

# APEX

## QUARTERLY

FOURTH QUARTER 2024

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**RYDLYME** - THE PERFECT SOLUTION TO DATA CENTER DESCALING!

BOILER DESCALING AND MAINTENANCE WITH **RYDLYME**!

FEATURE SPOTLIGHT: THE 10CIP INDUSTRIAL DESCALING SYSTEM!

DEGREASING BASICS WITH **RYDALL MP** MULTI PURPOSE DEGREASER!



NEWS ON SAFE  
CHEMICAL SOLUTIONS  
FROM APEX ENGINEERING  
PRODUCTS CORPORATION



Data centers are the backbone of the modern digital world, and maintaining their cooling systems is critical to ensuring uptime. Over time, water-cooled chillers and cooling towers in data centers accumulate water scale, rust, and other deposits that can reduce cooling efficiency. These deposits, if left untreated, can lead to increased energy consumption, costly repairs, and unplanned downtime.

Enter **RYDLYME** Biodegradable Descaler — the safe, effective, and fast-acting solution for descaling these essential systems. Unlike traditional harsh chemicals, **RYDLYME**'s biodegradable formula is safe for operators and the environment, making it a preferred choice for facility managers worldwide.

How **RYDLYME** Helps Data Centers:

- Restores optimal heat exchange to ensure proper cooling and avoid equipment strain.
- Reduces energy costs by maximizing system efficiency and lowering power consumption.
- Minimizes downtime with quick, easy cleaning that reduces the risk of emergency shutdowns.
- Environmentally safe — biodegradable, non-corrosive, and safe for operators to use.

**Tip:** Schedule regular descaling to prevent costly emergency maintenance. Our team can guide you through the process with the right descaling plan for your facility. Contact us to learn more about how to protect your data center's uptime and operational efficiency.

In the IT sector, large-scale cloud computing facilities rely on optimized cooling systems to maintain high processing speeds. Using **RYDLYME** as part of a preventive maintenance plan ensures maximum operational efficiency, energy savings, and lower carbon footprints. Facilities that

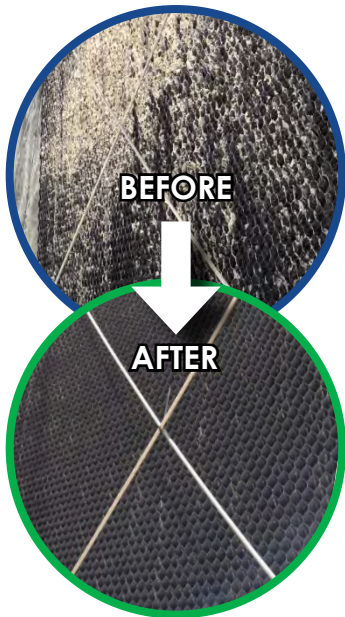


integrate **RYDLYME** descaling into their routine maintenance schedules see long-term reductions in operational costs.

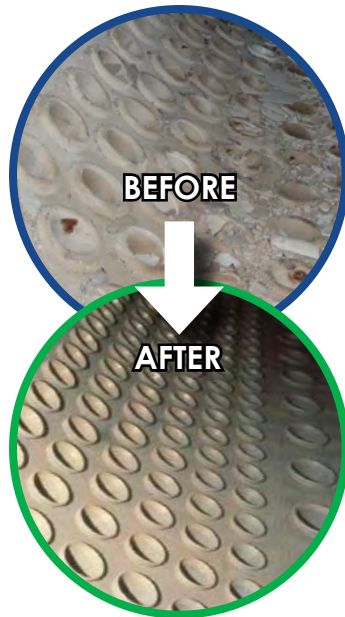
### Chiller Descaling Procedure:

1. Isolate the chiller from the system and drain all water.
2. Attach hoses to the chiller's inlet and outlet ports.
3. Connect the hoses to the 10CIP Descaling System.
4. Circulate **RYDLYME** through the chiller for 2-4 hours, depending on the severity of the scale.
5. Monitor the flow and observe for any reduction in flow, indicating the dissolution of scale.
6. Drain and flush the system thoroughly with fresh water.
7. Return the chiller to normal operation and test for proper flow and performance.

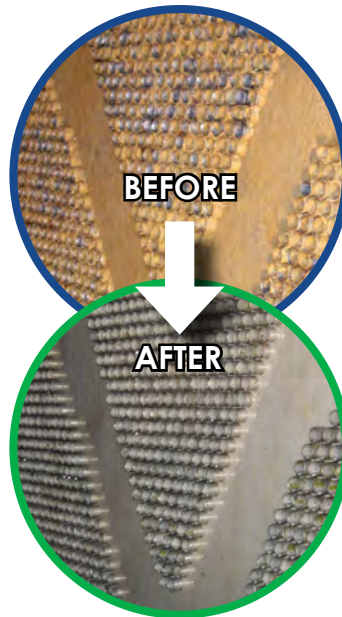
Cooling Tower Scale



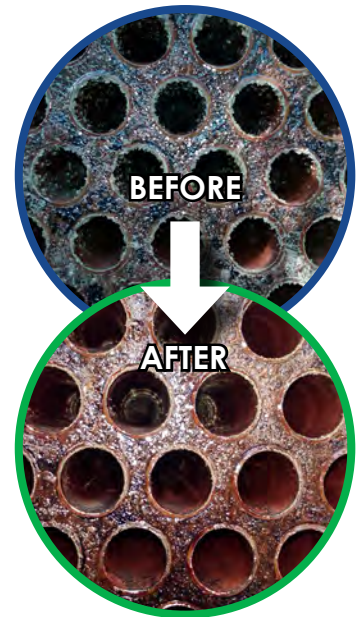
Boiler Scale



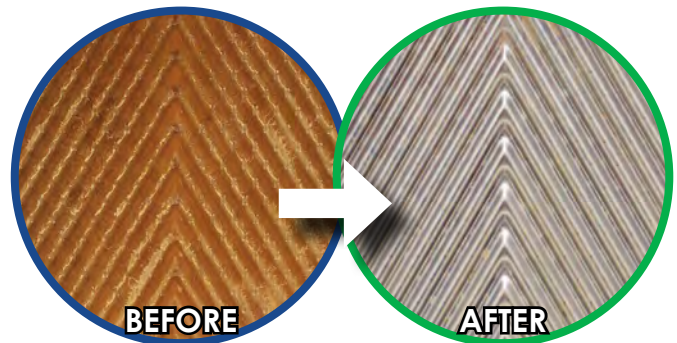
Condenser Scale



Chiller Scale



Heat Exchanger Scale



**RYDLYME**  
World's Leading Biodegradable Descaler



### RYDLYME Features:

- Biodegradable
- Dissolves 2.2 lbs of scale per gallon
- NSF/ANSI/CAN 60 certified
- Non-corrosive and safe for personnel

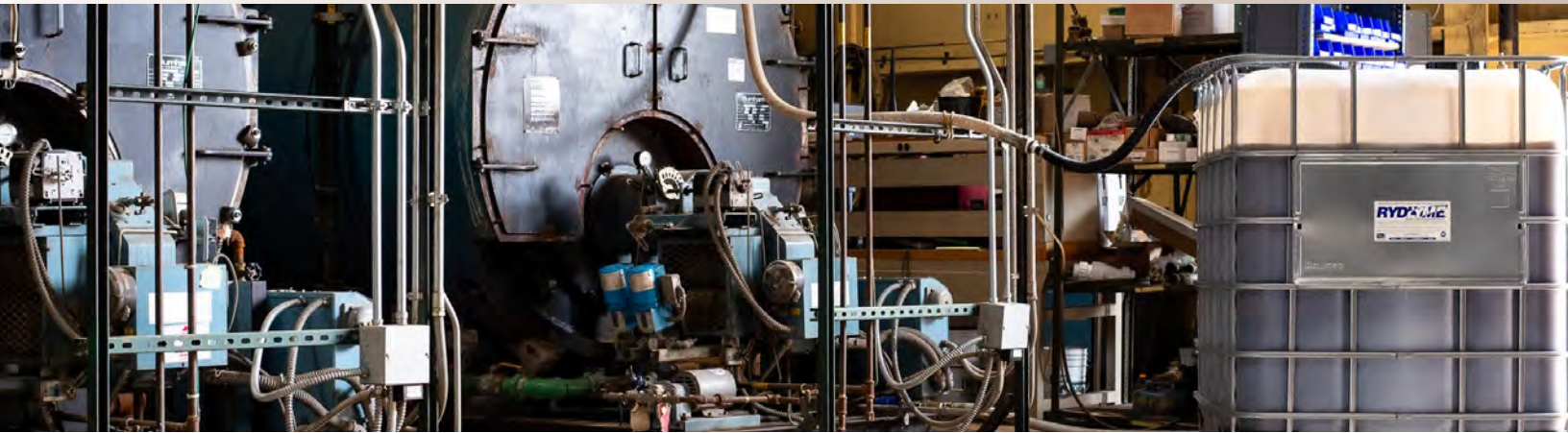


Manufactured Since 1942 by: Apex Engineering Products Corporation



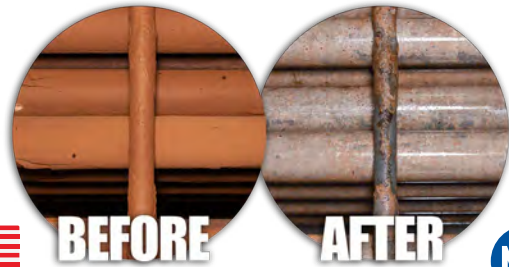
## Boiler Cleaning Kit

**RYDLYME** dissolves water scale, lime, struvite, vivianite, mud and rust deposits safely, quickly and effectively!



**RYDLYME** Boiler Cleaning Kit includes:

- A recommended quantity of **RYDLYME** Biodegradable Descaler (NSF/ANSI/CAN 60)
- An Industrial Descaling System for circulation
- Including multiple hoses (2-3 hoses depending on descaling system)
- Technical support and sales representatives around the globe
- **FREE** desposit test! (\$299 **VALUE!**)



Certified to NSF/ANSI 60  
Nonfood Compounds (A3)



Industrial Descaling System 15MDC

Product Size	SKU
<b>RYDLYME</b> 4X1 Gallon Case	<b>RYD04</b>
<b>RYDLYME</b> 1 Gallon Jug	<b>RYD01</b>
<b>RYDLYME</b> 5 Gallon Pail	<b>RYD05</b>
<b>RYDLYME</b> 30 Gallon Drum	<b>RYD30</b>
<b>RYDLYME</b> 55 Gallon Drum	<b>RYD55</b>
<b>RYDLYME</b> 330 Gallon Tote	<b>RYD330</b>

## RYDALL MP Workbench Cleaning



This workbench was covered in grease and grime from daily use at a pressure-impregnated kiln-dried lumber and plywood manufacturer. Diluted to a 50-50 ratio, **RYDALL MP** was simply sprayed on to the workbench, allowing 30-45 seconds of contact time and wiped away revealing the results above! The customer is excited to try **RYDALL MP** throughout the remainder of the manufacturing facility.

### CHALLENGE

Removing grease and grime from this workbench quickly and safely.

### SOLUTION

The workbench was sprayed with diluted (50-50) **RYDALL MP**, the solution sat for 30-45 seconds before being simply wiped off.

### RESULTS

**RYDALL MP** removed the grease and grime with ease as shown above in the photos! The team is excited to try **RYDALL MP** throughout the rest of the manufacturing facility.

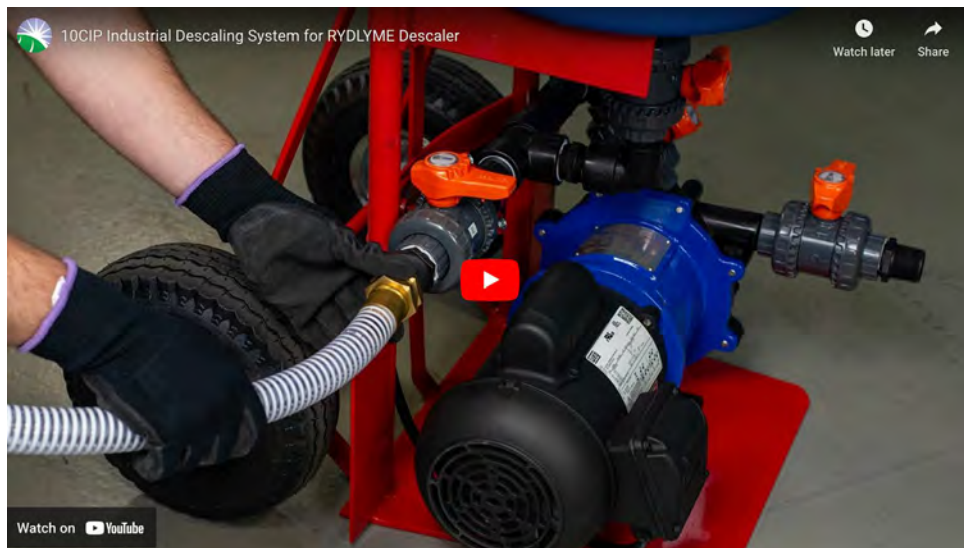


# Tough on scale. Easy to maneuver.

Introducing the all new, redesigned  
10CIP Industrial Descaling System for **RYDLYME** Descaler



## Ready, set - descale with a 10CIP.



### 10CIP Specifications

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14 Gallon Bucket

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30 GPM at 25' Head

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½ HP Pump

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(3) 10' Tygon  
Hoses

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1'' Plumbing  
Throughout

---

10'' Pneumatic  
Wheels

# Quality parts. Quality features.



Secure 1" hose connection from equipment via Ipex tru-union valve and nipple.

Secure 1" hose connection to equipment via Ipex tru-union valve and nipple.



Ipex tru-union valve for assembly and disassembly.

Ipex tru-union bypass valve to separate bucket from reservoir.





Secure 1" hose connection for drainage/ separate reservoir via Ipex tru-union valve and nipple.

10" pneumatic wheel for easy maneuvering on uneven surfaces.



GFCI on/off switch with outlet for onsite accessories.

Purpose built down pipe for controlled operation and open top 14 gallon bucket for venting & observing performance.



**Manufactured to last.**

The Industrial Descaling System 10CIP is a robust system that allows **RYDLYME** to be circulated throughout your water based system. Proudly manufactured in an ISO 9001 Certified Facility in the USA.

[More Information](#)



## DESCALER & PUMPING SYSTEMS



**RYDLYME** biodegradable descaler is uniquely formulated to dissolve the toughest water scale, lime scale, mud and rust deposits from virtually any water-operated equipment. NSF A3 and ANSI 60 certified.



**RYDLYME Pumping Systems** are specifically designed to circulate **RYDLYME** through a vast array of equipment and systems to keep your facility at peak operating condition.

## CLEANERS & DEGREASERS



**RYDALL CC Coil Cleaner** is a biodegradable, concentrated solution that is safe for indoor and outdoor cleaning of air exposed surfaces on HVAC/R equipment. Dilutable and capable of being applied via foaming applicator. NSF A3 certified.



**RYDALL MP Multi Purpose Degreaser** is a biodegradable, versatile cleaner that quickly and safely removes oil, grease, grime and other pollutants from wettable surfaces and components. NSF A1 certified.



**RYDALL HD Heavy Duty Degreaser** is a biodegradable heavy duty, industrial grade degreaser. Used specifically on all carbon based derivatives that are found on the oil and/or process sides of your critical equipment or systems.



**RYDALL VP Specialized Degreaser** is a biodegradable, pH neutral degreaser specifically designed to safely and quickly clean and degas refinery process equipment. It can be applied in circulation or vapor phase applications.



**RYDALL DC Deodorizing Cleaner** is a biodegradable, ultra-concentrated cleaner designed to be used generally in janitorial applications such as floor, bathroom and window cleaning.

## ODOR CONTROL & WATER TREATMENT



**RYDALL OE Odor Eliminator** is a unique, environmentally beneficial additive that is applied to landfills, compost or other organic odors. Naturally enhances methane release and production. Contains no masking agents, essential oils or fragrances.



**RYDALL WO Water Optimizer** is an environmentally beneficial additive that naturally reduces and prevents the formation of H<sub>2</sub>S, COD, BOD, FOG, TDS and TSS. Thereby reducing corrosion and discharge penalties while increasing production.



**BUCKED SCENT ELIMINATOR** is born and bred from our industrial products, BUCKED is designed to eliminate the scent hunters carry in order to be invisible!

1241 Shoreline Drive Aurora, Illinois 60504 T: 630.820.8888 | 800.451.6291 | F: 630.820.8886 | MADE IN THE USA

**Apex Engineering Products** has been formulating and manufacturing safe and biodegradable specialty cleaning chemicals for a diverse range of applications around the world. From our **RYDLYME** biodegradable descaler to our versatile **RYDALL** line of degreaser/cleaner, odor control and water treatment products, we aim to decrease downtime and increase efficiency.

We are a fourth-generation, family-owned company acclaimed not only for our biodegradable line of products, but also our in-depth and exceptional customer support. With decades of knowledge and experience in a wide array of applications, our professional technicians will work closely with you to determine the best solution for your facility's unique challenges.

Apex Engineering Products also takes great pride in being an ISO 9001 Certified Company providing the highest level of support and quality of products to our customers... **another formula that hasn't changed in over 80 years!**