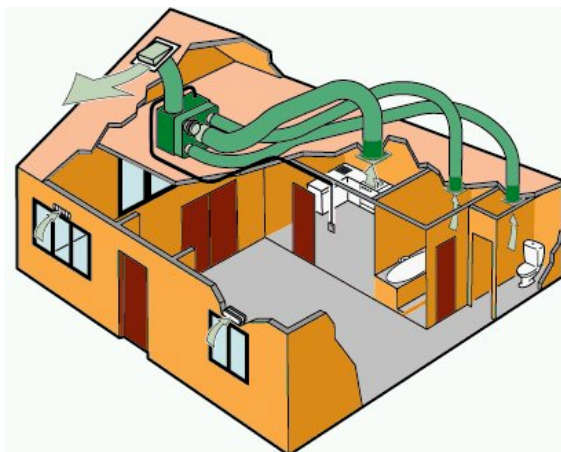


SIROC Whole House Ventilation

The **SIROC** is an "extract only" system and will remove damp and stale air from the "wet" rooms - (i.e. the kitchen, bathrooms, toilets, shower and utility room) and expel it to the outside via a single, centrally placed unit, typically installed in the roof space, garage or cupboard. Extracted air is replaced by fresh air entering the building, normally through trickle vents in windows. It is identical to the extract side of the AKOR (see below). Ducting installed for a SIROC can be used with the AKOR if the system is subsequently upgraded.

The SIROC whole house extract unit is suitable for installation in both new and refurbished domestic properties



The SIROC series are available in two model variations (T3/7 & GD) with airflow performances ranging from 200 up to 450 m³/hr. All units include a powerful 1ph 230V 50 Hz 3-speed external rotor motor coupled with a forward curved centrifugal impeller.

With boost and normal speed options (as standard), the SIROC whole house ventilation system provides cost effective, powerful and easy to use multipoint air extract solution in one unit for residential and small commercial properties. The SIROC system can be purchased as a fan only unit or within standard residential property kit arrangements, which include all corresponding ducting and valves.

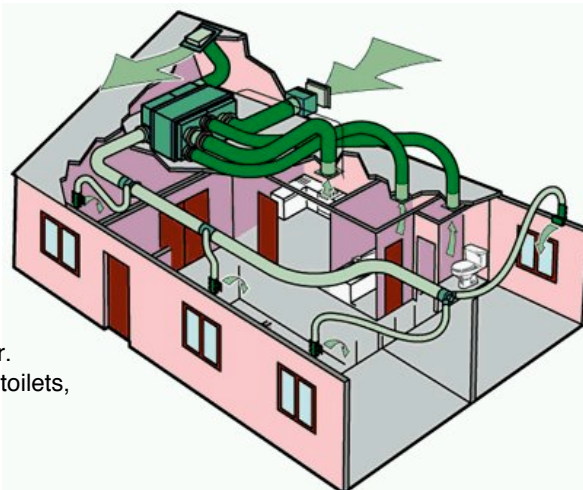
AKOR Whole House Ventilation with Heat Recovery

The **AKOR** (below left) is an "extract and supply system, with heat recovery".

It will extract stale damp air from the "wet" rooms and resupply fresh warmed air to the "dry" rooms. For smaller rooms one supply point is sufficient, but for larger rooms such as a lounge, two or more points may be required. It expels warm moist air to the outside, bringing back fresh air that has been warmed in the heat exchanger, using the heat recovered from the expelled air. The two air streams do not mix and so the stale, expelled air cannot be brought back into the house. Up to 70% efficiency is typically achieved at low operational speeds.

Powered by two integral fans (1 for supply and the other for extract air), the AKOR unit transfers the heat from the exhaust air to that of the fresh filtered incoming supply air using an efficient "cross-flow" style heat exchanger.

As with the SIROC unit, the AKOR extracts from multiple points in bathrooms, toilets, utility and kitchens to one centrally located fan unit.



All AKOR units incorporate "self-regulating," air valves mounted in the spigots of the extract ports and are designed to provide a precise constant extract air volume for both small or large applications.

The AKOR series are available in two model variations (T3/7 and GD) with airflow performances ranging from 200 up to 450 m³/hr. All units include two (extract & supply) powerful 1ph 230V 50 Hz 3-speed external rotor motors coupled with a forward curved centrifugal impellers.

The SIROC & AKOR casings are manufactured from high impact resistant ABS plastic and, for the extract side, include four 80 mm inlet ports (for bathroom, toilet and utility etc.); one 125 mm inlet port (kitchen) and one 125 mm outlet port for connection to the exterior of the building for extracted air(150mm for the Akor)

For the Supply Air (for the AKOR HRV unit only): one 150 mm inlet from exterior and one 150 mm outlet port for distribution of air to dry rooms. This becomes x 125mm duct with 60mm ducts to individual rooms. The AKOR multipoint extract and supply air fans aim to provide a "complete" twin fan, conditioned air ventilation solution for an entire residential installation. Air supply to dry Trickle vents in windows are not required with Heat Recovery Ventilation.

To compliment both the SIROC & AKOR series a comprehensive range of specialist accessories (including extract valves, ducting and mounting supports) are available to complete any given installation. Both the SIROC & AKOR meet the requirements of current Building Regulations: Document F1 when correctly installed to comply with BS5250 - the control of condensation in buildings.

HEAT RECOVERY BASIC SYSTEM (extracts from 2 wet rooms and supplies up to 4 dry rooms)

Extract Side:		Supply Side:	
No.	Units	Description	Description
1		HRV T3/7 Central Unit	1 Reduction cross 150-60-60-125
1		Control Switch - Summer ventilation	1 Reduction cross 125-60-60-125
1		Insulated Cover for HRV Unit	1 End Cap 125mm
1		Extract Valve - Kitchen	4 Supply Valves with mounting nipples
1		Extract Valve - Bathroom/kitchen/utility	
1		Constant Volume Device	
Ducting:		Miscellaneous:	
2		Flexible Duct 150mm (6m)	1 Fitting instructions & wiring diagram
2		Flexible Duct 127mm (6m)	2 External grille & spigot
1		Flexible Duct 82mm (6m)	1 Duct sealing tape
4		Flexible Duct 63mm (6m)	
		Basic kit = £1201.00	
Additional cost for insulated ducting = £185.00			

ADDITIONAL SUPPLY AND EXTRACT COMPONENTS (To extract from 1 additional wet room and supply up to 2 additional dry rooms)

No.	Units	Description	
1		Extract Valve - Bathroom/toilet/utility	
1		Constant Volume Device	Additional supply & extract components = £168.00
1		Flexible Duct 82mm (6m)	
1		Reduction Cross 125-60-60-125	
2		Supply Valves with mounting nipples	Additional cost for
1		Flexible Duct 127mm (6m)	insulated ducting = £120.00
2		Flexible Duct 63mm (6m)	

The **HRV basic system kit** includes the central unit together with all the necessary components for installation in the kitchen, one bathroom and up to 4 dry rooms. Ducting is supplied in 6m lengths - sufficient for most applications. Additional ducting and connectors can be ordered separately. Normally for use in houses of up to 3300 sq. ft.

Additional supply & extract components are sufficient to extract from 1 wet room and supply up to 2 dry points. Large rooms may require two or three supply points. One point will normally be sufficient for the other rooms. Use **HRV GD** for houses over 3300 sq. ft and up to 4100 sq. ft.

Wet rooms - kitchen, bathroom, toilet, utility, etc.

Dry rooms - lounge, dining room, bedrooms, study, etc.

Hallways, landings, corridors and stairs do not require extract or supply points.

Delivery UK mainland = £40.00

All prices subject to VAT @ 17.5%

CENTRAL EXTRACT VENTILATION (replaces up to 7 conventional extract fans)

Price Guide		HOUSE SIZE					
		Model	SIROC T3/7				SIROC GD
EXTRACT ROOMS		Small	Medium	Family	Large family	Large family	Executive
Kitchen		1	1	1	1	1	1
Bathroom		1	1	1	2	2	3
Toilet			1	1	1	2	2
Utility				1	1	1	1
Total Extract points		2	3	4	5	6	7
Central Ventilation Basic System (extracts from 2 wet rooms - kitchen & bathroom)		1	1	1	1		
Supplementary Extract Components (sufficient to extract from 1 additional wet room- shower, utility, WC)			1	2	3	4	5
Additional cost for SIROC GD (high volume) sq. sq.						1	1
TOTAL		£323	£396	£469	£541	£733	£805
All prices subject to VAT @ 17.5%		Delivery to UK mainland = £20.00					
Description 1 x SIROC Unit & Control Switch 1 x Extract Valve - Kitchen 1 x Extract Valve - Bathroom 1 x Constant Volume Device 2 x Flexible Duct 125mm (6m) 1 x Flexible Duct 80mm (6m) 1 x Wall Grille 1 x Duct sealing tape Basic Kit = £323		Description 1 x Extract Valve - Shower/Utility/WC 1 x Constant Volume Device 1 x Flexible Duct 80mm (6m) Supplementary Extract kit = £73 Complies with the requirements of Part F of the Building Regulations. Window trickle vents are required.					

HEAT RECOVERY - SYSTEM SIZING

Price Guide		HOUSE SIZE					
		Model	HRV T3/7				HRV GD
		sq.				sq.	
		Small	Medium	Family	Large family	Large family	Executive
WET ROOMS	Kitchen	1	1	1	1	1	1
	Bathroom	1	1	1	2	2	3
	Toilet		1	1	1	2	2
	Utility			1	1	1	1
Total Extract points		2	3	4	5	6	7
DRY ROOMS (supply points)	Lounge	1	2	2	2	2	3
	Dining room	1	1	1	1	1	2
	Bedrooms	2	3	4	5	6	6
	Study			1	1	1	2
	Family room				1	1	1
	Sitting room					1	1
Total Supply points		4	6	8	10	12	15
<i>Requires:</i>							
HRV T3/7 Basic System							
(extracts from 2 wet rooms & supplies up to 4 dry points) £1201		1	1	1	1		
Additional Supply & Extract Components							
(to extract from 1 wet room & supply up to 2 dry points) £185			1	2	3	4	5
Additional cost for HRV GD							
sq.							
sq. £172						1	1
Prices are trade	TOTAL	£1201	£1386	£1571	£1756	£2112	£2297

All prices subject to VAT @ 17.5%

Delivery to UK mainland = £40.00