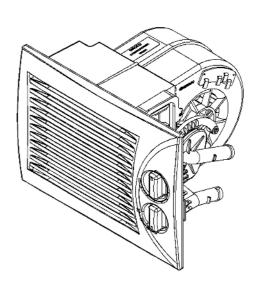


ARIZONA

- 1 Device description
- 2 Operation
- 3 Mounting information

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- 4 Trouble shooting
- 5 Security advice



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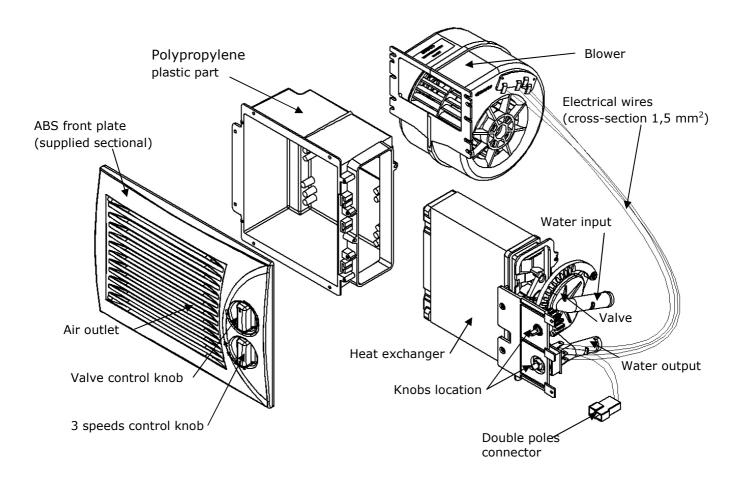
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1 - Device description

ARIZONA heater consist of a blower, a coil, a plastic part and a removable front plate. Plastic part is made from polypropylene. Front plate is made from heat and impact resistant ABS. Heater can operate under three different speeds: a control knob enables to select speed from front plate. There are two input air supply (on heater side), an output air supply (on front plate) and an input-output cooling water supply. Heater including an integrated valve controlled from front plate with a knob.

ARIZONA's front plate is available in different colors: white, grey, anthracite or black. Heater can be equipped with 600, 400 or 300 blower that supplied in 12 V or 24 V with connections pipes diameters of 16 mm.



Product part numbers:

Voltage	Front plate	ARIZONA 600	ARIZONA 400	ARIZONA 300
voltage	color	Part number	Part number	Part number
12 V	White	0120 0001	0120 0101	0120 0201
	Grey	0120 0002	0120 0102	0120 0202
	Anthracite	0120 0003	0120 0103	0120 0203
	Black	0120 0004	0120 0104	0120 0204
24 V	White	0120 0005	0120 0105	0120 0205
	Grey	0120 0006	0120 0106	0120 0206
	Anthracite	0120 0007	0120 0107	0120 0207
	Black	0120 0008	0120 0108	0120 0208

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2 - Operation

Cooling water, beforehand heated by the vehicle, run on coil. In the same time, fan unit blows fresh air through the heat exchanger. Then, air temperature rise up. Finally, air output evacuate hot air.

Operating conditions:

Product must be on a ventilated place.

Operating temperature have to be between -30°C and +80°C.

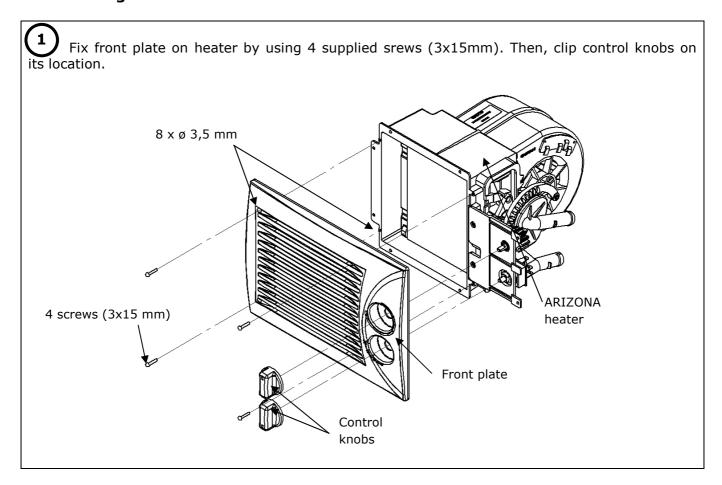
Cooling fluid must be antifreeze and anticorrosive for copper and aluminum. Use a cooling fluid officially recognize by automotive manufacturers.

Technical data:

Туре	Voltage	Electrical power	Weight	Nominal air flow	Heating capacity	L depth (see §3 step 2)
ARIZONA 600	12/24 V	150 W	2,3 kg	380 m³/h	6,10 kW	227 mm
ARIZONA 400	12/24 V	120 W	2 kg	285 m³/h	5,00 kW	218 mm
ARIZONA 300	12/24 V	55 W	2 kg	200 m³/h	4,35 kW	218 mm

Optimum heating capacity is reached with air inlet temperature of 0° C, nominal air flow of 0.5 m^3 /h, free ethylene glycol water and water inlet temperature of 100° C.

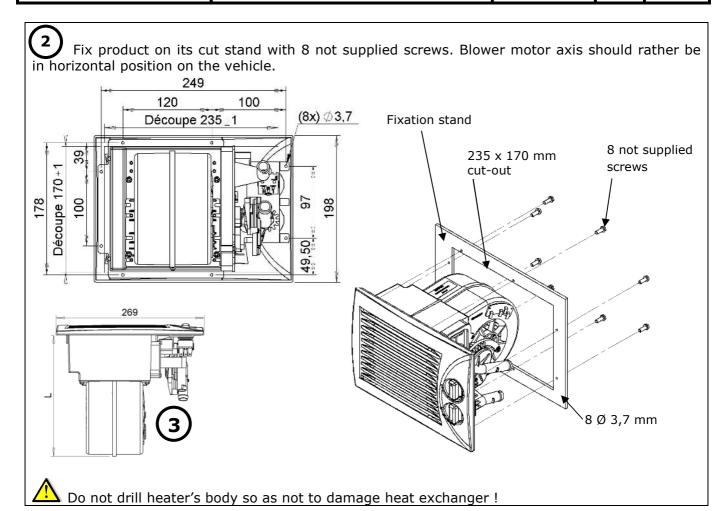
3 - Mounting information

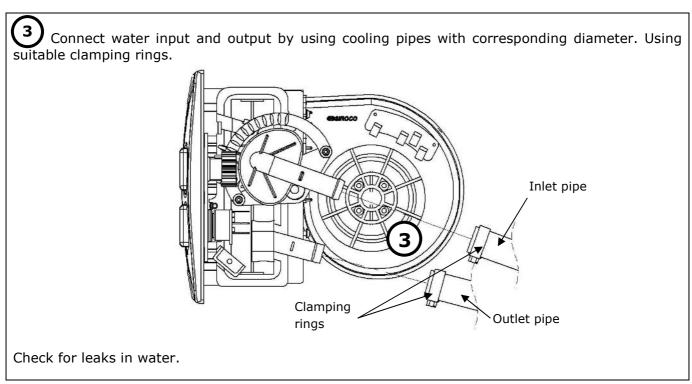




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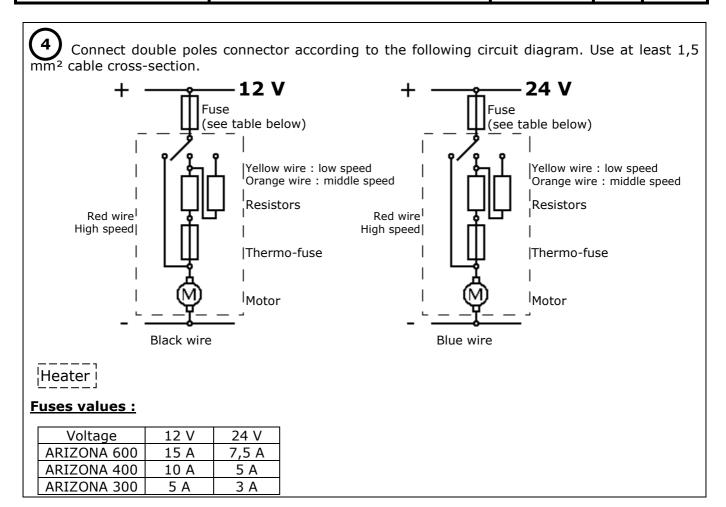






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4 - Trouble shooting

Fault found	Possible cause	Action to take
Blower not working	Fuse defective	Check fuse position and amperage. If necessary
		replace it. Before renew a fuse, always identify
		causes.
		Examine blowers for a blockage or another type of
		defect and rectify the cause.
	No vehicle power	Switch on ignition and/or main battery switch.
		Check battery connections.
		Check vehicle operating instructions for possible
		advice.
	Connecting cable	Replace cable. Check for correct cable routing and
	damaged or torn out	connections according to the circuit diagram.
	Electrical connections	Check connecting wires according to the circuit
	reversed	diagram and if necessary assemble correctly.
	Blower switch defective	Replace the switch with a new original component.
	Blockage in fan unit	Rectify cause of blockage, e.g. object in impeller. If
		necessary order new unit.
	Blower motor defective	Replace plastic part + motor.
Blower doesn't operate	No blower power	Check connection on blower switch.
at all speeds	Defective resistance	Replace plastic part + motor.
Blower only runs at low	Fuse defective	Replace fuse.
and middle speed		
Unit cannot be switched	Short-circuit in cable	Rectify circuit diagram. If necessary, install new
off		cable.

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Fault found	Possible cause	Action to take
Blower only operate at	Rated voltage is wrong	Rated voltage of unit and on-board circuit must be
reduced power		the same. Order new unit.
	Air nozzles closed or	Open nozzles or free up inlet/outlet openings.
	covered	
	Electrical wires are underdimensioned	Install recommended cable cross-section.
	Heat exchanger severely	Carefully clean avoiding damage which can lead to
	contaminated	leaks. WARNING! Observe safety instructions.
Heating doesn't function	Vehicle engine is not running	Start engine.
	Cooling water still cold	Wait until the engine reaches operating temperature
	Water valve closed	Open valve. See the vehicle manufacturer's operating instructions.
	Water lines kinked or squashed	Eliminate fault by installing correctly.
	Water pump pressure insufficient	Heat exchanger does not have cooling water flowing through. Install additional pump or more powerful
		one.
Reduced heating performance	Volumetric air flow from blower is too low	See action to take under "Blower"
	Water flow rate through	Open valve to the maximum.
	heat exchanger is too	Water lines kinked or squashed. Relay hoses. Water
	low	pump pressure too low (see above for action).
	Air in heat exchanger	Flush-out water circuit.
		When the pumping pressure is sufficient the heater is
		self bleeding. Install additional or more powerful
		water pump.
	Unit is underdimensioned	Install a more powerful unit.
	Insufficient pumped	Install additional pump or a more powerful one.
	water pressure	
	Heat exchanger severely	Carefully clean avoiding damage which can lead to
	contaminated	leaks.



Products which have already been pulling appart are not covered by guaratee.

5 - Security advice

Consider the following advice for your own safety:

- Installation must only be done by well-formed and authorized specialists.
- Product must operate on a well-ventilated place.
- Products have to be used only according to the intended use. Products shall not used in improper environment. Pay attention to guarantee.
- Before using products, ensure that regulations and laws are strictly adhered according to the country.
- For security reasons (fire hazards), fuses with required amperage must be used to protect electrical connections.
 - Cut electrical connections before working on product.
 - Do not get into contact with the heat exchanger and its connections.
 - Do not grip into the unit and do not put objects inside.