



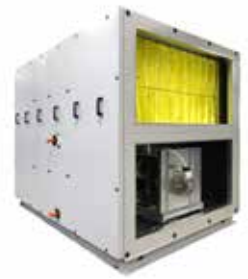
HRFL II Model



HR95 H Model



HR95 V Model



HR85 Model

Therm

MVHR Range

Therm-X is a compact, packaged, plug and play solution offering fresh air ventilation with heat recovery in horizontal or vertical installations with airflows up to 2.33m³/s.

- Heat recovery efficiency of up to 93%
- Exceeds ErP 2018 requirements
- EC fans and F7 filtration as standard
- Electric, LTHW, DX or CHW coils
- BMS via BACnet IP or MODBUS RTU/TCP
- Low power consumption
- Quiet operation (<30 dB(A) @ 3m)
- 'Plug & Play' installation with integral controls
- 'Choose & Go' software for accurate selections

The Therm-X MVHR range is ideal for small commercial applications, schools, retail, leisure, restaurants and offices.

The Therm-X range has optional integral heaters such as electric pre-heater and electric, LPHW, CHW or direct expansion (DX) post heater coils, as well as an extensive range of complimentary ancillaries for installation and control. All units are supplied with intuitive, inbuilt, BACnet IP or MODBUS RTU/TCP compatible touchscreen controls

For the consultant



Technical versatility

Designed to provide perfect comfort and the highest energy efficiency for a broad range of applications.



Ecodesign & Part L compliant

Fully conforming to the requirements for Part L of UK building design regulations and the European ecodesign directive.

For the installer



'Plug & Play' philosophy

All Therm-X products are designed around ease of install and simplified commissioning.



Tested, reliable performance

Units undertake a stringent set of tests to the relevant European and International Standards in an accredited laboratory to ensure performance.

For the end user



'Clean and comfortable climate

Fine filtration, temperature control and monitoring of indoor pollutants ensure high indoor air quality.



Energy savings

The Therm-X MVHR range boasts a high overall heat recovery efficiency of up to 93% providing year-round space heating and cooling energy savings. The intelligent control system self-optimises the unit mode to reduce heat losses and select the most economical operation.



Efficient, quiet operation

Next generation EC fans and acoustically optimised casing deliver near silent operation. IE4 efficient motors further increase energy efficiency.



Intelligent, user friendly controls

The handheld controller supplied with every Therm-X MVHR system offers easy control. It allows real time monitoring of the operation of the unit and is fully customisable with different levels of user access.

Choose your model

HRFL II



For ceiling voids or exposed ceilings

HR85



For free standing installation

HR95



For free standing installation

Plate Heat Exchanger Heat recovery efficiency up to 93%	Rotary Thermal Wheel Heat recovery efficiency up to 85%	Plate Heat Exchanger Heat recovery efficiency up to 93%
Internal installation only	Internal installation (external with optional weather roof)	External/Internal installation
Four models up to 0.57m ³ /s	Ten models up to 2.33 m ³ /s	Four horizontal models up to 1.05 m ³ /s
Slim design (310mm height in 040 and 070 sizes)	Six models with top connections up to 0.83 m ³ /s	Six vertical models up to 1.47m ³ /s
30mm thick galvanised construction	50mm thick galvanised frameless construction and powder paint finish for corrosion protection	
Access panels powder coated suitable for exposed installation	T3/TB4 (MB) thermal performance class to BS EN 1886:2007	
High density non combustible rockwool insulation	L1 (MB) casing leakage class to BS EN 1886:2007	
F7 (ePM2.5 50%) supply and M5 (ePM10 50%) extract filters F9 (ePM2.5 80%) optional filter	M5 (ePM10 50%) supply and extract filters F7 (ePM2.5 50%) optional filter	G4 (ePM coarse) and F7 (ePM2.5 50%) supply filters, G4 (ePM coarse) extract filter
Bottom access	Side access	Top or side access
Integral epoxy coated condensate drain tray	Condensation or Sorption rotary heat exchanger	Integral epoxy coated condensate drain tray
Hinge and handle panels for facilitated maintenance	Handled panels for facilitated maintenance	Top access panels supported by hydraulic support strut

Controls package

- ✓ Touchscreen controller and room temperature sensor
- ✓ Face and bypass damper actuator for PHE or controller for RHE
- ✓ 5 temperature sensors (fresh, supply (x2), return air, frost protection)
- ✓ 5 pressure sensors (fans, filters, cte pressure operation)
- ✓ 2 water temperature sensors (only versions with water or direct expansion coils)
- ✓ 1 condensate level sensor (x2 for versions with cooling coil option)
- ✓ Automatic and manual thermal reset for electric heaters (only versions with electric heaters)



Key features

Communication

- ✓ Control using a wired touchscreen controller (up to 2 controllers connected simultaneously)
- ✓ Support for control from BMS via Modbus RTU (RS485), Modbus TCP and Bacnet TCP/IP

Ventilation modes

- ✓ CAV, VAV and DCV mode
- ✓ BOOST and TRICKLE mode
- ✓ TIME SCHEDULLING – Weekly and yearly programming

Temperature control

- ✓ Supply or Room air temperature control
- ✓ Heat recovery device management with automatic FREECOOLING mode
- ✓ Control integral or external coils (CHW, LPHW, DX or Electric)
- ✓ Prevention of supply air overcooling/overheating

Safety

- ✓ Soft start up
- ✓ Fire interlock and FIRE mode
- ✓ Frost, overheat and condensate overflow protection

Commissioning

- ✓ Commissioning menu with dedicated functions including component test mode and PID adjustment



- ✓ Manual control of fan output 0-100% with option for unbalanced airflows
- ✓ Automatic fan & filter calibration
- ✓ Service software

Maintenance

- ✓ Monitoring of unit operation, error and alarms including dirty filters, component faults, etc

External

- ✓ Heat pump (DX) control
- ✓ Enable, Boost, Run and Error contacts
- ✓ Intake and exhaust shut off damper control

End user

- ✓ Airflow and temperature set point adjustment
- ✓ Boost switch
- ✓ Time scheduling
- ✓ Unit monitoring and status indication – operation, alarm, info, emergency