



Quality Tools for Smart Cleaning

nLITE®
**HYDRO
POWER**

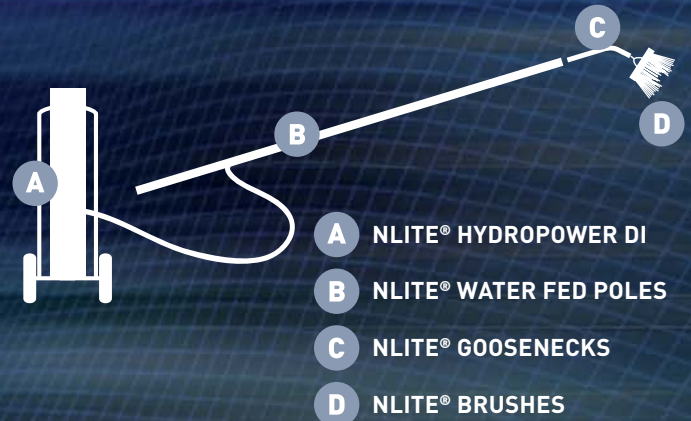
**The Most Efficient Pure
Water System Ever!**



nLite® Water Fed Pole System

Light, modular and easy to use, our **nLite®** System sets a new benchmark in professional cleaning technology.

Suitable for cleaning of glass and building facades, stainless steel, solar panels, signage and vehicles, the innovative system includes everything you need to clean at heights of up to 20 m (65 ft) high safely from the ground.



UNGER nLite® is a modular system.

The individual components can be combined to create a system that perfectly fits personal requirements.



WATER FED POLES

With 6 grades of material to choose from, the **nLite®** range provides the perfect balance between weight and rigidity.



BRUSHES

Superlight **UNGER** Brushes are designed to get into the smallest corners and lift dirt from surfaces with a highly effective scrubbing action. The **nLite®** Brush stock features cutting edge engineering and design, with a porous core and smooth solid exterior skin it offers enhanced structural stability and lighter weight than solid brush block manufacturing.



GOOSENECKS

Strong carbon fibre angle adapters enable you to achieve any working angle, keeping weight to a minimum.

nLITE® HYDRO POWER

Unparalleled efficiency: the nLite® HydroPower DI Filter

Inspired by our customers and packed with the latest patented design innovations, **nLite® HydroPower DI** Filters offer a wealth of benefits for professional window cleaners (and everyone who works or cleans with pure water).

nLite® HydroPower DI

nLite® HydroPower DI Filters exceed standard DI filter efficiency, performance, workflow and comfort thanks to these new features::

- **FloWater™ Technology**
- **QuickChange™ Resin Bags**
- **FastLock™ Opening**

THE UNGER QUICK CHANGE™ RESIN BAGS

Replace the resin in seconds with our latest innovation - pre-packed, ready to use resin bags. See overleaf for details.



VIDEO:



How to Clean with
Pure Water



The nLite® HydroPower DI System

Efficiency

Advanced design of **nLite® HydroPower DI** Filters will help you to reduce operational costs and increase the profitability of your business.

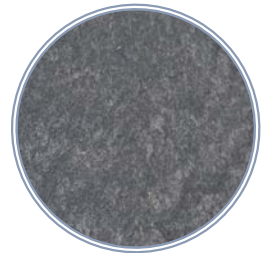
Ease of Use

Simple to operate and offering a hassle-free way of changing the resin, **nLite® HydroPower DI** Filters set a new benchmark in user-friendly DI filter design.



FastLock™ Opening

Easy & quick opening of the vessel. Features pressure release valve.



ALTECH® NXT PP

Made from highly robust, rigid, superlight mix of glass fibre and polypropylene.



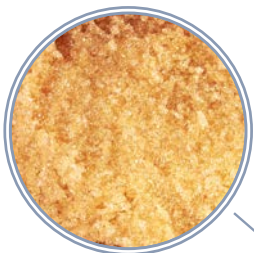
QuickChange™ Resin Bags

Change the resin in seconds - anytime and anywhere!



FloWater™ Technology

Ensures more efficient water flow through the entire vessel, improving resin efficiency and increasing its lifetime.



Unrivalled Performance: Designed for Efficiency

Time is money. The innovative ideas behind the design of the **nLite® HydroPower DI Filters** have been inspired by this business philosophy. Here's a rundown on how **nLite® HydroPower DI Filters** can help you and your team to achieve more in less time and at lower cost.

INCREASED EFFICIENCY:

FloWater™ Technology, the innovative water distribution system ensures more efficient water flow through the entire vessel, improving resin efficiency and increasing its lifetime. Greater efficiency results in costs savings through:

- Increased resin lifetime.
- Reduced resin consumption.
- Labour efficiency due to less frequent resin change.

TIME SAVING:

- The new **QuickChange™ Resin Bags** speed up the filter refill process by **up to 10 times*** in comparison to standard DI systems.
- **FastLock™ Opening** enables you to open and close the filter quickly, with minimum effort.

*Compared to standard DI systems (e.g. UNGER DI400, DI140)
Source: UNGER R&D

COMPATIBLE WITH LOOSE RESIN:

The **nLite® Hydro Power DI Filters** can also be filled with loose resin, retaining the high efficiency enabled by **FloWater™** technology.

If like many other users you prefer the loose resin option, you will find that the large diameter vessel enables you to fill, empty and refill the filter easier and faster.

Whilst fully compatible with most ion exchange resins available on the market, for maximum efficiency we recommend using **UNGER High Capacity Premium Grade Virgin Mixed Bed Resin** due to its optimal density and moisture content.

Supplied in a 25 L bag (DIB25) or 25 L bag in a re-sealable bucket (DIP25), **UNGER Resin** is available to order from Approved Unger Dealers.

Please refer to the User Manual for further details.

The ingenious **QuickChange™ Resin Bags** allow users to speed up the resin change process by up to 10 times - simply remove the bag with expired resin and insert a new one. The new **QuickChange™ Resin Bags** offer fast and easy resin replacement on the spot with minimal mess - anytime and anywhere!

QUICK CHANGE™ RESIN BAGS



- Resin change process is now as simple as changing coffee pods in a coffee machine.
- No need for time-consuming emptying, rinsing and filling up of narrow filter vessels.
- Each bag is made from a water-permeable material and contains a pre-proportioned amount of **Unger High Capacity Premium Grade Virgin Mixed Bed Resin**.

nLite® HydroPower DI:

A multitude of innovative features

SIMPLE AND EFFECTIVE



FastLock™ Opening

- Easy opening and closing.
- Safe self-locking mechanism.
- Features pressure release valve.



Removable cover

- Includes stop mechanism to prevent loose resin from leaking with outgoing water flow.



TDS Monitor

- For instant measuring of the outgoing water hardness.

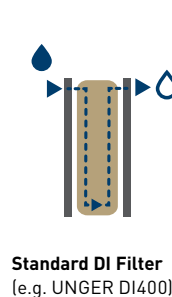


Standard Hose Fittings

- Reliable quick release connectors, suitable for most hosedlock type fittings commonly used on most water fed poles and systems.

FLOWATER™ TECHNOLOGY

The innovative water distribution system ensures more efficient flow through the entire vessel, improving resin efficiency and increasing its lifetime.

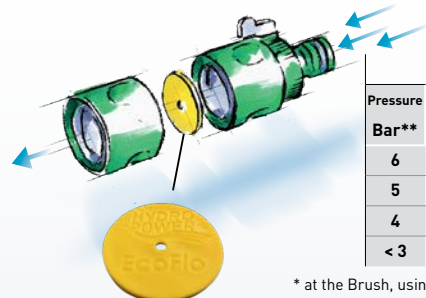


NEW
nLite® HYDRO POWER Filter:
HIGHER EFFICIENCY

HYDRO POWER ECOFLO – THE WATER FLOW OPTIMISER

NEW

Exclusively for nLite® HydroPower



Pressure Bar**	Pure Water Output with EcoFlo*
6	180 L/hour
5	150 L/hour
4	120 L/hour
< 3	Do not use the EcoFlo

* at the Brush, using nLite® Pole Hose, 25 m
** Incoming water pressure

Depending on the pressure of the incoming water supply, using the **HydroPower EcoFlo** insert allows you to restrict the water flow to an optimum level of between 120 – 150 L per hour, which is ideal for regular glass cleaning.

Optimising the water flow in this way allows you to use less pure water, extending the lifetime and performance of a single resin refill in the **nLite® HydroPower** DI Filters by **at least 20%**, without compromising the quality of your work.

- Automatically reduces the water flow – see table above for details.
- Fits any industry standard valves.
- Can be fitted, removed or replaced inside the water flow valve in seconds – simple!
- Compatible with all **nLite® HydroPower** DI Filters, regardless of size.

Customized in every size: The nLite® HydroPower DI Range

Choose from 3 filter sizes depending on the volume of pure water required and frequency of use to maximise your return on investment.

All filters are supplied complete with **QuickChange™ Resin Bags** and integrated **TDS metre** to measure the outgoing water hardness.

SIZE OPTIONS:



DI12T, DI12W
Contains 1 **QuickChange™ Resin Bag** (6 L)



DI24T, DI24W, DI24C
Contains 2 **QuickChange™ Resin Bags** (12 L)



DI48T, DI48C
Contains 4 **QuickChange™ Resin Bags** (24 L)

FILTER PERFORMANCE

Filter productivity depends on several factors, such as filter size, water pressure, temperature and most importantly the level of water hardness. Water hardness is measured in ppm (parts per million) and varies by geographical area. The table below provides guidance on the expected **nLite® HydroPower DI** Filter performance, before the resin is spent and has to be replaced.

nLite® HydroPower FILTER (DI12T, DI12W)

Water Hardness	Pure Water Output	Working Hours
Soft	> 1,570 L	> 10
Medium	470 – 1,570 L	4 – 10
Hard	260 – 470 L	2 – 4
Very Hard	< 260 L	< 2



nLite® HydroPower FILTER (DI24T, DI24W, DI24C)

Water Hardness	Pure Water Output	Working Hours
Soft	> 3,140 L	> 20
Medium	1,130 – 3,140 L	8 – 20
Hard	670 – 1,130 L	5 – 8
Very Hard	< 670 L	< 5



nLite® HydroPower FILTER (DI48T, DI48C)

Water Hardness	Pure Water Output	Working Hours
Soft	> 6,360 L	> 42
Medium	2,450 – 6,360 L	18 – 42
Hard	1,490 – 2,450 L	10 – 18
Very Hard	< 1,490 L	< 10



Water Hardness Explained:

Soft: < 100 ppm Medium: 180 – 300 ppm
Hard: 300 – 400 ppm Very Hard: < 400 ppm

Working Hours:

Based on 5 bar water pressure, using EcoFlo Water Flow Optimiser.
All values based on 10 ppm as maximum for Pure Water quality.



Regional variances in water composition and mineral content may affect resin performance and pure water output. All values provided in the table above are for guidance only.

nLite®

The Evolutionary Pole Technology for Professionals

TELESCOPIC MODULAR POLE DESIGN

The highest professional cleaning standards are even easier to achieve with an **nLite®** Pole System thanks to its perfect balance between weight and rigidity.

Depending on the type of material, the four section **nLite®** Master Pole has an extended length of up to 6.63 m (22 ft), but greater heights can be easily reached and cleaned by adding two-section Extension Poles to the base of the Master Pole.

Each extension adds a further 3.41 m (11 ft) of extended length or 3 m (10 ft) on selected materials and you can add up to 4 Extension Poles to a Master Pole to reach the required height.

The number of Extension Poles that can be added depends on the pole material - pole sets on the opposite page are recommended for comfortable and efficient work at specific maximum heights, based on the ultimate pole material strength, rigidity and weight.

CLAMPS

Easy and fast handed operation. Convenient **UNGER** logo shaped screw for adjusting the tension of the clamp without tools. Yellow clamps identify the next modular component to prevent unintentional separation. Every clamp features removable Hose Clips for securing the hose along the length of the pole to avoid tangling and improve safety.



MASTER POLE – 4 SECTION TELESCOPIC POLE (DIAMETER: 26 MM/29 MM/32 MM/35 MM)



The diameter of the Pole section you are holding will never exceed 35 mm, irrespective of the number of Extension Poles you add. The diameter of the first section of the Master Pole (holding the Gooseneck and Brush) is 26 mm. Wider than

industry average, it increases the rigidity of the Master Pole overall, reducing flex usually associated with smaller diameter, thinner tubes. This results in greater stability and control of the Brush, facilitating more efficient cleaning with less effort.

EXTENSION POLE – 2 SECTION TELESCOPIC POLE (DIAMETER: 32 MM/35 MM)



Greater heights can be easily reached and cleaned by adding two-section telescopic Extension Poles to the base of the Master Pole. Crucially, the Extension Poles don't add anything to the width, grip and feel of the Pole which always measures

35 mm in diameter – an optimum size that fits easily into the hands of the professional for quick and comfortable cleaning. Yellow visual warning area at the top of the Extension Pole helps to avoid unintentional separation.

WATER FED POLE SYSTEM

MASTER POLE

Length	4 sections (Ø 26 / 29 / 32 / 35 mm) 6.63 m (22 ft), 6.00 m (20 ft) or 4.50 m (15 ft).
Hose	Use the practical Hose Clips to secure the hose along the length of the pole to avoid tangling and improve safety.
Endcap	Made of durable plastic with rubber insert, the Endcap prevents accidental damage to the end of the pole. Features side aperture for hose.
Print	Complete specifications, including Length Deflection Ratio for measuring Pole rigidity.

EXTENSION POLE

Length	2 sections (Ø 32 / 35 mm) 3.41 m (11 ft) or 3.00 m (10 ft).
Application	Depending on the pole material, add up to 4 Extension Poles to a Master Pole to reach the required height - see guide below.
Colour	Yellow visual warning area at the top of Extension Pole helps to avoid unintentional separation from the Master Pole.
Print	Complete specifications, including Length Deflection Ratio for measuring Pole rigidity.

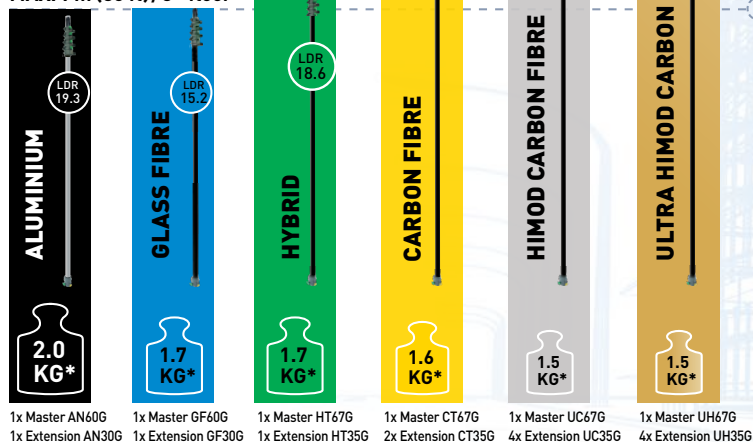
POLE SELECTION GUIDE

MAX. 20 m (65 ft) / 6th floor

MAX. 13.50 m (44 ft) / 5th floor

MAX. 10 m (33 ft) / 4th floor

MAX. 9 m (30 ft) / 3rd floor



PURCHASING GUIDE BY POLE MATERIAL

Greater heights require poles with greater rigidity and lower weight for optimal performance. When selecting the pole, also consider duration of the job – the longer you work, using a lighter pole can help reduce fatigue.

All heights shown in the guide on the left are maximum recommended working heights for specific pole material.

GREATER LDR VALUE = GREATER RIGIDITY!

$$\text{LDR} = \frac{\text{overall length}^3}{\text{deflection} \times 7^2}$$

The Length Deflection Ratio (LDR) has been developed by the **UNGER** R&D Team to provide a quantifiable way of measuring the perfect balance between length and rigidity of water fed poles.



INFO:

- Remember that you can always reduce pole length to work at a lower height by removing the Extension Poles or collapsing the sections!
- Please consider local safety regulations on maximum working height permitted, as well as any restrictions on working at height due to adverse weather conditions.
- Your Approved **UNGER** Dealer can provide further advice on pole selection, with optimal rigidity, to meet your personal requirements and needs.

The nLite® Brushes and Goosenecks – Perfection in Every Detail

The **nLite®** Brushes and Goosenecks allow you to tackle any cleaning challenge with confidence. Choose between various sizes and models, depending on the size, type and angle of the surfaces you're working on.

BRUSHES

Polyester Bristles

The unflagged, hard wearing, solvent resistant polyester bristles are designed to get into the smallest corners and remove even the most stubborn dirt.

Boar Bristle

Coarse to the touch, naturally split along the length, each fibre cleans the surface with its entire body, effectively removing dirt from the tiniest of crevices.



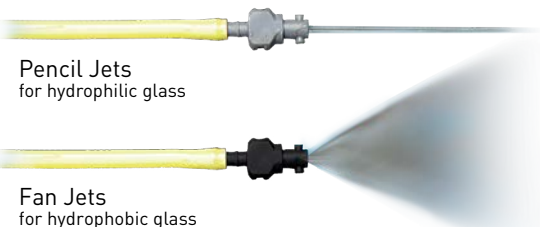
Brush Rotation

The brush can be rotated by 180° and secured in the new position, using the built-in adapter. This option provides greater flexibility and control over cleaning and rinsing different surfaces, angles and structures.



Pencil and Fan Jets

Whereas conventional brushes usually only have two jets, **nLite®** Brushes feature up to twelve quick release jets, making it much easier to control the water flow and rinse surfaces. Adding more jets allows you to clean larger areas quicker and better.



GOOSENECKS

NEW - LIGHTER & STRONGER

Our NEW carbon fibre gooseneck attachments will allow you to reach virtually any surface for cleaning, whilst keeping weight to a bare minimum for easier brush control.

The new full-carbon fibre **nLite®** Goosenecks are made from seamless, lightweight, super solid carbon fibre tube. The new design makes them **MORE THAN 25% LIGHTER** and **5 TIMES STRONGER** than our previous version!

The premium quality carbon fibre material is built to last, and ensures a long life and guaranteed results. Available in 3 sizes: 20 cm, 30 cm and 150 cm.



The number of jets you can use depends on the level of water pressure – the higher the water pressure, the higher number of jets you can use at one time. One set of Pencil Jets is included with every **nLite®** Brush.

The nLite® HydroPower DI Kits

Everything you need to start cleaning with pure water at heights of up to 10 m (33 ft).

Perfect for cleaning of glass windows and building facades, solar panels, vehicles and much more!

VIDEO:



How to Clean with Pure Water



STARTER KIT

nLite® HydroPower DI STARTER KIT

Contents:
 DI12T **nLite® HydroPower DI** Filter, 6 L (includes TDS Meter and Resin)
 AN60G **nLite®** Aluminium Master Pole, 6 m (20 ft)
 FTG0S **HiFlo™ MultiLink** Angle Adapter
 NLR27* **nLite®** Radius Brush, 27 cm
 NL20G **nLite®** Hose, 20 m

Part No.

DIK12

*Colour might be subject to change



ADVANCED KIT

nLite® HydroPower DI ADVANCED KIT

Contents:
 DI24W **nLite® HydroPower DI** Filter, 12 L (Includes TDS Meter, Resin, Wheels)
 GF60G **nLite®** Glass Fibre Master Pole, 6.63 m (22 ft)
 FTG0S **HiFlo™ MultiLink** Angle Adapter
 NLR27* **nLite®** Radius Brush, 27 cm
 NL20G **nLite®** Hose, 20 m

Part No.

DIK24

*Colour might be subject to change



PROFESSIONAL KIT

nLite® HydroPower DI PROFESSIONAL KIT

Contents:
 DI48C **nLite® HydroPower DI** Filter, 24 L (Includes TDS Meter, Resin, Cart)
 CT67G **nLite®** Carbon Fibre Master Pole, 6.63 m (22 ft)
 CT35G **nLite®** Carbon Fibre Extension Pole, 3.41 m (11 ft)
 NLG20 **nLite®** Gooseneck, 20 cm
 NLR27* **nLite®** Radius Brush, 27 cm
 NL25G **nLite®** Hose, 25 m

Part No.

DIK48

*Colour might be subject to change

Product Overview



nLITE® HYDRO POWER DI FILTER

Part No.	Base	Height	Resin Bags	Wheels	Cart	Price Each
DI48T	30x31 cm	116 cm	4 (24 L)	-	-	£444.00
DI48C				-	✓	£599.00
DI24T	30x31 cm	59 cm	2 (12 L)	-	-	£289.00
DI24W				✓	-	£329.00
DI24C				-	✓	£444.00
DI12T	30x31 cm	35 cm	1 (6 L)	-	-	£199.00
DI12W				✓	-	£244.00



QUICK CHANGE™ RESIN BAGS

Part No.	Info	Price Each
DIB61	1 Bag (6 L Each) in an Airtight Bucket	£27.00
DIB64	4 Bags (6 L Each) in an Airtight Bucket	£91.00



PREMIUM GRADE VIRGIN MIXED BED RESIN

Part No.	Info	Price Each
DIB25	1 Bag (25 L Each)	£85.74
DIP25	1 Bag (25 L Each) in an Airtight Bucket	£96.59



nLITE® BRUSHES

Part No.	Shape/Colour	Size	Bristle	Weight Cpl.*	Jets	Price Each
NLR27	Radius	27 cm	Polyester	408 g	4	£31.53
NLR40	Radius	40 cm	Polyester	579 g	8	£36.81
NL27Y	Radius	27 cm	Polyester	408 g	4	£31.53
NL40Y	Radius	40 cm	Polyester	579 g	8	£36.81
NL60Y	Radius	60 cm	Polyester	916 g	12	£52.63
NL27A	Rectangular	27 cm	Polyester	314 g	4	£26.26
NL40A	Rectangular	40 cm	Polyester	452 g	8	£31.53
NL60A	Rectangular	60 cm	Polyester	850 g	12	£47.36
NLE27	Rectangular	27 cm	Boar Bristle	403 g	4	£70.38
NLE40	Rectangular	40 cm	Boar Bristle	510 g	8	£80.58

* Weight Complete includes 1 x Set of Jets and 1 x NLBRS Brush Socket.



nLITE® MASTER POLES

Part No.	Material	Extended	Collapsed	Sections	Weight	Price Each
UH67G	Ultra HiMod	6.63 m	1.87 m	4	1.5 kg	£1,006.86
UC67G	HiMod	6.63 m	1.87 m	4	1.5 kg	£663.39
CT67G	Carbon Fibre	6.3 m	1.87 m	4	1.6 kg	£346.99
HT67G	Hybrid	6.63 m	1.87 m	4	1.7 kg	£209.88
GF60G	Glass Fibre	6.00 m	1.71 m	4	1.7 kg	£93.87
GF45G	Glass Fibre	4.50 m	1.34 m	4	1.4 kg	£88.59
AN60G	Aluminium	6.00 m	1.71 m	4	2.0 kg	£72.77
AN45G	Aluminium	4.50 m	1.34 m	4	1.6 kg	£62.23



nLITE® EXTENSION POLES

Part No.	Material	Extended	Collapsed	Sections	Weight	Price Each
UH35G	Ultra HiMod	3.41 m	1.91 m	2	0.7 kg	£507.11
UC35G	HiMod	3.41 m	1.91 m	2	0.7 kg	£357.54
CT35G	Carbon Fibre	3.41 m	1.91 m	2	0.8 kg	£172.29
HT35G	Hybrid	3.41 m	1.91 m	2	0.9 kg	£104.41
AK081	Hybrid	1.10 m	0.81 m	2	0.5 kg	£83.32
GF30G	Glass Fibre	3.00 m	1.69 m	2	0.9 kg	£62.23
AN30G	Aluminium	3.00 m	1.69 m	2	1.1 kg	£51.68

NEW - LIGHTER & STRONGER!



nLITE® GOOSENECKS

Part No.	Length	Weight	Material	Price Each
NLG20	20 cm	96 g	Carbon Fibre	£48.41
NLG30	30 cm	102 g	Carbon Fibre	£52.63
NLG15	150 cm	390 g	Hybrid	£62.23

nLite® ONLINE CONFIGURATOR

Build your personal nLite® System at
www.ungerglobal.com!



For more information visit
www.ungerglobal.com

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