



**DAIKIN APPLIED (UK) LTD**

# HTM Pro - T Series

Air Handling Unit



HTM 03-01 Compliant Cabinet Air Handling Unit

# HTM-Pro

HTM-Pro is Daikin's cabinet-style AHU developed specifically for modern healthcare settings. Compact yet powerful, it meets HTM 03-01 requirements and is ideal for refurbishments, modular builds, and space-limited plantrooms. It simplifies installation while maintaining high standards for filtration, airflow, and hygiene, ensuring full compliance and peace of mind in critical care areas.

## Compact Compliance Without Compromise

Healthcare projects often face the challenge of meeting HTM 03-01 standards within the limits of existing building layouts. The HTM-Pro cabinet-style Air Handling Unit addresses this by delivering full HTM compliance in a space-saving format, providing an effective alternative to larger plantroom systems.

Its compact footprint makes it well suited to refurbishments, modular healthcare buildings, and plantrooms where space is limited. Installation is simplified without reducing the required levels of filtration, airflow control, or hygiene. With a focus on compliance, adaptability, and efficiency, HTM-Pro supports reliable, high-quality ventilation for critical care areas.

**MADE IN  
BRITAIN** 



## IAQ Matters

HTM-Pro delivers hospital-grade air quality with high-efficiency filtration and optimised airflow, supporting infection control, compliance, and wellbeing across clinical and support spaces.

## Made in Britain

HTM-Pro is proudly developed and manufactured in the North East of England, showcasing Daikin's commitment to British engineering and supporting UK healthcare with locally built, high-performance solutions.



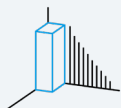
Fully removable slide drain trays, removable without use of tools for simplified hygiene maintenance.



All pipework exits from the side of the unit, allowing the front face to remain clear and enabling installation directly against walls.



Fully integrated plug-and-play digital control system, pre-wired and factory tested for simplified commissioning and reliable operation



Duct connections are positioned on the top of the unit to reduce footprint, with widths starting from just 1100mm for airflow rates between 0.85 and 1.42m<sup>3</sup>/s



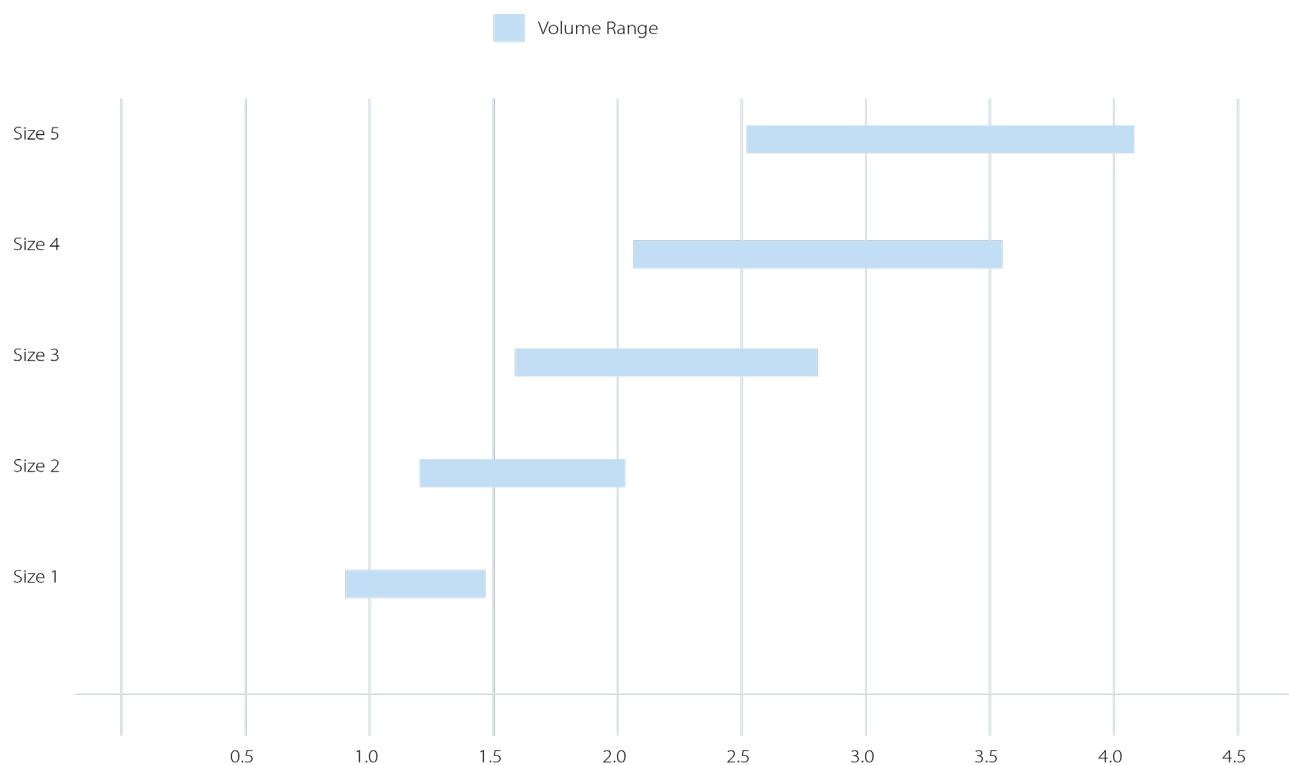
Internal LED lighting included within unit sections for improved visibility during inspection and servicing.

## Air flow Capability

HTM-Pro is available in a range of sizes suitable for various healthcare ventilation applications, including treatment rooms, isolation areas, clinical spaces, and general wards. Units are configurable to meet specific airflow and pressure regime requirements as outlined in HTM 03-01.

## Form Factor

HTM-Pro is delivered as a fully assembled cabinet unit, ideal for installations with restricted access and space. The rigid single-piece construction enhances strength, minimises leakage, and supports hygienic performance in line with healthcare requirements.



# Flexibility to meet your needs

## Filter

- ePM10 70% (M5) primary filter
- F7 (ePMI 55%) filter last in line
- ePM10 70% (M5) return filter

## Control

- Plug and play controls for an easy and quick start-up and unit operation

## Heat Exchanger

- High-efficiency counter flow plater heat exchanger
- Up to 80% of the thermal energy is recovered

## Casing and Insulation

T2 TB2 Thermal break construction 42mm double skin panel, mineral wool insulation

- Internal Panel: Pre-painted
- External Panel: Pre-painted
- Internal Parts: Stainless Steel





# Components



## Damper

- Class 3, rolled aluminium, lever mechanism, plastic free
- Suitable for motorisation

## Coil

- Water fog coil
- $-5^{\circ}\text{C}$  to  $0^{\circ}\text{C}$

## Coil

- Water cooling coil
- water re-heatcoil
- $10^{\circ}\Delta\text{T}$
- DX/Electric options

## Fan

- EC Fans, motor class IE5
- Plug and socket for quick changeover

## Drain Tray

- Slide removable drain tray
- removable without use of tools

## Maintenance

- Easy maintenance each component can be removed through few and simple actions
- Hinged doors allowing full maintenance access up and down stream of each component

# HTM Pro

## Pro Controls

## Main Features

### Operation & Functionality

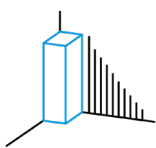
- Free cooling and free heating management
- VRV direct expansion system integration
- Programmable scheduling
- Temperature regulation logic (supply, return, ambient)
- Preloaded control parameters for simplified commissioning
- Factory-tested and pre-programmed for high quality assurance
- Integrated plug-and-play setup reduces installation time and cost
- Minimal maintenance requirements
- Control Interface & Connectivity
- User-friendly digital control interface
- Local supervision with optional remote monitoring
- BMS integration via Modbus or BACnet communication modules
- Optional water valve control

### Monitoring & Safety

- Analog filter pressure monitoring
- Shut-off dampers with pre-wired spring return actuators on all air inlets and outlets
- Integrated frost protection

### Power & Lighting

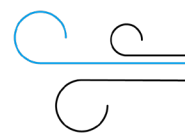
- 24V IP67-rated internal LED lighting operated from a single switch
- Separate power supply for internal lighting and integrated service socket



Compact design



Fully HTM 03-01 compliant



High airflow performance

# Plug and Play Control Systems

HTM-Pro features Daikin's advanced Digital Control Platform, adapted to meet the requirements of HTM 03-01. HTM-Pro comes with three pre-programmable operating modes including On, Eco, and Boost, allowing quick setup and easy switching between energy-saving, standard, and high-performance operation based on the needs of the space.

Dedicated key sensors such as pressure monitoring transducers, allowing for accurate and reliable environmental control within healthcare spaces. All units with factory-integrated controls are fully wired, pre-programmed, tested, and HTM 03-01 compliant, ensuring consistent and reliable installation in clinical environments. The optimised internal layout further enhances serviceability and installation efficiency.

## Technical Data

HTM Professional	Model	Size 1	Size 2	Size 3	Size 4	Size 5
Airflow	m³/s	0.95	1.45	1.95	2.45	2.95
HE thermal efficiency	%	>73				
External static pressure	Pa	300				
Power input¹	kW	1.66	2.48	3.35	4.41	5.22
SFPv²	kW/m³/s	1.75	1.71	1.72	1.80	1.77
Electrical supply Main	Phase (Ph)	3+N+PE				
	Frequency (hz)	50				
	Voltage (V)	400				
	Full Load Current³ (A)	20.40	20.20		34.80	
Electrical supply Auxiliary⁴	Phase (ph)	1+N				
	Frequency (hz)	50				
	Voltage (V)	230				
	Full Load Current³ (A)	18.70				
Unit dimensions	Width (mm)	1,100	1,500	1,900	2,040	2,300
	Height⁵ (mm)	2,060			2,150	
	Legth⁶ (mm)	3,740			4,100	

Total absorbed power input at nominal airflow and clean filter conditions | 2. SFP and nominal airflow, 300pa and clean filters | 3. Full potential current of fan and controls panel | 4. Auxiliary supply for lighting and service socket | 5. Height includes base and excludes dampers | 6. Length excludes coil pipework.

# Daikin on Site

## active remote monitoring

### What is Daikin on Site?

Daikin on Site (DoS) is a web-based 24/7/365 active remote monitoring system that collects complex operational data from the AHU or chiller control system. Daikin's Smart Centre turns the operational data into useful information that allows the user to remotely monitor performance. It also allows Daikin professionals to remotely optimise and maintain the equipment.

### Lifetime cost of your system

Energy costs and maintenance typically account for 85% of the system's total lifetime cost. With DoS we can provide a preventative maintenance schedule to ensure maximum efficiency and reliability of your equipment, preventing costly downtime and major repairs and keeping your energy costs to a minimum.

1

Insight wherever and whenever required, full visibility and traceability of the HVAC installation.

- Real-time information and trend insights
- No local software required
- Personal access to the web-based user interface
- Clear and useful reports

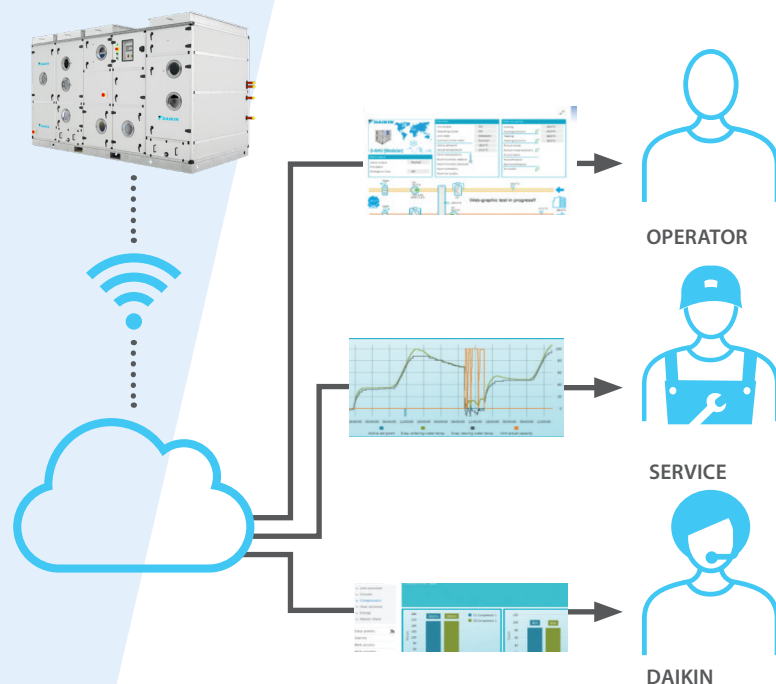
2

With Daikin Applied's remote monitoring, we team up operators and specialists.

- User-friendly operator information
- State-of-the art software providing best-in-class service
- Remote solutions when possible, avoiding onsite interventions

3

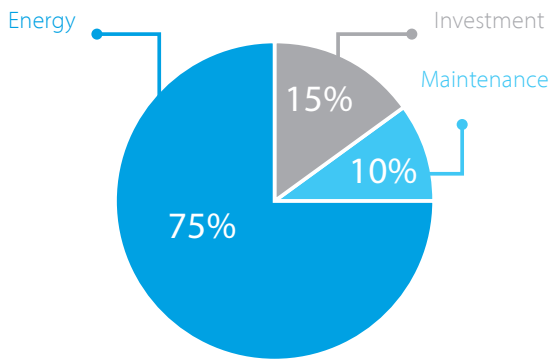
Converting all expertise to maintain highest energy efficiency and uptime.





# Daikin on Site

## active remote monitoring



Typical Life cycle Cost of an AHU (25 years)

## Benefits and Value

### Alarm Notifications

Receive instant alerts whenever abnormalities or issues are detected within your HVAC systems. This allows for immediate action to be taken, helping to prevent costly disruptions and ensuring continuous operation and customer satisfaction.

### Customisable Dashboard

Customise your dashboard to display the metrics and information most relevant to your operations. Benefit from a personalised and intuitive interface for efficient monitoring and control of your HVAC systems.

### Remote Monitoring

Monitor your chiller plants and air handling units from any location with internet access. This ensures peace of mind and enables a rapid response to any issues, helping to minimise downtime and maximise productivity.

### Real-Time Data Access

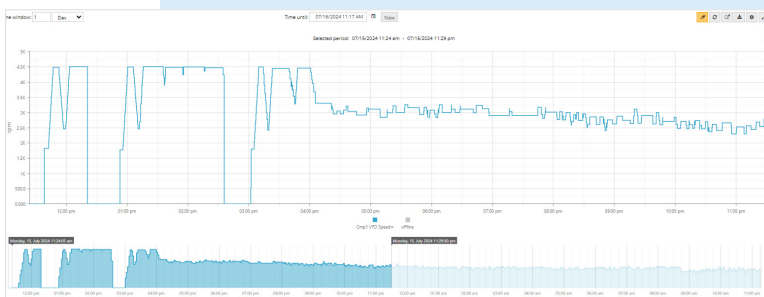
Access real-time performance data instantly, allowing you to make informed decisions quickly, improve system efficiency, and identify cost-saving opportunities as they arise.

### Remote Control

Remotely adjust settings and parameters to fine-tune your HVAC systems without requiring on-site intervention. This saves time and resources while maintaining optimal system performance.

### Data Analytics

Leverage advanced data analytics to review historical performance trends, identify patterns, and predict potential faults. This supports proactive maintenance and reduces the risk of unexpected downtime.



Datapoint trend analysis

A screenshot of an 'Advanced Alarm Dashboard'. It displays a table of active alarms with columns for Ticket status, Raised, Priority, Event state, Label, Address, and Plant name. The table lists several open tickets with details such as dates, times, and alarm types.

Ticket status	Raised	Priority	Event state	Label	Address	Plant name
Open	2024.07.16 11:29:26	Class 1	OFF Normal	+ 14.12.2023 22:23...		
Open	2024.07.16 10:08:57	Class 1	OFF Normal			
Open	2024.07.14 10:50:02	Class 1	High limit	+ 23.11.2023 07:51...		
Open	2024.07.10 07:46:27	Class 1	OFF Normal	+ 02.12.2023 10:16...		
Open	2024.07.09 15:35:33	Class 1	Fault	+ 14.12.2023 11:36...		
Open	2024.07.09 15:35:33	Class 1	Fault	+ 14.12.2023 11:36...		
Open	2024.07.09 15:35:33	Class 1	Fault	+ 14.12.2023 11:36...		

Advanced Alarm Dashboard



For more information visit: [www.daikinapplied.uk](http://www.daikinapplied.uk)

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