



Q.B. JOHNSON
MANUFACTURING, INC.

A Leader in Gas Conditioning Technology

www.qbjohnson.com

Outline:

The QBJ Condensate Field Stabilization Unit (FSU) uses field proven conventional technology to produce 9 to 11 RVP stabilized and transportable product from raw condensate. The condensate FSU is designed for ease of operation (minimal field operational experience), ease of transportation, and reliability under varying conditions. The QBJ Standard FSU Design allows for quick repeatable deliveries and performance, reducing your time to market.

Advantages on QBJ Field Stabilization Units

Easy to transport (no permit loads required)

Short installation time

Easy to operate

Low maintenance

Quick delivery

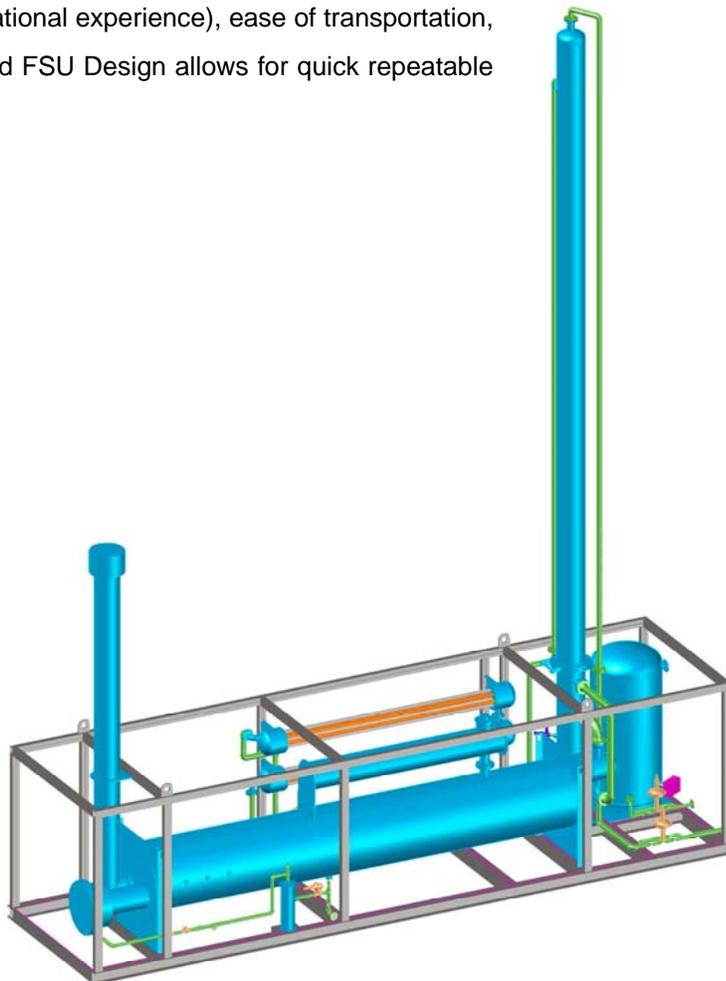
Process Description:

Field stabilization is the preferred method of processing highly volatile condensate. The condensate is normally a high vapor pressure material which will lose appreciable volume when stored in atmospheric tanks. The stabilizer reduces the vapor pressure to the optimum level with minimal loss of volume.

The raw condensate from upstream separation flows through the channel side of the feed bottom heat exchanger and then to the inlet feed on the stabilizer column. Within the column, the cool unstable liquid descends through ascending warm vapors heated by the once through BEU reboiler connected to the lower section of the column. By controlling the pressure and temperature of the column, the fractionation will produce a bottom product of the desired RVP.

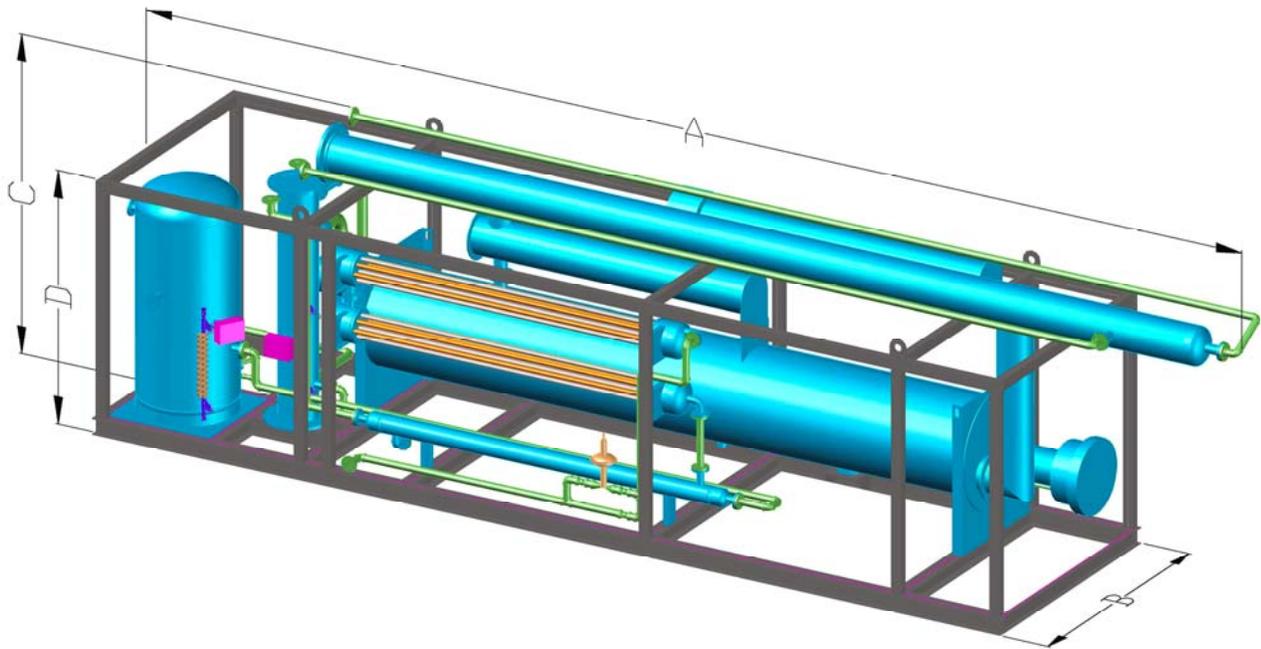
The product distillate flows from the stabilizer through the feed bottom heat exchanger to the finned tube horizontal product cooler through the level control valve to storage.

The overhead vapors flow down from the top of the column through the finned tube horizontal vapor cooler. The result two phase flow will be run to a blow-case separator where liquids drain into the blow-case portion of the vessel and the vapor exits the top. Compressed liquids piped to skid edge and vapors will flow to the pressure control valve and then directed to skid edge where they are routed to low pressure sales or compression.



Our Field Stabilization Units:

These standard FSU's are designed as standalone units that do not require power, ideal for remote locations. The standard FSU's have a flexible operation range with capacities up to 2,000 BPD. Each unit is designed and constructed to ASME, TEMA and API standards. The standard QBJ FSU's are easily transported with hinged column and stack which facilitate minimal field installation time and expense. The proven pneumatic controls provide for ease of operation and repeatable product RVP and ease operation.



Aproximate Dimension and Weight:

Capacity (BPD)	Reboiler Duty (MBtu/hr)	Column OD (in)	Column MAWP (psig)	Shipping Weight (lbs)	*Shipping Dimensions			
					A Length	B Width	C Height	D Height
up to 1,000	750	14	175	18,200	36'-6"	8'-0"	10'-0"	8'-0"
up to 2,000	1500	24	175	27,000	38'-0"	8'-6"	11'-0"	8'-0"

**Dimensions with stabilizer column and stack on horizontal position.*

Options:

Burner Management System	Low MDMT
Electronic Instrumentation	NACE for Sour Service
Gas & Liquid Metering	Inlet ESD
Diaphragm Pump (absence of high pressure gas)	Additional Cooling



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