



# Radian Separators & Coalescing Systems

a Nexo Solutions Technology

The Radian Separators & Coalescer Systems by Nexo Solutions is a result of more than 15 years of testing and troubleshooting coalescing and filtration vessels globally. We have incorporated multiple features and designs combining them into a unique technology for liquids and solids separation and coalescing in gas streams. There are several components in the Radian Separators & Coalescers, each directed towards a unique removal process. The vessel designs are flexible to target different applications and requirements such as:

- Liquids slug separation
- Continuous bulk liquid separation
- Aerosol separation (down to 0.1 microns)
- Combined slug, bulk and aerosol separation

The Radian vessels have specially designed internals to distribute the flow evenly inside the separation vessel and elements. This is followed by our unique radial separation process consisting of radially rotating the gas flow taking advantage of centrifugal forces to remove both liquids and solids. Liquids separation occurs from large liquids droplets to smaller aerosols down to 50 microns in size. This is followed by a microfiber sub-micron separation section. This means that the Radian Separators & Coalescers have three (3) distinct separation stages for added performance. Vessel designs can be horizontal or vertical to accommodate all plant needs for space and height limitations. The Radian Separators and Coalescers can be used in numerous applications such as:

- Plant inlet and slug catchers
- Inlet separation & coalescing to amine units
- Inlet separation & coalescing to dehydration units
- Compression suction KO Drums and Compressor discharge coalescers
- Residue gas, product gas or sales gas
- Pipeline gas interconnections
- Gas-solid or gas-liquid separation & coalescing in general

