

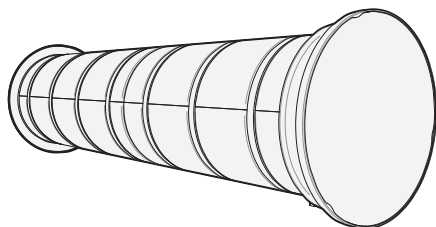
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SRC1 Controller

TP590

Single Room Heat Recovery Ventilation Controller Unit



SR700 SRHRV Fan

TP600

Single Room Heat Recovery Ventilation Fan Unit

Product User Manual






 **Titon**[®]
ventilation systems

Warnings, Safety Information and Guidance

Important Information

Read these instructions fully before the installation of this appliance

1. Installation of the appliance and accessories must be carried out by a qualified and suitable competent person and be carried out in clean, dry conditions where dust and humidity are at minimal levels.
2. This manual covers the installation of the Single Room Heat Recovery Ventilation (SRHRV) Fan Unit and SRC1 Controller Unit.
3. All wiring must conform to current I.E.E. Wiring Regulations and all applicable standards and Building Regulations.
4. Inspect the appliance. If damaged, it must be replaced by the manufacturer or their service agent in order to avoid a hazard.
5. The appliance must be connected to a local all pole isolation switch with a contact separation of at least 3mm.
6. The SRC1 Controller Unit is suitable for 220-240V ~ 50-60Hz single phase with a fuse rating of 3A.
7. Control & communication cable - Titon recommends the use of unshielded CAT5e cable to comply with EMC directives.
8. Control & communication cables should not be placed within 50mm or on the same metal cable tray as any mains lighting or power cables.
9. The unit must be stored in a clean and dry environment.
10. Do not install the appliance in areas where the following may be present or occur:
 - o Excessive moisture, oil or grease laden atmosphere;
 - o Corrosive or flammable gases, liquids or vapours;
 - o Ambient temperatures above 40°C or below -5°C;
 - o Humidity levels above 90%;
 - o A wet environment.

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11. The appliance is not suitable for installation to the exterior of the dwelling.
 12. This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children should be supervised to ensure that they do not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
 13. Ensure that external grilles are located away from any flue outlet, in accordance with relevant Building Regulations.
 14. The unit must not be connected to a tumble dryer or a cooker hood.
 -  15. Precautions must be taken to avoid the back-flow of gases into the room from an open flue appliance. 
 16. Ensure ducting is free from debris and blockages before switching on the units.
 17. Before cleaning, power down the ventilation system and wait sufficient time for the Fans to stop rotating before starting cleaning.

Contents

Warnings, Safety Information and Guidance

Important Information	2
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Product Information

Dimensions & Component Identification	6
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Controller Operation

Introduction	8
Heat Recovery Mode	9
Cross Ventilation Mode	9
Fan Speeds	9
Timed Intensive Ventilation	9
Sleep Mode	9
Sensor Operation	10
Filter Timer	10
Other Warnings	10
Sensor Options	10

Maintenance

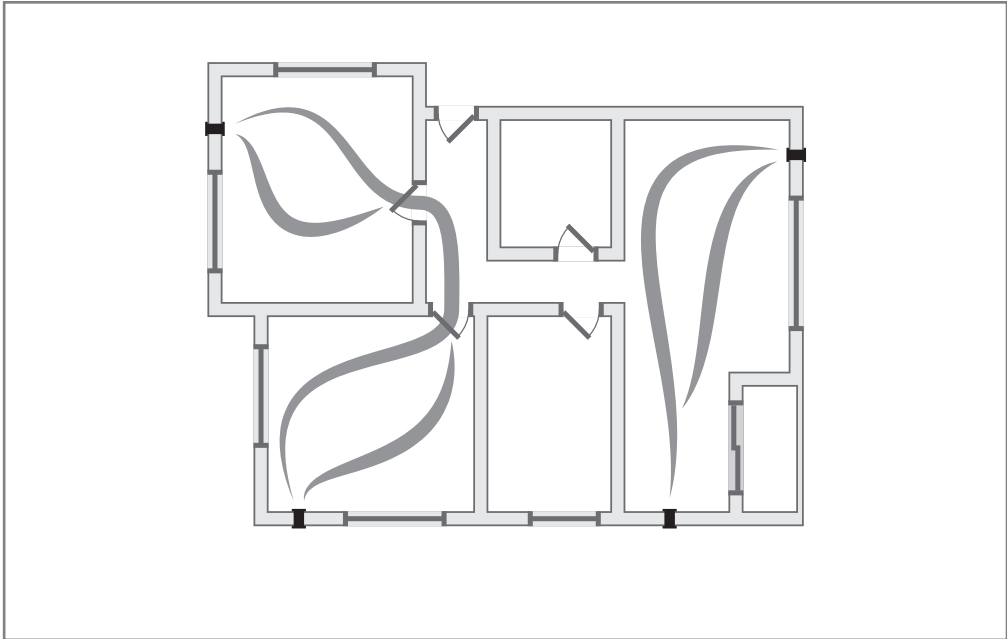
Cleaning	11
SRHRV Fan Unit	11
Diffuser	11
Wiring Aperture Cover	11
Air Filter	11
Heat Cells	11
Fan	12
Foam Fly Screen	12
Vent Tube	12
Reassembly after Cleaning	12
Replacement Filters	12
SRC1 Controller Unit	12
Cleaning	12
Notes	13
Service Record	14



When this document is viewed as a PDF the headings & sub headings on this page are hyper links to the content. Additionally the page numbers in this document are hyper links back to this contents page.

Product Information

Designed to be used in pairs and in conjunction with a SRC1 the SR700s create a balanced decentralised ventilation system with heat recovery. As part of a system multiple units provide continual air circulation for your home, extracting stale moist air and replacing it with warmed fresh air from outside.



SRHRV System Layout

The system provides an easily installed and maintainable solution for removing internal condensation and eliminating mould growth within the home. Unlike regular extractor fans that waste 100% of heat that passes through them from the home, the SR700 system will recover up to 94%, based on in house testing, of wasted heat. When used as part of a whole house system it can be used to recover heat or provide continuous fresh air without heat recovery.

Packaging Contents

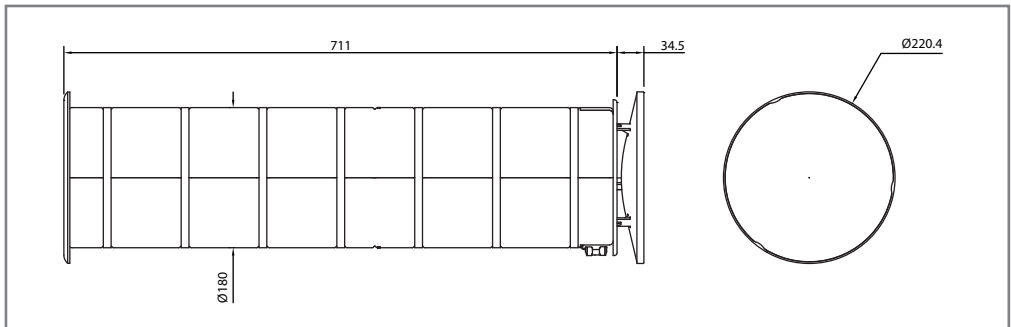
Inspect the units when taking delivery. Check the units for damage and that all accessories have been supplied.

SRC1 Controller Unit

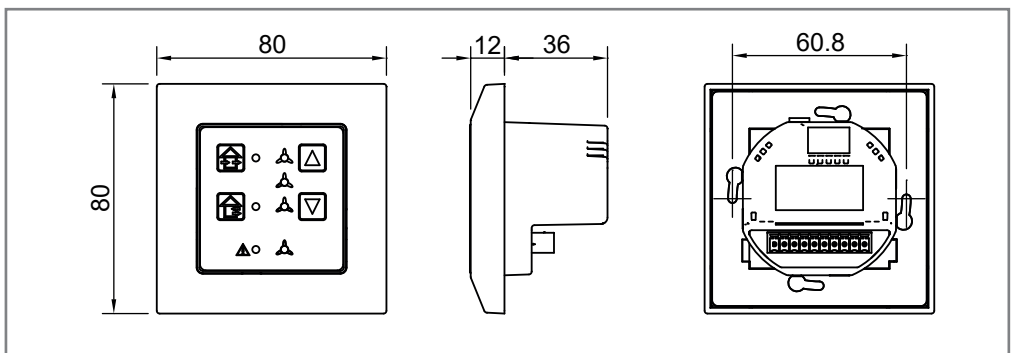
Package supplied with:

- SRC1 Controller Unit x 1;
- Product User Manual x 1.
- Install / Commissioning leaflet x 1.

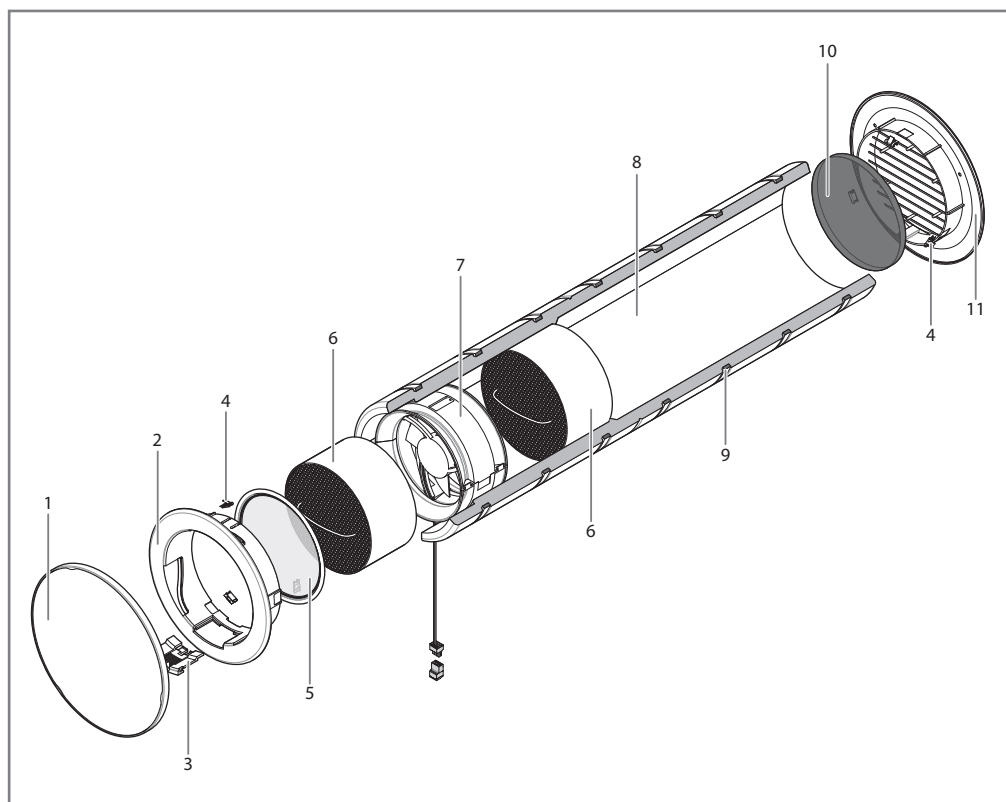
Dimensions & Component Identification



Fan Unit



Controller Unit



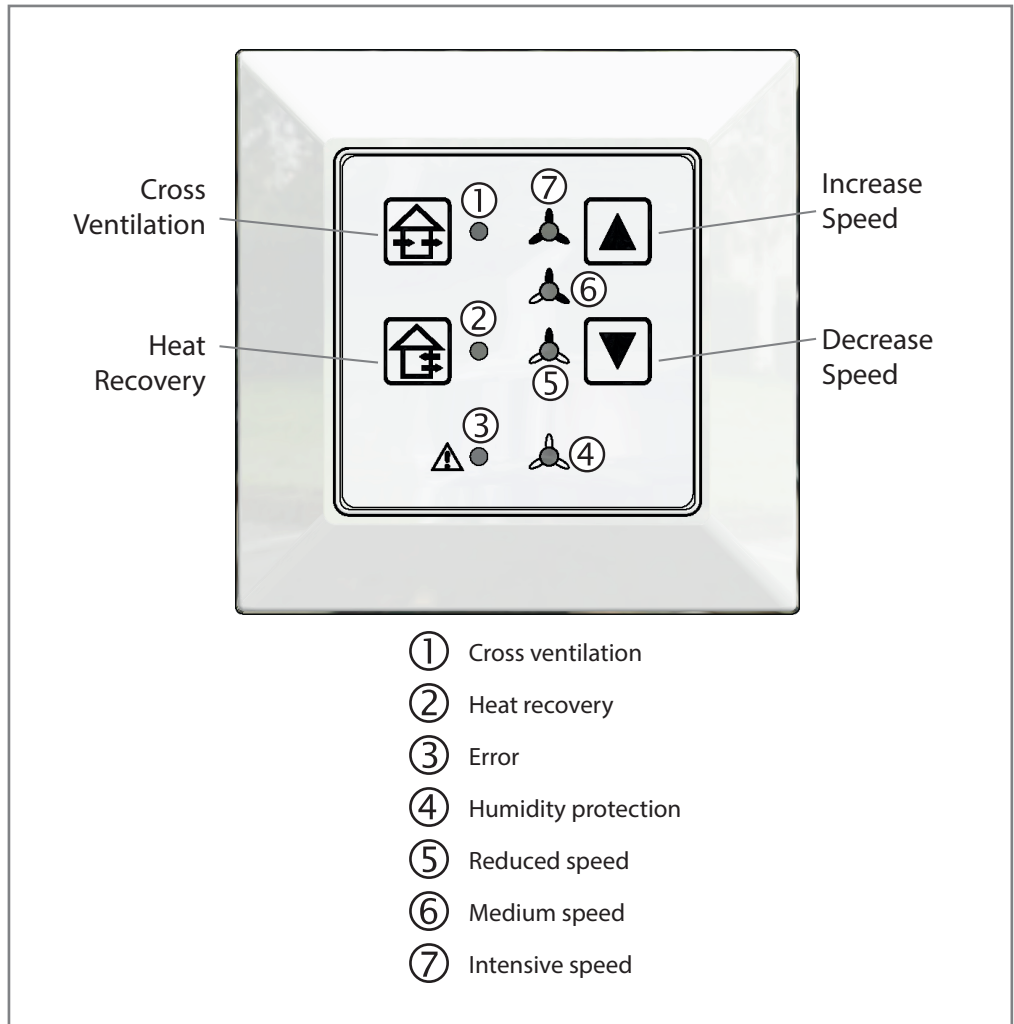
SRHRV Fan Unit -Components

No.	Component
1	Diffuser*
2	Bezel
3	Wiring Aperture Cover
4	Spring Steel Clip
5	Air Filter
6	Heat Cell

No.	Component
7	Fan with Connectors
8	Vent Tube
9	Foam Strip Seal positions (not supplied)
10	Foam Fly Screen
11	External Louvre

*Front face may have protective film. If present, please remove.

Controller Operation



Controller

Introduction

The controller has 2 modes of operation, Heat Recovery- which is the default and Cross Ventilation. These are selected via the buttons on the left hand side of the controller. LEDs 1 and 2 indicate the currently selected mode.

Heat Recovery Mode

In Heat Recovery Mode the Supply and Extract fans change directions at regular intervals, warming the Heat Cell when extracting from the property and recovering the stored heat when supplying air to the property. This is the default operating mode.

Cross Ventilation Mode

In warm weather when heat recovery is not required Cross Ventilation mode simply supplies air to one side of the property and extracts from the other to create a cooling flow of air. By default Cross Ventilation is continuous, but it may have a timer configured by the installer (4, 8, 12 or 24 Hours). If a timer has been selected this will be indicated by LED 1 slowly flashing and once the timer has expired the controller will return to Heat Recovery mode. A second press of the Cross Ventilation button switches from timer to continuous.

Fan Speeds

By default the fans run at Nominal level which is indicated by LED 6. For normal use there are 2 other speeds, Intensive and Reduced which can be selected using the up and down arrows on the right hand side of the controller. LEDs 5 and 7 will indicate when these speeds have been selected. Additionally there is another speed – Humidity Protection which is below Reduced Speed and is indicated by LED 4 being dimly lit. It is only recommended to use this level when the property is unoccupied. In some installations the fans can be switched off by pressing the down arrow whilst at Humidity Protection Speed; all LEDs are extinguished except LED 4 which flashes slowly. This is not a default setting.

Timed Intensive Ventilation

The up and down arrows have additional functions; pressing and holding the up arrow for 2 seconds puts the unit into Intensive ventilation for a timed period which by default is 1 hour. LED 7 flashes to indicate the unit is running on the timer and once the timer has expired the previously selected level is returned to. Timed Intensive ventilation can be cancelled by pressing the down arrow.

Sleep Mode

Pressing and holding the down arrow for 2 seconds puts the fans into Sleep Mode; all fans will stop for a period which by default is 1 hour. This is indicated by LED 4 slowly flashing; after the timer has expired the fans restart at the previously selected level. Sleep Mode can be cancelled by pressing the up arrow. In some installations Sleep Mode may set the fans to Humidity Protection rather than stopping them. Sleep Mode can also be a Switched External Digital Input if one has been installed and configured. Operating the switch puts the unit into Sleep Mode; a second switch operation before the timer has expired brings the controller out of Sleep Mode.

Sensor Operation

If room sensors have been installed these will control the fan level depending on the environmental parameter being measured. If the fan speed is being controlled by the sensor this will be indicated by LEDs 5, 6 or 7 flashing quickly. The up arrow can be used to increase the ventilation rate above the sensor determined level. The down arrow can be used to temporary override the sensor for 1 hour. After the hour has elapsed the fans will return to a level determined by the sensor readings.

Filter Timer

After 6 months of operation LED 3 – the warning Led will be constantly illuminated to indicate the filters in the fan units require cleaning or replacing. Once the filters have been cleaned/replaced the timer can be reset by pressing and holding down the up and down arrows together for 5 seconds. LEDs 5, 6 and 7 will flash 3 times to indicate the timer has been reset and the warning LED will be cleared.

Other Warnings

LED 3 is also used to indicate errors which may occur with the controller. The number of times the LED flashes followed by a pause indicates the type of error, these are detailed below:

Number	Error	Error LED Indication	Recommended Action
1	Filter Timer expired	LED ON	Replace/Clean Filters & Reset Timer.
2	Self test failed	2 x FLASH - PAUSE	Contact the installer.
3	Sensor Communication Error	3 x FLASH - PAUSE	Check wiring to the sensor(s), contact the installer.
4	Controller temperature too high	4 x FLASH - PAUSE	Contact the installer.

Sensor Options

Sensor type	Surface mount	Flush mount
Relative humidity (RH) sensor	TP610	TP614
Carbon dioxide (CO ₂) sensor	TP611	TP615
Combined relative humidity (RH) & Carbon dioxide (CO ₂) sensor	TP612	TP616
Volatile organic compound (VOC)/ Air quality sensor	TP613	TP617

Cleaning

Routine cleaning and filter changes are all that are normally required to keep the SRHRV System working efficiently.

Before cleaning ,power down the ventilation system and wait sufficient time for the Fans to stop rotating before starting cleaning.

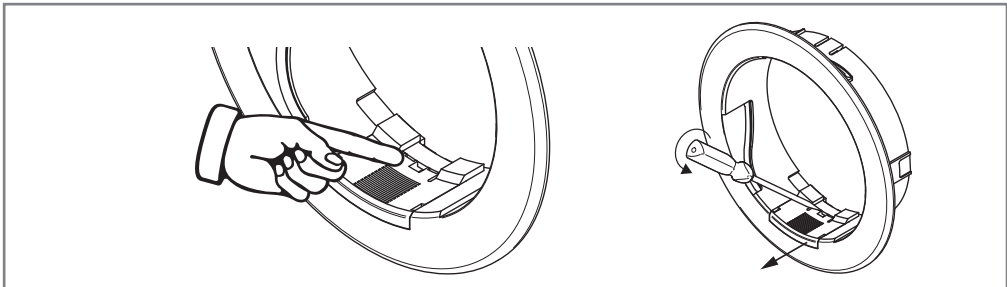
SRHRV Fan Unit

Diffuser

Remove Diffuser before cleaning with a soft cloth damped with mild soapy water. To remove the Bezel, un-clip the three legs that hold the Diffuser to the Bezel.

Wiring Aperture Cover

Remove Wiring Aperture Cover before cleaning. To remove the Wiring Aperture Cover first remove the Diffuser then using a screwdriver, place the tip in the indicated aperture and gently rotate.



Air Filter

Inspect every 6-12 months depending on environmental conditions. Remove loose debris using a dry soft brush and a vacuum cleaner; do not use water. For replacement filters see Replacement Filter section. Used filters should be disposed of as household waste.

Heat Cells

Remove the Heat Cell prior to cleaning. To access the Internal Heat Cell first remove the Diffuser, Wiring Aperture Cover, Air Filter. To remove the Heat Cells use the wire handle and pull Heat Cell out of the Vent Tube. Second Heat Cell can be pulled out in the same way after removing the Fan. Heat Cells should be cleaned using a dry soft brush and a vacuum cleaner.

Fan

To remove the Fan carefully slide the Fan out of the Vent Tube, do not pull on the blades or wire. Disconnect the Communication Cable before removing Fan. Fan should only be cleaned with a soft dry brush.

Foam Fly Screen

Inspect every 6-12 months depending on environmental conditions. Remove loose debris as required by rinsing with warm water. Ensure parts are fully dried before refitting. For replacement filters see Replacement Filter section. Used filters should be disposed of as household waste.

Vent Tube

Wipe down the interior of the Vent Tube with a soft cloth dampened with mild soapy water.

Reassembly after Cleaning

Ensure that all components are thoroughly dry before reassembly. Refer to diagram on page 7. Note When refitting Fan into unit Fan Label must face into the dwelling.

Replacement Filters

Description	Part Number
Air Filter G3	XP2010311
Foam Fly Screen	XP2010320

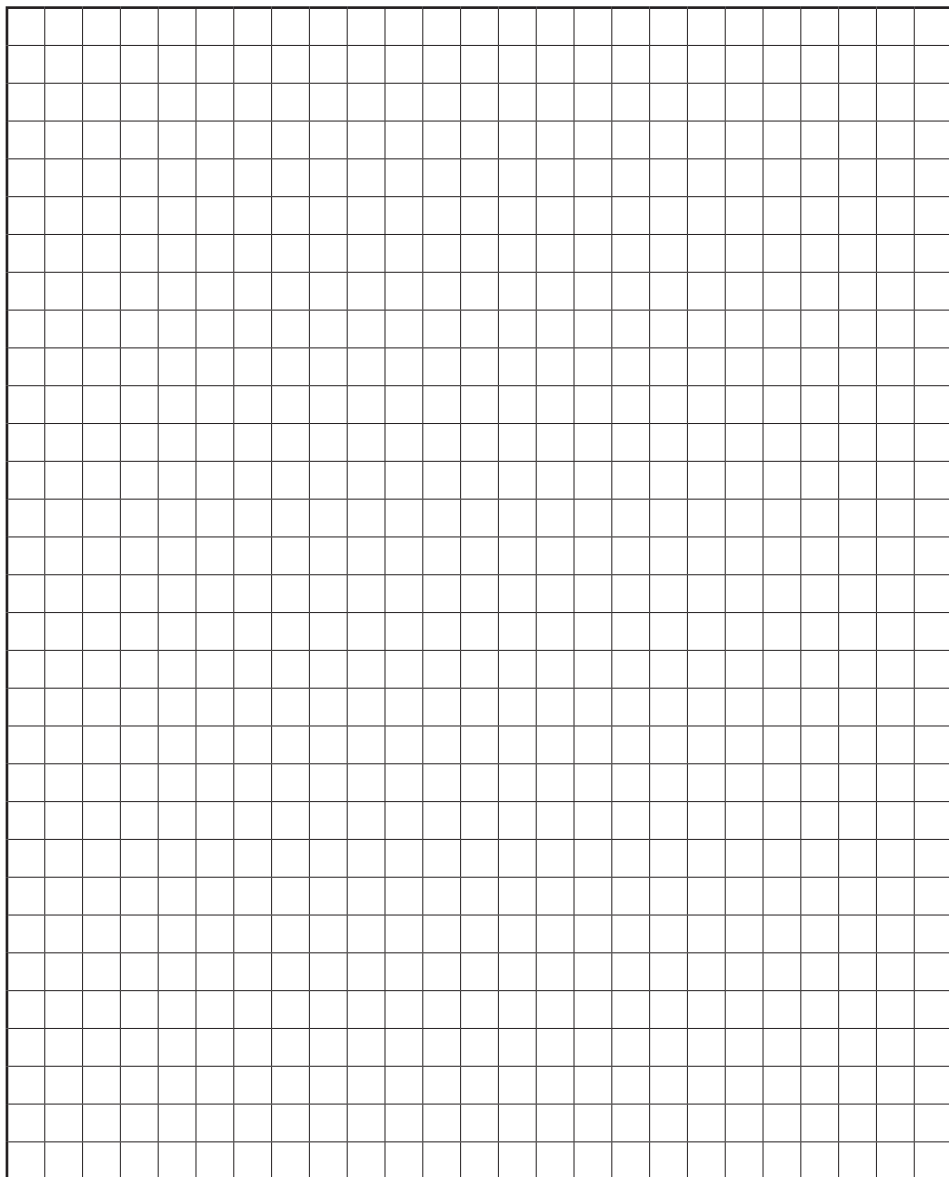
Replacement filters are available from Titon Sales

SRC1 Controller Unit

Cleaning

Wipe down the exterior with a soft cloth dampened with mild soapy water.

Notes



Service Record

Serviced By	Company	Date	Notes



Serviced By	Company	Date	Notes



In the event of any queries please contact the system installer.
Ensure this booklet is passed to the householder once
installation & commissioning of the ventilation system is
complete.

This Product Manual must be kept in the Home Information Pack
and used as a service record.



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