

ROTAX SYSTEM SPECS

SYSTEM SPECIFICATIONS

CONTROLS & ELECTRICAL

FLA	173.6 FLA @ 480V
Breaker Size	200 Amp @ 480V
Voltage/Phase	480V 3 Phase
Frequency	60Hz
Network Connectivity	CAT6
Emergency Stop	Standard Switches
Certifications /Ratings	UL Certification 508A, Nema Type 4-X, Calibration (5 point), Material Certs Avail., Canadian Registration Avail., Available Up to Class 1, Div 1
Alarms	Visual, Optional Audible
Interface	Simatic WinCC

OPERATIONS

Extractor Columns	8 chamber
Solvent Storage	600 gallon
Miscella Receiver	300 gallon
Oil Day Tank	265 gallon
Skid 1	Extraction Skid
Skid 2	Oil Separation
Skid 3	Drying Screw
Skid 4	Molecular Sieve
Skid 5	Solvent Storage

COOLING UTILITIES

Subzero Chiller - Dynalene	162,600 BTU/HR @ -50F
Standard Chiller - Glycol	360,000 BTU/HR @ 0F
Cooling Tower - Water	1.5MM BTU/HR
Total Cooling Load (CTs & Condensor)	2MM BTU/HR

HEATING UTILITIES

Heating Utility	Low Pressure Steam
Heating Utility Dimensions	33"W x 100"L x 74"H
BTU's Required of Heating Utility	1,722,000 BTU/HR



SYSTEM & FACILITY REQUIREMENTS

Total Skids	5
Min. Facility Size	4,000 sq. ft.
Equipment height	22ft. recommended 25ft. + clearance
Facility Demands	Compressed Air Nitrogen Water
Processing Rate	500lbs/hr

UTILITY ELECTRICAL REQUIREMENTS

Subzero Chiller - Dynalene	222FLA @ 480V
Standard Chiller - Glycol	185FLA @ 480V
Cooling Tower - Water	Included in Main Panel
Heating Utility	10FLA @ 115V/1ph

AIR UTILITY REQUIREMENTS

Air Requirements	3865 CF/Day @ 90 PSI
Per Skid Air Surge Requirement	6 CFM @ 90 PSI



*Information based on standard ROTAX System components for Biomass processing. Excludes feed equipment. Subject to change at any time.

*Controls and Electrical based on standard ROTAX System components. Excludes Utility Equipment not controlled by Main Panel (Boilers, Chillers, etc.). Utility Equipment is determined by customer. Subject to change at any time.

*Assumes Biomass feed rate of 500lbs/hour and 4:1 Ethanol to Biomass Ratio by wt.

*Assume ideal biomass specifications

*Assumes Biomass extraction at -40F

*Heating Utility dimensions specific to Boiler dimensions only

*Utilities based on biomass processing using ethanol solvent

*Heating and Cooling Utilities based on Equipment Specifications

*Air consumption can vary based on panel location and purge requirements

*Larger utilities available upon customer request

*Assuming Mol Sieve part of standard package