

# OKTOWA<sup>TM</sup>

## Auto-Coil Cleaning System



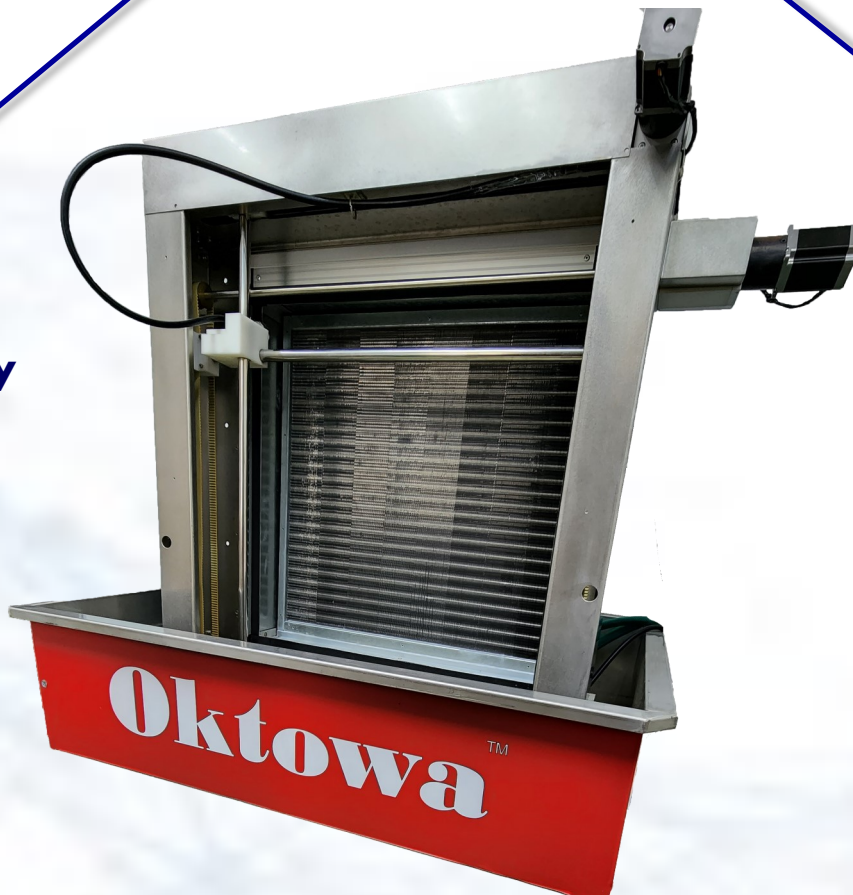
**Save Water**



**Increase Productivity**



**Save Time**



**A newly invented  
Auto-coil Cleaning System**



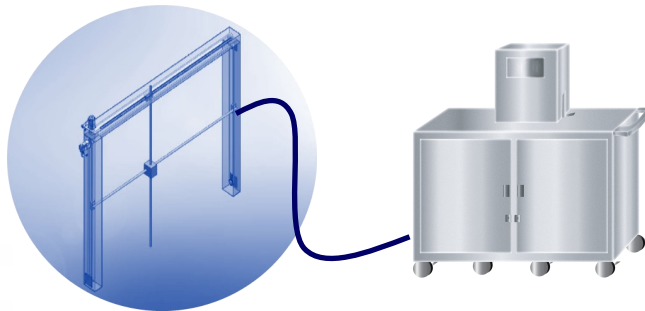
**Save Manpower**



**Save Energy**

# OKTOWA<sup>TM</sup>

## Auto-Coil Cleaning System



### Reality Check

In centralized air-conditioning systems, in particularly within an Air Handling Unit (AHU), the evaporator coils (also known as cooling coils), require frequent chemical cleaning to sustain their efficiency in extracting heat from the supply airstream. This helps to ensure the delivery of refreshing cold air to specific areas within the building. Research underscores that neglecting routine chemical cleaning results in a substantial annual loss of cooling capacity at least 5%!

Over time, the conventional method of chemically cleansing evaporator coils has revealed itself as both laborious and inefficient in water usage, along with posing risks to workers' well-being. Alarming is the revelation that manual chemical cleaning primarily contributes, accounting for up to 85%, to the damaging effects on the coils.

### OKTOWA<sup>TM</sup> – Where the future lies...

After extensive researches and experimentations, the groundbreaking **OKTOWA<sup>TM</sup>** Auto-coil Cleaning System has emerged as the ultimate solution to address the complexities of preserving the performance, efficiency, and efficacy of evaporator coils. Notably, this new innovation promises a remarkable enhancement in Total Cost of Ownership (TCO). The recent achievement of being re-certified as a Green Product with 2 ticks by the esteemed Singapore Green Building Council (SGBC) underscores **OKTOWA<sup>TM</sup>** as a forward-looking investment, actively contributing to a more eco-conscious and environmentally friendly world.

### How does OKTOWA<sup>TM</sup> work?

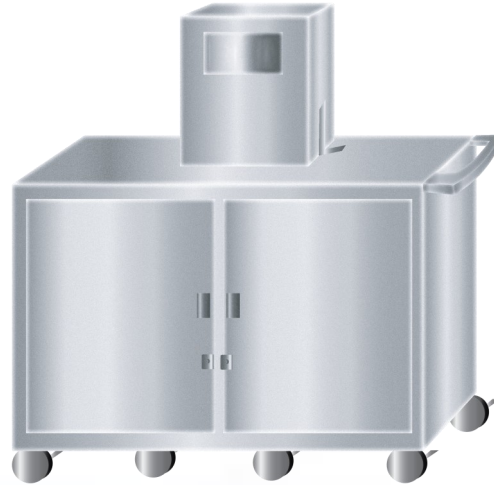
Introducing **OKTOWA<sup>TM</sup>** – a precision-engineered metal framework seamlessly integrated into new or existing Air Handling Units (AHUs), positioned between the cooling coil section and filter housing. This innovation features a proprietary jet nozzle and chemical-resistant components that meticulously designed for superior performance.

Throughout the cleaning cycle, the entire evaporator coil section undergoes a comprehensive washing process using precisely measured volumes of water and chemicals at predetermined intervals. Notably, this equipment is a permanent fixture tailored for rugged use, requiring only minimal maintenance. Its design prioritizes worker well-being and safety.

Crafted to endure heavy usage, **OKTOWA<sup>TM</sup>** is meticulously built to match the prolonged lifespan of your equipment, all while optimizing cooling capacity. Say hello to a groundbreaking solution that seamlessly combines longevity, efficiency, and simplicity in one remarkable package!

# OKTOWA<sup>TM</sup>

## Auto-Coil Cleaning System



The **OKTOWA<sup>TM</sup>** Control System stands as an indispensable component in **OKTOWA<sup>TM</sup>** Auto-coil Cleaning System. This portable unit, with a built-in pump and Programmable Logic Controller (PLC), boasts remarkable adaptability, capable of overseeing multiple **OKTOWA<sup>TM</sup>** Auto-coil Cleaning Systems sequentially. Once connected, the **OKTOWA<sup>TM</sup>** Control System undertakes diverse functions, including precise management of chemical and water quantities, control over washing cycle timing, and data compilation.

Flexible to accommodate various budgets and requirements, the **OKTOWA<sup>TM</sup>** Control System empowers users and owners to optimize the performance and productivity of their multiple units of **OKTOWA<sup>TM</sup>** Auto-coil Cleaning Systems. Here, we unveil a new level of efficiency and operational finesse with a system designed to elevate your maintenance endeavours.

S/N	Description	Manual Method	OKTOWA <sup>TM</sup>	Benefits
1	A Green Product (certified by SGBC)	No	Yes (2 Ticks)	Contribute to Green Mark Initiative
2	Washing Time	2~3 Hours Per AHU	45 ~ 60 Minutes Per AHU	Time Saving
3	Washing Cycle	1~2 Times Per Annum	Programmable (Recommend Once A Month)	Optimise Performance & Lifespan
4	Washing Flexibility	One AHU at One Time	Multiple AHUs at One Time	Optimise Productivity & Labour Saving
5	Washing Pattern	Inconsistent	Consistent	Eliminate Coil Damages
6	Coil Cleanliness	Unpredictable	Predictable	Energy Saving
7	Coil Performance	Non-monitorable	Monitored by EMS	Energy Saving
8	Water Consumption	Non-measurable & Non-controllable	Measurable & Controllable	Water Saving
9	Detergent Usage	Non-measurable & Non-controllable	Measurable & Controllable	Chemical Saving
10	Health Hazard	Major Concern	No Concern	Labour Welfare & Safety
11	Data Collection	Non-Retrieveable	Retrieveable	Performance Analysis
12	End Result	Not Reliable	Very Reliable	Performance Guarantee
13	Total Cost of Ownership (TCO)	Non-measurable & Non-predictable	Measurable & Predictable	ROI is typically 4~7 years

# OKTOWA<sup>TM</sup>

## Auto-Coil Cleaning System



### Standard Technical Data

Built	: Powder-coated or Stainless Steel Frame
Control	: Proprietary PLC
Dimension	: Flexible
Nozzle	: Stainless Steel Made
Pump	: 100~150 PSI
Water Supply	: Direct Water Inlet
Detergent Tank	: 2 x 80~200L
Discharge Rate	: 5 inch/s
Electrical	: 220V/50 Hz/1 Ph
Power Consumption	: 2.3 KWH
Limited Warranty	: 5 years or 75 washes, whichever come first.

Solely Distributed



[www.airmazecorp.com](http://www.airmazecorp.com)

A member of

