



## THE AET BE2R SYSTEM

The ABILITY ENGINEERING TECHNOLOGY BE2R, also read as "Bear", is a leading cryogenically-chilled ethanol botanical extractor. This all-in-one system integrates a centrifuge, color remediation filtration, and a falling film evaporator, handling up to 120 lbs/Hr. of biomass. Combining three traditionally manual steps into one automated process, the Bear boasts a compact design and offers a superior Total Cost of Ownership compared to its competitors. Harness the power of cryogenics in your process today.

### FOOTPRINT

- 120"(3M) Wide x 60"(1.5M) Dp x 120" (3M) Ht Clearance

### ELECTRICAL REQUIREMENTS

- 480VAC or 240VAC 3PH

### CAPACITY / PERFORMANCE

- Cooling: -40°F(-40C) at 17KW
- Extraction: 40 lbs(18kg) biomass / 35 gal(132L) ethanol
- Batch time: 20 mins
- 98+% botanical extraction efficiency
- 98+% solvent recovery from biomass
- 98+% solvent recovery from oil

### SPECIFICATIONS

#### CENTRIFUGE

- 1561 RPM,900G centrifugal extractor
- Positive pressure food grade shaft seal with barrier tank onboard
- Multi-function jacketed basin
- Pneumatically operated lid and lid closures
- Operational Footprint: 55" (1.5M) x 32" (0.8M) x 40" (1M)



### FILTRATION, COLOR REMEDIATION AND SOLVENT RECOVERY

- Pre-filtration
- Micron level particulate removal
- Color remediation
- Final stage particulate filtration
- Sight glass for visual verification between stages
- FFE Efficiency: 98%
- FFE Recovery Rate: 60 GPH (340LPH)
- FFE Operational Temperature: 200°F to 210°F (93-99C)
- Operational Footprint: 34" (1M) x 60" (1.5M) x 90" (2.25M) Skid

### FEATURES

- Fully automated and recipe driven
- Interior Finish - Solvent-Wet Areas Ra72 or better
- Sanitary Tri-Clamp process connections
- Ethernet (IoT Compatibility)
- Engineered and Made in the USA

### ANCILLARY EQUIPMENT

THE FOLLOWING EQUIPMENT IS SELECTED BASED ON SITE CONDITIONS, AND NECESSARY TO OPERATE THE SYSTEM

- Ethanol Chiller
- Water Heater and Pump
- Water Chiller(Cooling Tower) and Pump

FOR MORE, PLEASE VISIT [WWW.ABILITYENGINEERING.COM/BOTANICALS](http://WWW.ABILITYENGINEERING.COM/BOTANICALS)