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CHAUFFAGE DE L'HABITACLE
REGLEMENT ECE 122R00

TYPE DE CHAUFFAGE:

ADVERS 20TCG-D38-24

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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

Pages 7- 9

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1. **GENERALITES**
GENERAL

1.1 Marque (raison sociale du constructeur): ADVERS
Make (trade name of manufacturer)

1.2 Type: 20TCG-D38
Type

CONFIGURATION 1 : 20TCG-D38-24


1.2.1 Dénomination(s) commerciale(s): 20TCG-D38-24
Commercial name(s)

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 heater
In the case of components, location and method of 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 «ADVERS»
446253, Region Samara,
u.v. Bezenchuk,
Central str. 111, Russia

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

2.1 Marque (raison sociale du constructeur): ADVERS
Make (trade name of manufacturer)

2.2 Type: 20TCG-D38
Type

CONFIGURATION 1 : 20TCG-D38-24

2.2.1 Dénomination(s) commerciale(s): 20TCG-D38-24
Commercial name(s)

2.3 Moyens d'identification du type, s'il est indiqu  sur le
système 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'épreuve: 2,0 bars
Test pressure

2.7.1 Pression d'épreuve de l'unité à basse pression: not applicable
Test pressure low-pressure unit

2.8 Description détaillée, plan de masse et notice de
montage du chauffage a combustion et de l'ensemble
de ses éléments: Pages 7-9
*Detailed description, layout drawings and mounting
description of the combustion heater and all its components*

Carburant Natural Gaz
Fuel CNG

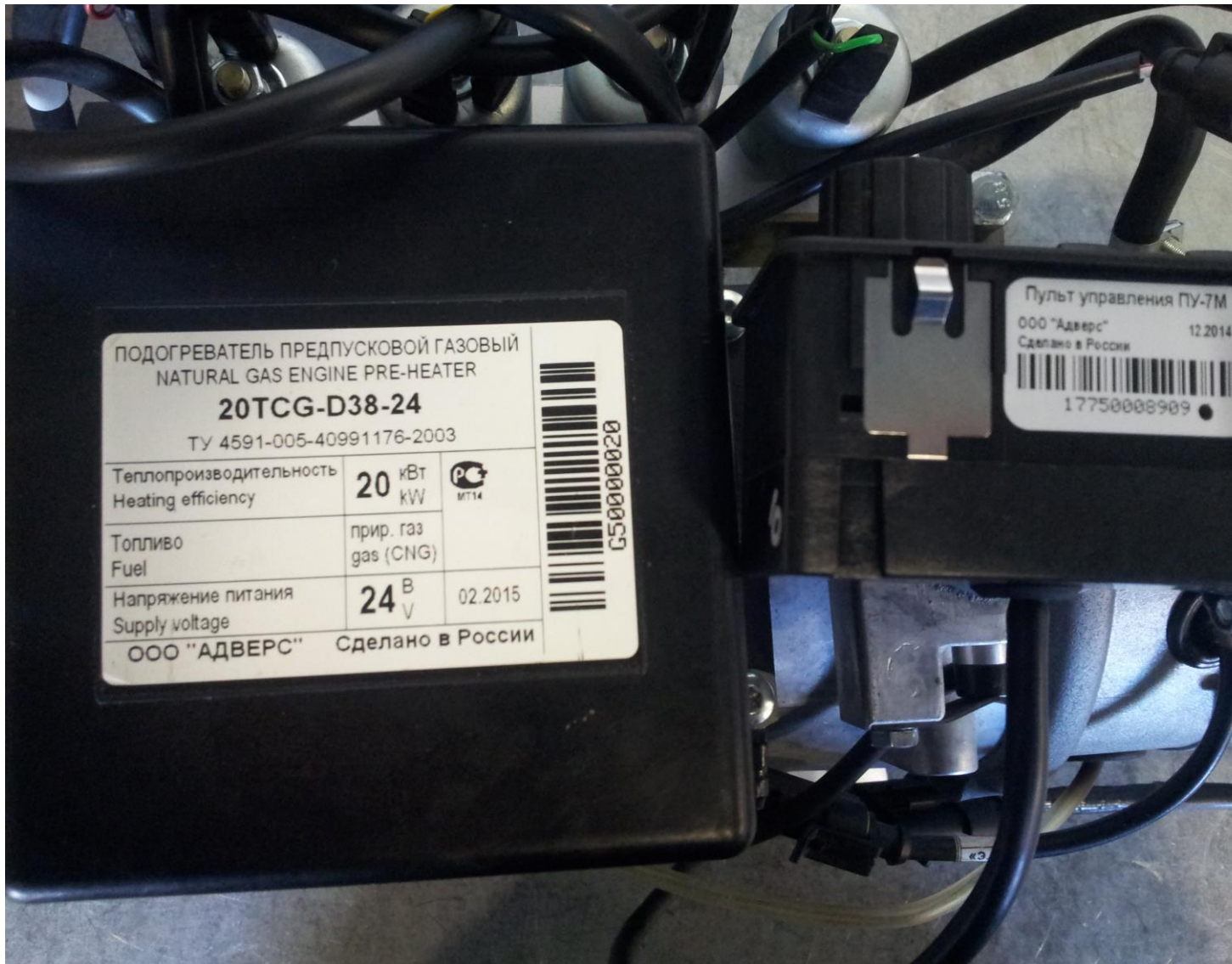
Fluide caloporteur Coolant
Transfer medium



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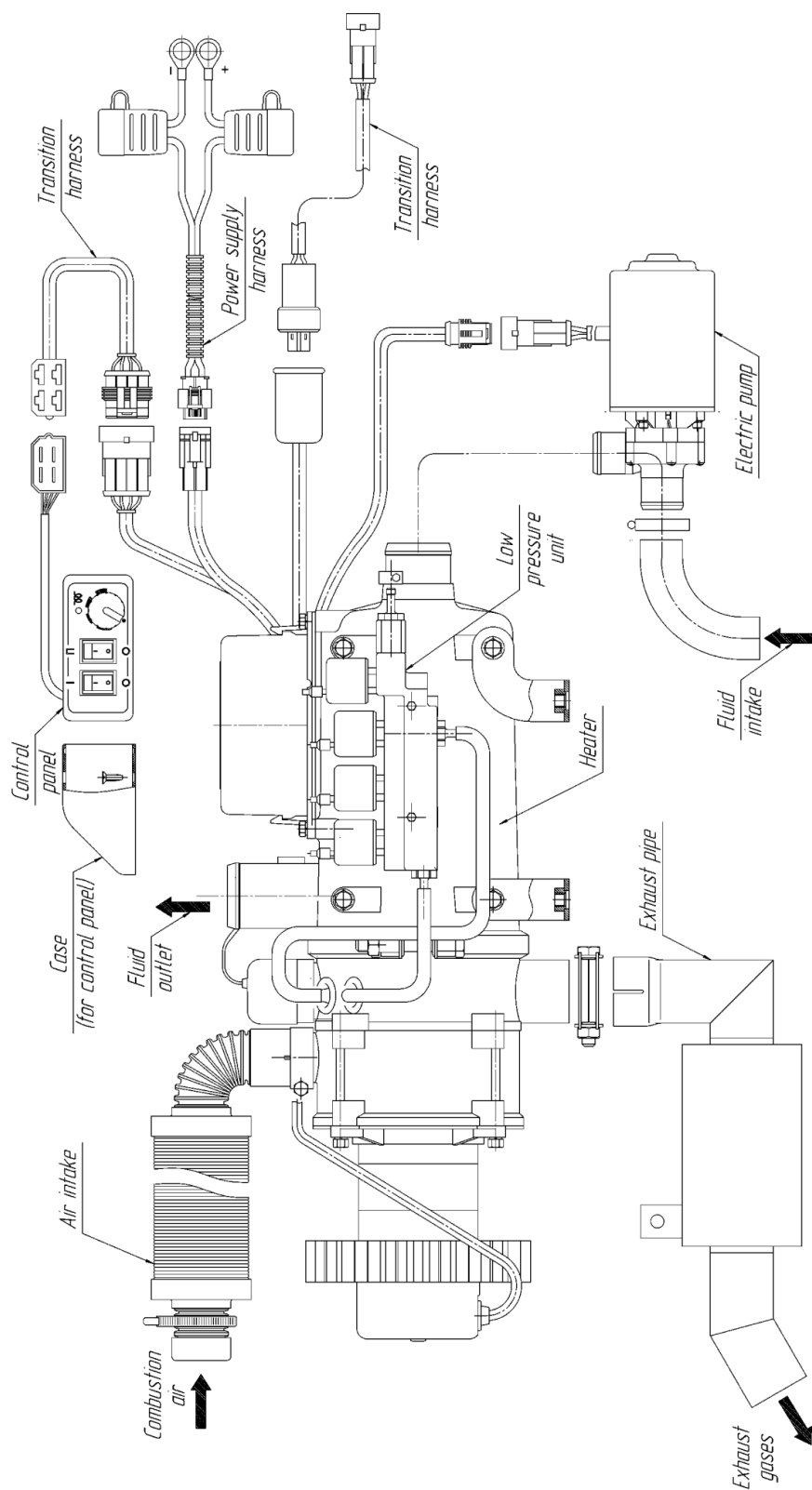
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Photograph of the manufacturer's label





Drawing of the combustion heater





MOUNTING DESCRIPTION

10 Main requirements for the pre-heater and its units installation

Pre-heater 20TCG-D38 is designed for installation on automobiles and buses. Observe all requirements specified below for installation of the pre-heater at a vehicle.

10.1 General pre-heater installation requirements

10.1.1 Install pump and heater below the level of the radiator overflow tank.

10.1.2 Coolant in the heater must flow in the same direction as coolant in the vehicle motor cooling system.

10.1.3 Remove airlocks from the liquid cooling system and the heater itself after installation. All pipe joints must be tight.

10.1.4 Install gas and circulation pipes in a manner avoiding their contact with hot and vibrating surfaces of the vehicle.

10.1.5 Do not use the pre-heater with frozen coolant.

10.1.6 Remove air from the cooling system after any works (repair or liquid change) in accordance with section 10.1.3.

10.2 Heater installation

Good practice is to install the heater on vehicle frame. Do not install the heater onto the engine or inside the vehicle cabin or passenger compartment.

Install the heater in accordance with Fig. 6 and section 10.1.1. To facilitate maintenance, install the heater in a way that allows dismantling of the electronic unit, the temperature and overheating sensors, and the air intake.

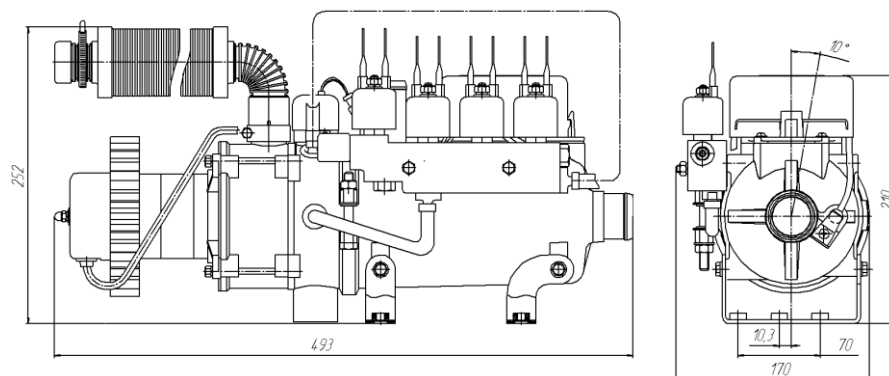


Fig. 6 Permissible heater operating positions



10.3 Pump installation

Choose a place in the vehicle for the pump as specified in 10.1.1 and 10.1.2. Operating position of electric motor with the pump must be from horizontal to vertical, with pump side down.

10.4 Exhaust pipe installation

Choose a place for installation considering high temperatures during operation of the exhaust pipe. Fasten the exhaust pipe with wrapping ties slightly sloped towards the exhaust outlet. The pipe must not extend beyond vehicle outlines. Install the exhaust pipe and the combustion air intake in a way that prevents suction of exhaust gases into the air intake or into the vehicle fan and to prevent the gases from ingress into the passenger compartment. Moreover, exhaust gases must not hinder operation of other vehicle units. Install the exhaust pipe outlet in a way that prevents clogging, ingress of snow and facilitates free draining of trapped water. **Do not install the exhaust pipe outlet against incoming airflow during vehicle movement.**

10.5 Air intake installation

Combustion air must not be sucked from the driver's cabin, passenger compartment, or luggage compartment of the vehicle. Install the air intake opening in a way that prevents clogging, ingress of snow, and facilitates free draining of trapped water. **Do not install the air intake opening against incoming airflow during vehicle movement.**


10.7 Installation of pre-heater electric wiring

Install pre-heater wire harnesses in accordance with the pre-heater electric circuit diagram shown in Fig. 1. Install the harnesses in a way that prevents their heating, deformation, and moving during vehicle operation. Fix the harnesses to vehicle parts with plastic wrapping ties.

Attention! Remove the fuses prior to installation.

10.8 Control panel installation

Install the control panel inside the vehicle cabin on the dashboard or in any other place suitable for the driver. Install panel with special housing.

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11 Pre-heater check after installation

11.1 During installation, ensure:

- tightness of the liquid system;
- tightness of gas pipe joints;
- secure fastening of pre-heater wire harnesses and wiring.

11.2 Remove air from the liquid circuit of the vehicle following vehicle manufacturer's instructions. Install the 25 A fuses.

Prior to pre-heater start, make sure all gas fittings, pipes, and joints are tight.

11.3 To check operability of a pump, transfer the key switch 2 (fig. 5) to position "II" and having convinced of work of a pump, to switch off it, transfer the key switch to position "O".

11.4 To check operability of a heater, transfer the keyboard switch 1 (fig. 5) to the situation "I"..

The pre-heater must start into the automatic mode. During the stable work of a heater not less than 10 minutes can be switched off a heater, transfer the key switch 1 (fig. 5) to position "O".

If in the course of start or work of a heater on, any reason there was a failure, on the control panel the light-emitting diode will start blinking. The quantity of blinkings corresponds to a malfunction code. See Table 1 for description of malfunction codes.

11.5 Start the pre-heater with the engine on and check functioning of the pre-heater.