

## TECHNICAL DATA SHEET

### HeatSava | Intelligent Single Room Heat Recovery Unit

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#### KEY FEATURES

- ✓ Long life, low watt ball bearing DC motors
- ✓ Intellitrac® humidity controls
- ✓ Tubular heat recovery cell
- ✓ High thermal efficiency
- ✓ Ingenious cleaning and maintenance features
- ✓ Cell available in 8 different sizes
- ✓ Lowest life-cycle costs
- ✓ Automatic summer mode (as standard)
- ✓ Frost protection function (as standard)
- ✓ Time elapse meter
- ✓ Pullcord (as standard)
- ✓ Optional wireless controller
- ✓ 5 year warranty

#### PRODUCT

The heatSava Single Room Heat Recovery Unit shall run continuously on background trickle, designed to comply with the Building Regulations Approved Document Part F: Ventilation. The energy-efficient unit shall be supplied in a 230V version with the facility to convert to SELV on site using the power supply unit included.

#### APPLICATION SUITABILITY

The heatSava 100 shall be suitable for through-the-wall new installations in bathrooms or WC's and shall also be designed to directly replace 100mm existing traditional centrifugal and axial extract fan installations. The heatSava 150 shall be suitable for through-the-wall new installations in kitchens, utility rooms, bathrooms WC's and shall also be designed to directly replace 150mm existing centrifugal and axial extract fan installations.

#### ACCREDITATION

- Conforms to the requirements of the UK Building Regulations and the Technical Standards for Ventilation
- Conforms to requirements of the EC council directives relating to Electromagnetic Compatibility and Electrical Safety (LDV and EMC).
- CE & UKCA Marked

#### CONTROLS

The heatSava shall run continuously on trickle providing all year round healthy indoor air quality. The Intellitrac® humidity controls constantly monitors the average humidity level over a two minute period. As the humidity rises and falls, the motor speed rises and falls in direct correlation. This controls condensation quietly and efficiently, eliminating the problem of noisy extract fans and reducing the periods of time when the unit operates on maximum speed, saving energy. An integral pullcord for both models shall be for trickle to boost extract ventilation as standard. A wireless controller shall be available as an option to change the airflow setting.

#### MOTOR

The motors shall be long life, low watt ball bearing DC motors. (Over 90,000 hours - depending on usage.)

#### FAN

Extract - the unit shall incorporate a centrifugal fan.

Supply - the unit shall incorporate a centrifugal fan.

#### HEAT EXCHANGE CELL

The heatSava shall incorporate a tubular heat exchange cell designed to deliver up to 75% efficiency incorporating tubes that have been twisted through 15° to improve the dwell time and efficiency. The design of the tubes shall minimise resistance and increase surface area to result in a higher heat transfer. There shall be four lengths of cell available to suit wall depths up to 600mm: 330mm, 430mm, 500mm or 600mm. The extract and supply airflows shall be 100% balanced to achieve optimum performance and efficiency in accordance with current EU Single Room Heat Recovery test methodology.

#### SUMMER BY-PASS

The unit shall have an automatic summer by-pass as standard to switch the unit to extract-only mode when the temperature reaches 25°C.

#### CELL OPTIONS

330MM	430MM	500MM	600MM
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#### CONSTRUCTION

The external body shall be constructed out of ABS gloss plastic. The outside casing of the heat exchange cell shall be constructed out of PVC.

#### TIME ELAPSE METER

The heatSava shall come as standard with a time elapse meter to monitor operational life.

#### WARRANTY

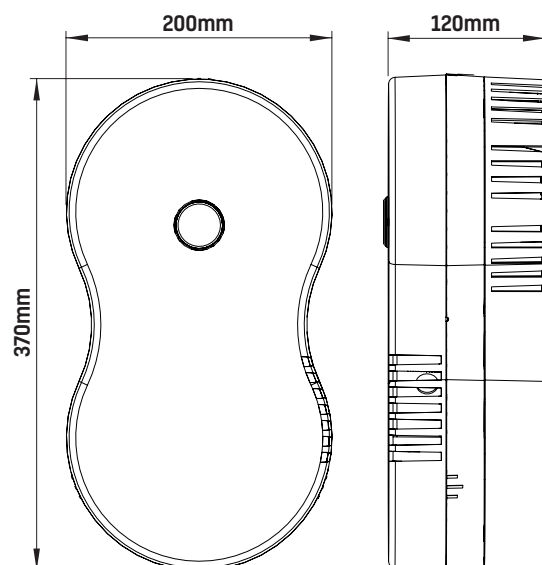
The unit shall be covered by an on-going two year warranty subject to the specified maintenance and servicing.

#### INSTALLATION

The heatSava 100 shall be installed into an existing 100mm wall sleeve or a 107mm hole can be drilled if installing into a new wall. The heatSava 150 shall be installed into an existing 150mm wall sleeve or a 158mm hole can be drilled if installing into a new wall.

The heatSava shall have the capability to be installed in four orientations around 360° horizontally or vertically to suit the installation. The pullcord shall also be capable of being positioned in 4 different locations on the unit depending on the orientation in which the heatSava is installed.

#### SIZE



#### PERFORMANCE DATA

MODEL	Airflow [l/s]		Watts		Sound pressure Level dB(A) @ 3m	
	Trickle	Boost	Trickle	Boost	Trickle	Boost
HS100/330	6.5	13	4.9	20.4	22	39
HS100/430	6.5	13	5.2	21.9	22	39
HS100/500	6.5	13	5.2	22.1	22	39
HS100/600	6.5	13	5.8	23.7	22	41
HS150/330	6.5	13	4.6	14.9	22	36
HS150/430	6.5	13	4.9	15.5	22	36
HS150/500	6.5	13	4.74	14.7	22	36
HS150/600	6.5	13	5.1	16	22	37