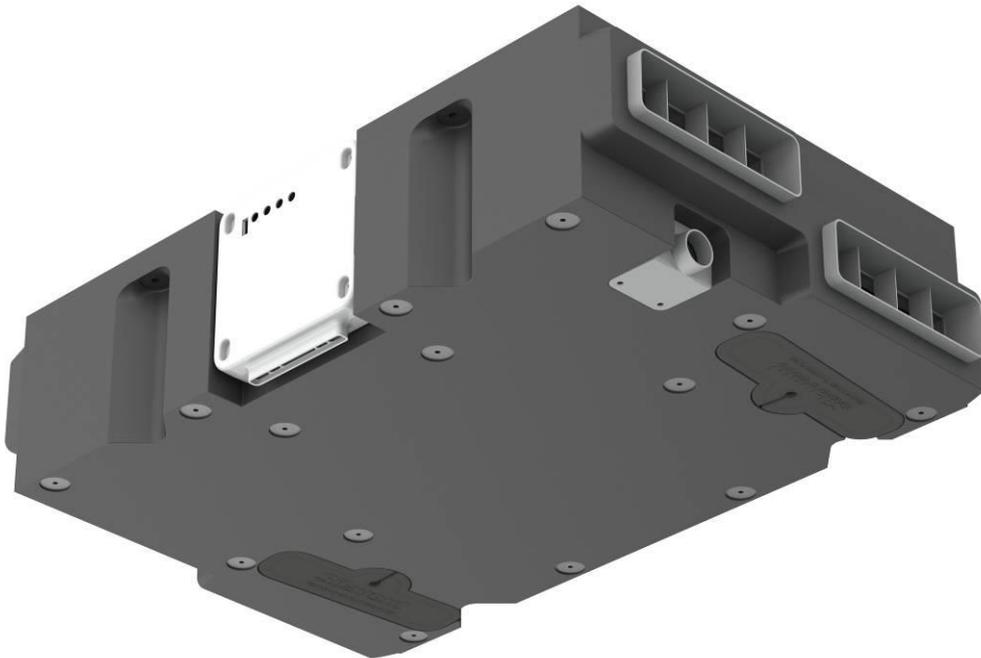# Silavent AQH Range

Mechanical Ventilation with Heat Recovery appliances

Householder Instructions

These instructions must be given to the householder

DO NOT SWITCH OFF THE UNIT – it is designed to run continuously. If the unit is switched off, indoor pollutants and moisture levels may increase which could endanger your health or damage your home.

It is important to follow the advice in this manual and correctly maintain the system to ensure a healthy indoor environment.

General Warnings & Safety Information

IMPORTANT!

PLEASE READ THESE INSTRUCTIONS CAREFULLY

1. Do not use this appliance in areas where the following may be present or occur:

- Excessive oil or a grease laden atmosphere
- Corrosive or flammable gases, liquids or vapours
- Be subject to direct water spray
- Ambient temperatures higher than 50°C and lower than -25°C
- Possible obstructions that may hinder access or removal of the unit

2. This fan 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 shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

General

Your **Silavent HRX-aQ** appliance is a key part of a whole house ventilation system specifically designed to improve indoor air quality in dwellings. The system is designed to provide measured amounts of filtered, fresh air to living areas while constantly removing polluted, stale air from bathing, cooking and washing areas at the same gentle rate. Any available heat in the outgoing stale air is recovered by a built-in heat exchanger and used to pre-warm the fresh supply air.

A programmable user interface has been provided to help maintain a comfortable indoor environment which includes the following features:

- Time and date functions
- Filter check reminder
- Fingertip fan control; Low, Boost, Max
- Automatic, summer heat exchanger-bypass operation
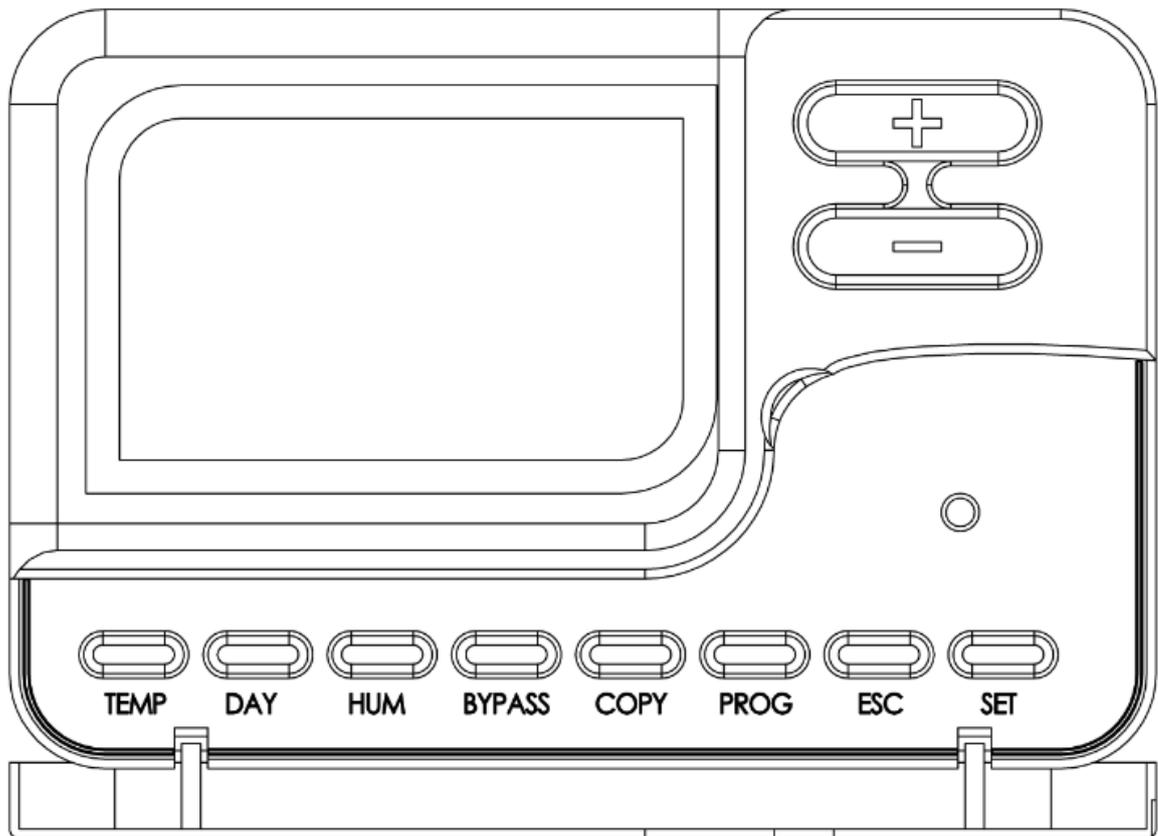- Automatic humidity level boost-switching

Your system may also have been wired to trigger Boost from a lighting circuit or a number of lighting circuits.

The two filters in the appliance ensure that the fresh supply air is clean as it enters the home. Additionally, the stale extract air is filtered to protect the heat exchanger from unwanted contamination. **These filters have to be cleaned regularly,** depending on the levels of pollution. The filters should be replaced when they start to show visible signs of wear.

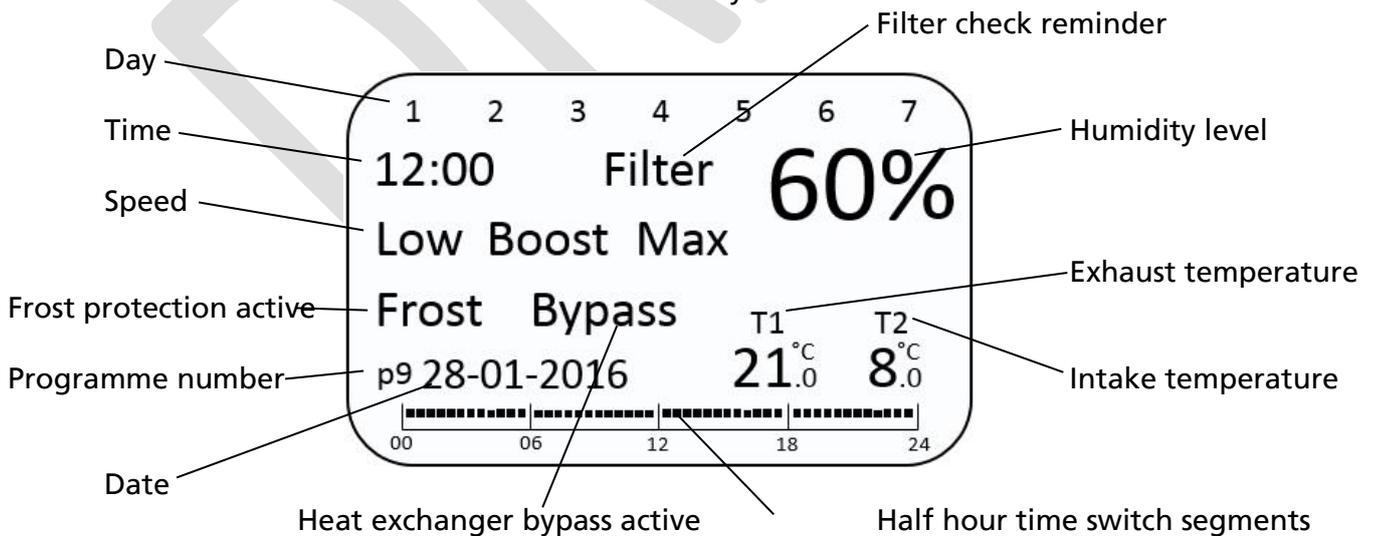AQH200-B and AQH240-B models are fitted with a fully automatic heat exchanger bypass mechanism. The bypass will operate when the indoor target temperature reaches a pre-set value. Using the digital user-interface, the trigger temperature for this operation can be set between +15°C and 25°C.

Further details regarding your system are contained in the full installation manual which should accompany this abridged householder guide.

Digital user-interface

Screen layout

- Day
- Time
- Speed
- Frost protection active
- Programme number
- Date
- Filter check reminder
- Humidity level
- Exhaust temperature
- Intake temperature
- Heat exchanger bypass active
- Half hour time switch segments

1 2 3 4 5 6 7
12:00   Filter   **60%**
Low Boost Max
Frost   Bypass   T1   T2
p9 28-01-2016   **21**°C **8**°C
                     .0   .0
00   06   12   18   24

Further details regarding your digital user-interface are contained in the full installation manual which should accompany this abridged householder guide.

Speed control

Pressing + or – will allow you to manually select the fan speed. Its normal setting should be **Low**.

After selecting **Boost** it will remain at this speed for one hour and will then return to **Low**.

If **Max** is selected, it will remain at this speed indefinitely or until **Low** or **Boost** are selected.

Filter reminder

The word 'Filter' will appear on the home screen after the set time has elapsed - when this occurs, clean the filters (see page 6).

To reset the filter elapsed time reminder following cleaning, press and hold "**SET**" for 5 seconds.

Time and date setting (this action will be required following a power cut)

From the home screen;

Press "**DAY**". The 'Hour' text will flash.

Use the "**+**" and "**-**" buttons to set the hour.

Press "**DAY**". The 'Minute' text will flash.

Use the "**+**" and "**-**" buttons to set the minute.

Press "**DAY**". The day will flash.

Use the "**+**" and "**-**" buttons to set the day.

Press "**DAY**". The month will flash.

Use the "**+**" and "**-**" buttons to set the month.

Press "**DAY**". The year will flash.

Use the "**+**" and "**-**" buttons to set the year.

Press "**DAY**". 12/24 will flash.

Use the "**+**" and "**-**" buttons to set 12 or 24 hour clock format.

Press "**DAY**" to confirm and return to home screen.

Setting the automatic heat exchanger bypass operating temperature

From the home screen, press "**TEMP**" as required to move to menu 'T3'.

*T3 is the target indoor temperature setting at which the heat exchanger bypass mechanism operates to allow the extract air to bypass the heat exchanger and is adjustable between +15°C and +25°C (**Factory default 20°C**).*

Use the "**+**" or "**-**" buttons to set the operating temperature in steps of 1°C.

Press "**SET**" to record the settings and return to the home screen or "**ESC**" to discard the settings and return to the home screen.
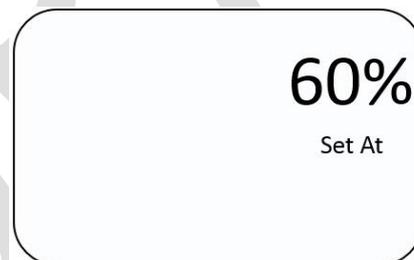
> **t3**
> Set At
>
> 21$_{.0}^{\,°C}$

Setting the humidity activated boost switching level (% RH)

From the home screen, press "**HUM**" to move to the humidity (% RH) activated boost setting (**Factory default 60% RH – recommended**).

Use the "**+**" or "**-**" buttons to set the humidity switching level in steps of 1% RH (range 30-85% RH).

Press "**SET**" to record or "**ESC**" to discard the settings and return to the home screen.

> **60%**
> Set At

Selecting the heat exchanger bypass timed programmes

From the home screen, press "**PROG**" (The programme number will flash in the bottom left hand corner; P1 to P9).

Use the "**+**" and "**-**" buttons to view the selected programme number (**Factory default is P9**).

Press "**SET**" to select the desired programme.

Details of the summer bypass programmes are shown in the diagram on page 7.

Note: Each square has a time value of 30 minutes. Black squares indicate a time period where the unit is in automatic bypass mode i.e. the unit will monitor the temperatures and open or close the bypass accordingly. White squares (blank spaces) indicate a time block where the heat exchanger bypass will be permanently set to operate and divert air around the heat exchanger regardless of the measured and set temperatures.

Creating bespoke heat exchanger bypass timed programmes

Each of the programmes can be *edited* to create bespoke programmes as follows:

Press "**PROG**".

Use the "**+**" and "**-**" buttons to select the programme number (**Factory default is P9**).

Press "**PROG**". The programme number will stop flashing and the first block on the timeline at the bottom of the screen will begin to flash.

Select the day to be edited by pressing "**DAY**" until the correct day is displayed along the top of the screen (1 – Monday, 2 – Tuesday etc.).

To add a 30 minute temperature controlled bypass block (a black square) to the timeline, ensure that the word "**BYPASS**" is displayed on the screen by pressing "**BYPASS**".

Press the "**+**" and "**-**" buttons to move along the timeline at the bottom of the screen; a block will be *added* to each position.

To remove a block, remove the word "**BYPASS**" from the screen by pressing "**BYPASS**" and press the "**+**" and "**-**" buttons to move along the timeline at the bottom of the screen; a block will be *removed* from each position.

Daily 'timeline patterns' can be *copied* to another day or multiple days to avoid programming each day individually.

From the home screen press "**COPY**" then select the day to copy by pressing "**PROG**" (the day number will be displayed) and then the day to copy-to by pressing the "**+**" and "**-**" buttons (the day number will flash). When the two correct days have been selected, press "**COPY**" and the timeline pattern will copy across.

Press "**SET**" to record.

Filter maintenance

The two filters should be cleaned on a regular basis; the exact frequency will be determined by individual living conditions.

The word 'Filter' will appear on the home screen of the digital user-interface after the set time has elapsed - when this occurs, clean the filters – see page 4 for resetting details.

To remove the two filters, pull out the two caps from the front of the appliance and gently slide out the filters in their carrier frames.

Lightly vacuum the filters to remove surface debris and then gently wash through in warm soapy water. Ensure that the filters are completely dry before refitting. **Important:** do not dry on a radiator or use excessive heat as this may distort the carrier frames.

Faults

If the digital display shows 'Fault' and either 'Fan 1' or 'Fan 2', there is a potential fault with one of the fans. If the digital display shows 'Fault' only, the external system inhibit may have been activated. In either case, in the first instance, contact your building services management team.

Polypipe

P1 — Night cooling

Mon / Tue / Wed / Thu / Fri / Sat / Sun

Hours: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

Active: 06:00 – 22:00

P2 — Extended night cooling 1

Mon / Tue / Wed / Thu / Fri / Sat / Sun

Active: 09:00 – 21:30

P3 — Extended night cooling 2

Mon / Tue / Wed / Thu / Fri / Sat / Sun

Active: 09:00 – 19:30

P4 — Reduced heat recovery 1

Mon / Tue / Wed / Thu / Fri / Sat / Sun

Active: 00:00 – 06:00, 10:00 – 18:00, 22:00 – 24:00

P5 — Reduced heat recovery 2

Mon / Tue / Wed / Thu / Fri / Sat / Sun

Active: 00:00 – 06:30 (Mon–Fri), 10:00 – 16:30 (varies), 21:00 – 24:00

P6 — Daytime bypass

Mon / Tue / Wed / Thu / Fri / Sat / Sun

Active: 00:00 – 08:30, 21:00 – 24:00

P7 — Out of hours cooling (shop, office)

Mon / Tue / Wed / Thu / Fri / Sat / Sun

Active: 07:00 – 18:30

P8 — Constant bypass

Mon / Tue / Wed / Thu / Fri / Sat / Sun

(no active periods shown)

P9 — Temperature controlled bypass

Mon / Tue / Wed / Thu / Fri / Sat / Sun

Active: 00:00 – 24:00

Polypipe

System installer name and address:

Serial number of appliance:

Date of installation:

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