



Quality Tools for Smart Cleaning

EVOLUTIONARY WATER FED POLE TECHNOLOGY FOR PROFESSIONALS

PATENT PENDING



nLITETM HiFLOTM

- **INNOVATIVE ENGINEERING** LIGHT, STIFF & HI TECH
- **EASE OF USE** BALANCED AND ERGONOMIC
- **ADAPTABILITY** MIX, MATCH AND ADD



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Quality Tools for Smart Cleaning

**HiFlo™
nLITE**

WATER FED POLE SYSTEM

**HiFlo™
nLITE**

EVOLUTIONARY POLE TECHNOLOGY FOR PROFESSIONALS

INNOVATIVE ENGINEERING

- **PERFECT BALANCE** – better rigidity for more control, and yet up to 50% lighter in weight thanks to its carbon fibre technology.
- **HI TECH DESIGN** – every part of the system, from Clamps and Levers to Brushes has been created to deliver the highest standards with cutting edge looks.

EASE OF USE

- **COMFORT AND SAFETY** – the weight/rigidity balance makes **HiFlo™ nLITE** easier and more comfortable to use, even for longer periods of time.
- **EASY ASSEMBLY** – Extension Poles, Goosenecks and Brushes can be added quickly and easily.

ADAPTABILITY

- **MIX AND MATCH** – only use as many Extension Poles as you need.
- **MULTI-TALENTED SYSTEM** – the **HiFlo™ nLITE** can be used to clean glass and building facades, stainless steel, solar panels, signage and vehicles.



THE CONCEPT

HiFlo™ nLITE is a clever and unique combination of lightweight carbon fibre-based poles with incredible strength and rigidity that can be extended with modular extension poles to reach as high as 20 metres or more (equivalent to a six floor building).

THE PROBLEM

Most extension poles, in reducing diameter as extensions lengthen the pole, reach a point where the pole becomes too heavy to handle easily and too flexible to be able to manoeuvre precisely.

THE ANSWER

- Create poles that are so strong and so inflexible that there is no flexibility despite the up to 20 metre length;
- Create poles that, despite their strength and rigidity, are extremely lightweight at under 5kg for 20 metres of pole.

THE ACHIEVEMENT

Unger formulated **HiFlo™ nLITE**. This consists of:

- Three optional grades of pole depending on the intended use. The grade differences are in the carbon fibre values! The entry level Hybrid is a glass fibre/carbon composite. The mid-range is 100% carbon. The ultimate is the high modulus carbon pole for the ultimate in rigidity and super-lightness.
- The system is based on a 4-section, telescopic Master Pole in any of the three pole grades. This can extend to 6.63 metres.
To create even longer poles, 2-section, telescopic extension poles in any of the three pole styles can each extend a further 3.41 metres. Add as many modular extensions as required.
- Different grades can be mixed and matched to achieve optimal poles for given heights and the most economic pole for a given job.



POLE TECHNOLOGY MADE SMARTER

The highest professional cleaning standards are even easier to achieve with the **HiFlo™ nLITE** System thanks to its perfect balance between weight and rigidity. Not only are the poles lighter than conventional versions, but also the use of cutting edge design and technology means that even when extensions are added rigidity is not compromised, and yet the weight and ergonomics of the system still make it a pleasure to use.

The four section Master Pole has an extended length of 6.63m/22ft, but greater heights can be easily reached and cleaned by adding two-section Extension Poles to the base of the Master Pole and succeeding extensions. Each extension adds a further 3.41m/11ft of extended length. Crucially, the Extension Poles don't add anything to the width, grip and feel of the pole which always measures 35mm in diameter – an optimum size that fits easily into the hands of the professional for quick and comfortable cleaning. Even if you're cleaning to a height of around 20m/65ft the **HiFlo™ nLITE** offers the 'gold standard' in terms of ease of use and results, combining just the right amount of rigidity to control your cleaning, but in a lightweight system that's better for the professional to use.

RIGIDITY: LENGTH DEFLECTION RATIO (LDR)

The Length Deflection Ratio (LDR) has been developed by the Unger R&D team to provide a way of measuring the perfect balance between length and rigidity of water-fed poles. The result is affected by the material used in the pole. The LDR is quoted as a number imprinted on every pole. The lower the number the less rigid e.g. Hybrid Master is 18.6. The higher the number the more rigid e.g. HiMod Master 49.6.

HiMOD CARBON Master Pole



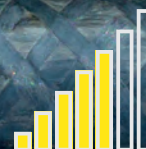
LENGTH DEFLECTION RATIO

LDR 49,6

RIGIDITY:
Deflection w/load of 5kg (11 lb)
12 cm per 6,63 m
(5" per 22 ft)

SPECIFICATIONS:
LENGTH: 6,63 m (22ft)
WEIGHT: 1,5 kg (3,3 lb)

CARBON Master Pole



LENGTH DEFLECTION RATIO

LDR 28,3

RIGIDITY:
Deflection w/load of 5kg (11 lb)
21 cm per 6,63 m
(8" per 22 ft)

SPECIFICATIONS:
LENGTH: 6,63 m (22ft)
WEIGHT: 1,6 kg (3,5 lb)

HYBRID Master Pole



LENGTH DEFLECTION RATIO

LDR 18,6

RIGIDITY:
Deflection w/load of 5kg (11 lb)
32 cm per 6,63 m
(1' ft per 22 ft)

SPECIFICATIONS:
LENGTH: 6,63 m (22ft)
WEIGHT: 1,7 kg (3,7 lb)

THE POLES



MASTER POLE 4 SECTION TELESCOPIC POLE

(Diameter: 26mm/29mm/32mm/35mm)

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

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.

The durable plastic Endcap prevents accidental damage to the end of the pole and features a side aperture for the Hose to exit when used inside the pole. All poles, regardless of the grade, are compatible with each other.

For instance, combining a Carbon Master Pole with a Hybrid Extension Pole will deliver a great performance at a lower cost than an all-Carbon System, with only a slight increase in weight and deflection.



EXTENSION POLE 2 SECTION TELESCOPIC POLE

(Diameter: 32mm/35mm)

The yellow visual warning area at the top of the Extension Pole helps to avoid unintentional separation from the Master Pole. All poles, regardless of the grade, are compatible with each other. For instance, combining a Hybrid Extension Pole with a Carbon Master Pole will deliver great performance at a lower cost than an all-Carbon System, with only a slight increase in weight and deflection.

GRADING SYSTEM

HYBRID: Glass Fibre/Carbon Composite Pole. Excellent rigidity and value. Recommended for working at heights of up to 10m/35ft. Ultimate Strength of Material: 65 GPa.

CARBON: 100% Carbon Fibre Pole. Superior rigidity, lightweight pole. Recommended for working at heights of up to 16m/53ft. Ultimate Strength of Material: 100 GPa.

HIMODULUS CARBON: The ultimate in rigidity, superlight pole. Recommended for working at heights of up to 20m/65ft and higher. Ultimate Strength of Material: 180 GPa.

Gpa (gigapascal) is a unit of measure of stiffness of material.

POLE STRUCTURE

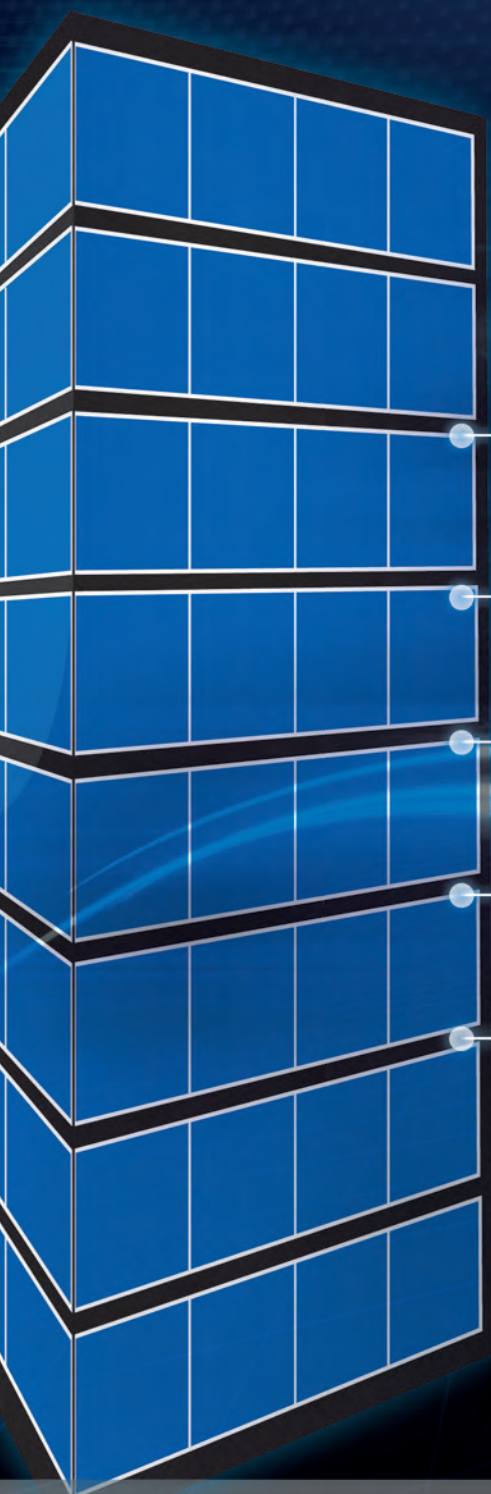
LENGTHWISE FIBRES: Provide the strength and rigidity needed in the lengthwise direction.

CROSSWISE FIBRES: Secure the tube structure to protect the lengthwise layers of carbon from splitting, thus facilitating low rate of deflection even when the pole is fully extended.

SURFACE: The woven structure with a special resin reinforces the pole surface, making it incredibly hard, scratch and wear resistant.

WHAT LENGTH POLE DO I NEED FOR THIS BUILDING?

The chart below will help you identify the suitable Pole length as well as the grade and number of Extension Poles required to achieve it. These combinations offer the most cost-effective options with optimal rigidity.



20.5m / 65'

1 x HIMOD MASTER POLE (UC67G)
+ 3 x HIMOD EXTENSION POLES (UC35G)
+ 1 x CARBON EXTENSION POLE (CT35G)



OPTION 1

1 x HIMOD MASTER POLE (UC67G)
+ 1 x HIMOD EXTENSION POLE (UC35G)
+ 2 x CARBON EXTENSION POLES (CT35G)



OPTION 2

1 x HIMOD MASTER POLE (UC67G)
+ 2 x HIMOD EXTENSION POLES (UC35G)
+ 1 x CARBON EXTENSION POLE (CT35G)



17m / 55'

13.5m / 45'

1 x CARBON MASTER POLE (CT67G)
+ 1 x CARBON EXTENSION POLE (CT35G)
+ 1 x HYBRID EXTENSION POLE (HT35G)



OPTION 1

1 x CARBON MASTER POLE (CT67G)
+ 1 x CARBON EXTENSION POLE (CT35G)



OPTION 2

1 x HYBRID MASTER POLE (HT67G)
+ 1 x HYBRID EXTENSION POLE (HT35G)



10m / 35'

7m / 23'

HYBRID MASTER POLE (HT67G)





THE ACCESSORIES

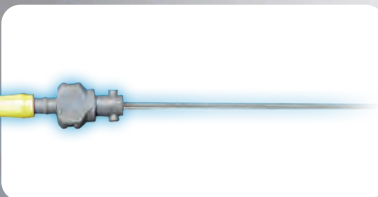
CLAMPS: The clamps, which prevent poles from sliding or allow pole sections to slide in and out and also hold Extension Poles attached to Master Poles, are simple to operate. No tools are required. The design ensures there is no risk of damaging or crushing the tube. Built in flanges alongside the clamp handle protects inadvertent opening of the clamp. Each clamp has an eyelet attached to thread the hose through and keep the hose from tangling or catching. A green Unger logo-shaped screw can be hand-turned to adjust clamp tension.



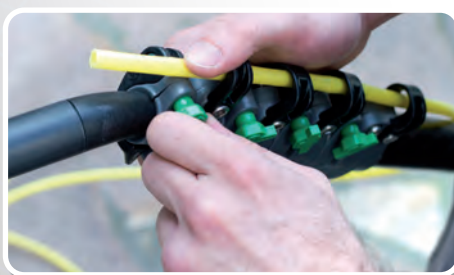
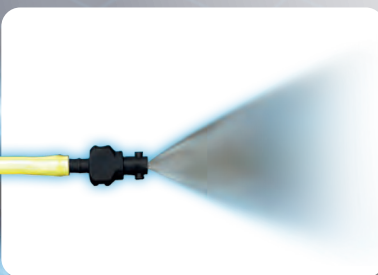
GOOSENECKS: Carbon-fibre goosenecks attach to the pole and are held in place by clamping. They allow the adjustment of the working angle of the brush. Several goosenecks can be combined to achieve a desired angle. Available in 20cm and 30cm lengths.



BRUSHES: Choice of Rectangular, Radius or Yellow Solar in three sizes, 27cm, 40cm, and 60cm for large areas. All brushes have jets for water supply. Two jets for water supply are supplied with each brush but depending on brush size up to ten jets can be used. Jets are available in pencil or for spray pattern. The number of jets used allows the cleaning of larger areas quicker and better but depends on water pressure.



HOSE: Available in 11m, 20m, and 25m lengths and complete with standard hose connector there is a choice of attaching the hose to the pole externally or internally. For external attachment, thread through the eyelets on each clamp. For internal attachment the hose is threaded through the groove in the end cap, up the inside of the poles until it emerges from the side aperture of the thread adapter or the top of the pole. Both methods prevent snagging or damage to the hose.





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DE-IONISATION (DI) FILTERS



Unger Pure Water DI Filter Resin Beads – 25 Litre

- 25 Litre bag of replacement DI Filter Resin Beads.
- For professional cleaning with regular use.

CODE	CAPACITY	CONTENT
UNDIB25	25 L	1 Bag



nLite DI Filter – 4.7 Litre

- Resin Filter Size: 4.7 litre.
- Total Pure Water Output: 1000L
- Pure Water Output p/hour: 100L
- Ideal entry level for professional cleaner or for occasional use.

CODE	OUTPUT	CAPACITY
UNDI100	100L p/hour	4.7 litres



Ultra Resin Packs for nLite HydroPower™ – Ultra Filter S

- Quick Change Resin Beads
- Every Ultra resin pack contains a pre-portioned amount of premium ion-exchange resin perfected for glass cleaning.

CODE	CAPACITY	CONTENT
UNDIUB1	6 Litres	3 Packs



nLite HydroPower™ Ultra Filter S – 6 Litre

OVER 30%* MORE PURE WATER PER RESIN FILLING

- Quick Change Resin Beads
- Integrated TDS Monitor
- Fastlock Opening
- Standard Hose Fittings
- Flowwater Technology ensures more efficient flow.

CODE	SIZE EXT.	CAPACITY
UNDIUH1	30 x 31 x 35cm	6 Litres



Ultra Resin Packs for nLite HydroPower™ – Ultra Filter L

- Quick Change Resin Beads
- Every Ultra resin pack contains a pre-portioned amount of premium ion-exchange resin perfected for glass cleaning.

CODE	CAPACITY	CONTENT
UNDIUB3	18 Litres	1 x Set of 3



nLite HydroPower™ Ultra Filter L – 18 Litre

OVER 30%* MORE PURE WATER PER RESIN FILLING

- Quick Change Resin Beads
- Integrated TDS Monitor
- Fastlock Opening
- Standard Hose Fittings
- Flowwater Technology ensures more efficient flow.

CODE	SIZE EXT.	CAPACITY
UNDIUH2	30 x 31 x 77cm	18 litres

nLITE HiFlo™



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