



→ **GT-DWC**SM

Dividing Wall Column Design Saves Cost and Energy

GT Technology
→ Engineered to Innovate®

Dividing Wall Column Design Saves Cost and Energy

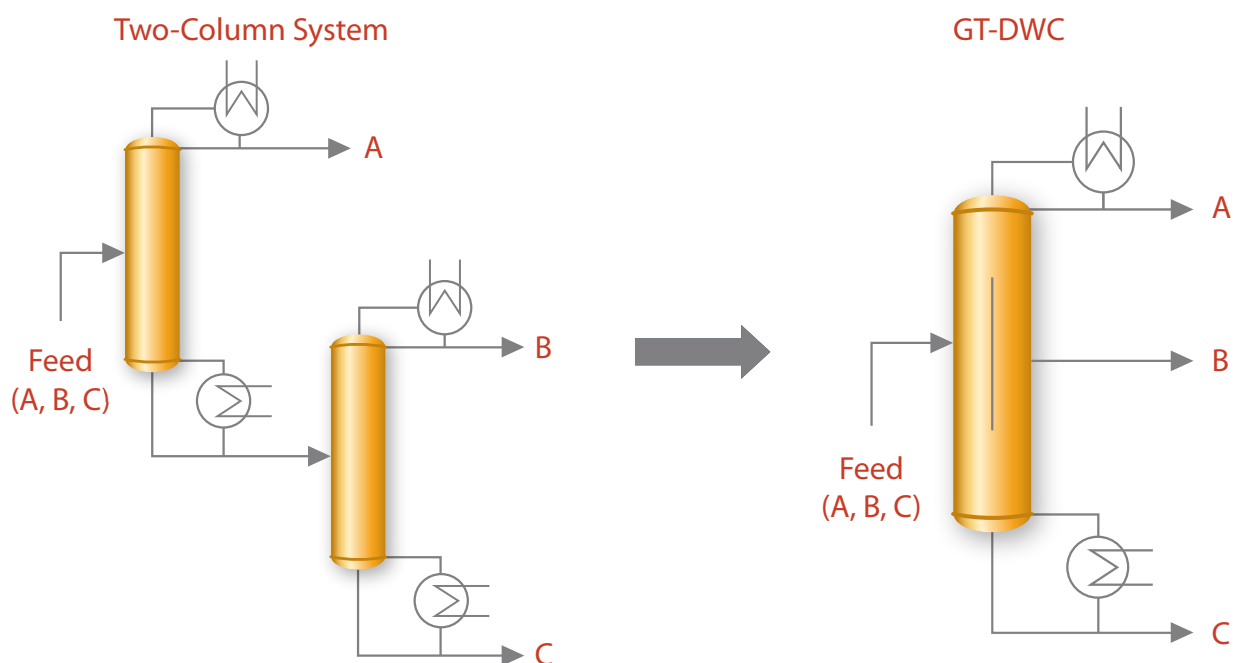
GTC Technology is widely known for innovation, technical knowledge and commitment to excellence through proprietary technologies and customized solutions. Our process equipment technology offerings include the dividing wall column (DWC), which separates a multi-component feed into three or more purified streams within a single tower, thereby eliminating the need for a second column. This design saves capital and energy costs normally invested in a separation unit.

The DWC design uses a vertical wall to divide the middle of the column into two sections. The feed is sent to one side of the column called the pre-fractionation section. There the light components travel up the column where they are purified while the heavy components travel down the column. The liquid flow from the column's top and the vapor flow from the bottom are routed to their respective sides of the dividing wall.

From the opposite side of the wall, the side product is removed from the area where the middle boiling components are most concentrated. This arrangement is capable of producing a much purer middle product than a conventional side draw column of the same duty, and at a higher flow rate. And for the same product specifications, GT-DWC requires substantially lower capital and operating cost than a conventional two-column system.

The technology is especially suited for removing a heartcut from a multi-component mixture, where the alternative is a series of fractionating towers.

GT-DWC versus Conventional Two-Column System



One-Stop Shop – Minimize work and cost by ordering the complete system from GTC



Process Design and Control Scheme

- Conceptual design to basic engineering package of the dividing wall column, coupled with dynamic simulation modeling, ensures reliable process design and a solution that is optimized for your specific application.

- Our integration of process and application knowledge results in innovative designs of DWC internals.
- GTC internals ensure correct pressure balance and arrangement along with internal distribution. This is the key to reliable, trouble-free operation of dividing wall columns.

DWC Internals

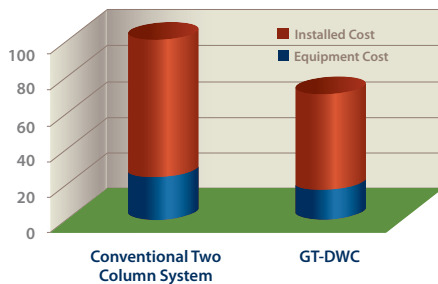
- GTC is a leading supplier for column internals of all types.

Engineering Services

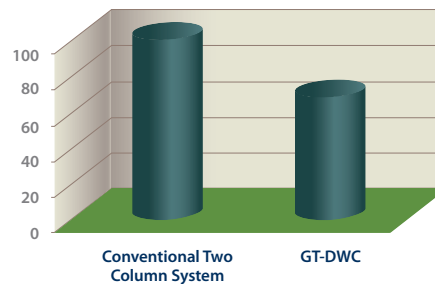
- GTC provides detailed engineering, procurement and construction management for all DWC applications.

Benefits of GT-DWC

GT-DWC CAPEX is lower by 20-30%



GT-DWC OPEX is lower by 20-30%



Equipment Count & Plot Space

	Conventional Two Column System	GT-DWC
Column	2	1
Reboiler	2	1
Condenser	2	1
Pump	4	3
Plot Space	100%	70%

Engineered to Innovate

To learn more about GTC Technology’s leading-edge technology solutions and the many ways we can help improve your operations and profitability, call us today at +1-281-597-4800, e-mail us at inquiry@gtctech.com or visit our Web site at <http://www.gtctech.com>.

GT-DWCSM is a service mark of GTC Technology US, LLC.



+1-281-597-4800

inquiry@gtctech.com

www.gtctech.com

GTC Technology is a global licensor of process technologies and mass transfer solutions with the mission of creating value for our clients. Refining, petrochemical and chemical companies around the world rely on GTC's advanced processes to optimize production capacity and efficiency. With insightful industry expertise, research capabilities and innovative thinking, GTC solves complex processing problems and has earned a reputation of excellence in designing and delivering high-quality, strategic solutions for clients worldwide. We're engineered to innovate.