



Quality Tools for Smart Cleaning™

HiFlo™ PUREWATER CLEANING SYSTEM

Professional Cleaning Systems

CarbonTec System

HiFlo™ Advance

DI System

MultiLink System

PureWater Kits

PureWater Accessories

Solar Panel Cleaning



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Quality Tools for Smart Cleaning™

One System – Three Components

The NEW Unger HiFlo Gooseneck MultiLink System

With the HiFlo™ MultiLink Gooseneck system, all Unger brushes can be attached to all pole systems, thereby allowing multiple angles and distances to be achieved, making the safe and thorough cleaning of hard to reach surfaces possible.

Choose your Pole, MultiLink Gooseneck and Brush in any combination.

1 HiFlo™ Brushes
Unger brushes are made from various materials with spliced or whole bristles, forming the HiFlo brush system.

2 HiFlo™ MultiLink Gooseneck System
Connects all three pole systems with all brushes - numerous combinations and angles are possible.

3 HiFlo™ Pole Systems
Three pole systems, up to 65 feet in height. The perfect solution for every purpose.

HiFlo Advanced

HiFlo CarbonTec Telescopic

HiFlo CarbonTec

HiFlo MultiLink CarbonTec Adapter
This connects the HiFlo CarbonTec pole to the MultiLink Goosenecks.

HiFlo™ CarbonTec

HiFlo™ CarbonTec Telescopic Pole

Flexible and long carbon fiber telescopic poles that can reach up to 65'. Comes complete with Hoselock Connector, Internal Hose & Aluminum Adapter. Ready to use with the new MultiLink Gooseneck System.



- Safely clean up to 65' high without ladders from the ground.
- Significant time savings: no setup times for ladders or lift trucks.
- Easily adjustable clamp system.
- Twice as fast as conventional glass cleaning.
- Saves money: lower rental and personnel costs.
- Pole sections made of strong and sturdy carbon material.
- Internal ErgoLite hose, including standard hoselock connector. 13' of extra hose when pole is fully extended.



HiFlo™ CARBONTEC TELESCOPIC POLES

Item No.	Version	Sections	Size	Material	Pole Weight	Hose Weight	Gross Weight	Hose Length
UF5XC	HiFlo™ CarbonTec Telescopic	9 sections	45 ft.	Carbon	10 lbs.	2 lbs.	12 lbs.	58 in.
UF6XC	HiFlo™ CarbonTec Telescopic	9 sections	55 ft.	Carbon	11 lbs.	2 lbs.	14 lbs.	66 in.
UF7XC	HiFlo™ CarbonTec Telescopic	10 sections	65 ft.	Carbon	15 lbs.	3 lbs.	18 lbs.	79 in.

HiFlo™ CarbonTec System

The best professional Waterfed pole system on the market reaches up to 50'. Quality engineered and manufactured in Germany, the patent pending carbon fiber system is modular and extremely rigid and lightweight.

- Set-up times for ladders or lift trucks are eliminated.
- Twice as fast as conventional glass cleaning.
- Lowers rental and personnel costs.
- Top quality - all poles are inspected and quality tested.
- Poles are made of strong, yet lightweight carbon fibers.
- Flexible cleaning height is achieved by adding or subtracting poles while cleaning.
- Water flow is easy to control with unique "Any Position" waterfeed connector.
- High-quality brush with nylon bristles to remove dirt without streaking.
- Optional Boar's Hair Brush for aggressive, superior scrubbing power.

HiFlo™ CARBONTEC SYSTEM

Complete kit consisting of poles and all accessories.



Part No.	Contents	Pole Weight	Case Qty.
CTKU3	Complete Gear Bag (50' Kit): Contents: 10 CT15B, 1 FTMGS, 1 CT27A, 1 FTGOA, 1 CTBA2, 1 CTWFC, 1 CTU30, 1 CTECP	16.5 lbs	1
CTKU6	Complete Gear Bag (30' Kit): Contents: 6 CT15B, 1 FTMGS, 1 CT27A, 1 FTGOA, 1 CTBA2, 1 CTWFC, 1 CTU30, 1 CTECP	9.9 lbs	1

HiFlo™ Advance • DI System

HiFlo Advance Waterfed Poles

The new HiFlo Advance poles by Unger allow you to work safely up to 33' height, and are easily adjustable in the process.

- Perfect for lighter duty applications and residential cleaning.
- Lightweight, very strong and solid.
- A variety of brushes for all applications available.
- Fiberglass material, or hybrid material (carbon + fiberglass – extra strong!)
- Angle adapter adjusts brush head to optimum cleaning angle with a twist of the knob.
- Flip-lock clamps work with one-hand operation. Flip open, adjust to desired length, and snap closed to lock securely.
- Lengths range from 5' – 33'.



HiFlo™ ADVANCE WATERFED POLES

Part No.	Product	Size
UF52G	4-section, fiberglass complete	5' - 17'/152 - 518 cm
UF70G	5-section, fiberglass complete	6' - 23'/183 - 701 cm
UF84G	6-section, fiberglass complete	6' - 27.5'/183 - 838 cm
UF1XH	8-section, fiberglass/carbon hybrid complete	6' - 33'/183 - 1005 cm

HiFlo DI225 System

With the "Plug-and-Play" DI system you are ready to clean within minutes. De-Ionization with the DI225 produces Pure Water without any traces of soot or minerals that would leave spots or residue on cleaned surfaces. Use for spot-free results on windows, awnings, exterior building cleaning and any heavy-duty cleaning job.

- "Plug-and-Play": Just attach water hose and pole system, turn on, and start cleaning.
- Battery operated TDS meter monitors the water quality to indicate when to change resin.
- Wheeled cart makes moving and using the system strain free.



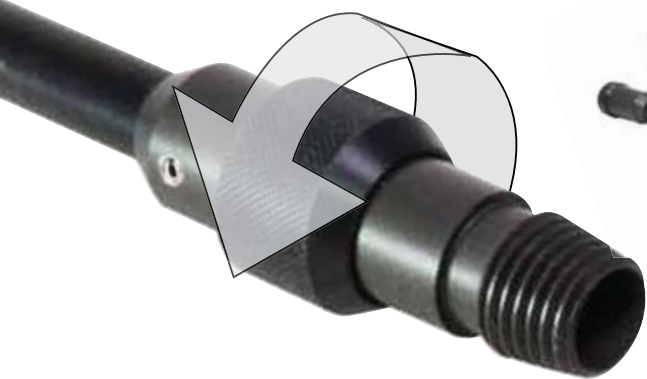
HiFlo™ DI225 SYSTEM - COMPLETE			
Part No.	Contents		Case Qty.
DI52K	HiFlo DI225 System Kit with 17' Advance Waterfed Pole (UF52G)		1

HiFlo™ DI225 SYSTEM - COMPLETE			
Part No.	Contents	Size	Case Qty.
DI225	HiFlo DI225 System	600 gal./2250l	1
DIR22	Resin Refill for DI225 Cartridges (Box of 2 bags)	9 lbs./4 kg	1
DIC22	Resin Replacement Cartridges for DI225 (Box of 2)	20"/51 cm	1

MultiLink System

Cleaning Adapters That Create Nearly Any Angle

Connects any HiFlo Pole with any HiFlo Brush so nearly every working angle or distance can be achieved. Various combinations perfectly adjust your HiFlo Pole to your individual work requirements.



Adjust and Lock Brushes in Any Position through 360 degrees!



- The CarbonTec Adapter brings HiFlo CarbonTec to the standard thread diameter so that all MultiLink Goosenecks and HiFlo Brushes are compatible.
- Two MultiLink Goosenecks are available in short or long reach versions.
- MultiLink Extension can be combined with Goosenecks to extend the reach.
- The HiFlo MultiLink Cone Adapter allows the attachment of the ErgoTec Locking Cone and a multitude of classic cleaning tools, such as squeegees, washers and scrapers.
- All MultiLink adapters are made of robust hard anodized aluminum.

HiFlo™ MULTI LINK GOOSENECK



- Aluminum angle adapter.**
- Hard anodized aluminum, secure connection.
 - Add 2 or more together to create your perfect angle.

Part No.	Size	Case Qty.
FTMGS	Short	1
FTMGL	Long	1

HiFlo™ MULTI LINK CARBONTEC ADAPTER



- Aluminum adapter that brings HiFlo CarbonTec Poles to the diameter of MultiLink.**
- Hard anodized aluminum, secure connection.
 - Includes water outlet, connector and 36" hose.

Part No.	Case Qty.
FTGOA	1

HiFlo™ MULTI LINK EXTENSION



- Aluminum extension adapter.**
- Hard anodized aluminum, secure connection.
 - Extend the MultiLink Gooseneck to reach farther.
 - Can be combined with all MultiLink Goosenecks.

Part No.	Case Qty.
FTPLS	1

HiFlo™ MULTI LINK ADAPTER



- Plastic angle adapter with screw adjustment.**
- Simple to adjust.
 - Fits all HiFlo Brushes.

Part No.	Case Qty.
FTGOS	1

HiFlo™ MULTI LINK Y-ADAPTER



- Attach two tools to one pole.**
- Solid anodized aluminum.
 - Fits on all HiFlo™ and TelePlus™ Poles with AFAET adapter (see page 6).
 - Quick tool change by turning the pole.

Part No.	Case Qty.
FTYAD	5

HiFlo™ MULTI LINK CONE ADAPTER



- Aluminum adapter for window cleaning tools.**
- ErgoTec® Locking Cone fits securely – all classic tools can be connected to the HiFlo Poles.
 - Fits on all MultiLink Goosenecks and extensions.

Part No.	Case Qty.
FTCLA	1

PureWater Kits

Convert Existing Aluminum Poles Into a PureWater Cleaning System.

Attaches to ANY Unger TelePlus™ or OptiLoc™ Pole!

Existing Unger aluminum pole owners can upgrade to a HiFlo PureWater cleaning system. The new HF40K kit includes everything needed for a simple conversion. The key component is Unger's new HiFlo Thread Adapter (AFAET), which connects old with new. The CTU40 40' hose is ready to connect to any purewater system and is equipped with a quick-connect adapter for use with Unger's HiFlo DI225.

HF40K - Aluminum Pole PureWater Conversion Kit Includes:

- FTS27 - HiFlo™ 11" Rectangle Brush
- FTGOS - HiFlo™ MultiLink Adapter
- AFAET - Thread Adapter for Aluminum Poles
- CTU40 - 40' HiFlo™ Hose (w/ DI225 connection)



ALUMINUM POLE PUREWATER CONVERSION KIT			
Part No.	Product		Case Qty.
HF40K	Aluminum Pole PureWater Conversion Kit		1
Kit Contents	Product	Description	Kit Qty.
FTS27	HiFlo Rectangle Brush - 11"	11" non-abrasive polyester bristle brush	1
FTGOS	HiFlo MultiLink Adapter	Plastic angle adapter with screw adjustment - Fits all HiFlo brushes	1
AFAET	HiFlo Thread Adapter for Aluminum Poles	Adapter connects aluminum poles to angle adapter	1
CTU40	HiFlo Hose - 40'	40' HiFlo water hose - nickel plated brass fittings	1

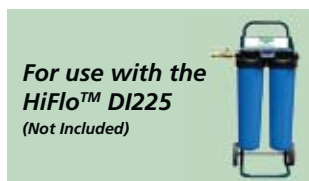
Aluminum Pole PureWater Cleaning Systems - Complete Kits

Unger offers a complete PureWater Cleaning system in four aluminum pole lengths: 12', 18', 24' and 30'. All kits work with the HiFlo DI225 System and include these components:

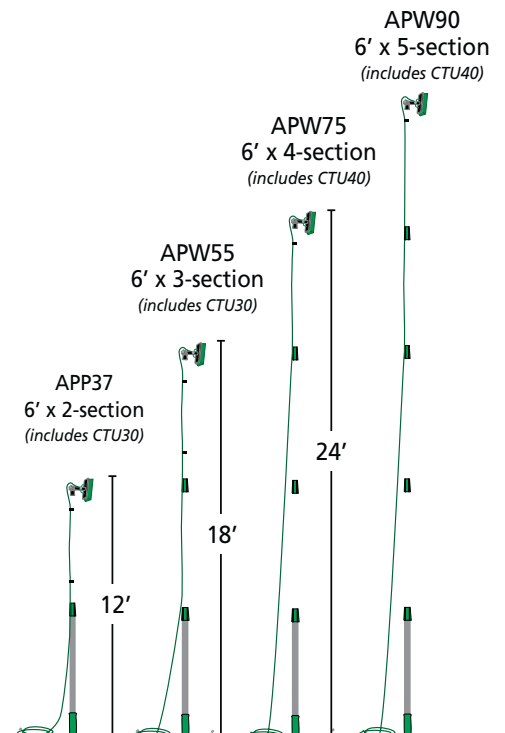
- FTS27 - 11" HiFlo Rectangle Brush
- FTGOS - HiFlo MultiLink Adapter
- AFAET - HiFlo Thread Adapter
- CTU30 - HiFlo CarbonTec Hose Kit - 30' (for 12'/18' kit) or CTU40 - HiFlo CarbonTec Hose Kit - 40' (for 24'/30' kit)

ALUMINUM POLE PUREWATER KIT - COMPLETE KITS

Part No.	Sections	Size	Case Qty.
APP37	2	12'	1
APW55	3	18'	1
APW75	4	24'	1
APW90	5	30'	1



Included Components:



PureWater Kits

Build Your Own Aluminum Pole PureWater Cleaning System

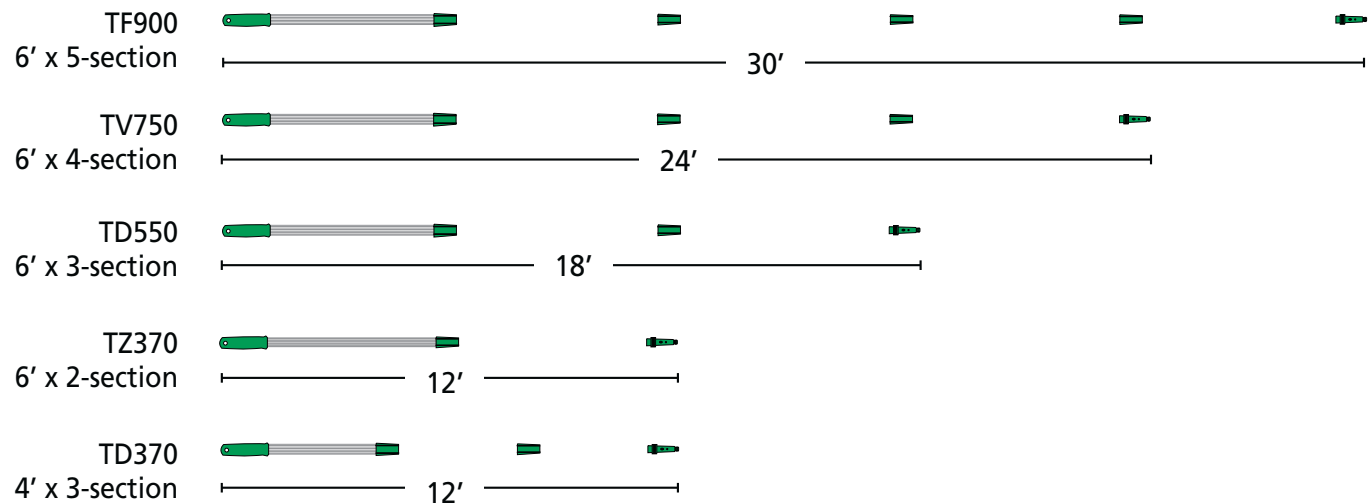
You can customize your own PureWater Cleaning system by purchasing the following components:

- An aluminum pole
- A Gooseneck accessory
- A brush

Required Accessories:

- HiFlo DI225
- CTU30 or CTU40 (depending on pole length)
- AFAET HiFlo Thread Adapter

Step 1: Choose your pole.



Step 2: Choose your Gooseneck accessories.



Step 3: Choose your brush.



PureWater Accessories

HiFlo™ MultiLink Y-Adapter

Two Tools on One Pole!


- Solid anodized aluminum.
- Tool can be adjusted for the right angle.
- Fits on all HiFlo™ – Poles and on TelePlus™ with AFAET adapter.
- Quick tool swap by turning the pole.
- Special scrub pad for removing tough soils.



The Y-Adapter works both outdoors and indoors. Perfect for switching tools while working on high access windows and skylights.

New Products Available from Unger

ALUMINUM PAD HOLDER




Pad holder with swivel head easily glides across windows.

- Attach to Unger pole with thread adapter AFAET.

Part No.	Case Qty.
PHH20	5

MICROFIBER WASHING PAD




8" pad for window cleaning.

- Best cleaning with minimal drag.
- Use with pad holder PHH20.

Part No.	Case Qty.
PHW20	5

MICROFIBER POLISHING PAD




8" pad for window cleaning.

- Leaves windows residue- and streak-free.
- Use with pad holder PHH20.

Part No.	Case Qty.
PHP20	5


HiFlo™ THREAD ADAPTER



Adapter connects aluminum poles to pad holder.

Part No.	Case Qty.
AFAET	5

SCRUB PAD




Special scrub pad for removing tough soils.

- Optimal for outdoor cleaning.
- Use with pad holder PHH20

Part No.	Case Qty.
OPS20	10

HiFlo™ MultiLink Cone Adapter



Attach two tools to one pole.

- Solid anodized aluminum.
- Fits on all HiFlo™ and TelePlus™ Poles with AFAET adapter.
- Quick tool change by turning the pole.

Part No.	Case Qty.
FTYAD	5

PureWater Accessories

HiFlo™ MULTILINK BOAR'S BRISTLE BRUSH WITH ADAPTER



- Back made of mahogany – extra strong, no warping.
- Extra cleaning power due to bristles.
- Complete with 1 FTCBA adapter, 2 jets, 1 T-piece and 2 short hoses.

Part No.	Size	Case Qty.
CB27A	11"/27 cm	1
CB40A	16"/40 cm	1

HiFlo™ MULTILINK BRUSHES WITH ADAPTER



- Special nylon mono-filament bristles designed for glass cleaning with pure water.
- Nylon gray monofilament bristles.
- Complete with 1 FTCBA adapter, 2 jets, 1 T-piece and 2 short hoses.

Part No.	Size	Case Qty.
CT27A	11"/27 cm	1
CT40A	16"/40 cm	1

HiFlo™ OVAL BRUSH



- 16" brush is optimal for large surfaces.
- Non-abrasive, polyester bristles.
- Oval shape is maneuverable over unseen surfaces.

Part No.	Size	Case Qty.
FTO40	16"/40 cm	1

HiFlo™ RAIDUS BRUSH



- 11" brush is angled for optimal cleaning around frames and obstacles.
- Non-abrasive, polyester bristles.
- Provides better contact with window panes.

Part No.	Size	Case Qty.
FTR27	11"/27 cm	1

HiFlo™ RECTANGLE BRUSH



- 11" brush for large surfaces.
- Non-abrasive polyester bristles.
- Square edges are good for corners.

Part No.	Size	Case Qty.
FTS27	11"/27 cm	1

HiFlo™ CARBONTEC BOAR'S BRISTLE BRUSH



A super lightweight brush with aggressive premium grade natural boar's hair.

- Back made of mahogany – extra strong, no warping.
- Extra cleaning power due to boar's bristles.

Part No.	Size	Case Qty.
CB27B	11"/27 cm	1
CB40B	16"/40 cm	1

HiFlo™ CARBONTEC BRUSHES



Nylon gray monofilament bristles with solid plastic back. Prepared for MultiLink Brush adapter.

- Special nylon monofilament bristles are designed for glass cleaning with pure water.
- Polyester bristles retain shape.

Part No.	Size	Case Qty.
CT27B	11"/27 cm	1
CT40B	16"/40 cm	1

HiFlo™ CARBONTEC HOSE KIT



Connects the CarbonTec System to water source.

- Nickel-plated brass connection.

Part No.	Size	Case Qty.
CTU15	15'/4.5 m	1
CTU30	20'/9.0 m	1
CTU40	40'/12.0 m	1

HiFlo™ KIT



For cleaning siding, boats, minivans, etc.

- Use with any telescopic pole.

Part No.	Size	Case Qty.
HF100	HiFlo Kit	1
HF010	64 Tablets	1
HF120	HiFlo Brush	1



Quality Tools for Smart Cleaning™


Solar Panel Cleaning

Professional Cleaning of Solar Panels

HiFlo PureWater cleaning is the most efficient cleaning solution for solar panel systems. When cleaning with HiFlo Systems it is possible to produce up to 30% more solar yield!



Immediately visible cleaning results – Cleaning with HiFlo™ Systems removes soil quickly and easily.



Environmentally Friendly

- In commercial or industrial environments where solar panels are prone to heavier soiling, the use of HiFlo CarbonTec System leads to the biggest energy savings.
- On mixed glass/solar panel facades, HiFlo CarbonTec has two advantages: optimum accessibility and high cleaning efficiency.

HiFlo PureWater Cleaning System Benefits:

- Solar panel systems are not self cleaning.
- Wind and rain continually deposit dirt, dust and soot particles on solar panels. Rain will wash some of the loose dirt off but also adds new dirt particles to the stubborn dirt that remains behind.
- Increase of solar light absorption time, soiled solar panels are slower to switch on with delayed absorption and lower efficiency.
- Regular cleaning with HiFlo Systems will help prevent burning in dirt or surfactants to the panels.
- HiFlo Systems allow quick and easy cleaning of panel glass and frames without stripes or residue.
- The Unger HiFlo System cleans with pure water and without chemicals – high cleaning effectiveness, no damage to the panels.

HiFlo™ Advantages

Worker Safety – No ladders needed! Work from the Ground.

For most applications, the dangerous use of ladders is not necessary – this results in safer working conditions for cleaners.



Pure Water Cleans Without Chemicals

The use of Pure Water eliminates the need for harmful cleaning chemicals. This results in a safer, chemical free workplace for cleaners and no harmful chemicals destroying our environment. Green Cleaning!



Waterfed Poles Increase ROI Over Lift Rentals

Renting a lift is an expensive recurring cost to get the jobs done. Investment into a HiFlo PureWater System does not incur major additional costs and can be used for years.

- 1 day lift rental cost: **\$400**, 10 day cost: **\$4,000**, 30 day cost: **\$12,000**
- Equipment investment high end system (DI225 + 50' modular CarbonTec Pole System) **\$4,800**
- Equipment investment economy system (DI225 + 27' Telescopic Advance Pole System) **\$1,500**



Insourcing vs. Outsourcing Your Cleaning Jobs

With inexpensive operating costs, insourcing your cleaning jobs using the HiFlo PureWater Cleaning Systems has a very attractive cost-saving potential.

Compare your last window cleaning invoice to the investment cost of a new PureWater Cleaning System. In most cases the cost of ownership is realized after one or two cleaning jobs.

