



# AVURE<sup>®</sup> HPP

## **AV-20M, 30M, and 40M**

Expandable HPP Machine



Expand Your HPP Capacity on Demand.

# Expand your HPP capacity on demand

## AV-20M, 30M and 40M

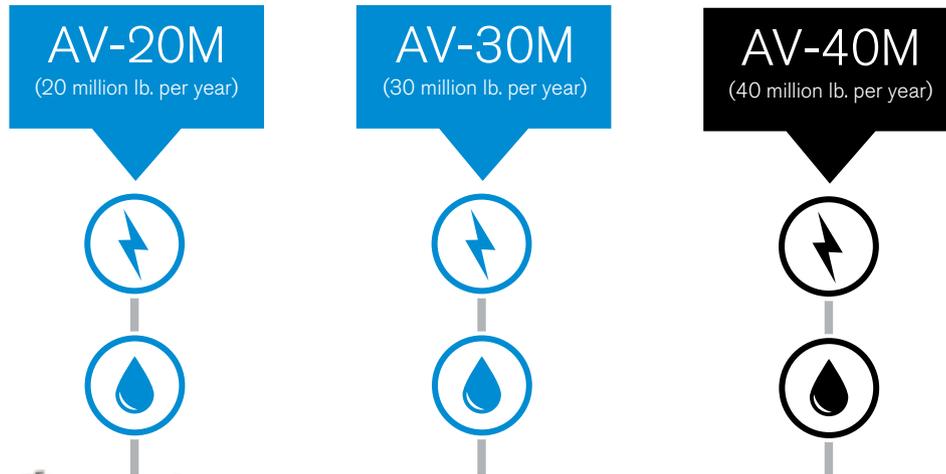
Projecting production volume and choosing the right machine size is a big decision. Go small, and you may need to purchase another machine much sooner than you thought. Go big, and you might be stuck with too much capacity. But the AV-M right-sizes you within your factory and your growth projections.



## Topline features

- Easily upgrade from AV-20M to 40M
- Cut energy costs by 50%
- Highest possible throughput
- Lower maintenance costs
- Advanced cylinder design for longest life
- Engineered to lower operating costs
- Reliable performance and profits
- Work with the company that started it all

As your sales and production grow, you'll simply add intensifiers and electrical panels to expand to 20, 30 and 40 million lbs of output respectively.



## Highest possible throughput

Avure builds the industry's largest diameter pressure vessels, which pump pure water and deliver more product on every cycle.

## Engineered to lower operating costs

Avure's experience in specialized metals and engineering lowers maintenance costs and minimizes costly downtime.

## Easy upgrade

Over a long weekend, Avure's AV-20M will scale to a 30M, 40M. You'll purchase upgrade equipment along the way, but you won't need to invest in a new machine.

## Cut energy costs by 50%

Improved design and technology allows the AV-M series to reduce electricity costs by up to 50%. You may save enough to upgrade to the next level of machine.

## Rapid cycling

Avure has finessed vessel pressurization and decompression to offer the world's highest performance.

## Reliable performance and profits

The AV-M machines work longer, harder, and produce more product per cycle than any other machine, which results in a superior bottom line.

## Work with the company that started it all

Avure has pioneered and developed HPP for more than 30 years. The majority of HPP foods and beverages are produced on our equipment. We are the HPP experts.

## Expand your knowledge

Contact Avure to learn more about AV-40M, and how it applies to your situation and application.

# JBT Avure AV-20M, 30M and 40M Specifications

	AV-20M	AV-30M	AV-40M
Number of high pressure pump skids (K22A)	0.5	1	2
Number of high pressure intensifiers	2	4	8
Standardized Annual Capacity 1-minute hold time	12,000,000 kg 26,500,000 lbs	19,000,000 kg 42,000,000 lbs	26,800,000 kg 59,100,000 lbs
Standardized Annual Capacity 3-minute hold time	10,000,000 kg 22,000,000 lbs	14,200,000 kg 31,400,000 lbs	18,100,000 kg 39,900,000 lbs
Standardized Hourly Capacity 1-minute hold time	1,500 kg 3,400 lbs	2,400 kg 5,400 lbs	3,400 kg 7,600 lbs
Standardized Hourly Capacity 3-minute hold time	1,300 kg 2,800 lbs	1,800 kg 4,000 lbs	2,300 kg 5,100 lbs
Number of cycles/hour 3-minute hold time (50/60 Hz)	5.4	7.7	9.8

Utility Requirements			
Process Water Cooling	220 L/min (58 gal/min)		
Power Supply (3ph. / 480V / 60 Hz)	160 kVA 190 A 150 kW	310 kVA 370 A 290 kW	600 kVA 720 A 570 kW
Power Supply (3ph. / 400V / 50 Hz)	160 kVA 220 A 150 kW	290 kVA 420 A 280 kW	580 kVA 830 A 550 kW
Air Supply	7 bar and 100 L/min (102 psi and 3.5 cu ft/min)		

Pressure Vessel Data	
Diameter	< 15.2", 386 mm >
Internal Length	< 118.9", 3020 mm >
Vessel Volume	< 92.5 U.S. gallons, 350 L >
Wire Length	< 172 miles (277 km) >
Wire Wound Frame	< 79.2 miles (127 km) >
Total Machine Weight	< 101,000 lbs (46,000 kg) >
Recommended Input Water	< 39° - 84° F (4° - 29° C) >
Cycle Data Documentation	SCADA PC-based control system records operator, time, lot, batch, pressure, temperature, faults, and all other key parameters during cycles for validation and product safety
Design and Manufacturing Certifications	Designed, manufactured and tested according to ASME Boiler & Pressure Vessel Code, Section VIII, Division 3 and the European Pressure Equipment Directive 2014/68/EU. Other safety requirements expressed in relevant Directives and Standards are also met.

## COUNT ON JBT TO HELP PROTECT YOUR INVESTMENT

JBT's greatest value in PRoCARE® services comes from preventing unexpected costs through smart, purposeful, and timely maintenance based on unmatched knowledge and expertise. PRoCARE service packages are offered as a maintenance agreement in various service levels, depending on your production and cost management requirements.



## JBT LIQUID FOODS

FRESH PRODUCE TECHNOLOGIES | FRESH-CUT, ROBOTICS, STEAMING | FRUIT AND VEGETABLE PROCESSING | SECONDARY PROCESSING | ASEPTIC SYSTEMS | FILLING AND CLOSING | IN-CONTAINER STERILIZING | TRAY SEALING | HIGH-PRESSURE PROCESSING | POWDER PROCESSING | TUNA PROCESSING

### OUR BRANDS



## JBT PROTEIN PROCESSING

### SECONDARY

BRINE PREPARATION | HOMOGENIZATION | INJECTION  
INJECTION & RETURN MILLING | MACERATION | MASSAGING  
TENDERIZATION | TVI MEAT SLICING | AUTOMATED TRAY LOADING

### FURTHER

WEIGHING | PORTIONING/TRIMMING | COATING | FRYING & FILTRATION | PROOFING  
COOKING | COOLING | CHILLING | FREEZING | REFRIGERATION | CLIPPING & PACKAGING  
SOLUTIONS | X-RAY TECHNOLOGY | TRAY SEALING | HIGH-PRESSURE PROCESSING

### OUR BRANDS



### ALSO REPRESENTING



### North America

AVURE Technologies  
1830 Airport Exchange Blvd. Suite 160  
Erlanger, KY USA 41018  
Phone: +1.513.433.2500  
avureinfo@jbt.com



We're with you, right down the line.™

hello@jbt.com | avure-hpp-foods.com | jbt.com