

# Aprilaire®

## Dehumidifier for Waterproofing Applications



Keep moisture out of  
basements and crawl spaces

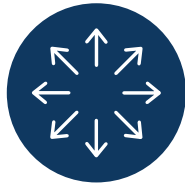




“We have one of the best reputations in encapsulations in the entire country now, and Aprilaire is part of that success story for us.”

- Robert Keefer





# Grow Your Business with Aprilaire

**The trusted name in Healthy Air solutions since 1954 in the HVAC industry is now the relied-upon source for moisture control solutions in basement waterproofing applications.**

Our expertise in the design, engineering and marketing of indoor air quality products has allowed us to develop efficient, effective dehumidifiers for a number of specific applications.

High-capacity dehumidifiers protect against the damaging buildup of moisture in basements better than small portable models.

After successful waterproofing, dehumidification will protect your work and warranty. Prevent viruses, future mold growth, musty smells and structural damage in the basements you waterproof. Differentiate your business by offering customers a comprehensive and effective solution to moisture control in their basements.



**Designed for your business—  
trouble-free, reliable, robust.**

- + Industry-leading 5-year warranty
- + Designed, rigorously tested and assembled in the USA
- + World-class tech support and customer service teams in Madison, WI



## *A Complete Solution*

### HEALTHY AIR FROM THE GROUND UP

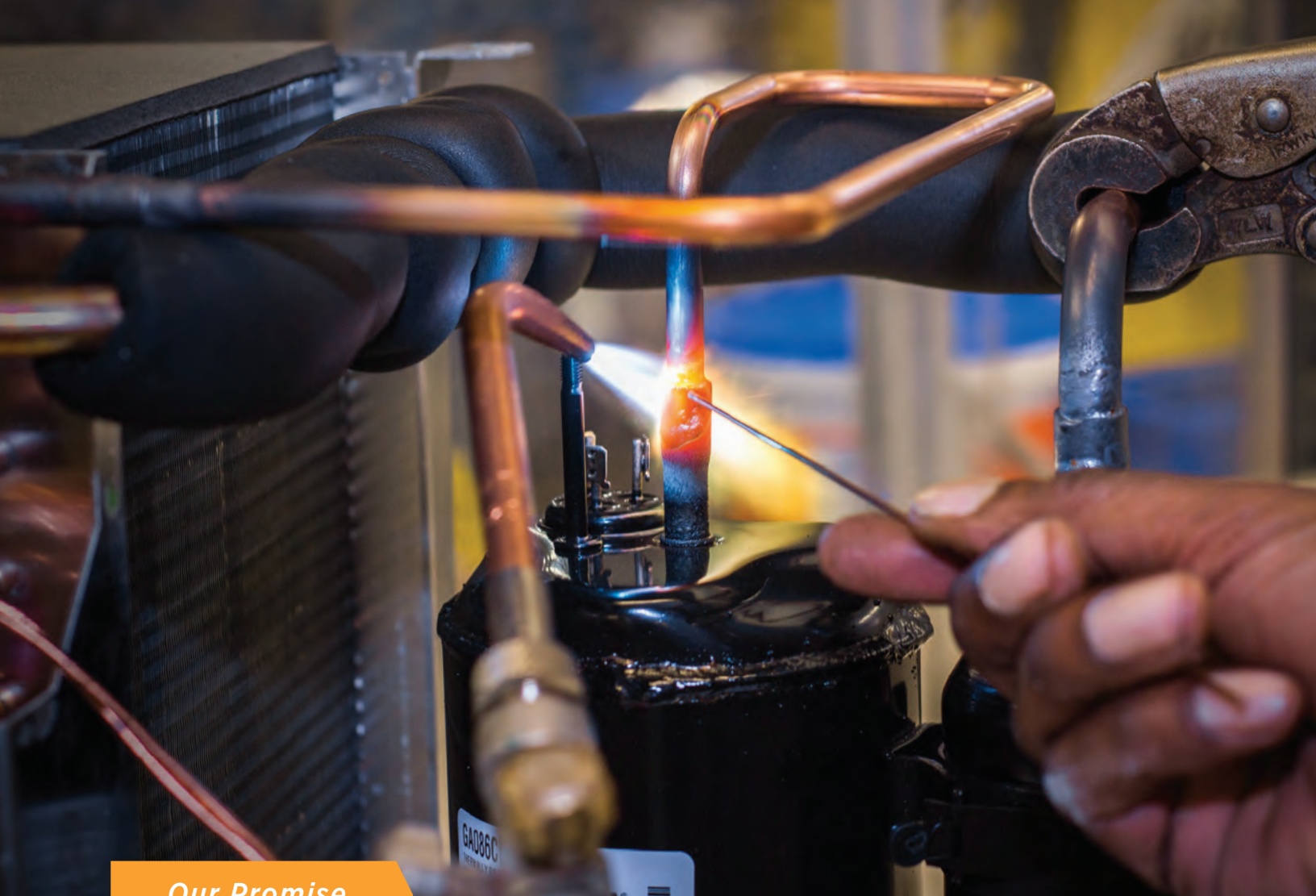
After waterproofing a basement, set your work apart by preventing moisture in all of its forms with a high-capacity Aprilaire dehumidifier. By controlling excess moisture in the home, you are providing Healthy Air that benefits the home and those living in it.

Excessive relative humidity creates conditions that viruses will thrive in and can also lead to odors, structural damage and mold in basements—many of the same issues as water intrusion. An Aprilaire dehumidifier is essential to a complete waterproofing job.

Protect your warranty and provide your customers peace-of-mind by installing high-capacity dehumidification on every job.

### BENEFITS OF CONTROLLING EXCESS MOISTURE WITH APRILAIRE DEHUMIDIFIERS

- + **Energy efficiency** – ENERGY STAR® rated models make essential moisture control affordable and may even reduce home-cooling costs.
- + **Air circulation** – Fan mode provides complete coverage of dehumidified area by circulating the air.
- + **Quiet operation** – Customers will notice moisture control without hearing the equipment.
- + **Corrosion defense** – Aluminum coils protect the refrigeration system from damaging chemicals in the air.



## Our Promise

### A TRUSTED LEADER

*Delivering comfortable, healthier indoor air has been our business at Research Products Corporation, the parent company of Aprilaire, since 1954. That's when we first began to design, manufacture and distribute quality products that improve the indoor air of homes and businesses throughout North America.*

*Over the years, the Aprilaire brand has been synonymous with high quality and reliability. Our reputation was built on a foundation of comprehensive testing programs performed by our engineers. The skills and equipment we've acquired have become one of our most valuable resources to assure the delivery of consistent, quality product.*

### Rigorous Testing

- + Highly Accelerated Life Testing (HALT)
- + Highly Accelerated Stress Screening (HASS)
- + Environmental Testing: Temperature and Humidity, Thermal Cycling, Coil Corrosion
- + Electrostatic Discharge: IEC 61000-4-2
- + Electric Fast Transients: IEC 61000-4-4
- + Surge: IEC 61000-4-5
- + Power Quality Factor: IEC 61000-4-11
- + Surge Ring: ANSI C62.41
- + Data Acquisition Design and Set-Up to Monitor Performance
- + Air Filter/Air Cleaner Testing: ASHRAE 52.2
- + 100% Functional Testing on Dehumidifier Production Line
- + UL/IEC 60335 Safety Testing
- + Performance Testing
- + Fan Curve
- + Dehumidification Capacity and Efficiency: 10 CFR 430, Subpart B, Appendix X1





# Quality

**Through continuous improvement, Aprilaire provides high-quality products and services that meet or exceed our customers' expectations.**

## OUR QUALITY OBJECTIVES

- + To baseline, control and improve the quality of critical manufacturing processes. Improvement is measured through x-bar and Cpk assessments via sigma 6-pack analysis.
- + To establish process requirements of our critical part suppliers in order to reduce or eliminate product and service variability. Process requirements are measured through checklists, audits, supplier evaluations and supplier corrective actions.
- + To achieve a 100% on-time schedule adherence for resolving critical nonconformities.

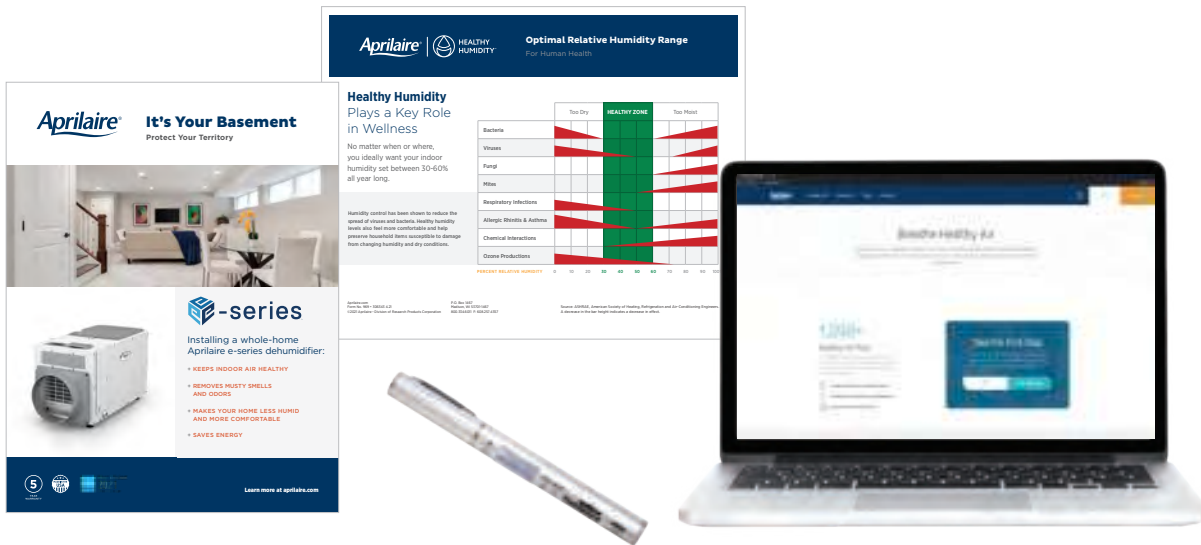


*We are proud to design and manufacture our products in the USA and distribute throughout North America.*



## Our Mission

Our mission at Aprilaire has always been to help our customers grow and prosper in their business. Through web-based training, educated sales staff and in-depth product literature, we ensure you can deliver the right dehumidification product for every application.



## TOOLS & TRAINING

### In-home literature

Let us help you sell in the home with customizable literature. This can help explain to the consumer the need for high-capacity dehumidification when waterproofing a basement.

### Web-based training and reference

We make it easy to find the tools and training you need with a website designed specifically for contractors. AprilairePartners.com is your home base for marketing materials, literature ordering and technical and sales training.

### Customized advertising and marketing programs

We offer programs that are proven to work for local service industries, and also offer choices that fit your specific business model and budget.

- + Co-op advertising funds\*
- + Hyper-local marketing programs – Direct mail, radius marketing
- + Strategies and tools to grow your business with new and existing customers

\*Available to Healthy Air Pro and Healthy Air Pro - Preferred members of the Aprilaire program. Contact your Aprilaire District Sales Manager for more information.

# What Makes E-Series Dehumidifiers Better



## Energy Efficient

Removes moisture with less energy



## Expanded Capacity

More pints per day



## Ease of Install

Supports all critical applications

## Digital Control

- Intuitive consumer RH% set point
- Top and side mounting options
- Interactive display walks you through set up options, eliminating dip switches
- Ventilation control options including ASHRAE 62.2
- Primary/secondary zoned dehumidification options
- New setting to either activate or deactivate the unit while the air conditioner is running
- Troubleshooting assistance with easy to identify diagnostic codes on the display and on back of the control cover
- Flexible control options in living space



## Duct Collar

10" in diameter with retention tabs

## Fresh Air

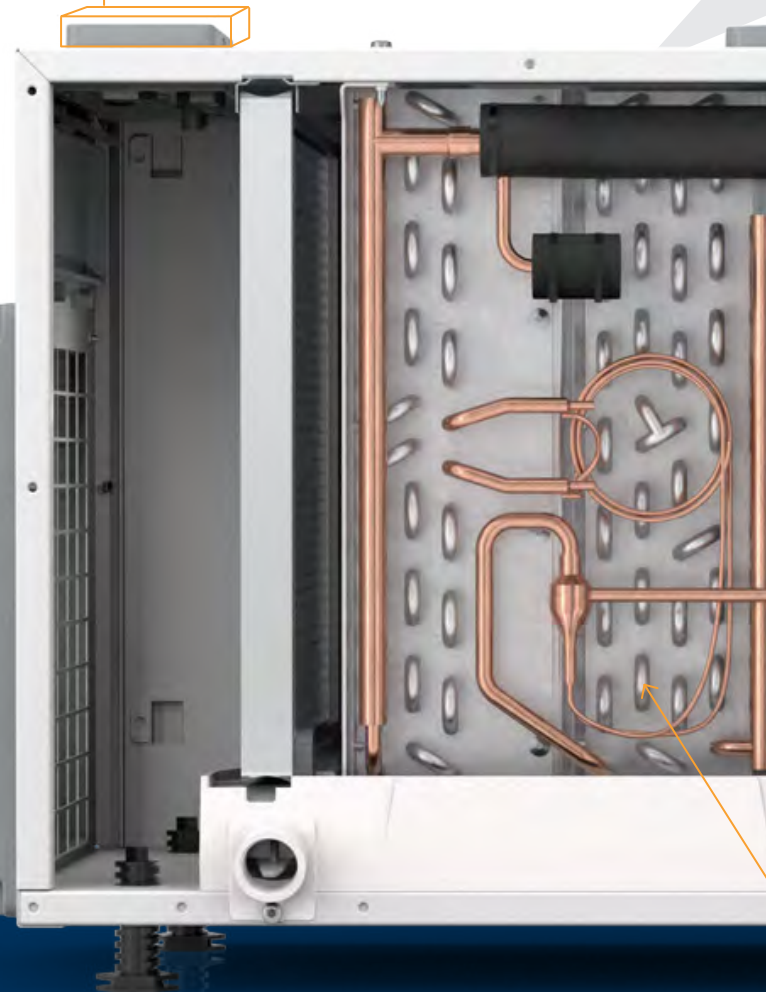
- Ability to pull fresh air into the home (per ASHRAE 62.2)
- Dehumidifies ventilated air

## Water Removal Per Day

Industry leading capacities (70-130 pint per day options)

## Whisper Quiet

Air flow managed to minimize noise while maximizing efficiency



14 W x 15" H x 26" L

Model E100 Shown

## Small Cabinet, Larger Capacity

The Models E080 and E100 have expanded capacities with a reduced cabinet size that fits into crawl spaces, scuttle openings and HVAC closets



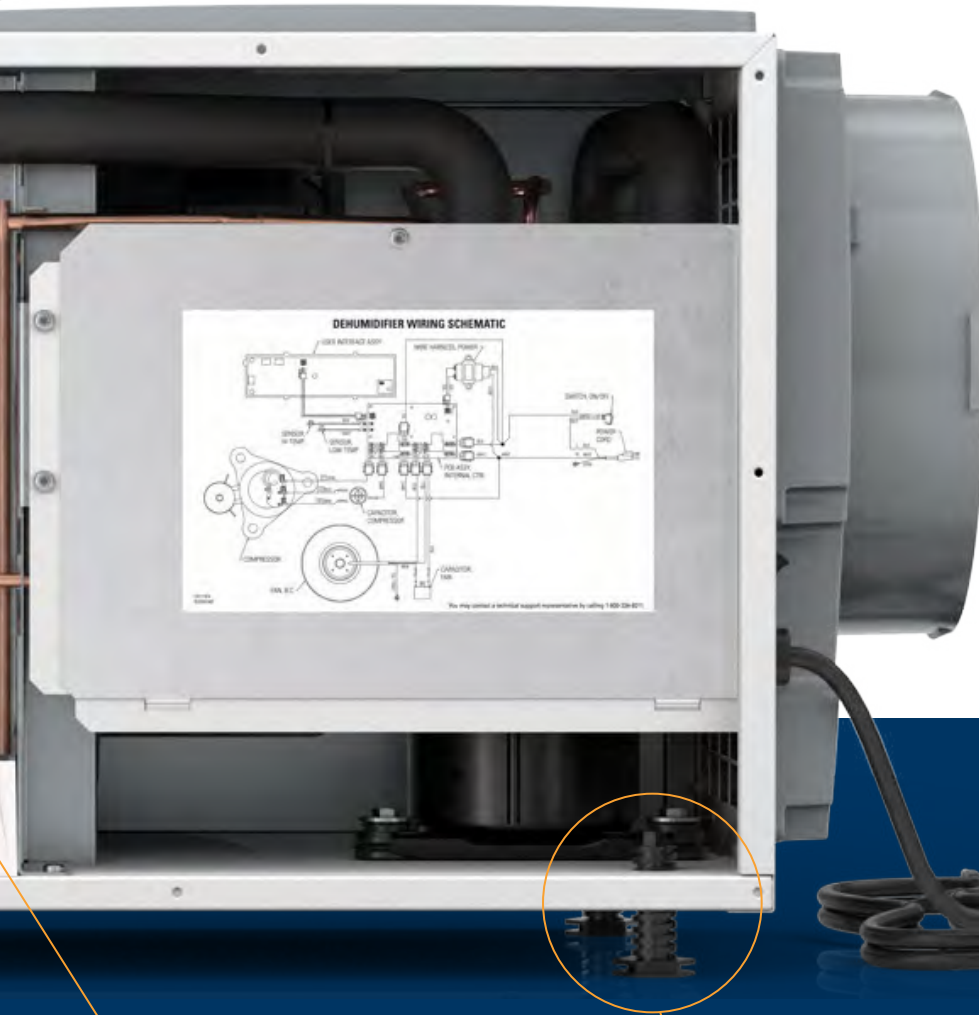


## World-Class Quality

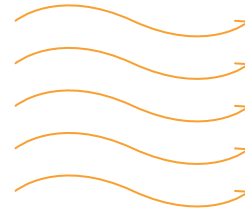
- **Aluminum coils** Protect against corrosion, extending the life of the refrigeration system
- **Manufacturing process** End of line testing with helium leak detection
- **Refrigeration design** Optimized for manufacturing, withstands severe shipping
- **Warranty** 5-year warranty and industry leading claim processing
- **Energy Efficient** E080, E100, E130 recognized as ENERGY STAR<sup>®</sup> Most Efficient for 2021.

### Accurate Installation

- Bubble level on top of unit for accurate installation



- No P-trap needed



### Corrosion Defense

Aluminum coil for complete corrosion defense

### Adjustable Feet

New robust plastic feet are easy to adjust by hand, no tools necessary



### Power Options

1. Plug the unit directly into an outlet
2. Hardwired options available

### Model Number Suffixes:

- C: Model includes casters, which adds 2 ½" height to dehumidifiers.
- CS: Model displays humidity as dew point on digital display
- H: Model designed for hardwiring applications.

### SPECIFICATIONS

Model	E070	E080 E080CS E080H
		
Capacity <sup>(1)</sup>	70 ppd	80 ppd
Energy Factor <sup>(1)</sup>	2.1 L/kW-h	2.8 L/kW-h
Airflow @ varying E.S.P. (external static pressure - dry coil)	0.0" w.c. 200 CFM 0.2" w.c. 170 CFM 0.4" w.c. 140 CFM	0.0" w.c. 185 CFM 0.2" w.c. 135 CFM 0.4" w.c. 85 CFM
Voltage, phase, frequency	120VAC, 1 phase, 60 Hz	120VAC, 1 phase, 60 Hz
Current draw <sup>(1)</sup>	5.8 Amps	6.3 Amps
Noise	53 dBA ducted	45 dBA ducted
Dimensions: (cabinet only) <sup>(2)</sup>	Width 12½" Height 12½" Length 25"	Width 14" Height 15" Length 26"
Weight	56 lbs.	63 lbs.
Inlet air operating conditions during		
-Dehumidification:	50°F-104°F, 40°F dew point min.	50°F-104°F, 40°F dew point min.
-Ventilation:	40°F-140°F, 0%-99%RH (non-condensing)	40°F-140°F, 0%-99%RH (non-condensing)

<sup>(1)</sup>Rated capacity and energy factor test done and current draw measured at 80°F/60%RH inlet air at 0.0 ESP.

<sup>(2)</sup>For actual height, add up to 2" to account for adjustable leveling feet.

### FEATURES

Model	E070	E080 E080CS E080H
Controls <sup>(3)</sup>	Built-in digital control with front mount only	Built-in digital control with top or front mounting options
Casters or leveling feet	Leveling feet	Leveling feet
Crawl space alert	N/A	N/A
Cabinet insulation	1/2" EPS	1/2" EPS
Air discharge orientation	End of cabinet only	Top or end
Inlet/Outlet duct collars	8" dia.	10" dia.
Backdraft damper at outlet	No	Included
Filter	1/2" washable, MERV 8	1/2" washable, MERV 8
Refrigerant	R410A	R410A
Coil type	Corrosion-resistant aluminum	Corrosion-resistant aluminum
8' Power cord	Plug type	Plug type
Discharge air temperature rise	10°F-30°F	10°F-30°F
Drain connection	3/4" MNPT threaded	3/4" MNPT threaded
Includes 10' drain tube	Yes	No
Warranty	5 Years	5 Years

**E100  
E100C  
E100CS  
E100H**



**E130  
E130C  
E130H**



100 ppd	130 ppd
2.6 L/kW-h	2.9 L/kW-h
0.0" w.c. 280 CFM 0.2" w.c. 245 CFM 0.4" w.c. 210 CFM	0.0" w.c. 310 CFM 0.2" w.c. 270 CFM 0.4" w.c. 225 CFM
120VAC, 1 phase, 60 Hz	120VAC, 1 phase, 60 Hz
6.9 Amps	8.3 Amps
50 dBA ducted	50 dBA ducted
Width 14" Height 15" Length 26"	Width 19½" Height 18¾" Length 30"
64 lbs.	98 lbs.
50°F-104°F, 40°F dew point min.  40°F-140°F, 0%-99%RH (non-condensing)	50°F-104°F, 40°F dew point min.  40°F-140°F, 0%-99%RH (non-condensing)

**E100  
E100C  
E100CS  
E100H**

**E130  
E130C  
E130H**

Built-in digital control with top or front mounting options	Built-in digital control with top or front mounting options
Leveling feet	Leveling feet
N/A	N/A
1/2" EPS	1/2" EPS
Top or end	Top or end
10" dia.	10" dia.
Included	Included
1/2" washable, MERV 8	1/2" washable, MERV 8
R410A	R410A
Corrosion-resistant aluminum	Corrosion-resistant aluminum
Plug Type	Plug Type
10°F-30°F	10°F-30°F
3/4" MNPT threaded	3/4" MNPT threaded
No	No
5 Years	5 Years



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