

SUPERSTEAM COIL CLEANER

**INTRODUCTION TO SUPERSTEAM
COIL CLEANING SERVICES**

***A Breakthrough In Coil
Cleaning Technology***



EBRACO INTERNATIONAL CO., LTD

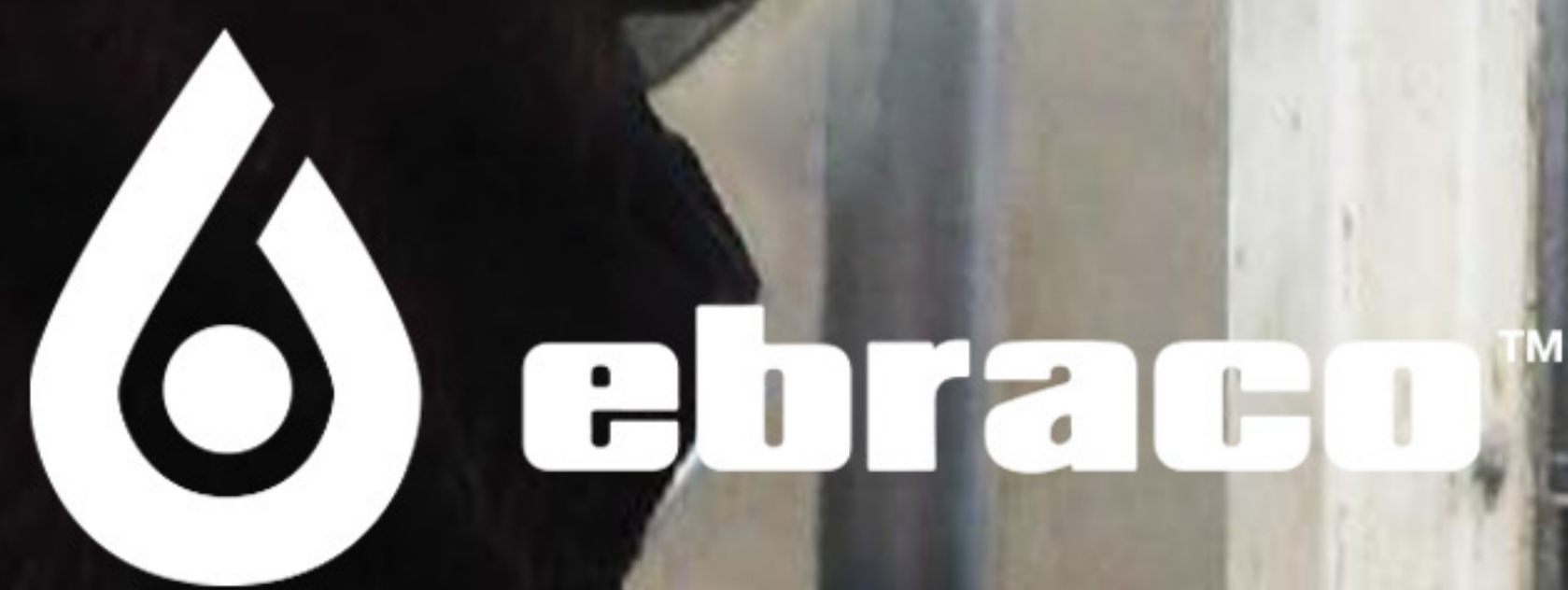
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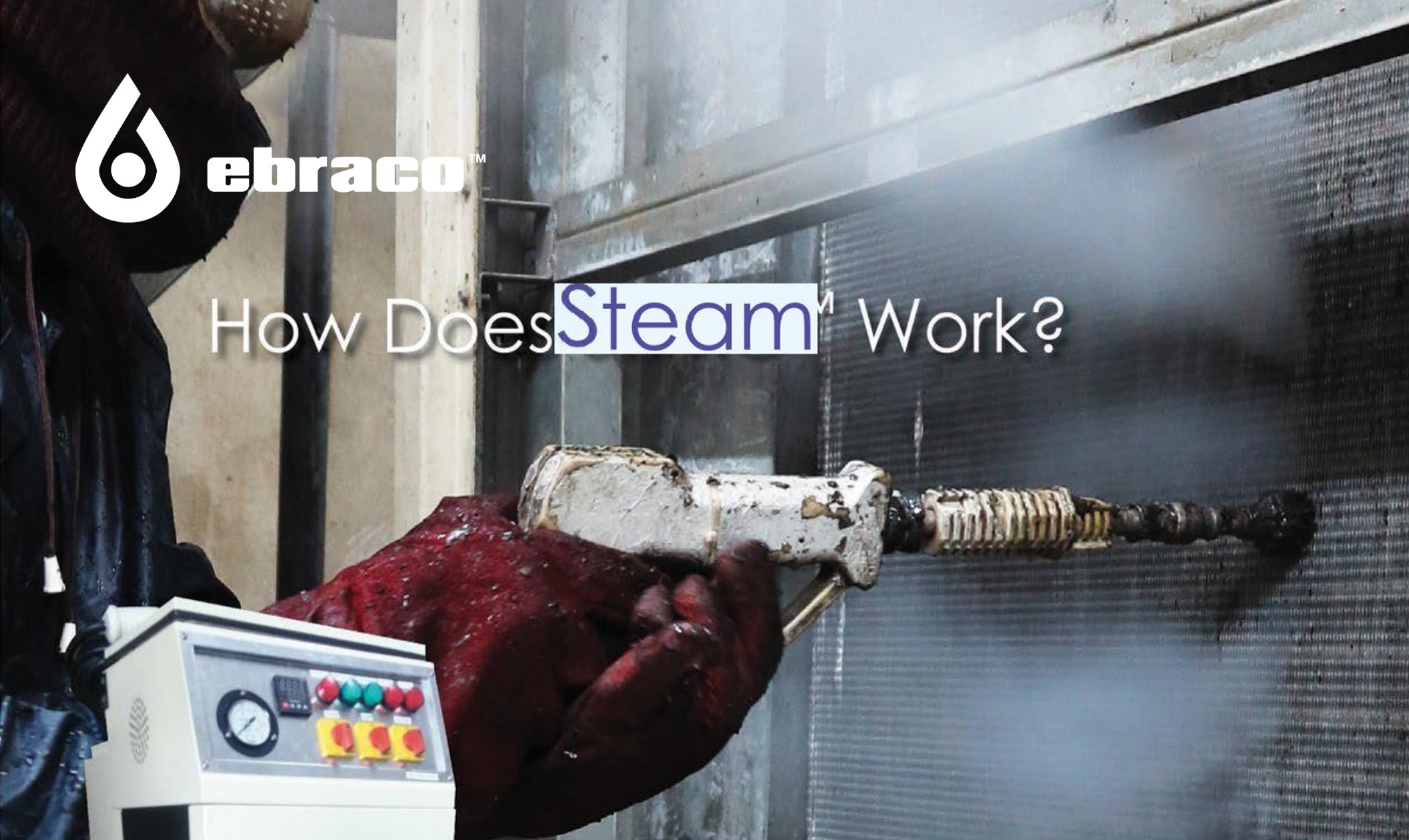
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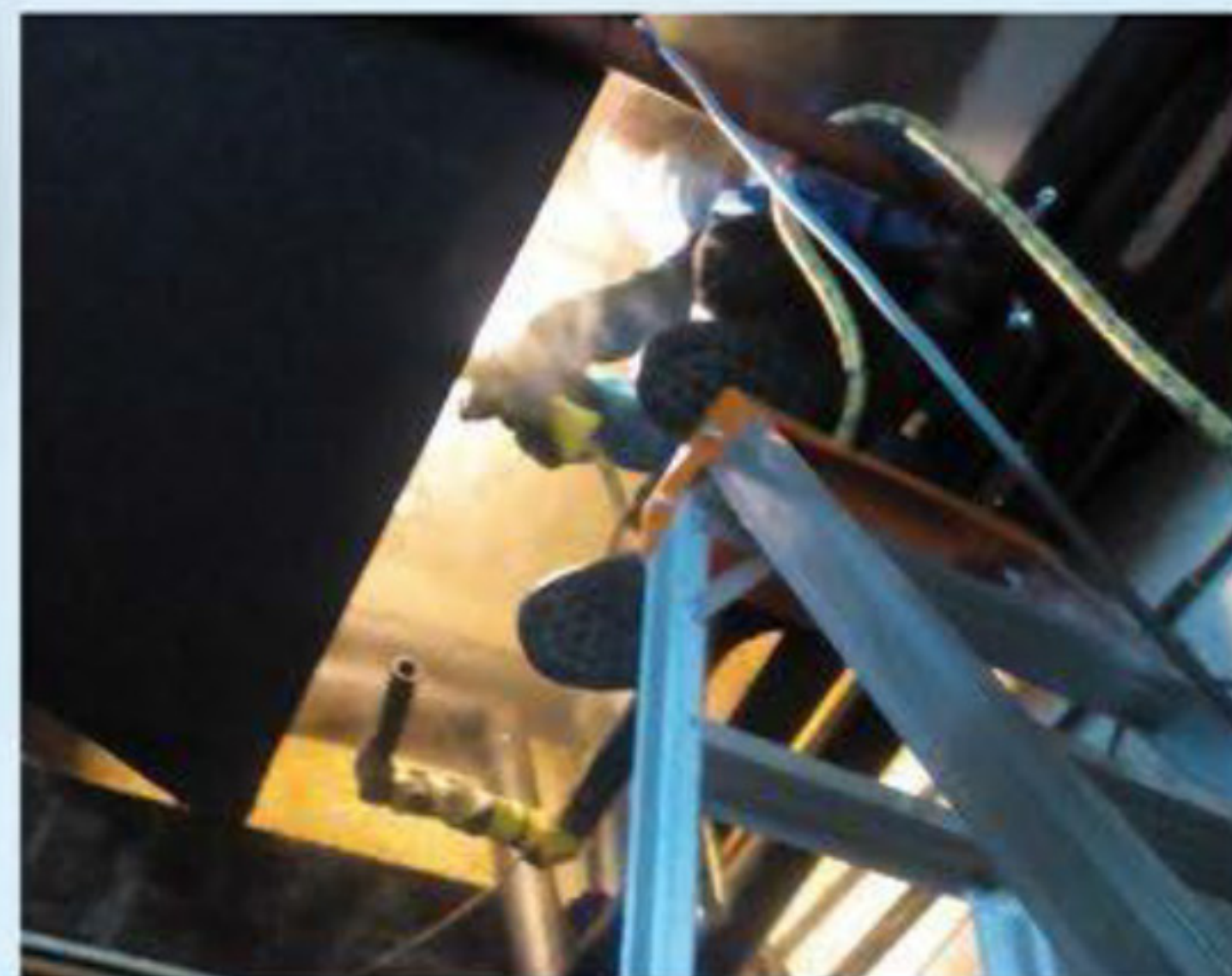


How Does Steam Work?



The key to steam cleaning method is heat. It provides thermal shock and boost steam's expansion rate (1500X) to water droplet at a much higher level.

Thermal shockwave loosens the contaminants while the extreme expansion of steam molecule (1500X) creates a wedge effect to dislodge the tough contaminants from the substrate, steam is generated at up to 180°C (8 BAR)



The duration of steam cleaning depends on the level of contaminants, its coil size and depth. Extraction is a gradual process; beginning from the surface and gradually progresses into the inner depths before breaching through.



Why Use



ebraco™

Super steam Coil Cleaner



ENERGY SAVING

In a typical modern and green building, air conditioning counts for up to 60% of its total energy consumption and the efficiency of its air conditioning system can result in substantial savings in energy cost.

IMPROVE POOR AIR CONDITION

Cooling coil is a reservoir of biological contaminant and is also the “HEART” of the air-conditioning system whereby the entire air distribution flows through. A dirty coil restricts the air flow pathway resulting in poor cooling, excess energy consumption and drop in pressure throughout the system.



BREAKTHROUGH TECHNOLOGY

Cleaning a dirty coil is a major issue in the air-conditioning HVAC system industry, this is due to method of chemical cleaning not very effective to this problem. Chemical cleaning just clean the coil surface without improve any air flow performance. While acid and alkaline degrade and corroded the coil structure that may cause severe harmful effect to the overall performance of HVAC air conditioning system.

COST SAVING

By using Ebraco Supersteam Machine and rejecting a chemical used in the coil, it will help to achieve an excellent lifespan up to 30 Years. Hence, it will contribute the peace of minds, prevent unnecessary downtime and substantial saving in service also any others replacement cost



EBRACO SUPERSTEAM FOR AIR CONDITIONING SERVICES

THE SMARTEST SOLUTION TO COSTLY REPLACEMENT AND MAINTENANCE

THE BENEFITS AND ADVANTAGES OF CAF SUPERTEAM SERVICE

SUPERSTEAM SERVICE	CHEMICAL CLEANING METHOD
Non Corrosive. Water Base Superheated Steam.	Acid Or Alkaline Based Chemicals Corrodes Coil Structure
Does Not Damage Coil. Aluminum Melting Point Is At 660 °C	Chemicals Degrade AHU Coils And Its Panel Components.
99.99% Effective in Removal of Coil Contaminants.	Chemical Cleanses Coil Surface Only And Largely No Improvement To Airflow.
Green Technology. 100% Chemical Free! Save For The Environment	Hazardous To The Environment
Energy Saving. Clean Coil Optimizes System Performance	Besides Being Corrosive, Chemical Cleaning Method Is Largely Ineffective And Does Not Serve Any Beneficial Functions To The Overall Performances Of Air Conditioning
Lowers Maintenance Cost-Substantial Savings In Service Cost. Part Of Energy Savings Is Redirected To Service Expenditure.	
All Application. All Types Of Air Conditioning Equipment AHU, FCU, DHU, Wcpu, Vrv Etc	
Can Service Anywhere. Ceilings, Rooftops, Tight Enclosure Etc. Supersteam Is Dry Steam and Uses Minimal Water.	
Spot Cleaning. No Dismantling Of Air-Cond Coils or Equipment. Lowers Labour Cost.	
Prolong Lifespan Of Components. Poor Coil Performance Means That Compressors, Chillers, Boilers, Blowers And Pumps All Have To Work Harder, Reducing Lifecycle.	
Replacement Cost Savings-By Using Supersteam And Without Chemical A Coil Can Easily Achieve A Lifespan Of Up To 30 Years.	

Service Assessment On Air Velocity

SAMSUNG DHU					
Before			After		
0.7	0.6	0.5	4.7	4.5	4.0
1.0	0.6	0.7	4.7	4.8	4.9
0.0	0.2	0.4	4.4	4.5	4.6

INTERCONTINENTAL AHU	
Ahu Unit No	Kitchen Pastry Unit
Number of Points Recorded	6
Before (meter/sec)	0.0
After (meter/sec)	3.1

YAKULT'S AHU							
Ahu Unit No	Main Unit 3	Ahu 4	Ahu 6A	Ahu 6B	Ahu 6C	Ahu 7A	Ahu 7B
Number of Points Recorded	6	4	4	4	4	4	4
Before (meter/sec)	2.2	0.5	1.2	1.4	1.3	1.5	1.7
After (meter/sec)	3.5	2.5	2.6	2.9	2.6	2.5	2.7

Renaissance FCU



Pure Circle AHU



Our clients:



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