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CHAUFFAGE DE L'HABITACLE

REGLEMENT ECE 122R00

TYPE DE CHAUFFAGE:

ADVERS 30TCG-12/24

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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: 30TCG
Type

CONFIGURATION 1 : 30TCG-12/24


1.2.1 Dénomination(s) commerciale(s): 30TCG-12
Commercial name(s) 30TCG-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 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: 30TCG
Type

CONFIGURATION 1 : 30TCG-12/24

2.2.1 Dénomination(s) commerciale(s): 30TCG-12
Commercial name(s) 30TCG- 24

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

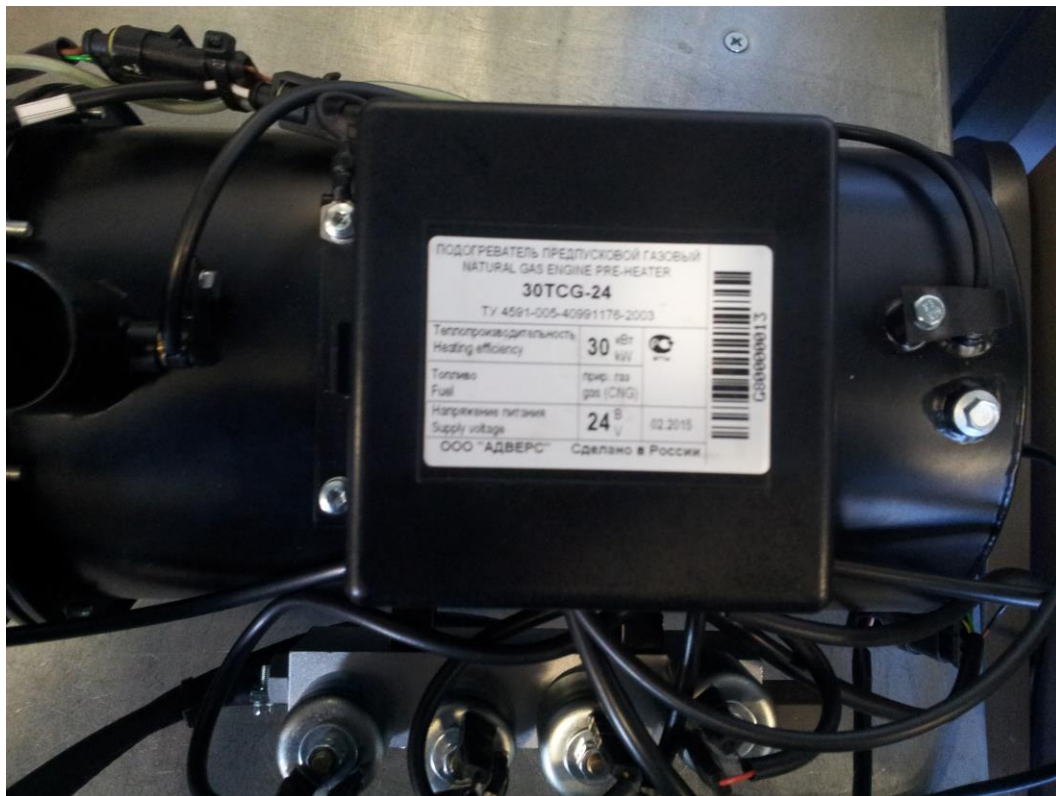
Fluide caloporteur Coolant
Transfer medium



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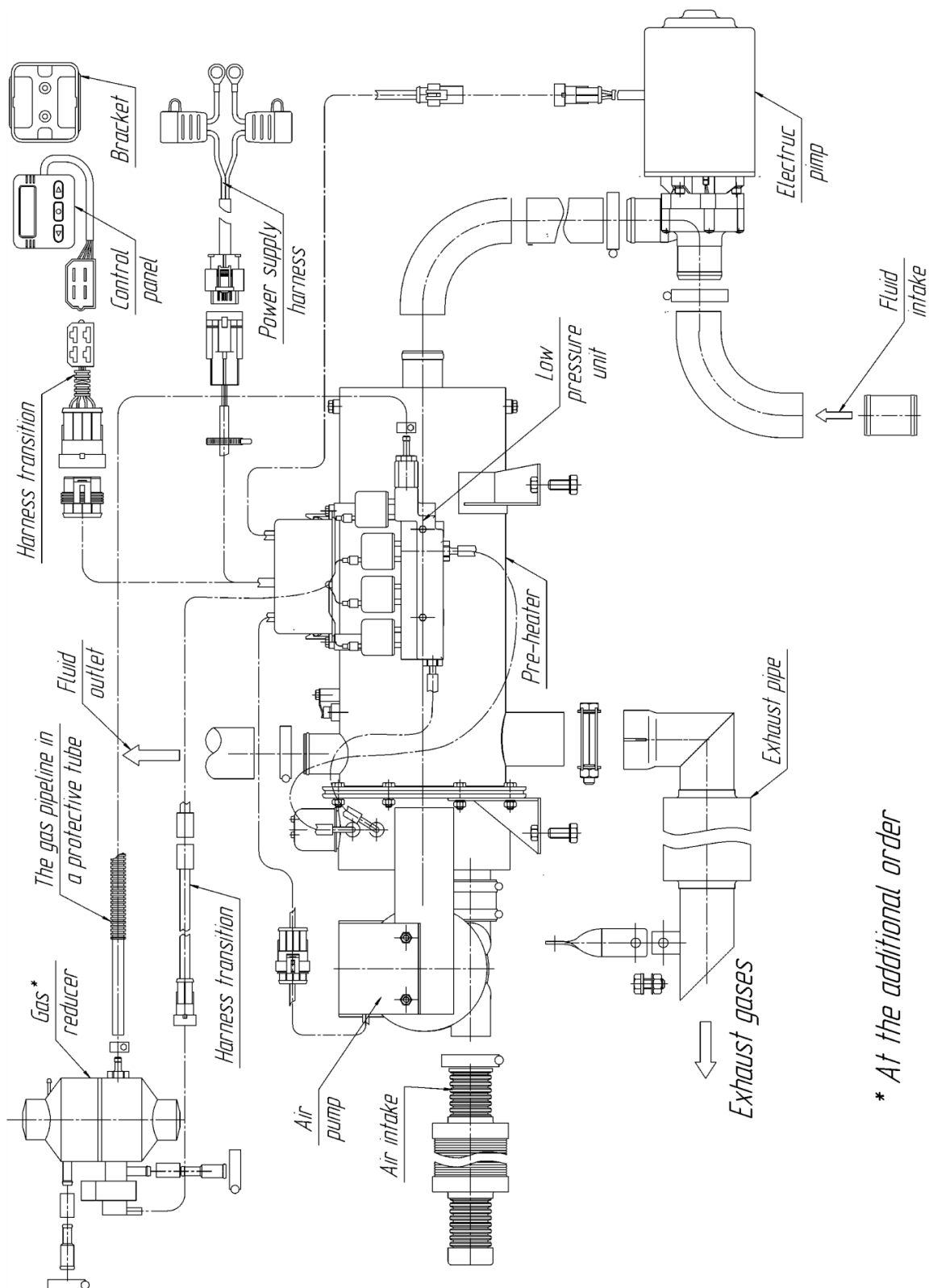
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Photograph of the manufacturer's label

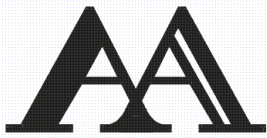




Drawing of the combustion heater



* At the additional order



MOUNTING DESCRIPTION

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

Observe all requirements specified below for installation of 30TCG pre-heater at a vehicle.

10.1 General pre-heater installation requirements

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

10.1.2 The coolant in the heater must flow in the same direction as the 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 Coolant pipes must not contact hot and vibrating surfaces of the vehicle.

10.1.5 Remove air (see 10.1.3) from the cooling system after any maintenance (change of liquid) or repairs.

10.1.6 To improve vehicle heating and shorten the time it takes, good practice is to direct the flow of coolant from the heater to the inlet of engine pump.

10.1.7 To shorten heating time, start the engine with the pre-heater operating. Pre-heater software allows engine startup under short-time (up to 15 sec.) battery undervoltage down to 9V (18V).

10.2 Installation of the heater

Choose a place for the heater as specified in 10.1.1. Install the heater onto a horizontal surface. Outline and installation dimensions of the heater are shown on Fig. 4. Do not install the heater onto the engine or inside the vehicle cabin or driver's compartment.

To facilitate maintenance, install the heater in a way to allow dismantling the electronic unit, glow plugs, the temperature and overheating sensors, and the air intake.

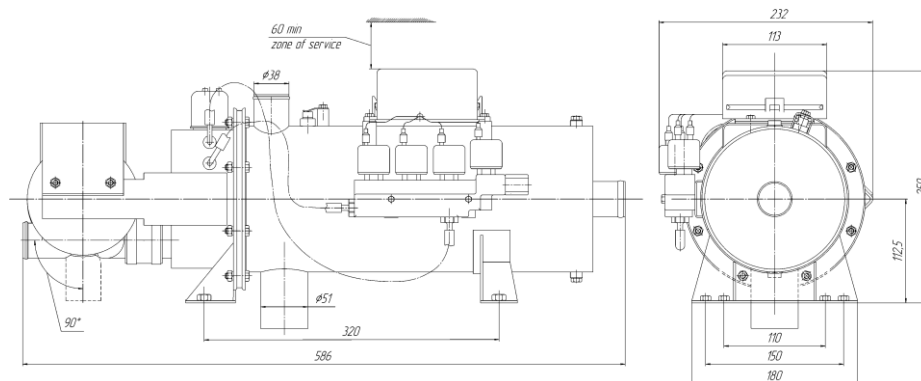



Fig. 4 Possible operating position of the heater

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10.3 Requirement for installation of the air pump intake

Install the air pump intake on the heater in a way to prevent clogging, ingress of snow and to facilitate draining of trapped water. Install the air intake opening in a spot free from contamination.

Do not install the air intake opening against incoming airflow during vehicle movement.

10.4 Installation of the electric motor with the pump

Choose a place for the pump as specified in 10.1.1 and 10.1.2. The pump may be installed horizontally or vertically downwards. Install the pump below the heater to supply coolant to the inlet of the heater. An approximate view of the pump is shown on Fig. 2.

10.5 Exhaust pipe installation

Choosing a place for installation, consider high temperatures during operation of the exhaust pipe. Fasten the exhaust pipe with collars. The pipe must be installed slightly sloped towards the exhaust outlet and must not extend beyond vehicle outlines. Install the exhaust pipe and the combustion air intake in a way to prevent suction of exhaust gases into the air intake or into the vehicle fan and to prevent the gases from ingress into the vehicle cabin. Moreover, exhaust gases must not hinder operation of other vehicle units. Install the exhaust pipe outlet in a way to prevent clogging, ingress of snow and to facilitate draining of trapped water.

Do not install the exhaust pipe outlet against incoming airflow during vehicle movement.


10.6 Installation of pre-heater wiring

Attention! Prior to installation, disconnect XP6 connector.

Install pre-heater wire harnesses acc. to the pre-heater electric circuit diagram shown on Fig. 1. Install the harnesses in a way to prevent their heating, deformation, and moving during vehicle operation. Fix the harnesses with plastic collars to vehicle parts.

10.7 Control panel installation

Install the control panel inside the vehicle cabin on the dashboard or in any other place suitable for the driver. The panel is installed on a special bracket

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11 Starting 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 coolant circuit of the vehicle following vehicle manufacturer's instructions. Install 25 A fuses.

11.3 Check pump functioning by pressing the right button on the control panel. If the pump functions correctly, switch it off by pressing the right button one more time.

11.4 Check functioning of the pre-heater. Press the middle button to start the pre-heater.

The pre-heater must start into the automatic mode. Wait for 10 minutes. If the pre-heater operates stably (panel display must change as shown on Fig. 4.5), switch it off by pressing the middle button one more time.

Should a fault happen during launch or operation of the pre-heater, a malfunction code will appear on the panel display. 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.

11.6 After the functional check, check tightness of connections