



clearcurrent® TS1000 Panel Filter

Gas turbine inlet air quality is critical to overall system performance. The clearcurrent TS1000 coalescer panel filter delivers outstanding coalescing performance with low pressure drop, low maintenance, and a long service life.

Constructed from 100% synthetic high performance woven mesh, the CLARCOR Industrial Air's clearcurrent TS1000 coalescer is designed to operate in the harshest conditions, such as those experienced in coastal desert environment locations.

The coalescing and pressure loss characteristics of the clearcurrent TS1000 coalescer panel filter remain enhanced whether operating in wet or dry conditions. This coalescer offers a significantly lower dust removal efficiency to deliver a long life service. The woven mesh construction of the clearcurrent TS1000, installed within the gas turbine air intake system, is intended to capture and coalesce very small water particulate droplets.

As filter elements are exposed to fine water droplets such as fog, the filters may get wet, and because of high differential pressure across the filters, may lead to less efficiency and reduced filter performance. If the high efficiency filter is not hydrophobic (not moisture repellent), then in addition, moisture droplets (potentially containing salts) may leach through the filters. The end result may be power output reduction, unplanned shutdowns, and potentially significant damage to compressor and turbine components.

The clearcurrent TS1000 coalescer can be washed in place without being removed, and is easily cleaned using low-pressure cold water or compressed air. If necessary, greasy contaminants can be removed by washing with CLARCOR Industrial Air filter cleaning fluid and rinsing with fresh water. Cleaning the clearcurrent TS1000 coalescer, under many conditions, may help to restore efficiency and pressure loss.

KEY BENEFITS

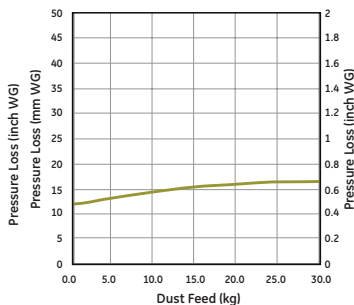
- Excellent fine mist/fog coalescing efficiency
- Low maintenance
- Low pressure drop
- Long operating life
- Contributes to reduced final filter pressure loss and reduced operating costs
- Fits a range of new and retrofit configurations

Clean Pressure Drop

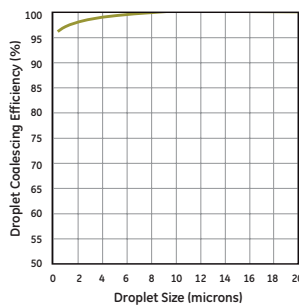
Pressure Drop at rated flow
Pa Inch w.g.

For Donaldson weather hoods	140	0.56
For Braden weather hoods	75	0.30

Dust Retention at 450 ft/min Face Velocity



Water Droplet Coalescing Efficiency at 450 ft/min



For more information, contact your clearcurrent representative at [CLARCOR Industrial Air](#):

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