



Product fiche / ERP Information Form

| | | | | |
|---|--|---|------------------|------------------|
| Supplier name | |  Gassero <small>technology for your comfort</small> | | |
| Model Name | | ALUBOX 50 | ALUBOX 70 | ALUBOX 90 |
| Seasonal Space heating efficiency class | | A | A | A |
| Rated heat output | P_{rated} | 47,8 kW | 63,4 kW | 86,3 kW |
| At rated heat output and high-temperature regime, useful heat capacity (*) | P_4 | 47,8 kW | 63,4 kW | 86,3 kW |
| At 30 % of rated heat output and low-temperature regime, useful heat capacity (**) | P_1 | 9,18 kW | 12,8 kW | 17 kW |
| At rated heat output and high-temperature regime, useful efficiency (*) | η_4 | NA % | NA % | 88,6 % |
| At 30 % of rated heat output and low-temperature regime, useful efficiency (**) | η_1 | NA % | NA % | 97,7 % |
| Yardımcı Elektrik Kullanımı | | | | |
| at full load | e_{lmax} | 0,052 kW | 0,097 kW | 0,116 kW |
| at part load | e_{lmin} | 0,016 kW | 0,016 kW | 0,026 kW |
| in stand by mode | P_{sb} | 0,005 kW | 0,005 kW | 0,005 kW |
| Standby heat loss | P_{stby} | 0,090 kW | 0,090 kW | 0,121 kW |
| Ignition burner power consumption | P_{ign} | NA | NA | NA |
| Emissions of Nitrogen Oxide | NO_x | 37 mg / kWh | 28 mg / kWh | 39 mg / kWh |
| | | | | |
| Seasonal Space heating energy efficiency | η_s | 93 % | 93 % | 92,5 % |
| Annual energy consumption | Q_{HE} | 148 GJ | 197 GJ | 269 GJ |
| Sound power level indoors | L_{WA} | 56,6 dB | 56,2 dB | NA |
| Condensing boiler | | Yes | Yes | Yes |
| Low temperature boiler | | No | No | No |
| B1 boiler | | No | No | No |
| Combination heater | | No | No | No |
| Cogeneration space heater | | No | No | No |
| | | | | |
| Temperature controls | | | | |
| Supplier name | | Siemens + TURKEY | | |
| Model name | | LMS 14.047B109 | | |
| Temperature control class ¹ | | VI | | |
| Contribution of temperature control to seasonal efficiency | | 4 % | | |
| Manufacturer | Gassero Isı Teknolojileri Sanayi Limited Şirketi | | | |
| Manufacturing address | İstanbul Endüstri ve Ticaret Serbest Bölgesi 4. Sokak Parsel No: 110/2 Tuzla/İstanbul/ TÜRKİYE | | | |
|  Warning and information | | | | |
| Before any assembly, disassembly, installation or maintenance the user and installation manual has to be read attentively and to be followed. | | | | |
| 1) Definition of class VI thermostat | | | | |
| <p>— Class VI - Weather compensator and room sensor, for use with modulating heaters: A heater flow temperature control that varies the flow temperature of water leaving the heater dependent upon prevailing outside temperature and selected weather compensation curve. A room temperature sensor monitors room temperature and adjusts the compensation curve parallel displacement to improve room comfort. Control is achieved by modulating the output of the heater.</p> | | | | |
| <p>(*) High-temperature regime means 60 °C return temperature at heater inlet and 80 °C feed temperature at heater outlet. (**) Low temperature means for condensing boilers 30 °C, for low-temperature boilers 37 °C and for other heaters 50 °C return temperature (at heater inlet).</p> | | | | |
| In order to CE directives EU type inspection (Module B) has been made by Szutest in Brno laboratory. Production process inspection has been made by Kiwa certification organisation in order to module D production process based on quality assurance. Conformity marking: "CE 0063" | | | | |
| This document has been prepared in order to EU 811/2013 and EU 813/2013 regulations. | | | | |

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Supplier name

Gassero
technology for your comfort

Model Name

ALUBOX 115 ALUBOX 125 ALUBOX 150

Seasonal Space heating efficiency class

A A A

Rated heat output

P_{rated} 109,5 kW 120,8 kW 139,8 kW

At rated heat output and high-temperature regime, useful heat capacity (*)

P_4 109,5 kW 120,8 kW 139,8 kW

At 30 % of rated heat output and low-temperature regime, useful heat capacity (**)

P_1 20,5 kW 23,6 kW 26,8 kW

At rated heat output and high-temperature regime, useful efficiency (*)

η_4 88,3 % 88,4 % 88,4 %

At 30 % of rated heat output and low-temperature regime, useful efficiency (**)

η_1 97,8 % 97,6 % 97,5 %

Electricity Consumption

at full load

e_{lmax} 0,203 kW 0,212 kW 0,313 kW

at part load

e_{lmin} 0,028 kW 0,022 kW 0,023 kW

in stand by mode

P_{sb} 0,005 kW 0,005 kW 0,005 kW

Standby heat loss

P_{stby} 0,121 kW 0,130 kW 0,130 kW

Ignition burner power consumption

P_{ign} NA NA NA

Emissions of Nitrogen Oxide

NO_x 43 mg / kWh 46 mg / kWh 44 mg / kWh

Seasonal Space heating energy efficiency

η_s 92,5 % 92 % 92 %

Annual energy consumption

Q_{HE} 341 GJ 377 GJ 436 GJ

Sound power level indoors

L_{WA} NA NA NA

Condensing boiler

Yes Yes Yes

Low temperature boiler

No No No

B1 boiler

No No No

Combination heater

No No No

Cogeneration space heater

No No No

Temperature controls

Supplier name

Siemens + TURKEY

Model name

LMS 14.047B109

Temperature control class ¹

VI

Contribution of temperature control to seasonal efficiency

4 %

Manufacturer

Gassero Isı Teknolojileri Sanayi Limited Şirketi

Manufacturing address

İstanbul Endüstri ve Ticaret Serbest Bölgesi 4. Sokak Parsel No: 110/2 Tuzla/İstanbul/ TÜRKİYE



Warning and information

Before any assembly, disassembly, installation or maintenance the user and installation manual has to be read attentively and to be followed.

1) Definition of class VI thermostat

— Class VI - Weather compensator and room sensor, for use with modulating heaters: A heater flow temperature control that varies the flow temperature of water leaving the heater dependent upon prevailing outside temperature and selected weather compensation curve. A room temperature sensor monitors room temperature and adjusts the compensation curve parallel displacement to improve room comfort. Control is achieved by modulating the output of the heater.



(*) High-temperature regime means 60 °C return temperature at heater inlet and 80 °C feed temperature at heater outlet.

(**) Low temperature means for condensing boilers 30 °C, for low-temperature boilers 37 °C and for other heaters 50 °C return temperature (at heater inlet).

In order to CE directives EU type inspection (Module B) has been made by Szutest in Brno laboratory. Production process inspection has been made by Kiwa certification organisation in order to module D production process based on quality assurance. Conformity marking: **"CE 0063"**

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| | | | |
|--|--|---|-------------------|
| Supplier name | |  <small>technology for your comfort</small> | |
| Model Adı | | ALUBOX 208 | ALUBOX 290 |
| Seasonal Space heating efficiency class | | A | A |
| Rated heat output | P_{rated} | 192,0 kW | 270,0 kW |
| At rated heat output and high-temperature regime, useful heat capacity (*) | P_4 | 192,2 kW | 270,2 kW |
| At 30 % of rated heat output and low-temperature regime, useful heat capacity (**) | P_1 | 39,0 kW | 53,0 kW |
| At rated heat output and high-temperature regime, useful efficiency (*) | η_4 | 87,8 % | 87,8 % |
| At 30 % of rated heat output and low-temperature regime, useful efficiency (**) | η_1 | 96,6 % | 96,5 % |
| Electricity Consumption | | | |
| at full load | $e_{l_{max}}$ | 0,260 kW | 0,310 kW |
| at part load | $e_{l_{min}}$ | 0,024 kW | 0,040 kW |
| in stand by mode | P_{sb} | 0,005 kW | 0,005 kW |
| Standby heat loss | P_{stby} | 0,704 kW | 0,704 kW |
| Ignition burner power consumption | P_{ign} | NA | NA |
| Emissions of Nitrogen Oxide | NO_x | 32 mg / kWh | 62 mg / kWh |
| Seasonal Space heating energy efficiency | | | |
| Seasonal Space heating energy efficiency | η_s | 91,5 % | 91,5 % |
| Annual energy consumption | Q_{HE} | 605 GJ | 851 GJ |
| Sound power level indoors | L_{WA} | NA | NA |
| Condensing boiler | | Yes | Yes |
| Low temperature boiler | | No | No |
| B1 boiler | | No | No |
| Combination heater | | No | No |
| Cogeneration space heater | | No | No |
| Temperature controls | | | |
| Supplier name | | Siemens + TURKEY | |
| Model name | | LMS 14.047B109 | |
| Temperature control class ¹ | | VI | |
| Contribution of temperature control to seasonal efficiency | | 4 % | |
| Manufacturer | Gassero Isı Teknolojileri Sanayi Limited Şirketi | | |
| Manufacturing address | İstanbul Endüstri ve Ticaret Serbest Bölgesi 4. Sokak Parsel No: 110/2 Tuzla/İstanbul/ TÜRKİYE | | |
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| 1) Definition of class VI thermostat | | | |
| <p>— Class VI - Weather compensator and room sensor, for use with modulating heaters: A heater flow temperature control that varies the flow temperature of water leaving the heater dependent upon prevailing outside temperature and selected weather compensation curve. A room temperature sensor monitors room temperature and adjusts the compensation curve parallel displacement to improve room comfort. Control is achieved by modulating the output of the heater.</p> <p>(*) High-temperature regime means 60 °C return temperature at heater inlet and 80 °C feed temperature at heater outlet.</p> <p>(**) Low temperature means for condensing boilers 30 °C, for low-temperature boilers 37 °C and for other heaters 50 °C return temperature (at heater inlet).</p> | | | |
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