

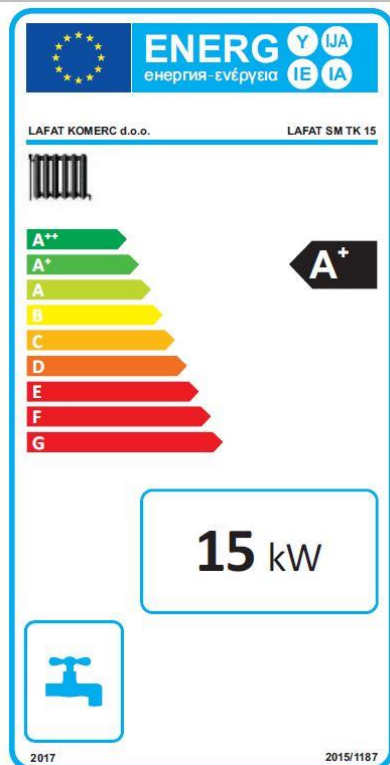


Lafat komerc d.o.o

Company for manufacturing, internal and external trade and services
Industrijska zona bb Kalesija, 75260
Bosnia and Hercegovina

PRODUCT ID: SM TK 15

<i>Product informations/Informacije o proizvodu</i>	<i>Wood/Drvo</i>	<i>Coal/Ugalj</i>	<i>Unit/Jedinica</i>
<i>Nominal power /Nominalna snaga</i>	15	15	kW
<i>Consumption fuel/Protok goriva</i>	2.96	4.4	kg/h
<i>Usefull efficiency /Korisna efikasnost</i>	88.8	88.4	%
<i>Seasonal space heating efficiency/ Sezonska učinkovitost</i>	86	85	%
PM	36	44.8	mg/Nm ³
OGC	21.2	24.3	mg/Nm ³
NOx	174.7	229.7	mg/Nm ³
CO	529.9	647.8	mg/Nm ³
<i>Recommended fuel/Preporučeno gorivo</i>	wood	coal	
<i>Tested according /Testiran prema</i>	EN 303-5		
<i>Fulfills requirements/Ispunjava zahtjeve</i>	Eu 2015/1189		
<i>Notified body/Akreditovano tijelo</i>	2608		
<i>Class/Klasa kotla</i>	5		





Lafat komerc d.o.o

Company for manufacturing, internal and external trade and services
Industrijska zona bb Kalesija, 75260
Bosnia and Hercegovina

PRODUCT ID: SM TK 20

<i>Product informations/Informacije o proizvodu</i>	<i>Wood/Drvo</i>	<i>Coal/Ugalj</i>	<i>Unit/Jedinica</i>
<i>Nominal power /Nominalna snaga</i>	20	20	kW
<i>Consumption fuel/Protok goriva</i>	3.95	5.8	kg/h
<i>Usefull efficiency /Korisna efikasnost</i>	89.3	88.45	%
<i>Seasonal space heating efficiency/ Sezonska učinkovitost</i>	86.5	85.5	%
PM	36.9	45.65	mg/Nm ³
OGC	22.8	24.65	mg/Nm ³
NOx	176.25	231.45	mg/Nm ³
CO	534.9	651.85	mg/Nm ³
<i>Recommended fuel/Preporučeno gorivo</i>	wood	coal	
<i>Tested according /Testiran prema</i>	EN 303-5		
<i>Fulfills requirements/Ispunjava zahtjeve</i>	Eu 2015/1189		
<i>Notified body/Akreditovano tijelo</i>	2608		
<i>Class/Klasa kotla</i>	5		



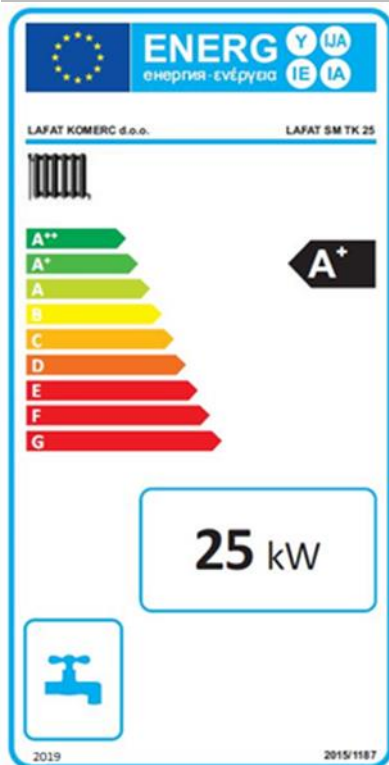


Lafat komerc d.o.o

Company for manufacturing, internal and external trade and services
Industrijska zona bb Kalesija, 75260
Bosnia and Hercegovina

PRODUCT ID: SM TK 25

<i>Product informations/Informacije o proizvodu</i>	<i>Wood/Drvo</i>	<i>Coal/Ugalj</i>	<i>Unit/Jedinica</i>
<i>Nominal power /Nominalna snaga</i>	25	25	kW
<i>Consumption fuel/Protok goriva</i>	4.95	7.2	kg/h
<i>Usefull efficiency /Korisna efikasnost</i>	89.8	88.5	%
<i>Seasonal space heating efficiency/ Sezonska učinkovitost</i>	87	86	%
PM	37.8	46.5	mg/Nm ³
OGC	24.4	25	mg/Nm ³
NOx	177.8	233.2	mg/Nm ³
CO	539.4	655.9	mg/Nm ³
<i>Recommended fuel/Preporučeno gorivo</i>	wood	coal	
<i>Tested according /Testiran prema</i>	EN 303-5		
<i>Fulfills requirements/Ispunjava zahtjeve</i>	Eu 2015/1189		
<i>Notified body/Akreditovano tijelo</i>	2608		
<i>Class/Klasa kotla</i>	5		



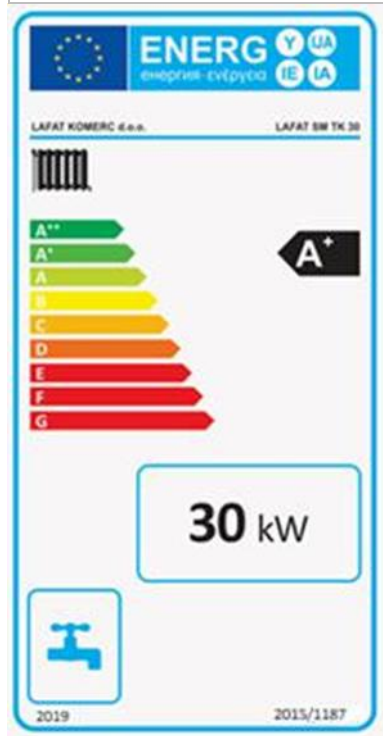


Lafat komerc d.o.o

Company for manufacturing, internal and external trade and services
Industrijska zona bb Kalesija, 75260
Bosnia and Hercegovina

PRODUCT ID: SM TK 30

<i>Product informations/Informacije o proizvodu</i>	<i>Wood/Drvo</i>	<i>Coal/Ugalj</i>	<i>Unit/Jedinica</i>
<i>Nominal power /Nominalna snaga</i>	30	30	kW
<i>Consumption fuel/Protok goriva</i>	5.92	8.7	kg/h
<i>Usefull efficiency /Korisna efikasnost</i>	90.2	89.6	%
<i>Seasonal space heating efficiency/ Sezonska učinkovitost</i>	87.5	87	%
PM	39.15	46.8	mg/Nm ³
OGC	26.15	26.55	mg/Nm ³
NOx	180.35	235.35	mg/Nm ³
CO	548.45	660.3	mg/Nm ³
<i>Recommended fuel/Preporučeno gorivo</i>	wood	coal	
<i>Tested according /Testiran prema</i>	EN 303-5		
<i>Fulfills requirements/Ispunjava zahtjeve</i>	Eu 2015/1189		
<i>Notified body/Akreditovano tijelo</i>	2608		
<i>Class/Klasa kotla</i>	5		



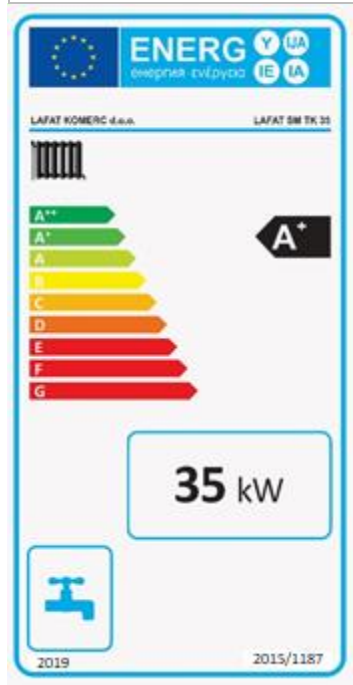


Lafat komerc d.o.o

Company for manufacturing, internal and external trade and services
Industrijska zona bb Kalesija, 75260
Bosnia and Hercegovina

PRODUCT ID: SM TK 35

<i>Product informations/Informacije o proizvodu</i>	<i>Wood/Drvo</i>	<i>Coal/Ugalj</i>	<i>Unit/Jedinica</i>
<i>Nominal power /Nominalna snaga</i>	35	35	kW
<i>Consumption fuel/Protok goriva</i>	6.9	10.2	kg/h
<i>Usefull efficiency /Korisna efikasnost</i>	90.6	90.7	%
<i>Seasonal space heating efficiency/ Sezonska učinkovitost</i>	88	88	%
PM	40.5	47.1	mg/Nm ³
OGC	27.9	28.1	mg/Nm ³
NOx	182.9	237.5	mg/Nm ³
CO	557.5	664.7	mg/Nm ³
<i>Recommended fuel/Preporučeno gorivo</i>	wood	coal	
<i>Tested according /Testiran prema</i>	EN 303-5		
<i>Fulfills requirements/Ispunjava zahtjeve</i>	Eu 2015/1189		
<i>Notified body/Akreditovano tijelo</i>	2608		
<i>Class/Klasa kotla</i>	5		



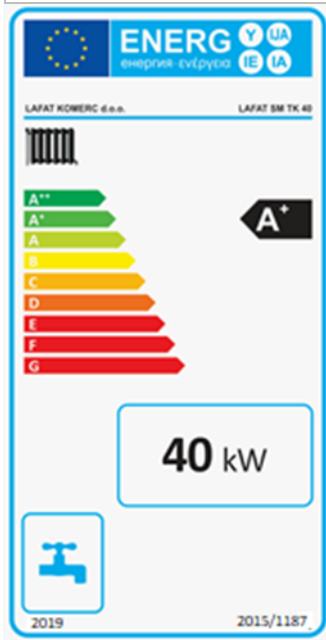


Lafat komerc d.o.o

Company for manufacturing, internal and external trade and services
Industrijska zona bb Kalesija, 75260
Bosnia and Hercegovina

PRODUCT ID: SM TK 40

<i>Product informations/Informacije o proizvodu</i>	<i>Wood/Drvo</i>	<i>Coal/Ugalj</i>	<i>Unit/Jedinica</i>
<i>Nominal power /Nominalna snaga</i>	<i>40</i>	<i>40</i>	<i>kW</i>
<i>Consumption fuel/Protok goriva</i>	<i>7.87</i>	<i>11.62</i>	<i>kg/h</i>
<i>Usefull efficiency /Korisna efikasnost</i>	<i>90.65</i>	<i>90.71</i>	<i>%</i>
<i>Seasonal space heating efficiency/ Sezonska učinkovitost</i>	<i>88</i>	<i>88</i>	<i>%</i>
PM	<i>40.98</i>	<i>47.18</i>	mg/Nm ³
OGC	<i>28.01</i>	<i>28.24</i>	mg/Nm ³
NOx	<i>183.59</i>	<i>238.24</i>	mg/Nm ³
CO	<i>559.63</i>	<i>665.66</i>	mg/Nm ³
<i>Recommended fuel/Preporučeno gorivo</i>	<i>wood</i>	<i>coal</i>	
<i>Tested according /Testiran prema</i>	<i>EN 303-5</i>		
<i>Fulfills requirements/Ispunjava zahtjeve</i>	<i>Eu 2015/1189</i>		
<i>Notified body/Akreditovano tijelo</i>	<i>2608</i>		
<i>Class/Klasa kotla</i>	<i>5</i>		



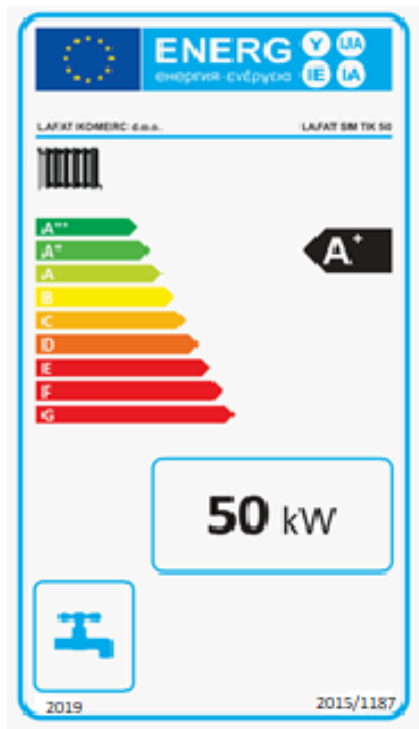


Lafat komerc d.o.o

Company for manufacturing, internal and external trade and services
Industrijska zona bb Kalesija, 75260
Bosnia and Hercegovina

PRODUCT ID: SM TK 50

<i>Product informations/Informacije o proizvodu</i>	<i>Wood/Drvo</i>	<i>Coal/Ugalj</i>	<i>Unit/Jedinica</i>
<i>Nominal power /Nominalna snaga</i>	50	50	kW
<i>Consumption fuel/Protok goriva</i>	9.85	14.48	kg/h
<i>Usefull efficiency /Korisna efikasnost</i>	90.77	90.74	%
<i>Seasonal space heating efficiency/ Sezonska učinkovitost</i>	88	88	%
PM	41.95	47.35	mg/Nm ³
OGC	28.24	28.52	mg/Nm ³
NOx	184.99	241.13	mg/Nm ³
CO	563.92	667.61	mg/Nm ³
<i>Recommended fuel/Preporučeno gorivo</i>	wood	coal	
<i>Tested according /Testiran prema</i>	EN 303-5		
<i>Fulfills requirements/Ispunjava zahtjeve</i>	Eu 2015/1189		
<i>Notified body/Akreditovano tijelo</i>	2608		
<i>Class/Klasa kotla</i>	5		



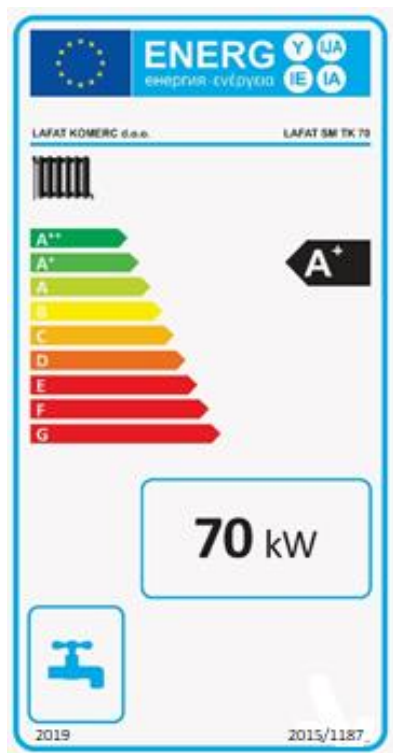


Lafat komerc d.o.o

Company for manufacturing, internal and external trade and services
Industrijska zona bb Kalesija, 75260
Bosnia and Hercegovina

PRODUCT ID: SM TK 70

<i>Product informations/Informacije o proizvodu</i>	<i>Wood/Drvo</i>	<i>Coal/Ugalj</i>	<i>Unit/Jedinica</i>
<i>Nominal power /Nominalna snaga</i>	<i>70</i>	<i>70</i>	<i>kW</i>
<i>Consumption fuel/Protok goriva</i>	<i>13.8</i>	<i>20.2</i>	<i>kg/h</i>
<i>Usefull efficiency /Korisna efikasnost</i>	<i>91</i>	<i>90.8</i>	<i>%</i>
<i>Seasonal space heating efficiency/ Sezonska učinkovitost</i>	<i>88</i>	<i>88</i>	<i>%</i>
PM	<i>43.9</i>	<i>47.7</i>	<i>mg/Nm³</i>
OGC	<i>28.7</i>	<i>29.1</i>	<i>mg/Nm³</i>
NOx	<i>187.8</i>	<i>246</i>	<i>mg/Nm³</i>
CO	<i>572.5</i>	<i>671.5</i>	<i>mg/Nm³</i>
<i>Recommended fuel/Preporučeno gorivo</i>	<i>wood</i>	<i>coal</i>	
<i>Tested according /Testiran prema</i>	<i>EN 303-5</i>		
<i>Fulfills requirements/Ispunjava zahtjeve</i>	<i>Eu 2015/1189</i>		
<i>Notified body/Akreditovano tijelo</i>	<i>2608</i>		
<i>Class/Klasa kotla</i>	<i>5</i>		





Lafat komerc d.o.o

Company for manufacturing, internal and external trade and services

Industrijska zona bb Kalesija, 75260

Bosnia and Hercegovina

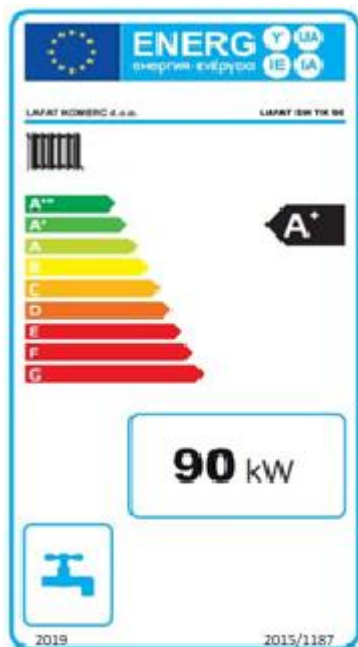


Lafat komerc d.o.o

Company for manufacturing, internal and external trade and services
Industrijska zona bb Kalesija, 75260
Bosnia and Hercegovina

PRODUCT ID: SM TK 90

<i>Product informations/Informacije o proizvodu</i>	<i>Wood/Drvo</i>	<i>Coal/Ugalj</i>	<i>Unit/Jedinica</i>
<i>Nominal power /Nominalna snaga</i>	<i>90</i>	<i>90</i>	<i>kW</i>
<i>Consumption fuel/Protok goriva</i>	<i>17.75</i>	<i>25.95</i>	<i>kg/h</i>
<i>Usefull efficiency /Korisna efikasnost</i>	<i>91.6</i>	<i>90.85</i>	<i>%</i>
<i>Seasonal space heating efficiency/ Sezonska učinkovitost</i>	<i>88.5</i>	<i>88</i>	<i>%</i>
PM	<i>45.45</i>	<i>50.65</i>	<i>mg/Nm³</i>
OGC	<i>28.85</i>	<i>29.25</i>	<i>mg/Nm³</i>
NOx	<i>193.5</i>	<i>249.3</i>	<i>mg/Nm³</i>
CO	<i>588.8</i>	<i>683.95</i>	<i>mg/Nm³</i>
<i>Recommended fuel/Preporučeno gorivo</i>	<i>wood</i>	<i>coal</i>	
<i>Tested according /Testiran prema</i>	<i>EN 303-5</i>		
<i>Fulfills requirements/Ispunjava zahtjeve</i>	<i>Eu 2015/1189</i>		
<i>Notified body/Akreditovano tijelo</i>	<i>2608</i>		
<i>Class/Klasa kotla</i>	<i>5</i>		



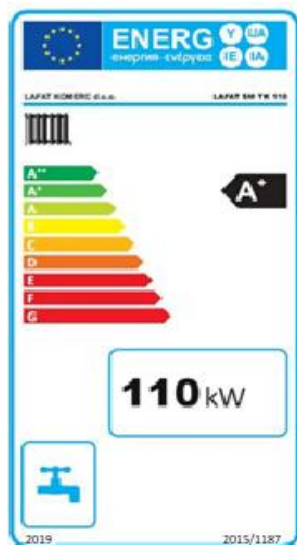


Lafat komerc d.o.o

Company for manufacturing, internal and external trade and services
Industrijska zona bb Kalesija, 75260
Bosnia and Hercegovina

PRODUCT ID: SM TK 110

<i>Product informations/Informacije o proizvodu</i>	<i>Wood/Drvo</i>	<i>Coal/Ugalj</i>	<i>Unit/Jedinica</i>
<i>Nominal power /Nominalna snaga</i>	<i>110</i>	<i>110</i>	<i>kW</i>
<i>Consumption fuel/Protok goriva</i>	<i>21.7</i>	<i>31.7</i>	<i>kg/h</i>
<i>Usefull efficiency /Korisna efikasnost</i>	<i>92.2</i>	<i>90.9</i>	<i>%</i>
<i>Seasonal space heating efficiency/ Sezonska učinkovitost</i>	<i>89</i>	<i>88</i>	<i>%</i>
PM	<i>47</i>	<i>53.6</i>	<i>mg/Nm³</i>
OGC	<i>29</i>	<i>29.4</i>	<i>mg/Nm³</i>
NOx	<i>198.5</i>	<i>252.6</i>	<i>mg/Nm³</i>
CO	<i>605.1</i>	<i>696.4</i>	<i>mg/Nm³</i>
<i>Recommended fuel/Preporučeno gorivo</i>	<i>wood</i>	<i>coal</i>	
<i>Tested according /Testiran prema</i>	<i>EN 303-5</i>		
<i>Fulfills requirements/Ispunjava zahtjeve</i>	<i>Eu 2015/1189</i>		
<i>Notified body/Akreditovano tijelo</i>	<i>2608</i>		
<i>Class/Klasa kotla</i>	<i>5</i>		



TUV
THÜRINGEN
ZERTIFIKAT
CERTIFICATE

Konformitätsbestätigung
Certificate of Conformity

Registrier-Nr. / Registered No.: MRL 23/015

Zeichen des Antragstellers
Reference of Applicant
LAFAT Komerc d.o.o.

Antragsdatum
Date of Application
16.12.2023

Aktenzeichen
File Reference
1AU-299021-3

Prüfbericht Nr.
Test Report No.
1AU-04_12_2023

gültig bis
valid until
16.12.2024

Hiermit wird bestätigt, dass das nachfolgend genannte Produkt den grundlegenden Anforderungen der Richtlinie des Rates vom 17.Mai 2006 zur Angleichung der Rechts- und Verwaltungsvorschriften der Mitgliedsstaaten für Maschinen entspricht (2006/42/EG). Dieses Zertifikat ist nur mit dem Prüfbericht 1AU-04_12_2023 gültig und erlischt bei Änderungen an der Anlage.

We hereby certify that the product mentioned below meets the basic requirements of the Directive 2006/42/EC of the European Parliament and of the Council of 17 May 2006 on the approximation of the laws of the Member States relating to machinery. This certificate is only valid with the test report 1AU-04_12_2023 and expires if changes are made to the system.

Hersteller:
Manufacturer name

LAFAT KOMERC d.o.o.
Industrijska zona bb
75260 Kalesija, BiH

Fertigungsstätte:
Production site

LAFAT KOMERC d.o.o.
Industrijska zona bb
75260 Kalesija, BiH

Erzeugnis, Typ:
Product, type

Heizkessel mit Fördereinrichtung,
Boiler with conveyor

Technische Beschreibung:
Technical description

Name/Typ: LAFAT COMBO
Leistung/Power: 25 kW - 50 kW, E-Anschluss 230 V, 50 Hz

Prüfgrundlagen:
Tested according to

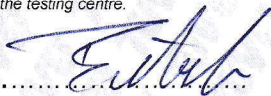
Maschinenrichtlinie 2006/42/EG
EN ISO 12100:2010
DIN EN 303-5
DIN EN 15270

Dieses Zertifikat enthält das Ergebnis einer einmaligen Untersuchung an dem zur Prüfung vorgelegten Erzeugnis. Es stellt kein allgemeingültiges Urteil über die Eigenschaften der Erzeugnisse aus der laufenden Fertigung dar. Es berechtigt nicht zur Führung eines Prüfzeichens des TÜV Thüringen. Eine Veröffentlichung dieses Zertifikates ist ohne schriftliche Genehmigung der Prüfstelle nicht gestattet.

This certificate contains the result of a single testing of the presented object samples. It does not give a general judgement about the quality of the products of the current production. It does not legitimate to use a test mark of TÜV Thüringen. The publishing of that certificate needs the written approval of the testing centre.

Arnstadt, 27.12.2023




Dipl.-Ing. V. Biebler
Leiter Zertifizierungsstelle MRL /
Head of certification body MRL

Dieses Zertifikat besteht aus /this certificate consists of 1 Blatt / sheet, Anlagen / annex
TÜV Thüringen e. V., Service-Center Mittelthüringen, Ichtershäuser Straße 32, 99310 Arnstadt, Tel.: 03628 / 598-470



Lafat komerc d.o.o

Company for manufacturing, internal and external trade and services

Industrijska zona bb Kalesija, 75260

Bosnia and Hercegovina

PRODUCT INFORMATION SHEET

PRODUCT ID: **COMBO 35**

Product information	Symbol	Unit	Value for pelleta as fuel	Value for briquettes as fuel
Rated heat output		kW	35	
Energy efficiency of space heating conditioned by the seasons	η_s	%	81	80
Energy efficiency class			A ⁺	A ⁺
Energy efficiency index	EEl		121	120
Useful thermal energy				
At rated heat output and operation at high temperatures	Pn	kW	34,94	35
At 30% of rated heat output and low temperature operation	Pp	kW	10,1	9,8
Degree of efficiency				
At rated heat output and operation at high temperatures	η_n	%	90,4	89,37
At 30% of rated heat output and low temperature operation	η_p	%	88,6	87,65
Auxiliary energy consumption				
At full load	elmax	kW	0,45	
At partial load	elmin	kW	0,15	
In standby mode	PSB	kW	0,055	

Made according to the Delegated Regulation of the EU Commission 2015/1189.

