

# ASSEMBLY INSTRUCTIONS

## SPS600H WATER FILTER — KIT NO. 854306-16

This kit is used on Hobart model HSF3, HSF4, HSF5 and HSF90 countertop steamers and on model HCE6H, HCE10H and HCE10F combi ovens.

Part Number	Part Name	Qty
854306-1	Backplate . . . . .	1
854306-2	Clear Housing, 10" . . . . .	1
854306-3	U-Bracket, Large . . . . .	1
854306-5	O-Ring, Large, Black . . . . .	1
223220-3	Brass Ball Valve, 3/4" . . . . .	1
FP-069-02	Tee Pipe Fitting, Stainless Steel, Internal Threads, 3/4" . . . . .	1
FP-081-25	Pipe Bushing, Stainless Steel, 3/4" x 1/4" . . . . .	1
854306-9	Brass Pressure Gauge . . . . .	1
<b>FP-041-54</b>	Nipple, Brass, 3/4" x 2" . . . . .	1
FP-054-29	Nipple, Stainless Steel, 3/4" x 2" . . . . .	1
854306-18	Wrench for Housing . . . . .	1
854306-19	4-IN-1 City Water Check + Test Strip . . . . .	1
854306-21	Filter Mounting Head, Black . . . . .	1
854306-26	Label, Backplate, SPS600H . . . . .	1
	Filter, 10" . . . . .	1
	O-Ring, Small, White . . . . .	2
F-34722	Assembly Instructions . . . . .	1
<b>Service Kit</b>		
854306-17	Filter Cartridge Replacement and Preventive Maintenance Kit 10" . . . . .	1

## SPS620H WATER FILTER — KIT NO. 854306-22

This kit is used on Hobart model HCE20H and HCE20F combi ovens.

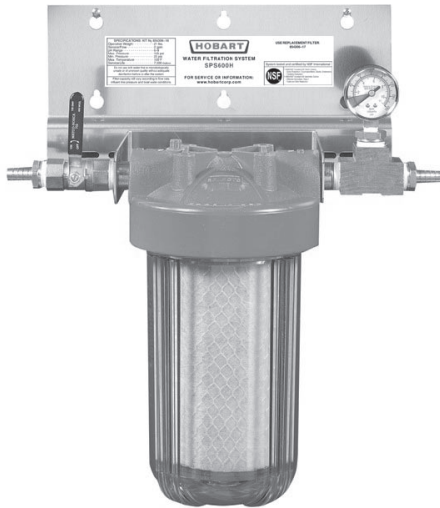
Part Number	Part Name	Qty
854306-1	Backplate . . . . .	1
854306-12	Clear Housing, 20" . . . . .	1
854306-3	U-Bracket, Large . . . . .	1
854306-5	O-Ring, Large, Black . . . . .	1
223220-3	Brass Ball Valve, 3/4" . . . . .	1
FP-069-02	Tee Pipe Fitting, Stainless Steel, Internal Threads, 3/4" . . . . .	1
FP-081-25	Pipe Bushing, Stainless Steel, 3/4" x 1/4" . . . . .	1
854306-9	Brass Pressure Gauge . . . . .	1
<b>FP-041-54</b>	Nipple, Brass, 3/4" x 2" . . . . .	1
FP-054-29	Nipple, Stainless Steel, 3/4" x 2" . . . . .	1
854306-18	Wrench for Housing . . . . .	1
854306-19	4-IN-1 City Water Check + Test Strip . . . . .	1
854306-21	Filter Mounting Head, Black . . . . .	1
854306-27	Label, Backplate, SPS620H . . . . .	1
	Filter, 20" . . . . .	1
	O-Ring, Small, White . . . . .	2
F-34722	Assembly Instructions . . . . .	1
<b>Service Kit</b>		
854306-23	Filter Cartridge Replacement and Preventive Maintenance Kit 20" . . . . .	1



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**SPS600H Water Filter**



**SPS620H Water Filter**

The water filtration system conforms to ANSI/NSF Standard 53 and ANSI/NSF Standard 42 for the specific performance claims as verified and substantiated by test data.

Filter capacity will vary according to flow rate, influent water pressure and local water conditions.

Service life for the filter cartridge for model SPS600H is 7,500 gallons (28,390 liters); for the filter cartridge for model SPS620H, the service life is 15,000 gallons (56,780 liters). Filter cartridge replacement is recommended at least every 6 months. Filter cartridge replacement is also recommended if water pressure goes below 20 psig (138 kPa).

## **UNPACKING**

This water filter was inspected before leaving the factory. The transportation company assumes full responsibility for safe delivery upon acceptance of the shipment. Immediately after unpacking, check for possible shipping damage. If the water filter is found to be damaged, save the packaging material and contact the carrier within 15 days of delivery.

## **LOCATION**

The water filter(s) should be mounted on a sturdy support structure or wall and must be level. Do not mount filter system directly on steamer.

## **LEVELING**

Use a spirit level to level the top of the water filter's mounting head.

## **INSTALLATION REQUIREMENTS**

The SPS600H or SPS620H water filter is designed to be installed in the cold water line only. Installation of the water filter in a hot water line can damage the filter housing.

The filter must be in contact with water at all times after installation. Installation must comply with any existing state or local plumbing codes. Recommended incoming flow rate for model SPS600H is 2 gallons per minute (7.6 liters per minute). For model SPS620H, the recommended incoming flow rate is 4 gallons per minute (15.1 liters per minute).

The SPS600H and SPS620H filters must be protected against freezing. Failure to do so could result in breakage of the filter housing and water leakage.

#### WATER PARAMETERS

pH	6 to 9
Alkalinity	80 to 100 ppm
Chlorine	0 to 4 ppm
Hardness	0 to 300 ppm

Minimum operating temperature: 45°F (7°C). Maximum operating temperature: 100°F (38°C).

Minimum operating pressure: 20 psig (138 kPa). Maximum operating pressure: 125 psig (862.5 kPa).

Minimum line pressure: 40 psig (276 kPa). Maximum line pressure: 125 psig (862.5 kPa).

If filter pressure gauge is over 60 psig (414 kPa), you must reduce the pressure to the boiler to a maximum of 60 psig (414 kPa). Install a water pressure reducing regulator (part number 854322 or equivalent) after the filter, move the pressure gauge downstream of the regulator and set the pressure at 60 psig (414 kPa).

Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before and after the filter. Connecting to a municipal water supply complies with this requirement.

#### PLUMBING CONNECTIONS

**WARNING:** PLUMBING CONNECTIONS MUST COMPLY WITH APPLICABLE SANITARY, SAFETY AND PLUMBING CODES.

The filter housing on model SPS600H and model SPS620H water filters comes with <sup>3</sup>/<sub>4</sub>" NPT internal pipe threads on both the inlet and outlet sides. The inlet is on the left; outlet is on the right after the pressure gauge.

Connect the incoming cold water to the water filter's incoming connection on the left.

Connect the outlet from the water filter (right of the pressure gauge) to the incoming water connection of the boiler, steam generator, steamer or combi oven. Steamers and combi ovens have two water connections, a boiler feed line and a cold water condenser. Make sure the outlet from the water filter is connected to the boiler feed line on the steamer or combi oven.

#### OPERATING THE STEAMER

The proper water filter cartridge should already be installed in the filter housing. Make sure the filter housing is firmly screwed into the filter mounting head.

Turn on the filter water supply valve.

Press the red pressure relief button on top of the filter mounting head until all air is purged from the filter.

#### FILTER SYSTEM MAINTENANCE

When the water filter pressure gauge drops to 20 psig or below during system operation, it is necessary to perform the necessary filter system maintenance.

Filter system maintenance, including the use of the reagent pack and replacement of the filter cartridge, must be done at least every six months. **NOTE:** Failure to follow use, care and maintenance instructions may void your Hobart equipment warranty.

# MAINTENANCE

## FILTER CARTRIDGE REPLACEMENT AND PREVENTIVE MAINTENANCE KIT

Filter Model	Part Number	Height of Filter
SPS600H	854306-17	10"
SPS620H	854306-21	20"

If the filter is to be installed on a steamer or combi oven that has been in use for a period of time, before installing the filter, delime per the equipment's Instructions manual.

After installation of the filter on a used or new steamer, every six months or when the filter pressure gauge declines to 20 psig, follow the instructions in the filter cartridge replacement and preventive maintenance kit and do not delime per the equipment's Instructions manual.

If the filter system is being installed on a new combi oven, at least every six months or when the filter pressure gauge declines to 20 psig, follow the Clean Cycle Deliming Procedure in the equipment's Instructions manual. For filter replacement, follow the instructions in the filter cartridge replacement and preventive maintenance kit.

# TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE	SUGGESTED CORRECTIVE ACTION
Short filter life.	Filter clogs due to excessive particles in water.  Low incoming water pressure.  Excessively hard water or water quality beyond specification.  Filtered water not going to boiler feed line.  A leaking Fill Valve on the steamer equipment will deplete the filter quickly.	An additional filter may be needed.  Check water source.  Additional water treatment may be needed before filter.  Check plumbing lines.  Contact Service (to replace valve) if water is flowing through the filter when the steamer is off.
Steamer not operating.	Incoming water supply valve off.  Filter cartridge installed upside-down.  Steamer not turned on.	Turn supply valve on.  Reinstall filter right side up.  Turn steamer on.

## SERVICE

To obtain service or adjustments on this water filter or to order parts, contact your local Hobart Service Office.