

# LENNTECH

info@lennotech.com Tel. +31-152-610-900  
www.lennotech.com Fax. +31-152-616-289

## Zeta Plus™ U2 & U2W Series Utility Series Depth Filter Cartridges

Zeta Plus U2 and U2W Utility Series filter cartridges are specifically designed to provide high efficiency and cost effective filtration of dielectric oils for the power generation industry. U2 grades remove particulate and lower levels of moisture while U2W grades have been optimised to remove higher levels of moisture together with particulate contamination.

### Composition

The U2 and U2W grades are composed of cellulose and microfibrils with specially selected inert filter aids and charge enhancing resin. The U2W grades are constructed with an additional high capacity water absorbing media. Both grades provide reliable filtration even under the most demanding operating conditions. Zeta Plus U2 and U2W cartridges are available in two cartridge heights, single or double, for easy installation and removal. Features include optional Zeta Plus Lifting Device handles to limit contact with oils, and water-impervious foil packaging to prevent absorption of atmospheric moisture prior to use.

To minimise potential for moisture re-entrainment and ensure high efficiency particulate removal, it is recommended cartridges be replaced when a differential pressure of 1.4 bar (20 psid) is reached.



## Features & Benefits

### Patented, charge-modified Zeta Plus media

- High efficiency electro-kinetic adsorption of fine particulate

### Durable, pre-tensioned cartridge construction

- Reliable cartridge sealing to eliminate filter by-pass

### High capacity U2W moisture removal formulation

- Complete removal of moisture in addition to particulate from heavily-contaminated oils
- Automatic cut-off for reliable water removal without re-entrainment
- Significantly improved dielectric values

### Multiple cartridge height construction and optional Zeta Plus lifting device

- Easier cartridge installation and removal from housings
- Minimal operator contact with dielectric fluids

### High particulate and moisture removal capacity

- Cost effective filtration in a broad range of applications

### Optional water impervious foil packaging with desiccant

- Maximises moisture capacity by eliminating exposure desiccant to environmental moisture in high humidity areas

### Combination packaging options - one change-out set

- User friendly packaging for convenient storage and of cartridges per carton handling

## Applications

Dielectric Oils

Fuels

Hydraulic Fluids

Lubricating Oils

Machine Cutting Tool Oils

Machine Oil

Quenching Oil

Turbine Oil

The 3M logo, consisting of the letters '3M' in a bold, red, sans-serif font.

## US Zeta Plus U2 & U2W Series Ordering Guide

Cartridge Diameter	Cartridge Height	Construction	Gasket Material	Packaging	Media Grade	Media Formulation
<b>U2 Grade</b>						
<b>Z2UC</b> (12" Diameter)	1 - Single Height 2 - Double Height 3 - Combination*	1P - Without Handles 2P - With Lifting Handles	D - Nitrile	1 - Standard (poly bags) 2 - Water-impervious foil bag	05	<b>U2</b> - Particulate removal from dielectric oils
<b>U2W Grade</b>						
<b>Z2UD</b> (12" Diameter)	1 - Single Height 2 - Double Height 3 - Combination*	1P - Without Handles 2P - With Lifting Handles	D - Nitrile	1 - Standard (poly bags) 2 - Water-impervious foil bag	05	<b>U2W</b> - Particulate and water removal from dielectric oils

\*Combination packaging consists of a single box containing one 1-high cartridge and one 2- high cartridge.

Cartridge Configurations						
Part Number	Diameter (inches)	Height (cm)	Cells	Area (m <sup>2</sup> )	Units Per Carton	Media
Z2UC1	12	19.53	7	0.65	2	05U2
Z2UC2	12	39.05	14	1.30	1	05U2
Z2UD1	12	18.73	6	0.56	2	05U2W
Z2UD2	12	37.47	12	1.11	1	05U2W

Operation Parameters	
Maximum Media Operating Temperature	60 °C
Maximum Operating Differential Pressure	2.5 bar
Recommended Flow Rate	0.38 l / m <sup>2</sup>
Z2UD2	15.91 cm

**The Zeta Plus Utility Series Advantage**

- Optimised cartridge design for high efficiency and cost effective filtration of service aged oils
- Patented, charge-modified media for electro-kinetic adsorption of fine particulate
- U2W formulation for removal of high levels of moisture from dielectric oils
- Multiple height cartridges for easy cartridge installation and removal
- Pre-tensioned cartridge construction for reliable cartridge sealing
- Wide range of housings and mobile systems for easy, on-site oil reconditioning

**Important Notice**

3M Purification MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Since a variety of factors can affect the use and performance of a 3M Purification product in a particular application, some of which are uniquely within the user's knowledge and control, user is responsible for determining whether or not the 3M Purification product is fit for a particular purpose and suitable for user's method of application.

**Limited Warranty**

3M Purification warrants it this product to be free from defects in material and workmanship during normal use for a period of one (1) year from the date of shipment from the factory. If the Product(s) is (are) defective within this warranty period, your exclusive remedy and 3M Purification's sold obligations shall be, at 3M Purification's option, to replace or repair the Product(s) or refund the original purchase price of the Product(s). This warranty does not apply to failures that result from abuse, misuse, alteration or damage not caused by 3M Purification or failure to properly follow installation and use instructions.

**Limitation of Liability:** 3M Purification will not be liable for any loss or damage arising from the use of the Product(s), whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you.

This warranty gives you specific legal rights and you may have other rights which vary from state to state, or country to country.

Zeta Plus and 3M are trademarks of 3M used under license.

**LENNTECH**  
 info@lenntech.com Tel. +31-152-610-900  
 www.lenntech.com Fax. +31-152-616-289



Data may be subject to change without further notice.

© 3M 2010. All rights reserved.

DOC10032  
 LITCTZPUUW2.EU - 0810