

Rapporto / Report No. K 3172 2021 B2

Decreto 7 Novembre 2017, n. 186
Certificazione ambientale del generatore di calore

Modello / Model:
00271975

Produttore / Manufacturer:
UNICAL AG S.p.A

Marchio commerciale / Trademark:
UNICAL, SCHUSTER, WIESBERG, ARIEL

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Publication of page 2 is permitted.**

Decreto 7 Novembre 2017, n. 186

Certificazione ambientale del generatore di calore

Produttore / *Manufacturer:* **UNICAL AG S.p.A**
 Via Roma 123
 I-43033 Castel D'Ario (MN)

Marchio commerciale / *Trademark:* **UNICAL, SCHUSTER, WIESBERG, ARIEL**

Modello / *Model:* **00271975**

Tipologia prodotto / *Product type:* Caldaia a pellets di legna / Wood pellet boiler

Norma di riferimento / *Reference standard:* DIN EN 303-5:2012

Ente Notificato CPR/ *Notified body acc. CPR* NB 2456

Rapporto di Prova di riferimento / *Reference test report:* K 3172 2021 Z1

Potenza termica nominale / *Nominal heat output:* 13,8 kW

Combustibile di prova / *Test fuel:* Pellet di legna / wood pellet

Prestazioni del generatore di calore <i>Performances of the heating appliance</i>		Classi di prestazione / <i>Performance classes</i>			
		5 stelle	4 stelle	3 stelle	2 stelle
PP ⁽¹⁾ mg/Nm ³	13	10	15	20	40
COT ⁽¹⁾ mg/Nm ³	2	5	10	15	20
NOx ⁽¹⁾ mg/Nm ³	119	120	130	145	200
CO ⁽²⁾ mg/Nm ³	56	25	100	250	300
η ⁽²⁾ %	91,2	92	91	90	90

⁽¹⁾ Determinato applicando il metodo di misura della CEN/TS 15883
Determined applying the measurement method of the CEN/TS 15883

⁽²⁾ Determinato secondo la EN 303-5:2012
Determined according to EN 303-5:2012

Nota: tutti i valori di concentrazione calcolati al 13% di O₂ in condizioni normali (273 K, 1013 mbar, gas secco)
Note: all the concentration values are calculated at 13% of O₂ in normal conditions (273 K, 1013 mbar, dry gas)

Sulla base delle prestazioni indicate, il generatore di calore risulta in classe
Based on the declared performances, the heating appliance is in class

4 stelle / 4 stars

Cologne, 01.12.2021
432 / mc

TÜV Rheinland Energy GmbH
 Test Centre for Energy Appliances
 NB 2456 (CPR)
 DIN EN ISO/IEC 17025:2005
 accreditation: D-PL-11120-04-00

Assessor:

Report released after review:



Dipl.-Ing. M. Ciccarelli



Dipl.-Ing. M. Reibold

Rapporto/Report No. K 3173 2021 B2

Decreto 7 Novembre 2017, n. 186
Certificazione ambientale del generatore di
calore

Modello / Model:
00271976

Distributore / Distributor:
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Marchio commerciale / Trademark:
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 I-43033 Castel D'Ario (MN)

Marchio commerciale / Trademark: **UNICAL, SCHUSTER, WIESBERG, ARIEL**

Modello / Model: **00271976**

Tipologia prodotto / Product type: Caldaia a pellets di legna / Wood pellet boiler

Norma di riferimento / Reference standard: EN 303-5:2012

Ente Notificato CPR/ Notified body acc. CPR: NB 2456

Rapporto di Prova di riferimento / Reference test report: K 3173 2021 Z1

Potenza termica nominale / Nominal heat output: 17,5 kW

Combustibile di prova / Test fuel: Pellet di legna / wood pellet

Prestazioni del generatore di calore <i>Performances of the heating appliance</i>		Classi di prestazione / Performance classes			
		5 stelle	4 stelle	3 stelle	2 stelle
PP⁽¹⁾ mg/Nm ³	4,8	10	15	20	40
COT⁽¹⁾ mg/Nm ³	2,1	5	10	15	20
NOx⁽¹⁾ mg/Nm ³	126,6	120	130	145	200
CO⁽¹⁾ mg/Nm ³	14,0	25	100	250	300
η⁽¹⁾ %	92,1	92	91	90	90

⁽¹⁾ Determinato applicando il metodo di misura della UNI EN 303-5
Determined applying the measurement method of the UNI EN 303-5

Nota: tutti i valori di concentrazione calcolati al 13% di O₂ in condizioni normali (273 K, 1013 mbar, gas secco)

Note: all the concentration values are calculated at 13% of O₂ in normal conditions (273 K, 1013 mbar, dry gas)

Sulla base delle prestazioni indicate, il generatore di calore risulta in classe
Based on the declared performances, the heating appliance is in class

4 stelle / 4 stars

Cologne, 01.12.2021
 432 / mc

Assessor:



Dipl.-Ing. M. Ciccarelli

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Rapporto/Report No. K 3174 2021 B2

Decreto 7 Novembre 2017, n. 186
Certificazione ambientale del generatore di
calore

Modello / Model:
00271977, 00271982

Distributore / Distributor:
UNICAL AG S.p.A

Marchio commerciale / Trademark:
UNICAL, SCHUSTER, WIESBERG, ARIEL

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I-43033 Castel D`Ario (MN)

Marchio commerciale / Trademark: **UNICAL, SCHUSTER, WIESBERG, ARIEL**

Modello / Model: **00271977, 00271982**

Tipologia prodotto / Product type: Caldaia a pellets di legna / Wood pellet boiler

Norma di riferimento / Reference standard: EN 303-5:2012

Ente Notificato CPR/ Notified body acc. CPR: NB 2456

Rapporto di Prova di riferimento / Reference test report: K 3174 2021 Z1

Potenza termica nominale / Nominal heat output: 21,0 kW

Combustibile di prova / Test fuel: Pellet di legna / wood pellet

Prestazioni del generatore di calore <i>Performances of the heating appliance</i>		Classi di prestazione / Performance classes			
		5 stelle	4 stelle	3 stelle	2 stelle
PP⁽¹⁾ mg/Nm³	15	10	15	20	40
COT⁽¹⁾ mg/Nm³	4	5	10	15	20
NOx⁽¹⁾ mg/Nm³	130	120	130	145	200
CO⁽¹⁾ mg/Nm³	71	25	100	250	300
η⁽¹⁾ %	91,1	92	91	90	90

⁽¹⁾ Determinato applicando il metodo di misura della UNI EN 303-5
Determined applying the measurement method of the UNI EN 303-5

Nota: tutti i valori di concentrazione calcolati al 13% di O₂ in condizioni normali (273 K, 1013 mbar, gas secco)
Note: all the concentration values are calculated at 13% of O₂ in normal conditions (273 K, 1013 mbar, dry gas)

Sulla base delle prestazioni indicate, il generatore di calore risulta in classe
Based on the declared performances, the heating appliance is in class
4 stelle / 4 stars

Cologne, 01.12.2021
432 / mc


TÜV Rheinland Energy GmbH
Test Centre for Energy Appliances
NB 2456 (CPR)
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Rapporto/Report No. K 3175 2021 B2

Decreto 7 Novembre 2017, n. 186
Certificazione ambientale del generatore di
calore

Modelli / Models
00271978, 00271979, 00271983, 00271984

Marchio commerciale / Trademark:
UNICAL, SCHUSTER, WIESBERG, ARIEL

Produttore / Manufacturer:
UNICAL AG S.p.A



This accreditation is valid only for the listed standards as stated in the accreditation annex of D-PL-11120-04-00

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The test results presented in this report refer solely to the test object stated as described on page 2. The report does not represent a general statement about the serial production of the test object and gives not an authorization for use of a TÜV Rheinland test- / certification mark.

Decreto 7 Novembre 2017, n. 186
Certificazione ambientale del generatore di calore

Produttore / *Manufacturer:*

UNICAL AG S.p.A

Via Roma 123
I-43033 Castel D'Ario (MN)

Marchio commerciale / *Trademark:*

UNICAL, SCHUSTER, WIESBERG, ARIEL

Modelli / *Models:*

00271978 00271983	00271979	00271984
25,0 kW	29,0 kW	31,2 kW

Potenza termica nominale / *Nominal heat output:*

Tipologie prodotti / *Product types:*

Caldaie a pellets di legna / *Wood pellet boilers*

Norma di riferimento / *Reference standard:*

EN 303-5:2012

Ente Notificato CPR/ *Notified body acc. CPR*

NB 2456

Rapporti di Prova di riferimento / *Reference test reports:*

K 3175 2021 Z1

Combustibile di prova / *Test fuel:*

Pellet di legna / *wood pellet*

Cologne, 01.12.2021
432 / mc

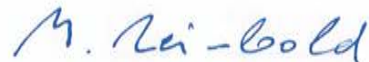
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NB 2456 (CPR)
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accreditation: D-PL-11120-04-00

Assessor:

Report released after review:



Dipl.-Ing. M. Ciccarelli



Dipl.-Ing. M. Reibold

Prestazioni del generatore di calore Performances of the heating appliance Classi di prestazione / Performance class			
	00271978 00271983	00271979	00271984
PP ⁽¹⁾ mg/Nm ³	12 (4*)	12 (4*)	11 (4*)
COT ⁽¹⁾ mg/Nm ³	5 (5*)	1 (5*)	3 (5*)
NOx ⁽¹⁾ mg/Nm ³	129 (4*)	117 (5*)	120 (5*)
CO ⁽¹⁾ mg/Nm ³	28 (5*)	22 (5*)	29 (4*)
η ⁽¹⁾ %	92,2 (5*)	92,1 (5*)	94,0 (5*)
Sulla base delle prestazioni indicate, il generatore di calore risulta in classe Based on the declared performances, the heating appliance is in class	4 stelle / 4 stars	4 stelle / 4 stars	4 stelle / 4 stars
1) Determinato applicando il metodo di misura della UNI EN 303-5 <i>Determined applying the measurement method of the UNI EN 303-5</i>			
Nota: tutti i valori di concentrazione calcolati al 13% di O ₂ in condizioni normali (273 K, 1013 mbar, gas secco) <i>Note: all the concentration values are calculated at 13% of O₂ in normal conditions (273 K, 1013 mbar, dry gas)</i>			

Classi di prestazione Performance classes	5 stelle	4 stelle	3 stelle	2 stelle
PP ⁽¹⁾ mg/Nm ³	10	15	20	40
COT ⁽¹⁾ mg/Nm ³	5	10	15	20
NOx ⁽¹⁾ mg/Nm ³	120	130	145	200
CO ⁽¹⁾ mg/Nm ³	25	100	250	300
η ⁽¹⁾ %	92	91	90	90

Rapporto/Report No. K 3175 2021 B2

Decreto 7 Novembre 2017, n. 186
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calore

Modelli / Models
00271978, 00271979, 00271983, 00271984

Marchio commerciale / Trademark:
UNICAL, SCHUSTER, WIESBERG, ARIEL

Produttore / Manufacturer:
UNICAL AG S.p.A



Deutsche
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D-PL-11120-04-00

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I-43033 Castel D`Ario (MN)Marchio commerciale / *Trademark:***UNICAL, SCHUSTER, WIESBERG, ARIEL**Modelli / *Models:*

00271978 00271983	00271979	00271984
25,0 kW	29,0 kW	31,2 kW

Potenza termica nominale / *Nominal heat output:*Tipologie prodotti / *Product types:*Caldaie a pellets di legna / *Wood pellet boilers*Norma di riferimento / *Reference standard:*

EN 303-5:2012

Ente Notificato CPR/ *Notified body acc. CPR*

NB 2456

Rapporti di Prova di riferimento / *Reference test reports:*

K 3175 2021 Z1

Combustibile di prova / *Test fuel:*Pellet di legna / *wood pellet*Cologne, 01.12.2021
432 / mcTÜV Rheinland Energy GmbH
Test Centre for Energy Appliances
NB 2456 (CPR)
DIN EN ISO/IEC 17025:2005
accreditation: D-PL-11120-04-00

Assessor:

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Dipl.-Ing. M. Ciccarelli



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Prestazioni del generatore di calore Performances of the heating appliance Classi di prestazione / Performance class			
	00271978 00271983	00271979	00271984
PP ⁽¹⁾ mg/Nm ³	12 (4*)	12 (4*)	11 (4*)
COT ⁽¹⁾ mg/Nm ³	5 (5*)	1 (5*)	3 (5*)
NOx ⁽¹⁾ mg/Nm ³	129 (4*)	117 (5*)	120 (5*)
CO ⁽¹⁾ mg/Nm ³	28 (5*)	22 (5*)	29 (4*)
η ⁽¹⁾ %	92,2 (5*)	92,1 (5*)	94,0 (5*)
Sulla base delle prestazioni indicate, il generatore di calore risulta in classe Based on the declared performances, the heating appliance is in class	4 stelle / 4 stars	4 stelle / 4 stars	4 stelle / 4 stars
1) Determinato applicando il metodo di misura della UNI EN 303-5 <i>Determined applying the measurement method of the UNI EN 303-5</i>			
Nota: tutti i valori di concentrazione calcolati al 13% di O ₂ in condizioni normali (273 K, 1013 mbar, gas secco) <i>Note: all the concentration values are calculated at 13% of O₂ in normal conditions (273 K, 1013 mbar, dry gas)</i>			

Classi di prestazione Performance classes	5 stelle	4 stelle	3 stelle	2 stelle
PP ⁽¹⁾ mg/Nm ³	10	15	20	40
COT ⁽¹⁾ mg/Nm ³	5	10	15	20
NOx ⁽¹⁾ mg/Nm ³	120	130	145	200
CO ⁽¹⁾ mg/Nm ³	25	100	250	300
η ⁽¹⁾ %	92	91	90	90