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Dividing Wall Columns in Petrochemical Industry

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Synopsis

Distillation and absorption are very common separation techniques used in the process industries. Both techniques require a large amount of energy due to the heating and cooling involved in the process. These techniques were mostly designed more than a decade ago when the economic, political and societal scenarios were different. It would be desirable to reduce the energy cost in the interest of economy as well as society.

There are complex separation configurations available that offer substantial reduction in energy and capital expenditures. Divided wall columns (DWC) for the distillation of multicomponent mixtures have received much attention in the past 15 years and have experienced a booming development.

The objective of this work is to present the Dividing wall Column case studies based on revamp and grassroots installations in India.