

## VACCINATION TECHNOLOGIES & SERVICES

**INNOVATION  
APPLIED™**

**FLODRAULIC has resources from:**

- Globally recognized manufacturers of fittings, connector, and cylinders.
- Advanced Technology.
- Team of Engineers.
- Experienced technicians in the Poultry Industry.

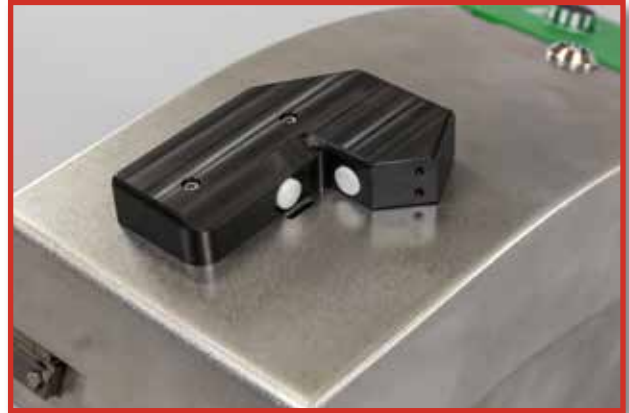


## HATCHERY

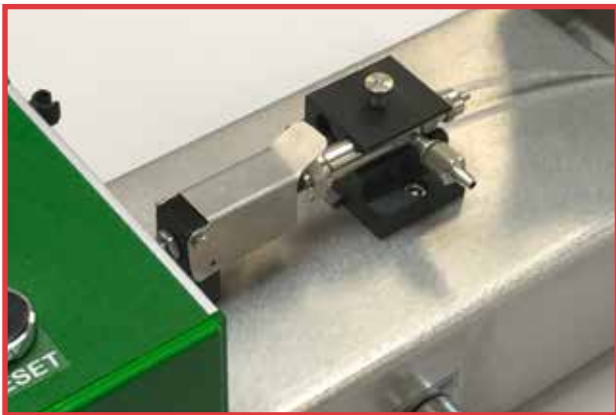
### ZOOTECH SINGLE & DOUBLE II

The Zootec vaccinator is for subcutaneous administration of water or oil based vaccines in chicks at day one of age.

- One or two vaccines through one needle.
- Simple design.
- Quiet operation.
- Delivers 0.1 - 0.5 ml depending on syringe; other volumes available upon request.
- Up to 3,000 chicks per hour.
- All pneumatic.
- Stainless steel lid and body.
- Improved Twin Touch Plate for accurate injection.



*Next Generation Twin Touch Plate*



*Zootec Single syringe*



*Zootec Double II syringes*

## HATCHERY

### **SPRA-VAC**

The Spra-Vac is a coarse spray applicator designed for mass vaccination of day old chicks in the hatchery.

- Up to 40,000 to 60,000 chicks per hour.
- Available in 14" (.36 m) or 18" (.46 m) hood, 2 or 4 nozzles.
- Available in stand-alone Table, Freestanding and Hood only models.
- Fixed or multiple dose delivery systems.
- Stainless steel syringe or plastic disposable syringe are available.
- Simple operation and minimal maintenance.
- All pneumatic.



## HATCHERY

### **SPRA-VAC II**

The Spra-Vac II is a new generation stand-alone table sprayer designed to make the mass vaccination of day old chicks in the hatchery easy and simple.

- Volumetric pump and improved check valve.
- Adjustable volume range.
- All pneumatic.
- Up to 40,000 chicks per hour.
- Coarse droplet size.
- Auto cleaning cycle.
- Adjustable side rails to fit all types of chick box sizes.



### **SPRA-VAC LINE**

The Spra-Vac Line has been retired from the Flodraulic equipment portfolio, but the spare parts will be available throughout life cycle of the sprayer.

## HATCHERY

### **SPRA-VAC FLEX**

The Spra-Vac Flex is a sprayer designed to mass vaccinate day old chicks in the hatchery that are processed when using a conveyor. It is available in two options:

#### **CIRCULATING PUMP WITH TRANSLUCENT PLASTIC CONTAINERS**

- Up to 4 individual vaccine applications per unit.
- Droplet range 120 to 150 microns.
- 100-240 VAC, 50-60 Hz.
- Hydraulic pressure setting with no compressed air requirement.
- 610 mm x 1219 mm x 1829 mm, 2 ft x 4 ft x 6 ft.



#### **PRESSURIZED STAINLESS STEEL CONTAINERS**

- Up to 4 individual vaccine applications per unit.
- Droplet range 120 to 150 microns.
- 100-240 VAC, 50-60 Hz.
- 2.4- 2.8 bars, 35-41 PSI compressed air requirement.
- 610 mm x 1219 mm x 1829 mm, 2 ft x 4 ft x 6 ft.



## FIELD

### FIELD SPRA-VAC

The Field Spra-Vac is a backpack sprayer designed to make the administration of live vaccines to day old chicks easier and more efficient in small hatcheries or on the farm.

- Up to 75,000 birds an hour.
- Pre-set dose or continuous spray option.
- Electric pump provides thumb tip control of spray volume.
- Reduces stress on the hand or arm of the operator.
- Battery Powered.



### ULVAVAC

The UlvaVac is a hand-held sprayer used to mass vaccinate birds housed on the floor and in cages. Uses a fan to disperse the vaccine into the air.

- Lightweight design.
- Consistent droplet range of spray particles.
- Uniform vaccination.
- Battery powered.
- Up to 20 minutes for one house depending on the nozzle.



## FIELD

### **SOLOVAC III**

The SoloVac III is a backpack sprayer designed to mass vaccinate birds housed on the floor.

- The spray vaccinator complete includes two LiFePO4 Lithium batteries and one HTRC P30 charger.
- Single operator.
- 6 minutes to spray one house.
- 20 liters / 5-gallon tank capacity.
- Coarse spray.
- 6.8 m, 22 ft. spray distance per gun.



### **LIFEPRO4 LITHIUM BATTERY**

The LifePro4 Lithium battery replaces the Lead Acid battery.

- Lightweight: 5.95 lbs. (6.1 lbs. or 2.8kg reduction).
- Runtime approx. 50min with no pressure drop shut off.
- 30minute effective runtime gain.
- 8-9 houses of 33,000 birds per charge.
- 198,000 bird per charge gain.
- Lifespan 5,000 cycles (4,500 cycle gain).
- Visual charge status indicator.
- LiFePO4 (single charge) (multiple charge)



**FIELD**

**SPRAYCART DUAL**

The SprayCart Dual is designed to make the vaccination of caged birds (layers and broilers) accurate and easy.

- Up to 100,000 birds an hour.
- 12 gallon/ 50 liter tank.
- Two folding vertical spray mast.
- Total of 12 adjustable nozzles (6 per mast).
- Specific nozzle for broilers housed in cages.
- Sturdy wheels for easy steering.
- Improved delivery system.
- Battery powered.



**LAYER SPRAYPAC**

The Layer SprayPac is a backpack sprayer that is equipped with a hand-held spray mast. This unique design allows the operator more freedom when vaccinating layers.

- Up to 10,000 birds.
- Up to 4 cage tiers can be vaccinated in a single pass.
- 2.5 gallon/ 10 liter tank.
- Equipped with an arm rest to help reduce stress on hand and arm of the operator.
- Battery powered.



## FIELD

### **EZ JECT PNEUMATIC SYRINGE (COMING SOON!)**

The EZ Ject Pneumatic Syringe is a field syringe that allows for the injection of inactivated vaccines by intramuscular route of injection.

- Delivers two vaccines through two separate needles.
- Delivers two vaccines through one needle using a bridge.
- Fixed dose.
- All dose volumes up to 6 ml are available.
- Lightweight and ergonomic.



### **PULLET SYRINGE**

The Pullet Syringe is a disposable, fixed-dose syringe assembly designed for use in the field or in the hatchery.

- A washable, reusable handle.
- Pre-set dose handles: 0.2 ml, 0.25 ml, 0.3 ml, 0.5 ml and 1.0 ml.
- Simple cleanup procedures.
- Uses a disposable syringe pack.



### **STEREO PULLET SYRINGE**

The specially designed handle of the Stereo Pullet Syringe allows simultaneous injection of different vaccines or dosages.

- The handle is available in any combination of 0.3 ml and 0.5 ml dosage settings.
- Easy cleanup procedures.
- Uses a disposable syringe pack.



## FIELD

### **SOCOREX SINGLE & DOUBLE SYRINGES**

The Socorex is a variable dosage, reusable syringe designed for administering both inactivated and live injectable vaccines.

- Quick dose adjustable.
- Delivers a consistent dose.
- Easy cleanup procedures.



### **POX SYRINGE**

The double needle delivery method on the Pox Syringe provides a safe, easy and effective way to deliver pox vaccines.

- Delivers a consistent dose.
- The 5 ml vaccine barrel helps to eliminate vaccine waste.
- A clean way to delivery to the wing web.



### **SINGLE SYRINGE**

The Single Syringe provides a perfect application for inactivated vaccines in the field.

- Interchangeable piston allows for easy dose adjustment.
- Delivers an accurate dose.
- Easy clean up.
- Nickel-plated syringe.



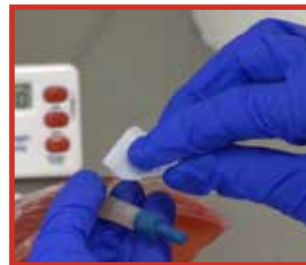
## ACCESSORIES

Flodraulic offers a wide range of accessories which complements its extensive line of vaccination equipment. Available accessories include:

- Thermal Bath for Frozen Vaccines
- Alcohol Swabs
- Needles in a Variety of Gauges and Lengths
- Disposable Syringes for Mixing Vaccines
- Drip Chambers
- Latex Tubing
- Ampule Holders
- Silicone Tubing
- Ampule Breakers

For maximum performance of equipment using compressed air, Flodraulic offers a complete filtration system that separates particles, oil mist concentration, and water from the air. The system is available in three sizes:

- 1/4"
- 3/8"
- 1/2"



All of the equipment shown has been engineered and validated by Boehringer Ingelheim, or in partnership with Boehringer Ingelheim, and therefore is suitable for the exclusive use of Boehringer Ingelheim avian vaccines.

For more information on the Flodraulic complete portfolio of equipment, please contact Flodraulic directly or a Boehringer Ingelheim representative.



***FLODRAULIC***  
***POULTRY DIVISION***

FOR MORE INFORMATION OR TO PLACE AN ORDER PLEASE EMAIL:

***VTSORDERS@FLODRAULICGROUP.COM***

***www.flodraulic.com***