

# FOOT-OPERATED IMPULSE SEALER



## Industries and Applications

- ✓ Pouch Manufacturing
- ✓ Dairy Farming, Heavy-Duty Sacks, Bags
- ✓ Confectionery Production, Breadmaking, Fish and Seafood
- ✓ Industrial Components, Parts & Tools
- ✓ Apparel, Individual Packaging for Clothing

## Fi Series



### Simple Operation

Effortless foot-operation creates beautiful, strong seals. Use the timer to set the heating time. Situate the bag on the sealing area. (The heating time to be set using the timer varies by the type and thickness of the packaging material.) Simply step on the pedal to create a seal. Release the pedal 2-3 seconds after the heat indicator lamp turns off.

and 10 mm are available. In addition to a single-heating type capable of sealing materials up to 0.3mm thick (total thickness of overlapping sheets), there is a double-heating type capable of sealing thick or laminated bags up to 0.4mm thick (total thickness of overlapping sheets).

The double heater type is good also for thick gusset bags.



Fi-300

### Good for a Variety of Applications

The sealing pressure may be adjusted according to bag thickness and material. Adjust the pressure by turning the pressure adjuster nut located at the center of hook bar. Good for seal lengths of 200, 300 and 600mm. Models for seal widths of 2, 5

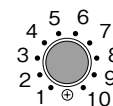
### Safety Measures

#### Anti-Overheating Mechanism

Should the heating element ever overheat (should the heater continue to heat beyond the first 3 seconds of heating), the power switch automatically shuts off to stop the heater from heating further.

### Operation Setting

Heating Time : Dial 1 – 10  
(About 0.1 – 1.6 sec.)



### Option

#### Hot stamp printer FEP-N2 series

Standard table\*1

Special table\*2

PK-101



Fi300 with optional FEP-N2 printer



Fi300 with optional PK-101

#### PK-101 - the Clamping Retaining Device

An optional clamping retaining device PK-101 may be installed to the Fi series of sealers to precisely even out the sealing finish and to effectively resolve the problem of user fatigue from operating the pedal by foot.

The user can set the cooling time (i.e., clamping retention time). On

the PK-101, a solenoid works to automatically retain pressure when the user steps on the pedal, and the clamping lever returns to the initial position after the sealing is complete. The applied pressure and the retention (cooling) time can be adjusted according to packaging material.

Model Name	Power V *3	Power Consumption W	Heating Method *4	Seal Length mm	Seal Width mm	Film thickness (total) mm *5	Machine Weight kg	Machine Dimension W x D x H mm	Standard Equipped	Optional Items				
										Standard Table	Printer		Special Table	PK-101
											Inner	Outer		
Fi-200-10	110/ 220	1200	Single	200	10	Less than 0.3	20	390 x 520 x 920	○	○	–	○	○	
Fi-200-10D	110/ 220	1400	Double	200	10	Less than 0.4	21	390 x 520 x 920	○	○	–	○	○	
Fi-300	110/ 220	1050	Single	300	5 or 2	Less than 0.3	20	390 x 520 x 920	○	○	○	○	○	
Fi-300-Fusing type	110/ 220	1050	Single	300	–	–	20	390 x 520 x 920	○	○	○	○	○	
Fi-300-5D	110/ 220	1100	Double	300	5	Less than 0.4	21	390 x 520 x 920	○	○	–	○	○	
Fi-300-10	110/ 220	1700	Single	300	10	Less than 0.3	23	390 x 520 x 920	○	○	○	○	○	
Fi-300-10D	110/ 220	1700	Double	300	10	Less than 0.4	23	390 x 520 x 920	○	○	–	○	○	
Fi-600-2	110/ 220	1010	Single	600	2	Less than 0.3	25	680 x 530 x 1030	○	○	○	○	○	
Fi-600-5	110/ 220	1600	Single	600	5	Less than 0.3	29	680 x 530 x 1030	○	○	○	○	○	
Fi-600-Fusing type	110/ 220	1500	Single	600	–	–	27	680 x 530 x 1030	○	○	○	○	○	
Fi-600-5D	110/ 220	1500	Double	600	5	Less than 0.4	34	680 x 530 x 1030	○	○	–	○	○	
Fi-600-10	220	2650	Single	600	10	Less than 0.3	28	680 x 530 x 1030	○	○	○	○	○	
Fi-600-10D	220	2900	Double	600	10	Less than 0.4	34	680 x 530 x 1030	○	○	–	○	○	

\*1 A stainless, single-leaf table that attaches to the seal frame. Sizes 200 or 300 are available.

\*2 The special table attaches to the support pipe of the Fi stand. It can support the weight of a heavy package. Sizes 600 or 300/450 are available.

\*3 Other voltages available on request.

\*4 Single: heating element mounted on the lower side. Double: Heating element mounted on both upper and lower sides.

\*5 Total thickness of overlapping films. The value may vary depending on the voltage or type of films.

# FR-450 Series

Seal Only      Foot Operated      Frequency 1,000-3,000 bags/day

## Simple Operation

Effortless foot-operation creates beautiful, strong seals. Use the timer to set the heating time. Situate the bag on the sealing area. (The heating time to be set using the timer varies by the type and thickness of the packaging material.) Simply step on the pedal to create a seal. Keep the pedal depressed for 2 to 3 seconds after the heating lamp turns off to allow for cooling. Normally a cooling time of 1.5 to twice the heating time is recommended.

tables may be installed on FR-450 series of sealers. Note that angle bars must be removed before installing a special table.



FR-450-5

## Angle-Bar-Fixed Table (Standard Equipment)

The table height can be adjusted according to your work environment. Hook the table to the angle-bar steel on both sides of the sealer to anchor the table.

Good for bags filled with rice and other items weighing between 2 and 15kg.

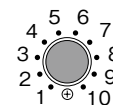
Table size: W 410mm x L 190mm. The Fi Series standard and special

## Safety Measures Anti-Overheating Mechanism

Should the heating element ever overheat (should the heater continue to heat beyond the first 3 seconds of heating), the power switch automatically shuts off to stop the heater from heating further.

## Operation Setting

Heating Time : Dial 1 – 10 (About 0.1 – 1.6 sec.)



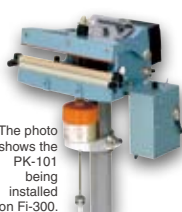
## Option

### Hot stamp printer FEP-N2 series

An electronic printer (two-line printing device) may be installed on the FR series of sealers. For the detailed information of the FEP-N2 series, please refer to page 34. The following table shows models to which printers can be installed:



The photo shows the optional FEP-N2 printer being installed on Fi-300.



The photo shows the PK-101 being installed on Fi-300.

### PK-101 - the Clamping Retaining Device

An optional clamping retaining device PK-101 may be installed to the FR series of sealers to precisely even out the sealing finish and to effectively resolve the problem of user fatigue from operating the pedal by foot. The user can set the cooling time (i.e., clamping retention time) and the pressure on film that have a major effect on the impulse sealer's

sealing finish. These cannot be set using the timer on the sealer. On the PK-101, a solenoid works to automatically retain pressure when the user steps on the pedal, and the clamping lever returns to the initial position after the sealing is complete. The applied pressure and the retention (cooling) time can be adjusted according to packaging material.

Model Name	Power V *3	Power Consumption W	Heating Method *4	Seal Length mm	Seal Width mm	Film thickness (total) mm *5	Machine Weight kg	Machine Dimension W x D x H mm	Standard Equipped	Optional Items		
									Standard Table	Printer		PK-101
										Inner	Outer	
FR-450-2	110/ 220	700	Single	450	2	Less than 0.3	21	530 x 560 x 1030	○	○	○	○
FR-450-5	110/ 220	1200	Single	450	5	Less than 0.3	22	530 x 560 x 1030	○	○	○	○
FR-450-10	110/ 220	2150	Single	450	10	Less than 0.3	27	530 x 560 x 1030	○	○	○	○
FR-450-5D	110/ 220	1300	Double	450	5	Less than 0.4	25	530 x 560 x 1030	○	○	-	○
FR-450-10D	110/ 220	1500	Double	450	10	Less than 0.4	29	530 x 560 x 1030	○	○	-	○

\*1 Other voltages available on request.

\*2 Single: heating element mounted on the lower side. Double: Heating element mounted on both upper and lower sides.

\*3 Total thickness of overlapping films. The value may vary depending on the voltage or type of films.

TABLE-TOP  
SEMI-AUTOMATIC  
FOOT-OPERATED  
VACUUM  
GAS-FRESH & VACUUM  
LONG SIZE  
MEDICAL  
HOT STAMP PRINTER  
OTHERS

## Fi-400Y / Fi-600Y Series

Seal Only

Foot Operated

Frequency 1,000-3,000 bags/day

### Simple Operation

The 400Y/600Y series allow film to pass through the sealing area, making it possible to seal other than the end of a bag. It can be used also for processing block-bottom bags. Effortless foot-operation creates beautiful, strong seals. Use the timer to set the heating time and cooling time. Situate the bag on the sealing area. (The heating time to be set using the timer varies by the type and thickness of the packaging material.) Simply step on the pedal to create a seal.

(i.e., cooling) time using the timer on the clamping retaining device PK. Situate the bag on the sealing area. Simply step on the pedal to create a seal.

### What is PK-102?

With PK-102, the user can adjust the sealing pressure and clamping retention (i.e., cooling) time according to bag material, which was not possible with the timer on the foot-operated sealer alone. This reduces the strain on the user caused by foot-operation, and resolves the problem of disparity in the sealing finish among different operators.



Fi-600Y-5 PK

### Clamping Retaining Device

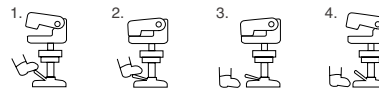
#### PK-102 :

#### Standard Equipped for Easy Foot Operation

The 400Y/600Y series comes standard equipped with the clamping retaining device, PK-102. The clamping retaining device stabilizes the seal precision and reduces the load of foot operation. Set the heating time using the timer on the sealer and set the clamping retention

### Clamping Retention Time Setting Range:

User-defined heating time + 0.1 to 5.0 seconds



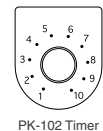
1. Step on the pedal
2. Begin applying pressure (clamping retention)
3. Sealing process (heating and cooling)
4. Seal is complete. The clamping lever is lifted.

### Operation Setting

Heating Time : Dial 1 - 10  
(About 0.1 - 1.6 sec.)  
PK-102 Timer : Dial 1 - 10  
(About 0.1 - 5.0 sec.)



Heating Timer

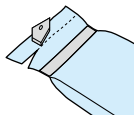


PK-102 Timer

## Comprehensive Production Lineup

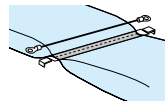
### Type C Featuring a Cutting Mechanism (YC Type)

The C type is equipped with a cutting mechanism to cut excess bag (film) ends. Slide the cutter knob sideways in either direction to cut the tube-shaped film after sealing it.



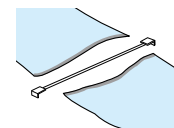
### Type 10C for In-Between Cuts (10C/5C Type)

The 10C type uses a cutting heater to cut through the centerline of the sealed area. It can be used to seal and cut apart the tube-shaped film at the same time to make bags.



### Fusing-Cut Type

The melt-cut type can be used for processing bags in which a round-wire melt-cutting heater is used to cut the bag (film). Although the melt-cutting heater slightly fuses the film together, there is hardly any sealing strength.



Model Name	Power V *1	Power Consumption W	Heating Method *2	Seal Length mm *3	Seal Width mm	Film thickness (total) mm *4	Machine Weight kg	Machine Dimension W x D x H mm	Standard Equipped	Optional Items			
										PK-102	Printer		Special Table
										Inner	Outer		
Fi-400Y-2 PK	110/ 220	750	Single	400	2	Less than 0.3	29	530 x 410 x 930	○	-	-	○	○
Fi-400Y-5 PK	110/ 220	1400	Single	400	5	Less than 0.3	30	530 x 420 x 930	○	-	-	○	○
Fi-400Y-10 PK	220	2300	Single	400	10	Less than 0.3	34	530 x 430 x 930	○	-	-	○	○
Fi-400Y-5D PK	110/ 220	1400	Double	400	5	Less than 0.4	33	530 x 420 x 930	○	-	-	○	○
Fi-400Y-10D PK	220	2300	Double	400	10	Less than 0.4	34	530 x 430 x 930	○	-	-	○	○
Fi-400Y-Fusing Type PK	110/ 220	1250	Single	400	-	-	30	530 x 420 x 930	○	-	-	○	○
Fi-400YC-2 PK	110/ 220	750	Single	400	2	Less than 0.3	29	530 x 410 x 930	○	-	-	○	○
Fi-400YC-5 PK	110/ 220	1400	Single	400	5	Less than 0.3	30	530 x 420 x 930	○	-	-	○	○
Fi-400YC-10 PK	220	2300	Single	400	10	Less than 0.3	34	530 x 430 x 930	○	-	-	○	○
Fi-400Y-5C PK	110/ 220	1400	Single	400	5	Less than 0.3	30	530 x 420 x 930	○	-	-	○	○
Fi-400Y-10C PK	220	2300	Single	400	10	Less than 0.3	34	530 x 430 x 930	○	-	-	○	○

\*1 Other voltages available on request.

\*2 Single: heating element mounted on the lower side. Double: Heating element mounted on both upper and lower sides.

\*3 600mm also available.

\*4 Total thickness of overlapping films. The value may vary depending on the voltage or type of films.