







DESCRIPTION

The E2W dewaxing skid provides an automated way to dewax extracts. The system is intended to interface with the E2Di system which will introduce conditioned extract into the E2W apparatus. The E2W skid features an automated ethanol mixing and dilution tank that is insulated and chilled with a recirculating glycol chiller. The filtration system features a two stage filtration housing with single stage falling film solvent recovery.



FEATURES

-  **Interfaces with E2Di Skid**
-  **Automation of Batch Dewaxing of Extracts**
-  **Two Stage Vacuum Filtration**
-  **Integrated Falling Film Solvent Recovery**
-  **Optional Solid Phase Extraction Module**
-  **CIP Connections**

EXTENDED

GMP COMPLIANCE

- Intended for use with ethanol and botanical extracts.
- Process: Dissolution, Mixing, Precipitation, Filtration, Solvent Recovery
- Containment: Contained process
- Lubricants: None in direct contact. No contact with process fluids.
- PLC GAMP5: Category 3
- Materials Traceability & Manufacturers' DOC for Contact Materials
- Elastomeric Seals: PTFE, FEP, PEEK

SYSTEMS CLASSIFICATIONS

- Dewaxing Skid
- Components: Vessels, Pumps, Vacuum Pumps, Falling Film Evaporator, Filter
 - Type: Direct Impact
 - Documentation: GEP Startup, Commissioning, Qualification
- Off Skid Components
- Chiller 1
 - Chiller 2
 - Heater 1
 - Type: Direct Impact
 - Documentation: GEP Startup, Commissioning, Qualification

CLEANABILITY

- Surface Finishes: 0.8 µm or better on all contact surfaces
- Welds: Ground, Argon Purged
- Fittings: Sanitary
- CIP: Sprayball, Low Point Fluid Exit
- CIP: External

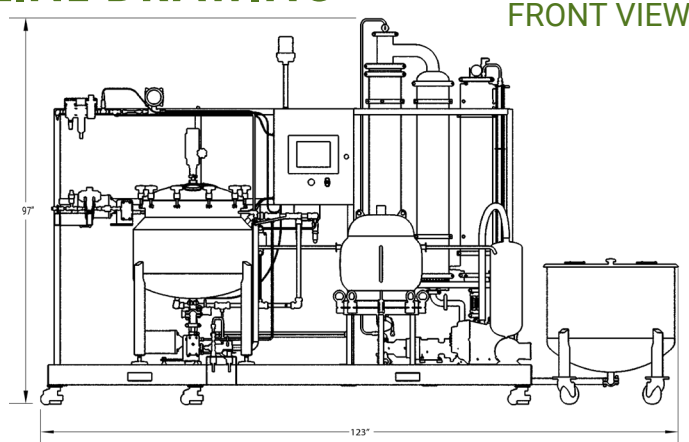
SPECIFICATIONS

ATTRIBUTE	VALUE
General Specifications	
Dimensions (in)	L36" x W123" x H97"
Unit Weight (lbs)	882
Footprint (sq ft)	25
Heat Load (kW)	0.9
Mobility:	Leveling Casters
Electrical Specifications	
Voltage (VAC)	208-230/380
Full Load Amps (amps)	25A for 240V 35A for 380V
Phase	3
Frequency (Hz)	50/60
Bonded & Grounded to all external vessels required	
Off Skid Utilities Required	
Heater/Chiller 1, 1 zone	6kW @ 200°C 10.2 kW @ -40°C
Chiller 2, 1 zone	5hp
Heater 2, 1 zone, Recirculation, 1 zone	18kW
Compressed Air for z purge, 80 psi, clean dry de oiled air	
CIP	off skid
Compressed air for pump 32 cfm (psi)	80-150
Off Skid Vessels Required	
Ethanol Source/Recovery Vessel	
Ethanol & Wax Waste Vessel	External
Winterized Oil Containment	

ATTRIBUTE	VALUE
Filter Housing	
Material	SS316
Seal Type	PTFE
Volume (GL)	5
Quantity	1
Filter Media Type 1	PFTE + Cellulose + Carbon Lenticular
Bypass Valves	Sanitary, Manual
Pressure Max/Min	
Pressure Transducer	Inlet, Outlet, Sanitary
Chilled Vessel	
Volume (GL, max)	13
Quantity	1
Max Pressure (psi)	20
Insulation	Vacuum Jacketed
Mixer	Shear Mixer
Solvent Ratio Control	Weigh Cells
Inlet Tubing Connection	Compression
Outlet Valve	Sanitary, Air Actuation
Outlet Pump	Gear Pump, SS316
Dilution Pump	Gear Pump, SS316
CIP	
Type	External
Connection	Sanitary
Type	Spray Ball
Drain, Manual	Lowpoint, Drain
Pump, Manual	Lowpoint, Drain

ATTRIBUTE	VALUE
Vessel to Filter	
Insulated 1.5"	
Sanitary Spool	
Falling Film	
Heat Exchnager	Tube, Shell
Falling Film Pump	Gear
Falling Film Condenser	Tube, Shell
Falling Film Valves, Outlet	Manual On/Off
Vacuum Pump	Recirculating
Controls & Methods	
Transmission (mAmp)	4-20
Recirculation Level Sensor	
Vessel 1	Vessel Level Sensor
Vessel 1	Pressure Sensor
Filtration	Pressure Sensor
Falling Film	Pressure Sensor
PLC-VFD Control of Pumps & Valves	
Density Sensor	
Classification	
Class	Ex d e m IIA Gc, II 2G IIB T4
Motors	Ex, ethanol
Z Purge	Ex, Yes, Air Connection Required
Sensors	Ex
HMI Panel	Ex
Certification	
ETL, UL 508A, CE, PED, NA	

LINE DRAWING



REQUIRED, SOLD SEPARATELY:

e-140 #10-0063 (240V) | #10-0099 (380V) OR
e-180 #10-0010 (240V) | #10-0147 (380V)
E2Di #10-0174 (240V) | #10-0175 (380V)
Interface Vessel #10-0199 (240V) | #10-0200 (380V)

ALSO AVAILABLE, SOLD SEPARATELY:

#80-9621 | Factory Acceptance Test
#80-9622 | Site Acceptance Test
#80-9636 | Design Qualification
#80-9611 | Installation Qualification
#80-9612 | Operational Qualification
#80-9608 | GMP Equip. Commissioning & Training
#80-9606 | GMP Equip. Documentation Package
#80-9609 | Maintenance Package (12months)

Configuration & specifications may change. Please
confer with your sales specialist for the latest version.

To Order: **Extraction to Winterization Skid #10-0195 (240V) | #10-0196 (380V)**

Recommended, Sold Separately:

Heater/Chiller, 1 zone: 6kW/10.2kW #80-4423 (240V) | #80-4424 (380V)

Chiller 2: 5hp, 35.2A #80-4018 (240V) | #40-4097 (380V)

Heater 2: 36kW, Recirculating Oil #80-4096 (240V, 380V)

CIP Unit #10-0197 (240V) | #10-0198 (380V)



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