



## Greenstar

28CDi Compact LPG ErP

7733600057

The information provided fulfills the requirements of regulations (EU) 811/2013 and (EU) 813/2013.

Declared load profile  Energy Efficiency Class  Water heating energy efficiency class  A  Water heating energy efficiency class  A  Rated heat output  Annual energy consumption (average climate conditions)  Annual energy consumption  AEC  KWh  32  Annual electricity consumption  AFC  GJ  18  Seasonal space heating energy efficiency  \$\text{\$\struct{AFC}\$}\$\$ \$\text{\$\struct{\text{\$Wh}\$}\$}\$\$ \$32  Annual fuel consumption  AFC  GJ  18  Seasonal space heating energy efficiency  \$\$\struct{\text{\$\struc	Productdata	Symbol	Unit	7733600057
Water heating energy efficiency class       A         Rated heat output       Prated       kW       24         Annual energy consumption (average climate conditions)       Q <sub>HE</sub> kWh       -         Annual energy consumption       Q <sub>HE</sub> GJ       73         Annual electricity consumption       AEC       kWh       32         Annual fuel consumption       AFC       GJ       18         Seasonal space heating energy efficiency       η <sub>S</sub> %       94         Water heating energy efficiency       η <sub>wh</sub> %       85         Sound power level, indoors       L <sub>WA</sub> dB       52         Indication about ability working only during off-peak hours       No       No         Special precautions to be taken during assembly, installation or maintenance (if applicable)       see product accompanying documents         Condensing boiler       Yes         Low temperature boiler       No         B1 boiler       No         Compensation space heater       No         Combination heater       Yes         Useful heat output       Yes         Useful heat output and high temperature regime       P <sub>4</sub> kW       24,0         At 30% of rated heat output and high temperature regime       P	Declared load profile			XL
Rated heat output       Prated       kW       24         Annual energy consumption (average climate conditions)       QHE       kWh       -         Annual energy consumption       QHE       GJ       73         Annual electricity consumption       AEC       kWh       32         Annual fuel consumption       AFC       GJ       18         Seasonal space heating energy efficiency       η <sub>S</sub> %       94         Water heating energy efficiency       η <sub>wh</sub> %       85         Sound power level, indoors       L <sub>WA</sub> dB       52         Indication about ability working only during off-peak hours       No       No         Special precautions to be taken during assembly, installation or maintenance (if applicable)       see product accompanying documents         Condensing boiler       Yes         Low temperature boiler       No         B1 boiler       No         Cogeneration space heater       No         Combination heater       No         Useful heat output         At 30 % of rated heat output and high temperature regime       P <sub>4</sub> kW       24,0         At 30 % of rated heat output and high temperature regime       η <sub>4</sub> %       88,8         At 30 % of rated heat outpu	Energy Efficiency Class			Α
Annual energy consumption (average climate conditions)  Annual energy consumption  Annual energy consumption  AEC kWh 32  Annual fuel consumption  AFC GJ 18  Seasonal space heating energy efficiency  ¬η <sub>S</sub> % 94  Water heating energy efficiency  ¬η <sub>wh</sub> % 85  Sound power level, indoors  L <sub>WA</sub> dB 52  Indication about ability working only during off-peak hours  Special precautions to be taken during assembly, installation or maintenance (if applicable)  See product accompanying documents  Condensing boiler  Low temperature boiler  No  B1 boiler  Cogeneration space heater  Combination heater  Wes  Useful heat output  At rated heat output and high temperature regime  At a 30 % of rated heat output and low temperature regime  P <sub>1</sub> kW 8,1  Useful efficiency  At rated heat output and high temperature regime  ¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬	Water heating energy efficiency class			A
Annual energy consumption Q <sub>HE</sub> GJ 73 Annual electricity consumption AEC kWh 32 Annual fuel consumption AFC GJ 18 Seasonal space heating energy efficiency η <sub>S</sub> % 94 Water heating energy efficiency η <sub>Wh</sub> % 85 Sound power level, indoors L <sub>WA</sub> dB 52 Indication about ability working only during off-peak hours No Special precautions to be taken during assembly, installation or maintenance (if applicable) see product accompanying documents Condensing boiler Yes Low temperature boiler No B1 boiler No Cogeneration space heater No Combination heater Yes Useful heat output At rated heat output and high temperature regime P <sub>4</sub> kW 24,0 At 30 % of rated heat output and low temperature regime P <sub>1</sub> kW 8,1 Useful efficiency At rated heat output and high temperature regime η <sub>4</sub> % 88,8 At 30 % of rated heat output and low temperature regime η <sub>1</sub> % 99,5 Auxiliary electricity consumption	Rated heat output	Prated	kW	24
Annual electricity consumption       AEC       kWh       32         Annual fuel consumption       AFC       GJ       18         Seasonal space heating energy efficiency       η <sub>S</sub> %       94         Water heating energy efficiency       η <sub>Wh</sub> %       85         Sound power level, indoors       L <sub>WA</sub> dB       52         Indication about ability working only during off-peak hours       No       No         Special precautions to be taken during assembly, installation or maintenance (if applicable)       see product accompanying documents         Condensing boiler       Yes         Low temperature boiler       No         B1 boiler       No         Cogeneration space heater       No         Combination heater       Yes         Useful heat output       Yes         Useful heat output       At 30% of rated heat output and high temperature regime       P4       kW       24,0         At 30% of rated heat output and high temperature regime       P1       kW       8,1         Useful efficiency         At 30% of rated heat output and low temperature regime       P4       %       88,8         At 30% of rated heat output and low temperature regime       P4       %       88,8         At 30% o	Annual energy consumption (average climate conditions)	$Q_{HE}$	kWh	-
Annual fuel consumption       AFC       GJ       18         Seasonal space heating energy efficiency       η <sub>S</sub> %       94         Water heating energy efficiency       η <sub>Wh</sub> %       85         Sound power level, indoors       L <sub>WA</sub> dB       52         Indication about ability working only during off-peak hours       No         Special precautions to be taken during assembly, installation or maintenance (if applicable)       see product accompanying documents         Condensing boiler       Yes         Low temperature boiler       No         B1 boiler       No         Cogeneration space heater       No         Combination heater       Yes         Useful heat output       Yes         Useful heat output and high temperature regime       P <sub>4</sub> kW       24,0         At 30 % of rated heat output and low temperature regime       P <sub>1</sub> kW       8,1         Useful efficiency         At rated heat output and high temperature regime       η <sub>4</sub> %       88,8         At 30 % of rated heat output and low temperature regime       η <sub>1</sub> %       99,5         Auxiliary electricity consumption	Annual energy consumption	Q <sub>HE</sub>	GJ	73
Seasonal space heating energy efficiency       η <sub>S</sub> %       94         Water heating energy efficiency       η <sub>wh</sub> %       85         Sound power level, indoors       L <sub>WA</sub> dB       52         Indication about ability working only during off-peak hours       No         Special precautions to be taken during assembly, installation or maintenance (if applicable)       see product accompanying documents         Condensing boiler       No         Low temperature boiler       No         B1 boiler       No         Cogeneration space heater       No         Combination heater       Yes         Useful heat output       Yes         Useful heat output and high temperature regime       P <sub>4</sub> kW       24,0         At 30 % of rated heat output and low temperature regime       P <sub>1</sub> kW       8,1         Useful efficiency         At rated heat output and high temperature regime       η <sub>4</sub> %       88,8         At 30 % of rated heat output and low temperature regime       η <sub>1</sub> %       99,5         Auxiliary electricity consumption	Annual electricity consumption	AEC	kWh	32
Water heating energy efficiency  Sound power level, indoors  Indication about ability working only during off-peak hours  Special precautions to be taken during assembly, installation or maintenance (if applicable)  See product accompanying documents  Condensing boiler  Low temperature boiler  No B1 boiler  No Cogeneration space heater  No Combination heater  Ves  Useful heat output  At rated heat output and high temperature regime  P4 kW 24,0  At 30 % of rated heat output and low temperature regime  At rated heat output and high temperature regime  Tyes  Useful efficiency  At rated heat output and high temperature regime  R1 88,8  At 30 % of rated heat output and low temperature regime  R2 88,8  At 30 % of rated heat output and low temperature regime  R3 99,5  Auxiliary electricity consumption	Annual fuel consumption	AFC	GJ	18
Sound power level, indoors  Indication about ability working only during off-peak hours  Special precautions to be taken during assembly, installation or maintenance (if applicable)  See product accompanying documents  Condensing boiler  Low temperature boiler  No B1 boiler  No Cogeneration space heater  No Combination heater  Ves  Useful heat output  At rated heat output and high temperature regime  P4 kW 24,0  At 30 % of rated heat output and low temperature regime  At rated heat output and high temperature regime  The second of rated heat output and high temperature regime  R1 WS SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	Seasonal space heating energy efficiency	η <sub>S</sub>	%	94
Indication about ability working only during off-peak hours       No         Special precautions to be taken during assembly, installation or maintenance (if applicable)       see product accompanying documents         Condensing boiler       Yes         Low temperature boiler       No         B1 boiler       No         Cogeneration space heater       No         Combination heater       Yes         Useful heat output       Yes         At rated heat output and high temperature regime       P4       kW       24,0         At 30 % of rated heat output and low temperature regime       P1       kW       8,1         Useful efficiency         At rated heat output and high temperature regime       η4       %       88,8         At 30 % of rated heat output and low temperature regime       η4       %       88,8         At 30 % of rated heat output and low temperature regime       η1       %       99,5         Auxiliary electricity consumption	Water heating energy efficiency	$\eta_{wh}$	%	85
Special precautions to be taken during assembly, installation or maintenance (if applicable)  Condensing boiler  Low temperature boiler  B1 boiler  No  Cogeneration space heater  No  Combination heater  Wes  Useful heat output  At rated heat output and high temperature regime  At 30 % of rated heat output and high temperature regime  At rated heat output and low temperature regime  The selection of the	Sound power level, indoors	L <sub>WA</sub>	dB	52
Condensing boiler  Low temperature boiler  B1 boiler  Cogeneration space heater  Combination heater  Wes  Useful heat output  At rated heat output and high temperature regime  At 30 % of rated heat output and low temperature regime  At rated heat output and high temperature regime  P <sub>1</sub> kW 8,1  Useful efficiency  At rated heat output and high temperature regime  At rated heat output and low temperature regime  The service of the service	Indication about ability working only during off-peak hours			No
Low temperature boiler  B1 boiler  No  Cogeneration space heater  No  Combination heater  Wes  Useful heat output  At rated heat output and high temperature regime  At 30 % of rated heat output and low temperature regime  P <sub>4</sub> Ww  8,1  Useful efficiency  At rated heat output and high temperature regime  P <sub>1</sub> Ww  8,1  At rated heat output and high temperature regime  P <sub>4</sub> Ww  88,8  At 30 % of rated heat output and low temperature regime  P <sub>4</sub> Ww  99,5  Auxiliary electricity consumption	Special precautions to be taken during assembly, installation or maintenance (if applicable)	see product accompanying documents		
B1 boiler  Cogeneration space heater  No  Combination heater  Ves  Useful heat output  At rated heat output and high temperature regime  At 30 % of rated heat output and low temperature regime  P <sub>4</sub> kW 24,0  At 30 % of rated heat output and low temperature regime  P <sub>1</sub> kW 8,1  Useful efficiency  At rated heat output and high temperature regime  η <sub>4</sub> % 88,8  At 30 % of rated heat output and low temperature regime  η <sub>1</sub> % 99,5  Auxiliary electricity consumption	Condensing boiler			Yes
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Low temperature boiler			No
Combination heater       Yes         Useful heat output       Ves         At rated heat output and high temperature regime $P_4$ kW 24,0         At 30 % of rated heat output and low temperature regime $P_1$ kW 8,1         Useful efficiency $P_1$ kW 88,8         At rated heat output and high temperature regime $P_1$ % 88,8         At 30 % of rated heat output and low temperature regime $P_1$ % 99,5         Auxiliary electricity consumption	B1 boiler			No
Useful heat output         At rated heat output and high temperature regime $P_4$ kW       24,0         At 30 % of rated heat output and low temperature regime $P_1$ kW       8,1         Useful efficiency         At rated heat output and high temperature regime $\eta_4$ %       88,8         At 30 % of rated heat output and low temperature regime $\eta_1$ %       99,5         Auxiliary electricity consumption	Cogeneration space heater			No
At rated heat output and high temperature regime $P_4$ kW 24,0  At 30 % of rated heat output and low temperature regime $P_1$ kW 8,1  Useful efficiency  At rated heat output and high temperature regime $P_1$ kW 88,8  At 30 % of rated heat output and low temperature regime $P_1$ kW 99,5  Auxiliary electricity consumption	Combination heater			Yes
At 30 % of rated heat output and low temperature regime $P_1$ kW 8,1 Useful efficiency  At rated heat output and high temperature regime $\eta_4$ % 88,8 At 30 % of rated heat output and low temperature regime $\eta_1$ % 99,5 Auxiliary electricity consumption	Useful heat output			
Useful efficiency         At rated heat output and high temperature regime $\eta_4$ %       88,8         At 30 % of rated heat output and low temperature regime $\eta_1$ %       99,5         Auxiliary electricity consumption	At rated heat output and high temperature regime	P <sub>4</sub>	kW	24,0
At rated heat output and high temperature regime $\eta_4$ % 88,8 At 30 % of rated heat output and low temperature regime $\eta_1$ % 99,5 Auxiliary electricity consumption	At 30 % of rated heat output and low temperature regime	P <sub>1</sub>	kW	8,1
At 30 % of rated heat output and low temperature regime $\eta_1$ % 99,5 Auxiliary electricity consumption	Useful efficiency			
Auxiliary electricity consumption	At rated heat output and high temperature regime	$\eta_4$	%	88,8
	At 30 % of rated heat output and low temperature regime	$\eta_1$	%	99,5
At full load elmax kW 0.029	Auxiliary electricity consumption			
7. C.	At full load	elmax	kW	0,029
At part load elmin kW 0,014	At part load	elmin	kW	0,014
In standby mode P <sub>SB</sub> kW 0,001	In standby mode	P <sub>SB</sub>	kW	0,001
Other items	Other items			
Standby heat loss P <sub>stby</sub> kW 0,078	Standby heat loss	P <sub>stby</sub>	kW	0,078
Ignition burner power consumption P <sub>ign</sub> kW -	Ignition burner power consumption	P <sub>ign</sub>	kW	-
Emissions of nitrogen oxides (only gas- or oil fired) NO <sub>x</sub> mg/kWh 25	Emissions of nitrogen oxides (only gas- or oil fired)	NO <sub>x</sub>	mg/kWh	25
Additional data for combination heaters	Additional data for combination heaters			
Daily electricity consumption (average climate conditions) Q <sub>elec</sub> kWh 0,144	Daily electricity consumption (average climate conditions)	Q <sub>elec</sub>	kWh	0,144
Daily fuel consumption Q <sub>fuel</sub> kWh 22,951	Daily fuel consumption	Q <sub>fuel</sub>	kWh	22,951

Specific precautions for installation, maintenance as well as recycling and/or disposal are provided within the installation and operating manuals. Read and follow the installation and operating manuals.