

LAYER TIMES

Volume 24

Bringing you proven and tested products since 1973





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Since 1973, Double L Group has committed to providing high-quality products and services worldwide that are based on value, customer needs, and excellent sales support. Our team of dedicated professionals are ready to help you choose the right products and answer any questions about installation. Contact us today!



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Delivering Optimal Power for Ventilation Systems

- Flexible installation
- Multiple inlets can be controlled at the same time
- Low-maintenance and low-noise
- Perfect Price/Performance Ratio
- Compact and Smart Design
- Includes emergency limits



EcoDrive 300

Part	#17001	Belt Drive
Part	#17003	Pipe Drive

Torque	300 Nm
Belt Speed	28 in./min.
Pulls	1 Belt = 809 lbs/belt
	2 Belts = 1050 lbs/belt or 2100 total
Voltage:	0.35 HP 115V 1 Phase 60hz

Available for Pipe or Belt Drive Applications

EcoDrive 90

Part 17002

Torque	90 Nm
Belt Speed	6 in./min.
Pulls	1 Belt = 750 lbs/belt
	2 Belts = 386 lbs/belt or 772 total
Voltage	24 DC



SHUTTERS



Improves Fan Efficiency and Reduces Cold Air Leakage



SHUTTER FEATURES

- Custom-sized manufacturing to meet your • specifications
- Sturdy twin-wall profile frame for extended lifespan and stability of the shutter
- Engineered for accommodating expansion and contraction
- Streamlined design to optimize airflow and reduce air infiltration into the room
- Adaptable to retrofit any existing rough opening
- Continuous hinge for each blade prevents flipping over, ensuring the blade doesn't get stuck in the open position
- Outstanding cleanability combined with durability to withstand pressure washing



BESS LAB TESTED

Based on a 30" Shutter, the EcoTight Shutter had:

21.8% MORE AIRFLOW

17.1% LESS AIR LEAKAGE

than Double L's previous PVC Shutter

(Airflow Only - No Fan) BESS Lab Tests: 16376 and 16377

SHUTTER COVER

Winterize EcoTight Shutters or Other Manufacturer's Fan Shutters with Shutter Cover



SHUTTER COVER FEATURES

- Effortlessly winterize fan shutters with no need for removal
- Effectively halts cold air leaks and prevents shutter flutter
- Boasts an R-Value of R3, due to multiple vanes in the panel
- Easily storable and light to handle during summer months
- Pre-installed flex tip U-Channel seals off from water, dirt, or air leakage
- Compatible with Eco Tight Shutter and other fan shutters on the market
- Engineered for expansion and contraction
- Custom sizes are readily available



Profiles designed for expansion / contraction and easily snap into shutter frame



MADE IN USA

HOW TO MEASURE

Double L can manufacture to your custom size

	←A>
3	

Shutter Cover Measurements are outside of flange to outside of flange

ECOTIGHT ENDWALL RACK & PINION

The EcoTight EndWall Rack & Pinion system is designed to optimize tunnel ventilation systems. It is a closed cell insulated foam tunnel door with custom lengths and stacking available.



Custom Sizes Available. Contact for Part Number

Door Thickness: 1- 3/8" Curved or Straight Rack Color Options:

- White Paneling
- Grey Paneling Available Door Sizes of 24"-60"

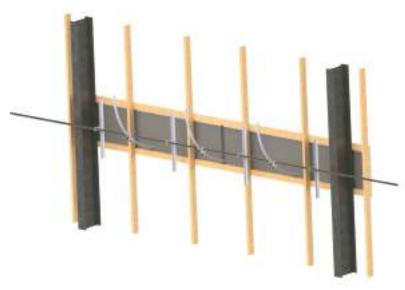
- Actuates multiple rows with one winch
- Provides maximum sealing to reduce cold-air leakage
- Eliminates freezing issues
- Efficient design that minimizes the number of actuators
- Positive attachment to the tunnel doors
- Built to custom-sized vents to maximize intake openings
- Continuously hinged door
- Durably engineered with thick schedule 40 tubing
- Allows for smooth continuous control of vent systems
- Closed Cell foam filled with vertical and slanted supports providing rigidity



Heavy Duty Actuating System

ECOTIGHT SIDEWALL RACK & PINION

The EcoTight SideWall Rack & Pinion system is designed to optimize Cross Ventilation designed systems. It is a closed cell insulated foam, PVC tunnel door that is supported with galvanized tube steel parts. Custom lengths are available.



Custom Sizes Available. Contact for Part Number

Door Thickness: 1- 3/8" Curved or Straight Rack Color: Grey Paneling Available Door Sizes of 24"-60"

- Efficient design that minimizes the number of actuators
- Positive attachment to the tunnel doors
- Built to custom sized vents to maximize intake openings
- Hi-profile gaskets for an optimum seal
- Eliminates freezing issues.
- Closed Cell foam filled with vertical and slanted supports providing rigidity
- Operated with a Heavy Duty Rack and Pinion System



WIND/SUN DEFLECTORS



Proven to be the most efficient poultry hood on the market. Designed for minimal air restriction



Deluxe DirectAire

Part 90555C

4413 / 4113 Inlet Size 48"L x 18.75"H x 12"D

WARNING!



WIND DEFLECTOR NEEDS TO BE INSTALLED TO PROTECT INLETS FROM DIRECT SUNLIGHT

WARRANTY VOID IF WIND DEFLECTOR IS NOT USED ON DIRECTAIRE INLETS



4408 / 4108 Inlet Size 48"L x 13.25"H x 8"D

- Plastic Construction for Durability
- Restricts Rain, Wind & Sun Access
- UV protected from sun rays and will not brittle over time
- Designed for minimal air restriction and only restricts the air 13.03% when the inlet is fully open (BESS Labs Test No. 17551)
- Brings in more air at a higher velocity than wood alternative
- Leads to drier litter moisture content over an extended period of time.
- Light Reflection is reduced by texturing on the hood

"I love this new hood design! It protects my inlets from the sun and the wind, and I've found my sidewall inlets operate more efficiently than my other houses with the wood and tin design."

DELUXE DIRECTAIRE INSULATED INLETS

Fully insulated sidewall inlet that is rodent and beetle resistant - no exposed insulation



Deluxe DirectAire 4413

Part 90570CH

3,266 cfm @ 0.1 SP BESS Labs Test #19260 Rough Opening: 44.5"L x 13.5"H Inlet OD: 47.25" x 16.875"

Deluxe DirectAire 4113

Part 90572CH

3,050 cfm @ 0.1 SP Rough Opening: 41.5"L x 13.5"H Inlet OD: 44.50" x 16.875"

- Utilizes an aerodynamic, curved louver blade and housing to guide fresh air along the ceiling to the peak, facilitating effective air mixing at the center.
- Outperforms conventional metal inlets in delivering more air (cfm), resulting in a reduction in the number of required inlets.
- Simple snap-together assembly ensures easy installation, cost-effective freight, and effortless cleaning and adjustment.

- Mitigates bird drafting, leading to savings on heating costs and improved bird performance.
- Ensures a complete seal against air leakage and light infiltration.
- Crafted with fully insulated PVC that is resistant to rodents and beetles, with no exposed insulation.
- Channels airflow through the inlet's opening, preventing leaks from the bottom and sides.

"Installed these inlets in my two 66' wide houses. Gives an excellent airflow pattern,and the new insulated design minimizes sweating and water buildup."



DO NOT STORE BOXES OR INLETS OUTSIDE OR IN DIRECT SUNLIGHT. IF INSTRUCTIONS ARE NOT FOLLOWED, WARRANTY WILL BE VOID.

WALL INLETS

DIRECTAIRE INSULATED INLETS

Aerodynamic, curved louver blade directs fresh air along ceiling for effective air mixing



DirectAire 4408

Part 90553CH

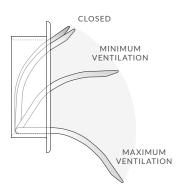
1,669 cfm @ 0.1 SP BESS Labs Test #14334 Rough Opening: 44.5"L x 8.25"H Inlet OD: 48" x 11.25"

DirectAire 4108

Part 90557CH

1,555 cfm @ 0.1 SP Rough Opening: 41.5"L x 8.25"H Inlet OD: 44.25" x 11.25"

- Curved louver blade guides fresh air to the ceiling peak, enhancing air mixing in larger poultry houses.
- PVC construction is fully sealed, preventing damage from darkling beetles.
- Outperforms metal inlets, delivering more air (cfm) and reducing the need for extra inlets.
- Airflow is directed through the inlet's opening, minimizing leaks at the bottom and sides.
- Efficiently pulls warm air from sidewalls 3 feet away, blending it with incoming fresh air during operation.





DO NOT STORE BOXES OR INLETS OUTSIDE OR IN DIRECT SUNLIGHT. IF INSTRUCTIONS ARE NOT FOLLOWED, WARRANTY WILL BE VOID.

RETROAIRE FLUSH MOUNT INSULATED INLETS

Designed to replace galvanized sidewall inlets



8" RetroAire

Part 90582

2,108 cfm @ 0.1 SP BESS Labs Test #23408 Rough Opening: 44.5"L x 8"H Dimensions: 46" x 10.75"



13" RetroAire

Part 90583

2,876 cfm @ 0.1 SP BESS Labs Test #23405 Rough Opening: 41.5"L x11.75"H Dimensions: 43" x 14.5"



Brush seal provides protection against air and light leakages



- Designed with an aerodynamic, curved louver blade that directs fresh air along ceiling to ceiling peak for effective air mixing
- Excellent substitute for galvanized doors.
- Fully insulated PVC construction resists rodents and beetles.
- Prevents wet litter by averting air leakage and condensation buildup.
- Outperforms metal inlets, delivering more air (cfm) and reducing the need for additional inlets.
- Flush mount is fully sealed against air and light.
- Directs airflow through the inlet's opening, minimizing leaks at the bottom and sides.
- Continuous hinge reduces drafts on birds, saving on heating costs and enhancing bird health.

WALL INLETS



The perfect solution for your retro-fit project.



Custom 8" RetroAire

Part 90587

Inlet OD Width: RO Width +1.5" Inlet OD Height: 10.75"

Custom 13" RetroAire

Part 90588

Inlet OD Width: RO Width +1.5" Inlet OD Height: 14.50"





Custom 8" CSW

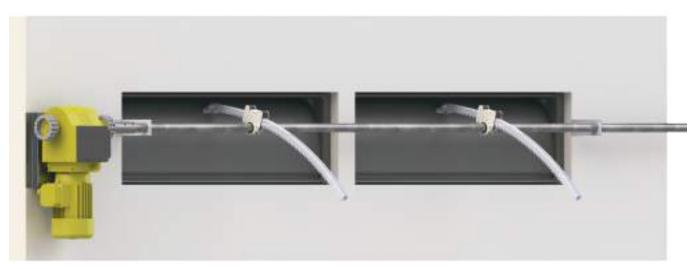
Part 90577

Inlet OD Width: RO Width +1.75" Inlet OD Height: 11.25""

- Easy installation as custom sizes can be ordered to fit existing or new rough openings
- Constructed with flush mount framing to easily through opening
- Aerodynamic curved blade design allows for efficient air mixing
- Built in insulation and continuous hinge reduces condensation & freezing
- Plastic construction is beetle resistant
- Reduces bird drafting and wet litter



Our Rack and Pinion driven inlet is engineered for optimal air throw and distribution. Its straightforward design ensures minimal maintenance requirements. The air inlet is equipped with brush seals to eliminate air leakage when closed, ensuring efficient functionality.



- Rack and Pinion Drive operated for positive precise control
- Constructed with corrosion resistant poly exterior
- Engineered as a close cell foam inlet that is non-absorbent to water
- Minimal air leakage with robust seal
- Designed with a curved blade that directs air along the ceiling to mix air at the center of the house
- Creates uniform mixing pattern
- Components are similar to the parts utilized on other Double L rack and pinion drive products
- Easier maintenance with our complete system



Front view of inlet

Multiple Sizes Available. Contact for more details.

WALL INLETS



Actuated Wall Inlet for Retrofit or New Construction

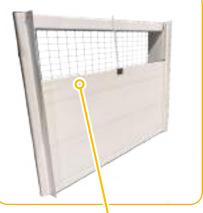


Custom Sizes Available Contact our team for Part Numbers

- Compact design provides improved clearance within the house.
- Available in various sizes, ideal for retrofitting existing openings and new construction.
- Fully insulated frame enhances R-value and minimizes condensation.
- Integrated Bird Wire enhances biosecurity, preventing fowl from entering the inlet system.



Optional directional air veins to throw air in desired patterns



DirectAire Sliding wall Open

CEILING SIDEWALL INSULATED INLETS

Insulated, aerodynamic, curved louver blade directs fresh air along the ceiling to ceiling peak for maximum air mixing



- Aerodynamic, curved louver blade directs fresh air along ceiling to ceiling peak for effective air mixing
- Proven tight seal and design minimizes air leakage resulting in reduced fuel usage
- Fully insulated blade and housing help increase insulation value
- Minimal sweating occurs on inlet in cold climates with full insulation
- All PVC construction that is resistant to corrosion and infestations

CEILING INLETS

360° INSULATED INLETS

360° airflow heavy-duty radius corner design increases fuel savings, air distribution, and air mixing



GC1140 (Gravity)

Part 90678 1,659 cfm @ 0.10 SP BESS Labs Test #14005

Rough Opening: 23.75" x 23.75" Inlet OD: 27.25" x 27.25"

AC3010 (Actuated)

Part 90671 2,050 cfm @ 0.10 SP BESS Labs Test #14006

Rough Opening:23.75" x 23.75" Inlet OD: 27.25" x 27.25"





- Heavy-duty radius corner design enables 360° airflow, enhancing fuel savings, air distribution, and mixing
- Specifically designed for cold climates with a fully insulated housing to minimize heat loss and prevent freeze-up
- Market's tightest seal, ensuring minimal leakage when the attic inlet is closed.
- Larger bottom board directs air along the ceiling, minimizing downdraft compared to the competition.
- Bottom lid is easily removable and reattachable with attachable straps, eliminating the need for bolts or screws.
- Housing crafted with four-point pivot reactive injection molding (RIM)



REDESIGNED 360° AIRFLOW INLETS

Improved GC1140 and AC3010 with super tough structural foam for added strength and insulation value



CEILING INLETS

2-WAY INSULATED CEILING INLETS

Withstand Harsh Environments and Cold Weather Conditions



JD2600 Actuated OR Gravity

Part 90841 (Gravity)

CFM: 2,490 @ 0.05 SP Bess Labs Test #05181 Rough Opening: 29" x 24.5" Inlet OD: 30.50" x 27.00"

Part 90840 (Actuated)

CFM: 2,135 @ 0.05 SP Bess Labs Test #05097 Rough Opening: 29" x 24.5" Inlet OD: 30.50" x 27.00"

- Excellently regulates airflow from minimal to maximal levels
- Effectively directs air along the ceiling for proper air mixing
- Constructed from a durable, single-piece, insulated, and corrosion-resistant rotomolded housing
- Minimize condensation, dripping, and inlet freeze-up with 1-inch thick insulated lids
- Frictionless styrofoam PVC-covered lids on a continuous PVC hinge
- Lids effortlessly swing down, allowing the entry of clean attic air into the main room
- When the lids are closed, the inlet securely seals against air leakage
- Showcases resilience in harsh environments and extreme cold weather conditions

DL INSULATED INLET SERIES

Most Efficient Air Mixing Inlet on the Market





DL3232

Part 90302P

4,144 cfm @ 0.10 SP BESS Labs Test #18564 Rough Opening: 28" x 28" Inlet OD: 32" x 33"



Part 90300

3,107 cfm @ 0.10 SP BESS Labs Test #16694 Rough Opening: 29" x 24.75" Inlet OD: 31" x 27.25"

DL4727

Part 90301

4,628 cfm @ 0.10 SP

BESS Labs Test #19572

Inlet OD: 46" x 27.25"

Rough Opening: 44" x 24.75"

DL INLET CUTAWAY

- Adaptable as a single or double pull configuration
- Effortless inlet installation with pre-installed mounting hardware
- Constructed from virgin PVC for robust durability against power washing, and fully insulated to prevent condensation
- Square design facilitates precise air movement during minimum ventilation and enables maximum CFMs in the fully-open position
- Boosts air velocity upon entry, enhancing air distribution and mixing within the room
- Rough opening designed to seamlessly fit standard filter boxes in the industry

STIR FANS

DIRECTAIRE PLUS STIR FANS

- Up 15% more CFM compared to the original DirectAire
- New rotor motor technology allowing the motor to run cooler
- Brushless motor allows for smoother operation
- IP54 motor rating
- Powder coated, steel blades
- Two speed rotor motor
- Included Mounting Bracket
- 3-Year Warranty



18" Stir Fan

Part 90718 24" diameter x 4.8" BESS Labs Test c22275

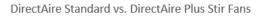
20" Stir Fan

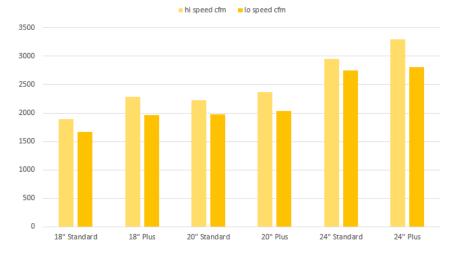
Part 90720 25.6" diameter x 5.1" BESS Labs Test c22274

24" Stir Fan

Part 90724 30" diameter x 5.6" BESS Labs Test c22273

BLADE DIAMETER	HP	VOLTS	AMPS	HZ	SPEED	LOW CFM	HIGH CFM	PHASE
18"	1/5	120	1.3	60	2	1970	2280	1
20"	1/5	120	1.3	60	2	2040	2379	1
24"	1/5	120	1.4	60	2	2810	3300	1





DIRECTAIRE STIR FANS

Steel bearings and 1/5 HP sealed motor for years of long life

- Mixes Cold Floor Air with Hot Ceiling Air
- Less Heater Cycles
- Widespread Grill Guard
- Included Mounting Bracket
- 2-speed circulation fan high and low settings
- Extra Amps to spare
- Excellent Thrust CFM
- 3-Year Warranty
- UL LISTED AND UL LISTED TO CANADIAN SAFETY STANDARDS



18" Stir Fan	20" Stir Fan	24″ Stir Fan		
Part 90618 21" diameter x 7.25"	Part 90614 22.8" diameter x 7.3"	Part 90600 29" diameter x 9"		
BESS Labs Test c22270	BESS Labs Test c22271	BESS Labs Test c22272		

BLADE DIAMETER	HP	VOLTS	AMPS	HZ	SPEED	LOW CFM	HIGH CFM	PHASE
18"	1/5	120	0.94	60	2	1670	1890	1
20"	1/5	120	1.07	60	2	1980	2230	1
24"	1/5	120	1.2	60	2	2750	2950	1

"Used the stir fans in my houses and really helped even out the temperature distribution in winter to save gas. Have had these three years and they're still working great!"



DOUBLE L POP DOOR



Custom Sizes Available. Contact for Part Number

- Solid airtight closure for house tightness
- Fully insulated to prevent condensation from entering inside wall
- Bypass wall frame allows to fully seal off opening
- Applicable with automated/manual winching system
- Various Sizes available for best fit
- Prevents determined predators from entry



Multiple Slides Option





5' Tunnel Door

Part 31102W

Door Thickness: 1-3/8" Door Dimension: 39.3" x 60"

4' Tunnel Door

Part 31101W

Door Thickness: 1-3/8" Door Dimension: 39.3" x 48"

Custom Rough Opening Sizes Available to Fit Your House

- Easy and fast installation
- Custom Sizes Available
- Unique plastic design is more durable than metal
- Continuous hinge provides maximum sealing to reduce cold-air leakage
- Ratchet Strap design provides effortless tunnel door adjustments
- · Easier to handle with its smaller door design



The DirectAire Cool Cell system is our corrosion resistant system for cooling to provide longevity, efficiency, and easy maintenance for the grower to utilize in their house.



- Unique trough design allows 20% increase in water capacity than other systems
- Durable, UV resistant, plastic design that is corrosion resistant
- Open-top design allows for visual inspection of water jets and easy access for cleaning
- Features less components for quick and easy installation
- Multiple layouts to fit your specific needs



The DirectAire Cooling pad is a meticulously crafted cooling solution with its efficiency and durability. Tailored for livestock facilities, its design ensures optimal cooling, promising years of dependable service.



DirectAire Cooling Pad

Part 31160

Dimension: 12" L x 60" H x 6" D

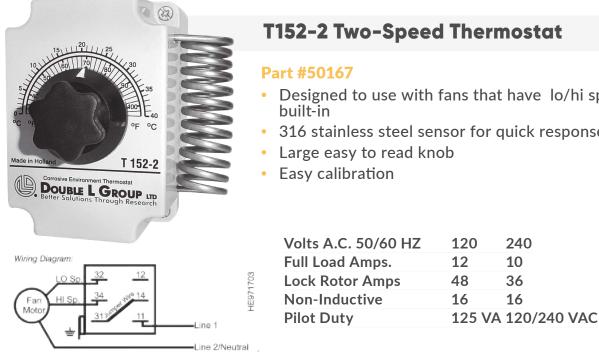
Additional Pad Heights Available. Contact for Part Number.

- Unique structure provides a larger evaporation surface aiding in an outstanding cooling efficiency
- High face velocity enables air to pass through the pad without water droplet carryover
- Specially treated for corrosion resistance, mildew resistance and high structural strength to have a long service life
- Low pressure drop ensures that high-velocity air moves through the pad with minimal resistance
- Self-cleaning design, thanks to the steeper angle of the unequal flute design, flushes dirt and debris from the pad's surface

THERMOSTATS

FAST RESPONDING THERMOSTATS

Weather proof NEMA 4x enclosure is resistant to high humidity, airborne contaminants, and most corrosive conditions. Temperatures range from 40° to 104° F.



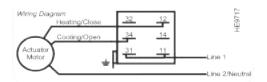
T152-C Curtain Controller Thermostat

Part #50168

- Designed to control curtain-inlet actuators on temp
- 316 stainless steel sensor for quick response •
- Large easy to read knob
- Easy calibration
- A five minute cycle timer may enhance operation of system
- Simply tie the power supply to the T152-C

Volts A.C. 50/60 HZ	120	240
Full Load Amps.	12	10
Lock Rotor Amps	48	36
Non-Inductive	16	16
Pilot Duty	125 \	/A 120/240 VAC





T152-2 Two-Speed Thermostat

- Designed to use with fans that have lo/hi speed
- 316 stainless steel sensor for quick response

SINGLE STAGE THERMOSTAT

Designed to provide precise control of heating, cooling, and ventilation systems



Adjustable knob allows for easy recalibration

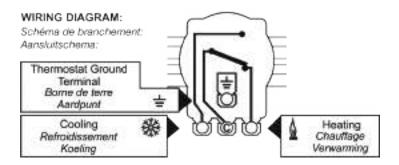
TH415

Part 50165

Temperature Range: 40° to 104° F (4° to 40° C)

- Designed to provide precise control of heating, cooling, and ventilation systems in corrosive environments
- Fast responding stainless steel sensor resists corrosion
- Adjustable dial for simple calibration in the field
- Accurate temperature control with long life in livestock confinement buildings
- Water-resistant NEMA 4x enclosure resists airborne contaminants

Volts A.C. 50/60 HZ	120V	240V
Full Load (inductive)	12A	10A
Lock Rotor Amps	48A	36A
Full Load Amps (resistive)	16A	16A
VA Pilot Duty (VA/Watts)	125	125





LAYER DIVISION

- Wall and Ceiling Inlets
- Wind Deflectors
- PVC Shutters
- 1/5 HP Stir Fans
- Thermostats
- Winches
- Cool Cell System
- Rack & Pinion
- Pop Out Doors

SWINE DIVISION

- Attic and Wall Inlets
- Ductwork
- PVC Shutters
- Flooring
- Pig Mat
- Curtain Pockets
- Thermostats
- Accessories
- Winches

POULTRY DIVISION

- Attic, Wall and Ceiling Inlets
- Tunnel Doors
- Hoods / Wind Deflectors
- Cool Cell System
- 1/5 HP Stir Fans
- Linear Actuator
- Thermostats
- Flooring
- Winches

Since 1973, Double L has committed to providing highquality products and services worldwide that are based on value, customer's needs, and excellent sales support.

Double L Group, LLC strives to provide our distributors and customers with innovative products that offer the best return on investment.

- **CONTACT DOUBLE L FOR:**
- High Quality Materials and Products
- Quality Design for Compact Shipping
- BESS Lab Testing of Ventilation Products
- Exceptional Service on all Products
- Informative Website with Informational Product Videos

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