



DX1000W ATEX SERIES



DELTA-XERO
THE FUTURE IS SYSTEM RELIABILITY

ZONE 1, OIL CLEANING

**CHANGING MAINTENANCE
REDUCING CONSUMPTION**



DX1000W ATEX1 E SERIES OIL CLEANERS

Lube Filtration and Cleaning

Delta-Xero products is a new range of filter that protects againsts contamination, wear, varnish, water and oxidation in lubes. The cleaning is performed via Delta-Xero's unique patented process. Delta-Xero optimize lube quality to better than new lube condition and even better, the filter - it's recycled.

Delta-Xero Fine Filtration

Delta-Xero filters cleans lube oils down to 0,1 micron Particles, varnish, sludge, bacterias & even removes any last bit of water or salts. This insert is capable of retaining 3-6 kgs of contaminants. All contaminants are retained within the filterinserts to be exchanged with new sets of Delta-Xero filters made out of 100% Recycled material. The retained contaminants in the inserts are pulled out at each service. No scraping of filters, no rust.

Offline Kidneyloop

The Delta-Xero filter system is easily connected to most lube oil tank/reservoir in an independend filtration loop. Each time passing reducing downtime, emmisions, and parts consumption by removal contaminants.

Dimension

There is a need to size the systems to exceed the general consumption in order to have the very best results.

Scalable solutions

Single, Double, Triple Quatro and Sixdouble oil cleaner systems are easily assembled serviced and maintained with very little tools. Units has high quality and low weight and serve as a compact maintenance solution. The low weight modules makes it possible to install with no lifting tools.

Extended custom requirements can be tailored and scaled to fit your needs. Additonal sections, with extra filter housings may be bolted on sideways if the filtration task is greater. If in doubt ask our engineers what the best solution is for your application.



DX1001W-ATEX1-E

DX1002W-ATEX1-E

DX1003W-ATEX1-E

Cleans lube & removes

-  Particles, Wear metals
-  Varnish & Sludge
-  Water & salt



DX1004W-ATEX1-E

DX1006W-ATEX1-E





Delta-Xero Scalable Electric Driven Oil Cleaner Solutions for Zone 1

Single, Double, Triple Quatro and Six double oil cleaner systems are made compact for wall or bulkhead fixing. The construction is made of Stainless steel 316L grade and is sturdy, compact and light. Units are approved for use in hazardous explosion risk zones. Units withheld a third party ATEX certification for use in zone 1 /or G2 areas.

Improving cleanliness, setting new industry standards

Units has has its own pneumatic air motor and gear pump that supply i.e. hydraulic fluid, lubricant or fuel from the fluid reservoir, with return back to the reservoir. The fluid is cleaned, dried & treated far beyond any existing industry standard. The task is to obtain operation reliability far better than todays expectations, making maintenance of heavy machinery a lot easier



From small...

to intermediate...

and further...

to bigger challenges

From thin fluids...

to intermediate...

and further...

thicker fluids

	DATA
Max. Pressure [Barg]	Fluid Pressure 7 barg max onto DX1000 series housing
Pump & Connection Ports	01, 02 & 03 units has; In & Out G3/8"BSP /04 and 06 units have; G1/2"BSP Ports
Sight Glass	Yes, flow indicator onto the discharge of the filter unit
Flow Capacity by sizing	1.2Lpm to 7,8 Lpm on regular lube oils. Diesel Fuels 25Lpm.')
Typical Flow	4-7.8 Lpm. (Depentent of unit choice and fluid viscocity, but scalable)
Purify Properties	Particles 0,1 Micron, Particles, Sulfur, Varnish, Bacterias, Water & Salt
Weight [Kgs]	22 to 45Kgs
Measure [mm] 1/2/3 filters	See General Arrangement Drawing. Keep service space above the unit >300mm
Power	ATEX Pneumatic driven 0,37kW. Can be retrofitted to electric driven ATEX motors.
Delta-Xero® Cartridge DXO	x 1/2/3/4/6 Delta-Xero® Part no "DXO", Lube Oil Cleaner Cartridge'')

')

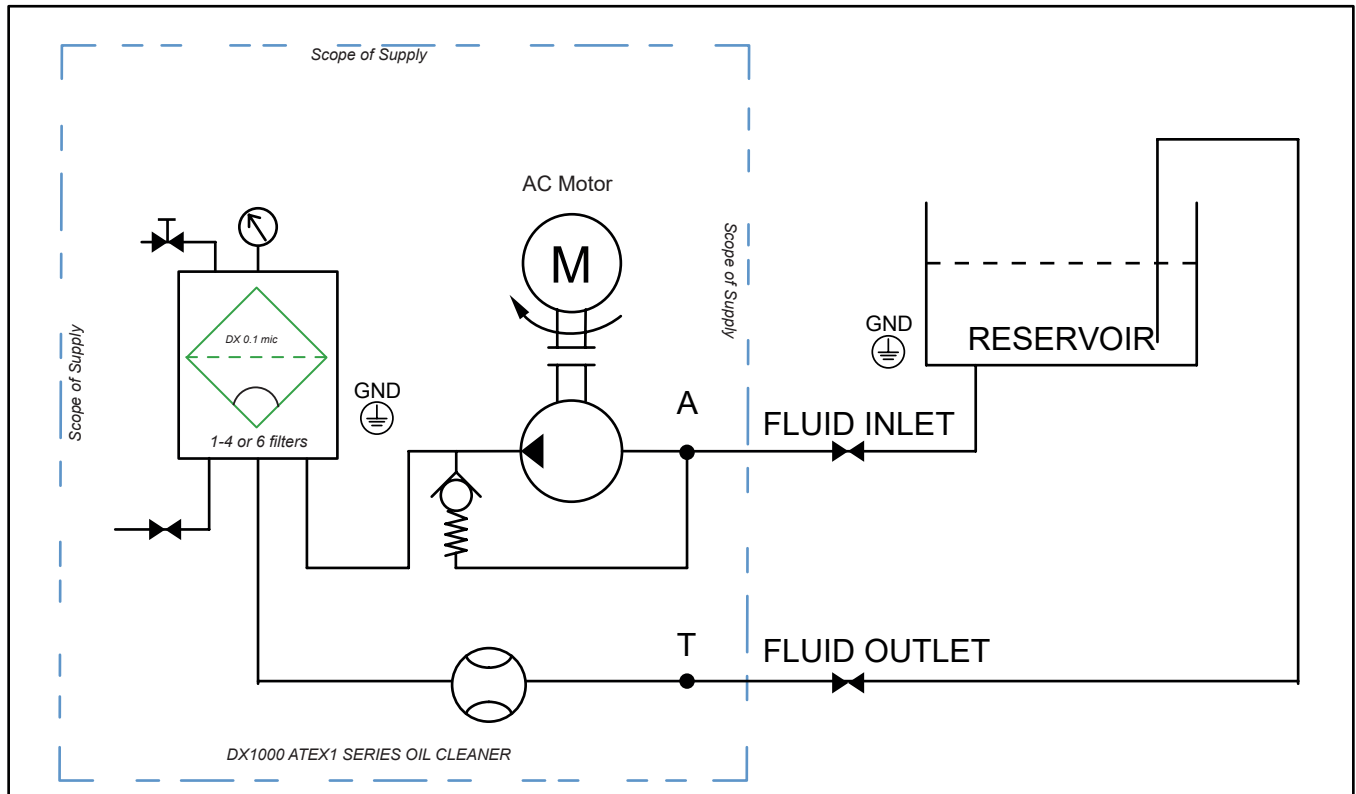
 Note oil temp. will change cSt, hence flow

')

 DXPT inserts for fuel


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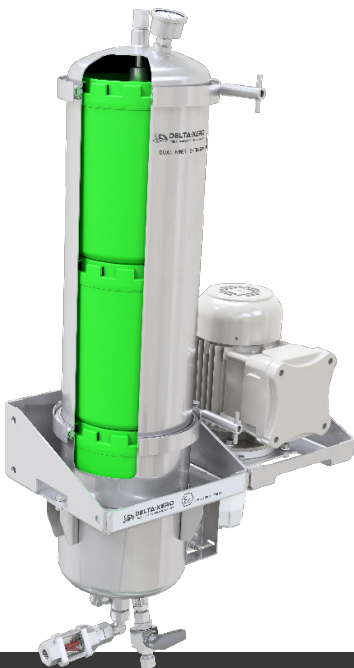
Schematic layout view of a typical assembly



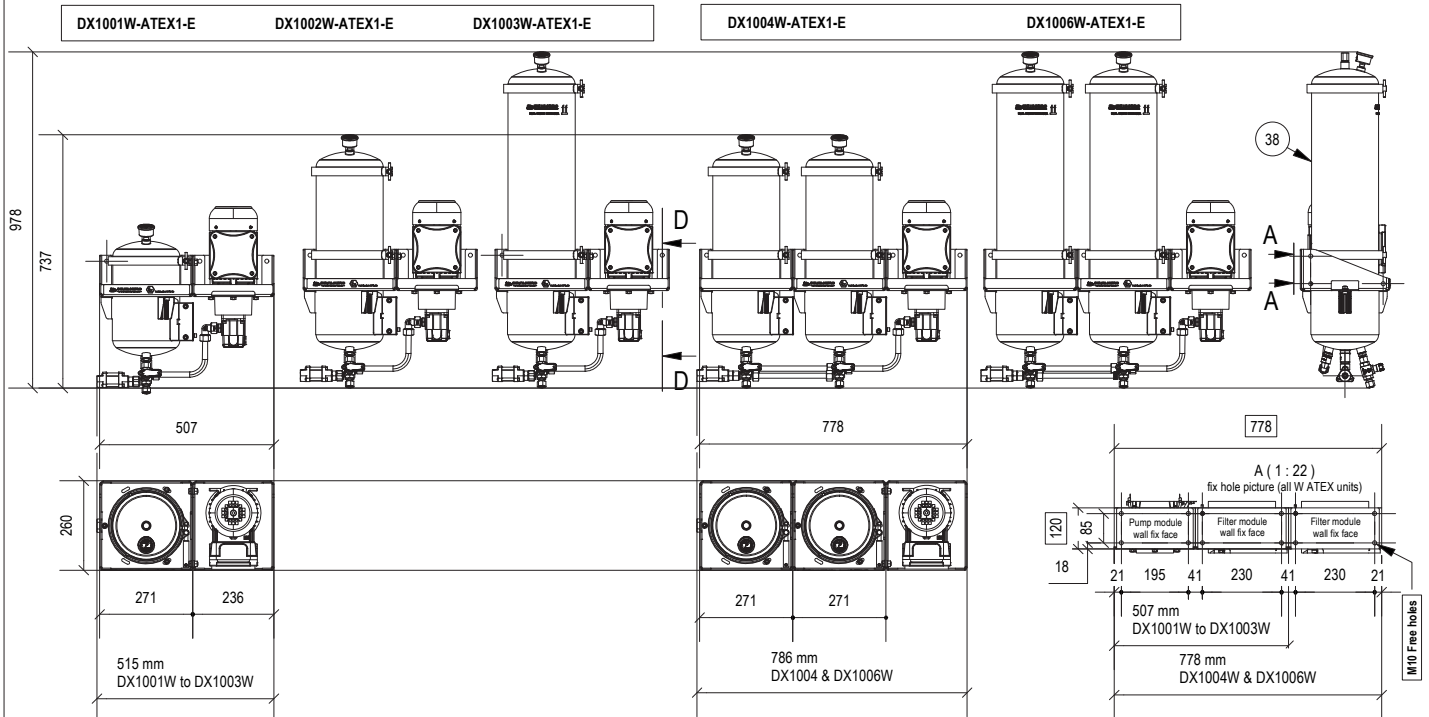
Delta-Xero® filtration and cleaning setup

Delta-Xero makes lube oils last and improves oil quality effortlessly for a long extended period with no degradation of the oil, preventing varnish coating in oil coolers, tanks and pipes. An installation requires no downtime as the cleaning circuit is carried out in an independent loop often called side stream or off line -filtration. The schematic above shows a typical installation of a Delta-Xero unit onto an oil reservoir.

To the left a visualization of the DXO inserts stacked inside the Delta-Xero filterunit, allowing for several inserts via one quick clamp. No tools required. All filters are parallel with the very best cleaning abilities.



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ALL UNITS ARE EQUIPPED WITH HYDRAULIC PRESSURE RELIEF GEAR PUMPS. PUMP SIZE AND PORTING MAY DIFFER DEPENDING ON WHAT VISCOCITY FLUID YOU ARE PUMPING THROUGH THE DELTA-XERO FILTER & OIL CLEANING SYSTEM

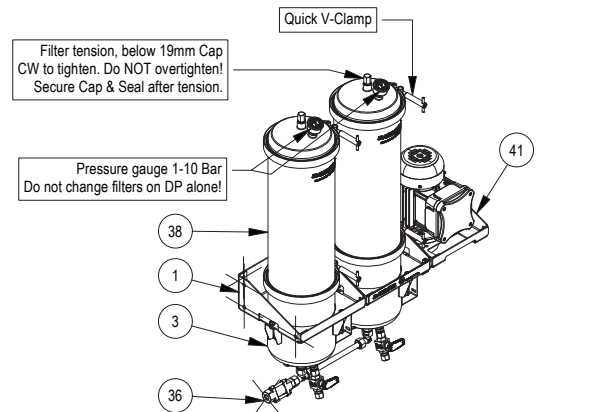
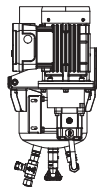
ABOUT PORT DIMENSIONS:

DX1001W-ATEX1-E, DX1002W-ATEX1-E, DX1003W-ATEX1-E:
STANDARD PUMP SUCTION PORT SIZE IS G3/8" FOR THE 1.2 CC PUMPS
STANDARD PUMP SUCTION PORT SIZE IS G3/8" FOR THE 3.8 CC PUMPS
RETURN LINE VIA FLOW INDICATOR: G3/8"

DX1004W-ATEX1-E & DX1006W-ATEX1-E:
STANDARD PUMP SUCTION PORT SIZE IS G1/2" FOR THE 7.8 CC PUMPS
RETURN LINE VIA FLOW INDICATOR: G1/2"

E= ELECTOMOTOR ZONE, VOLTAGE, HZ MUST BE SPECIFIED.

D-D (1:22)



Electric Motor Versions



Orange1 - II 2 G Ex db h IIC T4 Gb -20°C ≤ Ta ≤ +50°C
Delphi - II 2 G Ex eb h IIC T4 Gb -20°C ≤ Ta ≤ +40°C

Pneumatic Motor Versions



Gast - II 2 G Ex h IIC T4 Gb -1°C ≤ Ta ≤ +40°C
Globe - II 2 G Ex h IIC T4 Gb -20°C ≤ Ta ≤ +40°C

PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
1	2	DX21B	WALLMOUNT BRACKET FOR HOUSING MOUNT	SS316L/EN 4404
3	2	DX05B	CANISTER MOUNTING CLAMP ASSEMBLY (BEAD BLASTED)	SS316L/EN 4404
36	2	[DXF216]	G3/8" BSP OR G1/2" STAINLESS STEEL, VISUAL FLOW INDICATOR, VITON SEAL	SS316L/BOROSILICATE
38	2	DX-1-2-3	CAN FOR THE STACKABLE DELTA-XERO CARTRIDGES. 1 TO 3 FILTERS	SS316L/EN 4404
41	1	PMA-14.71- ATEX1	AC MOTOR & PUMP, VSC2 /2AM-92ARV-14.71- 1.2CC/3.8/6CC	



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