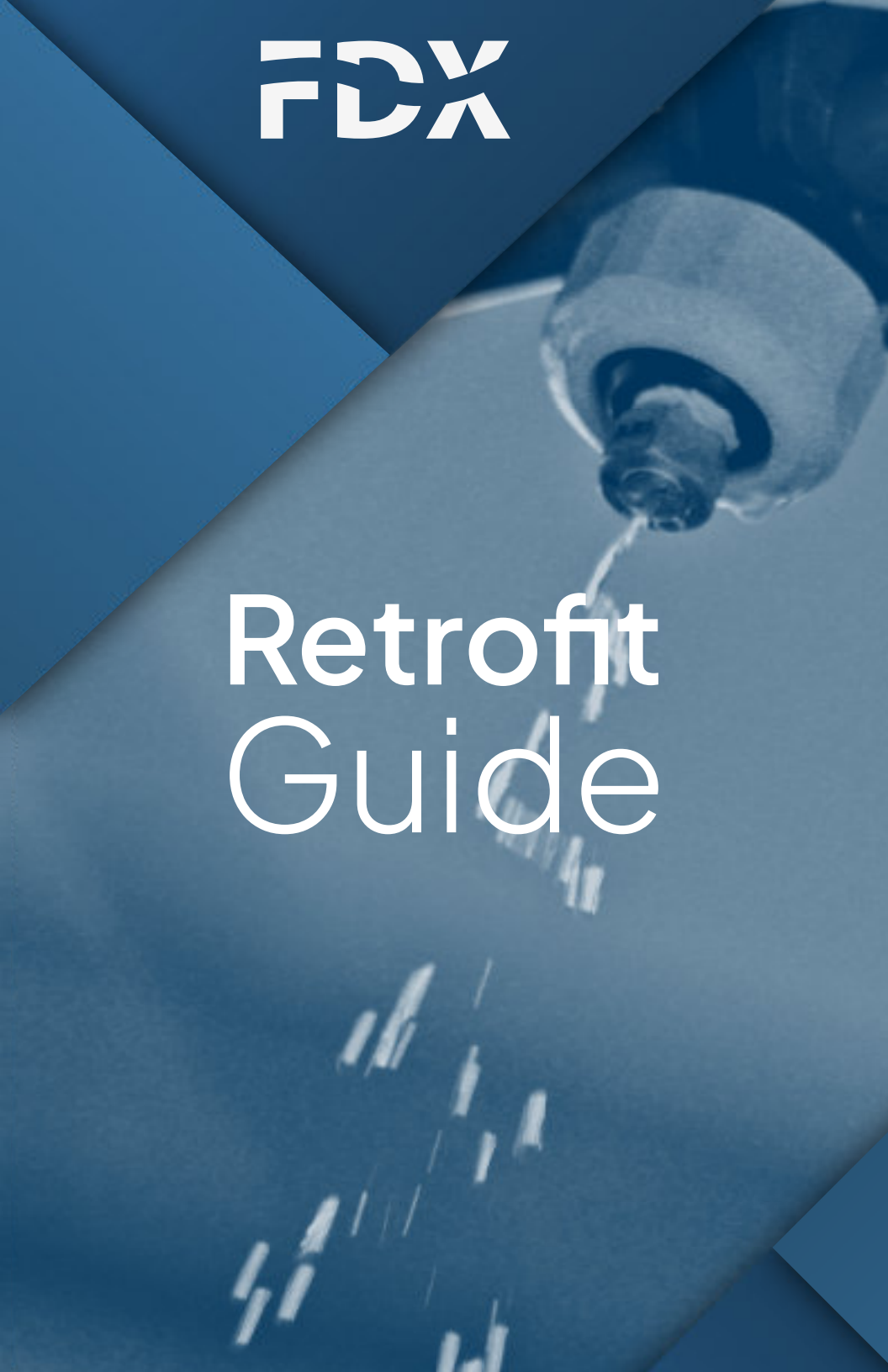


Retrofit Guide

Upgrade with OsciJet

Upgrade your touchless vehicle wash system with OsciJet® fluidic nozzles. In most cases, existing nozzles can be directly replaced using the original mounting locations and connections, with only minor pressure adjustments potentially required.

OsciJet® nozzles generate a dynamic sweeping fluid jet without moving parts, providing superior spray coverage and cleaning effectiveness. This fluidic design eliminates wear-prone mechanical components, resulting in longer service life, increased robustness, and reduced maintenance requirements.

Thanks to their robust design, OsciJet nozzles are well suited for systems operating with reclaimed or recycled water. Depending on the wash system configuration, the improved water distribution can also reduce water consumption while maintaining excellent cleaning performance.

This guide includes recommended OsciJet retrofit configurations for selected touchless vehicle wash systems. If your system is not covered, or if you have questions regarding nozzle selection, operating parameters, or installation, our team will be happy to assist you.

FDX Fluid Dynamix GmbH

www.fdx.de

info@fdx.de

OsciJet Benefits

Long Life

Due to the lack of moving parts and sharp edges, OsciJet nozzles have an **extremely long life cycle**.

Bigger Droplets

OsciJet nozzles create bigger droplets, and thus, are less prone to **drift** and **over-spray**

Exciting User Experience

OsciJet nozzles create a sweeping jet with a **unique sound experience**.

Save Water

Compared to a fan nozzle an OsciJet nozzle can **save** up to **40% of water**, due to higher cleaning performance.

OsciJet MPX-CT

The OsciJet® MPX-CT combines two nozzle functions in one. It is designed to apply cleaning chemicals at low pressure and then perform high-pressure cleaning with an oscillating jet that delivers cleaning performance similar to a rotary nozzle, but without moving parts.

With an operating pressure range from 30 to 1,000 psi, the MPX-CT is suitable for both low- and high-pressure applications, including systems using raw or recycled water. Manufactured from stainless steel for durability and long service life, it is available with a variety of connection options to ensure compatibility with existing installations.The combination of chemical application and high-performance cleaning in a single nozzle makes the OsciJet MPX-CT particularly well suited for touchless vehicle wash systems and other demanding industrial cleaning applications.

Benefits

- Usable for **low-,** and **high-pressure** applications.
- Allows **cleaning agents** to be applied.
- Ideal for **touchless** car wash **systems**.
- Bigger droplets lead to **less overspray**.
- Extremely **long life** cycle.



Pressure in psi

30	to	1000

Spray angle in DEG

10°	25°	45°

Nozzle size (US)

1.5	2	2.5	3	4	5	6

US nozzle sizes correspond to the EU nozzle capacity divided by 10. For example, an EU nozzle size 20 corresponds to a US nozzle size

OsciJet HPX-CW

The OsciJet® HPX-CW is a durable, high-performance alternative to conventional rotary nozzles for high-pressure vehicle washing. By generating an oscillating spray pattern without moving parts, it delivers consistent cleaning performance while reducing wear, maintenance, and downtime. Its lightweight design makes it ideal for hand-operated pre-wash applications, improving operator comfort during extended use. The 45° spray angle provides efficient coverage of large surface areas, while the 30° version offers greater precision in confined spaces. An optional nozzle guard helps protect both the nozzle and vehicle surfaces.

Combining long service life, compatibility with reclaimed water, and efficient cleaning coverage, the OsciJet HPX-CW helps lower operating costs and improve overall washing efficiency.

Benefits

- Usable for **high-pressure** applications.
- Ideal for **touchless** car wash **systems**.
- Compatible with **reclaimed water**
- Extremely **long life** cycle.



Pressure in psi

580	to	1900

Spray angle in DEG

30°	45°

Nozzle size (US)

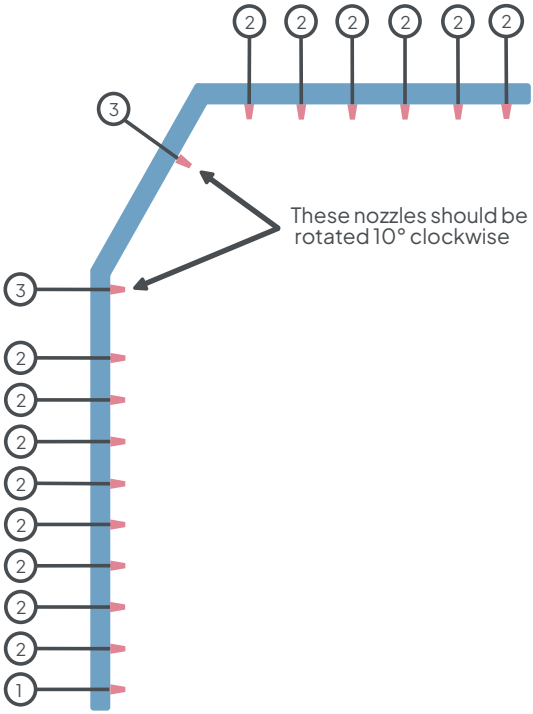
2	to	7

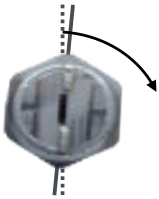
US nozzle sizes correspond to the EU nozzle capacity divided by 10. For example, an EU nozzle size 20 corresponds to a US nozzle size 2.0.

This retrofit kit enables the replacement of standard spray nozzles with OsciJet nozzles on **Belanger® Saber** systems equipped with a 17–nozzle spray arch.

The kit is designed to enhance cleaning performance while extending the longevity.

All OsciJet nozzles feature a 1/4" NPT external thread connection, allowing direct installation without modification of the existing spray arch assembly. Depending on the specific installation and operating parameters, pressure adjustments may be required to achieve optimum performance.





For installation we recommend turning all other the nozzles by 5° clockwise

Nozzle Configuration

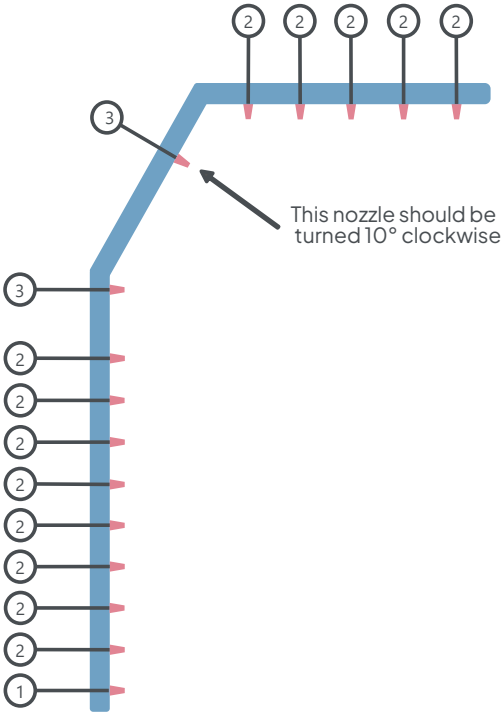
Pos	Nozzle	Angle	Nozzle Size	Quantity
1	MPX-CT C060–45° 1/4" MNPT	45°	6	1
2	MPX-CT C040–25° 1/4" MNPT	25°	4	14
3	MPX-CT C040–45° 1/4" MNPT	45°	4	2

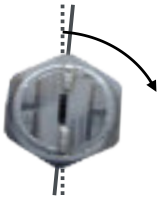
US nozzle sizes correspond to the EU nozzle capacity divided by 10. For example, an EU nozzle size 20 corresponds to a US nozzle size 2.0.

This retrofit kit enables the replacement of standard spray nozzles with OsciJet nozzles on **Belanger® Vector** systems equipped with a 16-nozzle spray arch.

The kit is designed to enhance cleaning performance while extending the longevity.

All OsciJet nozzles feature a 1/4" NPT external thread connection, allowing direct installation without modification of the existing spray arch assembly. Depending on the specific installation and operating parameters, pressure adjustments may be required to achieve optimum performance.





For installation we recommend turning all other the nozzles by 5° clockwise

Nozzle Configuration

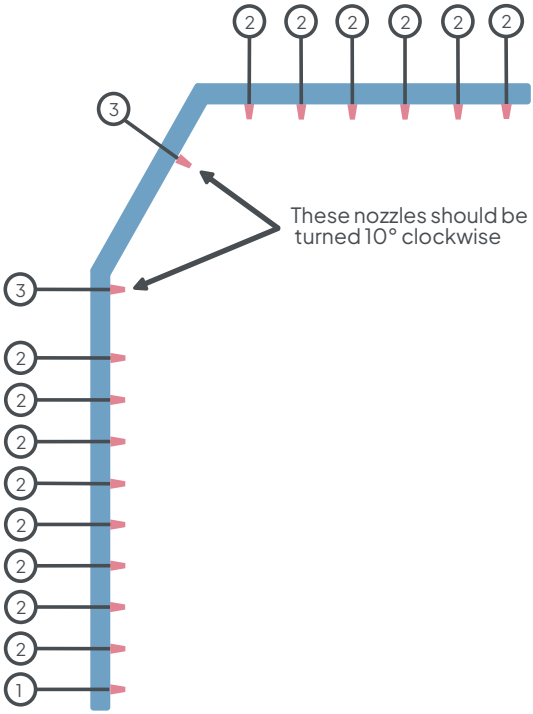
Pos	Nozzle	Angle	Nozzle Size	Quantity
1	MPX-CT C060-45° 1/4" MNPT	45°	6	1
2	MPX-CT C040-25° 1/4" MNPT	25°	4	13
3	MPX-CT C040-45° 1/4" MNPT	45°	4	2

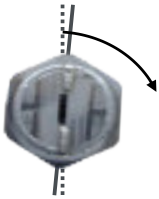
US nozzle sizes correspond to the EU nozzle capacity divided by 10. For example, an EU nozzle size 20 corresponds to a US nozzle size 2.0.

This retrofit kit enables the replacement of standard spray nozzles with OsciJet nozzles on **Belanger® Kondor** systems equipped with a 17–nozzle spray arch.

The kit is designed to enhance cleaning performance while extending the longevity.

All OsciJet nozzles feature a 1/4" NPT external thread connection, allowing direct installation without modification of the existing spray arch assembly. Depending on the specific installation and operating parameters, pressure adjustments may be required to achieve optimum performance.





For installation we recommend turning all other the nozzles by 5° clockwise

Nozzle Configuration

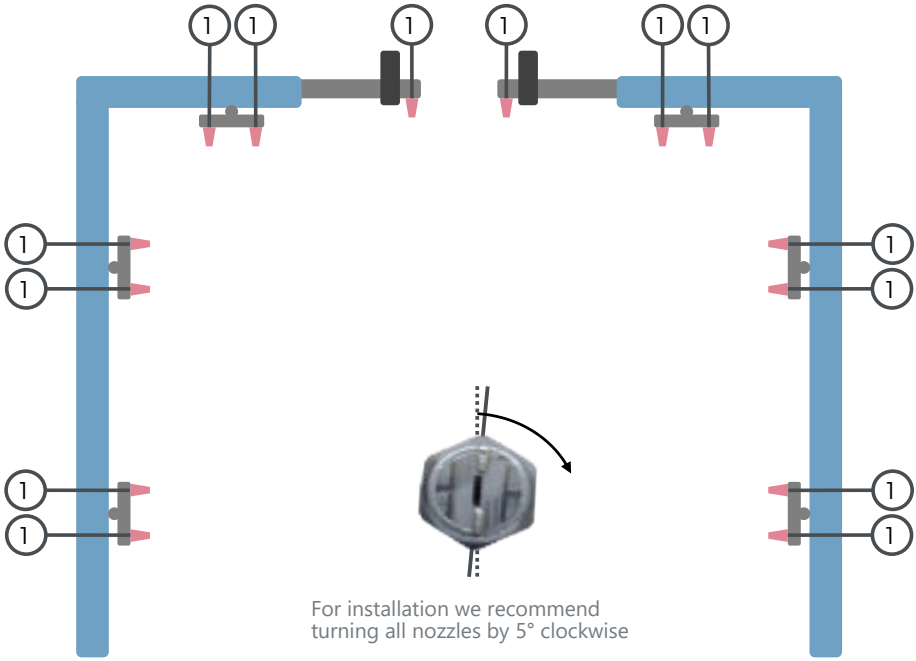
Pos	Nozzle	Angle	Nozzle Size	Quantity
1	MPX-CT C060–45° 1/4" MNPT	45°	6	1
2	MPX-CT C040–25° 1/4" MNPT	25°	4	14
3	MPX-CT C040–45° 1/4" MNPT	45°	4	2

US nozzle sizes correspond to the EU nozzle capacity divided by 10. For example, an EU nozzle size 20 corresponds to a US nozzle size 2.0.

This retrofit kit enables the replacement of standard spray nozzles with OsciJet nozzles on **Coleman Hanna® Water Wizard FasTrak** systems equipped with a 14–nozzle spray arch.

The kit is designed to enhance cleaning performance while extending the longevity.

All OsciJet nozzles feature a 1/4" NPT external thread connection, allowing direct installation without modification of the existing spray arch assembly. Depending on the specific installation and operating parameters, pressure adjustments may be required to achieve optimum performance.



For installation we recommend turning all nozzles by 5° clockwise

Nozzle Configuration

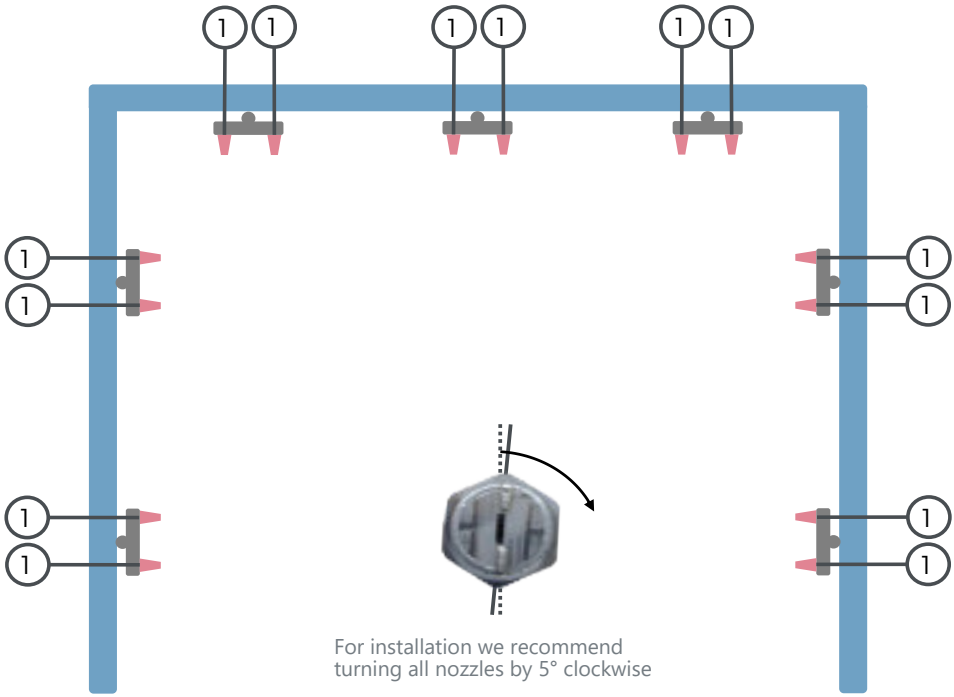
Pos	Nozzle	Angle	Nozzle Size	Quantity
1	HPX-CW C035-30° 1/4" MNPT	30°	3.5	14

US nozzle sizes correspond to the EU nozzle capacity divided by 10. For example, an EU nozzle size 20 corresponds to a US nozzle size 2.0.

This retrofit kit enables the replacement of standard spray nozzles with OsciJet nozzles on **Coleman Hanna® Water Wizard 2.0 Touchless Automatic** systems equipped with a 14–nozzle spray arch.

The kit is designed to enhance cleaning performance while extending the longevity.

All OsciJet nozzles feature a 1/4" NPT external thread connection, allowing direct installation without modification of the existing spray arch assembly. Depending on the specific installation and operating parameters, pressure adjustments may be required to achieve optimum performance.



For installation we recommend turning all nozzles by 5° clockwise

Nozzle Configuration

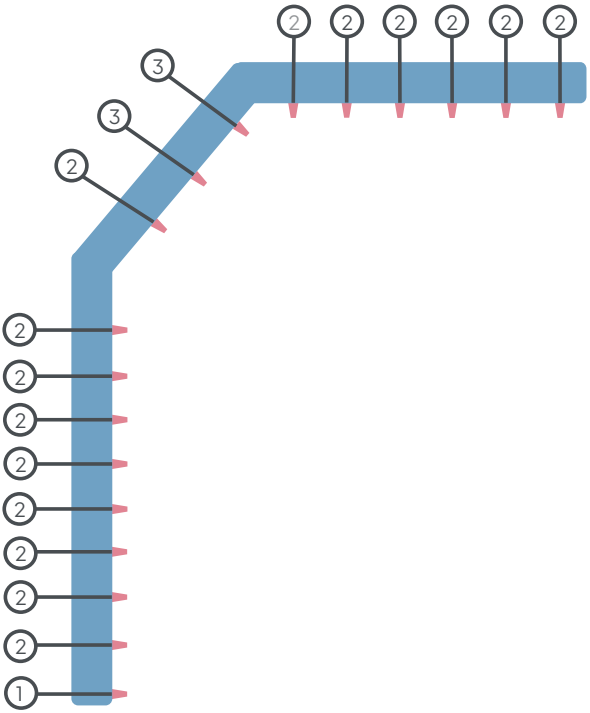
Pos	Nozzle	Angle	Nozzle Size	Quantity
1	HPX-CW C035–30° 1/4" MNPT	30°	3.5	14

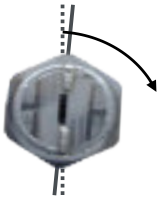
US nozzle sizes correspond to the EU nozzle capacity divided by 10. For example, an EU nozzle size 20 corresponds to a US nozzle size 2.0.

This retrofit kit enables the replacement of standard spray nozzles with OsciJet nozzles on **Istobal® Tracer** systems equipped with a 18–nozzle spray arch.

The kit is designed to enhance cleaning performance while extending the longevity.

All OsciJet nozzles feature a 1/4" NPT external thread connection, allowing direct installation without modification of the existing spray arch assembly. Depending on the specific installation and operating parameters, pressure adjustments may be required to achieve optimum performance.





For installation we recommend turning all other the nozzles by 5° clockwise

Nozzle Configuration

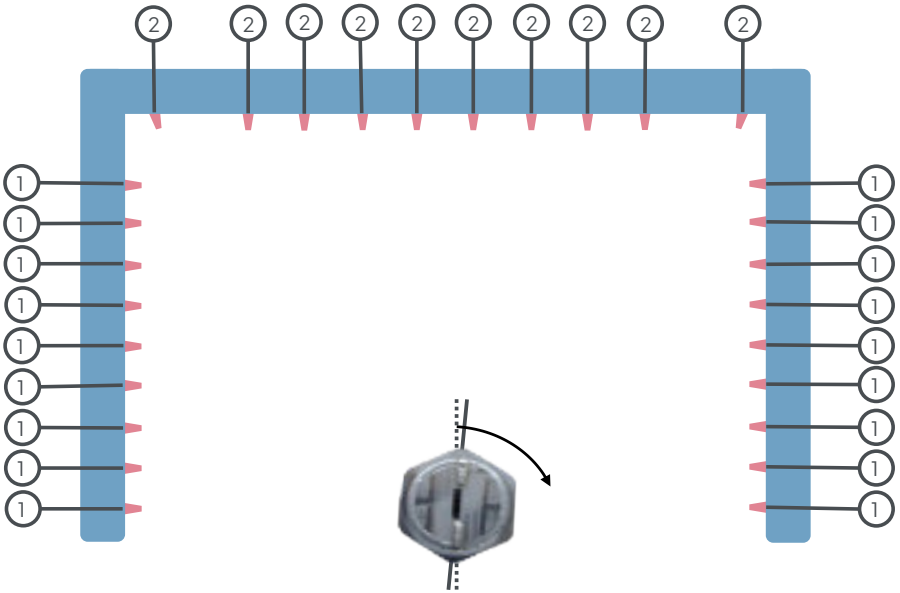
Pos	Nozzle	Angle	Nozzle Size	Quantity
1	MPX-CT C030-25° 1/4" MNPT	25°	3	1
2	MPX-CT C040-25° 1/4" MNPT	25°	4	15
3	MPX-CT C030-45° 1/4" MNPT	45°	3	2

US nozzle sizes correspond to the EU nozzle capacity divided by 10. For example, an EU nozzle size 20 corresponds to a US nozzle size 2.0.

This retrofit kit enables the replacement of standard spray nozzles with OsciJet nozzles on **Mark VII AquaJet XT300** systems equipped with a 28–nozzle spray arch.

The kit is designed to enhance cleaning performance while extending the longevity.

All OsciJet nozzles feature a 1/4" BSP internal thread connection, allowing direct installation without modification of the existing spray arch assembly. Depending on the specific installation and operating parameters, pressure adjustments may be required to achieve optimum performance.



For installation we recommend turning all nozzles by 5° clockwise

Nozzle Configuration

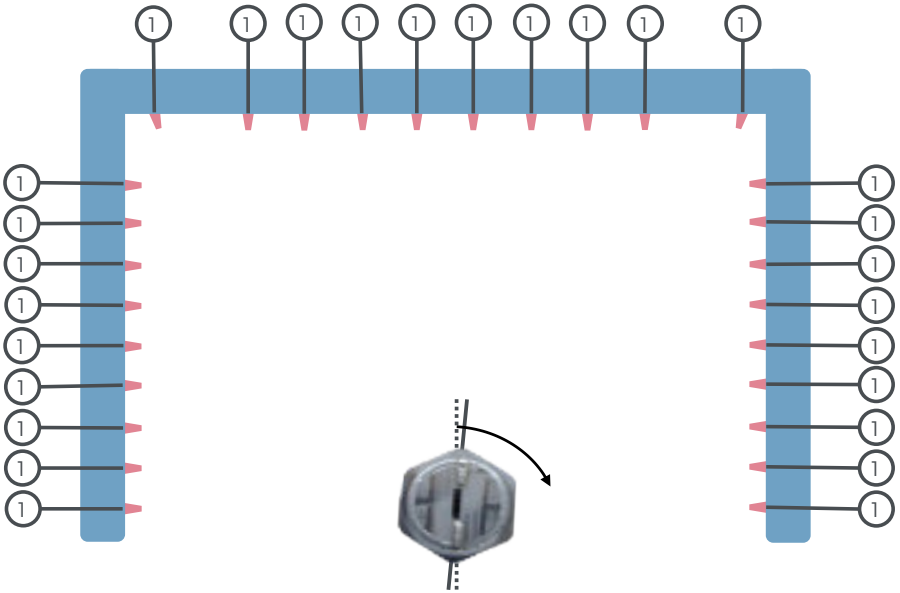
Pos	Nozzle	Angle	Nozzle Size	Quantity
1	HPX-CW C020–30° BSP female 1/4"	30°	2	18
2	HPX-CW C035–30° BSP female 1/4"	30°	3.5	10

US nozzle sizes correspond to the EU nozzle capacity divided by 10. For example, an EU nozzle size 20 corresponds to a US nozzle size 2.0.

This retrofit kit enables the replacement of standard spray nozzles with OsciJet nozzles on **Washtec® Mark VII AquaJet XT700** systems equipped with a 28–nozzle spray arch.

The kit is designed to enhance cleaning performance while extending the longevity.

All OsciJet nozzles feature a 1/4" BSP internal thread connection, allowing direct installation without modification of the existing spray arch assembly. Depending on the specific installation and operating parameters, pressure adjustments may be required to achieve optimum performance.



For installation we recommend
turning all nozzles by 5° clockwise

Nozzle Configuration

Pos	Nozzle	Angle	Nozzle Size	Quantity
1	HPX-CW C020–30° BSP female 1/4"	30°	2	28

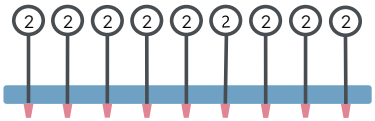
US nozzle sizes correspond to the EU nozzle capacity divided by 10. For example, an EU nozzle size 20 corresponds to a US nozzle size 2.0.

Oasis Typhoon Van Height

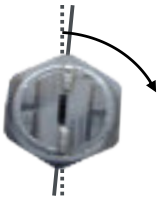
This retrofit kit enables the replacement of standard spray nozzles with OsciJet nozzles on **Oasis® Standard Typhoon Series with a clearance height of 7'6"** systems. The side-wall spray bar is equipped with 11 nozzles, while the front and rear bridge spray bars feature 10 and 9 nozzles, respectively. The top spray bar also incorporates 9 nozzles.

The kit is designed to enhance cleaning performance while extending the longevity.

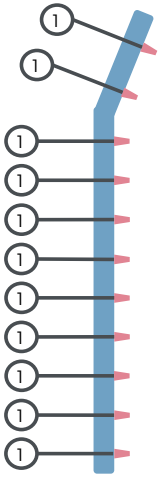
All OsciJet nozzles feature a 1/4" NPT internal thread or 1/8" NPT external thread connection, allowing direct installation without modification of the existing spray arch assembly. Depending on the specific installation and operating parameters, pressure adjustments may be required to achieve optimum performance.



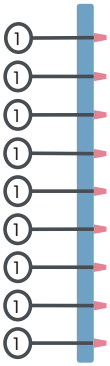
Top



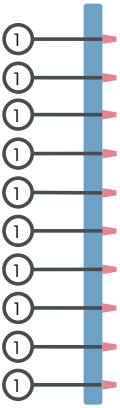
For installation we recommend turning all nozzles by 5° clockwise



2 x MAIN TROLLEY BRIDGE SIDE WANDS



REAR BRIDGE WAND



FRONT BRIDGE WAND

Nozzle Configuration

Pos	Nozzle	Angle	Nozzle Size	Quantity
1	MPX-CT C040-25° 1/8" MNPT	25°	4	41
2	HPX-CW C040-30° 1/4 " MNPT	30°	4	9

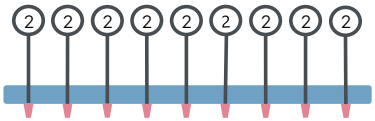
US nozzle sizes correspond to the EU nozzle capacity divided by 10. For example, an EU nozzle size 20 corresponds to a US nozzle size 2.0.

Oasis Typhoon Car Height

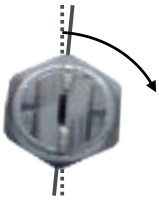
This retrofit kit enables the replacement of standard spray nozzles with OsciJet nozzles on **Oasis® Standard Typhoon Series with a clearance height of 7'** systems. The side-walls spray bar is equipped with 10 nozzles, while the front and rear bridge spray bars feature 8 and 9 nozzles, respectively. The top spray bar also incorporates 9 nozzles.

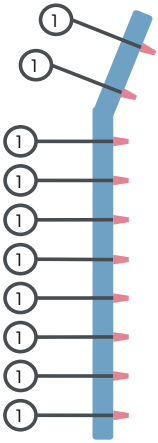
The kit is designed to enhance cleaning performance while extending the longevity.

All OsciJet nozzles feature a 1/4" NPT internal thread or 1/8" NPT external thread connection, allowing direct installation without modification of the existing spray arch assembly. Depending on the specific installation and operating parameters, pressure adjustments may be required to achieve optimum performance.

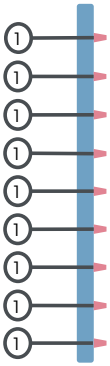


Top

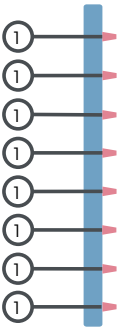

For installation we recommend turning all nozzles by 5° clockwise



2 x MAIN TROLLEY BRIDGE SIDE WANDS



REAR BRIDGE WAND



FRONT BRIDGE WAND

Nozzle Configuration

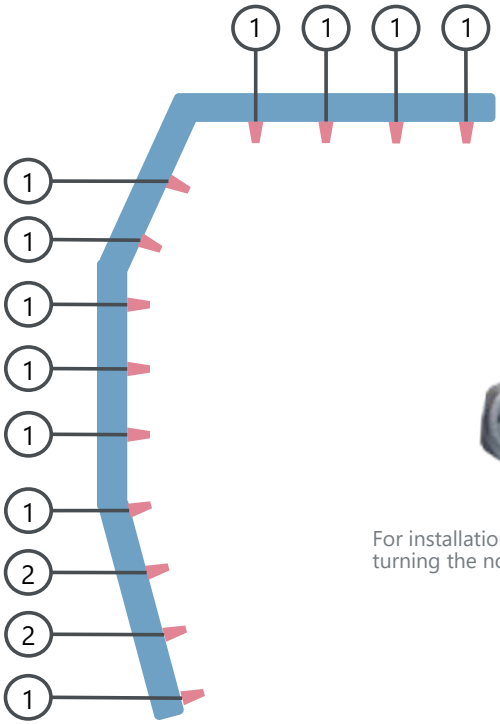
Pos	Nozzle	Angle	Nozzle Size	Quantity
1	MPX-CT C040-25° 1/8" MNPT	25°	4	37
2	HPX-CW C040-30° 1/4" MNPT	30°	4	9

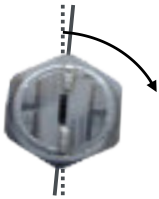
US nozzle sizes correspond to the EU nozzle capacity divided by 10. For example, an EU nozzle size 20 corresponds to a US nozzle size 2.0.

This retrofit kit enables the replacement of standard spray nozzles with OsciJet nozzles on **PDQ LaserWash® G5** systems equipped with a 13–nozzle spray arch.

The kit is designed to enhance cleaning performance while reducing water consumption and extending the longevity.

All OsciJet nozzles feature a 1/4" NPT external thread connection, allowing direct installation without modification of the existing spray arch assembly. Depending on the specific installation and operating parameters, pressure adjustments may be required to achieve optimum performance.





For installation we recommend turning the nozzles by 5° clockwise

Nozzle Configuration

Pos	Nozzle	Angle	Nozzle Size	Quantity
1	MPX-CT C030–25° 1/4" MNPT	25°	3	11
2	MPX-CT C040–45° 1/4" MNPT	45°	4	2

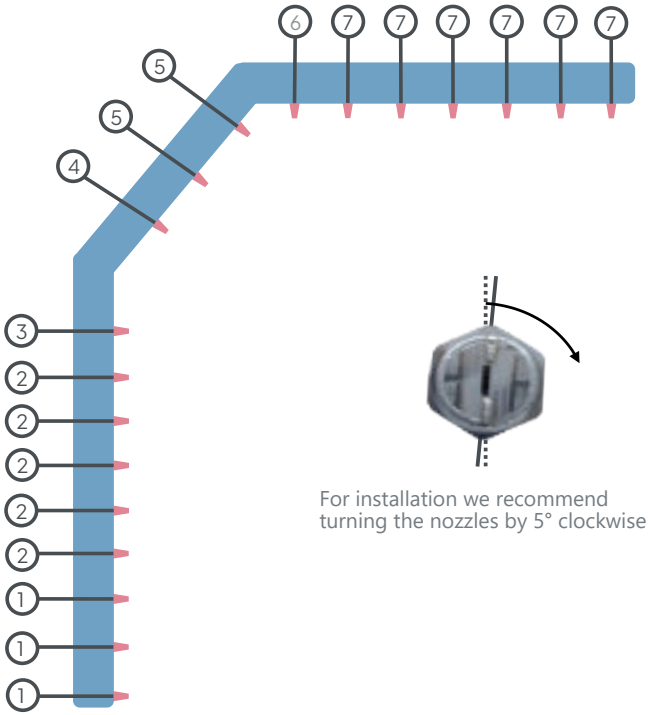
US nozzle sizes correspond to the EU nozzle capacity divided by 10. For example, an EU nozzle size 20 corresponds to a US nozzle size 2.0.

This retrofit kit enables the replacement of standard spray nozzles with OsciJet nozzles on **PDQ LaserWash® 360, M5, and 4000** systems equipped with a 19–nozzle spray arch.

The **Power Configuration** is designed to enhance cleaning performance while reducing water consumption by up to 7% compared to conventional spray nozzles.

All OsciJet® nozzles feature a 1/4" NPT external thread connection for direct installation into the existing spray arch.

The kit is compatible with the 0.070 (orange) injector or bigger. Depending on the specific installation and operating parameters, pressure adjustments may be required to achieve optimum performance. No modifications to the existing spray arch assembly are required.



For installation we recommend turning the nozzles by 5° clockwise

Power Configuration

Pos	Nozzle	Angle	Nozzle Size	Quantity
1, 7	MPX-CT C040–25° 1/4" MNPT	25°	4	9
2, 3, 4	MPX-CT C040–45° 1/4" MNPT	45°	4	7
3	MPX-CT C030–45° 1/4" MNPT	45°	3	2
6	Plug			1

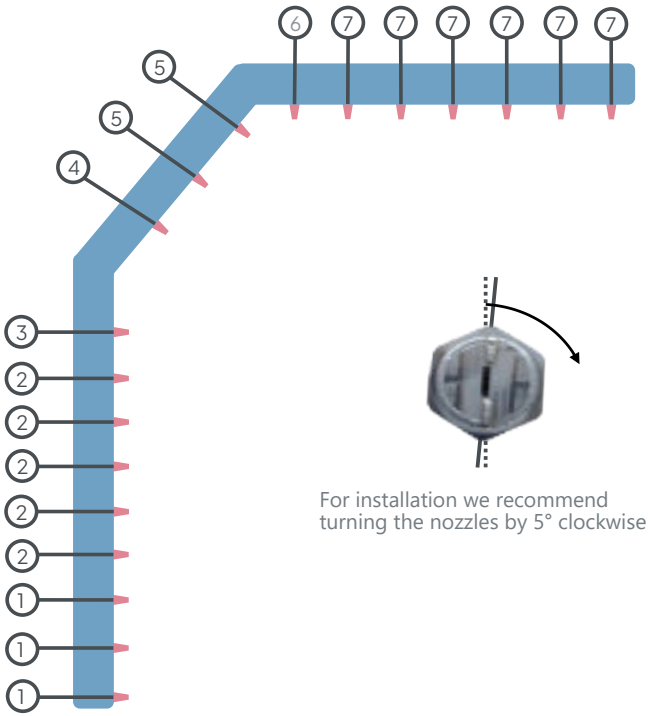
US nozzle sizes correspond to the EU nozzle capacity divided by 10. For example, an EU nozzle size 20 corresponds to a US nozzle size 2.0.

This retrofit kit enables the replacement of standard spray nozzles with OsciJet nozzles on **PDQ LaserWash® 360, M5, and 4000** systems equipped with a 19–nozzle spray arch.

The **Water-Saving Configuration** is designed to maximize water efficiency, providing water savings of up to 21% while maintaining excellent cleaning performance.

All OsciJet® nozzles feature a 1/4" NPT external thread connection for direct installation into the existing spray arch.

The kit is compatible with the 0.070 (orange) injector or bigger. Depending on the specific installation and operating parameters, pressure adjustments may be required to achieve optimum performance. No modifications to the existing spray arch assembly are required.



For installation we recommend turning the nozzles by 5° clockwise

Water-Saving Configuration

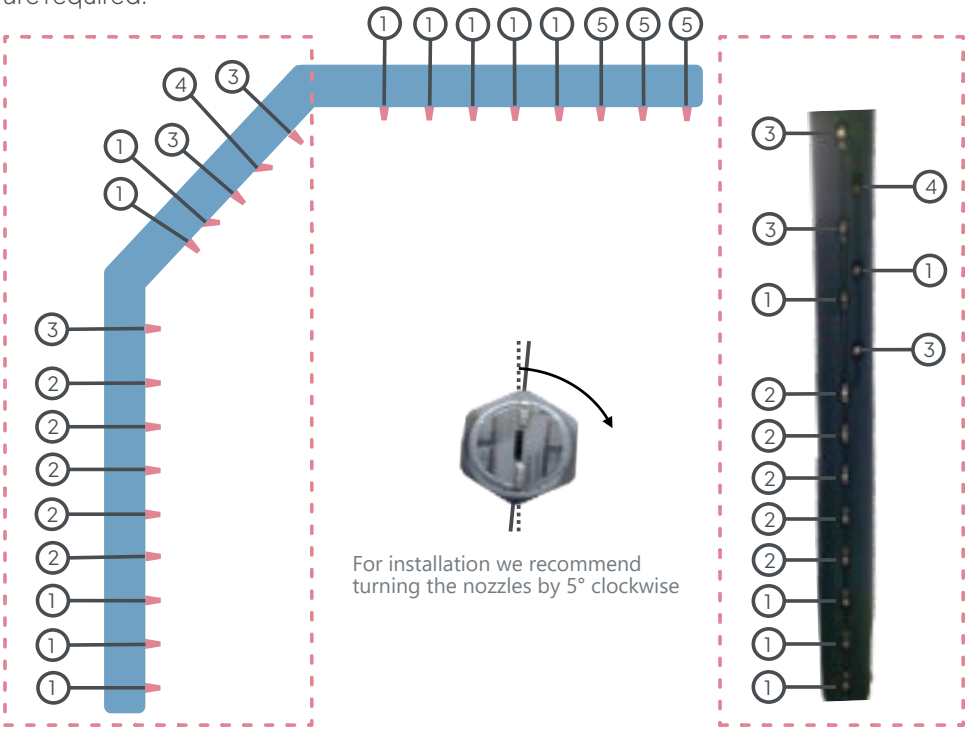
Pos	Nozzle	Angle	Nozzle Size	Quantity
1	MPX-CT C040-25° 1/4" MNPT	25°	4	3
2	MPX-CT C040-45° 1/4" MNPT	45°	4	5
3, 4, 5	MPX-CT C030-45° 1/4" MNPT	45°	3	4
6	Plug			1
7	MPX-CT C030-25° 1/4" MNPT	25°	3	6

US nozzle sizes correspond to the EU nozzle capacity divided by 10. For example, an EU nozzle size 20 corresponds to a US nozzle size 2.0.

This retrofit kit enables the replacement of standard spray nozzles with OsciJet® nozzles on **PDQ LaserWash® 360P** systems equipped with a 22–nozzle spray arch.

The kit is designed to enhance cleaning performance while reducing water consumption by up to 10%.

All OsciJet nozzles feature a 1/4" NPT external thread connection, allowing direct installation without modification of the existing spray arch assembly. The kit is designed for use with the 0.070 (orange) injector or bigger. Depending on the specific installation and operating parameters, pressure adjustments may be required to achieve optimum performance. No modifications to the existing spray arch assembly are required.



Nozzle Configuration

Pos	Nozzle	Angle	Nozzle Size	Quantity
1	MPX-CT C030–25° 1/4" MNPT	25°	3	10
2	MPX-CT C040–45° 1/4" MNPT	45°	4	5
3	MPX-CT C030–45° 1/4" MNPT	45°	3	3
4	Plug			
5	MPX-CT C040–25° 1/4" MNPT	25°	4	3

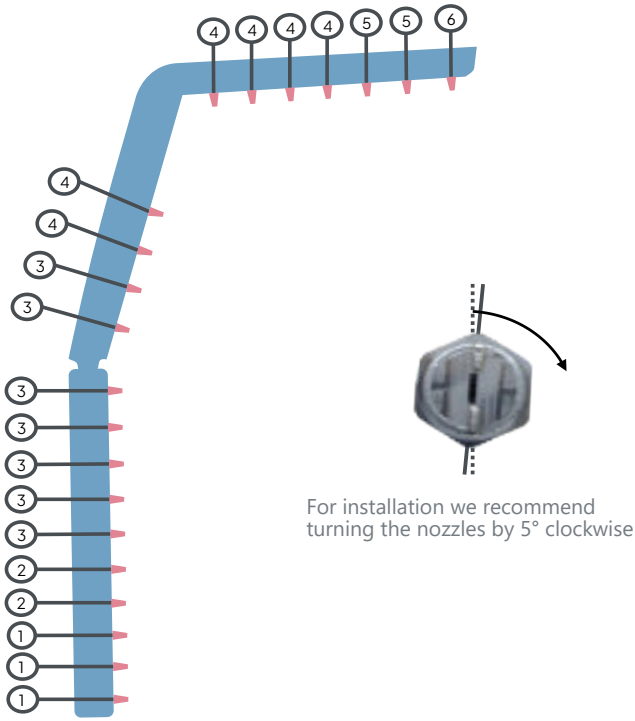
US nozzle sizes correspond to the EU nozzle capacity divided by 10. For example, an EU nozzle size 20 corresponds to a US nozzle size 2.0.

This retrofit kit enables the replacement of standard spray nozzles with OsciJet nozzles on **Washworld® Razor, Razor XR7, and Razor Edge** systems equipped with a 21–nozzle spray arch.

The **Power Configuration** is designed to enhance cleaning performance while reducing water consumption by up to 10% compared to conventional spray nozzles.

All OsciJet® nozzles feature a 1/4" NPT external thread connection for direct installation into the existing spray arch.

The kit is compatible with the 0.070 (orange) injector or bigger. Depending on the specific installation and operating parameters, pressure adjustments may be required to achieve optimum performance. No modifications to the existing spray arch assembly are required.



Power Configuration

Pos	Nozzle	Angle	Nozzle Size	Quantity
1, 5, 6	MPX-CT C040–25° 1/4" MNPT	25°	4	6
2	MPX-CT C040–45° 1/4" MNPT	45°	4	2
3	MPX-CT C030–45° 1/4" MNPT	45°	3	7
4	MPX-CT C030–25° 1/4" MNPT	25°	3	6

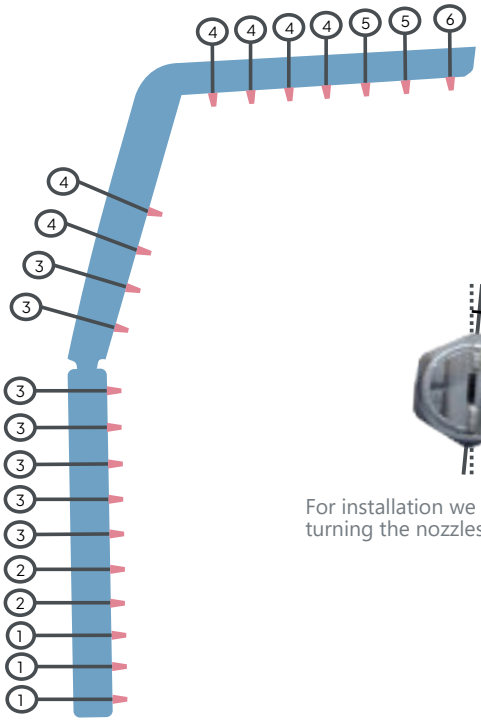
US nozzle sizes correspond to the EU nozzle capacity divided by 10. For example, an EU nozzle size 20 corresponds to a US nozzle size 2.0.

This retrofit kit enables the replacement of standard spray nozzles with OsciJet nozzles on **Washworld® Razor, Razor XR7, and Razor Edge** systems equipped with a 21–nozzle spray arch.

The **Water-saving Configuration** is designed to enhance cleaning performance while reducing water consumption by up to 15% compared to conventional spray nozzles.

All OsciJet® nozzles feature a 1/4" NPT external thread connection for direct installation into the existing spray arch.

The kit is compatible with the 0.070 (orange) injector or bigger. Depending on the specific installation and operating parameters, pressure adjustments may be required to achieve optimum performance. No modifications to the existing spray arch assembly are required.





For installation we recommend turning the nozzles by 5° clockwise

Power Configuration

Pos	Nozzle	Angle	Nozzle Size	Quantity
1	MPX-CT C040-25° 1/4" MNPT	25°	4	3
2	MPX-CT C040-45° 1/4" MNPT	45°	4	2
3, 6	MPX-CT C030-45° 1/4" MNPT	45°	3	8
4, 5	MPX-CT C030-25° 1/4" MNPT	25°	3	8

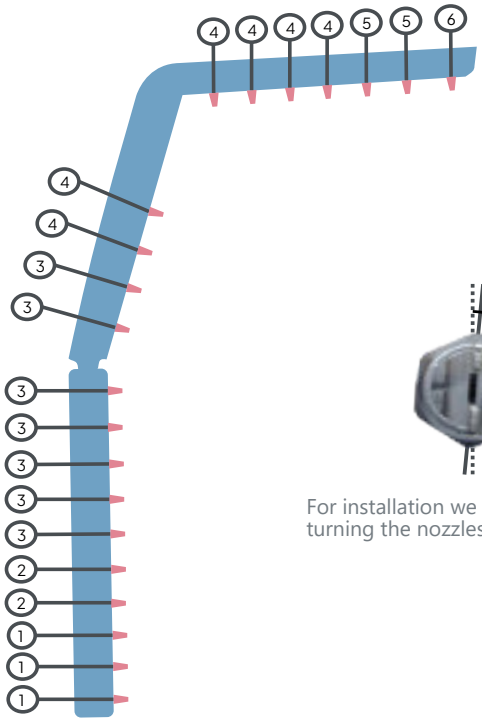
US nozzle sizes correspond to the EU nozzle capacity divided by 10. For example, an EU nozzle size 20 corresponds to a US nozzle size 2.0.

Washworld Razor Double Barrel

This retrofit kit enables the replacement of rotary nozzles with OsciJet nozzles on **Washworld® Razor Double Barrel** (high pressure arch) systems equipped with a 22-nozzle spray arch.

The kit is designed to enhance cleaning performance while extending the longevity. All OsciJet® nozzles feature a 1/4" NPT external thread connection for direct installation into the existing spray arch.

Depending on the specific installation and operating parameters, pressure adjustments may be required to achieve optimum performance. No modifications to the existing spray arch assembly are required.





For installation we recommend turning the nozzles by 5° clockwise

Power Configuration

Pos	Nozzle	Angle	Nozzle Size	Quantity
1	HPX-CW C030-30° 1/4" MNPT	30°	3	20
2	HPX-CW C040-30° 1/4" MNPT	30°	4	2

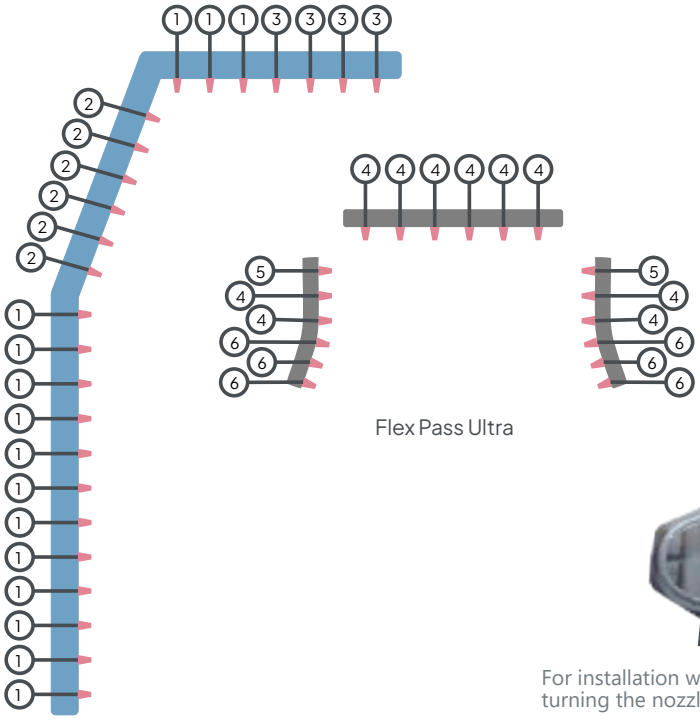
US nozzle sizes correspond to the EU nozzle capacity divided by 10. For example, an EU nozzle size 20 corresponds to a US nozzle size 2.0.

Washworld Hyper Force Razor

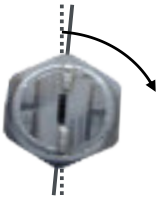
This retrofit kit enables the replacement of standard spray nozzles with OsciJet nozzles on **Washworld® Razor Hyperforce** system equipped with a 43 nozzles.

The kit is designed to enhance cleaning performance while extending the longevity. All OsciJet® nozzles feature a 1/4" NPT external thread connection for direct installation into the existing spray arch.

Depending on the specific installation and operating parameters, pressure adjustments may be required to achieve optimum performance. No modifications to the existing spray arch assembly are required.



Flex Pass Ultra



For installation we recommend turning the nozzles by 5° clockwise

Nozzle Configuration

Pos	Nozzle	Angle	Nozzle Size	Quantity
1	MPX-CT C025-25° 1/4" MNPT	25°	2.5	15
2	MPX-CT C015-25° 1/4" MNPT	25°	1.5	6
3	MPX-CT C040-25° 1/4" MNPT	25°	4	4
4	MPX-CT C040-45° 1/4" MNPT	45°	4	6
5	MPX-CT C060-45° 1/4" MNPT	45°	6	6
6	MPX-CT C030-25° 1/4" MNPT	25°	3	6

US nozzle sizes correspond to the EU nozzle capacity divided by 10. For example, an EU nozzle size 20 corresponds to a US nozzle size 2.0.



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