

EXTRACTOR SOLUTIONS

ETHANOL

EXTRACTION TURN KEY SYSTEM



1
PPTD-50 30LBs/ Batch Centrifuge with custom solvent cycling /wash system
Siemens controller Diaphragm pump 30LB jacketed centrifuge

2
30 GPH OSN Organic Solvent Nanofiltration Provides Winterization, Solvent Recovery and Color remediation in an all in one skid 30GPH solvent recovery 90GPH color remediation + winterization

Our OSN systems are capable of recovering up to 30 Gallons of ethanol per hour. Our OSN systems will bring the ethanol content in a miscella down to ~5%. This system is also capable of running winterization and color remediation membranes. Our models OSN-15GPH and OSN-30GPH both include a second set of membrane housing to switch from color remediation to solvent recovery without the labor of swapping out the internal housings.



Ethanol Nanofiltration system OSN-30GPH



30LB Jacketed Centrifuge

Phone

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CONTACT US

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Address

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4 50L ROTARY EVAPORATOR

Unique sealing structure and selected sealing materials, strong corrosion resistance, can maintain a vacuum of -0.096MPa or more; High evaporation efficiency, high recovery rate. Modular serial design with strong scalability. Convenient assembly and disassembly, easy operation and convenient maintenance. Stainless steel (special plastic) chassis, column, vertical shaft, aluminum alloy assembly, beautiful appearance, corrosion resistance. Key seals, electronic components are imported parts. Designed to be ergonomic, Motor lifting stroke 100mm, manual assisted extension stroke 60mm. Upright double/triple serpentine condensing coil with a condensation area of ?? 0.15m² / 0.27m². Digital display of motor speed, speed range 10 - 180 rpm. High vacuum sealing degree and strong evaporation ability. Aluminum alloy lightweight body for easy laboratory movement.



5 MDS10CE WIPED FILM EVAPORATOR

See attachment for details

TURN-KEY SOLUTION

Our complete extraction solution is the perfect way to start your ethanol extraction lab. Included is a 30LB/ batch jacketed centrifuge, Organic solvent nanofiltration skid for solvent (recovery, winterization and dewaxing), solvent storage vessels, Rotary evaporator for final solvent recovery, Glass decarb reactor, Single stage Stainless steel wiped film evaporator.

ON-SITE CONSULTING

Need more than just equipment? Connect with our network of qualified consultant that can bring your new or existing business up to speed. Consultants are available for on-site consults and virtual consulting.

3 SOLVENT STORAGE AND FLUID TRANSFER VESSELS



EXTRACTION

Extraction is performed in a jacketed centrifuge. Low temperature extraction and proprietary methods ensure the lowest concentration of undesirables is extracted.

COLOR REMEDIATION, WINTERIZATION AND SOLVENT RECOVERY

Miscella is then ran through the OSN to remove color, fats and lipids. The miscella then passes again through the OSN to recover the bulk of the solvent. A Rotary Evaporator is used to recover the remaining solvent.

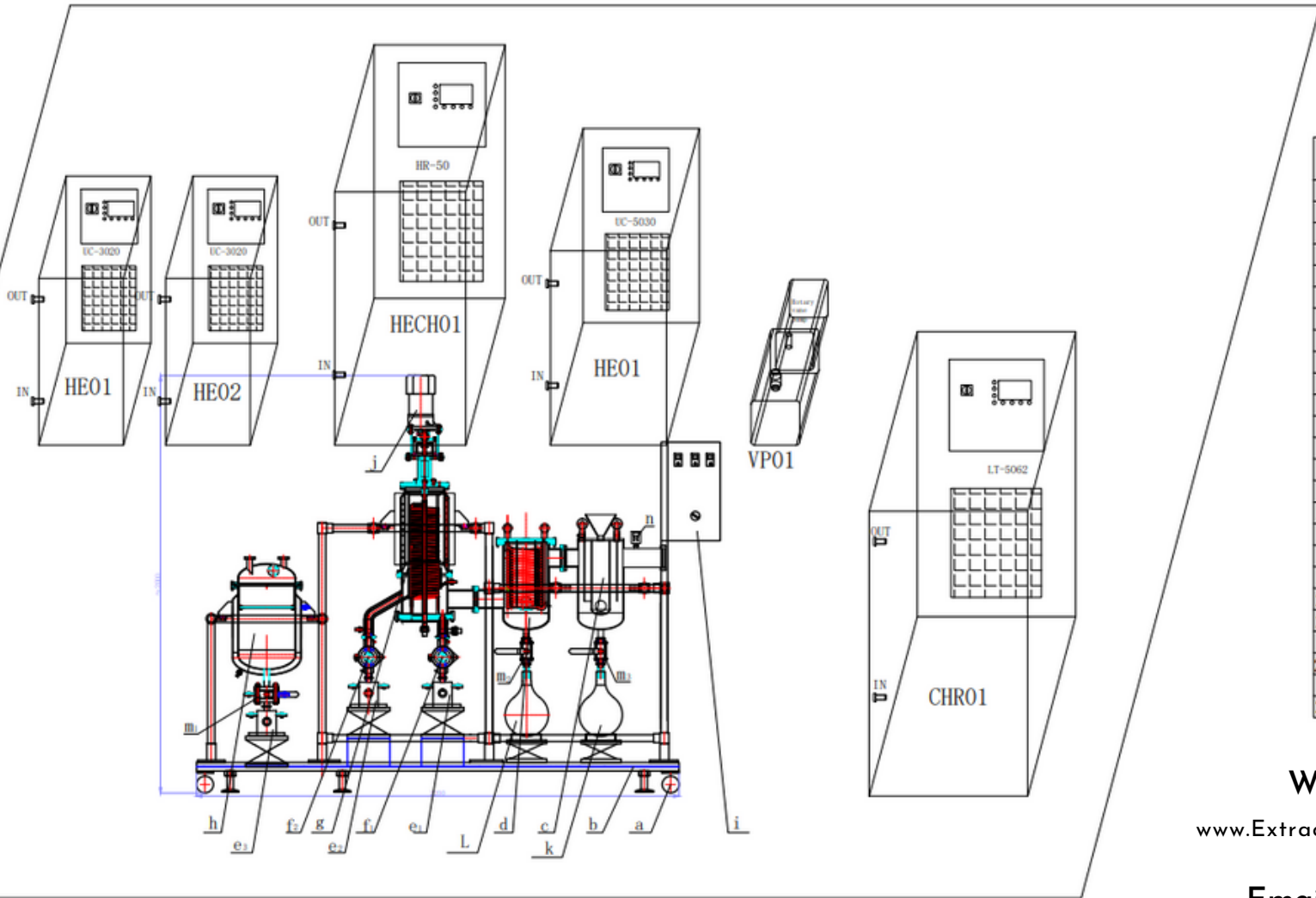
DECARBOXILIZATION / DISTILLATION

Oil is prepared in a decarb reactor before being distilled in a wiped film evaporator.



5

MDS10CE WIPED FILM EVAPORATOR



No.	Code	Name
1	a	Universal casters
2	b	Stainless steel frame
3	c	Dual use cold trap
4	d	Coil cold trap
5	e ₁	Gear pump
6	e ₂	Gear pump
7	e ₃	Gear pump
8	f ₁	Sight glass
9	f ₂	Sight glass
10	g	Main evaporation tower
11	h	Feed tank
12	i	Control box
13	j	Motor
14	k	Collect bottle
15	L	Collect bottle
16	m ₁	Ball valve
17	m ₂	Ball valve
18	m ₃	Ball valve
19	n	Vacuum meter
20	HEO1	Heater 200°C
21	HEO2	Heater 200°C
22	HECHO1	Heater&Chiller -25~200°C
23	HEO3	Heater 300°C
24	CHRO1	Chiller -45°C
25	VP01	Rotary vane vacuum pump

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