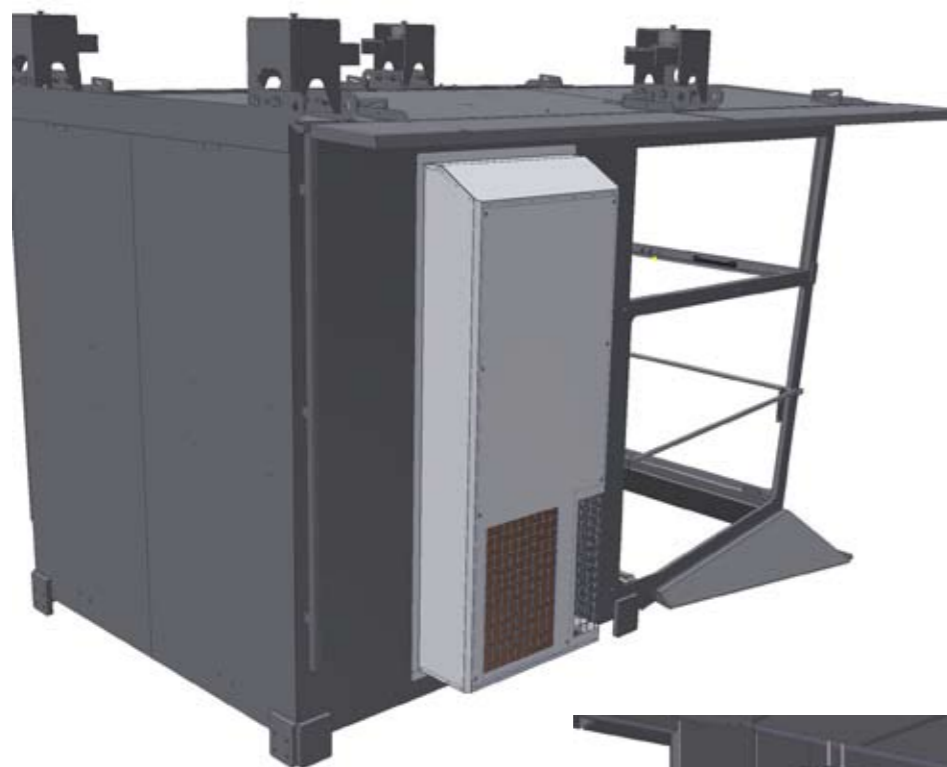




MERFORD

## Merford Climate Unit



INNOVATION  
HEALTH AND SAFETY  
EFFICIENCY

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## Merford Climate Unit

All over the world, crane operators face different weather conditions, ranging from extremely cold to extremely hot. However, the temperature inside cabins should provide reasonable comfort without the need for special clothing. A comfortable temperature inside the cabin improves the wellbeing and performance of the operator and the efficiency of the crane.



Extremely cold



Extremely hot

[www.ergocab.com](http://www.ergocab.com)

## Creating the perfect working conditions

Temperature control is very important because it has been proven that people perform at their best at 23°C to 24°C. It has been demonstrated that lowering or raising the temperature by 5 degrees reduces performance by about 9% (Seppänen et al. 2003). Good temperature control is a must, especially in extreme climates.

Merford has designed a new HVAC system, the Merford Climate Unit. HVAC stands for Heating, Ventilation and Air-Conditioning – three closely-related fundamental functions that are essential for creating perfect working conditions. The primary use of the Merford Climate Unit is to regulate cabin temperature, humidity and airflow, ensuring that these elements remain within their acceptable ranges. Effective control of such factors minimises health-related risks.

The Merford Climate Unit is a fully-integrated climate control unit, consisting of air-conditioning, heating and fresh air supply. The system is automatically temperature-controlled and equipped with a high-performance demisting function.

Warm air is fed in over the full width of the bottom window at the front of the cabin (in case of Merford Ergocab). Cool air supply is integrated into the front section of the ceiling (even vertical airflow along the front screen). This intelligent system creates a perfect climate inside the cabin.



## Options

There are two variants of the Merford Climate Unit.

### Variant 1

- Heating
- In this case, only heating is provided.
- This variant is suitable if there is no need for air-conditioning or if a stand-alone air-con unit is used.

### Variant 2

- HVAC
- Fully-integrated climate control.
- Heating: 7.5 kW
- Cooling: 3.7 kW
- Ventilation

Extra options

- Merford Filter Unit – please contact our sales department for more information.

## Specifications

- Easy to mount on existing and new cabins (plug-and-play)
- Flexible placement on cabin wall (door)
- Easy to operate using one display.
  - Heating
  - Cooling
  - Ventilation (fresh air)
  - Circulation
- Control display
  - 24V AC
  - Fault code
  - Fahrenheit/Celsius
  - Single DIN slot
- Dimensions
  - Merford Climate Unit (HxDxW): 2020x420x800
  - Stand-alone heating
    - Vertical (HxDxW): 700x490x320
    - Horizontal (HxDxW): 150x400x100
- Weight
  - Merford Climate Unit: approx. 300Kg
  - Stand-alone heating
- Power supply: 230V 50/60Hz
- Protection: IP 44
- Circulation filter

**“The Merford Climate Unit creates an optimal working temperature”.**