

REFRIGERATOR MANUFACTURER
Turbo air

Turbo Air Speeds up the Pace of Innovation

Premiere Pro Series Refrigerators & Freezers Installation and Operation Manual

Please read this manual completely before attempting to install or operate this equipment!

Full Stainless Steel Interior and Exterior

SOLID DOOR REFRIGERATORS

PRO-26R PRO-26-2R
PRO-50R PRO-50-4R
PRO-77R PRO-77-6R

GLASS & SOLID HALF DOOR REFRIGERATORS

PRO-26R-GSH
PRO-50R-GSH
PRO-77R-GSH

SOLID DOOR FREEZERS

PRO-26F PRO-26-2F
PRO-50F PRO-50-4F
PRO-77F PRO-77-6F

PASS THRU REFRIGERATORS

PRO-26R-PT PRO-26-2R-PT
PRO-50R-PT PRO-50-4R-PT
PRO-26R-GSH-PT
PRO-50R-GSH-PT



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SPECIFICATIONS

Refrigerators

| MODEL | COM H.P. | V/Hz | REFRIGERANT | AMPS | WEIGHT |
|----------------|----------|-----------|-------------|-------|--------|
| PRO-26R | 1/3 | 115V/60Hz | R-134A | 5.2A | 315lbs |
| PRO-50R | 1/2 | 115V/60Hz | R-134A | 9.1A | 485lbs |
| PRO-77R | 1 | 115V/60Hz | R-134A | 11.3A | 697lbs |
| PRO-26-2R | 1/3 | 115V/60Hz | R-134A | 5.2A | 315lbs |
| PRO-50-4R | 1/2 | 115V/60Hz | R-134A | 9.1A | 485lbs |
| PRO-77-6R | 1 | 115V/60Hz | R-134A | 11.3A | 697lbs |
| PRO-26R-GSH | 1/3 | 115V/60Hz | R-134A | 5.2A | 320lbs |
| PRO-50R-GSH | 1/2 | 115V/60Hz | R-134A | 9.1A | 495lbs |
| PRO-77R-GSH | 1 | 115V/60Hz | R-134A | 11.3A | 708lbs |
| PRO-26R-PT | 1/3 | 115V/60Hz | R-134A | 5.2A | 355lbs |
| PRO-50R-PT | 1/2 | 115V/60Hz | R-134A | 9.1A | 565lbs |
| PRO-26R-2R-PT | 1/3 | 115V/60Hz | R-134A | 5.2A | 355lbs |
| PRO-50R-4R-PT | 1/2 | 115V/60Hz | R-134A | 9.1A | 565lbs |
| PRO-26R-GSH-PT | 1/3 | 115V/60Hz | R-134A | 5.2A | 360lbs |
| PRO-50R-GSH-PT | 1/2 | 115V/60Hz | R-134A | 9.1A | 560lbs |

Freezers

| MODEL | COMP H.P. | V/Hz | REFRIGERANT | AMPS | WEIGHT |
|-----------|-----------|--------------------|-------------|-------|--------|
| PRO-26F | 3/4 | 115V/60Hz | R-404A | 7.8A | 315lbs |
| PRO-50F | 1 1/4 | 115V/60Hz | R-404A | 10.5A | 485lbs |
| PRO-77F | 1 1/2 | 115V/208~230V/60Hz | R-404A | 10.4A | 697lbs |
| PRO-26-2F | 3/4 | 115V/60Hz | R-404A | 7.8A | 331lbs |
| PRO-50-4F | 1 1/4 | 115V/60Hz | R-404A | 10.5A | 496lbs |
| PRO-77-6F | 1 1/2 | 115V/208~230V/60Hz | R-404A | 10.4A | 728lbs |

SERIAL NUMBER

The serial number is located on the data label inside.
Please retain the unit's serial number for service purpose.

INSTALLATION

1. GOOD AIR CIRCULATION

- Be sure to avoid any partition and object which may stop the air flow
- Be sure that air space is allowed to flow the rear of the unit. Turbo air recommends that the rear of the unit would be no less than 5 inches from the wall

2. PLACE ON STRONG GROUND

- Be sure that the location be chosen has a strong enough floor to support the total weight of the cabinet and any other contents

3. DO NOT PLACE NEAR HEAT

- Be sure to avoid hot corners and locations near stoves
- High ambient temperature will make much lower cooling efficiency

4. INDOOR USAGE ONLY

- Be sure to install this unit indoor
- So, It should prohibit getting wet from the rain

5. STABILIZING

- Make sure the unit is installed in a stable condition with the front wheels locked while in use

6. LEVELING

- Be sure that the unit levels from the front to the back and side to side

7. UNIT SHOULD BE ON DEDICATED OUTLET

CLEANING

1. CLEANING THE INTERIOR AND EXTERIOR

- The interior and exterior of the unit can be cleaned using warm water with soap
- Do not use an abrasive cleaner because it will scratch the surface

2. CLEANING THE CONDENSER FINS

- To maintain proper refrigeration performance, the Condenser coil must be free of dust, dirt, and grease. This will require periodic cleaning. Condenser fins should be cleaned at least every three months (90 days) or as needed
- The pressure switch is installed in the product to protect the compressor. Please clean the condenser every 90 days or the pressure switch will cut out the unit, to protect the compressor from high pressure

3. CLEAN THE GASKET

- The door gasket should be cleaned frequently to maintain proper sealing

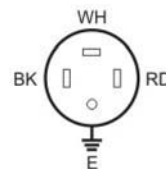
4. CHECK AFTER CLEANING

- Check the unit again for safety
- Check that the unit is operating properly

CAUTION

1. POWER CORD

- Be sure that the power cord is connected to the proper voltage
- A protected circuit of the correct voltage and amperage must be run for connection of the line cord
- Turn 'off' the power switch before disconnecting the power cord, whenever performing maintenance functions or cleaning the refrigerated cabinet
- Dual voltage freezer (PRO-77F, PRO-77-6F) requires receptacle as shown the right sides
- Compressor warranties are void if compressor burns out due to low voltage



2. RE-STARTING

- If disconnected, wait for 5 minutes before re-starting

BASIC OPERATION

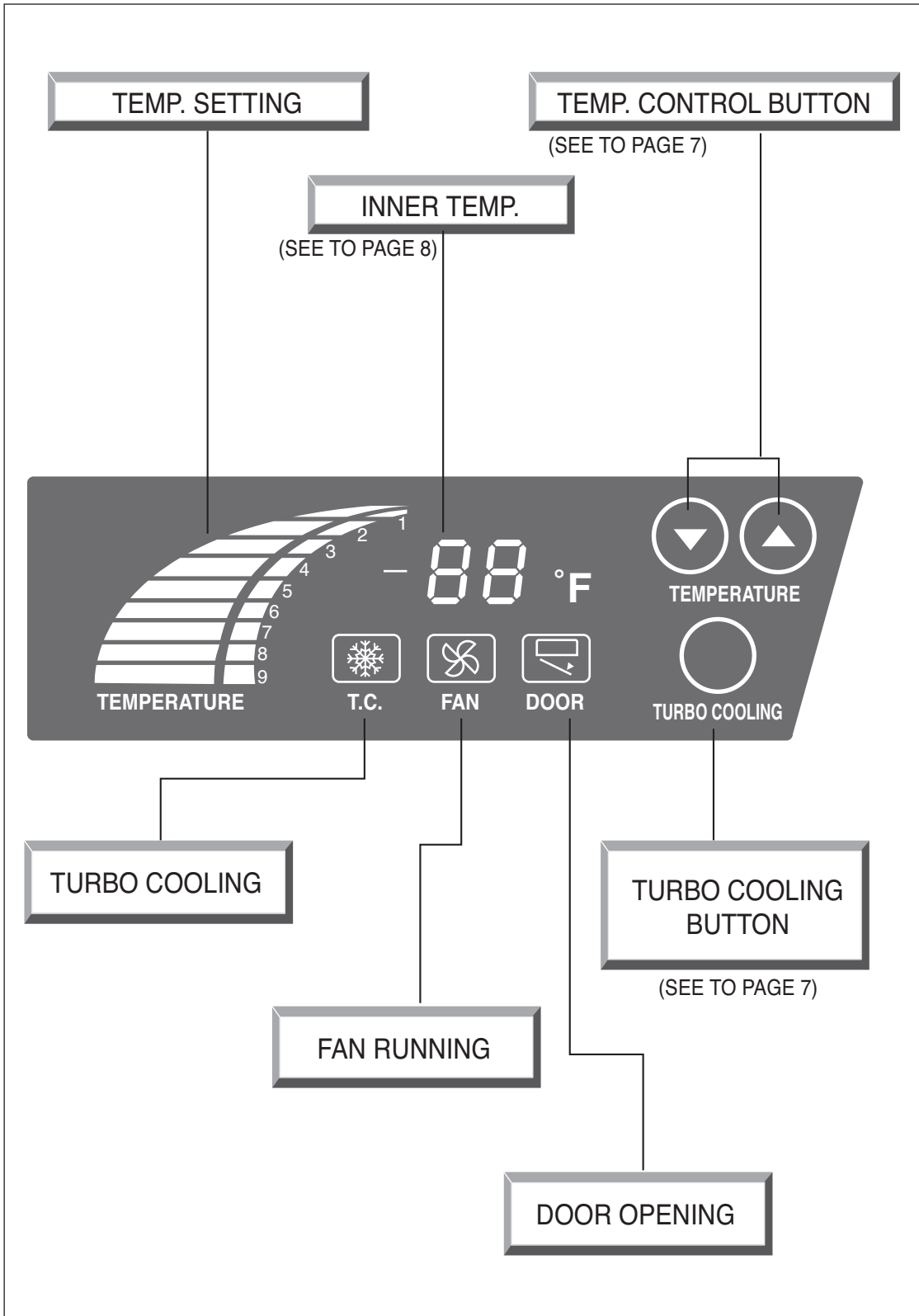
REFRIGERATORS

PRO-26R
PRO-50R
PRO-77R

PRO-26-2R
PRO-50-4R
PRO-77-6R

1. Plug in and turn on the power switch located on the control box.
The Display panel will be lighted and make a beep sound. The compressor will begin to run.
2. The default temperature setting is No. "5".
3. The compressor is automatically cycled by the electronic controller (PCB, RD-Sensor).
4. The Defrost cycle is automatically controlled by the PCB.
5. Set level toward "1" for higher temperature and toward "9" for lower temperature.
6. The interior light is activated by the rocker switch at the bottom of the grille when the door is opened.
7. Evaporator fan motor(s) will run after all doors are completely closed.

DISPLAY PANEL OF REFRIGERATOR



TURBO COOLING

1. If you push the T.C. button again during Turbo Cooling mode, the compressor will return to the normal operation.
2. During the Turbo Cooling mode works, the temperature Up/Down button will not affect the compressor's operation.

UP/DOWN BUTTON (Temperature control button)

1. By pushing the Up/Down button, you can set the inside temperature level from '1' to '9'.
2. If you want lower temperature, push the Down button to be lighted higher level numbers.

INNER TEMPERATURE DISPLAY

1. It displays the inside temperature.
2. Display range is 14°F to 69°F (-10°C ~ +20°C).
3. When the inside temperature is lower than 14°F, the panel will display 'LO'.

LO

and, higher than 69°F, the panel will display 'HI'.

HI

FAN RUNNING INDICATOR

1. If the fan motor is running, fan running indicator will be turned on.
2. Evaporator fan motor is activated when the door (both doors for PRO-50R, PRO-50-4R all three doors for PRO-77R, PRO-77-6R) is closed.

DOOR OPENING INDICATOR

1. If any door is opened, door opening indicator will be turned on.
2. In case that any door was opened around 30 seconds, warning beep sound will ring three (3) times.
3. In case of passing around 1 minute, warning beep sound will ring again five (5) times.
4. In case of passing around 5 minutes, the beep sound will ring continuously.
5. On all the conditions good, the beep sound will stop immediately if door is closed properly.

BASIC OPERATION

FREEZER

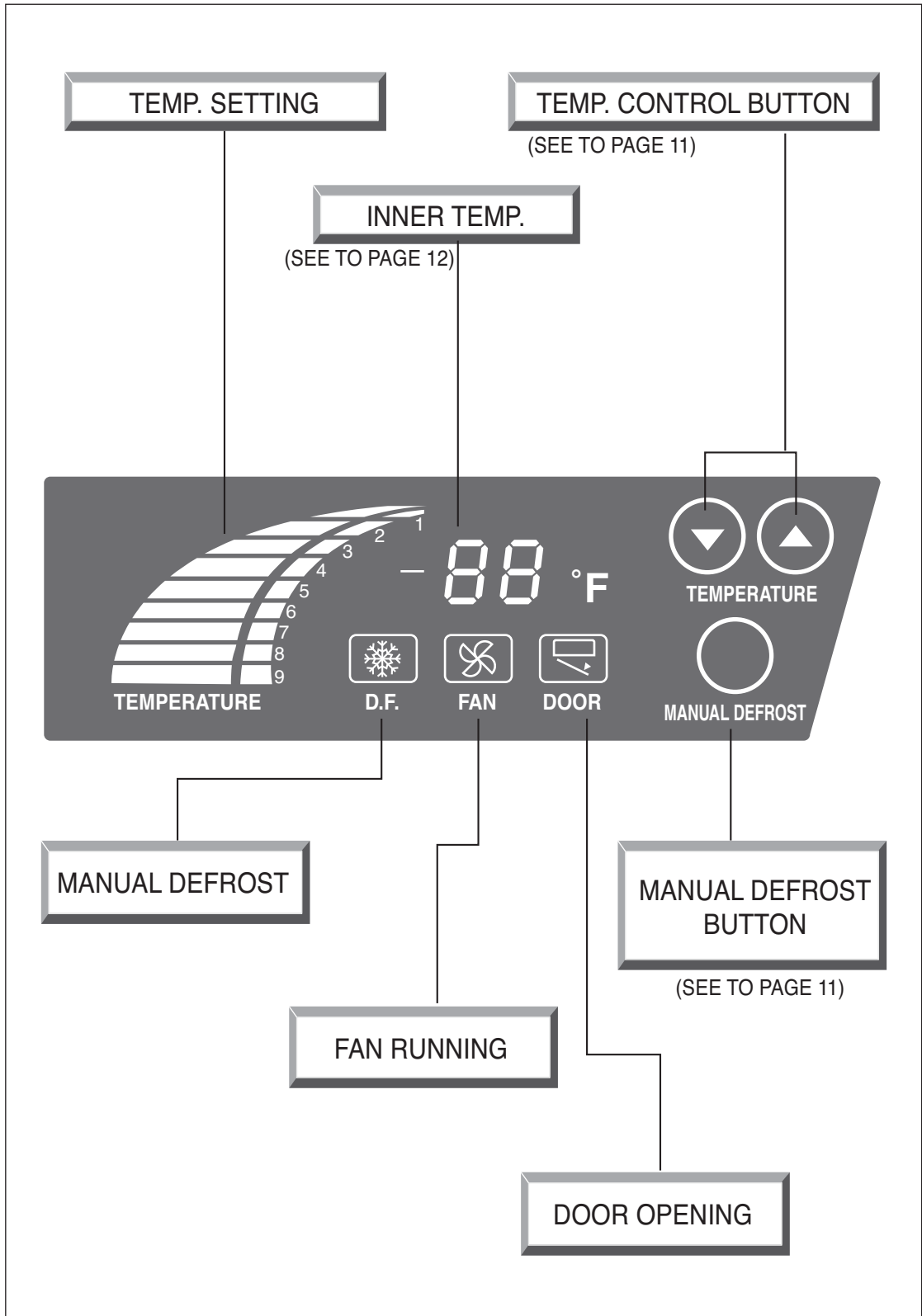
PRO-26F
PRO-50F
PRO-77F

PRO-26-2F
PRO-50-4F
PRO-77-6F

1. Plug in and turn on the power switch located on the bottom of the top grille right side. The Display panel will be lighted and make a beep sound. The compressor will begin to run.
2. The default temperature setting is No. "5".
3. The compressor is automatically cycled by the electronic controller (PCB, F-Sensor).
4. The Defrost cycle is automatically controlled by the D-sensor, and the PCB.
5. Set level toward "1" for higher temperatures and toward "9" for lower temperatures.
6. The interior light is activated by the rocker switch at the bottom of the grille when the door is opened.
7. Evaporator fan motor(s) will run after all doors are completely closed.
8. Good Air Flow in freezer unit is critical.

Be careful to load product so that it neither presses against the back wall, nor reaches within four inches from the evaporator compartment.

DISPLAY PANEL OF FREEZER



MANUAL DEFROST

1. If you push MANUAL DEFROST button for 5 seconds, the Defrost will start.
2. During the Manual Defrost mode, the Up/Down button for the temperature control can not make the compressor cycle ON or OFF.
3. If you want to change the Manual Defrost mode to the normal mode, push MANUAL DEFROST button for 5 seconds.

UP/DOWN BUTTON (Temperature control button)

1. By pushing the up/down button, you can set the inside temperature level from '1' to '9'.
2. If you want lower temperatures, push the Down button to be lighted higher level numbers.

DEFROST

1. The electronic defrost controller is set at the factory to provide a defrost cycle.
2. If it is necessary to change the intervals of defrost due to unusual operating conditions, it can be accomplished by adjusting the switch which is located on the inside of the top grille.
3. Once all frost is eliminated, the temperature continues to rise until it reaches 60 °F (15°C). When this temperature is sensed by the defrost limit control, the defrost control changes to refrigeration mode.
4. The panel displays “dF” during the defrost cycle.



INNER TEMPERATURE DISPLAY

1. It displays inside temperature.
2. Display range is -50°F to 50°F (-45°C ~ +10°C).
3. When inside temperature is lower than -50°F, the panel will display 'LO'.

LO

and, higher than +50°F, the panel will show 'HI'.

HI

FAN RUNNING INDICATOR

1. If the fan motor is running, fan running indicator will be turned on.
2. Evaporator fan motor is activated when the door (both doors for PRO-50F, PRO-50-4F all three doors for PRO-77F, PRO-77-6F) is closed.

DOOR OPENING INDICATOR

1. If any door is opened, door opening indicator will be turned on.
2. In case that any door was opened around 30 seconds, warning beep sound will ring three (3) times.
3. In case of passing around 1 minute, warning beep sound will ring again five (5) times.
4. In case of passing around 5 minutes, the beep sound will ring continuously.
5. The beep sound will stop immediately if door is closed properly.

TROUBLESHOOTING

| SYMPTOMS | CAUSES | SOLUTIONS |
|---|---|--|
| Freezer is melting food | <ul style="list-style-type: none"> • The controller is set too high to contain food fresh. | <ul style="list-style-type: none"> • Turn the temperature dial to a warmer position. |
| The unit does not refrigerate at all | <ul style="list-style-type: none"> • There is a power connection failure problem. | <ul style="list-style-type: none"> • Check the power cord and plug in it correctly. |
| The unit does not refrigerate well | <ul style="list-style-type: none"> • The unit is in sunlight or near a heating device. • The unit contains hot food or too much food. • The unit door is opened too frequently or left open long. • The temp. dial is not on the correct position. • The condenser is clogged. | <ul style="list-style-type: none"> • Check the installation place. • Check the condition of stored food. • Check the position of the temp control dial. |
| There is a loud noise | <ul style="list-style-type: none"> • The floor is too weak or the leveling feet is set incorrectly. • The back-side of the unit is too close to the wall. • The tray is not in the correct position. | <ul style="list-style-type: none"> • Check the installation and adjust the tray position. |
| There are dew-drops on the unit exterior | <ul style="list-style-type: none"> • High-moisture air can produce dewdrops during rainy season. | <ul style="list-style-type: none"> • Wipe with a dry cloth. |
| There are dew-drops on the unit interior | <ul style="list-style-type: none"> • The door is opened too frequently or left open long. • Damp food is stored. | <ul style="list-style-type: none"> • Keep the door closed to remove dewdrops. |
| The door does not close tightly | <ul style="list-style-type: none"> • The door is bent. • The unit is a levelling failure. • The door gasket has come out. | <ul style="list-style-type: none"> • Level the unit again. • Reposition the gasket. |

The following points are not malfunctions:

- A water-flowing sound can be heard when the compressor stops. This is the sound of REFRIGERANT flowing.
- The compressor does not run against defrosting function.

STAINLESS STEEL EQUIPMENT CARE AND CLEANING

CAUTION : Do not use any steel wool, abrasive or chlorine based products to clean stainless steel surfaces.

Stainless Steel Opponents

There are three basic things which can break down your stainless steel's passivity layer and allow corrosion to rear its ugly head.

- 1) Scratches from wire brushes, scrapers, and steel pads are just a few examples of items that can be abrasive to stainless steel's surface.
- 2) Deposits left on your stainless steel can leave spots. You may have hard or soft water depending on what part of the country you live in. Hard water can leave spots. Hard water that is heated can leave deposits if left to sit too long. These deposits can cause the passive layer to break down and rust your stainless steel. All deposits left from food prep or service should be removed as soon as possible.
- 3) Chlorides are present in table salt, food, and water. Household and industrial cleaners are the worst type of chlorides to use.

8 step that can help prevent rust on stainless steel:

1. Using the correct cleaning tools

Use non-abrasive tools when cleaning your stainless steel products. The stainless steel's passive layer will not be harmed by soft cloths and plastic scouring pads. Step 2 tells you how to find the polishing marks.

2. Cleaning along the polish lines

Polishing lines or "grain" are visible on some stainless steels. Always scrub parallel to visible lines on some stainless steels. Use a plastic scouring pad or soft cloth when you cannot see the grain.

3. Use alkaline, alkaline chlorinated or non-chloride containing cleaners

While many traditional cleaners are loaded with chlorides, the industry is providing an ever increasing choice of non-chloride cleaners. If you are not sure of your cleaners chloride content contact your cleaner supplier. If they tell you that your present cleaner contains chlorides, ask if they have an alternative. Avoid cleaners containing quaternary salts as they can attack stainless steel, causing pitting and rusting.

4. Water Treatment

To reduce deposits, soften the hard water when possible. Installation of certain filters can remove corrosive and distasteful elements. Salts in a properly maintained water softener can be to your advantage. Contact a treatment specialist if you are not sure of the proper water treatment.

5. Maintaining the cleanliness of your food equipment

Use cleaners at recommended strength (alkaline, alkaline chlorinated or non-chloride). Avoid build-up of hard stains by cleaning frequently. When boiling water with your stainless steel equipment, the single most likely cause of damage is chlorides in the water. Heating may cleaners containing chlorides will have the same damaging effects.

6. Rinse

When using chlorinated cleaners you must rinse and wipe dry immediately. It is better to wipe standing cleaning agents and water as soon as possible. Allow the stainless steel equipment to air dry. Oxygen helps maintain the passivity film on stainless steel.

7. Hydrochloric acid (muriatic acid) should never be used on stainless steel.

8. Regularly restore/passivate stainless steel.

Recommended cleaners for certain situation/environments of stainless steel.

- A) Soap, ammonia and detergent medallion applied with a cloth or sponge can be used for routine cleaning.
- B) Arcal 20, Lac-O-Nu Ecoshine applied provides barrier film for fingerprints and smears.
- C) Cameo, Talc, Zud First Impression is applied by rubbing in the direction of the polished lines for stubborn stains and discoloring.
- D) Easy-off and De-Grease it oven aid are excellent for removals on all finishes for grease-fatty acids, blood and burnt-on foods.
- E) Any good commercial detergent can be applied with a sponge or cloth to remove grease and oil.
- F) Benefit, Super Sheen, Sheila Shine are good for restoration/passivation.