



INTRODUCING

DATA WORX™

Energy Savings & Corrosion Protection

For Precision Cooling Applications

**GLOBAL
APPLICATIONS**



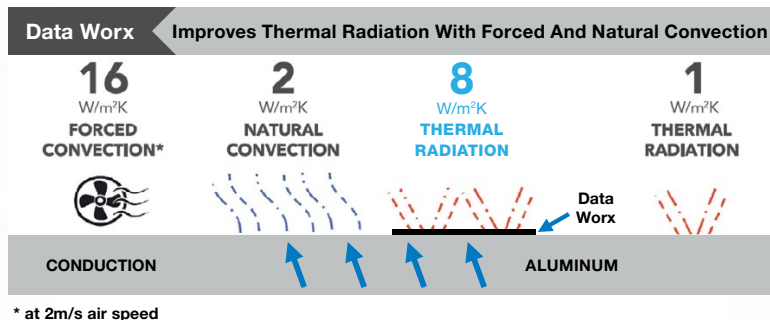
PATENT PENDING

DATA WORX™

Data Worx is a transformative graphene-powered coating for HVAC/R and process cooling coils. Data Worx, a patent-pending coating, uniquely expedites heat transfer plus provides superior corrosion resistance to the coil. Benefits include:

- Superior Heat Transfer
- Energy Savings
- Corrosion Protection
- Extended Equipment Life
- Improved System Performance
- Lower Peak Demand

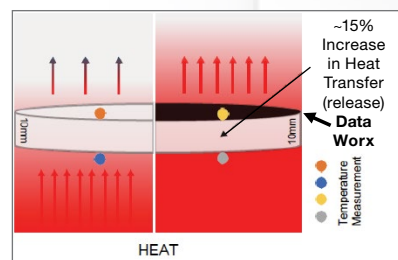
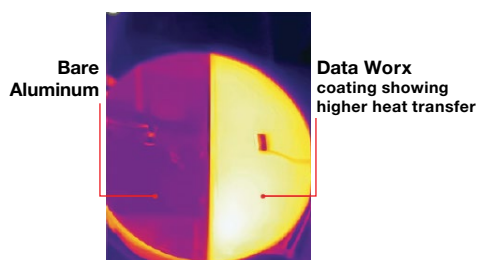
HOW DOES IT WORK?



UNIVERSITY VERIFIED



Kiln with Aluminum Plates



Verified by The University of Queensland (Aluminum Top Side only)

SPECIFICATIONS

Salt Spray, ASTM B117	30,000 Hours	Volume, Solids	25% +2% Vol/Wt
Salt Spray- Acidic, ASTM G85 A1	3000+ Hours, No Blisters, Flaking Or Loss Of Adhesion	Touch Dry	1 Hour at 77°F
Salt/So2 Testing, ASTM G85-09, Annex 4	720 Hours, No Corrosion Or Defects	Color	Black
Water Immersion, ASTM 870	No Blisters, Flaking, Cracks, Rust Or Softening Of Coating	Gloss Level	Matte To Semi-Gloss Based On Curing Conditions
Uv Resistance, ASTM D4587	1000 Hours, No Fading, Blistering, Flaking Or Loss Of Adhesion	Emissivity	0.95 (Out Of 1.0)
Adhesion (Cross Hatch) ASTM D3359-88 53151	Level European 5b, B-A	Typical Thickness	Dry Film Thickness: 8-20 Microns
Flexibility, ASTM D522	No Cracking, Flaking Or Loss Of Adhesion	Coverage	20 Sq. Ft Of Coil Surface (Triple Light Coat Method)
Antifungal, ASTM G21	After 28 Days Growth Is Greatly Reduced – Score Two	Application Temperature	45°F To 100°F
Maximum Operating Range	300°F (Continuous) 570°F (Brief Period Max)	Application Method	Field: Spray Applicator OEM: Spray Applicator Or Dip Formulation
Ph Of Cool Worx	8-10	Storage	Cool, Dry Place – Prevent From Freezing
Ph Tolerance Of Cool Worx Coating	1-12	Storage Life	Five Years (Unopened Packaging) One Year (Open Packaging)
Viscosity	50-80 Secs (Zhan Type Cup #2)	Warranty	Five-Year Limited Warranty

DATA CENTER APPLICATIONS

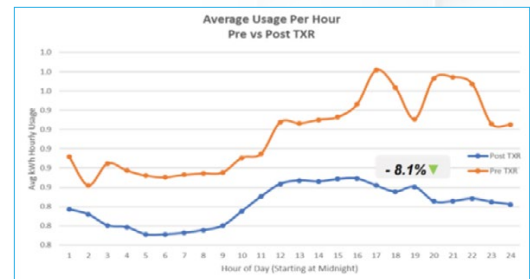
Aviation IT Data Center, Singapore

- ◆ 18 Computer Room Air Conditioning (CRAC) Units
- ◆ 15.4% Improvement In Energy Efficiency



Data Center, Indonesia

- ◆ 5 Precision Air-Conditioning Systems (PACs)
- ◆ 8.1% Improvement In Energy Efficiency



Rack/Cold Plate Thermal Management

- ◆ Nvidia Rack: GB200 NVL72
- ◆ Daily Energy Usage, 720kWh; Savings 76.3 Wh, 10.5% (Calculated And Replicated)



Data Center World Innovation Challenge, 2024

- ◆ Most Disruptive Technology
- ◆ Best Chance for Market Success



GLOBAL APPLICATIONS

CONDENSER COILS

APPLICATION	LOCATION	EQUIPMENT	ENERGY SAVING
Hospital	Singapore	Daikin Chiller	24.3%
Data Centre	Singapore	CRAU (18 units)	15.4%
Warehouse	Singapore	Daikin RUR10YN1	14%
Food Manufacturing	Singapore	Daikin Chillers HE 402C	11.6%
Fitness Club	Australia	85kW AC Unit	22%
Bank Branch	Singapore	Daikin VRV	10-20%
Fast Food Restaurant Chain	Australia	50 kW AC Unit	5.4-19%
High School Gymnasium	Texas, USA	30-ton AAON Rooftop AC	36.7%
Industrial Manufacturing	Romania	TRANE Air-Cooled Chiller	18%

EVAPORATOR COILS

Changi Airport, Singapore

- Large, Commercial Air Handling Unit; Evaporator Coil
- 10.6% Improvement Temperature Drop Across Cooling Coil
- 6.6% Decrease In Pressure Drop Across Coil



PROCESS COOLING

Australian LNG Production Facility

- Ammonia Pre-Cooler
- Production Capacity Bottleneck On High Ambient Days
- 16.6% Performance Improvement Eliminating Bottleneck



www.dataworxcoating.com

