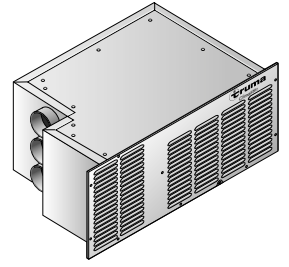




Climaster

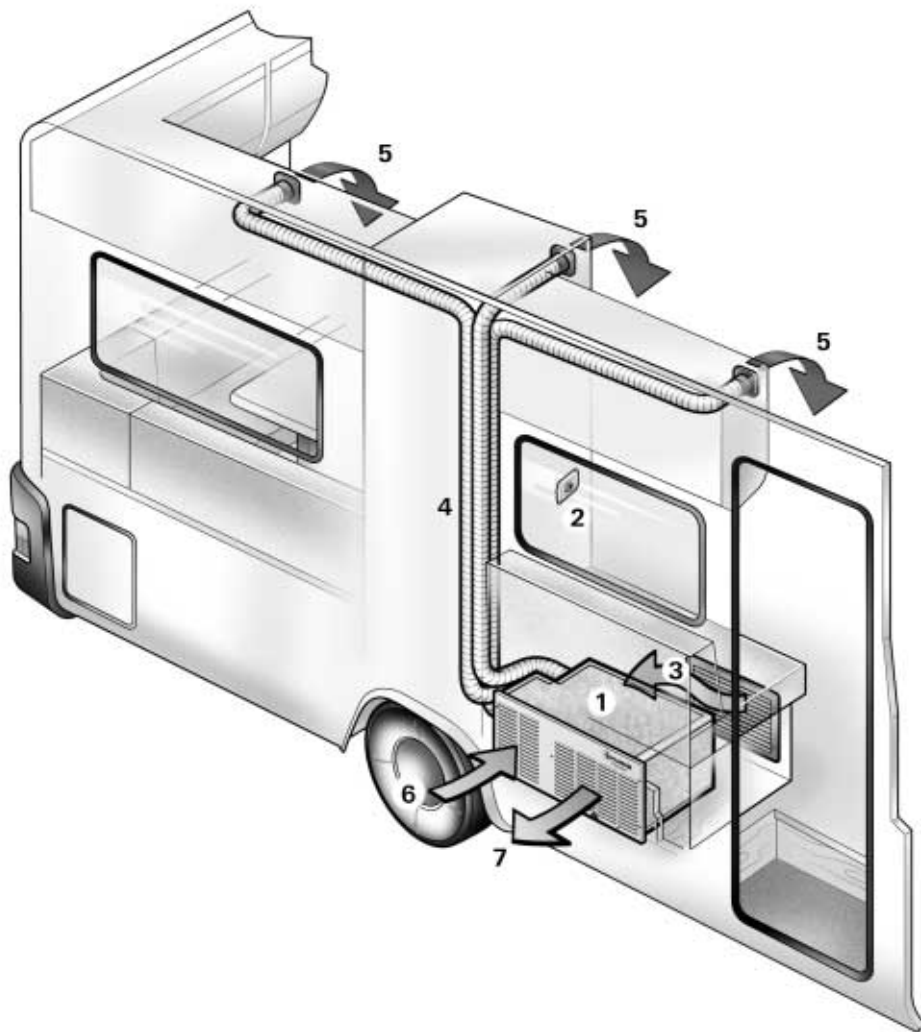
Comfort Air Conditioner



Operating instructions
Installation instructions

Page 2
Page 5

To be kept in the vehicle!



Installation example

- 1 Air conditioning unit
Truma-Climaster
- 2 Control panel
- 3 Indoor air return with filter
- 4 Cold air ducts
- 5 Indoor air outlets
- 6 Outdoor air intake
- 7 Outdoor air outlet

General safety notes

⚠ Repairs may only be carried out by properly qualified professionals!

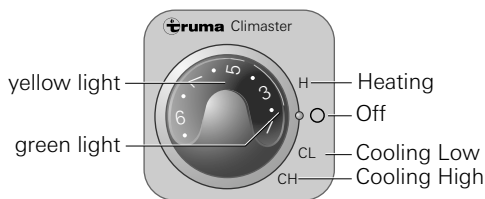
- To avoid damage during transport, the unit must only be dispatched after discussion with the Truma Service department (see front page).
- Any work involving connection or interconnecting wiring must be conducted by a licensed electrician.
- The voltage must be disconnected at all poles before the housing is opened.
- The unit fuse, 240 V, 3,15 A (IEC 127) is located on the electronic control board in the device, and may only be replaced by a fuse of the same design.
- Unit fuses and connection leads may only be replaced by a licensed electrician.
- Any alteration to the unit, or the use of spare parts and functionally-important accessories which are not original Truma components, or failure to respect the Installation and Operating Instructions, will lead to the cancellation of the guarantee and to the exclusion of claims for liability.
- The cooling circuit contains the refrigerant R 22, and may only be opened by a properly qualified person.

- The indoor air outflow and the return air intake must not on any account be obstructed. Please bear this in mind in order to ensure the trouble-free operation of the unit.
- The apertures on the side of the vehicle must be kept free of dirt and snow slush.
- In order to avoid damage to the compressor, when the unit is in operation during transit (for example, with the generator or voltage transformer working), do not attempt uphill or downhill gradients of more than 5°.
- Do not allow the unit to run for extended periods in a tilted position, since the condensation water which forms may not be able to run off, and in the worst scenario might penetrate into the vehicle.
- Before switching on, it is essential to make sure that the fuse system for the power supply at the camp site is sufficient for 950 W (240 V) (at least 4.4 A).
- The power supply cable for the caravan (minimum cross-section 3 x 2.5 mm²) must be unwound completely from the cable drum.
- This unit is not to be used by children or infirm persons without proper supervision at all times. Not to be used as a toy.
- Manufacturer's terms of warranty see page 4.

Operating instructions

Always observe the Operating Instructions and „Important Operating Notes“ prior to starting! The vehicle owner is responsible for ensuring that the unit can be operated in the proper manner.

Control Panel



Cooling Operation

1. Turn selector on the control panel to the „CL“ position for cooling at low fan speed or „CH“ for cooling at high fan speed.

Note: The indoor fan starts immediately and the green light is displayed. The compressor starts approximately 30 seconds later.

2. Set thermostat to a temperature for your individual requirements.

Note: If the room temperature is below 20°C, the compressor will not operate and the yellow light in the control panel will come on.

i Once the set temperature on the control has been reached, the green light will go out and the compressor will switch off. The indoor fan continues to run.

Heating Operation

1. Turn selector on the control panel to the „H“ position.

Note: After switching on; the green light is displayed, after approximately 30 seconds the compressor starts and after further 30 seconds the indoor fan starts in low speed only.

2. Set thermostat to a temperature for your individual requirements.

Switching Off

Turn selector on the control panel to the „Off“ position.

De-Icing

The de-icing cycle is associated with the heating mode. It will set into operation automatically if one of the sensors detects frost on any of the heat exchangers. The build up of frost would otherwise impair the cooling or heating capacity of the unit.

When the de-icing cycle begins the compressor and indoor fan will stop and after approximately 10 seconds the reversing valve will be switched on. 30 seconds later the compressor will re-start. The indoor fan does not run during the de-icing cycle.

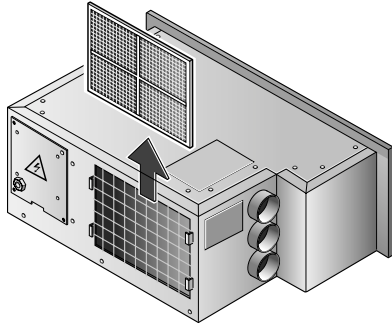
The air conditioner will run in this mode until the frost has been removed and then will automatically resume normal operation.

Notes for the use of the air-conditioner

- The Truma-Climaster is recommended for pop-top caravans and caravans up to 4.8 m overall length, but requires that all walls and ceilings are insulated with a minimum thickness of 25 mm.
- As far as possible, park your vehicle in the shade.
- Darkening the interior with window blinds and/or a roof awning will reduce the penetration of radiant heat.
- Clean the roof of the vehicle regularly (dirty roofs heat up more readily).
- Before operating the device, ventilate your vehicle thoroughly, in order to allow the hot air which builds up inside to escape.
- Take care when putting up awnings or similar that there are sufficient openings for the outdoor air to be discharged.
- To create a healthy environment on the inside of the vehicle, the difference between the inside and outside temperatures should not be selected as too great. During operation the indoor air will be purified and dried. Due to the drying of the moist, humid air, a pleasant environment will be created inside even with slight temperature differences.
- Keep the doors and windows closed while the cooling system is in operation.
- The capacity of the air conditioner to adequately cool or heat is dependant on:
 - Size of the caravan
 - Insulation of the caravan
 - Size and type of windows
 - Shading
 - Ventilation from indoor to outdoor

Maintenance

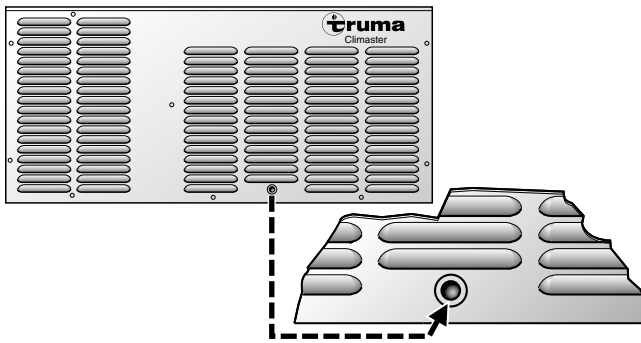
Return air filter



The return air filter is located on the side of the unit and must be cleaned monthly. If the air conditioner is in use in very dusty conditions and at high humidity, it should be cleaned weekly. Take out the filter by bending it, clean in warm soapy water and replace.

Note: Never run the unit without filter. Without a filter the evaporator will become dirty, which in turn will impair the performance of the unit.

Condensation drain



The condensation water drain is located on the side of the vehicle. In order for the condensation water to drain away freely, a regular check should be made to ensure that the drain hose is free of dirt, vegetation residue, or similar obstructions. **If this is not done, there is a risk of condensation water penetrating into the vehicle.**

Fixing of the air conditioner

We suggest the securing of the air conditioner to the floor is checked after the first three months of installation and thereafter each 12 months. Insure the tie down belt is pulled tight and the unit is unable to move in any direction.

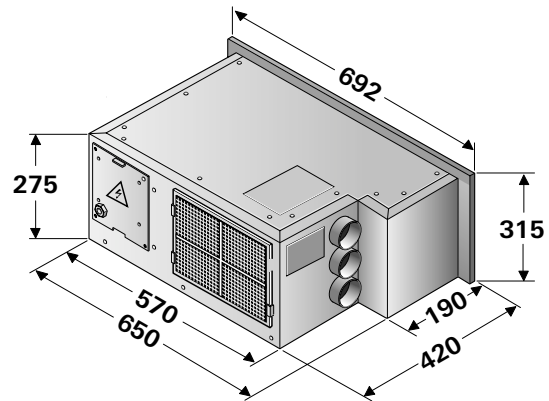
Technical specifications

Designation: Climaster, Comfort air conditioner
Area of operation: Up to 16'6" caravans (external)
Dimensions (LxWxH): 650 x 420 x 275 mm
Weight: Approx. 32 kg
Power supply: 230 V - 240 V ~ 50 Hz
Maximum nominal cooling capacity: approx. 2.2 kW
Maximum nominal heating capacity: approx. 1.9 kW
Power consumption: 0.95 kW
Start-up current: 20 A (150 ms)
Current consumption: 4.4 A
Refrigerant: R 22
Refrigerant content: 530 grams
Compressor oil: Barrel freeze 32 SAM, 230 g
Maximum inclination of vehicle during operation: 5°
Operational limits:

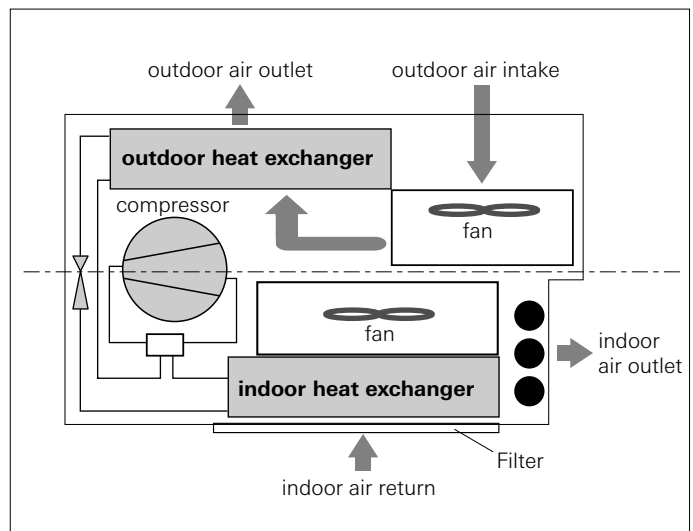
- + 3°C to + 45°C
- An icing sensor prevents impermissible formation of ice on the evaporator
- A temperature switch prevents excess current flow and excess temperature at the compressor.

Right to effect technical modifications is reserved!

Dimensions:



Function diagram



Fault finding

Before calling Customer Service, please check the following:

Symptom	Cause
When switching on, the unit does not operate	- No 240 V supply voltage
Connect the caravan to the site supply and/or check residual current circuit breaker.	
When switching on heating operation, the unit does not operate	- Temperature setting on the control control panel to low
Set the ambient room temperature on the control panel.	
When switching on cooling operation, the unit does not operate	- Temperature setting on the control control panel to high
Set the ambient room temperature on the control panel.	
Note: If the room temperature is below 20°C, the compressor will not operate and the yellow light in the control panel will come on (only cooling mode).	
Unusual high condensation on the unit or the cold air ducts	- Door or windows open (high humidity)
Close all doors and windows during operation and set to cooling high „CH“ on the control panel.	
Unit operates for a prolonged period (heating or cooling) and then stops	- Indoor air filter blocked - Aperture for the outdoor air blocked
Check the indoor air filter, the air intake to the stowage box (in which the unit is installed) and the aperture for the outdoor air (refer to maintenance).	

If fault persists please contact the nearest Truma-Service.

Manufacturer's terms of warranty

The manufacturer grants a warranty for malfunctions in the appliance which are based on material or production faults. In addition to this, the statutory warranty claims against the seller remain valid.

The warranty claim is not valid for damage to the appliance

- for parts subject to wear and in cases of natural wear and tear
- as a result of not original Truma parts being used in the appliance
- as a result of non-compliance with the installation instructions and instructions for use
- as a result of incorrect handling
- as a result of incorrect packaging for transportation

The warranty is valid for malfunctions as stated above, which occur within 12 months after conclusion of the purchase agreement between the seller and the final consumer. Claims for indirect damage or consequential damage shall be rejected. This does not affect the rules of the product liability law.

The manufacturer shall bear the cost of employing the Truma customer service for the removal of a malfunction under warranty - in particular job and material costs.

Additional costs based on complicated removal and installation conditions of the appliance (e.g. removal of furniture or parts of the vehicle body) do not come under warranty.

In Germany, the Truma Service Center in Putzbrunn/ Munich must always be contacted in event of a malfunction; Abroad, respective service partners are available (refer to address list). Complaints must be specified. In addition, the correctly completed warranty certificate must be presented or the serial number of the appliance and the date of purchase specified. Proof of purchase must be supplied.

To avoid transport damage, the device may only be dispatched after agreement with the Truma Service Centre or with the particular service partner. The risk for possible transport damage will otherwise be borne by the consignor.

Dispatch is normally to be carried out by freight forwarders using the special dispatch boxes available from Truma. In the event the appliance has to be returned to the factory and if it is a case of warranty, the factory shall bear the cost for the delivery to the factory and the cost for returning the appliance to the customer. If the damage is deemed not to be a warranty case, the manufacturer shall notify the customer and shall specify repair costs which shall not be borne by the manufacturer; in this case, the customer shall also bear the shipping costs.