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**CHAUFFAGE DE L'HABITACLE**  
**REGLEMENT ECE 122R00**

TYPE DE CHAUFFAGE: ADVERS 30TC

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SCHEMAS ET PHOTOS FOURNIS  
*DRAWINGS AND PHOTOGRAPHS SUPPLIED*

Schéma ou photographie l'étiquette du constructeur:  
*Photograph or drawing of the manufacturer's label*

Page 5

Schéma ou photographie du système de chauffage à combustion:  
*Photograph or drawing of the combustion heater*

Page 6

Notice de montage du chauffage à combustion et de ses composants:  
*Mounting description of the combustion heater and all its components*

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1. **GENERALITES**  
**GENERAL**

- 1.1 Marque (raison sociale du constructeur): **ADVERS**  
*Make (trade name of manufacturer)*
- 1.2 Type: **ADVERS 30TC**  
*Type*
- 1.2.1 Dénomination(s) commerciale(s): **ADVERS 30TC-12**  
*Commercial name(s)* **ADVERS 30TC- 24**
- 1.3 Nom et adresse du constructeur: **LLC «ADVERS»**  
*Name and address of manufacturer* **443068, Samara,**  
**Novo-Sadovaja str. 106**  
**Russia**
- 1.4 Dans le cas d'éléments constitutifs, emplacement et  
méthode de fixation de la marque d'homologation ECE: **Label on the top of the**  
*In the case of components, location and method of* **heater**  
*affixing of the ECE approval mark*
- 1.5 Adresse des ateliers de montage: **LLC «ADVERS»**  
*Address(es) of assembly plant(s)* **443068, Samara,**  
**Novo-Sadovaja str. 106**  
**Russia**  
**LLC «TEPLOSTAR»**  
**446253, Region Samara,**  
**u.v. Bezenchuk,**  
**Central str. 111, Russia**



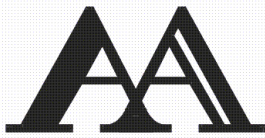
## 2. **CHAUFFAGE A COMBUSTION** **COMBUSTION HEATER**

- 2.1 Marque (raison sociale du constructeur): **ADVERS**  
*Make (trade name of manufacturer)*
- 2.2 Type: **30TC**  
*Type*
- 2.2.1 Dénomination(s) commerciale(s): **ADVERS 30TC-12**  
*Commercial name(s)* **ADVERS 30TC- 24**
- 2.3 Moyens d'identification du type, s'il est indiqu  sur le  
syst me de chauffage: **Label on the heater**  
*Means of identification of type, if marked on the  
heating system*
- 2.4 Emplacement de cette marque: **On the top of the heater**  
*Location of that marking*
- 2.5 Nom et adresse du constructeur: **LLC «ADVERS»**  
*Name and address of manufacturer* **443068, Samara,  
Novo-Sadovaja str. 106  
Russia**
- 2.6 Adresse des ateliers de montage: **See 1.5**  
*Address(es) of assembly plant(s)*
- 2.7 Pression d' preuve: **2,0 bars**  
*Test pressure*
- 2.7.1 Pression d' preuve de l'unit    basse pression: **not applicable**  
*Test pressure low-pressure unit*
- 2.8 Description d taill e, plan de masse et notice de  
montage du chauffage a combustion et de l'ensemble  
de ses  l ments: **Pages 7-10**  
*Detailed description, layout drawings and mounting  
description of the combustion heater and all its components*
- Carburant **Diesel**  
*Fuel*
- Fluide caloporteur **Coolant**  
*Transfer medium*

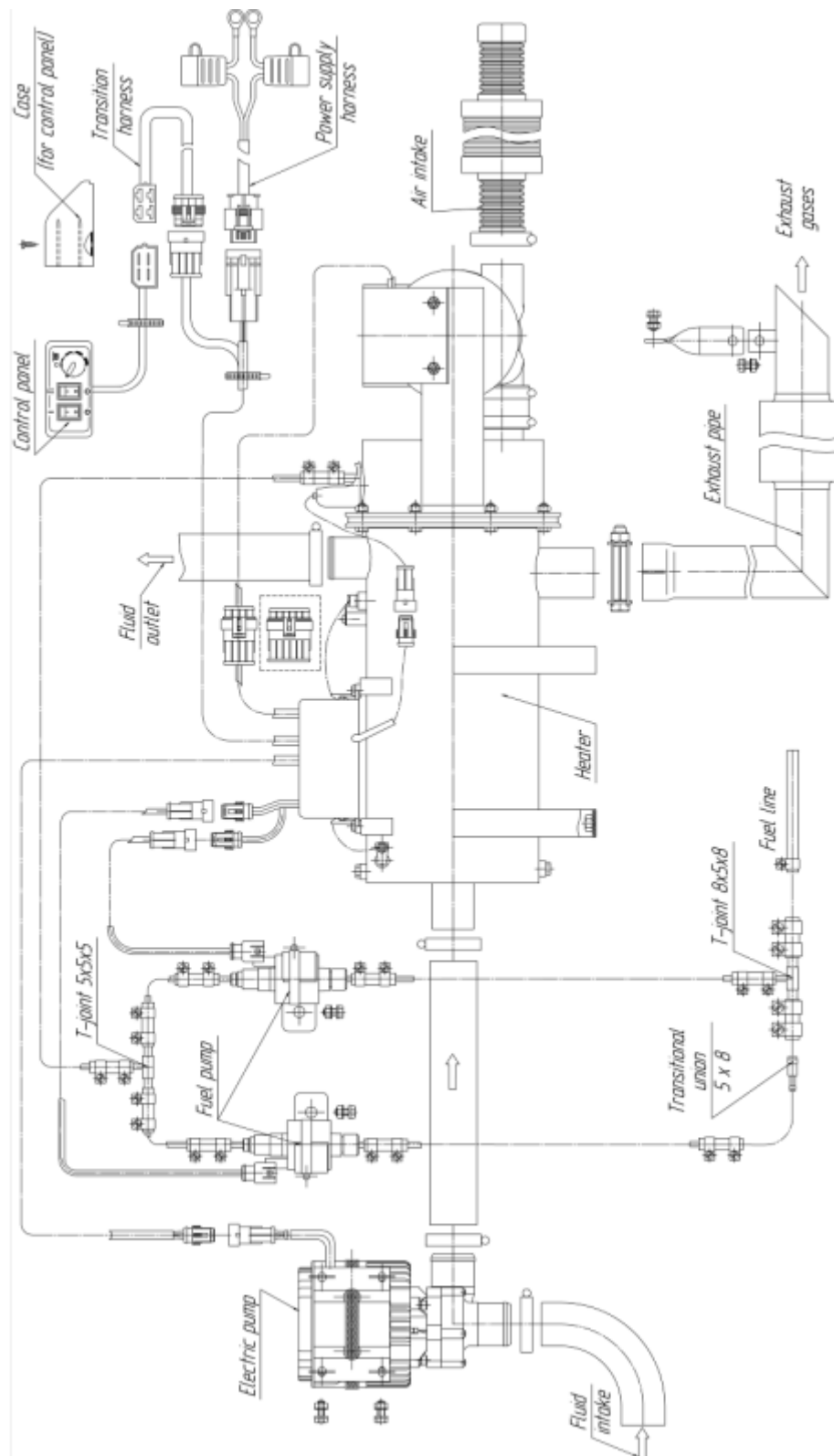


Photograph of the manufacturer's label





### Drawing of the combustion heater





## MOUNTING DESCRIPTION

### 10 Installation specification for pre-heater and its assemblies

The pre-heater 30TC are performed for installation on any trucks with liquid cooling system.

#### 10.1. General instructions for installing the heater.

10.1.1. Heater and Motor air pump shall be located lower the radiator overflow tank.

10.1.2. Check up fluid flow in the heater and the engine cooling system; be sure it has the same direction.

10.1.3. Remove air blocks from the engine cooling system and the heater on completion of the heater installation. All the pipe junctions shall be leak-proof.

10.1.4. Fuel and coolant pipes shall be assembled in a way avoiding their contact with hot or vibrating components of the vehicle.

10.1.5. It is unacceptable to operate the pre-heater with the cooling fluid frozen.

10.1.6. On completion of any activities with the cooling system (repair work, cooling fluid changeout) it shall be purged to remove air blocks as per 10.1.3.

10.1.7. It is possible to make start of the engine for increase of speed of warming up at the working heater. At the lowered votage on a battery the program of a heater allows to make start of the engine at the working product with short-term (to 15 sec) undervoltage to 18V (10V).

#### 10.2 Heater installation

For installation of the heater to choose a place in the car according to item 10.1.1. To install the heater on a horizontal platform. The overall and mounting dimensions of the heater are shown in fig. 5. Installation of the heater on the engine, in salon or a cabin of the car isn't allowed.

Install the pre-heater taking into consideration the accessibility to main assemblies- electronic control unit, temperature and overheating sensors, air intake, fuel pump.

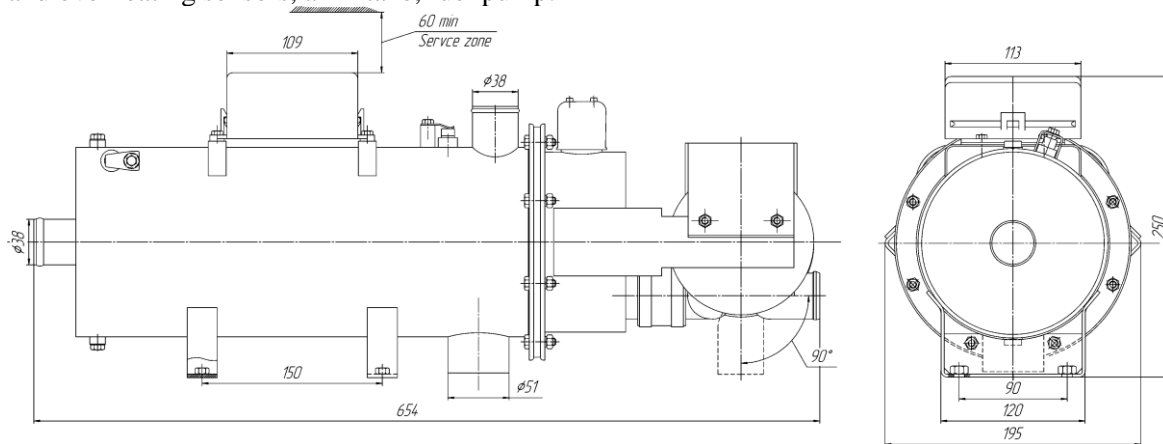


Figure 5 – Allowable working positions of the pre-heater

#### 10.3 Requirement to an arrangement of an air inlet of the air pump.

At installation of the heater, an air inlet of an air pump must be placed so that to exclude its contamination or hit it with snow, and also to provide a free drain of the water which got to it. The entrance opening of an air inlet must be placed in a zone, "pure" from pollution.

**To place the entrance opening of an air inlet against the running air stream at the movement of the car is forbidden.**



#### 10.4 Installation of the motor pump.

The motor pump shall be located in conformity with recommendations given in items 10.1.1 and 10.1.2.

Operating position of motor pipe is whatever from horizontal to vertical with the pump down. Pump it is recommended to place below the heater. The overall and mounting dimensions see in fig. 6.

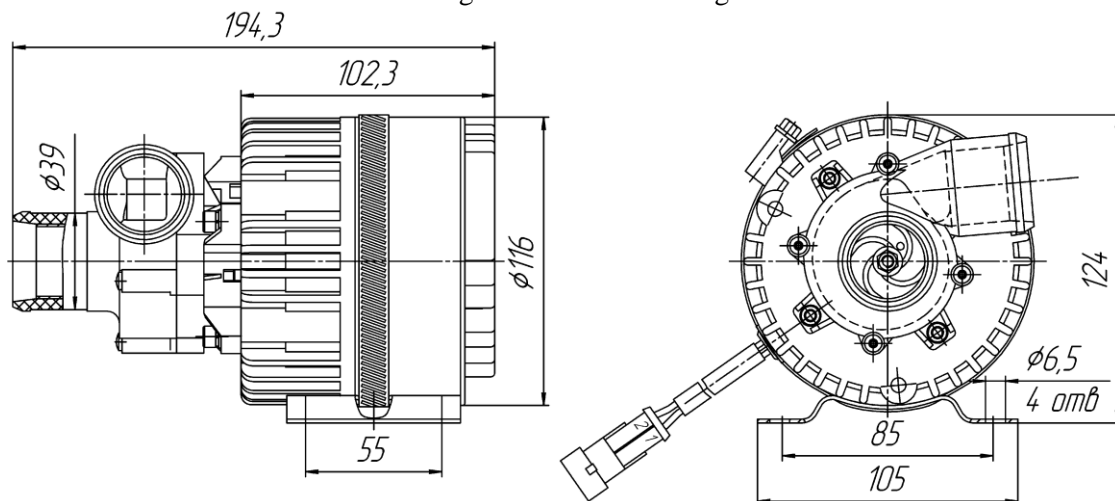


Figure 6 – Overall and mounting dimensions of the pump..

#### 10.5 Installation of the exhaust pipe.

Note that exhaust pipe has high operating temperature.

The exhaust pipe is fixed with clamps slightly downwards in the direction of exhaust. Round holes 3 mm in diameter for moisture drain shall be made at bends in the lowest points of the pipe. To optimize connection with the heater fitting and to guarantee better sealing there shall be done a lengthwise cut on the exhaust pipe. The cut shall be the same length as the male fitting. The exhaust pipe shall not transcend the overall dimensions of the vehicle. Discharge gas shall be vented out. The exhaust outlet and combustion air inlet shall be located so that to avoid resuction of discharge gas. As well, there shall be taken measures to avoid penetration of this gas inside the passenger compartment or their absorption by the fan. Moreover discharge gas shall not affect operation of the other assemblies of the vehicle. The exhaust outlet shall be assembled so that to avoid its blockage, ingress of snow and free drain of water.

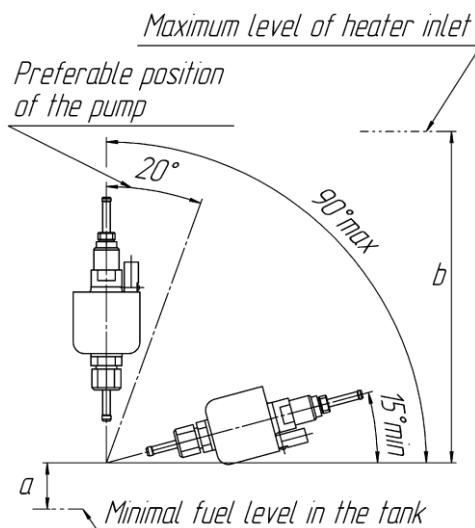
**The outlet of an exhaust pipe is forbidden to have against the running air stream at the movement of the car.**





### 10.6 Fuel pump and fuel pipe installation.

It is advisable to install fuel pump close to the fuel tank. The fuel-supply line and the fuel pump should be protected from heating, not to establish them near an exhaust pipe and on the engine. Spatial pipe location shall correspond to figure 7 (vertical position is advisable)

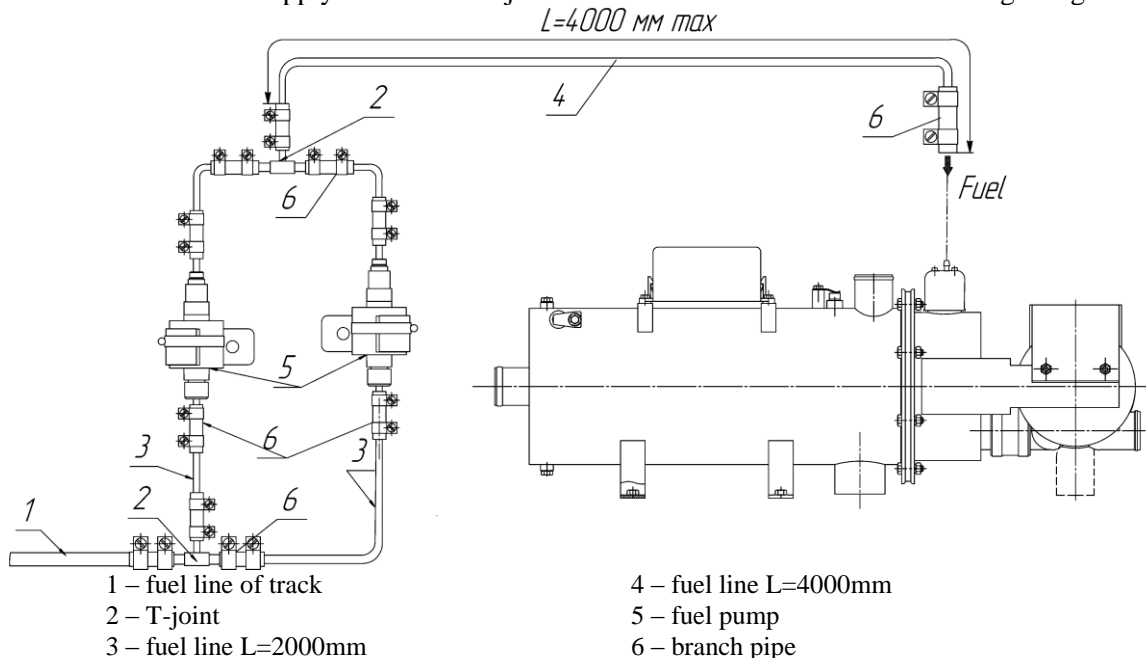


a- suction height: 700 mm.;

b - head between the fuel pump and heater: up to 1500 mm

Figure 7 – Allowable installation position of the fuel pump

Installation of a fuel-supply line from a T-joint the heater needs to be made according to fig. 8.



### Attention!

1. The fuel pipe and fuel pump shall be protected from heating. It is prohibited to install them close to the exhaust pipe or on the engine.
2. The fuel-supply line going from the fuel pump to the heater heater it is desirable to lay with preservation of an angle of lead.

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### **10.7 Assembling of the pre-heater electrical harness**

**Attention! It has to be installed at the switched-off XS5 socket.**

The pre-heater wiring harness shall be connected as shown in Figure 1 (pre-heater electric circuit).

While assembling note that heating, deformation or displacement of harness during operation of the vehicle is unacceptable. The wiring harness shall be fixed with plastic clamps to the components of the vehicle.

### **10.8. Installation of the control panel**

Control panel is installed in the cabin on the dashboard or any other comfortable for the driver place.

## **11 Post-installation checkout**

11.1 On completion of the assembling, the following shall be guaranteed:

- leak profess of the fluid system;
- leak profess of the fuel pipes;
- security of the pre-heater electric contacts attachment

11.2 Open the heater control valve to full. Remove air blocks from the fluid system of the vehicle following instructions of the vehicle manufacturer. Put vehicle heater fan switch in position of min rotation. Establish a safety lock 25A.

11.3 To check operability of a pump, having installed the switch on the panel in situation "II" and having convinced of work of a pump, to switch off it, having transferred the switch to situation "O".

11.4 To check a heater for working capacity as follows:

- a) to turn the temperature regulator knob on the control panel against the stop clockwise;
- b) to install the switch on the control panel in the position "I".

Start of a heater and its work in the automatic mode has to follow. During the stable work of a heater not less than 10 minutes can be switched off a heater, having translated the switch of inclusion in situation "O".

If in the course of start or work of a heater on any reason there was a failure, the light-emitting diode will start blinking. The quantity of blinkings through a pause shows the malfunction's number.

11.5 Start the pre-heater with the vehicle engine on and verify its operation.

11.6 After check of operability of a heater it is necessary to double-check tightness of connections of pipelines with a pump, the heater and the engine, if necessary to tighten clamps.