



Built Better to Last Longer

USER MANUAL
SOM SERIES
MUL-T-POISE
WARM AIR OIL FIRED FURNACE

Save These Instructions For Reference

ALL SOM SERIES FURNACES ARE AIR CONDITIONING READY!

NOTICE TO HOMEOWNER
THIS FURNACE SHALL BE INSTALLED BY A CERTIFIED INSTALLER AND
WHERE REQUIRED BY LAW, A LICENSED TECHNICIAN

NOTICE TO HOMEOWNER
IF YOUR SUMMERRAIRE SOM SERIES OIL FURNACE HAS BEEN INSTALLED USING THE
APPROVED SS2-C TJERNLUND SIDEWALL POWER VENTOR; IT IS YOUR
RESPONSIBILITY TO KEEP THE AREA AROUND THE VENT TERMINAL FREE OF ICE,
SNOW, AND DEBRIS

FOR SERVICE CALL:

INSTALLATION INFORMATION	
_____	_____
Installing Contractor	Telephone Number
_____	_____
Unit Model Number	Unit Serial Number

Installation Date	

Summerraire Mfg.
Peterborough, Ontario
K9J 7B1

OPERATING INSTRUCTIONS

CAUTION: NEVER BURN GARBAGE, REFUSE OR PAPER IN THE HEATING UNIT.
NEVER LEAVE COMBUSTIBLE OR OTHER MATERIALS AROUND OR NEAR THE FURNACE.

IDENTIFY THE LOCATION OF YOUR BURNER / FURNACE POWER SWITCH

OIL BURNER OPERATING INSTRUCTIONS

- Use No 2 furnace oil ***ONLY***
- Do not use gasoline, crankcase oil, or any oil containing gasoline.
- Do not attempt to start the burner if excess oil has accumulated, when the furnace is full of vapor, or if the combustion chamber is hot.
- Press the burner relay reset button **ONLY ONCE**; if the burner fails to start, call an Oil Burner Technician.
- If the oil burner is to be shut off for any period of time, shut the oil valve OFF at the oil tank.
- Do not adjust or tamper with the furnace or any of the controls
- Do not burn garbage or paper in this unit.
- Never leave paper, rags, or other combustibles around the furnace.
- Only qualified, or where required by law, a licensed technician shall set – up this unit and adjust controls.
- **DO NOT START THE OIL BURNER UNLESS THE BLOWER DOOR IS SECURED IN PLACE.**

TO TURN THE BURNER OFF

- Turn the main oil burner switch to “ OFF “
- Set the thermostat as far below room temperature as possible.

IF BURNER IS TO BE SHUT OFF FOR AN EXTENDED PERIOD.

- Turn main oil burner switch to “OFF”.
- Close all oil supply valves.
- The heating system should be checked and cleaned if necessary.

RESTARTING BURNER AFTER EXTENDED SHUT DOWN.

The complete oil burner should be checked and serviced by a qualified technician.

- Check oil pump strainer
- Replace oil filter cartridge
- Check electrodes
- Oil burner motor (see lubrication section)
- Restart burner by following instructions in; “ STARTING THE OIL BURNER “ section.
- If your furnace has been shut off for an extended period – contact your qualified service technician for start - up

BURNER FAILS TO OPERATE

Always call a qualified technician.

The trouble may be :

- Raise your thermostat to 5 ° C (10 ° F) above present room temperature
- Make sure your “ Oil Burner “ power switch is in the “ ON “ position
- If you hear a hum from the oil burner, and the motor has not started, press the reset button on the burner motor once only.
- Blown fuse / “ tripped “ breaker in electrical panel
- Thermostat may be set below room temperature.
- Burner relay (combustion control) may have to be “ reset “ (press reset once only)
- Oil valve may be closed.
- Oil supply may be too low.
- Blocked flue sensor “ tripped “
- If the oil burner fails to start or runs for only a few seconds, call a qualified service technician.

FAN CONTROL – INFITEC Part No, DFS530S180

The Fan Control used on the Summeraire SOM series of furnaces is controlled by a “Timed Relay”. After Burner Ignition, the blower will start after 30 seconds. The blower turns “Off” or returns to “Constant Speed” 3 minutes after the Oil Burner shuts OFF. There is **NO ADJUSTMENT** on the “Timed Relay”

DUAL AIR OPERATION

This furnace is equipped with a dual (two) speed blower system which allows partial air distribution at all times. When the thermostat calls for Heat, the Oil Burner starts and the HIGH speed quickly distributes warm air throughout the home. When the HIGH SPEED stops, the “LOW” speed continues operating, circulating the air to even the temperature throughout the house. If the “LOW” speed feature is not required / desired, operate the small “rocker” switch located on the power junction box.

MAINTENANCE

OIL FURNACE ANNUAL SERVICE

The oil burner and furnace should be thoroughly cleaned and serviced annually by a qualified service technician, and where required by law, a licensed technician.

CAUTION :

Do not use any commercially available soot remover.

Use extreme caution when servicing since the combustion chamber is fragile.

Routine cleaning of the flue passages does not require cleaning the combustion chamber.

If for some reason, it is necessary to work in the area of the combustion chamber, do not touch or alter the chamber position.

Before cleaning, shut off electrical power supply to the furnace.

- Note :** *Always keep oil supply valve shut off if burner is shut down for an extended period of time.*
- The nozzle should be replaced annually – handle nozzle with care so that the inside surface tip is not scratched.
- The electrodes should be cleaned and adjusted. (see oil burner manual supplied with the oil burner).

LUBRICATION

Apply 2 – 3 drops of SAE 20 – 30 Non Detergent oil ONLY to the oil port(s) located at either end of the burner motor.

Apply 2 – 3 drops of SAE 20 – 30 Non Detergent oil ONLY to the oil ports located at either end of the blower motor.

DO NOT OIL THE FAN BEARINGS !

CLEANOUTS

SOM SERIES

Remove smoke pipe from furnace and chimney.

Remove any soot that may be present.

Remove cleanout panel from front of unit

Remove the centre cleanout panel and the round “disc type” cleanout covers located on either side of the centre cleanout panel.

Remove the baffles in the secondary heat exchanger tubes.

Loosen soot from the tubes with a cleaning tool or brush.

Remove all loose soot with a vacuum cleaner suitable for this purpose. Inspect passages to check for missed areas. When reinstalling the cleanout cap, make sure to replace the gasket.

Reassemble heat exchange cleanout covers and replace gaskets.

NOTE: WE RECOMMEND THAT A QUALIFIED MECHANIC OR WHERE REQUIRED BY LAW, A LICENCED MECHANIC **ONLY** SHOULD PERFORM ALL SERVICE AND CLEANING OF YOUR SUMMERAIRE FURNACE !

AIR FILTER

This furnace should never be operated without filters.

A DIRTY AIR FILTER CAUSES INEFFICIENCY AND HIGHER OPERATING COSTS

Clean or replace filters each heating season, or as required.

Filter specifications for the air filter installed in your Summerraire oil fired warm air furnace, are listed below.

DO NOT SUBSTITUTE !

Note: Changing the type or size of filter used in your Summerraire furnace can seriously affect the operation of the furnace!

AIR FILTER SPECIFICATIONS

Filter size: SOM75-16” X 20” X 1” – CSA or ULC Certified/Approved - Type: Throw-away/disposable

SOM95-16” X 20” X 1” – CSA or ULC Certified/Approved - Type: Throw-away/disposable

SOM125-20“ X 25” X 1” – CSA or ULC Certified/Approved - Type:Through-away/disposable

USE OF FILTERS OTHER THAN THOSE SPECIFIED ABOVE, CAN CAUSE DANGEROUS ELEVATION OF FURNACE TEMPERATURES – THIS IS AN UNSAFE CONDITION !

DO NOT USE / INSTALL PLEATED TYPE AIR FILTERS IN THIS FURNACE !

WARNING: Your furnace requires Combustion Air

DO NOT close off furnace room or enclose furnace - this will starve to furnace oil burner for air necessary for combustion and could result in a dangerous situation.

NOTE:

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