



## CONDENSATE STABILIZER UNIT

Stock units available up to 5000 bpd nominal capacity

### Key Benefits

Safely stabilize condensate liquids with Exterran's pre-engineered, modular design.

Efficiently separate and capture valuable Natural Gas Liquids (NGLs) down to 10 RVP or less.

Save startup time and simplify connection with Exterran's uniform isometric piping.

Maximize production and minimize downtime with the proven design and construction of an industry leader.

Get fast professional service and support with local technicians and spare parts in every major oil & gas-producing area.

### Standard Product Features

Condensate stabilizer tower

- Stainless steel packing
- Multiple stages of separation

Inlet heat exchanger

- Shell and tube

Outlet gas ambient air cooler

Indirect heater with expansion tank

- Removable fire tube
- Burner safety low (BSL)/igniter
- Removable coil
- Fuel gas assembly & flame arrestor
- Removable ladder

Vertical three-phase separator

Vertical blowcase

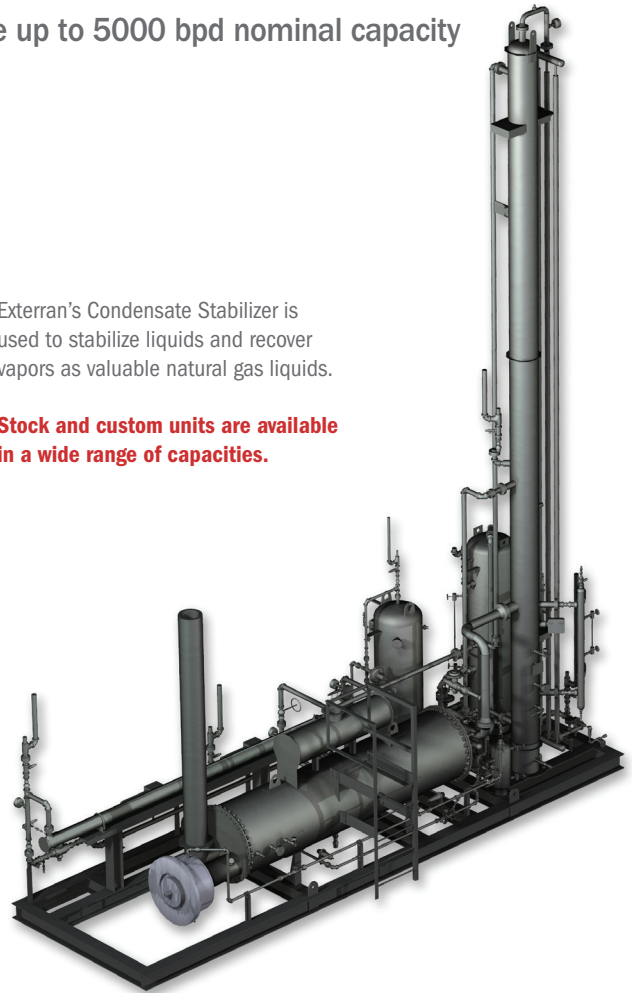
Pneumatic instrumentation

High/low shutdown valve

Heavy-duty oilfield skid with lifting lugs

Exterran's Condensate Stabilizer is used to stabilize liquids and recover vapors as valuable natural gas liquids.

**Stock and custom units are available in a wide range of capacities.**



### OVERVIEW

The Exterran Production Solutions™ Condensate Stabilizer Unit is designed to minimize startup time, safely stabilize condensates by reducing Reid Vapor Pressure (RVP) and efficiently capture Natural Gas Liquids (NGL) in wellstreams.

### HOW IT WORKS

After upstream separation, the condensate stream enters the unit. It is first preheated in the inlet heat exchanger and then flows into the upper section of the stabilizer tower. Inside the tower, the light components – typically methane, ethane, propane, and butane – rise and exit the overhead vapor outlet. The heavier liquid components descend and pass through the indirect heater to cause additional vapor to flash off, rise and exit the tower.

Stabilized liquids collect in the bottom of the tower. They are routed to the inlet heat exchanger to cool. Stabilized liquid product then flows to storage tanks.

The vapor that exits the tower flows through an ambient cooler and then to a low-pressure separator. Gas from the separator is routed to compression for delivery to market. NGLs exit the separator and flow to a blowcase where they are pressurized for a bullet tank or pipeline.

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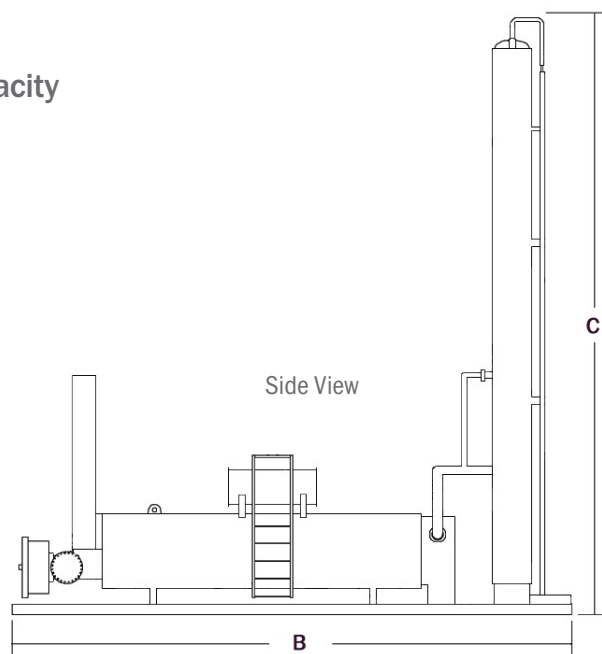
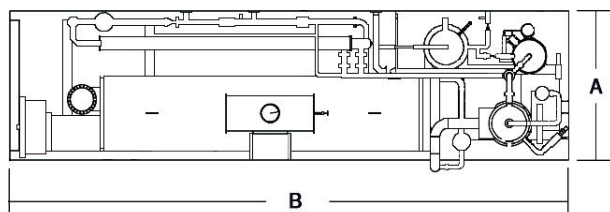
Stock units available up to 5000 bpd nominal capacity

## Sizing and Options

Contact an Exterran sales representative or email [PEQ.Proposals@exterran.com](mailto:PEQ.Proposals@exterran.com) to submit sizing information and obtain a quote.

## STOCK DIMENSIONS

Top View



NOTES: See the shipping dimensions in the specifications table below. The tower, heater stack and ladder are removed for shipping. Shipping dimensions shown here are approximate and may vary. Precise measurements for freight permits should be confirmed prior to shipping.

Specifications										
*Nominal Capacity bpd	Heater MBtu/Hr	Tower OD In	Tower MAWP psig	NGL Separator OD in	A Width ft	B Length ft	C Height ft	Inlet/Outlet 150 RF in	Shipping Dimensions (w/o tower & stack) W x L x H ft	Total Shipping Weight lbs
up to 1000	750	14	150	24	8.0	26	34	2	8.0 x 26 x 10	16,200
up to 2000	1500	24	150	24	8.5	32	34	3	8.5 x 32 x 13	24,000
up to 5000	3000	36	150	36	17	33	37	6	(2X) 8.5 x 33 x 13	56,000

\*Capacity varies with operating conditions. Custom units also available. Ask your sales representative for complete details.

## Options

- Burner management system
- Electronic instrumentation
- Gas metering
- Liquid metering
- Flow assurance equipment
- Cold weather option
- NACE compliance
- Stack arrestor
- Additional cooling

Additional equipment available

## Sizing Requirements

<b>Inlet Flow</b>	Pressure (psig)	
	Temp. (°F)	
	Rate (bpd)	
	Fluid composition analysis	
<b>Outlet</b>	Stabilized fluid RVP	
	Max Temp. (°F)	
<b>Sour Service</b>	Yes / No	
	CO <sub>2</sub> (mol%)	
	H <sub>2</sub> S (ppm)	



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