

# The Clarifier

Working with our good friends at Hanevel and 1550 Consulting, we have developed this FAQ to increase user understanding for the most effective use of CDFX in real-world applications. **You'll find our datasheet here: [CDFX Data Sheet](#)**



## When will CDFX Water Barrier Filters be available?

CDFX Water Barrier Filters are available immediately. However, as global demand is very high after the release of JIG Bulletin 147, you may experience longer lead times. It's best to place your orders in advance to prevent delays.

## What is the storage shelf life of CDFX elements?

CDFX, like monitors, coalescers, separators and micronic filters have a storage shelf life of 5 years from the date of production stamped on the end-cap.

## How should CDFX elements be stored?

CDFX elements should be stored in the same ways as monitors and coalescers - In a cool, dry room, not exposed to direct sunlight or high humidity.

## Do I need a water sensor if I am using CDFX?

**NO!** CDFX positively separates water from fuel and prevents it from going downstream. This technology was qualified to EI-1588 without the requirement of water sensors.

## Do I need to modify my vessel to use CDFX?

CDFX is a true **drop-in replacement** solution, thus, no modification is required to existing monitor vessels. CDFX separates free water from fuel, so you should expect some water to accumulate at the lowest point of the vessel. Therefore, when doing the daily drain of the vessel you might observe some water, something that would not expect with filter monitors. Note that this practice also applies to filter monitor vessels per ATA-103 and JIG operating standards, so there is no change in the daily procedure.

## How do I install or remove CDFX?

CDFX elements are installed and removed the same way as filter monitors elements. Extra care should be taken when handling the body of the CDFX as its a pleated filter design.

## Does CDFX remove both water and particulates from the fuel?

**Yes**, unlike dirt defense filters, CDFX will remove particulates and continuously separates free water from the fuel. The downstream fuel quality exceeds that of filter monitor elements.

## Can CDFX handle a water slug?

**Yes**, CDFX will protect against a water slug passing downstream. A rapid dP increase may occur as any free water will be repelled on the surface of the barrier filter.

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## Can CDFX be used with fuel containing FSII?

**YES**, Fuel System Ice Inhibitor (a.k.a. FSII, DiEGME, Prist®, etc.) have no impact on CDFX and can be used as required. In fact, CDFX can be used with jet fuel containing all allowable additives with no decrease in performance.

## Do I need to get a new nameplate after I convert from filter monitors to CDFX?

**Yes**, conversion decals are available upon request to add to existing nameplates when converting to CDFX. Should metal nameplates be required, they can be purchased from your local Parker Velcon distributor.

## Is CDFX more expensive than filter monitors?

**Yes**, it is more expensive due to the unique SAP-free material that is used to separate water from fuel.

## What is the changeout dP for CDFX?

As stipulated by both ATA-103 and JIG standards, the changeout requirement is **22 psi** as qualified by Parker Velcon to the EI-1588 specification.

## How long can I keep CDFX in service in the vessel if it has not reached the changeout dP?

As per JIG Bulletin 147, operators are required to remove CDFX elements for inspection after 6 months of service. If there are no visible abnormalities observed, the elements shall be re-installed and the fueler put back into service for another 6 months or when the changeout dP has been reached, whichever comes first. JIG Bulletin 147 also states that while this is a requirement, it will be reviewed to assess extending their service life to 12 months, after gathering operational data.

Per ATA-103, the changeout will be 1 year maximum.

## Do I need to drain the vessel daily?

**Yes**, CDFX works by separating water from fuel so expect some water to accumulate at the bottom of your vessel or your drain point. However, the practice of draining the vessel daily applies to filter monitors as well, so the procedure of draining the vessel daily remains the same.

**REMEMBER – ALWAYS DRAIN THE SUMP UNDER PRESSURE!**

## Why does the differential pressure go up during fueling and then drop again before I start the next fueling?

The dP may rise during fueling as some water can be held on the surface of the CDFX element as fuel flows through the element. However, once there is no flow, the water will fall under gravity from the surface of the element. This could account for a rise and fall of dP between fuelings. However, if the drop in dP remains constant, the elements should be removed from service for inspection. (Note: clean, dry fuel may show no increase in dP during a fueling procedure but a drop in dP should be investigated). \*\*

## How do I differentiate between CDFX, DDF and filter monitor element?

CDFX has a black outer sleeve to easily differentiate it from DDF and filter monitor elements which have a white sleeve. Each element type is clearly identified with the manufacturer's markings on the end cap.

## I am currently using Dirt Defense Filters with an Electronic Water Sensor; can I still convert to CDFX?

**Yes!** CDFX elements, monitors and DDFs have the same flow rates per cartridge. You can simply replace DDF elements one-for-one with CDFX, to ensure you have no water going downstream. After conversion, the use of the Electronic Water Sensor is optional when using CDFX, (check your company guidelines). Don't forget to install a new data plate!

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I'd really like to use CDFX, but I may not be able to install them before the JIG imposed 1 July 2023 dateline. Can I continue to use filter monitors beyond July 2023? \*

JIG has defined the deadline for withdrawal of Filter Monitors to be removed from service in locations operating in compliance with the JIG standards is 1st July 2023.

Where EI 1583 7th edition filter monitors remain in use and until they are completely phased out, they shall be operated and maintained strictly in accordance with requirements set in Bulletin 105.

You must remember, however, that the JIG Standards (JIG 1, Chapter 1.6 and Appendix A3) do allow Users to operate differently under strictly controlled conditions and for a defined short period of time if they are unable to comply 100% with the Standards. Be aware that, JIG Bulletin 105 will be withdrawn on 1st July 2024.

**For further information or clarity on this matter, please contact JIG: [JIGs Website](#)**

**\* THIS DOES NOT IMPACT OPERATIONS ADHERING TO CURRENT ATA SPEC 103 REVISION 2023.1 OPERATING STANDARDS.**

Please see [JIG Bulletin 147](#) for complete WBF adoption details.

\*\* For Reference see: [JIG Bulletin 105](#)

For ATA-103 information please see [Bulletin 2022.1](#)

**We trust that we have provided the information you need to start using CDFX in place of SAP monitor elements. For questions or technical information, please contact your Parker Velcon Distributor, Parker Velcon Territory Sales Manager or Velcon Customer Service at [afd.velcon.support@support.parker.com](mailto:afd.velcon.support@support.parker.com)**

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