

Methanol - Mixed Alcohols Production System

Capacity 5 MGY

Partial Plant—Surplus Assets to the Ongoing Operation

— Like New —

Mixed Alcohols and/or Crude Methanol Production: Partial Plant & System: LIKE NEW - ran less than 2 months !! Catalytic Conversion of Organic Alcohols—produced mixed alcohols. Designed for 125 TPD woody biomass input, for 5 MGY (million gallons per year) methanol output. Plant was designed to convert biomass gas into organic alcohols using the Fischer-Tropsch Process. It is a pentane based batch azeotrope separation system. The woodyard & gasifier system are not part of this sale. However, most Fischer-Tropsch process equipment and systems downstream are included: Metso feeder system, Quench, Gas Cleanup, Compression (2 sets), Catalytic Converter, Alcohol cooling/compression. Equipment was purchased in 2009 and installed in 2009/2010. Manuals and drawings available. Price includes all interconnecting piping, structure, and instruments, but does not include removal. We can remove and load for you if desired. See [website](#) for complete arrangement and details.

Note: This is a Partial Plant & Equipment Sale. Real Estate and Plant Proper are not included. Boiler, Air, Waste Water, Loadout not included. Surplus to ongoing operations.



Methanol Plant System —Item fp100

Designed for 5 MGY output (million gallon per year) with a woody biomass input of 125 short tons per day.

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<p><u>Gas Cleanup & Compression</u> Syngas cleanup and compression including absorber column, two 1750HP compressors, and 140T Frick refrigeration system MODULE: Item FP31</p>	
	<p><u>Catalytic Conversion System / Alcohol Synthesis</u> Catalytic conversion of syngas to alcohols. Catalytic converter designed for 14,500 gal/day methanol, Syngas compressor 600HP. MODULE: Item FP41</p>
<p><u>Absorber & Gas CleanUp Skid</u> Includes <u>absorber column</u> 5' x 87' tall , solvent recirculation & cooling system, and <u>Frick rotary screw</u> 140 ton refrigeration system, ammonia R717, evap condenser, receiver. Item FP311</p>	
	<p><u>Gas Compressor 1750HP Skid</u> Gas Compressor module - 2 stage White Superior reciprocating compressor, 2 cylinder. Rated 14,475 #/hr at 425 psi, 1750HP motor. Item FP314</p>
<p><u>Gas Compressor 1750HP Skid</u> Gas Compressor module - 2 stage White Superior reciprocating compressor, 2 cylinder. Rated 14,475 #/hr at 2500 psi, 1750HP motor. Item FP315</p>	
	<p><u>Catalytic Converter Skid</u> Alcohol synthesis and HP steam system - Syngas catalytic converter module. Loaded with conventional methanol catalyst currently for 14,500 gallons/day methanol/ mixed alcohols Item FP411</p>
<p><u>Synloop Compression Module</u> Synloop compressor module rated at 1650 psig at 275 600HP motor. Skid and accessories. Item FP415</p>	

Terms: All equipment is sold As Is Where Is, Subject to prior sale and availability. All quotes are in US Dollars unless specifically noted otherwise. Description of the equipment - especially those relating to capacity, size, or condition - are stated as clearly as possible for information to the buyer or observer. The descriptions and representations cannot be taken as accurate. The buyer has the sole responsibility to determine size, capacity, capability, suitability, condition, or any other attribute pertaining to the piece of equipment represented or purchased. The assets are sold "As Is", "Where Is" and "with all faults" and except as explicitly stated in the Contract for Purchase. All warranties, including, without limitation, the warranties of merchantability, quality, and fitness for a particular purpose are hereby expressly excluded. Seller makes no representations or warranties as to design, condition, capacity, performance, or any other aspect of the asset.

Process Flow Diagram Available on request