



# CERTIFICATE of EC type examination

**1858-GAD-016/08-0259\***


**Owner:** "BOREY" Ltd., Bulgaria, Gorna Oriahovitca, 88 Knyaz Boris Str.  
**Manufacturer:** DAEWOO GAS BOILER CO., LTD.  
 CHEONGCHEON-DONG WOOLIM LION'S VALLEY 425, Korea  
**Gas appliance:** CENTRAL HEATING COMBI BOILER  
**Trade mark:** DAEWOO  
**Type:** CENTRAL HEATING COMBI BOILER DGB ..., DAEWOO  
**Models:** DGB - 100/ 130/ 160/ 200/ ICH/ ICHO/ ; DGB - 250/ 300/ KFC ;  
 DGB - 100/ 130/ 160/ 200/ 250/ 300/ 350/ MSC/ ; DGB - 350/ MJC/  
**Appliance category:** II 2H 3B/P  
**PIN** 1858BT0259  
**Country of destination:** BG ; GR ; PL ; RO  
**Test report:** 16 / 21.03.2008 off 21.04.2008 ε.

Etalon 99 Ltd. Bulgaria hereby certifies that after the successful completion of EC type examination (module B) the tested product CENTRAL HEATING COMBI DGB ..., DAEWOO BOILERS, models: DGB - 100/ 130/ 160/ 200/ ICH/ ICHO/ ; DGB - 250/ 300/ KFC ; DGB - 100/ 130/ 160/ 200/ 250/ 300/ 350/ MSC/ ; DGB - 350/ MJC/ complies with the applicable essential requirements of Directive 90/396/EC entered into force in Bulgaria by Ordinance for essential requirements and conformity assessment of gas appliances.

(\* This certificate supersedes the certificate for EC type examination № OC 001 ΓΥ-34/05-133 from 04.05.2005 and has been issued under compliance with the same circumstances and requirements to the product described by the certificate.

Gabrovo, 30.04.2008 ε.  
Bulgaria



Head of notified body:   
Dr. Peycho Ganchev

"Etalon 99" Ltd - notified by the government of the Republic of Bulgaria and officially registered by the European Commission for conformity assessment of gas appliances.

"Etalon 99" Ltd  
8, Aprilov Blvd., BG  
5300 Gabrovo  
tel.: +359 (66) 80 85 19  
fax: + 359 (66) 80 48 10

**Electrical data:** ~230V ; 50Hz ; 110 ÷ 180W ; IPX4D

**Category:** II<sub>2H3 B/P</sub>  
**Gas input pressure:** 20mbar; 30 mbar

**Country of destination:** BG ; GR ; PL ; RO

**Gas supply:**G20; G30.

|         |                   |
|---------|-------------------|
| 20 mbar | BG ; GR ; PL ; RO |
| 30 mbar | BG ; GR ; PL ; RO |

**Installation codes:** C<sub>13</sub> ; C<sub>43</sub> ; C<sub>63</sub> ; C<sub>83</sub>

P<sub>MS</sub>: 3 bar; P<sub>MW</sub> : 10 bar; NO<sub>x</sub> – class: 2  
 CO, %: 0,007 ÷ 0,010

**Combustion products temperature:** °C : 120 ÷ 150

**Technical data:**

| MODELS   | DGB<br>100...   | DGB<br>130... | DGB<br>160... | DGB<br>200... | DGB<br>250...   | DGB<br>300... | DGB<br>350... |
|--|-----------------|---------------|---------------|---------------|-----------------|---------------|---------------|
| Nominal heat input: Q <sub>n</sub> , kW                      | 12,8            | 16,7          | 20,6          | 25,6          | 32,2            | 38,6          | 45,0          |
| Nominal output: P <sub>n</sub> , kW                          | 11,6            | 15,1          | 18,6          | 23,3          | 29,1            | 34,9          | 40,7          |
| Nominal heat input hot water: Q <sub>hw</sub> , kW           | 18,6            | 18,6          | 23,3          | 23,3          | 29,1            | 34,9          | 40,7          |
| Efficiency: %  | 90,6 + 91,5     |               |               |               |                 |               |               |
| M, kg/h, G30 – Gas rate:<br>heating / hot water              | 1,0/1,7         | 1,4/1,7       | 1,7/2,3       | 2,2/2,3       | 2,7/2,7         | 3,2/3,2       | 3,4/3,4       |
| V, m <sup>3</sup> /h, G20 – Gas rate:<br>heating / hot water | 1,13/1,88       | 1,6/2,0       | 2,0/2,5       | 2,0/2,5       | 2,9/2,9         | 3,7/3,7       | 3,9/3,9       |
| Nozzle: G20/G30, Φ, mm                                       | 1,76/1,12       | 1,76/1,12     | 1,76/1,12     | 1,76/1,12     | 1,55/1,10       | 1,55/1,10     | 1,55/1,10     |
| Nozzle in number   | 6               | 8             | 8             | 8             | 15              | 15            | 18            |
| Domestic hot water flow rate: l/min<br>ΔT = 25°<br>ΔT = 40°  | 10,7<br>6,7     | 10,7<br>6,7   | 13,3<br>8,3   | 13,3<br>8,3   | 16,6<br>10,4    | 20,0<br>12,5  | 23,3<br>14,6  |
| Temperature, heating: °C                                     | 40 – 85         | 40 – 85       | 40 – 85       | 40 – 85       | 40 – 85         | 40 – 85       | 40 – 85       |
| Max temperature, domestic hot<br>water: °C                   | 35 – 65         | 35 – 65       | 35 – 65       | 35 – 65       | 35 – 65         | 35 – 65       | 35 – 65       |
| Expansion vessel, volume: l                                  | 6               | 6             | 6             | 6             | 8               | 8             | 8             |
| Bases dimensions: mm   | 492 / 656 / 232 |               |               |               | 492 / 656 / 357 |               |               |
| Net weight: kg   | 26              | 28            | 28            | 28            | 33              | 33            | 36            |