

# V-14-7.5 and V-14-10

## V-Series Single Shaft High Speed Dissolver

MorehouseCowles V-series standard designs deliver the ultimate dispersion, de-agglomeration and dissolving technology. Its reliable, versatile, and economical design is built for decades of dependable operation. With standard safety features, these dissolvers are designed to help prevent injury without sacrificing performance and reliability.



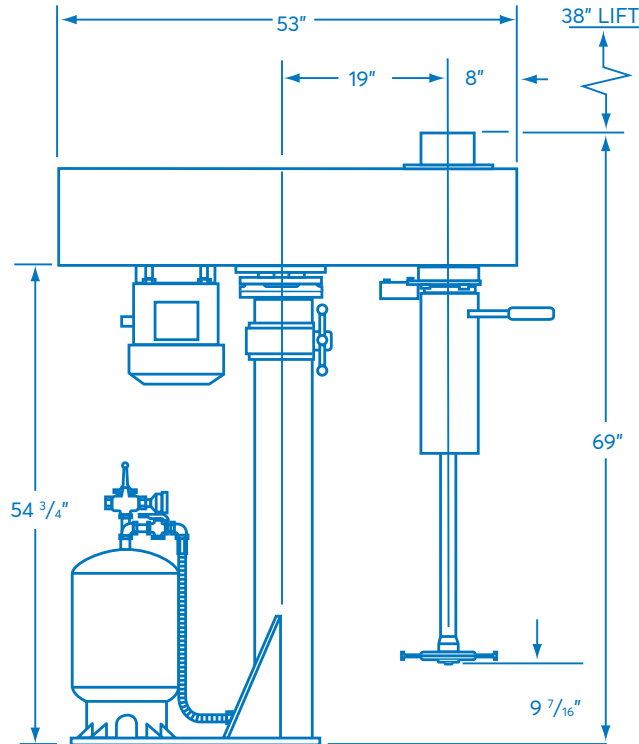
Shaft guard limit switch



Hydraulic lift limit switch

<b>CAPACITY:</b>	- 35 to 55 gallon batches
<b>MATERIAL VISCOSITY:</b>	- Up to 50,000 cP
<b>MOTOR:</b>	- 7.5 hp or 10 hp - 1800 RPM, 230/460 volt, 60 Hz, 3 phase - TEFC Class I, Division 1, Group D (explosion proof) - Inverter duty motor 4:1 ratio - Premium efficiency
<b>LIFT:</b>	- Air-over-oil operated lift - 38" stroke, heavy-duty industrial cylinder - ASME reservoir
<b>DRIVE:</b>	- V-belt and sheave - Variable speed via Variable Frequency Drive (VFD/inverter)
<b>SHAFT:</b>	- 303 stainless steel
<b>SPEED RANGE:</b>	- 2300 RPM (4820 FPM) at 60 Hz approx.
<b>IMPELLER BLADE:</b>	- 8" diameter genuine Cowles high-shear - 304 stainless steel

<b>INSTRUMENTATION:</b>	- Digital tachometer in NEMA 7 (explosion proof) housing
<b>UTILITIES REQUIRED:</b>	- Electrical power 3 phase - Clean, dry, compressed air at 100 psi/g
<b>SPECIAL FEATURES:</b>	- Energy efficient - Variable speed - 270° rotation to service multiple tanks - Designed for easy, less costly maintenance
<b>SAFETY FEATURES:</b>	- Tank holder with limit switch – will not run if tank is not in place - Lift height limit switch – will not run if unit is raised above 12" - Shaft guard limit switch with clamp design for easy cleaning – will not run if guard is not closed - Drive guard – covers belts and pulley
<b>CONSTRUCTION:</b>	- 303/304 stainless steel, all wetted parts - Non-wetted parts: carbon steel painted with white two-part epoxy



## OPTIONAL UPGRADES:

### LIFT

1. Custom lift height and stroke
2. Electric, hydraulic lift in lieu of air-over-oil system
3. Platform-bearing on lift assembly: allows the operator to manually rotate the mixing shaft side-to-side with very little force
4. Pneumatic power-driven rotator: allows the unit to rotate between two tanks remotely using a joystick control

### DRIVE

1. Variable Frequency Drive (VFD/ Inverter), NEMA 1 (non-explosion proof, for non-hazardous areas)
2. Operator Basic Pendant Remote Control, NEMA 7 (explosion proof) includes:
  - On/Off button
  - Red Mushroom Stop button
  - Potentiometer for speed control
3. Operator Master Control Remote Control, NEMA 7 (explosion proof) includes:
  - On/Off button
  - Red Mushroom Stop button
  - Potentiometer for speed control
  - Digital ammeter
  - Digital tachometer
4. Drive Cabinet, NEMA 12 (dust proof) for protection against environment and easy installation of inverter

### SPEED

1. Custom speed range for various dissolving applications

### IMPELLER BLADE

1. POLY-PELLER™ blade in lieu of high-shear blade – no additional cost
2. Full line of specialty impeller blades

### CONSTRUCTION

1. 316L stainless steel wetted parts
2. All stainless steel

### LID

1. Spring loaded tank dust cover (lid) with bellows. Dust cover to be raised when the unit is lifted and compressed on tank rim when the unit is lowered.

Made in the USA

For more information, visit [morehousecowles.com](http://morehousecowles.com) or contact MorehouseCowles experts today at [sales@morehousecowles.com](mailto:sales@morehousecowles.com) or +1 (909) 627 7222.