

**PULEX™**

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member of **IPC**

# *Pure Water cleaning system*

June 2019

# *Pure Water cleaning systems*

# Why choose cleaning with purified water

The water, purified by any element contained in, as mineral salts and impurities, has an high cleaning power.

The water indeed, thanks to its ability to react to dirt with both positive and negative charges, is an excellent solvent. The higher the degree of purity, the greater its ability to react chemically and then attack the soil with extreme effectiveness.



## ✓ Cleaning action

- Great ability to attract and dissolve dirt
- Maximum effect on treated surfaces
- No need of chemicals



## ✓ Great safety in high height cleaning operations

- Thanks to the extensible poles with lengths up to 16 meters, it is possible to easily clean facades and vertical surfaces without any risk for the operator.



## ✓ Ease of use

- Extremely easy to use and carry
- No need to dry the surface after washing operations
- No need of ladders, scaffolding or elevated platforms.



## ✓ High productivity

- Reduction of lead times compared to traditional methods.
- Fast return on investment

# Pure water, a natural solvent for many applications

The pure water, acting as an extremely powerful natural solvent, is particularly recommended for the treatment of all the non-porous surfaces, such as glass, marble, plastics and ceramics, without the use of chemicals. After the cleaning, it is enough to rinse to remove the last traces of dirt, and the surface will remain deeply clean and free of streaks. As a result, this technology is suitable for many cleaning applications.

**BEFORE**      **AFTER**



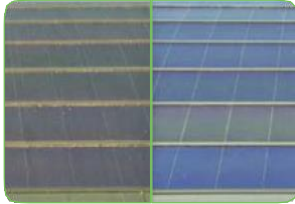
## Building

- Walls ventilated or lined with non-porous materials, glass windows. Fast, practical and non-invasive system
- Efficient cleaning with maximum safety for the operator



## Industry

- Glass windows and vertical surfaces
- Suitable for both indoor and outdoor use
- Efficient cleaning without the use of chemicals

**BEFORE****AFTER**

### Green energies

- Photovoltaic and solar panels
- Essential cleaning to ensure the highest operative results
- Efficient cleaning without the use of chemicals



### Greenhouses and marquees

- Glass or plastic greenhouses and marquees
- No need of chemicals
- Efficient cleaning with maximum safety for the operator



### Nautical/Automotive/Transports

- Boats, trains, aircrafts, public transport.
- Efficient cleaning with extreme ease of use Eco-friendly

- ✓ **Ergonomics:** the poles can reach up to 16 m of length
- ✓ **Safe:** no need of scaffolding or ladders
- ✓ **Universal:** system that can be used for many applications

# Types of pure water production

## 1) Deionization with ions exchange resins

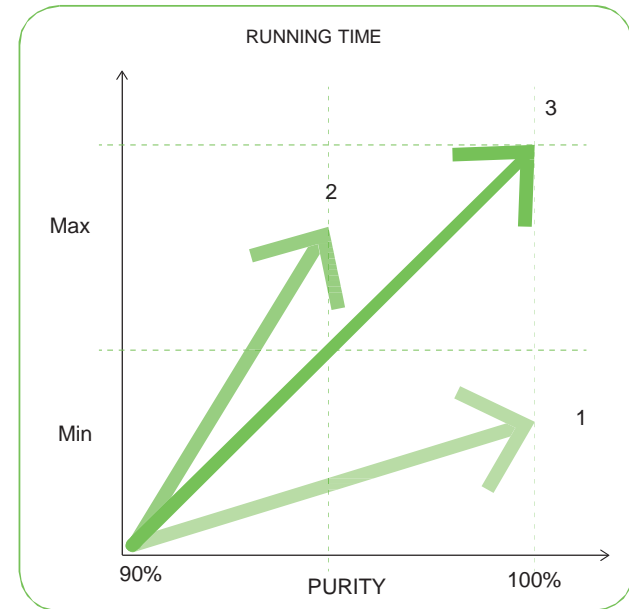
Ions exchange resins, remove impurities up to 100%

## 2) Depuration with reverse osmosis

Osmotic membrane that mechanically filters impurities up to 95%

## 3) 4-stages system

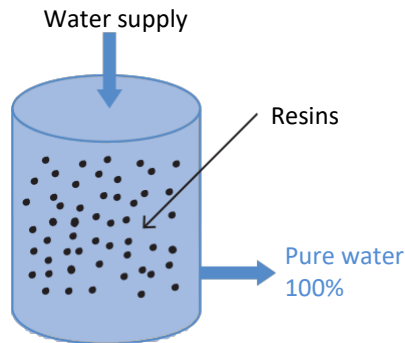
Preventive elimination of macro impurities and chlorine in combination with reverse osmosis + deionization



# Types of pure water production

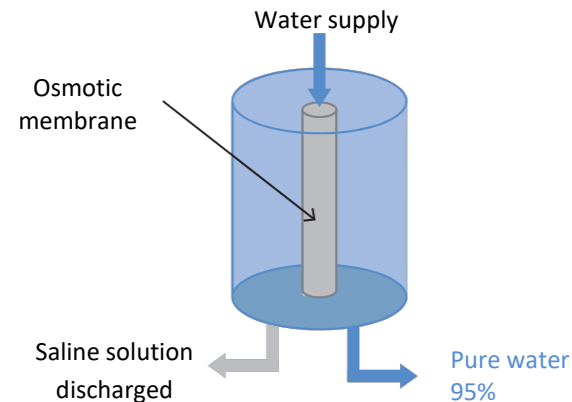
## 1) Deionization with ions exchange resins

- Water purification level up to 100%.
- Limited running time before resins' replacement.
- Managing costs per liter very high due to the frequent replacement of the resins.



## 2) Depuration with reverse osmosis

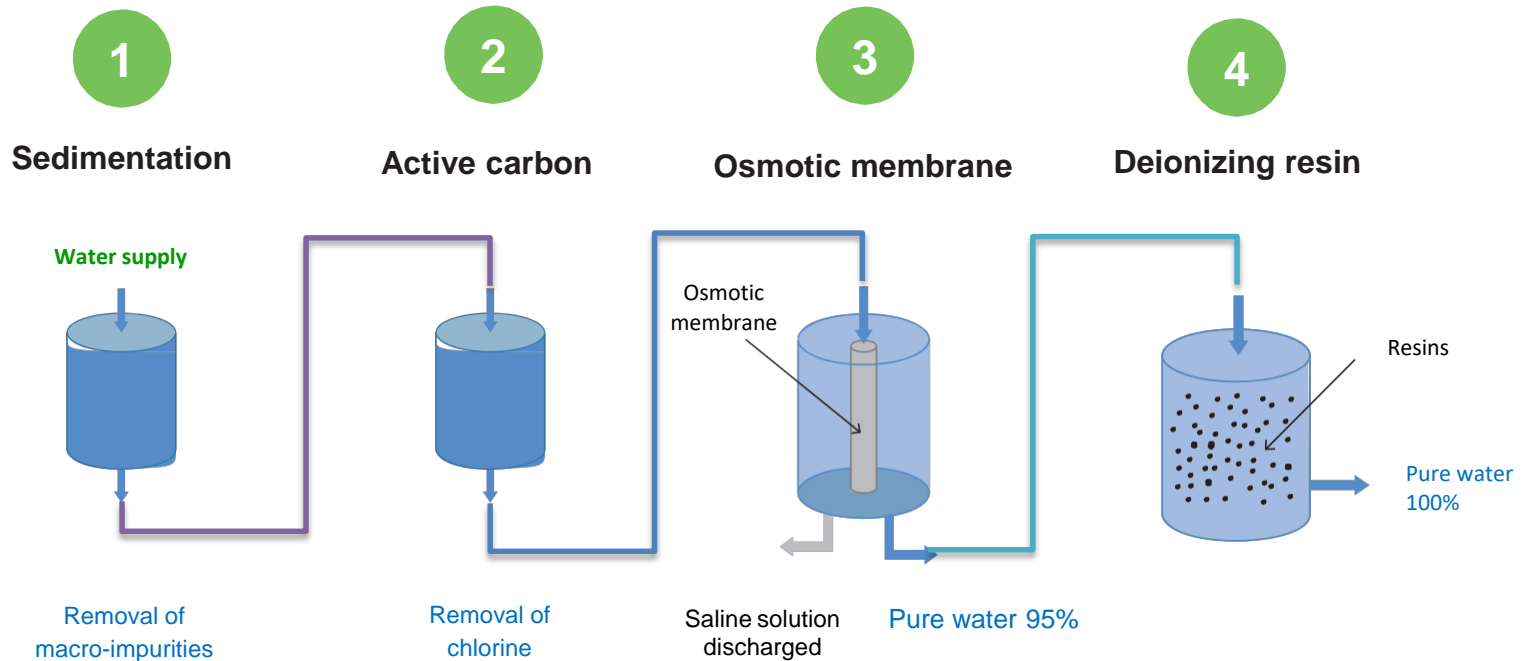
- Non-optimal water purification (maximum 95%)
- Higher running time compared to resins system
- Lower managing cost per liter compared to resins system.



# Types of pure water production

## 3) 4-stages system

- Water purification level up to 100%.
- Higher running time compared to any other system thanks to the combination of the 4 filtration stages.
- Water pre-filtration allows longer duration and thus very low managing costs





# IPC HighPure - GreenTube

## Eco-cleaning system with pure water

IPC pure water machines range is equipped with 4 filtration stages, that makes them among the most efficient machines on the market, and it is developed in two types:

**GreenTube:** suitable for less demanding applications (2/3 hours per day)

**HighPure:** suitable for more demanding professional applications (up to 8 hours per day)



1

### Sedimentation filter.

It eliminates from water the particles bigger than 5 micron.

2

### Active carbon filter.

It eliminates the chlorine to protect the reverse osmosis membrane.

3

### Reverse osmosis membrane.

It eliminates up to 98% of impurities and salts

4

### Deionizing resin cartridge.

It removes the residual salts, bringing their concentration to 0ppm

# IPC HighPure - GreenTube

## A version for any application

IPC system is developed over four models, among which there are three motorized versions to ensure in any condition the maximum versatility, even where there are no electrical connections.



### Basic

System without pump  
Uses mains water pressure  
Not recommended for those applications that require a supply higher than 10 meters heights



### Electric (single-phase)

System with pump  
Recommended for those applications where there is an electric connection available  
Use for unlimited operative heights



### Battery

System with pump  
Recommended for those applications where there isn't electric connection. Available two batteries + battery charger solutions, continuous running times of 2 and 4 hours.  
Use for unlimited operative heights



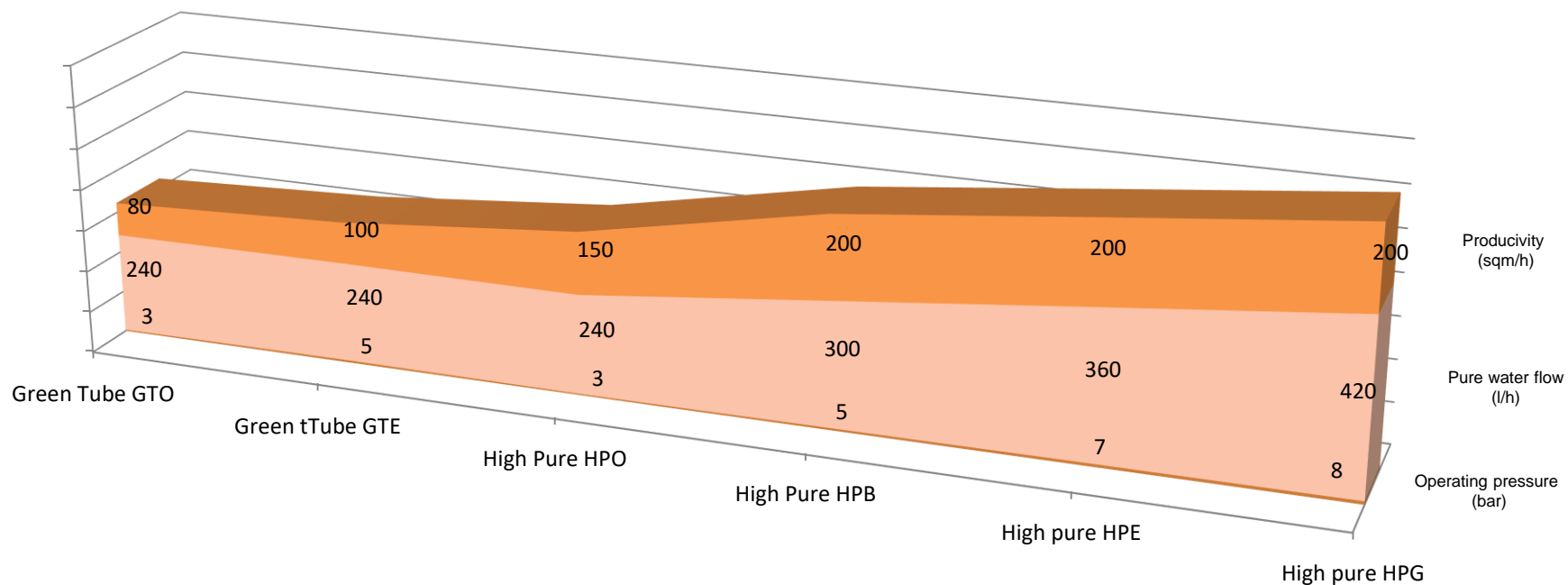
### Endothermic motor

System with pump  
Recommended for those applications where it isn't available electric connection. Use for unlimited operative heights



# IPC HighPure - GreenTube

■ Pressure (bar) ■ Pure water flow(l/h) ■ Productivity (sqm/h)



MODEL		Green Tube GTO	Green Tube GTE	HighPure HPO	HighPure HPB	HighPure HPE	HighPure HPG
Pressure	bar/ kPa	Min 3 Min 300	5 500	Min 3 Min 300	5 500	7 700	8 800
Pure water flow	l/min – l/h	4 (240)	2-4 (240)	2-4 (240)	2-5 (300)	2-6 (360)	3-7 (420)
Max poles length	m	10	16	10	16	16 (also with 2 poles)	16 (also with 2 poles)
Productivity	Sqm/h	80	100	150	200	200	200

# GreenTube - GTO



## Basic

- System without pump
- Uses mains water pressure
- Not recommended for those applications that require a supply higher than 10 meters of heights

Code	Model	Power supply	Water in/out connections (GAS)	Pure water flow (l/min)	Operating pressure (bar)	Max. poles length * (m)	Productivity (m <sup>2</sup> /h)	Weight (kg)	Dimensions (LxWxH) (cm)
APTA40008	GTO	-	3/4"	water supply	system pressure (minimum 3 bar)	10	up to 80	12,7	33x28x145

# GreenTube - GTE



1  
2

## Sedimentation filter.

It eliminates from water the particles bigger than 5 micron.

## Active carbon filter.

It eliminates the chlorine to protect the reverse osmosis membrane.

3

## Reverse osmosis membrane.

It eliminates up to 98% of impurities and salts.

4

## Deionizing resin cartridge.

It removes the residual salts, bringing their concentration to 0 ppm.



## Electric (single-phase)

- System with pump
- Recommended for those applications where there is an electric connection available
- Use for unlimited operative heights

Code	Model	Power supply	Water in/out connections (GAS)	Pure water flow (l/min)	Operating pressure (bar)	Max. poles length (m)	Productivity (m³/h)	Weight (kg)	Dimensions (LxWxH) (cm)
APTA40009	GTE	Electric motor 230 V 0,25 kW	3/4"	2-4	up to 5	16	up to 100	23,4	33x41x145

# HighPure - HPO



- 1 **Sedimentation filter.**  
It eliminates from water the particles bigger than 5 micron.
- 2 **Active carbon filter.**  
It eliminates the chlorine to protect the reverse osmosis membrane.
- 3 **Reverse osmosis membrane.**  
It eliminates up to 98% of impurities and salts.
- 4 **Deionizing resin cartridge.**  
It removes the residual salts, bringing their concentration to 0 ppm.



## Basic

- System without pump
- Uses mains water pressure
- Not recommended for those applications that require a supply higher than 10 meters of heights

Code	Model	Power supply	Water in/out connections (GAS)	Pure water flow (l/min)	Operating pressure (bar)	Max. poles length (m)	Productivity (m³/h)	Weight (kg)	Dimensions (LxWxH) (cm)
APTA40000	HPO	-	3/4"	mains power supply	system pressure (minimum 3 bar)	10	up to 150	32	53x50x127

# HighPure - HPB



Code	Model	Power supply	Water in/out connections (GAS)	Pure water flow (l/min)	Operating pressure (bar)	Max. poles length (m)	Productivity (m³/h)	Weight a vuoto (kg)	Dimensions (LxWxH) (cm)
APTA40016	HPB	Motor 12 V 140 W	3/4"	2 - 5	4 - 5	16 also with 2 poles	up to 200	35	53x50x127

**\*\* N.B. Battery and battery charger not included, to be purchased separately** (see optional accessories section page 28)

# HighPure - HPE



1  
2

## Sedimentation filter.

It eliminates from water the particles bigger than 5 micron.

## Active carbon filter.

It eliminates the chlorine to protect the reverse osmosis membrane.

3

## Reverse osmosis membrane.

It eliminates up to 98% of impurities and salts.

4

## Deionizing resin cartridge.

It removes the residual salts, bringing their concentration to 0 ppm.



## Electric (single-phase)

System with pump

Recommended for those applications where there is an electric connection available

Use for unlimited operative heights

Code	Model	Power supply	Water in/out connections (GAS)	Pure water flow (l/min)	Operating pressure (bar)	Max. poles length (m)	Productivity (m³/h)	Weight (kg)	Dimensions (LxWxH) (cm)
APTA40015	HPE	Electric motor 230 V 0,55 kW	3/4"	2 - 6	6 - 7	16 also with 2 poles	up to 200	45	53x50x127



# HighPure - HPG



1  
2

## Sedimentation filter.

It eliminates from water the particles bigger than 5 micron.

## Active carbon filter.

It eliminates the chlorine to protect the reverse osmosis membrane.

3

## Reverse osmosis membrane.

It eliminates up to 98% of impurities and salts.

4

## Deionizing resin cartridge.

It removes the residual salts, bringing their concentration to 0 ppm.



## Endothermic motor

System with pump

Recommended for those applications where it isn't available electric connection

Use for unlimited operative heights

Code	Model	Power supply	Water in/out connections (GAS)	Pure water flow (l/min)	Operating pressure (bar)	Max. poles length (m)	Productivity (m <sup>2</sup> /h)	Weight (kg)	Dimensions (LxVxI) (cm)
APTA40012	HPG	Endothermic engine Honda GX120 (4HP)	3/4"	3 - 7	7 - 8	16 also with 2 poles	up to 200	49	53x67x127

# Accessories



Poles are available as kits, divided for length and modular or telescopic type.

## Modular poles

- Represents the best choice to have the minimum pole weight in relation to the kind of work, and where there are no height changes
- Made in carbon fiber
- High stiffness and mechanical resistance.
- Extremely light.

### Kit Quick Lock 10

10 meters carbon fiber modular pole kit

- 6 sections of 1.5 m (LCPR40022), 1 section of 0.75 m (LCPR40083)

### Kit Quick Lock 16

16 meters carbon fiber modular pole kit

- 10 sections of 1.5 m (LCPR40022), 1 section of 0.75 m (LCPR40083)

# Poles and accessories



## Telescopic poles

- Represents the best choice where there are various height changes
- Made with extremely resistant materials.
- Great mechanical characteristics and high flexibility.
- Extremely light.

Code		Description
LCPR40097	PGG07	6 meters glass fiber telescopic pole kit
LCPR40098	PGG12	10.5 meters fusion telescopic pole kit
LCPR40099	PGG15	13.5 meters carbon fiber telescopic pole kit

# Accessories

## Goosenecks

Gooseneck choice is very important and it is determined by the kind of application and the cleaning operation. When there is the need to pass curbs, ledges or frameworks, it is recommended to use goosenecks with 20 or 40 cm extensions, according to the requirements.

**Plastic goosenecks:** basic system for a non-demanding use

### Plastic goosenecks



**Aluminium goosenecks:** for frequent use where recurring brush changes are required

### Aluminium goosenecks



**Goosenecks for double brush:** to increase exponentially the operative productivity

### Aluminium goosenecks for double brush



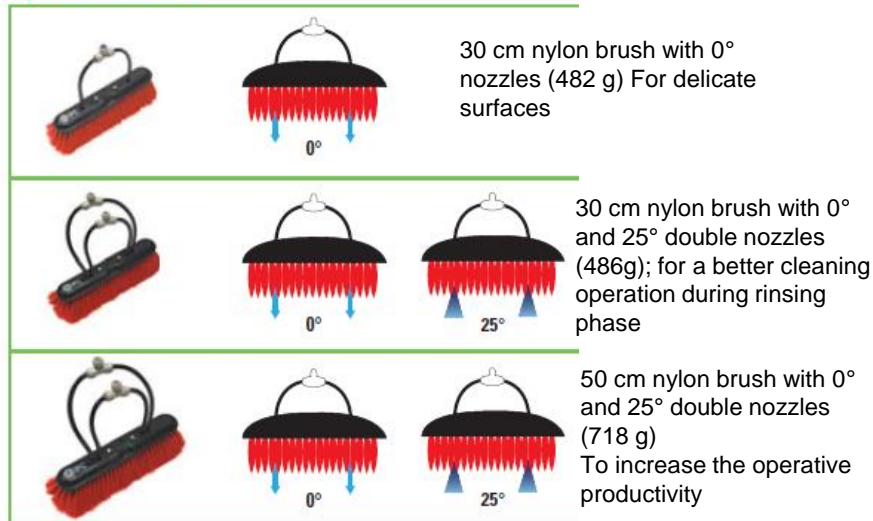
# Accessories

## Brushes

Brush choice is crucial to have the best cleaning result according to the surface to clean.

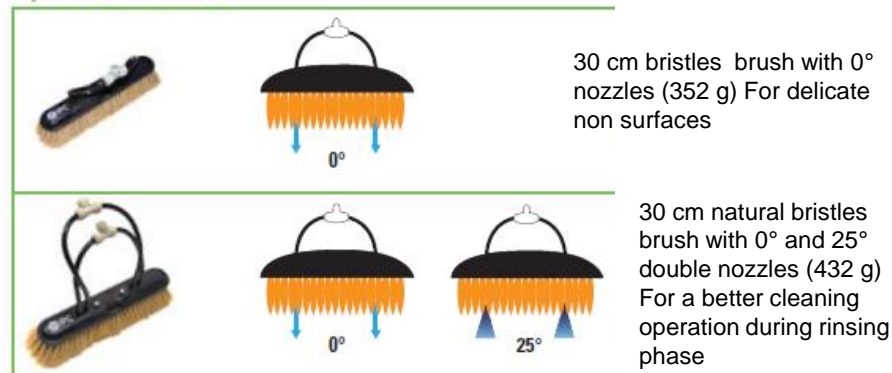
**Nylon bristles** (Speed Brush Soft): recommended for ordinary cleaning and where there are curbs or ledges.

### Speed Brush Soft

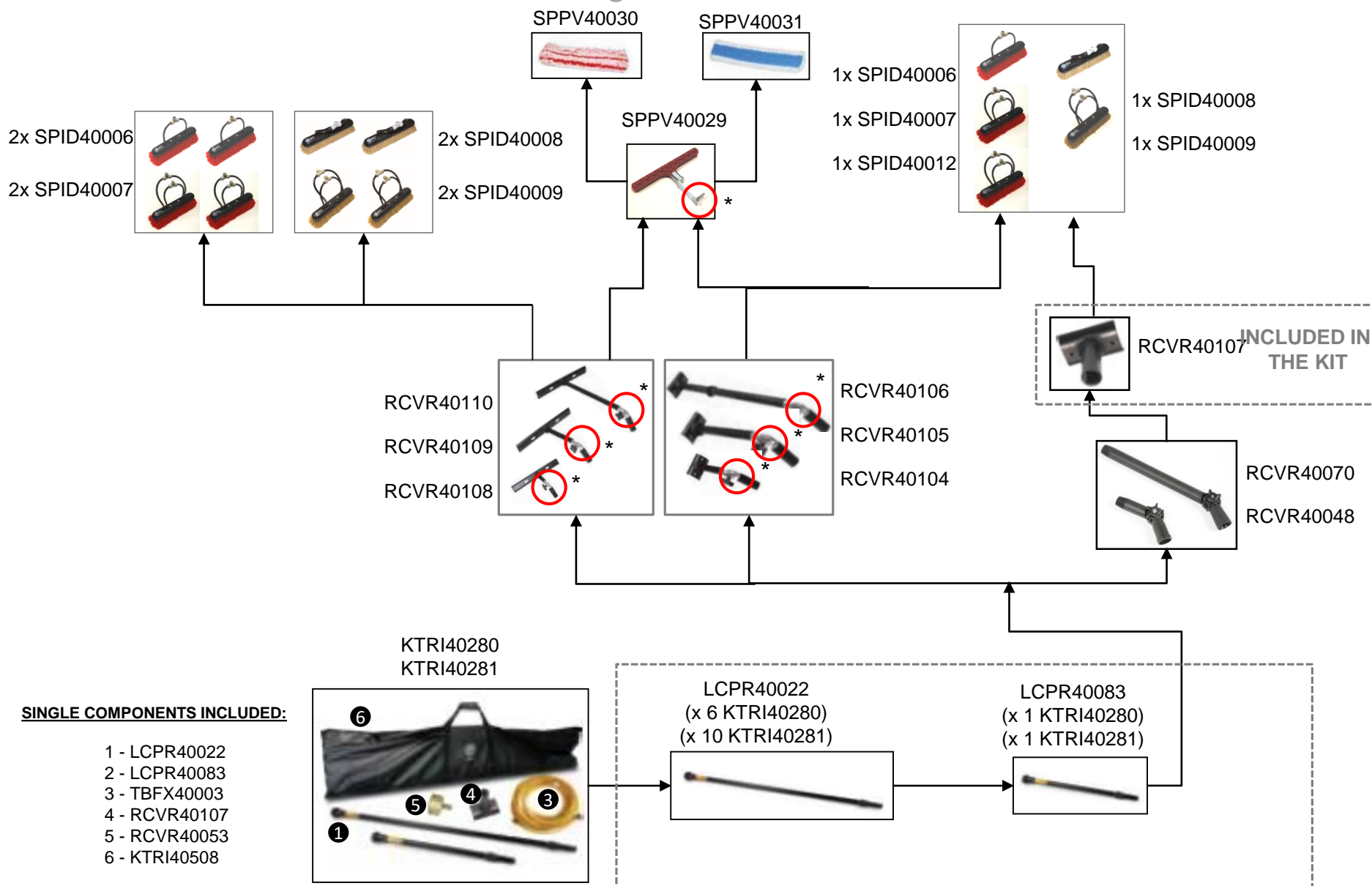


**Natural bristles** (Speed Brush Hard): recommended for deep cleaning and where there are curbs or ledges.

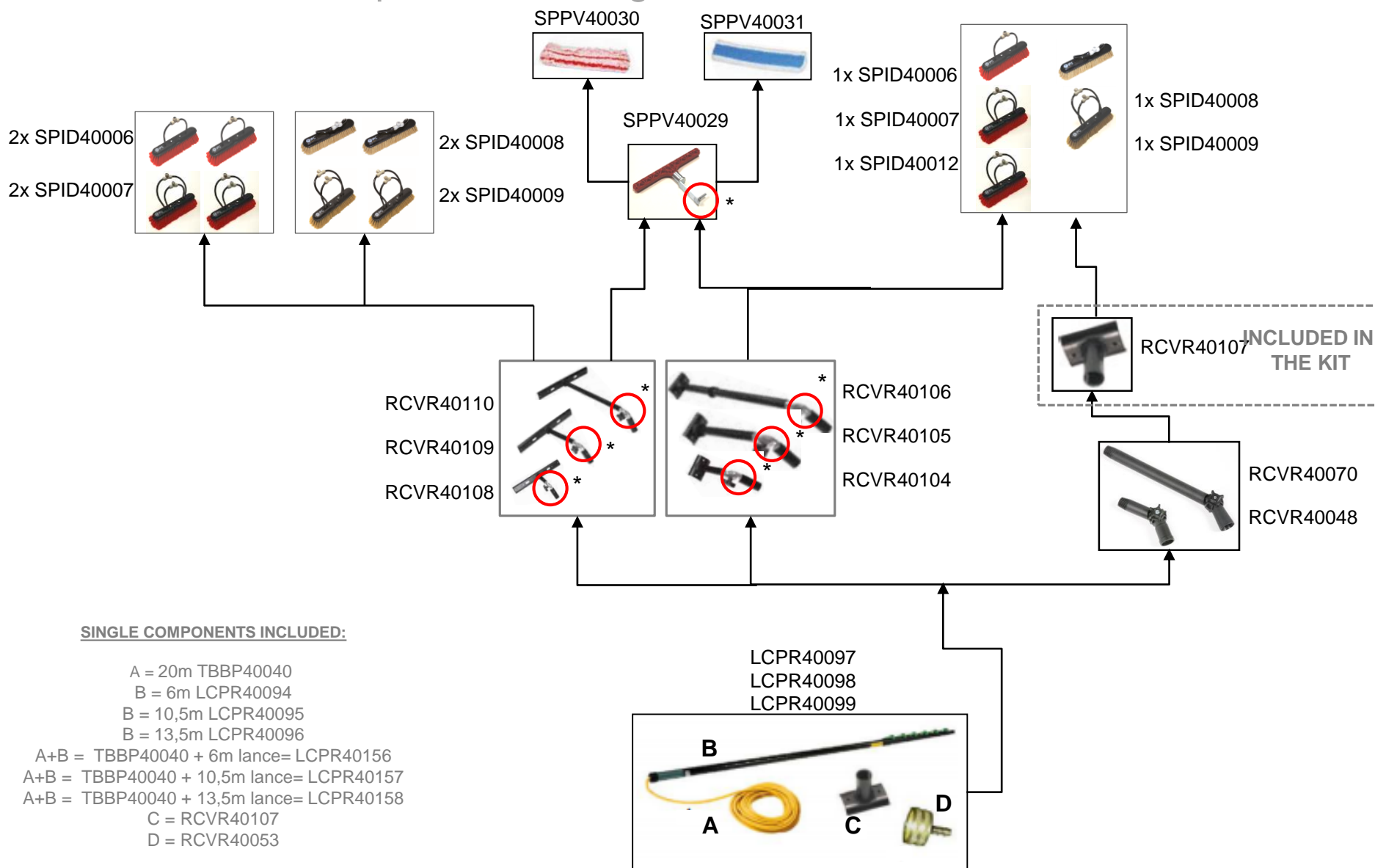
### Speed Brush Hard



# Modular Poles configurator



# Telescopic Poles configurator



*Thank you*