

from Bodine Electric Company

Molecular Distillation Equipment for the Cannabis Industry.



application insights

The Design Requirements

A cannabinoid distillation system for the growing CBD industry required precise process control.

The Solution

- Type 42R-FX Parallel Shaft AC 3-Phase Inverter Duty Gearmotors
- Available with 230VAC or 230/460VAC windings
- Torque Range: 58 to 270 lb-in
- Speed Range: 57 to 340 rpm

Chemical Processing / Distillation Equipment

A manufacturer of CBD distillation equipment required a drive system to precisely control the flow and speed of liquid material through their new distillation apparatus

The Result:

Working with an authorized Bodine distributor and our sales team, the manufacturer selected several of our variable speed AC inverter duty gearmotors, combined with inverter drives (VFDs) and a PLC control to drive the pumps and stirring mechanism within the distillation system. Earlier versions of the equipment used a competitor's brush-type DC motor and control system. By replacing them with Bodine AC inverter-duty gearmotors, the manufacturer eliminated both brush maintenance and the noise associated with brushed DC motors.

- Stock/standard 42R-FX AC inverter duty gearmotors
- Eliminated brush maintenance reducing machine downtime
- Lowered operational noise

Bodine brings over 115 years of problem solving experience to a wide range of applications in industries as diverse as energy production, medical, packaging, industrial automation, and solar powered outdoors equipment. We look forward to working with you on your next fractional-horsepower gearmotor design challenge.



**Stock / Standard 42R-FX Series
Parallel Shaft AC 3-Phase
Inverter Duty Gearmotor**

[\(click here for more info\)](#)

**C1D1 and C1D2 AC inverter-duty and
fixed speed models now available.**