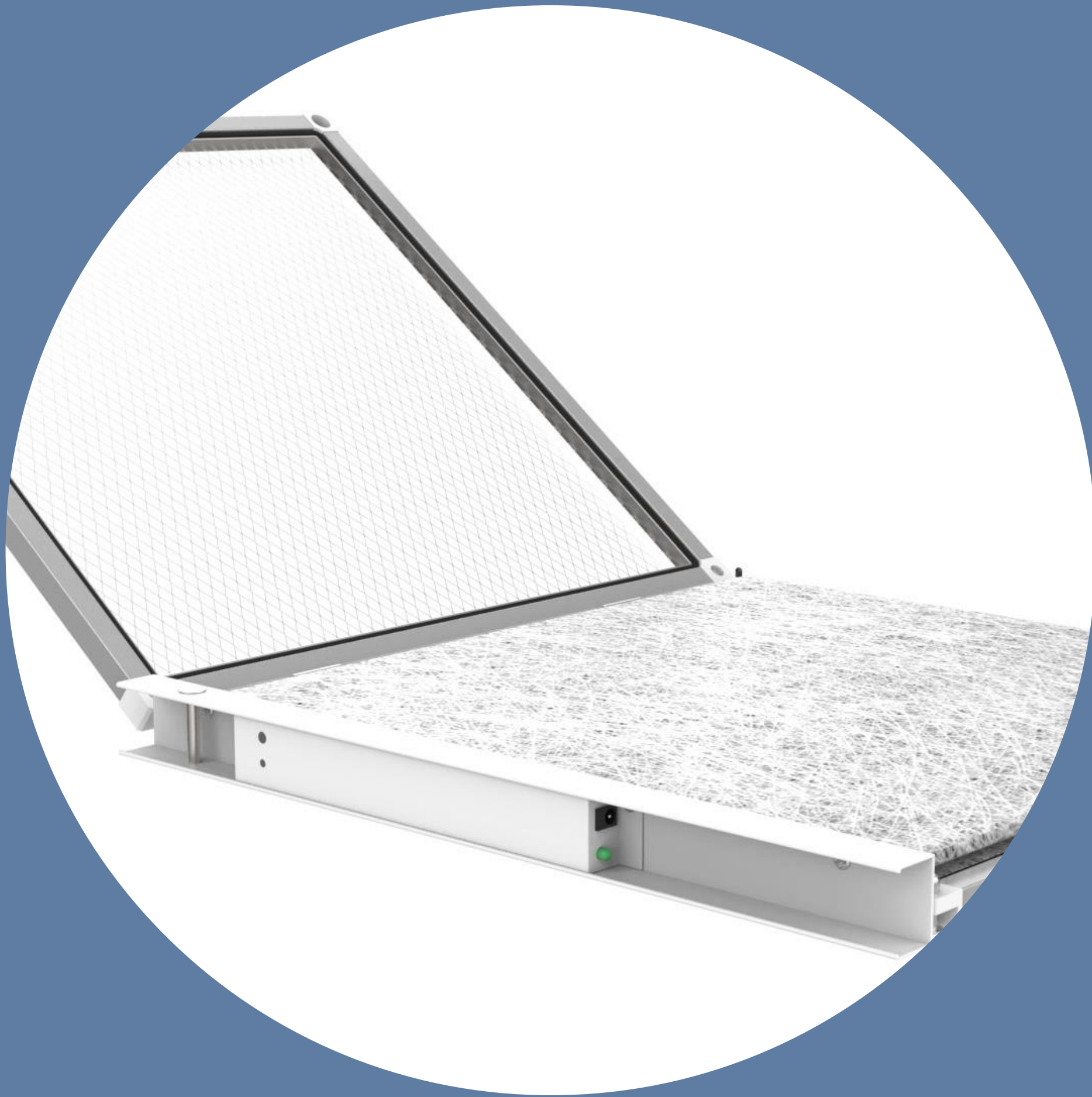
REDUCE ENERGY COSTS & CONSUMPTION

Lowering energy consumption by 5-10%, lasting up to 2x longer, are up to 4x less restrictive than standard filters, and are made up of 70% sustainable material.



SEAMLESS INTEGRATION

Guaranteed to fit your existing HVAC system. Designed to fit all commercial building applications and available in all standard & non-standard sizes.



ELECTROSTATIC FILTER

Commercial

1" & 2"

ELECTROSTATIC FILTER

1" COMMERCIAL



- **ENERGY & COST SAVINGS**
- **ZERO OZONE GENERATED**
- **SEAMLESS INTEGRATION**
- **ENHANCED INDOOR AIR QUALITY**

TECHNICAL SPECIFICATIONS

PRESSURE DROP	0.13 i.w.c
VOC REDUCTION	46% in 48 hrs.
FILTRATION PERFORMANCE	0.007 microns
ENERGY SAVINGS	5-10%
WEIGHT	0.4 lbs
WIRELESS	802.11 B/G/N
COLOUR	White / Metallic
EMISSIONS	No Ozone Generated
CONTROL	BACnet Integration (OPTIONAL)
HOUSING MATERIAL	Aluminum and Plastic
FILTER PAD MATERIAL	Breathable, lofted glass fibre
DIMENSIONS	Standard 1" and 2"
CERTIFICATIONS	CSA and FCC Approved

PRODUCT FEATURES

BREATHABLE FILTER MATERIAL

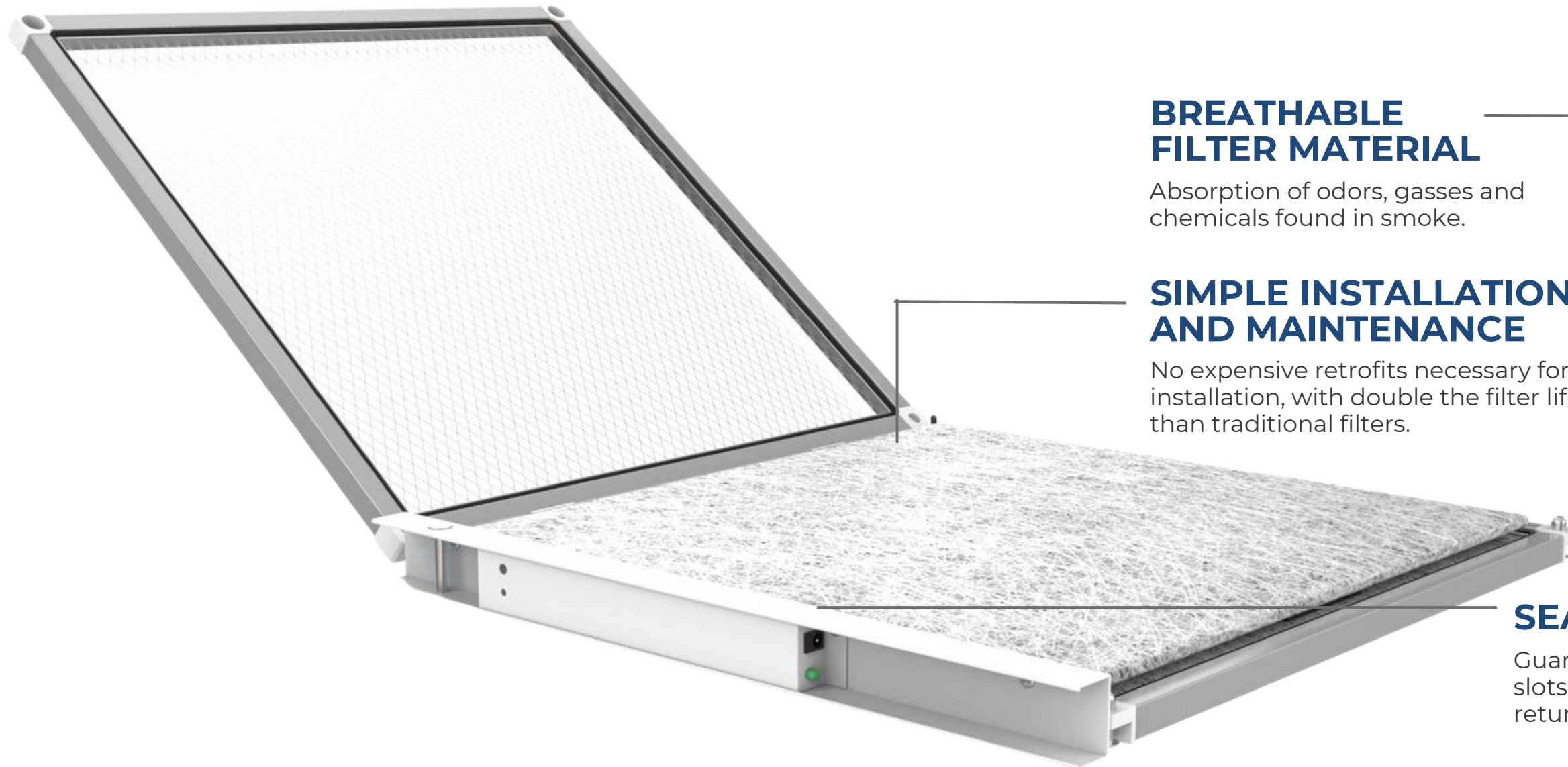
Absorption of odors, gasses and chemicals found in smoke.

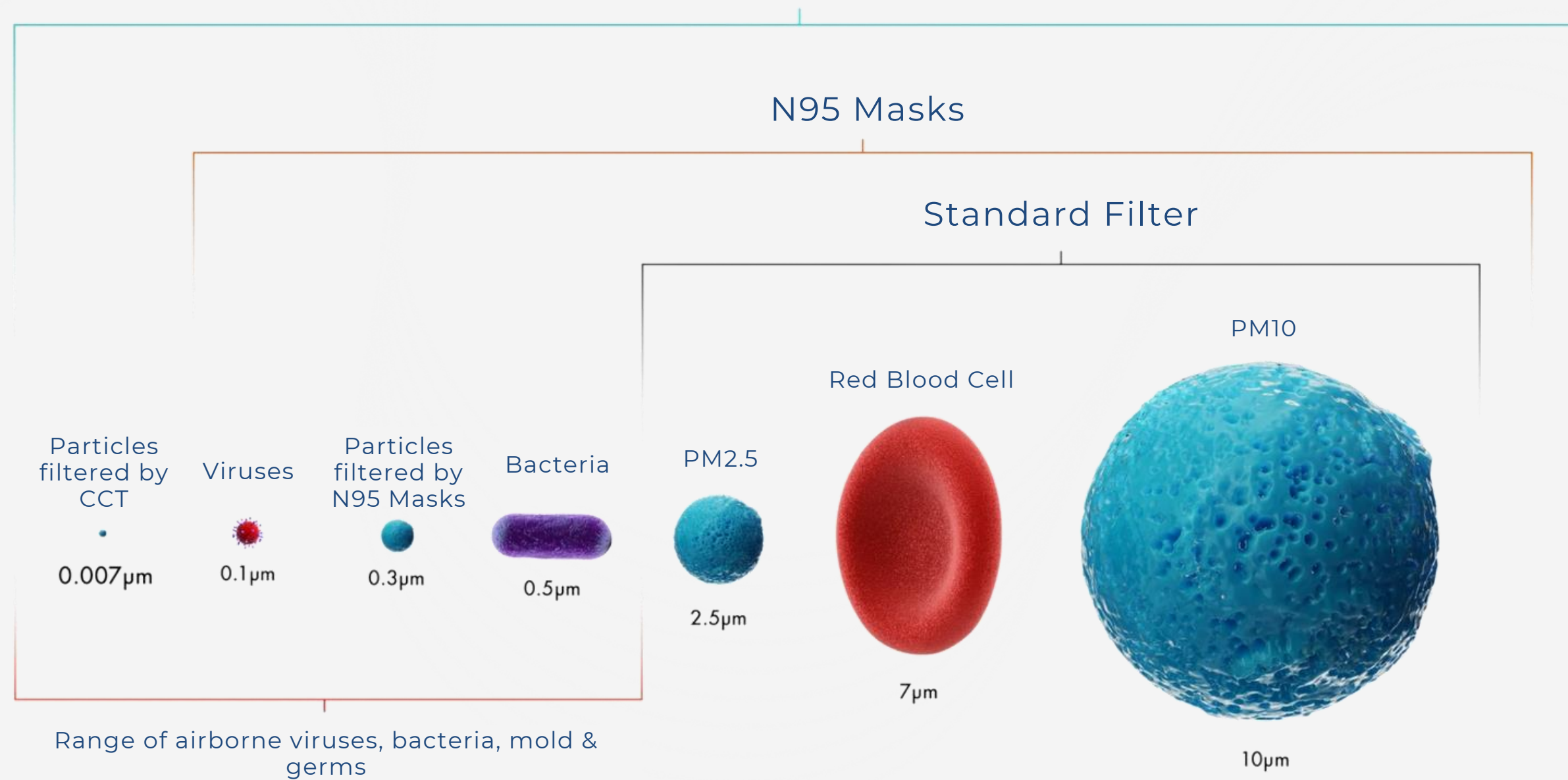
SIMPLE INSTALLATION AND MAINTENANCE

No expensive retrofits necessary for installation, with double the filter life than traditional filters.

SEAMLESS INTEGRATION

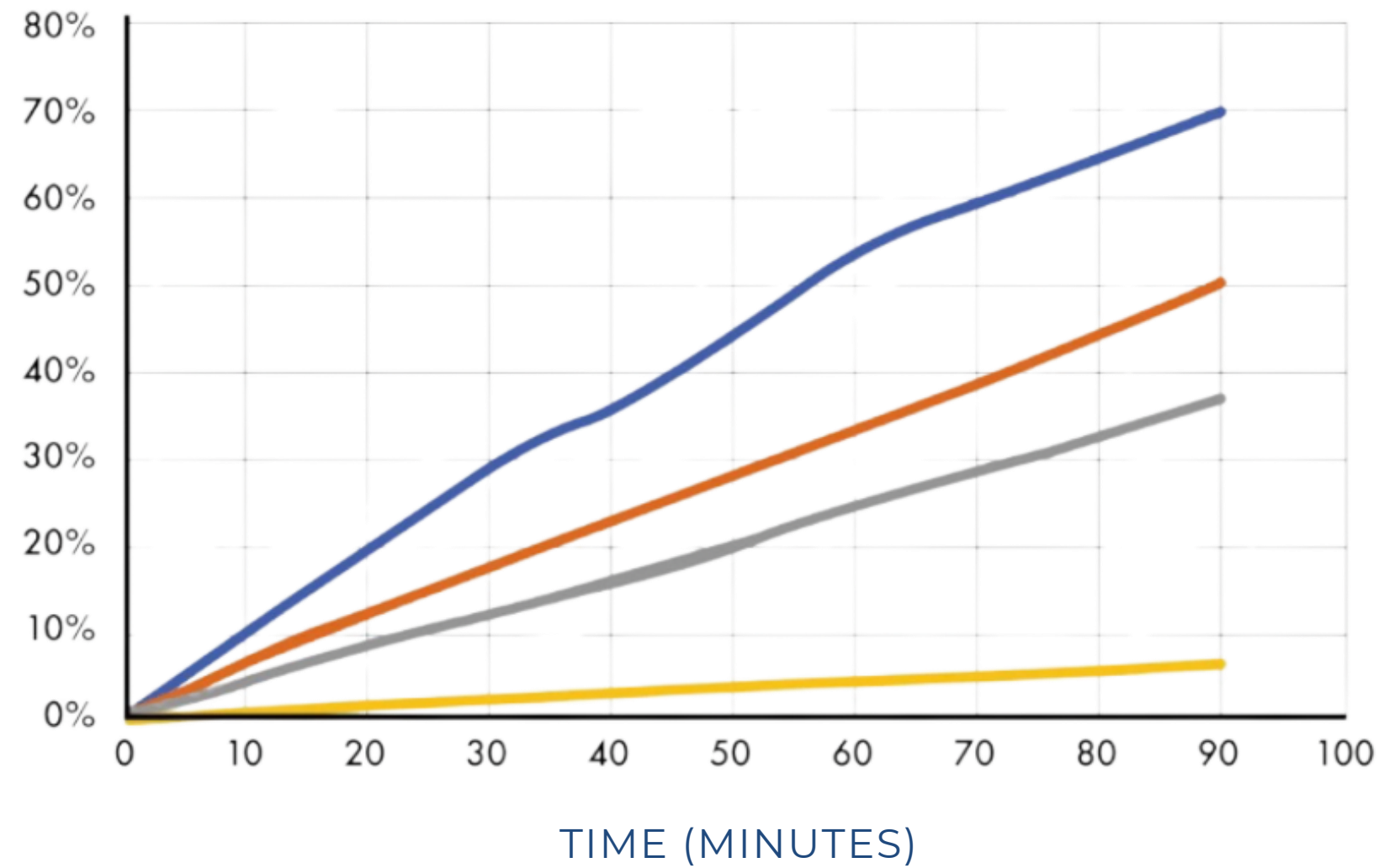
Guaranteed to fit all 1" and 2" furnace slots such as floor return, ceiling return, and furnaces.





Remove harmful micro-particulates that traditional filters cannot capture.

PERCENT REDUCTION IN PARTICLES

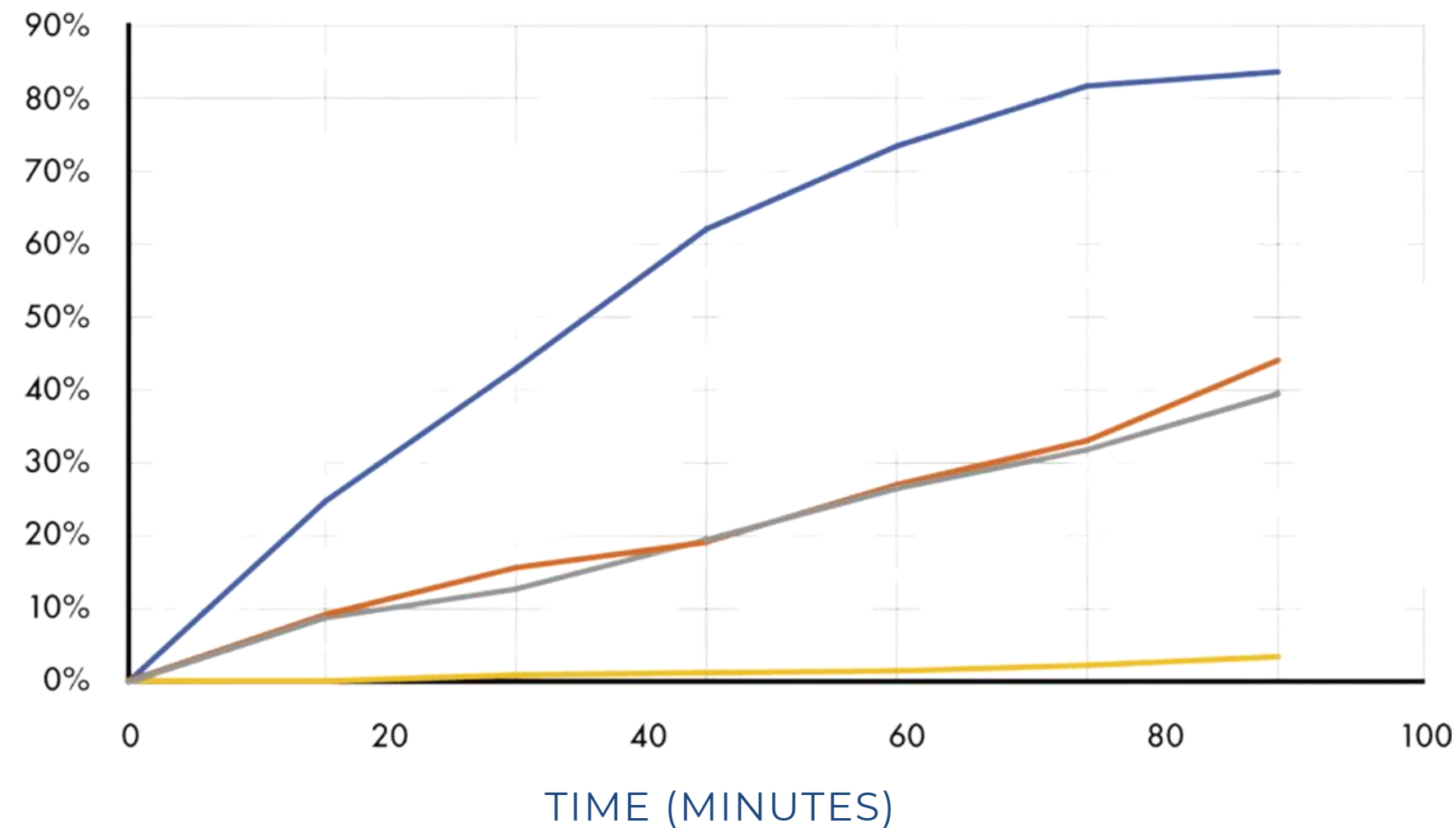


<0.123 Micron Particulate Removal Comparison

Electrostatic vs. MERV and HEPA-rated filters

Effectiveness of removing Sars-CoV-2 and other similar-sized viruses.

PERCENT REDUCTION IN PARTICLES



Full Flow HEPA

Bypass HEPA

MERV 12 1" Pleated

0.007 Micron Particulate Removal Comparison

Electrostatic vs. MERV and HEPA-rated filters

Outperforms standard MERV and HEPA-rated filters at removing harmful airborne pathogens.

EFFECTIVENESS OF HEPA

Are HEPA filters always the best choice?





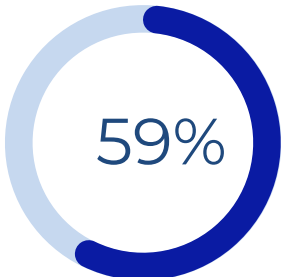
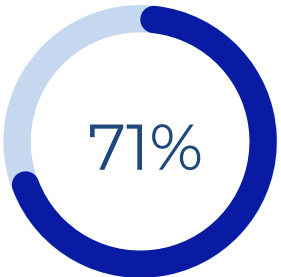
A study from the University of Colorado Boulder tells us placing HEPA filtration, within any HVAC system that has not been specifically designed for HEPA, is a mistake.

[See full report here](#)

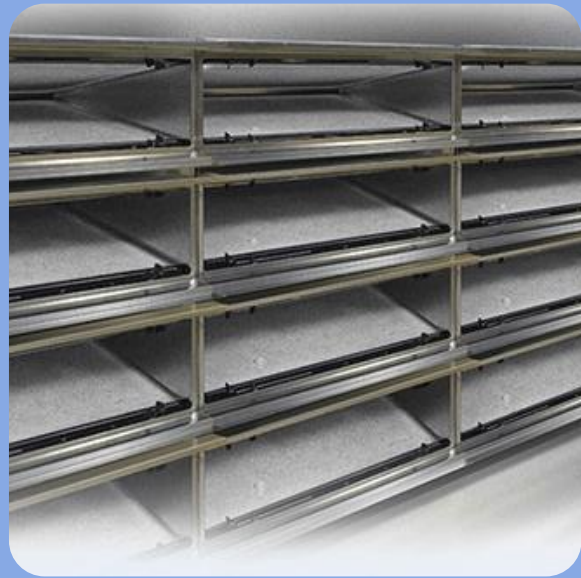
"Investigation of HVAC Operation Strategies for Office Buildings During COVID-19 Pandemic"
University of Colorado Boulder, 2022

	MERV 10 (baseline)	100% Fresh Air	MERV 13	HEPA
0.3 Micron Filtration Efficiency (1st pass)	<5%	N/A	75%	99.97%
SARS-CoV-2 Reduction		11%	10%	5%
Pressure Drop		0.17 in.w.g	0.45in.w.g	1in.w.g
Difference in Total Site Energy Consumption		54% increase	3% increase	12% increase
Long-Term Effect on HVAC System		No additional wear due to increased pressure drop in the system	Slight increase in wear to the system	Significant wear leading to potential premature failure of the system

COMPARING FILTRATION

	MERV 8	MERV 13	<div> Clean Climate Technologies Inc.</div> Electrostatic Filter
Pressure Drop	0.45 i.w.c	0.32 i.w.c	0.13 i.w.c
Filtration Performance	0.3 Microns	0.3 Microns	0.007 Microns
Filter Life	Up to 3 mts.	Up to 3 mts.	Up to 6 mts.
Energy Savings	N/A	N/A	5-10%
Air Quality Alerts			 (BACnet Units Only)
	<div> 59%</div> <div>LESS STATIC PRESSURE THAN MERV 8</div>	<div> 71%</div> <div>LESS STATIC PRESSURE THAN MERV 13</div>	

SEAMLESS INTEGRATION



V-BANK SYSTEMS



AIR HANDLER UNITS



FURNACES



FILTER BAGS

Guaranteed to fit your existing HVAC system with zero switching costs and no expensive retrofits.

Available in standard and non-standard sizes

Project Spotlight

ELECTROSTATIC

The Distillery District

Replacing all MERV-13 filters in existing HVAC with electrostatic filters to reduce energy costs and improve indoor air quality

Value: \$129,000

Date of Project: February 2022

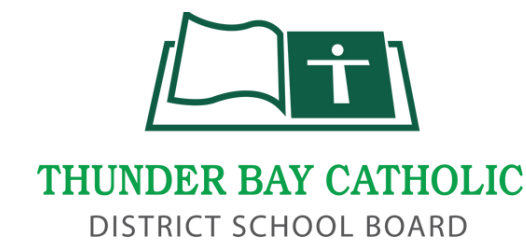


BEFORE



AFTER

DEPLOYED IN OVER 50 MILLION SQ FT OF BUILDING SPACE





Clean Climate



Clean Air



Clean Water



**Technology &
Connectivity**

CONTACT US



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Technologies Inc.**

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