

Declaration

DGC , hereby declares that, according to article 4 of commission regulation (EU) No. 813/2013 of 2 August 2013 the boiler

KD Navien NHC 25BD

meets the requirements regarding

Seasonal space heating energy efficiency,

NOx emissions

Water heating energy efficiency

(* Not Applicable) applicable from 2018 only

YES
NA (*)
YES

The declaration is based upon the measured values as given in the following table

Model(s): [information identifying the model(s) to which the information relates]

Condensing boiler: [yes/no]

Low-temperature (**) boiler: [yes/no]

B1 boiler: [yes/no]

Combination heater: [yes/no]

yes
no
no
yes

Symbol Value Unit

Useful heat output

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

P 4 24,0 kW

At 30 % of rated heat output and low-temperature regime

P 1 7,7 kW

useful efficiencies

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

η 4 92,1 %

At 30 % of rated heat output and low-temperature regime

η 1 97,4 %

Auxiliary electricity consumption

At full load

elmax 0,136 kW

At part load

elmin 0,057 kW

In standby mode

P SB 0,013 kW

Other items

Standby heat loss

P stby 0,116 kW

Ignition burner power consumption

P ign 0,000 kW

Emissions of nitrogen oxides (optional)

NOx - mg/ kWh

Please turn page

Declaration

DGC, hereby declares that, according to article 4 of commission regulation (EU) No. 813/2013 of 2 August 2013 the boiler

KD Navien NHC 30BD

meets the requirements regarding

Seasonal space heating energy efficiency,

NOx emissions

Water heating energy efficiency

(* Not Applicable) applicable from 2018 only

YES
NA (*)
YES

The declaration is based upon the measured values as given in the following table

Model(s): [information identifying the model(s) to which the information relates]

Condensing boiler: [yes/no]

Low-temperature (**) boiler: [yes/no]

B1 boiler: [yes/no]

Combination heater: [yes/no]

yes
no
no
yes

Symbol Value Unit

Useful heat output

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

P 4 27,9 kW

At 30 % of rated heat output and low-temperature regime

P 1 9,3 kW

useful efficiencies

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

η 4 91,3 %

At 30 % of rated heat output and low-temperature regime

η 1 96,0 %

Auxiliary electricity consumption

At full load

elmax 0,145 kW

At part load

elmin 0,060 kW

In standby mode

P SB 0,014 kW

Other items

Standby heat loss

P stby 0,122 kW

Ignition burner power consumption

P ign 0,000 kW

Emissions of nitrogen oxides (optional)

NOx - mg/ kWh

Please turn page

Declaration

DGC, hereby declares that, according to article 4 of commission regulation (EU) No. 813/2013 of 2 August 2013 the boiler

KD Navien NHC 41BD

meets the requirements regarding

- Seasonal space heating energy efficiency,
- NOx emissions
- Water heating energy efficiency

(* Not Applicable) applicable from 2018 only

YES
NA (*)
YES

The declaration is based upon the measured values as given in the following table

Model(s): [information identifying the model(s) to which the information relates]

- Condensing boiler: [yes/no]
- Low-temperature (**) boiler: [yes/no]
- B1 boiler: [yes/no]
- Combination heater: [yes/no]

yes
no
no
yes

Symbol Value Unit

Useful heat output

- At rated heat output and high-temperature regime (*)
- At 30 % of rated heat output and low-temperature regime

P 4	36,8	kW
P 1	11,9	kW

useful efficiencies

- At rated heat output and high-temperature regime (*)
- At 30 % of rated heat output and low-temperature regime

η 4	91,7	%
η 1	96,6	%

Auxiliary electricity consumption

- At full load
- At part load
- In standby mode

elmax	0,163	kW
elmin	0,066	kW
P SB	0,012	kW

Other items

- Standby heat loss
- Ignition burner power consumption
- Emissions of nitrogen oxides (optional)

P stby	0,154	kW
P ign	0,000	kW
NOx	-	mg/ kWh

Please turn page

seasonal space heating energy efficiency during on mode
(calculated value, for boilers below 70kW heat output)

η_{son}

96,6

 %

Correction factors

- Adjusted contribution of temperature controls
- Auxiliary electricity consumption
- Standby heat losses
- Ignition burner power consumption
- Sum:

F1	3,0	%
F2	2,1	%
F3	0,2	%
F4	0,0	%
F1-F4	5,3	%

Seasonal space heating energy efficiency
(calculated value, for boilers below 70kW heat output)
Seasonal space heating energy efficiency. Rounded value

η_s

91,3

 %
 η_s

91

 %

For combination heaters

- Declared load profile
- Daily electricity consumption
- Daily fuel consumption
- Water heating energy efficiency

	XL	
Qelec	0,443	kWh
Qfuel	28,617	kWh
η_{WH}	64	%

for low-temperature boilers 37 °C and for other heaters 50 °C return temperature (at heater inlet).

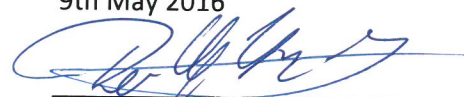
(**) Low temperature means for condensing boilers

calculated values are based on gross calorific value (reference conditions 15°C.15°C, 1013,25mbar)

Note: The values for η_s and η_{WH} (if applicable) stated above correspond to the following efficiency classes according regulation 811/2013 resp. 812/2013 according regulation 811/2013 resp. 812/2013 efficiency class central heating 2010/30/EC (informative) efficiency class water heating 2010/30/EC (informative)

A
B

9th May 2016



Per G. Kristensen
DGC a/s

seasonal space heating energy efficiency during on mode
(calculated value, for boilers below 70kW heat output)

η_{son}	95,3	%
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Correction factors

Adjusted contribution of temperature controls
 Auxiliary electricity consumption
 Standby heat losses
 Ignition burner power consumption
 Sum:

F1	3,0	%
F2	1,9	%
F3	0,2	%
F4	0,0	%
F1-F4	5,1	%

Seasonal space heating energy efficiency
(calculated value, for boilers below 70kW heat output)

η_s	90,3	%
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Seasonal space heating energy efficiency. Rounded value

η_s	90	%
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For combination heaters

Declared load profile
 Daily electricity consumption
 Daily fuel consumption
 Water heating energy efficiency

	XL	
Qelec	0,440	kWh
Qfuel	29,532	kWh
η_{WH}	62	%

for low-temperature boilers 37 °C and for other heaters 50 °C return temperature (at heater inlet).

(**) Low temperature means for condensing boilers

calculated values are based on gross calorific value (reference conditions 15°C.15°C, 1013,25mbar)

Note: The values for η_s and η_{WH} (if applicable) stated above correspond to the following efficiency classes

according regulation 811/2013 resp. 812/2013

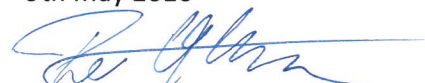
according regulation 811/2013 resp. 812/2013

efficiency class central heating 2010/30/EC (informative)

efficiency class water heating 2010/30/EC (informative)

A
B

9th May 2016



Per G. Kristensen

DGC a/s

seasonal space heating energy efficiency during on mode
(calculated value, for boilers below 70kW heat output)

η_{son}	95,9	%
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Correction factors

Adjusted contribution of temperature controls
Auxiliary electricity consumption
Standby heat losses
Ignition burner power consumption
Sum:

F1	3,0	%
F2	1,5	%
F3	0,2	%
F4	0,0	%
F1-F4	4,8	%

Seasonal space heating energy efficiency
(calculated value, for boilers below 70kW heat output)
Seasonal space heating energy efficiency. Rounded value

η_s	91,1	%
η_s	91	%

For combination heaters

Declared load profile
Daily electricity consumption
Daily fuel consumption
Water heating energy efficiency

	XXL	
Qelec	0,468	kWh
Qfuel	35,339	kWh
η_{WH}	67	%

for low-temperature boilers 37 °C and for other heaters 50 °C return temperature (at heater inlet).

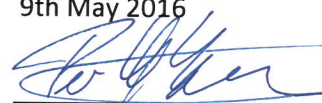
(**) Low temperature means for condensing boilers

calculated values are based on gross calorific value (reference conditions 15°C.15°C, 1013,25mbar)

Note: The values for η_s and η_{WH} (if applicable) stated above correspond to the following efficiency classes according regulation 811/2013 resp. 812/2013 according regulation 811/2013 resp. 812/2013 efficiency class central heating 2010/30/EC (informative) efficiency class water heating 2010/30/EC (informative)

A
B

9th May 2016



Per G. Kristensen
DGC a/s