



# INTEGRATED AIR HANDLING SYSTEM

## A1-Series





### The Frame

SAIVER unique frame design has inherent strength stability. The modular framework utilises a corrosion resistant, extruded marine aluminium alloy, patented twin box section with True Thermal Break Construction. The entire module is subsequently mounted on a heavy sectional aluminium alloy or galvanized steel channel base.



### Infill Panels

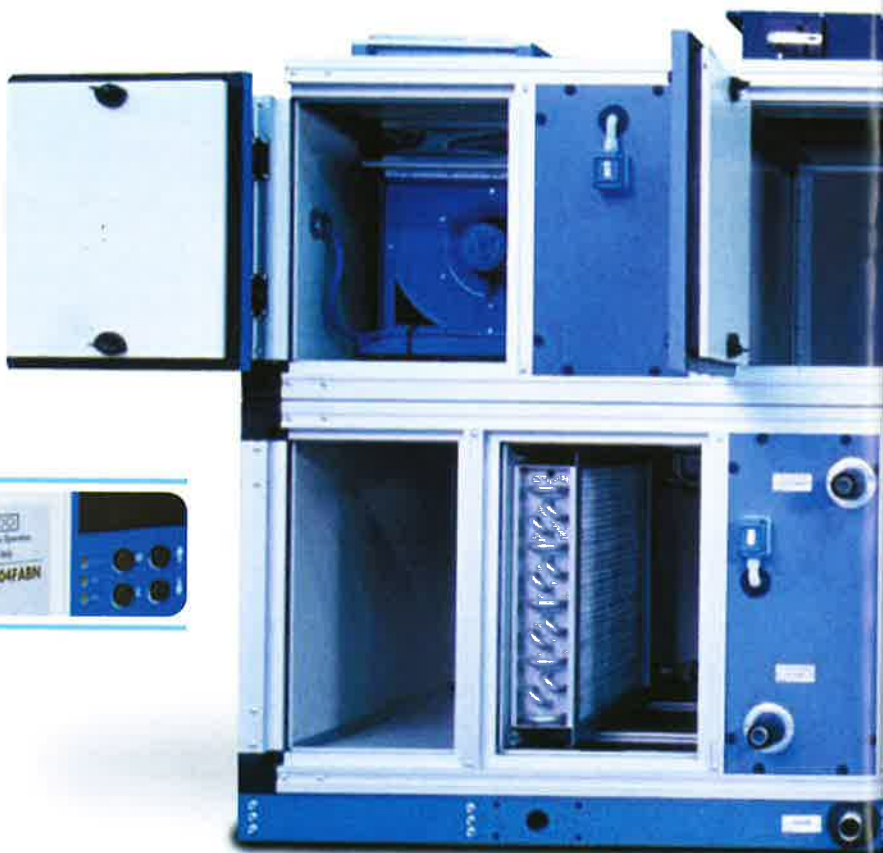
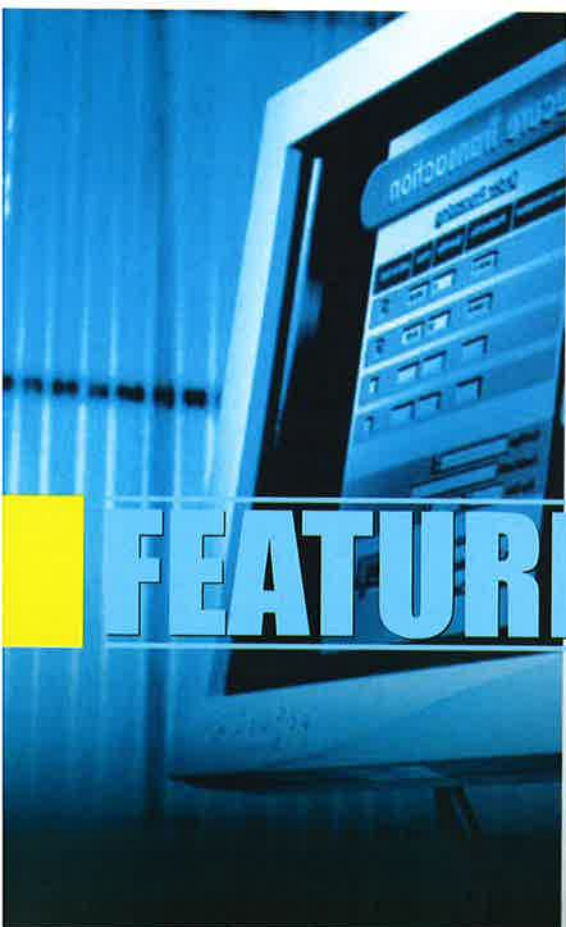
Standard 30mm or 60mm thick infill panels are of double skinned construction from pressure injected polyurethane foam insulation with 'K' value of  $0.02 \text{ Watts/m}^2\text{C}$  and density  $40 \text{ kg/m}^3$ , sandwiched between galvanized steel with optional preplasticised or pre-painted finish, PERALLUMAN and stainless steel sheet is also available.



### Accessibility

Filter, Coils, Air Washers and Fan Sections requiring regular maintenance and inspection, have hinged or fully removable access panels. These are fitted to the frame with easy release, half-turn nylon handles and cam locks. Handles can be operated internally for additional safety.

Hinges are of heavy duty, load-bearing design with stainless steel pivot. Other panels can be detached, if necessary for access by removing screws with simple hand tools.



### Inlet Section / Mixing Box

Plenum completed with dampers are specifically designed to minimize the stratification of entering air streams for maximum efficiency. Dampers are assembled within a rigid extruded aluminium frame, flanged and pre-drilled for easy fitting to connecting ductwork. Dampers are opposed blade type and available in both flat and double skinned aerofoil sections. Blades are formed from extruded aluminium with edge interlocks. Gaskets are provided to minimize leakage of air.



### Coil Section

Coils are computer selected to obtain optimum psychometric efficiency with low air and water pressure drops. Chilled water, direct expansion, hot water and steam coils are constructed from copper tubes, mechanically bonded to aluminium fins as standard. Other fin materials are available including vinyl coated aluminium, copper, tinned copper and galvanised steel. For corrosive flow media, stainless steel tubes and fins are available as an option. The coil assembly completed with carbon steel, copper or stainless steel headers is located within the coil section on aluminium support for easy withdrawal from either side.

