Heating/Cooling Maintenance Truck

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Heating/Cooling Maintenance Truck

Generals

This mobile Heating/Cooling Maintenance workshop is mounted on a Mercedes-Benz 4WD truck.
It is intended to the maintenance of equipment like air conditioning, cold storage rooms, boilers, water heaters, ovens, cooking equipment, ...

Organization

The workshop features four work benches on which can be achieved the following operations:

- Two work benches for mechanical works with a column drilling machine, a disc grindstone, a press, a bench vice which will be used for mounting and dismantling of all equipment to be repaired,
- A work bench for heating equipment,
- A work bench for cooling equipment.

The workshop features all dedicated equipment for heating and cooling with tools and accessories in tool boxes.
The workshop features its own power generator.
When the connection to the external main power is impossible, a 10 kVA power generator is put operation.
A power station allows the operations of all power inputs and the electrical distribution for the vehicle.

The vehicle

Its dimensions are according to the needs and comply with the international road rules (signaling, dimensions, security …)
It is delivered according to the rules in force.

Dispositions inside the workshop

The floor is covered with non-skid coating washable with water.
The furniture is made of epoxy coated steel sheets and tubular frame providing sturdiness and maximum reliability for maximum integration of equipment complying with international standards.

The higher part of workshop features chests for storage of equipment and tooling.
When the truck is running, the space between the work benches is used to store all equipment in boxes and dedicated chests which are stowed to rails available all along the walls. They feature slots in which can be hooked straps to stow gas and refrigerating fluid tanks or any other similar equipment.
It also features stowing rings fully integrated in the floor of the workshop.

The transshipment of heavy equipment on board is made thanks to an electrical pulley block, in the central part of the vehicle, with manual horizontal translator motion and electrical vertical motion.
Its allows to move heavy equipment like the power generator.

To comply with international standards of brightness on board, two transparent scuttles are installed on the roof, allowing a natural lighting.
These scuttles feature a curtain which can be drawn for the protection against sun rays.

Besides, each work bench features a light bar and protected electric outlets (220 Vac).
The electrical power is controlled by a central main board connected to the external main power. When this connection is impossible, a 10 kVA power generator is put in operation.

During transport, this power generator is placed in a specific location at the back of the truck.

The pulley block allows to put it out easily of the vehicle to use it outside the workshop, avoiding this way any auditive discomfort.

The power generator features stowing rings for its stowing with the pulley block.

The workshop features a reverse air conditioning system installed on the roof of the vehicle.

The vehicle features five extinguishers. To comply with international standards, one of them can be reached from outside the workshop.
The back door is doubled by a multi plastic stripes transparent curtain to avoid the entry of dust when the back door is opened.

A waterproof external door, on the left side, give access to the air compressor to make its maintenance easy.

The compressor is mounted on sliding rails allowing an easy access for the maintenance. It also features compressed air tanks.

To insure security of intervention, two warning gyro lights are installed on the cabin of the truck as well as flashing lights at the back of the vehicle.
A floodlight allows to illuminate the back part of the vehicle as well as its back door.
A winch can be installed under the frame on the front part of the vehicle

To insure a correct follow up of all operations of maintenance, a package of global solution using bar code is proposed.
It includes a bar code reader, an identification software and a kit of pre-printed labels.

The power circuit

The power control box allows the control of the electric power of the heating / cooling workshop.
The central box regroups all electrical inputs / outputs with adequate and normalized protection.

Power circuit

It is fed either directly by the external power network or by the power generator. The selection being made by a manual switch.
In both case, the output is protected by fuses, differential breaker and surge arrester.

Views of workbenches

Pulley block with its remote control system

Air compressor with its sliding rails

Compressed air output with three compressed air tanks

Inputs / Outputs 220 V / 430 Vac for external main power and compressed air output

Outside views of the truck