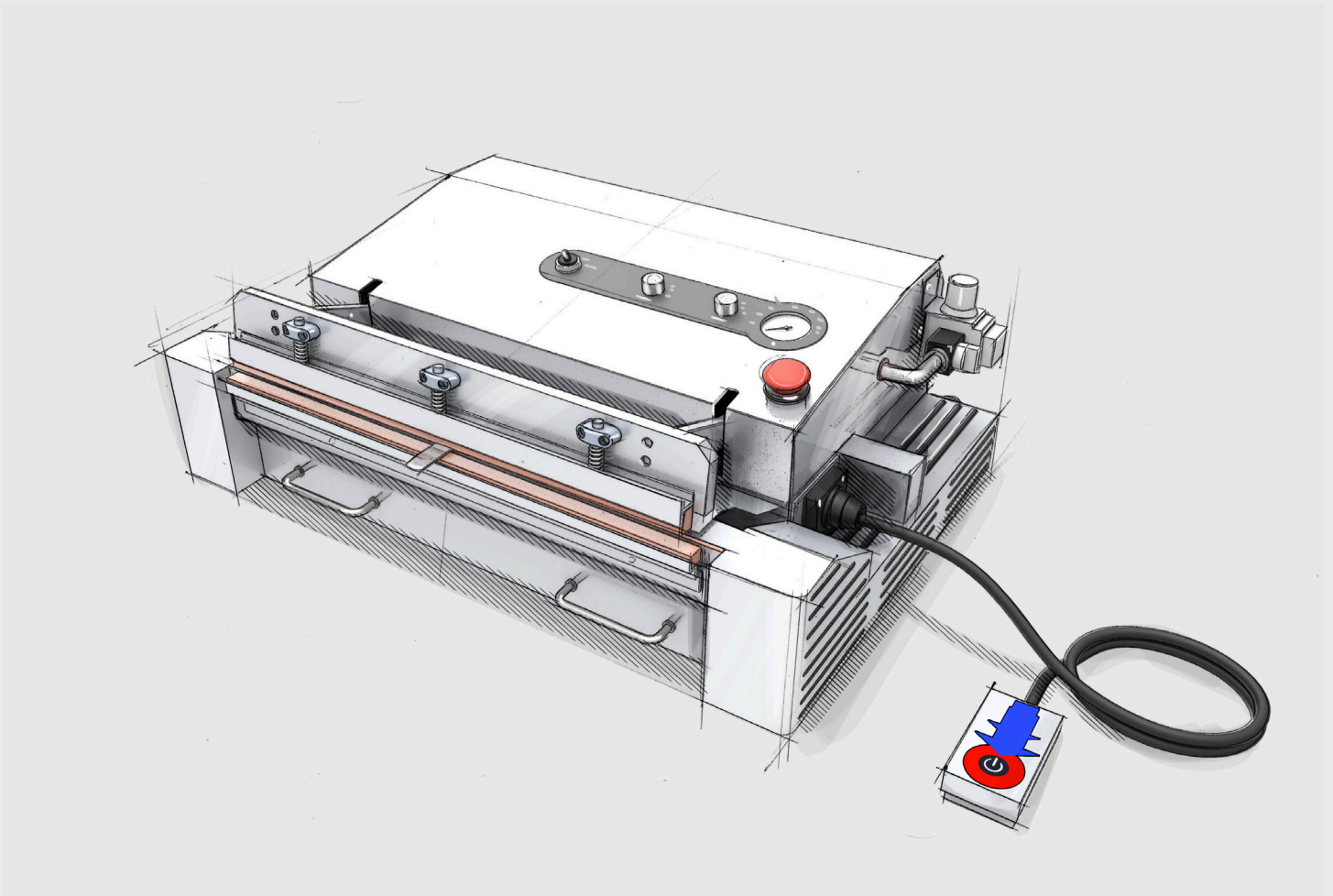


VAN DER STÄHL SCIENTIFIC

# VACUUM STEAMSEALER

## EPV-610 SPECIFICATIONS

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## EPV 610

### ABOUT

If you are packaging products in a flammable or particulate rich environment than you understand the risk of ignition sources caused by industrial machinery. With the patent pending air powered PLC developed by Fuji Impulse there is no longer a need for electricity for program functions or for the sealing platen heat source. Safe and powerful the EPV series sealers are the perfect choice for hazardous environment packaging. We invite you to learn more about the EPV-610 steam powered pouch sealer, call and speak with an application engineer now 800-550-3854. Let us test your pouches in our ISO/IEC 17025 accredited laboratory. We are here to support; call us today toll free at 800-550-3854



# EPV 610 STEAMSEALER

## 2. Machine specifications

### 2-1. Explosion proof specifications

Explosion proof construction	Not applicable for classification of explosion proof construction. Electrical parts are not used.
Available hazardous area	Division 1, Division 2 (Sealer only)
Ignitability	G2 (Ignition point 300 ~ 450°C)

### 2-2. Power specifications Electric source is not required

### 2-2. Seal specifications

Effective seal length	610mm ( 24" )
Seal width※	8mm ( 0.31" )
Seal method	Steam Impulse / Single, lower side heating

※NOTE The seal width here refers to the width of the sealing pipe that is used in the device and does not necessarily correspond to the actual, finished seal dimension on the bag.

### 2-3. Other machine specifications

Control method	Air sequencer	
Drive system	Air cylinder	
Air source	External air required (Please prepare the air source at customer's facility.) Compatible compressor 0.75kw(75L/min) or greater Air pressure setting value: 0.5MPa	
Piping	Air supply line: Mail hose tail O.D 8mm Saturated vapor supply line: R 1/2" (1/2" NPT) Drain exhaust line: R 1/2" (1/2" NPT)	
Supply steam pressure	0.8MPa (114psi) *It can be used under that pressure, but the sealing temperature goes down. At that case we need to have a meeting.	
Steam flow	Over 10kg/h (22 lb/h)	
Exhaust	Operated air is exhausted inside of the sealer. Vapor and cooling air is exhausted from the drain exhaust line.	
Machine dimension	Refer the attached external view.	
Housing	Exposed metal plates Exposed aluminum Cock / Coupler	SUS304, buff finish #400 White anodized finish Stainless steel, brass, plating processing

### 3. Operational Specifications

#### 3-1. Work method Seal only

#### 3-2. Setting items

Heating temperature setting range	120 ~ 175°C ( 0.1MPa – 0.8MPa) (Corresponding value from the amount of saturated water vapor)※
Heating time setting range	About 1 ~ 20 seconds
Cooling time setting range	About 3 seconds (fixed)

※NOTE Heating temperature depends on the pressure of supplied saturated vapor.  
Temperature is not adjustable. It is not possible to set the seal temperature on the machine.

### 4. Safety features

Pressurizing at seal	The seal lever uses spring action to clamp down on the bag so that no forcible pressure is applied when finger or other foreign object get caught. Pressure of 63-diameter cylinder output force is applied when sealing.
Emergency Reset Mechanism:	When the lever is being lowered, removing foot from the footswitch will raise the lever from its lowered position.

### 5. Accessories

Consumable parts	Antistatic glass tape (38mmx10m)	1 roll
Accompanying paper	Operating instructions	1 piece

### 6. Requirements for installing the machine

(1) Please set the following equipments and piping around the interface area for steam line.

1. Regulator	Adjust the pressure of supplying saturated vapor to the sealer.
2. Pressure gauge	Required for checking the pressure of saturated vapor at the interface point.
3. Steam trap	Required to remove drained water.
4. Vapor supply valve	Stop vapor supply after the operation or when you don't use.
5. Bypass Valve	Use to blow and exhaust initial air, drain and etc.
6. Safety valve	Install the pressure relief valve in case that steam pressure would become 1.0MPa or more.

※NOTE Install the steam piping always higher position than stem inlet of the machine.  
When the water drain is accumulated in the pipe, there is a possibility that the performance is lowered

- (2) Please take measures for steam ejected from the exhaust port.  
 (3) Please provide heat insulation on the piping of vapor supply line and vapor exhaust line.  
 (4) Please install a ground line on the ground rod. A ground line is on the back of the sealer.  
 And the ground resistance should be under 1000Ω.



# EPV 610-NTW VACUUM BAG STEAMSEALER

## 1. Device overview

This device is over an intrinsic safety explosion proof steam sealer.

High temperature saturated steam is utilized as a heat source for sealing, there is no electrical ignition source in the seal portion.

Electrical power source is not necessary. Air pressure activates and controls the sealer.

Therefore EPV-460 is available for packaging in hazardous area.

Also this device has a vacuuming nozzle. So you can seal pouches after vacuuming.

## 2. Machine specifications

### 2-1. Explosion proof specifications

Explosion proof construction	Not applicable for classification of explosion proof construction. Electrical parts are not used.
Available hazardous area	Division 1, Division 2 (Sealer only)
Ignitability	G2 (Ignition point 300 ~ 450°C)

### 2-2. Power specifications

Electric source is not required

### 2-2. Seal specifications

Effective seal length	610mm ( 24" )
Seal width※	8mm ( 0.31" )
Seal method	Steam Impulse / Single, lower side heating

※NOTE The seal width here refers to the width of the sealing pipe that is used in the device and does not necessarily correspond to the actual, finished seal dimension on the bag.

### 2-3. Other machine specifications

Control method	Air sequencer	
Drive system	Air cylinder	
Air source	External air required (Please prepare the air source at customer's facility.) Compatible compressor 1.5kw(165L/min) or greater Air pressure setting value: 0.55MPa	
Piping	Air supply line: Mail hose tail O.D 8mm Saturated vapor supply line: R 1/2" (1/2" NPT) Drain exhaust line: R 1/2" (1/2" NPT)	
Vacuuming source	Using an ejector: Ultimate press. -34 kPa, Exhaust speed 1015 L/min *The value is the value on the manufacture's catalog. Actually, the value might be under the value.	
Supply steam pressure	0.8MPa (114psi) *It can be used under that pressure, but the sealing temperature goes down. At that case we need to have a meeting.	
Steam flow	Over 10kg/h (22 lb/h)	
Exhaust	Operated air is exhausted inside of the sealer. Vapor and cooling air is exhausted form the drain exhaust line.	
Machine dimension	Refer the attached external view.	
Housing	Exposed metal plates	SUS304, buff finish #400
	Exposed aluminum	White anodized finish
	Cock / Coupler	Stainless steel, brass, plating processing

### 3-1. Work method

Only sealing	Doing only sealing
Vacuuming and sealing	Sealing after vacuuming

### 3-2. Setting items

Heating temperature setting range	120 ~ 175°C (0.1MPa – 0.8MPa) (Corresponding value from the amount of saturated water vapor)*
Heating time setting range	About 1 ~ 20 seconds
Cooling time setting range	About 3 seconds (fixed)
Vacuuming time	About 1 ~ 20 seconds

**\*NOTE**

Heating temperature depends on the pressure of supplied saturated vapor.  
Temperature is not adjustable. It is not possible to set the seal temperature on the machine.

## 4. Safety features

Pressurizing at seal	The seal lever uses spring action to clamp down on the bag so that no forcible pressure is applied when finger or other foreign object get caught. Pressure of 63-diameter cylinder output force is applied when sealing.
Emergency Reset Mechanism:	When the lever is being lowered, removing foot from the footswitch will raise the lever from its lowered position.

## 5. Accessories

Consumable parts	Antistatic glass tape (38mmx10m)	1 roll
Accompanying paper	Operating instructions	1 piece

## 6. Requirements for installing the machine

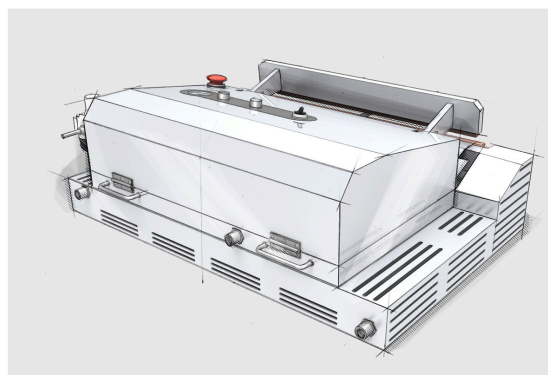
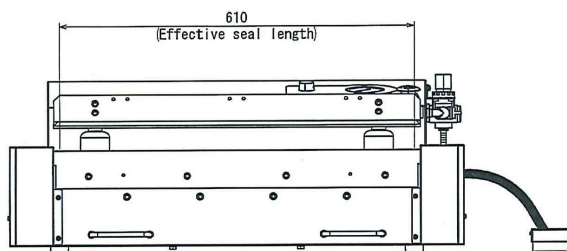
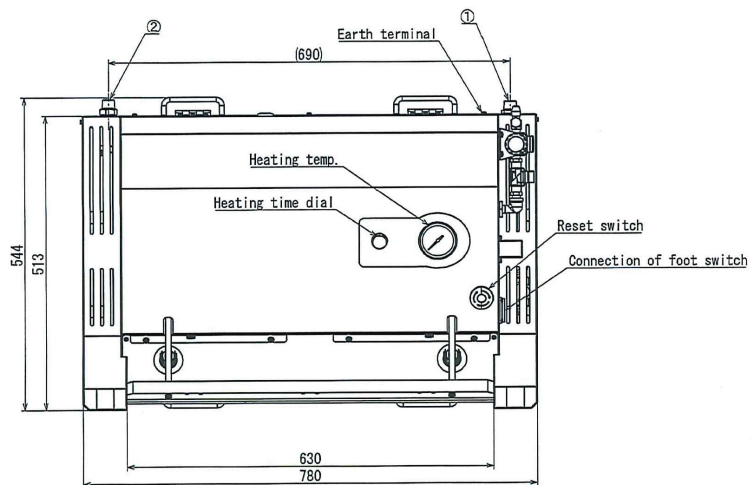
(1) Please set the following equipments and piping around the interface area for steam line.

1. Regulator	Adjust the pressure of supplying saturated vapor to the sealer.
2. Pressure gauge	Required for checking the pressure of saturated vapor at the interface point.
3. Steam trap	Required to remove drained water.
4. Vapor supply valve	Stop vapor supply after the operation or when you don't use.
5. Bypass Valve	Use to blow and exhaust initial air, drain and etc.
6. Safety valve	Install the pressure relief valve in case that steam pressure would become 1.0MPa or more.

**\*NOTE**

Install the steam piping always higher position than stem inlet of the machine.  
When the water drain is accumulated in the pipe, there is a possibility that the performance is lowered

- (2) Please take measures for steam ejected from the exhaust port.  
(3) Please provide heat insulation on the piping of vapor supply line and vapor exhaust line.  
(4) Please install a ground line on the ground rod. A ground line is on the back of the sealer.  
And the ground resistance should be under 1000Ω.



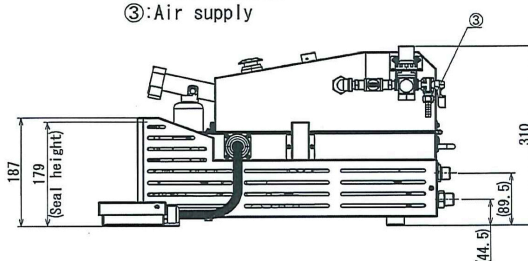
**Weight: 44kg (97lb)**

(Note) ①~③ shows interface point with a facility.

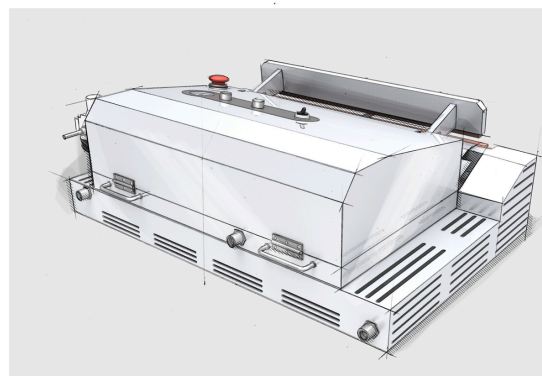
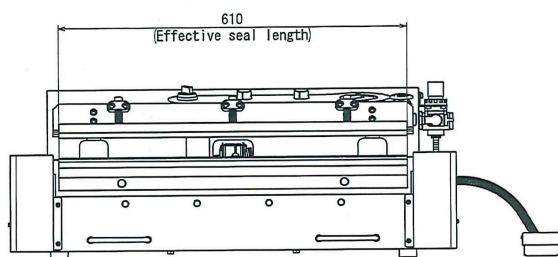
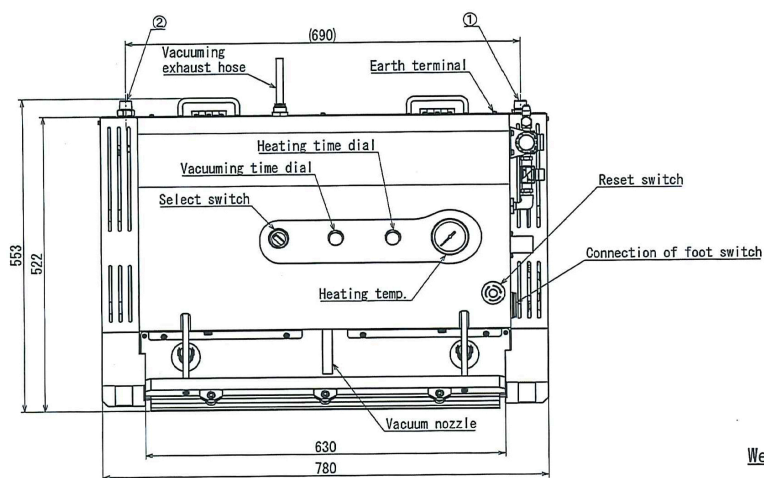
①: Saturated vapor supply

②: Drain exhaust

③: Air supply



## EPV 610-NTW VACUUM BAG STEAMSEALER



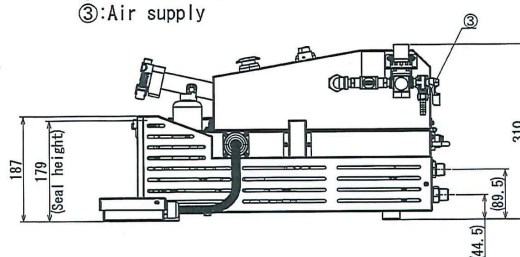
**Weight: 54kg (119lb)**

(Note) ①~③ shows interface point with a facility.

①: Saturated vapor supply

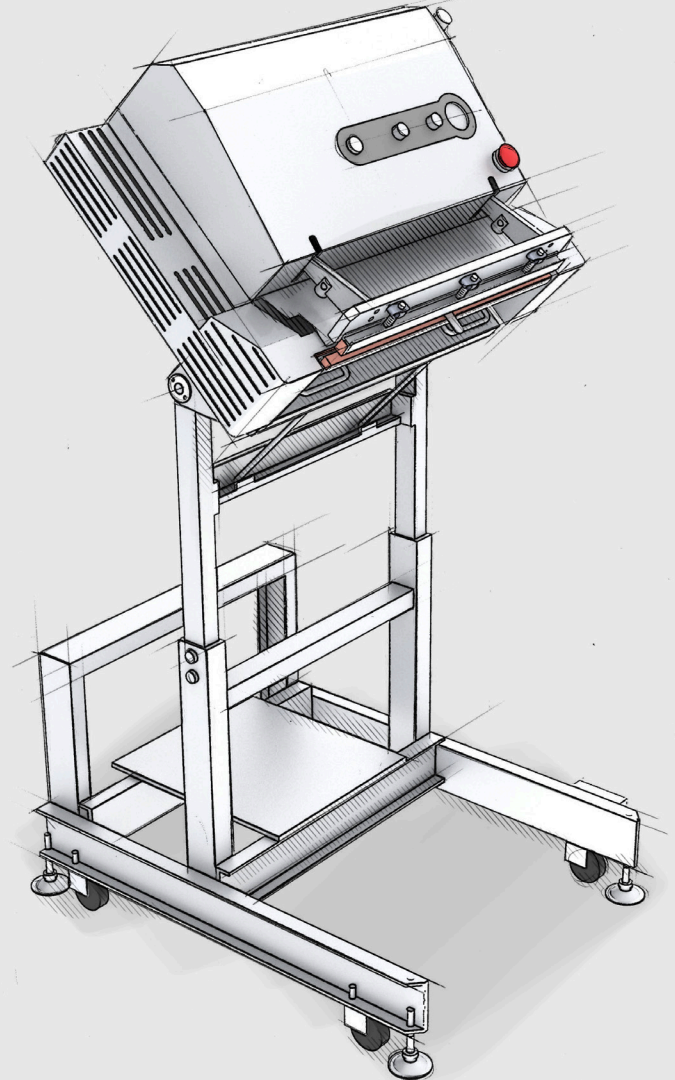
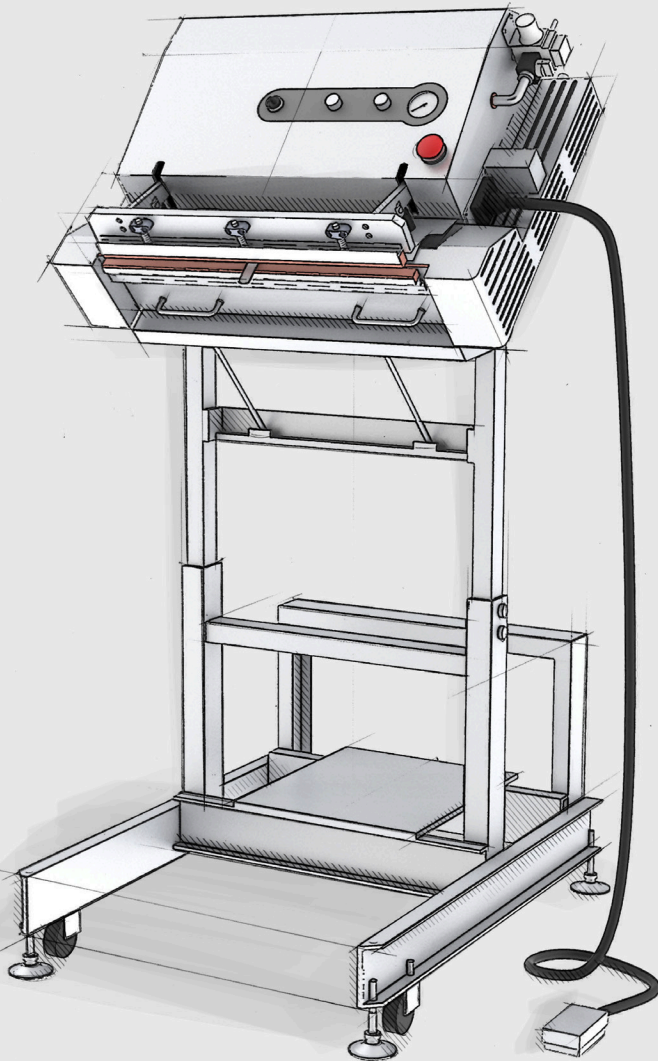
②: Drain exhaust

③: Air supply





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