

# ADMIX LiquiShear™

Integrated powder feed and high-speed blending systems  
for dairy, beverage and processed foods



## The "unconventional" liquid/solids processor

Admix, a leader in high and low shear sanitary mixing and powder induction since 1989, introduces a new concept for specifying, updating or replacing conventional liqui-processors. The Admix LiquiShear provides the processing power of a bottom entry high-speed blender, with an optional integrated powder induction system to feed powders, solids, and semi-solids into the blender. On it's own, the basic Admix LiquiShear blending module is a heavier duty, higher quality, and more powerful blender than any other unit available...utilizing a low maintenance double mechanical seal, a removable manway dump grid, a combination filter and vent, and a CIP spray ball... all standard.

### What the ADMIX LiquiShear™ does!

The Admix LiquiShear will incorporate most dry solids or powders into liquids for blending, dispersing, dissolving, de-agglomerating, reconstituting, rehydrating, reworking and chopping in 3 to 5 minutes. Heating and cooling the mixture is possible with an optional insulated jacket. A heavy duty, unique design high flow/high shear impeller provides excellent product circulation, suspension and particle size reduction. The optional integrated powder induction and conveying (PIC) module insures 100% utilization and activation of all ingredients.

### When should you specify the ADMIX LiquiShear™ ?

#### Small batches -

- Where a bottom entry shear mixer allows for processing of very small batches to full production runs.

#### Large solids -

- Where a bottom entry shear mixer allows for processing solid blocks of materials such as butter, cheese, frozen products, etc.

#### Blending to chopping -

- Where a bottom entry shear mixer allows for performing multiple mixing operations from simple blending to cutting, chopping and maceration of large particles.

#### Low head room issues -

- Where a bottom entry mixer resolves head room or tank top issues that do not allow room for a top entry mixer.

#### Upgrade existing liqui-processors -

- When replacing an existing bottom entry liqui-processor with a lower maintenance, lower horsepower and easier to service design is needed.

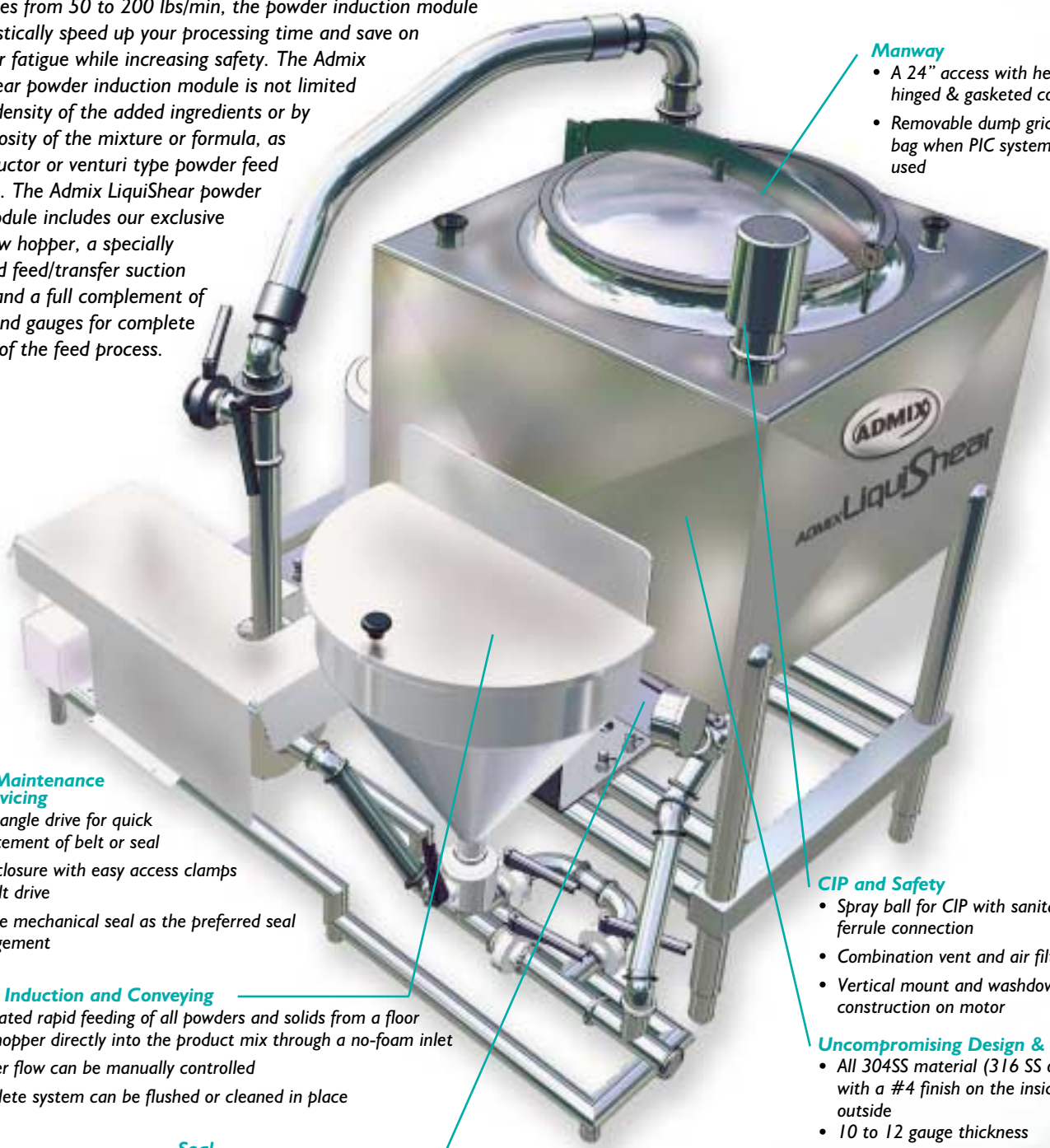
#### Ergonomic powder feeding -

- With our engineered and integrated powder feed and induction module.



## The benefits of bottom entry blending with easier, faster powder feed and increased operator safety

The powder induction module adds the convenience and ergonomic benefits of adding powders and other solids within a floor level hopper to transfer ingredients into the Admix LiquiShear blender. With powder feed rates from 50 to 200 lbs/min, the powder induction module will drastically speed up your processing time and save on operator fatigue while increasing safety. The Admix LiquiShear powder induction module is not limited by the density of the added ingredients or by the viscosity of the mixture or formula, as with eductor or venturi type powder feed systems. The Admix LiquiShear powder feed module includes our exclusive easy flow hopper, a specially designed feed/transfer suction pump, and a full complement of valves and gauges for complete control of the feed process.



### Manway

- A 24" access with heavy duty hinged & gasketed cover
- Removable dump grid to rest bag when PIC system is not used

### Easier Maintenance and Servicing

- Right angle drive for quick replacement of belt or seal
- SS enclosure with easy access clamps for belt drive
- Double mechanical seal as the preferred seal arrangement

### Powder Induction and Conveying

- Integrated rapid feeding of all powders and solids from a floor level hopper directly into the product mix through a no-foam inlet
- Powder flow can be manually controlled
- Complete system can be flushed or cleaned in place

### Seal

- Double mechanical seal with water flush is the recommended standard
- Process flush and single mechanical seals are also available

### CIP and Safety

- Spray ball for CIP with sanitary ferrule connection
- Combination vent and air filter
- Vertical mount and washdown construction on motor

### Uncompromising Design & Finish

- All 304SS material (316 SS optional) with a #4 finish on the inside **and** outside
- 10 to 12 gauge thickness
- All welds polished to a 150-grit finish
- Square tank design eliminates baffles

# ADMIX LiquiShear™

Six (6) standard models to meet all of your production needs from 50 to 500 gallons. Detailed specifications available from your local sales engineer listed below and from the factory.

LiquiShear Model	Capacity (U.S. Gals)	Motor HP	Impeller Size	Std Footprint (L x W x H)	Approx. Weight
LS-50	50	10	7.5"	52"x 25"x 55"	1000 lbs
LS-100	100	15	10"	61"x 35"x 58"	1100 lbs
LS-200	200	25	12"	67"x 40"x 71"	1250 lbs
LS-300	300	30	12"-13"	76"x 48"x 73"	1650 lbs
LS-400	400	40	12"-14"	82"x 54"x 76"	1850 lbs
LS-500	500	50	12"-15"	82"x 54"x 88"	2100 lbs

Improve your processing needs with

## ADMIX LiquiShear™

- Dispersion of gums such as xanthan and guar
- Rapid reconstitution of milk powder
- Sauces and salad dressings
- Ice cream stabilizers and rerun
- Fillings, icings, jellies and jams
- Frozen products
- Cheese slurries and blocks
- Confections and cocoa powder
- Flavor emulsions
- Juice concentrates and additives
- Syrups, sugars and sweeteners
- Carrageenan and maltodextrin
- Pectin and gelatin
- CMC, HPMC and other cellulose gums
- Soft drinks
- Whole and powdered eggs
- Tomato paste, salsa, sauces and soups
- Vitamin emulsions and slurries

### Powder Induction and Conveying (PIC) Module

Our powder induction and conveying module for convenient, fast and ergonomic "vacuum" feeding of powders and solids comes in 2 sizes ranging from 30 to 200 lbs. per minute. Detailed specifications available from your local sales engineer listed below and from the factory.

Model	Liquid Capacity	Powder Capacity	Pump HP
PIC-100	up to 70 GPM	up to 100 lbs/min	10
PIC-150	up to 150 GPM	up to 200 lbs/min	15

234 Abby Road  
Manchester, NH 03103

603-627-2340  
FAX: 603-627-2019  
**1-800-466-2369**  
[www.admix.com](http://www.admix.com)

e-mail:  
[mixing@admixon.com](mailto:mixing@admixon.com)



*Advanced Mixing Technologies*