

HEAT PUMP OWNERS GUIDE

Fujitsu 12RLS, 12RLS2, and 12RLS3 Heat Pumps

Each unit comes with a Fujitsu Operating Manual which covers a wide range of the applications in detail. This is a summary of the most significant aspects.

Remote Control

The heat pump is controlled with a remote control, which is an infrared device. Point the remote like a flashlight at the inside unit when changing settings. The inside unit will beep and flash the green light to acknowledge commands. For recommended settings see – Using the 12RLS Remote Control.

Defrost Mode

The heat pump will produce the full rated 16,000 BTU/hour with outside air temperatures down to -20C (-5F). During damp cool weather the automatic defrost cycle will occur periodically. Heating stops and the inside unit flashes the green light every 10 seconds for 15 minutes. (12RLS early model `defrost` light comes on). Normal heating resumes at the end of the defrost operation. Do not turn unit off during the defrost operation.

Mould Prevention

When used as an air conditioner, moisture condenses in the inside unit. This water will drain outside as long as the drain tube is clear, but the inside unit coils can be left damp when the unit is turned off. To prevent the growth of mould, the coils should be dried by running the unit in heat mode or dry coil mode for 2 hours every month when the unit is being used continuously for air conditioning and as well when the unit is turned off for an extended period after being used for air conditioning. Needless to say it's also important to make sure the drain tube is clear and working properly.

Power Failures

Basic settings are backed up in a power failure. This means that when power is restored, the unit will come back in the mode it was in before the power failed. During the power failure settings cannot be changed. (The battery powered remote control can be adjusted but the unit will not receive the changes). The system timers are not backed up in a power failure and due to frequent power outages on Gabriola we do not recommend using the system timers.

SERVICE CHECKLIST

Maintenance of both the inside and outside units consists mainly of keeping the airways clear. Both units can be cleaned with a mild non-abrasive cleaner.

Outside Unit

The outside unit draws in air at the back and the intake area can become blocked with leaves and debris. A once per year inspection and cleaning is all most installations need.

- 1. Inspect for damage and clear airways (no vegetation or other blockages).**
- 2. Vacuum or clean intake the grill if it needs it.**
- 3. Confirm outdoor disconnect switch opens and closes both phases.**
- 4. Inspect for signs of refrigerant or oil leaks and get fixed if detected.**
- 5. If unit has been used as an air conditioner make sure condensate drain from inside unit is clear. Compressed air is a good way to do this.**

Inside Unit

- 1. Remove and clean the primary filters, and vacuum the filter areas every 3-4 months. (See below.) If house is dusty this should be done more than once a year.**
- 2. Discard secondary filters if they're more than 2 years old. (Unless you're using your heat pump as an air cleaner they're not needed. Replacements are special order).**
- 3. Inspect for mildew on coils with a flashlight. If the coils are moldy (unlikely if you haven't been using unit for air conditioning) contact: gabriolaben@gmail.com**

4. Replace remote batteries if more than 24 months old. Reset time and other settings when you do.
5. Close unit, restore power, test for normal and powerful operation.

HOW TO CLEAN FILTERS

1. Stop the unit with the remote control start/stop button. Wait until the unit is completely off. (Lights off, fan stopped, louvers closed). For 12RLS2 units wait until the front cover is in the down and closed position (takes about 90 seconds).
2. Open the front cover by gently pulling out on the sides near the bottom corners. The cover is hinged at the top. 12RLS2 units have a yellow door holder to keep the door open, the others stay open by friction. Remove the 2 large filters by lifting the tabs slightly and sliding them out. The easiest way to clean them is with a vacuum cleaner with a soft brush attachment. Replace the filters and close the front cover. Push gently on the cover at the bottom right, bottom center, and bottom left to engage the cover latches.
3. Restart the unit using the remote control start/stop button.

In addition to the 2 primary filters which filter 100% of the air, there are two smaller filters which filter about 10% of the air passing through the inside unit. One is a fine particles (pollen) filter and the other is a deodorizing filter. These have a life of roughly 1 year and should be removed when they have expired. If left in place they eventually become plugged and reduce the overall efficiency of the unit. The filters can be replaced but are expensive and most owners do not notice any difference with them removed.

SERVICING

Contact: gabriolaben@gmail.com