

TECHNICAL SPECIFICATION

TYPE ATESO ALFA

1. GENERAL

1.	GENERAL	TO DNO
1.1.	Make (trade name of manufacturer):	BRANO a.s.
1.2.	Type and general commercial description(s):	ATESO ALFA
1.2.1	Variants:	D2 (diesel 2 kW) **
1.2.2.	Versions:	12 and 24 V *
1.3.	Location of that marking:	At the label (usually)
1.4.	Category of heater:	Independent combustion heater
1.5.	Name and address of manufacturer:	BRANO a.s. Opavska 1000 747 41 Hradec nad Moravicí Czech Republic
		Regisetred in Companies Register
		at regional Court in Ostrava,
		Section B, Insert No.387
		Reg.No.: 45193363
		VAT Reg.No.: CZ45193363
1.6	Address (es) of assembly plant (s):	
1.0		

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BRANO a.s. SBU Commercial Vehicles Na Racanech 100 514 01 JILEMNICE Czech Republic

** D2 designation means: D ... fuel is diesel, 2 ... max heating capacity is 2kW

* To operate on 24V it is necessary to change the parameter tables in the control unit by diagnostic software



2. GENERAL CONSTRUCTION CHARACTERISTICS OF THE HEATER

- 2.1. PRODUCT DESCRIPTION
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03-9940.186

(http://breezeservice.webnode.cz/dokumenty/)



2. GENERAL CONSTRUCTION CHARACTERISTICS OF THE HEATER

2.1 PRODUCT DESCRIPTION

The heater is designed to heat the interior compartments of motor vehicles, box-van trucks, cabs of heavy machinery, caravans, immobile dwelling cells, yachts etc., either in recirculating operation only or with a possibility to intake the air from the outside area. It is not intended for installation into vehicles used for transport of hazardous freight.

Heater ATESO ALFA is a heating device using the heat generated by burning diesel oil for heating of air, while its heating capacity can be regulated continuously. Apart from the heater itself the set comprises the following components allowing its right function: an electric pump, a cable harness, an intake silencer, an exhaust and parts necessary for installation in the vehicle.

There is one variant of the heater - D2. D2 designation means: D ... fuel is diesel, 2 ... max heating capacity is 2kW.

There are two versions of the heater for voltage 12V and 24V. Heaters supplied from the factory are designed for 12V. To operate on 24V it is necessary to change the parameter tables in the control unit by diagnostic software.

Main parts of the heater are: an aluminium heat exchanger, a combustion chamber, an electric motor with fans for heated air and combustion air, a housing, a rotation sensor, a flame indicator, an overheat thermostat, a glow plug and a control device with an output air sensor. Timer or manual control is possible to use for control of the heater.

Heating capacity	[W]	900 - 1800
Rated voltage	[V]	12/24*
Operating voltage range - 12V	[V]	10,5 – 15
Operating voltage range - 24V	[V]	21 -30
Power consumption – on startup	[W]	110 ±10%
Power consumption - in operation	[W]	25 ±10%
Fuel		Diesel EN 590, light fuel oil, BIO-oil ČSN 65 6509

2.2 TECHNICAL SPECIFICATION



Fuel consumption		0,10 - 0,22
Capacity regulation		Continuously adjustable (within the ten steps) from min. to max
Adjustable temperature range	[°C]	1 – 30
El. motor speed – max	[RPM]	4800 ± 50
El. motor speed – min	[RPM]	2800 ± 50
Regulated speed	[RPM]	1980 ± 50
Temperature at purging	[°C]	80 ± 5
The temperature of heating air to open the fuse overhe	120 – 150	
Temperature of the flame sensor at maximum capacity	[°C]	200 – 300
Frequency of the pump at maximum capacity	[Hz]	3,0 ± 0,1
Hot air output (at backpressure 0Pa)	[m ³ /hod]	85
Pressure in the fuel tank max	[kPa]	± 10
Ambient operating temperature heating	[°C]	-40 to +65
Operating temperature range heating	[°C]	-40 to +40
Weight of the heater	[kg]	2,2
Weight of the complete set	[kg]	2,8
The electric installation conforms		ČSN 30 4002
Electromagnetic compatibility corresponds		EHK 010.04
Environmental resistance conforms to	ČSN EN ISO 9227 NSS	
- el. pump and exhaust	U24	
- other parts	U23	



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2.3 SERVIS BOOK (http://breezeservice.webnode.cz/dokumenty/) 03-9940.186

Service book is not part of this document, it can be found on the website: http://breezeservice.webnode.cz/dokumenty/