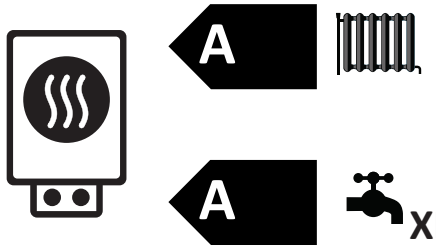
ENERG Y IJA IE IA

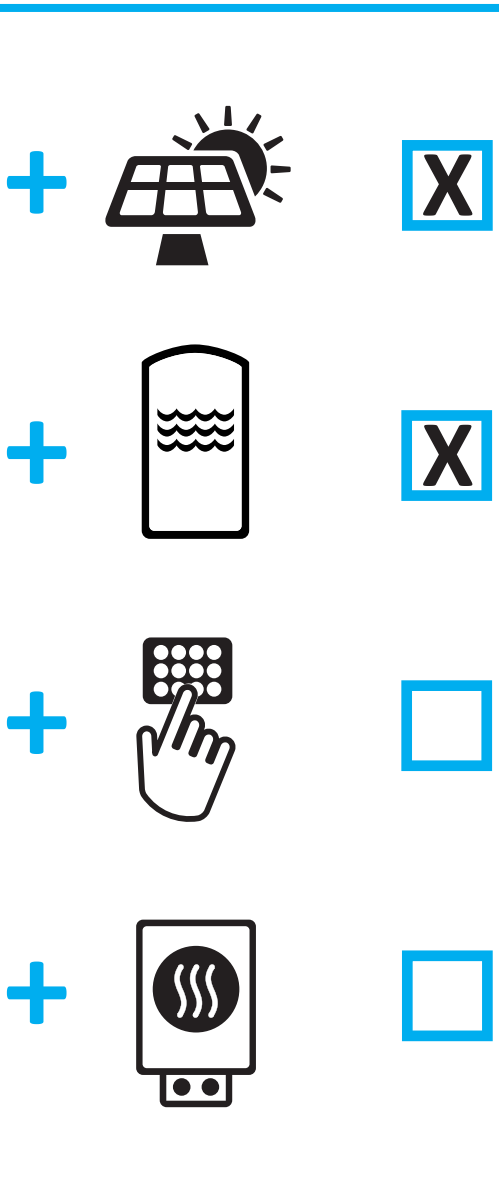
енергия · ενεργεια

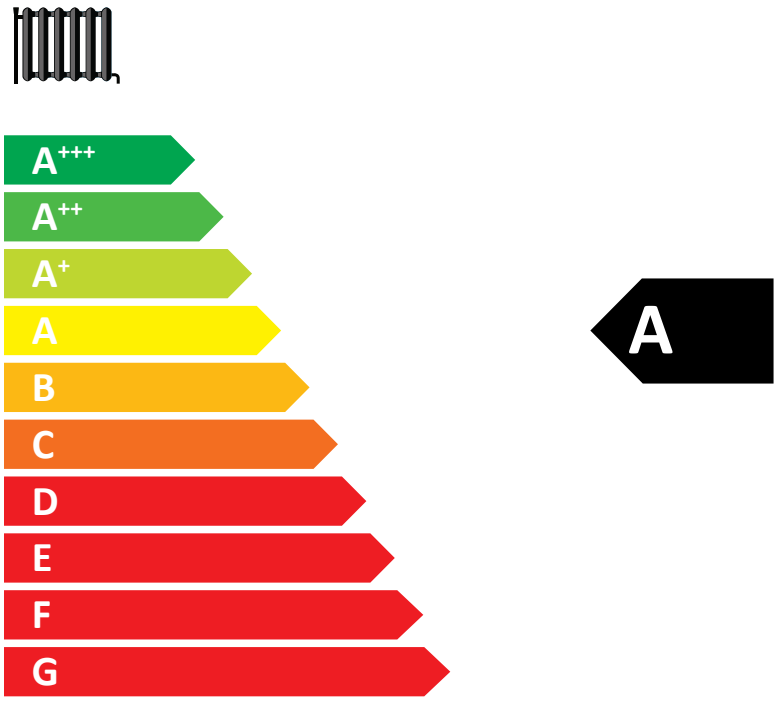
ATAG

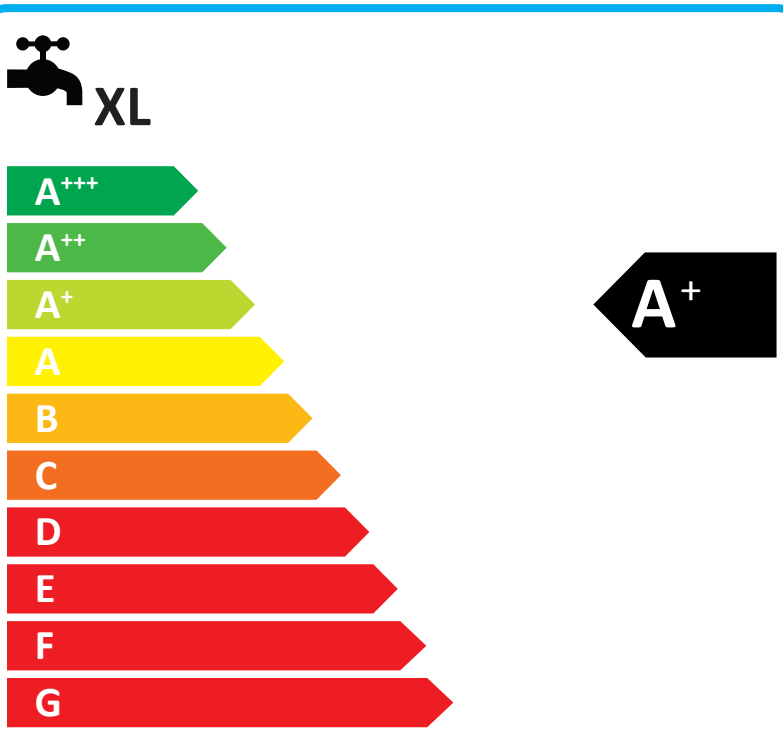
ZonneGasCombiQ

Q25SC200/4,8m²









2015

811/2013

Product fiche

Group: Space and combination heaters
Section: Preferential boiler or combi
Reference: CDR 811/2013, Annex IV, point 5, fig

Date: 3-9-2015

Suppliers model identifier:

Brand:	ATAG
Type:	Qsolar
Model:	Q25SC-200-4,8m²

Informative section

η_{sys} ('I'): Seasonal space heating energy efficiency
'III': 294/(11x$Prated_{pref}$)
IV' = 115/(11x$Prated_{pref}$)
Collector efficiency at: 40 K and 1 000 W/m2

[X] Preferential boiler (data from fiche)

$Prated_{pref}$ ⑩ = 22 kW — η_{ssh}('I'): 92,5 % (1)

[ ] Temperature control (data from fiche)

Class ⑪: n.a. ⇨ + 0,0 % (2)

[ ] Supplementary boiler (data from fiche)

η_{ssh} in %: (n.a. - 'I' 92,5) x 0,1 = ± 0,0 % (3)

[X] Solar contribution (data from fiche)

Collector size in m²: 'III': 1,22 x 4,38 + Tank volume in m³: 'IV' 0,48 x 0,191) x Collector efficiency in %: 0,9 x 65,0 /100 x Tank rating ⑭: C ⑮ 0,83 = + 2,6 % (4)

[ ] Supplementary heat pump (data from fiche)

$Prated_{sup}$ ⑫ = n.a kW
Storage applied ⑬: n.a.
η_{ssh} in %: (n.a. - 'I' 92,5) x 'II' n.a. = + 0,0 % (5)

Solar contribution AND supplementary heat pump
Select smaller value: 0,5 x (4) 2,6 OR 0,5 x (5) 0,0 - 0,0 % (6)
+

Seasonal space heating energy efficiency of package: $\eta_{ssh,pa}$ %: 95,1 % (7)

Seasonal space heating energy efficiency class of package

G	F	E	D	C	B	A	A+	A++	A+++
<30%	≥ 30%	≥ 34%	≥ 36%	≥ 75%	≥ 82%	≥ 90%	≥ 98%	≥ 125%	≥ 150%

Boiler & supplementary heat pump installed with low temperature heat emitters at 35 oC? No

(7) 95,1 + (50 x 'II' n.a.) = 95,1

'II' *(Annex IV, table 5)*

⑫ ⑩+⑫	⑬=No 'II'	⑬=Yes 'II'
0,0	0,00	0,00
0,1	0,30	0,37
0,2	0,55	0,70
0,3	0,75	0,85
0,4	0,85	0,94
0,5	0,95	0,98
0,6	0,98	1,00
0,7	1,00	1,00

Temp. control

⑪	(2)
I	1,0
II	2,0
III	1,5
IV	2,0
V	3,0
VI	4,0
VII	3,5
VIII	5,0

Heat storage tank

⑭	⑮
A+	0,95
A	0,91
B	0,86
C	0,83
D	0,81
E	0,81
F	0,81
G	0,81

	enter a value
	select value
Red	auto filled in
	calculated value

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as this efficiency is influenced by further factors such as heat losses in the distribution system and the dimensioning of the products in relation to the building size and characteristics.

Product fiche

Group: Space and combination heaters
Section: Combination heaters
Reference: CDR 811/2013, Annex IV, point 5, fig. 5

Date: 3-9-2015

Supliers name or trademark:

ATAG

Suppliers model identifier:

Brand: ATAG
Type: Qsolar
Model: Q25SC-200-4,8

Informative section

η_{sys} ('I'): Water heating energy efficiency
'II': $(220 \times Q_{ref})/Q_{nonsol}$
III' = $(Q_{aux} \times 2{,}5)/(220 \times Q_{ref})$

Annex VII, table 15

Load profile:	Q_{ref} kWh
M	5,845
L	11,655
XL	19,070
XXL	24,530

Q_{nonsol} = 2631,508 kWh
Q_{aux} = 31 kWh

Water heating efficiency of combination heater (data from fiche)

Declared load profile: XL — ηwh('I'): (1) 80,0 %

Solar contribution (data from fiche)

(1,1 x 'I' 80,0 - 10) x 'II' 1,594 - 'III' 0,018 - 'I' 80,0 = + (2) 44,4 %

+

Water heating energy efficiency of package (average climate)

$\eta_{wh,pa}$ %: (3) 124,4 %

Water heating energy efficiency class of package

	G	F	E	D	C	B	A	A+	A++	A+++
☐	M	<27%	≥ 27%	≥ 30%	≥ 33%	≥ 36%	≥ 39%	≥ 65%	≥ 100%	≥ 130%	≥ 163%
☐	L	<27%	≥ 27%	≥ 30%	≥ 34%	≥ 37%	≥ 50%	≥ 75%	≥ 115%	≥ 150%	≥ 188%
☒	XL	<27%	≥ 27%	≥ 30%	≥ 35%	≥ 38%	≥ 55%	≥ 80%	≥ 123%	≥ 160%	≥ 200%
☐	XXL	<28%	≥ 28%	≥ 32%	≥ 36%	≥ 40%	≥ 60%	≥ 85%	≥ 131%	≥ 170%	≥ 213%

Water heating energy efficiency under colder and warmer climate conditions

Colder: (3) 124,4 - 0,2 x (2) 44,4 = 115,5 %

Warmer: (3) 124,4 + 0,4 x (2) 44,4 = 142,1 %

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as this efficiency is influenced by further factors such as heat losses in the distribution system and the

	enter a value
	select value
Red	auto filled in
	calculated value

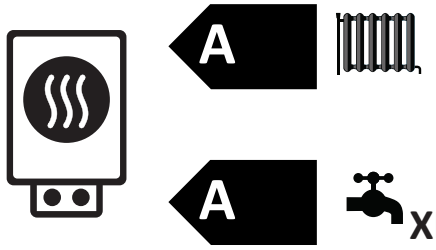
ENERG Y IJA IE IA

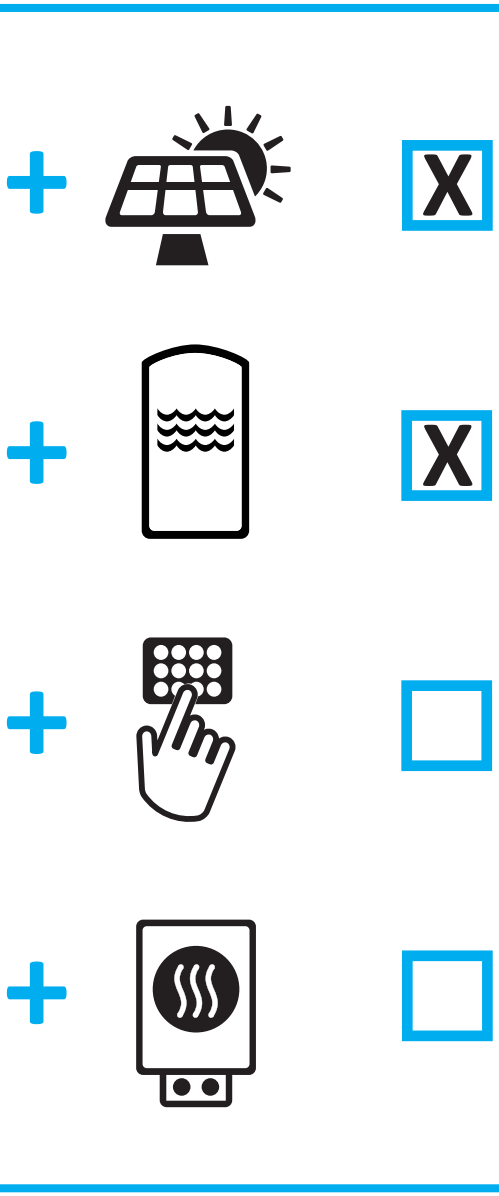
енергия · ενεργεια

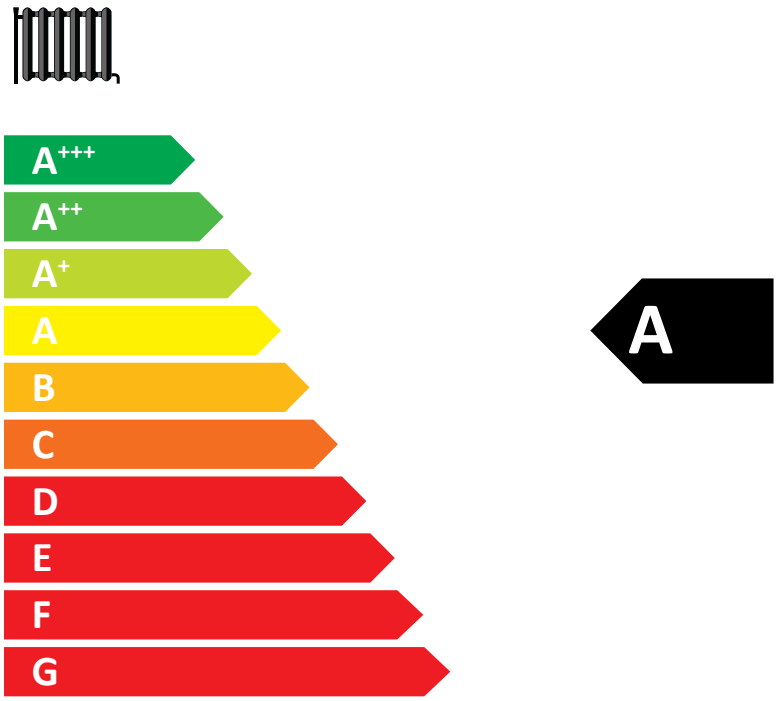
ATAG

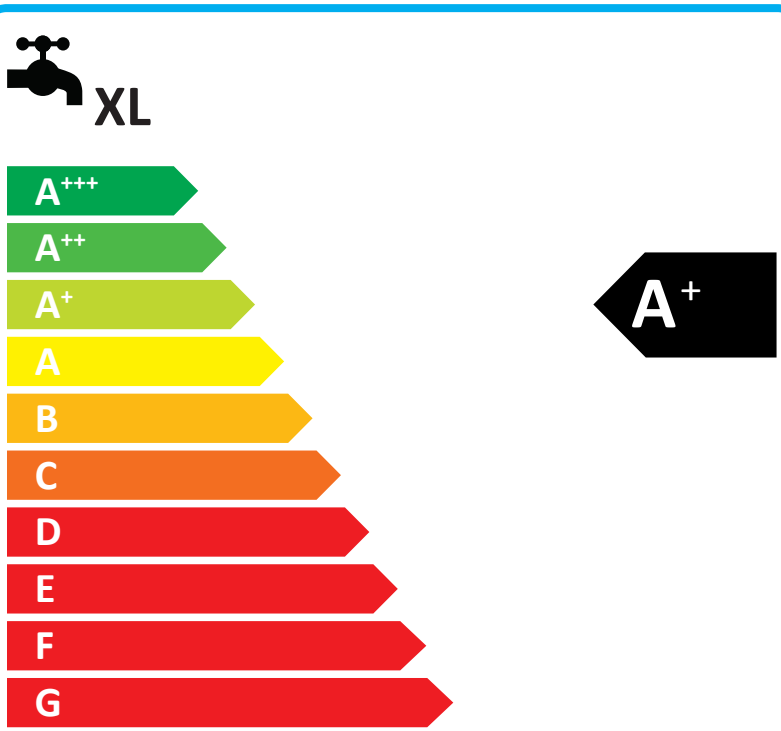
ZonneGasCombiQ

Q25SC380/4,8m²









2015

811/2013

Product fiche

Group: Space and combination heaters
Section: Preferential boiler or combi
Reference: CDR 811/2013, Annex IV, point 5, fig

Date: 3-9-2015

Suppliers model identifier:

Brand:	ATAG
Type:	Qsolar
Model:	Q25SC-380-4,8m²

Informative section

η_{sys} ('I'): Seasonal space heating energy efficiency
'III': 294/(11x$Prated_{pref}$)
IV' = 115/(11x$Prated_{pref}$)
Collector efficiency at:
40 K and 1 000 W/m2

[X] Preferential boiler (data from fiche)

$Prated_{pref}$ ⑩ = 22 kW — η_{ssh}('I'): 92,5 % (1)

[ ] Temperature control (data from fiche)

Class ⑪: n.a. ⇨ + 0,0 % (2)

[ ] Supplementary boiler (data from fiche)

η_{ssh} in %: (n.a. - 'I' 92,5) x 0,1 = ± 0,0 % (3)

[X] Solar contribution (data from fiche)

Collector size in m²: 'III': 1,22 x 4,38 + Tank volume in m³: 'IV' 0,48 x 0,37) x Collector efficiency in %: 0,9 x 65,0 /100 x Tank rating ⑭: D ⑮ 0,81 = + 2,6 % (4)

[ ] Supplementary heat pump (data from fiche)

$Prated_{sup}$ ⑫ = n.a kW
Storage applied ⑬: n.a.
η_{ssh} in %: (n.a. - 'I' 92,5) x 'II' n.a. = + 0,0 % (5)

Solar contribution AND supplementary heat pump
Select smaller value: 0,5 x (4) 2,6 OR 0,5 x (5) 0,0 - 0,0 % (6)
+

Seasonal space heating energy efficiency of package: $\eta_{ssh,pa}$ %: 95,1 % (7)

Seasonal space heating energy efficiency class of package

G	F	E	D	C	B	A	A+	A++	A+++
<30%	≥ 30%	≥ 34%	≥ 36%	≥ 75%	≥ 82%	≥ 90%	≥ 98%	≥ 125%	≥ 150%

Boiler & supplementary heat pump installed with low temperature heat emitters at 35 oC? No

(7) 95,1 + (50 x 'II' n.a.) = 95,1

'II' *(Annex IV, table 5)*

⑫ ⑩+⑫	⑬=No 'II'	⑬=Yes 'II'
0,0	0,00	0,00
0,1	0,30	0,37
0,2	0,55	0,70
0,3	0,75	0,85
0,4	0,85	0,94
0,5	0,95	0,98
0,6	0,98	1,00
0,7	1,00	1,00

Temp. control

⑪	(2)
I	1,0
II	2,0
III	1,5
IV	2,0
V	3,0
VI	4,0
VII	3,5
VIII	5,0

Heat storage tank

⑭	⑮
A+	0,95
A	0,91
B	0,86
C	0,83
D	0,81
E	0,81
F	0,81
G	0,81

	enter a value
	select value
Red	auto filled in
	calculated value

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as this efficiency is influenced by further factors such as heat losses in the distribution system and the dimensioning of the products in relation to the building size and characteristics.

Product fiche

Group: Space and combination heaters
Section: Combination heaters
Reference: CDR 811/2013, Annex IV, point 5, fig. 5

Date: 3-9-2015

Supliers name or trademark:

ATAG

Suppliers model identifier:

Brand: ATAG
Type: Qsolar
Model: Q25SC-380-4,8

Informative section

η_{sys} ('I'): Water heating energy efficiency
'II': $(220xQ_{ref})/Q_{nonsol}$
III' = $(Q_{aux}x2,5)/(220xQ_{ref})$

Annex VII, table 15

Load profile:	Q_{ref} kWh
M	5,845
L	11,655
XL	19,070
XXL	24,530

Q_{nonsol} = 2623,22 kWh
Q_{aux} = 31 kWh

Water heating efficiency of combination heater (data from fiche)

Declared load profile: XL — ηwh('I'): 80,0 % (1)

Solar contribution (data from fiche)

(1,1 x 'I' 80,0 - 10) x 'II' 1,599 - 'III' 0,018 - 'I' 80,0 = + 44,8 % (2)

+

Water heating energy efficiency of package (average climate)

$\eta_{wh,pa}$ %: 124,8 % (3)

Water heating energy efficiency class of package

	G	F	E	D	C	B	A	A+	A++	A+++
☐	M	<27%	≥ 27%	≥ 30%	≥ 33%	≥ 36%	≥ 39%	≥ 65%	≥ 100%	≥ 130%	≥ 163%
☐	L	<27%	≥ 27%	≥ 30%	≥ 34%	≥ 37%	≥ 50%	≥ 75%	≥ 115%	≥ 150%	≥ 188%
☒	XL	<27%	≥ 27%	≥ 30%	≥ 35%	≥ 38%	≥ 55%	≥ 80%	≥ 123%	≥ 160%	≥ 200%
☐	XXL	<28%	≥ 28%	≥ 32%	≥ 36%	≥ 40%	≥ 60%	≥ 85%	≥ 131%	≥ 170%	≥ 213%

Water heating energy efficiency under colder and warmer climate conditions

Colder: 124,8 (3) - 0,2 x 44,8 (2) = 115,8 %

Warmer: 124,8 (3) + 0,4 x 44,8 (2) = 142,7 %

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as this efficiency is influenced by further factors such as heat losses in the distribution system and the

	enter a value
	select value
Red	auto filled in
	calculated value

ENERG Y IJA
енергия · ενεργεια
IE IA

ATAG

ZonneGasCombiQ
Q38SC200/4,8m²

A

A XL

A+++
A++
A+
A
B
C
D
E
F
G

A

XL

A+++
A++
A+
A
B
C
D
E
F
G

A+

+ X

+ X

+ ☐

+ ☐

2015

811/2013

Product fiche

Group: Space and combination heaters
Section: Preferential boiler or combi
Reference: CDR 811/2013, Annex IV, point 5, fig

Date: 3-9-2015

Suppliers model identifier:

Brand:	ATAG
Type:	Qsolar
Model:	Q38SC-200-4,8m²

Informative section

η_{sys} ('I'): Seasonal space heating energy efficiency
'III': 294/(11x$Prated_{pref}$)
IV' = 115/(11x$Prated_{pref}$)
Collector efficiency at: 40 K and 1 000 W/m2

[X] Preferential boiler (data from fiche)

$Prated_{pref}$ ⑩ = 33 kW — η_{ssh}('I'): 92,6 % (1)

[ ] Temperature control (data from fiche)

Class ⑪: n.a. ⇨ + 0,0 % (2)

[ ] Supplementary boiler (data from fiche)

η_{ssh} in %: (n.a. - 'I' 92,6) x 0,1 = ± 0,0 % (3)

[X] Solar contribution (data from fiche)

Collector size in m²: 'III': 0,80 x 4,38 + Tank volume in m³: 'IV' 0,31 x 0,191) x 0,9 x Collector efficiency in %: 65,0 /100 x Tank rating ⑭: C ⑮ 0,83 = + 1,7 % (4)

[ ] Supplementary heat pump (data from fiche)

$Prated_{sup}$ ⑫ = n.a kW
Storage applied ⑬: n.a.
η_{ssh} in %: (n.a. - 'I' 92,6) x 'II' n.a. = + 0,0 % (5)

Solar contribution AND supplementary heat pump
Select smaller value: 0,5 x (4) 1,7 OR 0,5 x (5) 0,0 - 0,0 % (6)
+

Seasonal space heating energy efficiency of package: $\eta_{ssh,pa}$ %: 94,3 % (7)

Seasonal space heating energy efficiency class of package

G	F	E	D	C	B	A	A+	A++	A+++
<30%	≥ 30%	≥ 34%	≥ 36%	≥ 75%	≥ 82%	≥ 90%	≥ 98%	≥ 125%	≥ 150%

Boiler & supplementary heat pump installed with low temperature heat emitters at 35 oC? No

(7) 94,3 + (50 x 'II' n.a.) = 94,3

'II' *(Annex IV, table 5)*

⑫ ⑩+⑫	⑬=No 'II'	⑬=Yes 'II'
0,0	0,00	0,00
0,1	0,30	0,37
0,2	0,55	0,70
0,3	0,75	0,85
0,4	0,85	0,94
0,5	0,95	0,98
0,6	0,98	1,00
0,7	1,00	1,00

Temp. control

⑪	(2)
I	1,0
II	2,0
III	1,5
IV	2,0
V	3,0
VI	4,0
VII	3,5
VIII	5,0

Heat storage tank

⑭	⑮
A+	0,95
A	0,91
B	0,86
C	0,83
D	0,81
E	0,81
F	0,81
G	0,81

	enter a value
	select value
Red	auto filled in
	calculated value

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as this efficiency is influenced by further factors such as heat losses in the distribution system and the dimensioning of the products in relation to the building size and characteristics.

Product fiche

Group: Space and combination heaters
Section: Combination heaters
Reference: CDR 811/2013, Annex IV, point 5, fig. 5

Date: 3-9-2015

Supliers name or trademark:

ATAG

Suppliers model identifier:

Brand: ATAG
Type: Qsolar
Model: Q38SC-200-4,8

Informative section

η_{sys} ('I'): Water heating energy efficiency
'II': $(220 \times Q_{ref})/Q_{nonsol}$
III' = $(Q_{aux} \times 2{,}5)/(220 \times Q_{ref})$

Annex VII, table 15

Load profile:	Q_{ref} kWh
M	5,845
L	11,655
XL	19,070
XXL	24,530

Water heating efficiency of combination heater (data from fiche)

Declared load profile: XL — ηwh('I'): 80,0 % (1)

Solar contribution (data from fiche)

(1,1 x 'I' 80,0 - 10) x 'II' 1,594 - 'III' 0,018 - 'I' 80,0 = + 44,4 % (2)

+

Q_{nonsol} = 2631,508 kWh
Q_{aux} = 31 kWh

Water heating energy efficiency of package (average climate)

$\eta_{wh,pa}$ %: 124,4 % (3)

Water heating energy efficiency class of package

	G	F	E	D	C	B	A	A+	A++	A+++
☐ M	<27%	≥ 27%	≥ 30%	≥ 33%	≥ 36%	≥ 39%	≥ 65%	≥ 100%	≥ 130%	≥ 163%
☐ L	<27%	≥ 27%	≥ 30%	≥ 34%	≥ 37%	≥ 50%	≥ 75%	≥ 115%	≥ 150%	≥ 188%
☒ XL	<27%	≥ 27%	≥ 30%	≥ 35%	≥ 38%	≥ 55%	≥ 80%	≥ 123%	≥ 160%	≥ 200%
☐ XXL	<28%	≥ 28%	≥ 32%	≥ 36%	≥ 40%	≥ 60%	≥ 85%	≥ 131%	≥ 170%	≥ 213%

Water heating energy efficiency under colder and warmer climate conditions

Colder: 124,4 (3) - 0,2 x 44,4 (2) = 115,5 %

Warmer: 124,4 (3) + 0,4 x 44,4 (2) = 142,1 %

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as this efficiency is influenced by further factors such as heat losses in the distribution system and the

	enter a value
	select value
Red	auto filled in
	calculated value

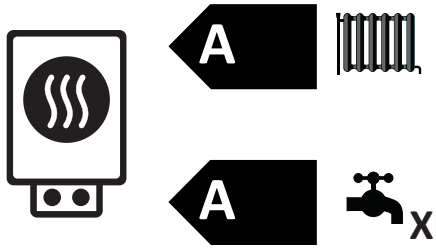
ENERG Y IJA IE IA

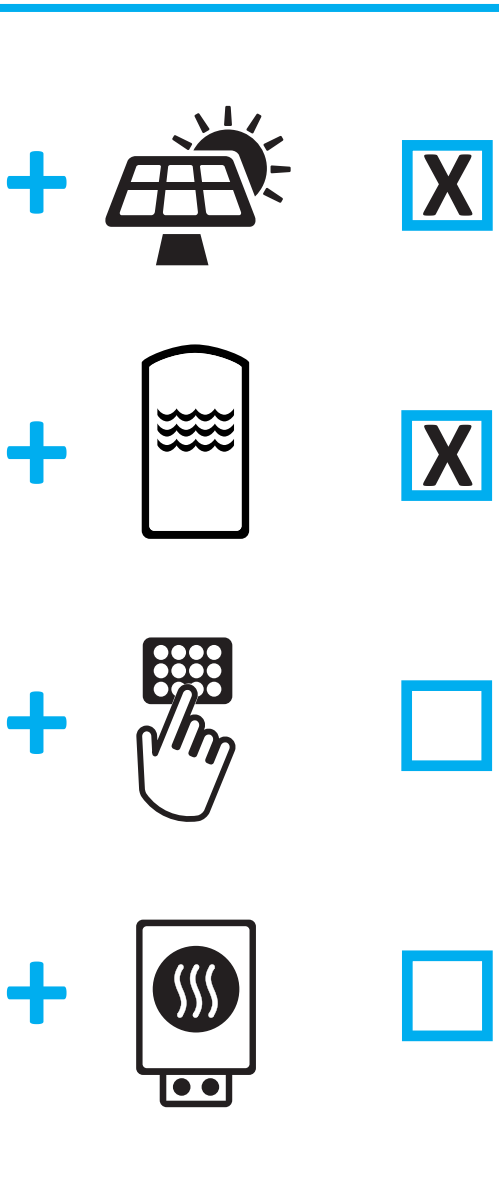
енергия · ενεργεια

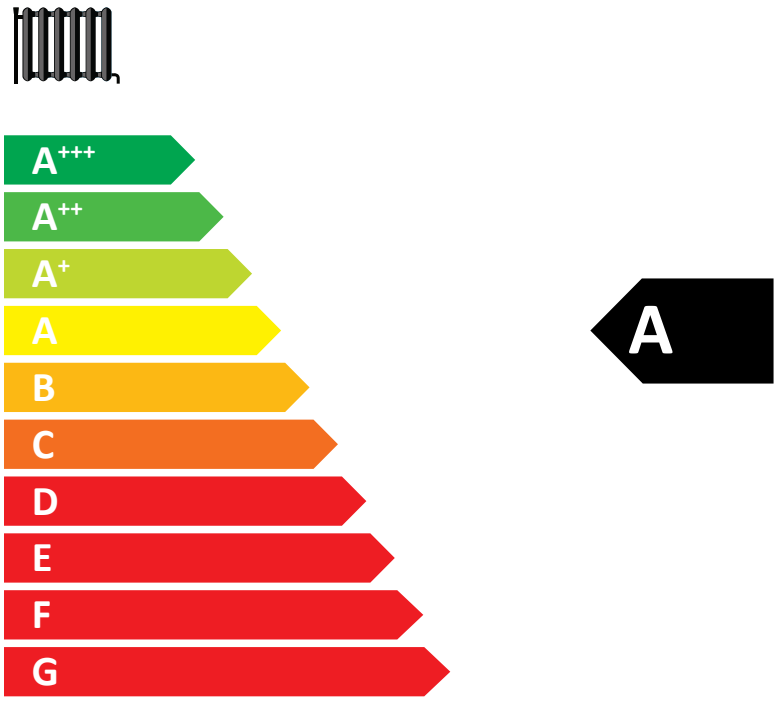
ATAG

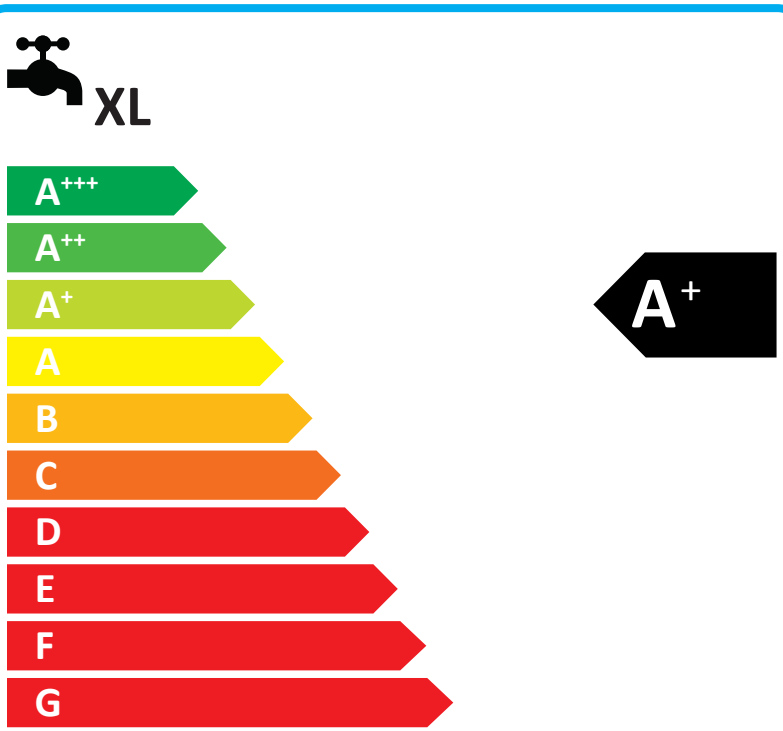
ZonneGasCombiQ

Q38SC380/4,8m²









2015

811/2013

Product fiche

Group: Space and combination heaters
Section: Preferential boiler or combi
Reference: CDR 811/2013, Annex IV, point 5, fig

Date: 3-9-2015

Suppliers model identifier:

Brand:	ATAG
Type:	Qsolar
Model:	Q38SC-380-4,8m²

Informative section

η_{sys} ('I'): Seasonal space heating energy efficiency
'III': 294/(11x$Prated_{pref}$)
IV' = 115/(11x$Prated_{pref}$)
Collector efficiency at:
40 K and 1 000 W/m2

[X] Preferential boiler (data from fiche)

$Prated_{pref}$ ⑩ = 33 kW — η_{ssh}('I'): 92,6 % (1)

[ ] Temperature control (data from fiche)

Class ⑪: n.a. ⇨ + 0,0 % (2)

[ ] Supplementary boiler (data from fiche)

η_{ssh} in %: (n.a. - 'I' 92,6) x 0,1 = ± 0,0 % (3)

[X] Solar contribution (data from fiche)

Collector size in m²: 'III': 0,80 x 4,38 + Tank volume in m³: 'IV' 0,31 x 0,37) x Collector efficiency in %: 0,9 x 65,0 /100 x Tank rating ⑭: D ⑮ 0,81 = + 1,7 % (4)

[ ] Supplementary heat pump (data from fiche)

$Prated_{sup}$ ⑫ = n.a kW
Storage applied ⑬: n.a.
η_{ssh} in %: (n.a. - 'I' 92,6) x 'II' n.a. = + 0,0 % (5)

Solar contribution AND supplementary heat pump
Select smaller value: 0,5 x (4) 1,7 OR 0,5 x (5) 0,0 - 0,0 % (6) +

Seasonal space heating energy efficiency of package: $\eta_{ssh,pa}$ %: 94,3 % (7)

Seasonal space heating energy efficiency class of package

G	F	E	D	C	B	A	A+	A++	A+++
<30%	≥ 30%	≥ 34%	≥ 36%	≥ 75%	≥ 82%	≥ 90%	≥ 98%	≥ 125%	≥ 150%

Boiler & supplementary heat pump installed with low temperature heat emitters at 35 oC? No

(7) 94,3 + (50 x 'II' n.a.) = 94,3

'II' *(Annex IV, table 5)*

⑫ ⑩+⑫	⑬=No 'II'	⑬=Yes 'II'
0,0	0,00	0,00
0,1	0,30	0,37
0,2	0,55	0,70
0,3	0,75	0,85
0,4	0,85	0,94
0,5	0,95	0,98
0,6	0,98	1,00
0,7	1,00	1,00

Temp. control

⑪	(2)
I	1,0
II	2,0
III	1,5
IV	2,0
V	3,0
VI	4,0
VII	3,5
VIII	5,0

Heat storage tank

⑭	⑮
A+	0,95
A	0,91
B	0,86
C	0,83
D	0,81
E	0,81
F	0,81
G	0,81

enter a value
select value
Red auto filled in
calculated value

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as this efficiency is influenced by further factors such as heat losses in the distribution system and the dimensioning of the products in relation to the building size and characteristics.

Product fiche

Group: Space and combination heaters
Section: Combination heaters
Reference: CDR 811/2013, Annex IV, point 5, fig. 5

Date: 3-9-2015

Supliers name or trademark:

ATAG

Suppliers model identifier:

Brand: ATAG
Type: Qsolar
Model: Q38SC-380-4,8

Water heating efficiency of combination heater (data from fiche)

Declared load profile: XL

η_{wh}('I'): 80,0 % (1)

Solar contribution (data from fiche)

(1,1 x 'I' 80,0 - 10) x 'II' 1,599 - 'III' 0,018 - 'I' 80,0 = + 44,8 % (2)

+

Water heating energy efficiency of package (average climate)

$\eta_{wh,pa}$ %: 124,8 % (3)

Water heating energy efficiency class of package

	G	F	E	D	C	B	A	A+	A++	A+++
☐ M	<27%	≥ 27%	≥ 30%	≥ 33%	≥ 36%	≥ 39%	≥ 65%	≥ 100%	≥ 130%	≥ 163%
☐ L	<27%	≥ 27%	≥ 30%	≥ 34%	≥ 37%	≥ 50%	≥ 75%	≥ 115%	≥ 150%	≥ 188%
☒ XL	<27%	≥ 27%	≥ 30%	≥ 35%	≥ 38%	≥ 55%	≥ 80%	≥ 123%	≥ 160%	≥ 200%
☐ XXL	<28%	≥ 28%	≥ 32%	≥ 36%	≥ 40%	≥ 60%	≥ 85%	≥ 131%	≥ 170%	≥ 213%

Water heating energy efficiency under colder and warmer climate conditions

Colder: 124,8 (3) - 0,2 x 44,8 (2) = 115,8 %

Warmer: 124,8 (3) + 0,4 x 44,8 (2) = 142,7 %

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as this efficiency is influenced by further factors such as heat losses in the distribution system and the

Informative section

η_{sys} ('I'): Water heating energy efficiency

'II': $(220 \times Q_{ref})/Q_{nonsol}$

III' = $(Q_{aux} \times 2,5)/(220 \times Q_{ref})$

Annex VII, table 15

Load profile:	Q_{ref} kWh
M	5,845
L	11,655
XL	19,070
XXL	24,530

Q_{nonsol} = 2623,22 kWh
Q_{aux} = 31 kWh

	enter a value
	select value
Red	auto filled in
	calculated value

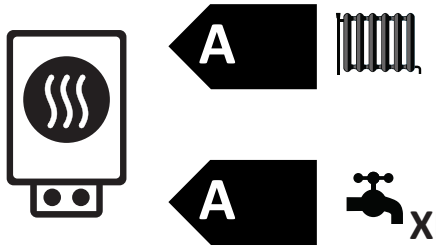
ENERG Y IJA IE IA

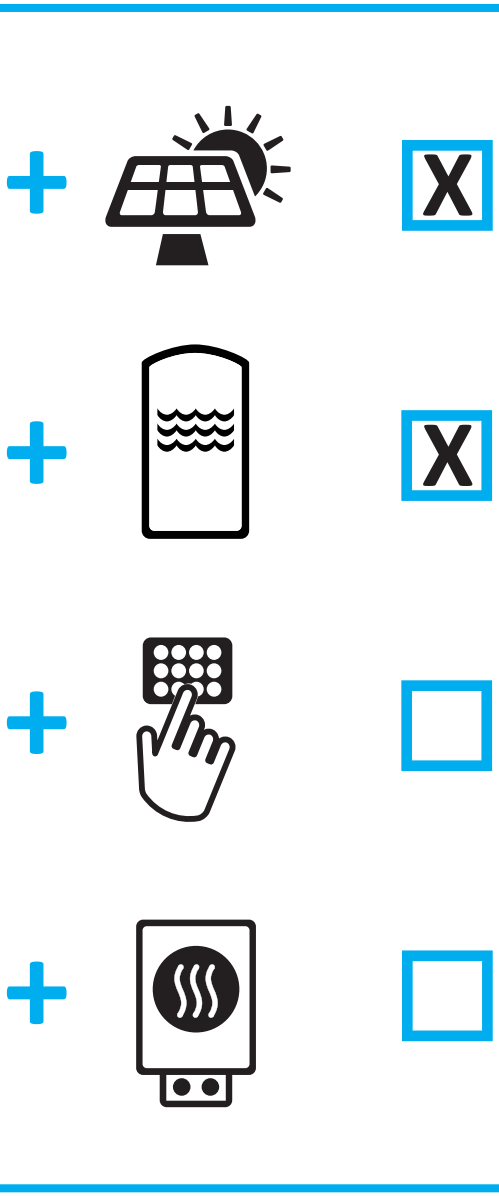
енергия · ενεργεια

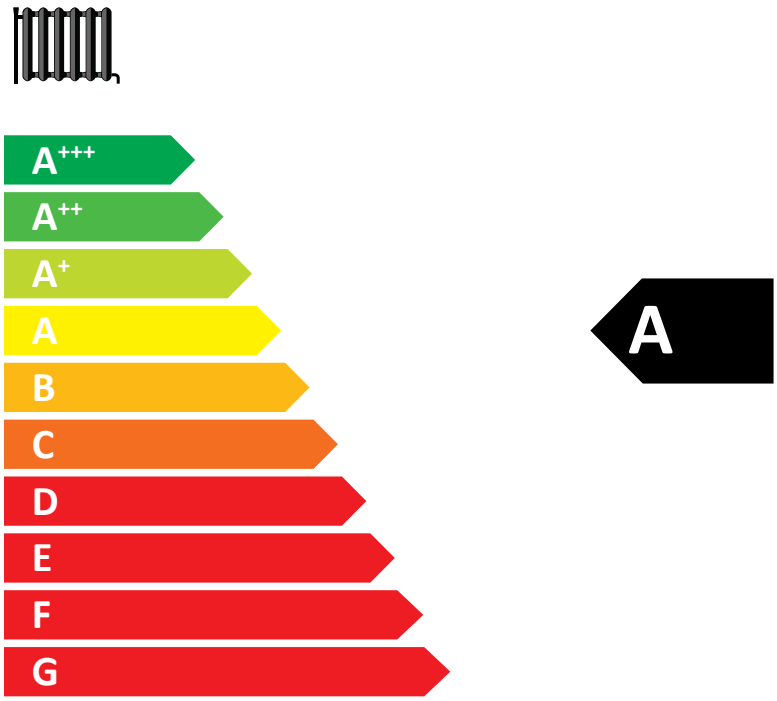
ATAG

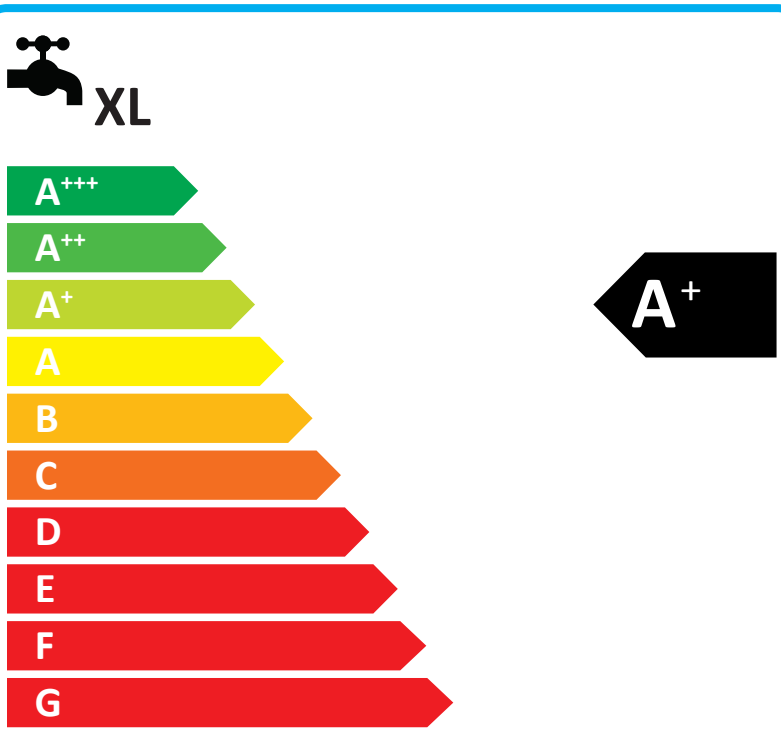
ZonneGasCombiQ

Q25SC200/5,0m²









2015

811/2013

Product fiche

Group: Space and combination heaters
Section: Preferential boiler or combi
Reference: CDR 811/2013, Annex IV, point 5, fig

Date: 3-9-2015

Suppliers model identifier:

Brand:	ATAG
Type:	Qsolar
Model:	Q25SC-200-5,0m²

Informative section

η_{sys} ('I'): Seasonal space heating energy efficiency
'III': 294/(11x$Prated_{pref}$)
IV' = 115/(11x$Prated_{pref}$)
Collector efficiency at: 40 K and 1 000 W/m2

[X] Preferential boiler (data from fiche)

$Prated_{pref}$ ⑩ = 22 kW η_{ssh}('I'): 92,5 % ①

[ ] Temperature control (data from fiche)

Class ⑪: n.a. ⇨ + 0,0 % ②

[ ] Supplementary boiler (data from fiche)

η_{ssh} in %: (n.a. - 'I' 92,5) x 0,1 = ± 0,0 % ③

[X] Solar contribution (data from fiche)

Collector size in m²: 'III': 1,22 x 4,56 + Tank volume in m³: 'IV' 0,48 x 0,191) x Collector efficiency in %: 0,9 x 67,0 /100 x Tank rating ⑭: C ⑮ 0,83 = + 2,8 % ④

[ ] Supplementary heat pump (data from fiche)

$Prated_{sup}$ ⑫ = n.a kW
Storage applied ⑬: n.a.
η_{ssh} in %: (n.a. - 'I' 92,5) x 'II' n.a. = + 0,0 % ⑤

Solar contribution AND supplementary heat pump
Select smaller value: 0,5 x ④ 2,8 OR 0,5 x ⑤ 0,0 - 0,0 % ⑥
+

Seasonal space heating energy efficiency of package: $\eta_{ssh,pa}$ %: 95,3 % ⑦

Seasonal space heating energy efficiency class of package

G	F	E	D	C	B	[X] A	A⁺	A⁺⁺	A⁺⁺⁺
<30%	≥ 30%	≥ 34%	≥ 36%	≥ 75%	≥ 82%	≥ 90%	≥ 98%	≥ 125%	≥ 150%

Boiler & supplementary heat pump installed with low temperature heat emitters at 35 oC? No

⑦ 95,3 + (50 x 'II' n.a.) = 95,3

Temp. control

⑪	②
I	1,0
II	2,0
III	1,5
IV	2,0
V	3,0
VI	4,0
VII	3,5
VIII	5,0

'II' *(Annex IV, table 5)*

⑫	⑬=No	⑬=Yes
⑩+⑫	'II'	'II'
0,0	0,00	0,00
0,1	0,30	0,37
0,2	0,55	0,70
0,3	0,75	0,85
0,4	0,85	0,94
0,5	0,95	0,98
0,6	0,98	1,00
0,7	1,00	1,00

Heat storage tank

⑭	⑮
A+	0,95
A	0,91
B	0,86
C	0,83
D	0,81
E	0,81
F	0,81
G	0,81

enter a value
select value
Red auto filled in
calculated value

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as this efficiency is influenced by further factors such as heat losses in the distribution system and the dimensioning of the products in relation to the building size and characteristics.

Product fiche

Group: Space and combination heaters
Section: Combination heaters
Reference: CDR 811/2013, Annex IV, point 5, fig. 5

Date: 3-9-2015

Supliers name or trademark:

ATAG

Suppliers model identifier:

Brand: ATAG
Type: Qsolar
Model: Q25SC-200-5,0

Water heating efficiency of combination heater (data from fiche)

Declared load profile: XL — ηwh('I'): 80,0 % (1)

Solar contribution (data from fiche)

(1,1 x 'I' 80,0 - 10) x 'II' 1,764 - 'III' 0,008 - 'I' 80,0 = + 57,6 % (2)

+

Water heating energy efficiency of package (average climate)

$\eta_{wh,pa}$ %: 137,6 % (3)

Water heating energy efficiency class of package

	G	F	E	D	C	B	A	A+	A++	A+++
☐	M	<27%	≥ 27%	≥ 30%	≥ 33%	≥ 36%	≥ 39%	≥ 65%	≥ 100%	≥ 130%	≥ 163%
☐	L	<27%	≥ 27%	≥ 30%	≥ 34%	≥ 37%	≥ 50%	≥ 75%	≥ 115%	≥ 150%	≥ 188%
☒	XL	<27%	≥ 27%	≥ 30%	≥ 35%	≥ 38%	≥ 55%	≥ 80%	≥ 123%	≥ 160%	≥ 200%
☐	XXL	<28%	≥ 28%	≥ 32%	≥ 36%	≥ 40%	≥ 60%	≥ 85%	≥ 131%	≥ 170%	≥ 213%

Water heating energy efficiency under colder and warmer climate conditions

Colder: 137,6 (3) - 0,2 x 57,6 (2) = 126,1 %

Warmer: 137,6 (3) + 0,4 x 57,6 (2) = 160,7 %

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as this efficiency is influenced by further factors such as heat losses in the distribution system and the

Informative section

η_{sys} ('I'): Water heating energy efficiency

'II': $(220 \times Q_{ref})/Q_{nonsol}$

III' = $(Q_{aux} \times 2,5)/(220 \times Q_{ref})$

Annex VII, table 15

Load profile:	Q_{ref} kWh
M	5,845
L	11,655
XL	19,070
XXL	24,530

Q_{nonsol} = 2378,491 kWh
Q_{aux} = 14 kWh

	enter a value
	select value
Red	auto filled in
	calculated value

ENERG Y IJA IE IA

енергия · ενεργεια

ATAG

ZonneGasCombiQ

Q25SC380/5,0m²

A

A XL

+ X

+ X

+ ☐

+ ☐

A+++
A++
A+
A
B
C
D
E
F
G

A

XL

A+++
A++
A+
A
B
C
D
E
F
G

A+

2015

811/2013

Product fiche

Group: Space and combination heaters
Section: Preferential boiler or combi
Reference: CDR 811/2013, Annex IV, point 5, fig

Date: 3-9-2015

Suppliers model identifier:

Brand:	ATAG
Type:	Qsolar
Model:	Q25SC-380-5,0m²

Informative section

η_{sys} ('I'): Seasonal space heating energy efficiency
'III': 294/(11x$Prated_{pref}$)
IV' = 115/(11x$Prated_{pref}$)
Collector efficiency at:
40 K and 1 000 W/m2

[X] Preferential boiler (data from fiche)

$Prated_{pref}$ ⑩ = 22 kW η_{ssh}('I'): 92,5 % (1)

[ ] Temperature control (data from fiche)

Class ⑪: n.a. ⇨ + 0,0 % (2)

[ ] Supplementary boiler (data from fiche)

η_{ssh} in %: (n.a. - 'I' 92,5) x 0,1 = ± 0,0 % (3)

[X] Solar contribution (data from fiche)

Collector size in m²: 'III': 1,22 x 4,56 + Tank volume in m³: 'IV' 0,48 x 0,37) x Collector efficiency in %: 0,9 x 67,0 /100 x Tank rating ⑭: D ⑮ 0,81 = + 2,8 % (4)

[ ] Supplementary heat pump (data from fiche)

$Prated_{sup}$ ⑫ = n.a kW
Storage applied ⑬: n.a.
η_{ssh} in %: (n.a. - 'I' 92,5) x 'II' n.a. = + 0,0 % (5)

Solar contribution AND supplementary heat pump
Select smaller value: 0,5 x (4) 2,8 OR 0,5 x (5) 0,0 - 0,0 % (6)
+

Seasonal space heating energy efficiency of package: $\eta_{ssh,pa}$ %: 95,3 % (7)

Seasonal space heating energy efficiency class of package

G	F	E	D	C	B	A	A+	A++	A+++
<30%	≥ 30%	≥ 34%	≥ 36%	≥ 75%	≥ 82%	≥ 90%	≥ 98%	≥ 125%	≥ 150%

Boiler & supplementary heat pump installed with low temperature heat emitters at 35 oC? No

(7) 95,3 + (50 x 'II' n.a.) = 95,3

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as this efficiency is influenced by further factors such as heat losses in the distribution system and the dimensioning of the products in relation to the building size and characteristics.

Temp. control

⑪	(2)
I	1,0
II	2,0
III	1,5
IV	2,0
V	3,0
VI	4,0
VII	3,5
VIII	5,0

'II' *(Annex IV, table 5)*

⑫	⑬=No	⑬=Yes
⑩+⑫	'II'	'II'
0,0	0,00	0,00
0,1	0,30	0,37
0,2	0,55	0,70
0,3	0,75	0,85
0,4	0,85	0,94
0,5	0,95	0,98
0,6	0,98	1,00
0,7	1,00	1,00

Heat storage tank

⑭	⑮
A+	0,95
A	0,91
B	0,86
C	0,83
D	0,81
E	0,81
F	0,81
G	0,81

enter a value
select value
Red auto filled in
calculated value

Product fiche

Group: Space and combination heaters
Section: Combination heaters
Reference: CDR 811/2013, Annex IV, point 5, fig. 5

Date: 3-9-2015

Supliers name or trademark:

ATAG

Suppliers model identifier:

Brand: ATAG
Type: Qsolar
Model: Q25SC-380-5,0

Informative section

η_{sys} ('I'): Water heating energy efficiency
'II': $(220 \times Q_{ref})/Q_{nonsol}$
III' = $(Q_{aux} \times 2{,}5)/(220 \times Q_{ref})$

Annex VII, table 15

Load profile:	Q_{ref} kWh
M	5,845
L	11,655
XL	19,070
XXL	24,530

Q_{nonsol} = 2379,497 kWh
Q_{aux} = 14 kWh

Water heating efficiency of combination heater (data from fiche)

Declared load profile: XL — ηwh('I'): (1) 80,0 %

Solar contribution (data from fiche)

(1,1 x 'I' 80,0 - 10) x 'II' 1,763 - 'III' 0,008 - 'I' 80,0 = + (2) 57,5 %

\+

Water heating energy efficiency of package (average climate)

$\eta_{wh,pa}$ %: (3) 137,6 %

Water heating energy efficiency class of package

	G	F	E	D	C	B	A	A+	A++	A+++
☐ M	<27%	≥ 27%	≥ 30%	≥ 33%	≥ 36%	≥ 39%	≥ 65%	≥ 100%	≥ 130%	≥ 163%
☐ L	<27%	≥ 27%	≥ 30%	≥ 34%	≥ 37%	≥ 50%	≥ 75%	≥ 115%	≥ 150%	≥ 188%
☒ XL	<27%	≥ 27%	≥ 30%	≥ 35%	≥ 38%	≥ 55%	≥ 80%	≥ 123%	≥ 160%	≥ 200%
☐ XXL	<28%	≥ 28%	≥ 32%	≥ 36%	≥ 40%	≥ 60%	≥ 85%	≥ 131%	≥ 170%	≥ 213%

Water heating energy efficiency under colder and warmer climate conditions

Colder: (3) 137,6 - 0,2 x (2) 57,5 = 126,1 %

Warmer: (3) 137,6 + 0,4 x (2) 57,5 = 160,6 %

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as this efficiency is influenced by further factors such as heat losses in the distribution system and the

	enter a value
	select value
Red	auto filled in
	calculated value

ENERG Y IJA IE IA

енергия · ενεργεια

ATAG

ZonneGasCombiQ

Q38SC200/5,0m²

A

A XL

+ X

+ X

+ ☐

+ ☐

A+++
A++
A+
A
B
C
D
E
F
G

A

XL

A+++
A++
A+
A
B
C
D
E
F
G

A+

2015

811/2013

Product fiche

Group: Space and combination heaters
Section: Preferential boiler or combi
Reference: CDR 811/2013, Annex IV, point 5, fig

Date: 3-9-2015

Suppliers model identifier:

Brand:	ATAG
Type:	Qsolar
Model:	Q38SC-200-5,0m²

Informative section

η_{sys} ('I'): Seasonal space heating energy efficiency
'III': 294/(11x$Prated_{pref}$)
IV' = 115/(11x$Prated_{pref}$)
Collector efficiency at: 40 K and 1 000 W/m2

[X] Preferential boiler (data from fiche)

$Prated_{pref}$ ⑩ = 33 kW — η_{ssh}('I'): 92,6 % (1)

[ ] Temperature control (data from fiche)

Class ⑪: n.a. ⇨ + 0,0 % (2)

[ ] Supplementary boiler (data from fiche)

η_{ssh} in %: (n.a. - 'I' 92,6) x 0,1 = ± 0,0 % (3)

[X] Solar contribution (data from fiche)

Collector size in m²: 'III': 0,80 x 4,56 + Tank volume in m³: 'IV' 0,31 x 0,191) x 0,9 x Collector efficiency in %: 67,0 /100 x Tank rating ⑭: C ⑮ 0,83 = + 1,9 % (4)

[ ] Supplementary heat pump (data from fiche)

$Prated_{sup}$ ⑫ = n.a kW
Storage applied ⑬: n.a.
η_{ssh} in %: (n.a. - 'I' 92,6) x 'II' n.a. = + 0,0 % (5)

Solar contribution AND supplementary heat pump
Select smaller value: 0,5 x (4) 1,9 OR 0,5 x (5) 0,0 - 0,0 % (6)
+

Seasonal space heating energy efficiency of package: $\eta_{ssh,pa}$ %: 94,5 % (7)

Seasonal space heating energy efficiency class of package

G	F	E	D	C	B	A	A+	A++	A+++
<30%	≥ 30%	≥ 34%	≥ 36%	≥ 75%	≥ 82%	≥ 90%	≥ 98%	≥ 125%	≥ 150%

Boiler & supplementary heat pump installed with low temperature heat emitters at 35 oC? No

(7) 94,5 + (50 x 'II' n.a.) = 94,5

'II' *(Annex IV, table 5)*

⑫ ⑩+⑫	⑬=No 'II'	⑬=Yes 'II'
0,0	0,00	0,00
0,1	0,30	0,37
0,2	0,55	0,70
0,3	0,75	0,85
0,4	0,85	0,94
0,5	0,95	0,98
0,6	0,98	1,00
0,7	1,00	1,00

Temp. control

⑪	(2)
I	1,0
II	2,0
III	1,5
IV	2,0
V	3,0
VI	4,0
VII	3,5
VIII	5,0

Heat storage tank

⑭	⑮
A+	0,95
A	0,91
B	0,86
C	0,83
D	0,81
E	0,81
F	0,81
G	0,81

	enter a value
	select value
Red	auto filled in
	calculated value

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as this efficiency is influenced by further factors such as heat losses in the distribution system and the dimensioning of the products in relation to the building size and characteristics.

Product fiche

Group: Space and combination heaters
Section: Combination heaters
Reference: CDR 811/2013, Annex IV, point 5, fig. 5

Date: 3-9-2015

Supliers name or trademark:

ATAG

Suppliers model identifier:

Brand: ATAG
Type: Qsolar
Model: Q38SC-200-5,0

Water heating efficiency of combination heater (data from fiche)

Declared load profile: XL

ηwh('I'): 80,0 % (1)

Solar contribution (data from fiche)

(1,1 x 'I' 80,0 - 10) x 'II' 1,764 - 'III' 0,008 - 'I' 80,0 = + 57,6 % (2)

+

Water heating energy efficiency of package (average climate)

$\eta_{wh,pa}$ %: 137,6 % (3)

Water heating energy efficiency class of package

	G	F	E	D	C	B	A	A+	A++	A+++
☐ M	<27%	≥ 27%	≥ 30%	≥ 33%	≥ 36%	≥ 39%	≥ 65%	≥ 100%	≥ 130%	≥ 163%
☐ L	<27%	≥ 27%	≥ 30%	≥ 34%	≥ 37%	≥ 50%	≥ 75%	≥ 115%	≥ 150%	≥ 188%
☒ XL	<27%	≥ 27%	≥ 30%	≥ 35%	≥ 38%	≥ 55%	≥ 80%	≥ 123%	≥ 160%	≥ 200%
☐ XXL	<28%	≥ 28%	≥ 32%	≥ 36%	≥ 40%	≥ 60%	≥ 85%	≥ 131%	≥ 170%	≥ 213%

Water heating energy efficiency under colder and warmer climate conditions

Colder: 137,6 (3) - 0,2 x 57,6 (2) = 126,1 %

Warmer: 137,6 (3) + 0,4 x 57,6 (2) = 160,7 %

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as this efficiency is influenced by further factors such as heat losses in the distribution system and the

Informative section

η_{sys} ('I'): Water heating energy efficiency

'II': $(220xQ_{ref})/Q_{nonsol}$

III' = $(Q_{aux}x2,5)/(220xQ_{ref})$

Annex VII, table 15

Load profile:	Q_{ref} kWh
M	5,845
L	11,655
XL	19,070
XXL	24,530

Q_{nonsol} = 2378,491 kWh
Q_{aux} = 14 kWh

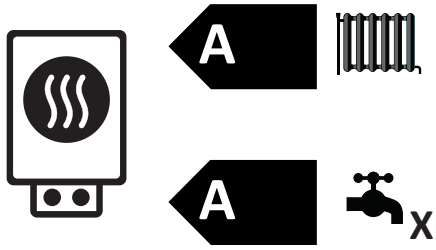
	enter a value
	select value
Red	auto filled in
	calculated value

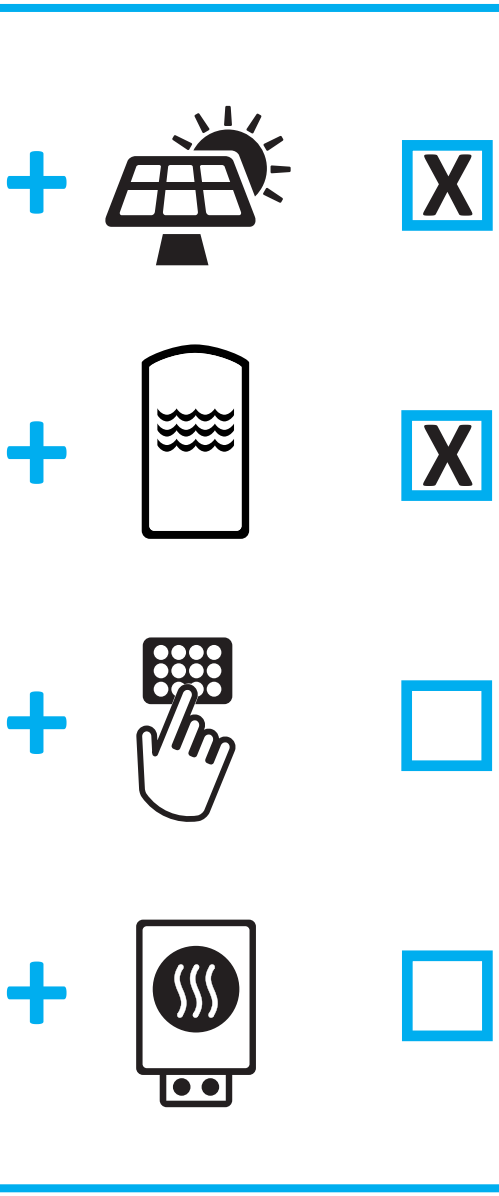
ENERG Y IJA IE IA

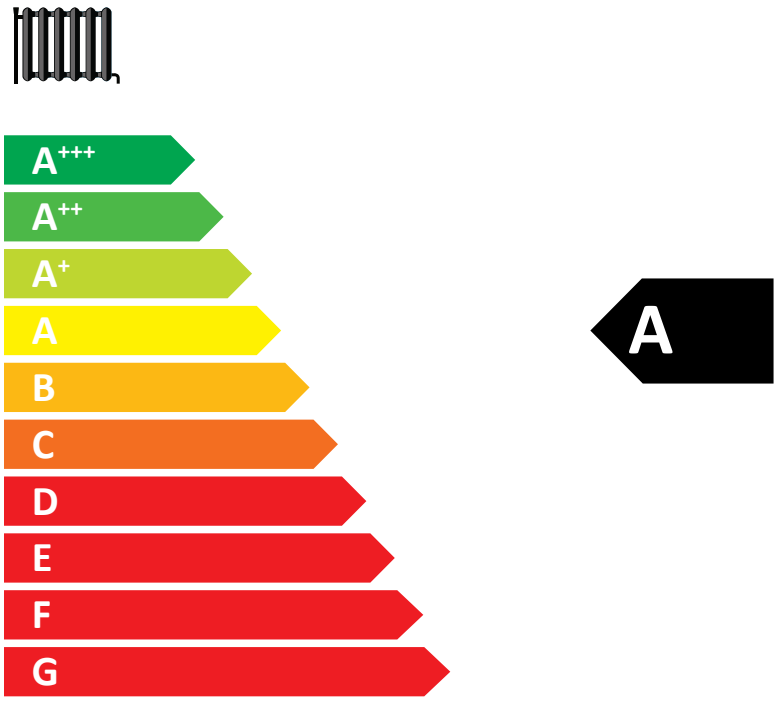
енергия · ενεργεια

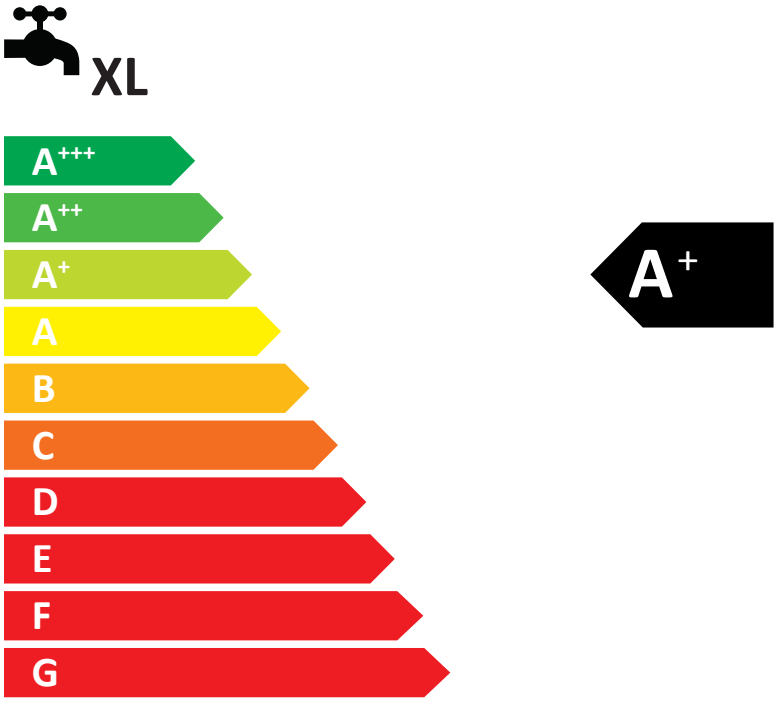
ATAG

ZonneGasCombiQ
Q38SC380/5,0m²









2015

811/2013

Product fiche

Group: Space and combination heaters
Section: Preferential boiler or combi
Reference: CDR 811/2013, Annex IV, point 5, fig

Date: 3-9-2015

Suppliers model identifier:

Brand:	ATAG
Type:	Qsolar
Model:	Q38SC-380-5,0m²

Informative section

η_{sys} ('I'): Seasonal space heating energy efficiency
'III': 294/(11x$Prated_{pref}$)
IV' = 115/(11x$Prated_{pref}$)
Collector efficiency at:
40 K and 1 000 W/m2

[X] Preferential boiler (data from fiche)

$Prated_{pref}$ ⑩ = 33 kW η_{ssh}('I'): 92,6 % (1)

[ ] Temperature control (data from fiche)

Class ⑪: n.a. ⇨ + 0,0 % (2)

[ ] Supplementary boiler (data from fiche)

η_{ssh} in %: (n.a. - 'I' 92,6) x 0,1 = ± 0,0 % (3)

[X] Solar contribution (data from fiche)

Collector size in m²: 'III': 0,80 x 4,56 + Tank volume in m³: 'IV' 0,31 x 0,37) x Collector efficiency in %: 0,9 x 67,0 /100 x Tank rating ⑭: D ⑮ 0,81 = + 1,8 % (4)

[ ] Supplementary heat pump (data from fiche)

$Prated_{sup}$ ⑫ = n.a kW
Storage applied ⑬: n.a.
η_{ssh} in %: (n.a. - 'I' 92,6) x 'II' n.a. = + 0,0 % (5)

Solar contribution AND supplementary heat pump
Select smaller value: 0,5 x (4) 1,8 OR 0,5 x (5) 0,0 - 0,0 % (6)
+

Seasonal space heating energy efficiency of package: $\eta_{ssh,pa}$ %: 94,4 % (7)

Seasonal space heating energy efficiency class of package

G	F	E	D	C	B	A	A+	A++	A+++
<30%	≥ 30%	≥ 34%	≥ 36%	≥ 75%	≥ 82%	≥ 90%	≥ 98%	≥ 125%	≥ 150%

Boiler & supplementary heat pump installed with low temperature heat emitters at 35 oC? No

(7) 94,4 + (50 x 'II' n.a.) = 94,4

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as this efficiency is influenced by further factors such as heat losses in the distribution system and the dimensioning of the products in relation to the building size and characteristics.

Temp. control

⑪	(2)
I	1,0
II	2,0
III	1,5
IV	2,0
V	3,0
VI	4,0
VII	3,5
VIII	5,0

'II' *(Annex IV, table 5)*

⑫	⑬=No	⑬=Yes
⑩+⑫	'II'	'II'
0,0	0,00	0,00
0,1	0,30	0,37
0,2	0,55	0,70
0,3	0,75	0,85
0,4	0,85	0,94
0,5	0,95	0,98
0,6	0,98	1,00
0,7	1,00	1,00

Heat storage tank

⑭	⑮
A+	0,95
A	0,91
B	0,86
C	0,83
D	0,81
E	0,81
F	0,81
G	0,81

enter a value
select value
Red auto filled in
calculated value

Product fiche

Group: Space and combination heaters
Section: Combination heaters
Reference: CDR 811/2013, Annex IV, point 5, fig. 5

Date: 3-9-2015

Supliers name or trademark:

ATAG

Suppliers model identifier:

Brand: ATAG
Type: Qsolar
Model: Q38SC-380-5,0

Informative section

η_{sys} ('I'): Water heating energy efficiency
'II': $(220 \times Q_{ref})/Q_{nonsol}$
III' = $(Q_{aux} \times 2{,}5)/(220 \times Q_{ref})$

Annex VII, table 15

Load profile:	Q_{ref} kWh
M	5,845
L	11,655
XL	19,070
XXL	24,530

Q_{nonsol} = 2379,497 kWh
Q_{aux} = 14 kWh

Water heating efficiency of combination heater (data from fiche)

Declared load profile: XL — ηwh('I'): 80,0 % (1)

Solar contribution (data from fiche)

(1,1 x 'I' 80,0 - 10) x 'II' 1,763 - 'III' 0,008 - 'I' 80,0 = + 57,5 % (2)

\+

Water heating energy efficiency of package (average climate)

$\eta_{wh,pa}$ %: 137,6 % (3)

Water heating energy efficiency class of package

	G	F	E	D	C	B	A	A+	A++	A+++
☐ M	<27%	≥ 27%	≥ 30%	≥ 33%	≥ 36%	≥ 39%	≥ 65%	≥ 100%	≥ 130%	≥ 163%
☐ L	<27%	≥ 27%	≥ 30%	≥ 34%	≥ 37%	≥ 50%	≥ 75%	≥ 115%	≥ 150%	≥ 188%
☒ XL	<27%	≥ 27%	≥ 30%	≥ 35%	≥ 38%	≥ 55%	≥ 80%	≥ 123%	≥ 160%	≥ 200%
☐ XXL	<28%	≥ 28%	≥ 32%	≥ 36%	≥ 40%	≥ 60%	≥ 85%	≥ 131%	≥ 170%	≥ 213%

Water heating energy efficiency under colder and warmer climate conditions

Colder: 137,6 (3) - 0,2 x 57,5 (2) = 126,1 %

Warmer: 137,6 (3) + 0,4 x 57,5 (2) = 160,6 %

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as this efficiency is influenced by further factors such as heat losses in the distribution system and the

	enter a value
	select value
Red	auto filled in
	calculated value

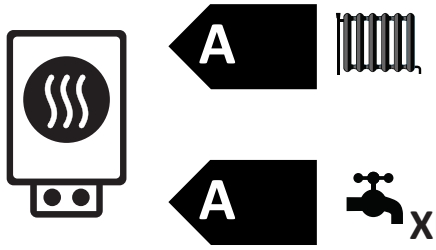
ENERG Y IJA IE IA

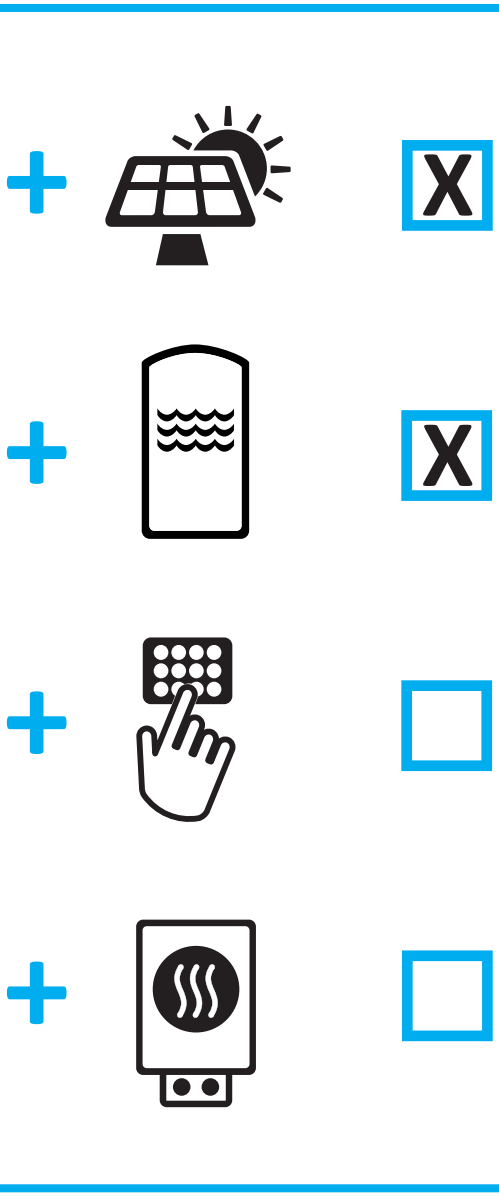
енергия · ενεργεια

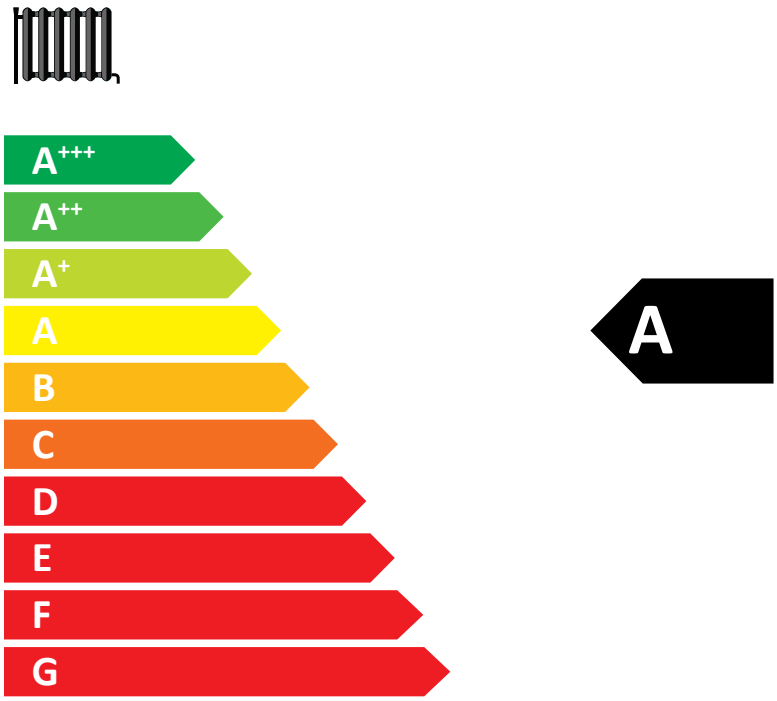
ATAG

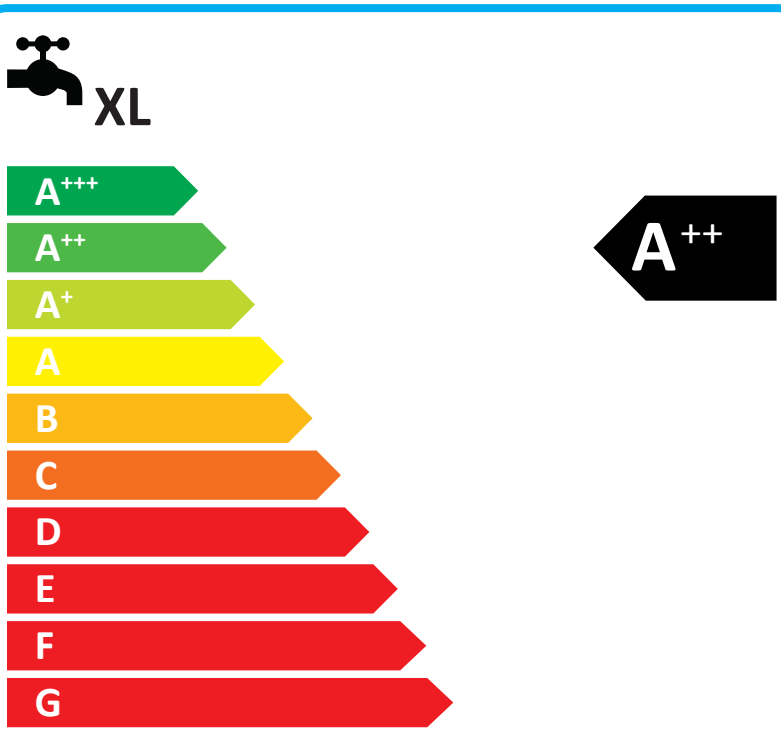
ZonneGasCombiQ

Q25SC200/7,5m²









2015

811/2013

Product fiche

Group: Space and combination heaters
Section: Preferential boiler or combi
Reference: CDR 811/2013, Annex IV, point 5, fig

Date: 3-9-2015

Suppliers model identifier:

Brand:	ATAG
Type:	Qsolar
Model:	Q25SC-200-7,5m²

Informative section

η_{sys} ('I'): Seasonal space heating energy efficiency
'III': 294/(11x$Prated_{pref}$)
IV' = 115/(11x$Prated_{pref}$)
Collector efficiency at: 40 K and 1 000 W/m2

[X] Preferential boiler (data from fiche)

$Prated_{pref}$ ⑩ = 22 kW — η_{ssh}('I'): 92,5 % (1)

[ ] Temperature control (data from fiche)

Class ⑪: n.a. ⇨ + 0,0 % (2)

[ ] Supplementary boiler (data from fiche)

η_{ssh} in %: (n.a. - 'I' 92,5) x 0,1 = ± 0,0 % (3)

[X] Solar contribution (data from fiche)

Collector size in m²: 'III': 1,22 x 6,84 + Tank volume in m³: 'IV' 0,48 x 0,191) x 0,9 x Collector efficiency in %: 67,0 /100 x Tank rating ⑭: C ⑮ 0,83 = + 4,2 % (4)

[ ] Supplementary heat pump (data from fiche)

$Prated_{sup}$ ⑫ = n.a kW
Storage applied ⑬: n.a.
η_{ssh} in %: (n.a. - 'I' 92,5) x 'II' n.a. = + 0,0 % (5)

Solar contribution AND supplementary heat pump
Select smaller value: 0,5 x (4) 4,2 OR 0,5 x (5) 0,0 - 0,0 % (6) +

Seasonal space heating energy efficiency of package: $\eta_{ssh,pa}$ %: 96,7 % (7)

Seasonal space heating energy efficiency class of package

G	F	E	D	C	B	A	A+	A++	A+++
<30%	≥ 30%	≥ 34%	≥ 36%	≥ 75%	≥ 82%	≥ 90%	≥ 98%	≥ 125%	≥ 150%

Boiler & supplementary heat pump installed with low temperature heat emitters at 35 oC? No

(7) 96,7 + (50 x 'II' n.a.) = 96,7

'II' *(Annex IV, table 5)*

⑫ ⑩+⑫	⑬=No 'II'	⑬=Yes 'II'
0,0	0,00	0,00
0,1	0,30	0,37
0,2	0,55	0,70
0,3	0,75	0,85
0,4	0,85	0,94
0,5	0,95	0,98
0,6	0,98	1,00
0,7	1,00	1,00

Temp. control

⑪	(2)
I	1,0
II	2,0
III	1,5
IV	2,0
V	3,0
VI	4,0
VII	3,5
VIII	5,0

Heat storage tank

⑭	⑮
A+	0,95
A	0,91
B	0,86
C	0,83
D	0,81
E	0,81
F	0,81
G	0,81

	enter a value
	select value
Red	auto filled in
	calculated value

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as this efficiency is influenced by further factors such as heat losses in the distribution system and the dimensioning of the products in relation to the building size and characteristics.

Product fiche

Group: Space and combination heaters
Section: Combination heaters
Reference: CDR 811/2013, Annex IV, point 5, fig. 5

Date: 3-9-2015

Supliers name or trademark:

ATAG

Suppliers model identifier:

Brand: ATAG
Type: Qsolar
Model: Q25SC-200-7,5

Water heating efficiency of combination heater (data from fiche)

Declared load profile: XL

ηwh('I'): 80,0 % (1)

Solar contribution (data from fiche)

	'I'		'II'		'III'		'I'		
(1,1 x	80,0	-	10) x	2,226	-	0,012	-	80,0	= + 93,7 % (2)

+

Water heating energy efficiency of package (average climate)

$\eta_{wh,pa}$ %: 173,7 % (3)

Water heating energy efficiency class of package

	G	F	E	D	C	B	A	A+	A++	A+++
☐ M	<27%	≥ 27%	≥ 30%	≥ 33%	≥ 36%	≥ 39%	≥ 65%	≥ 100%	≥ 130%	≥ 163%
☐ L	<27%	≥ 27%	≥ 30%	≥ 34%	≥ 37%	≥ 50%	≥ 75%	≥ 115%	≥ 150%	≥ 188%
☒ XL	<27%	≥ 27%	≥ 30%	≥ 35%	≥ 38%	≥ 55%	≥ 80%	≥ 123%	≥ 160%	≥ 200%
☐ XXL	<28%	≥ 28%	≥ 32%	≥ 36%	≥ 40%	≥ 60%	≥ 85%	≥ 131%	≥ 170%	≥ 213%

Water heating energy efficiency under colder and warmer climate conditions

Colder:	173,7 (3)	-	0,2	x	93,7 (2)	=	154,9 %
Warmer:	173,7 (3)	+	0,4	x	93,7 (2)	=	211,1 %

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as this efficiency is influenced by further factors such as heat losses in the distribution system and the

Informative section

η_{sys} ('I'): Water heating energy efficiency

'II': $(220 \times Q_{ref})/Q_{nonsol}$

III' = $(Q_{aux} \times 2,5)/(220 \times Q_{ref})$

Annex VII, table 15

Load profile:	Q_{ref} kWh
M	5,845
L	11,655
XL	19,070
XXL	24,530

Q_{nonsol} = 1884,675 kWh
Q_{aux} = 21 kWh

	enter a value
	select value
Red	auto filled in
	calculated value

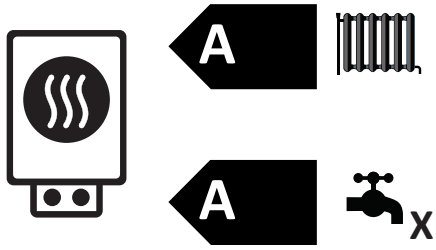
ENERG Y IJA IE IA

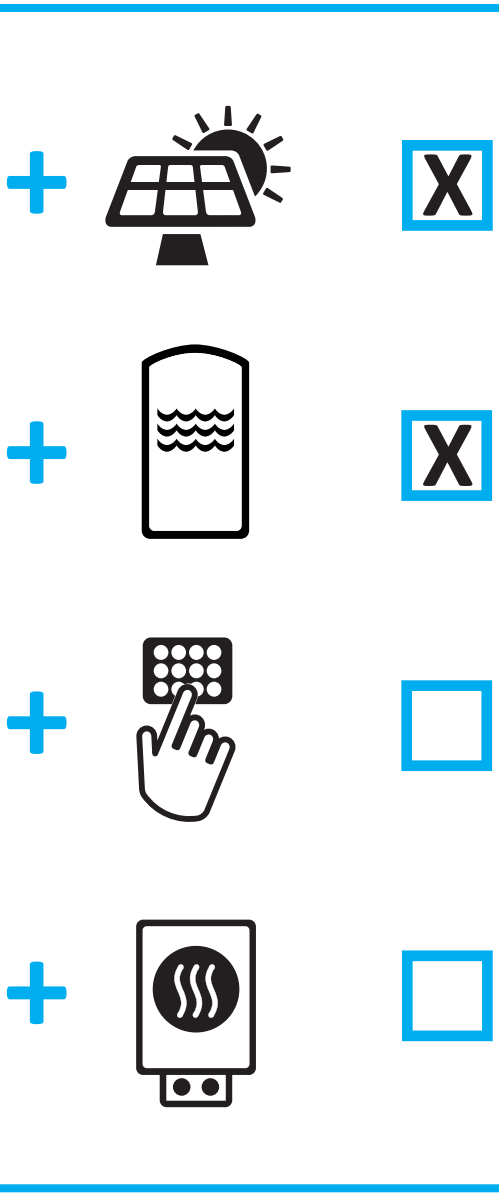
енергия · ενεργεια

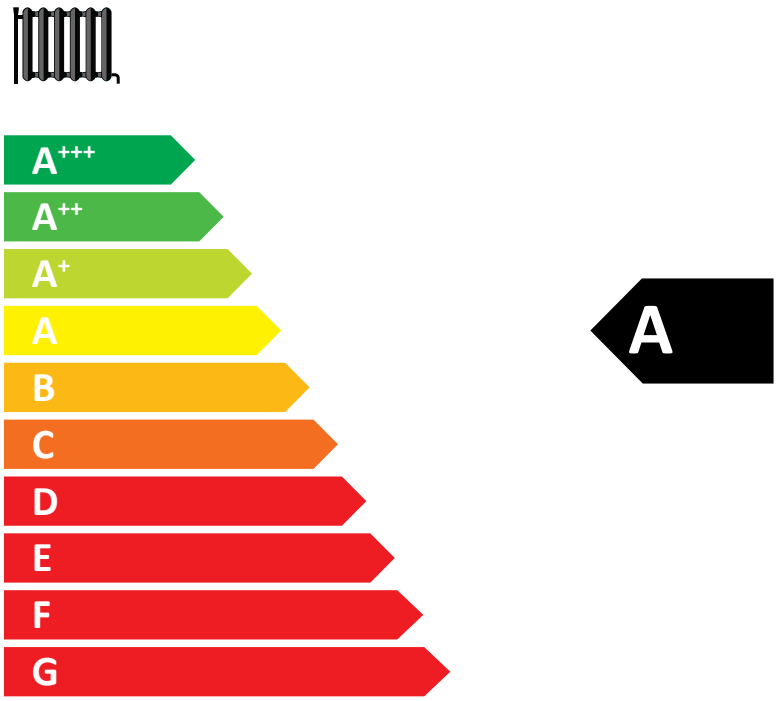
ATAG

ZonneGasCombiQ

Q38SC200/7,5m²







2015

811/2013

Product fiche

Group: Space and combination heaters
Section: Preferential boiler or combi
Reference: CDR 811/2013, Annex IV, point 5, fig

Date: 3-9-2015

Suppliers model identifier:

Brand:	ATAG
Type:	Qsolar
Model:	Q38SC-200-7,5m²

Informative section

η_{sys} ('I'): Seasonal space heating energy efficiency
'III': 294/(11x$Prated_{pref}$)
IV' = 115/(11x$Prated_{pref}$)
Collector efficiency at: 40 K and 1 000 W/m2

[X] Preferential boiler (data from fiche)

$Prated_{pref}$ ⑩ = 33 kW η_{ssh}('I'): 92,6 % (1)

[ ] Temperature control (data from fiche)

Class ⑪: n.a. ⇨ + 0,0 % (2)

[ ] Supplementary boiler (data from fiche)

η_{ssh} in %: (n.a. - 'I' 92,6) x 0,1 = ± 0,0 % (3)

[X] Solar contribution (data from fiche)

Collector size in m²: 'III': 0,80 x 6,84 + Tank volume in m³: 'IV' 0,31 x 0,191) x 0,9 x Collector efficiency in %: 67,0 /100 x Tank rating ⑭: C ⑮ 0,83 = + 2,8 % (4)

[ ] Supplementary heat pump (data from fiche)

$Prated_{sup}$ ⑫ = n.a kW
Storage applied ⑬: n.a.
η_{ssh} in %: (n.a. - 'I' 92,6) x 'II' n.a. = + 0,0 % (5)

Solar contribution AND supplementary heat pump
Select smaller value: 0,5 x (4) 2,8 OR 0,5 x (5) 0,0 - 0,0 % (6)
+

Seasonal space heating energy efficiency of package: $\eta_{ssh,pa}$ %: 95,4 % (7)

Seasonal space heating energy efficiency class of package

G	F	E	D	C	B	A	A+	A++	A+++
<30%	≥ 30%	≥ 34%	≥ 36%	≥ 75%	≥ 82%	≥ 90%	≥ 98%	≥ 125%	≥ 150%

Boiler & supplementary heat pump installed with low temperature heat emitters at 35 oC? No

(7) 95,4 + (50 x 'II' n.a.) = 95,4

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as this efficiency is influenced by further factors such as heat losses in the distribution system and the dimensioning of the products in relation to the building size and characteristics.

Temp. control

⑪	(2)
I	1,0
II	2,0
III	1,5
IV	2,0
V	3,0
VI	4,0
VII	3,5
VIII	5,0

'II' *(Annex IV, table 5)*

⑫	⑬=No	⑬=Yes
⑩+⑫	'II'	'II'
0,0	0,00	0,00
0,1	0,30	0,37
0,2	0,55	0,70
0,3	0,75	0,85
0,4	0,85	0,94
0,5	0,95	0,98
0,6	0,98	1,00
0,7	1,00	1,00

Heat storage tank

⑭	⑮
A+	0,95
A	0,91
B	0,86
C	0,83
D	0,81
E	0,81
F	0,81
G	0,81

enter a value
select value
Red auto filled in
calculated value

Product fiche

Group: Space and combination heaters
Section: Combination heaters
Reference: CDR 811/2013, Annex IV, point 5, fig. 5

Date: 3-9-2015

Supliers name or trademark:

ATAG

Suppliers model identifier:

Brand: ATAG
Type: Qsolar
Model: Q38SC-200-7,5

Water heating efficiency of combination heater (data from fiche)

Declared load profile: XL

ηwh('I'): 80,0 % (1)

Solar contribution (data from fiche)

	'I'		'II'		'III'		'I'		
(1,1 x	80,0	-	10) x	2,226	-	0,012	-	80,0	= + 93,7 % (2)

+

Water heating energy efficiency of package (average climate)

$\eta_{wh,pa}$ %: 173,7 % (3)

Water heating energy efficiency class of package

	G	F	E	D	C	B	A	A+	A++	A+++
☐ M	<27%	≥ 27%	≥ 30%	≥ 33%	≥ 36%	≥ 39%	≥ 65%	≥ 100%	≥ 130%	≥ 163%
☐ L	<27%	≥ 27%	≥ 30%	≥ 34%	≥ 37%	≥ 50%	≥ 75%	≥ 115%	≥ 150%	≥ 188%
☒ XL	<27%	≥ 27%	≥ 30%	≥ 35%	≥ 38%	≥ 55%	≥ 80%	≥ 123%	≥ 160%	≥ 200%
☐ XXL	<28%	≥ 28%	≥ 32%	≥ 36%	≥ 40%	≥ 60%	≥ 85%	≥ 131%	≥ 170%	≥ 213%

Water heating energy efficiency under colder and warmer climate conditions

Colder:	173,7 (3)	-	0,2	x	93,7 (2)	=	154,9 %
Warmer:	173,7 (3)	+	0,4	x	93,7 (2)	=	211,1 %

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as this efficiency is influenced by further factors such as heat losses in the distribution system and the

Informative section

η_{sys} ('I'): Water heating energy efficiency

'II': $(220 \times Q_{ref})/Q_{nonsol}$

III' = $(Q_{aux} \times 2,5)/(220 \times Q_{ref})$

Annex VII, table 15

Load profile:	Q_{ref} kWh
M	5,845
L	11,655
XL	19,070
XXL	24,530

Q_{nonsol} = 1884,675 kWh
Q_{aux} = 21 kWh

	enter a value
	select value
Red	auto filled in
	calculated value

ENERG Y IJA IE IA

енергия · ενεργεια

ATAG

ZonneGasCombiQ

Q25SC380/7,5m²

A

A XL

+ X

+ X

+ ☐

+ ☐

A+++
A++
A+
A
B
C
D
E
F
G

A

XL

A+++
A++
A+
A
B
C
D
E
F
G

A++

2015

811/2013

Product fiche

Group: Space and combination heaters
Section: Preferential boiler or combi
Reference: CDR 811/2013, Annex IV, point 5, fig

Date: 3-9-2015

Suppliers model identifier:

Brand:	ATAG
Type:	Qsolar
Model:	Q25SC-380-7,5m²

Informative section

η_{sys} ('I'): Seasonal space heating energy efficiency
'III': 294/(11x$Prated_{pref}$)
IV' = 115/(11x$Prated_{pref}$)
Collector efficiency at:
40 K and 1 000 W/m2

[X] Preferential boiler (data from fiche)

$Prated_{pref}$ ⑩ = 22 kW η_{ssh}('I'): 92,5 % (1)

[ ] Temperature control (data from fiche)

Class ⑪: n.a. ⇨ + 0,0 % (2)

[ ] Supplementary boiler (data from fiche)

η_{ssh} in %: (n.a. - 'I' 92,5) x 0,1 = ± 0,0 % (3)

[X] Solar contribution (data from fiche)

Collector size in m²: 'III': 1,22 x 6,84 + Tank volume in m³: 'IV' 0,48 x 0,37) x Collector efficiency in %: 0,9 x 67,0 /100 x Tank rating ⑭: D ⑮ 0,81 = + 4,2 % (4)

[ ] Supplementary heat pump (data from fiche)

$Prated_{sup}$ ⑫ = n.a kW
Storage applied ⑬: n.a.
η_{ssh} in %: (n.a. - 'I' 92,5) x 'II' n.a. = + 0,0 % (5)

Solar contribution AND supplementary heat pump
Select smaller value: 0,5 x (4) 4,2 OR 0,5 x (5) 0,0 - 0,0 % (6)
+

Seasonal space heating energy efficiency of package: $\eta_{ssh,pa}$ %: 96,7 % (7)

Seasonal space heating energy efficiency class of package

G	F	E	D	C	B	A	A+	A++	A+++
<30%	≥ 30%	≥ 34%	≥ 36%	≥ 75%	≥ 82%	≥ 90%	≥ 98%	≥ 125%	≥ 150%

Boiler & supplementary heat pump installed with low temperature heat emitters at 35 oC? No

(7) 96,7 + (50 x 'II' n.a.) = 96,7

'II' *(Annex IV, table 5)*

⑫ ⑩+⑫	⑬=No 'II'	⑬=Yes 'II'
0,0	0,00	0,00
0,1	0,30	0,37
0,2	0,55	0,70
0,3	0,75	0,85
0,4	0,85	0,94
0,5	0,95	0,98
0,6	0,98	1,00
0,7	1,00	1,00

Temp. control

⑪	(2)
I	1,0
II	2,0
III	1,5
IV	2,0
V	3,0
VI	4,0
VII	3,5
VIII	5,0

Heat storage tank

⑭	⑮
A+	0,95
A	0,91
B	0,86
C	0,83
D	0,81
E	0,81
F	0,81
G	0,81

	enter a value
	select value
Red	auto filled in
	calculated value

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as this efficiency is influenced by further factors such as heat losses in the distribution system and the dimensioning of the products in relation to the building size and characteristics.

Product fiche

Group: Space and combination heaters
Section: Combination heaters
Reference: CDR 811/2013, Annex IV, point 5, fig. 5

Date: 3-9-2015

Supliers name or trademark:

ATAG

Suppliers model identifier:

Brand: ATAG
Type: Qsolar
Model: Q25SC-380-7,5

Water heating efficiency of combination heater (data from fiche)

Declared load profile: XL

ηwh('I'): 80,0 % (1)

Solar contribution (data from fiche)

(1,1 x 'I' 80,0 - 10) x 'II' 2,24 - 'III' 0,012 - 'I' 80,0 = + 94,7 % (2)

+

Water heating energy efficiency of package (average climate)

$\eta_{wh,pa}$ %: 174,7 % (3)

Water heating energy efficiency class of package

	G	F	E	D	C	B	A	A+	A++	A+++
☐	M	<27%	≥ 27%	≥ 30%	≥ 33%	≥ 36%	≥ 39%	≥ 65%	≥ 100%	≥ 130%	≥ 163%
☐	L	<27%	≥ 27%	≥ 30%	≥ 34%	≥ 37%	≥ 50%	≥ 75%	≥ 115%	≥ 150%	≥ 188%
☒	XL	<27%	≥ 27%	≥ 30%	≥ 35%	≥ 38%	≥ 55%	≥ 80%	≥ 123%	≥ 160%	≥ 200%
☐	XXL	<28%	≥ 28%	≥ 32%	≥ 36%	≥ 40%	≥ 60%	≥ 85%	≥ 131%	≥ 170%	≥ 213%

Water heating energy efficiency under colder and warmer climate conditions

Colder: 174,7 (3) - 0,2 x 94,7 (2) = 155,8 %

Warmer: 174,7 (3) + 0,4 x 94,7 (2) = 212,6 %

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as this efficiency is influenced by further factors such as heat losses in the distribution system and the

Informative section

η_{sys} ('I'): Water heating energy efficiency

'II': $(220 \times Q_{ref})/Q_{nonsol}$

III' = $(Q_{aux} \times 2,5)/(220 \times Q_{ref})$

Annex VII, table 15

Load profile:	Q_{ref} kWh
M	5,845
L	11,655
XL	19,070
XXL	24,530

Q_{nonsol} = 1873,332 kWh
Q_{aux} = 21 kWh

	enter a value
	select value
Red	auto filled in
	calculated value

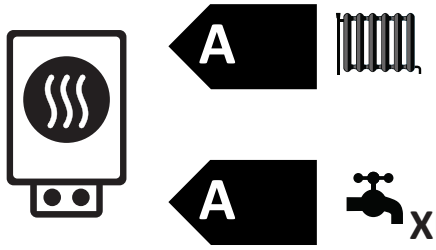
ENERG Y IJA IE IA

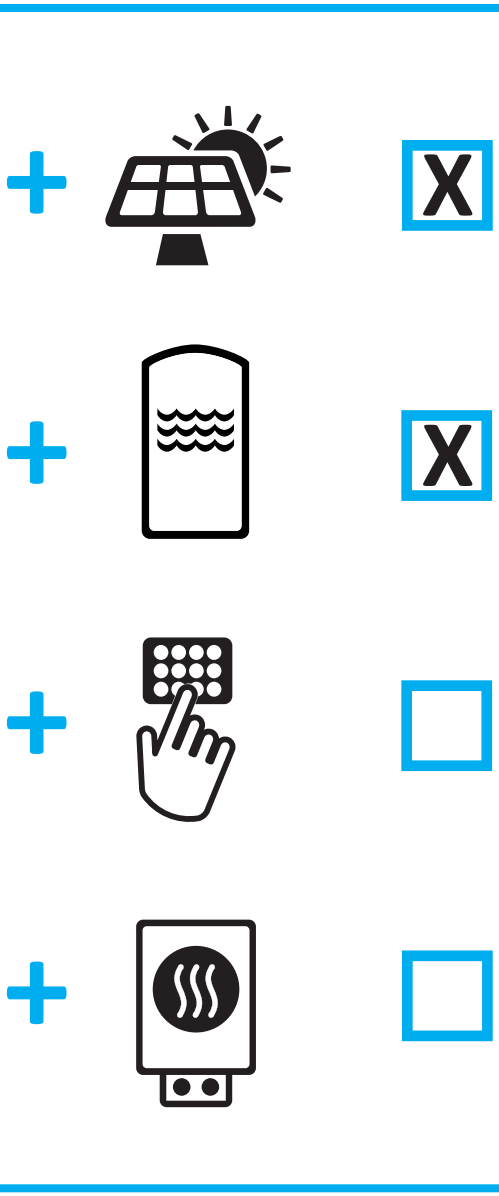
енергия · ενεργεια

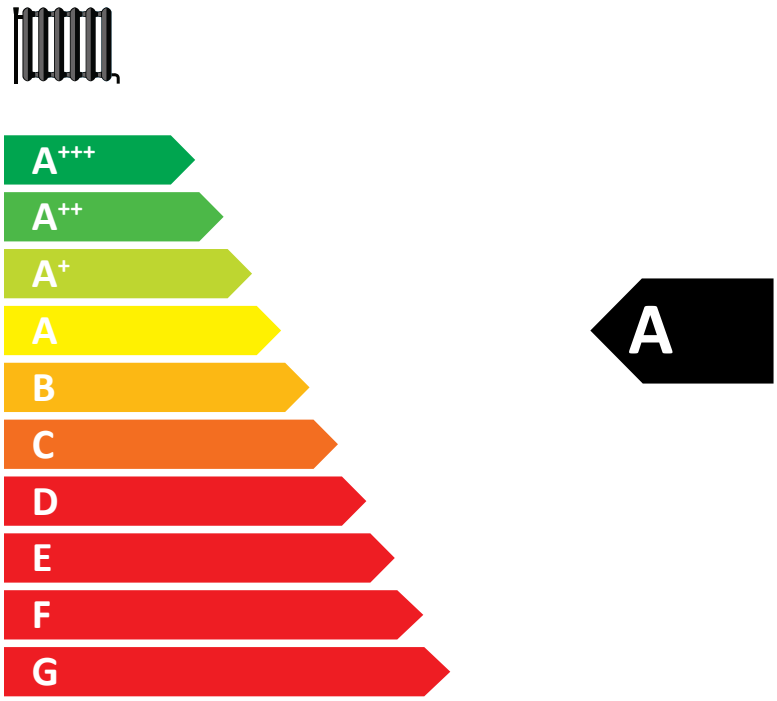
ATAG

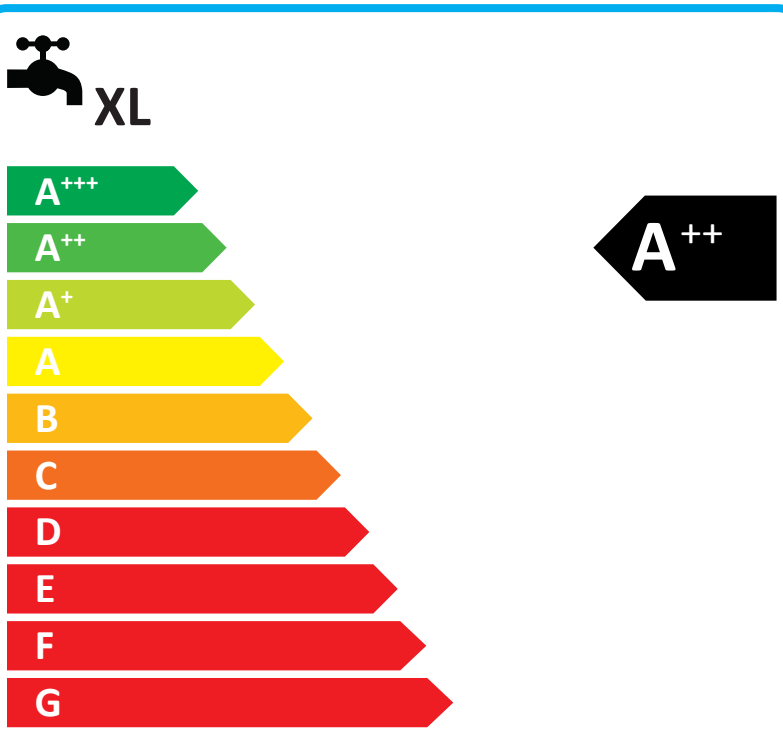
ZonneGasCombiQ

Q38SC380/7,5m²









2015

811/2013

Product fiche

Group: Space and combination heaters
Section: Preferential boiler or combi
Reference: CDR 811/2013, Annex IV, point 5, fig

Date: 3-9-2015

Suppliers model identifier:

Brand:	ATAG
Type:	Qsolar
Model:	Q38SC-380-7,5m²

Informative section

η_{sys} ('I'): Seasonal space heating energy efficiency
'III': 294/(11x$Prated_{pref}$)
IV' = 115/(11x$Prated_{pref}$)
Collector efficiency at: 40 K and 1 000 W/m2

[X] Preferential boiler (data from fiche)

$Prated_{pref}$ ⑩ = 33 kW — η_{ssh}('I'): 92,6 % (1)

[ ] Temperature control (data from fiche)

Class ⑪: n.a. ⇨ + 0,0 % (2)

[ ] Supplementary boiler (data from fiche)

η_{ssh} in %: (n.a. - 'I' 92,6) x 0,1 = ± 0,0 % (3)

[X] Solar contribution (data from fiche)

Collector size in m²: 'III': 0,80 x 6,84 + Tank volume in m³: 'IV' 0,31 x 0,37) x Collector efficiency in %: 0,9 x 67,0 /100 x Tank rating ⑭: D ⑮ 0,81 = + 2,7 % (4)

[ ] Supplementary heat pump (data from fiche)

$Prated_{sup}$ ⑫ = n.a kW
Storage applied ⑬: n.a.
η_{ssh} in %: (n.a. - 'I' 92,6) x 'II' n.a. = + 0,0 % (5)

Solar contribution AND supplementary heat pump
Select smaller value: 0,5 x (4) 2,7 OR 0,5 x (5) 0,0 - 0,0 % (6)
+

Seasonal space heating energy efficiency of package: $\eta_{ssh,pa}$ %: 95,3 % (7)

Seasonal space heating energy efficiency class of package

G	F	E	D	C	B	A	A+	A++	A+++
<30%	≥ 30%	≥ 34%	≥ 36%	≥ 75%	≥ 82%	≥ 90%	≥ 98%	≥ 125%	≥ 150%

Boiler & supplementary heat pump installed with low temperature heat emitters at 35 oC? No

(7) 95,3 + (50 x 'II' n.a.) = 95,3

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as this efficiency is influenced by further factors such as heat losses in the distribution system and the dimensioning of the products in relation to the building size and characteristics.

Temp. control

⑪	(2)
I	1,0
II	2,0
III	1,5
IV	2,0
V	3,0
VI	4,0
VII	3,5
VIII	5,0

'II' *(Annex IV, table 5)*

⑫	⑬=No	⑬=Yes
⑩+⑫	'II'	'II'
0,0	0,00	0,00
0,1	0,30	0,37
0,2	0,55	0,70
0,3	0,75	0,85
0,4	0,85	0,94
0,5	0,95	0,98
0,6	0,98	1,00
0,7	1,00	1,00

Heat storage tank

⑭	⑮
A+	0,95
A	0,91
B	0,86
C	0,83
D	0,81
E	0,81
F	0,81
G	0,81

enter a value
select value
Red auto filled in
calculated value

Product fiche

Group: Space and combination heaters
Section: Combination heaters
Reference: CDR 811/2013, Annex IV, point 5, fig. 5

Date: 3-9-2015

Supliers name or trademark:

ATAG

Suppliers model identifier:

Brand: ATAG
Type: Qsolar
Model: Q38SC-380-7,5

Water heating efficiency of combination heater (data from fiche)

Declared load profile: XL

ηwh('I'): 80,0 % (1)

Solar contribution (data from fiche)

		'I'		'II'		'III'		'I'		
(	1,1 x	80,0	-	10) x	2,24	-	0,012	-	80,0	= + 94,7 % (2)

+

Water heating energy efficiency of package (average climate)

$\eta_{wh,pa}$ %: 174,7 % (3)

Water heating energy efficiency class of package

		G	F	E	D	C	B	A	A+	A++	A+++
☐	M	<27%	≥ 27%	≥ 30%	≥ 33%	≥ 36%	≥ 39%	≥ 65%	≥ 100%	≥ 130%	≥ 163%
☐	L	<27%	≥ 27%	≥ 30%	≥ 34%	≥ 37%	≥ 50%	≥ 75%	≥ 115%	≥ 150%	≥ 188%
☒	XL	<27%	≥ 27%	≥ 30%	≥ 35%	≥ 38%	≥ 55%	≥ 80%	≥ 123%	≥ 160%	≥ 200%
☐	XXL	<28%	≥ 28%	≥ 32%	≥ 36%	≥ 40%	≥ 60%	≥ 85%	≥ 131%	≥ 170%	≥ 213%

Water heating energy efficiency under colder and warmer climate conditions

Colder:	174,7 (3)	-	0,2	x	94,7 (2)	=	155,8 %
Warmer:	174,7 (3)	+	0,4	x	94,7 (2)	=	212,6 %

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as this efficiency is influenced by further factors such as heat losses in the distribution system and the

Informative section

η_{sys} ('I'): Water heating energy efficiency

'II': $(220 \times Q_{ref})/Q_{nonsol}$

III' = $(Q_{aux} \times 2,5)/(220 \times Q_{ref})$

Annex VII, table 15

Load profile:	Q_{ref} kWh
M	5,845
L	11,655
XL	19,070
XXL	24,530

Q_{nonsol} = 1873,332 kWh
Q_{aux} = 21 kWh

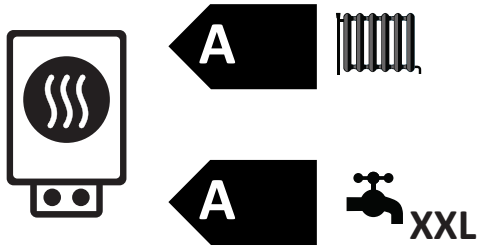
	enter a value
	select value
Red	auto filled in
	calculated value

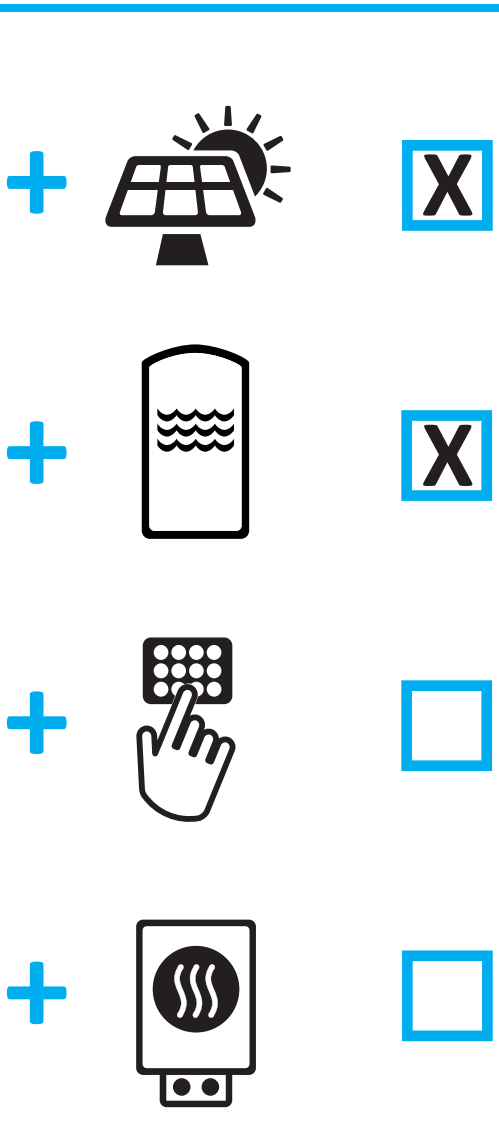
ENERG Y IJA IE IA

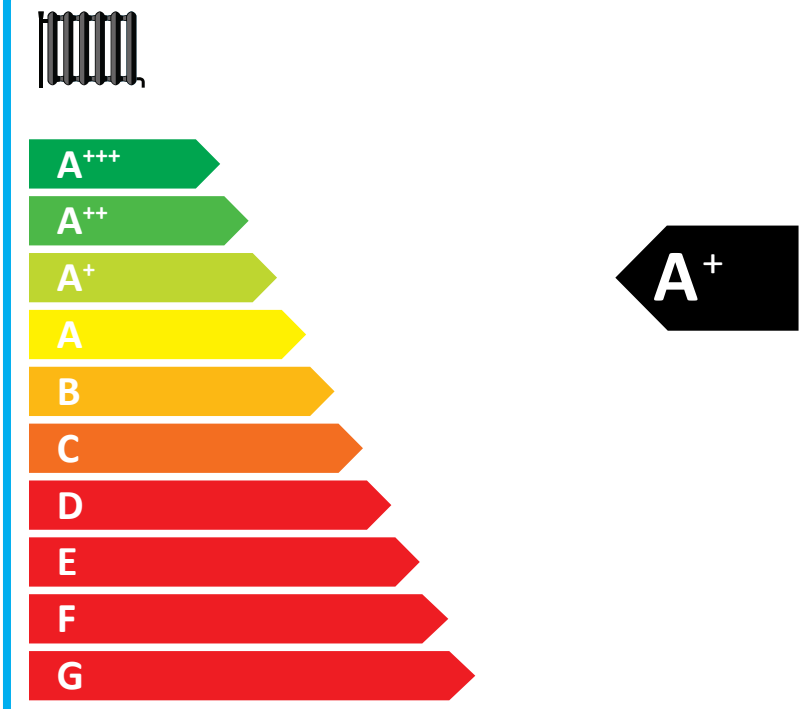
енергия · ενεργεια

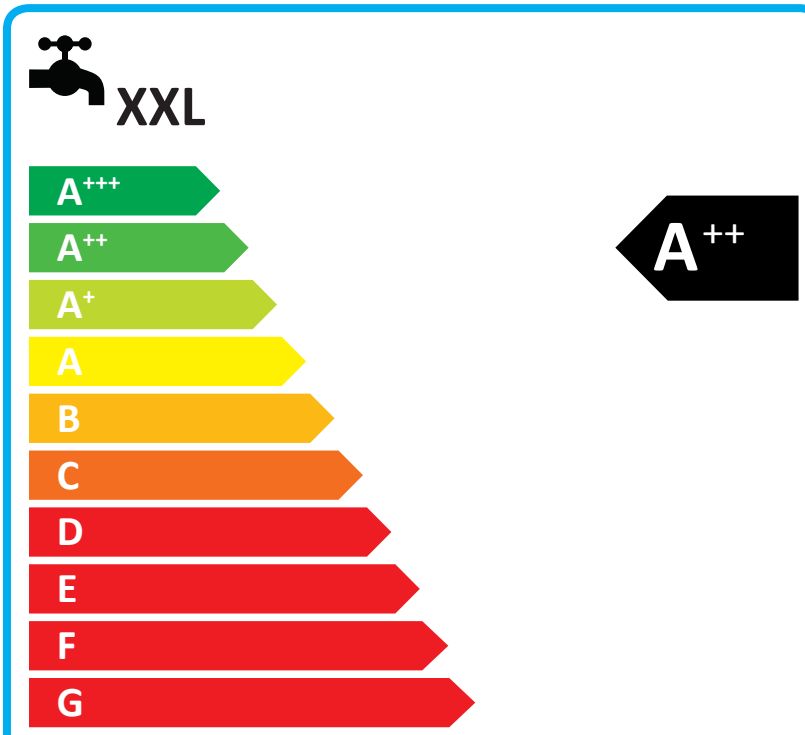
ATAG

ZonneGasCombiQ
Q25SC380/10m²









2015

811/2013

Product fiche

Group: Space and combination heaters
Section: Preferential boiler or combi
Reference: CDR 811/2013, Annex IV, point 5, fig

Date: 3-9-2015

Suppliers model identifier:

Brand:	ATAG
Type:	Qsolar
Model:	Q25SC-380-10m²

Informative section

η_{sys} ('I'): Seasonal space heating energy efficiency
'III': 294/(11x$Prated_{pref}$)
IV' = 115/(11x$Prated_{pref}$)
Collector efficiency at:
40 K and 1 000 W/m2

[X] Preferential boiler (data from fiche)

$Prated_{pref}$ ⑩ = 22 kW η_{ssh}('I'): 92,5 % (1)

[ ] Temperature control (data from fiche)

Class ⑪: n.a. ⇨ + 0,0 % (2)

[ ] Supplementary boiler (data from fiche)

η_{ssh} in %: (n.a. - 'I' 92,5) x 0,1 = ± 0,0 % (3)

[X] Solar contribution (data from fiche)

Collector size in m²: 'III': 1,22 x 9,12 + 'IV' 0,48 x Tank volume in m³: 0,37) x Collector efficiency in %: 0,9 x 67,0 /100 x Tank rating ⑭: D ⑮ 0,81 = + 4 5,5 %

[ ] Supplementary heat pump (data from fiche)

$Prated_{sup}$ ⑫ = n.a kW
Storage applied ⑬: n.a.
η_{ssh} in %: (n.a. - 'I' 92,5) x 'II' n.a. = + 5 0,0 %

Solar contribution AND supplementary heat pump
Select smaller value: 0,5 x 4 5,5 OR 0,5 x 5 0,0 - 6 0,0 % +

Seasonal space heating energy efficiency of package: $\eta_{ssh,pa}$ %: 7 98,0 %

Seasonal space heating energy efficiency class of package

G	F	E	D	C	B	A	A*	A**	A***
<30%	≥ 30%	≥ 34%	≥ 36%	≥ 75%	≥ 82%	≥ 90%	≥ 98%	≥ 125%	≥ 150%
							X		

Boiler & supplementary heat pump installed with low temperature heat emitters at 35 oC? No

7 98,0 + (50 x 'II' n.a.) = 98,0

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as this efficiency is influenced by further factors such as heat losses in the distribution system and the dimensioning of the products in relation to the building size and characteristics.

Temp. control

⑪	2
I	1,0
II	2,0
III	1,5
IV	2,0
V	3,0
VI	4,0
VII	3,5
VIII	5,0

'II' *(Annex IV, table 5)*

⑫ ⑩+⑫	⑬=No 'II'	⑬=Yes 'II'
0,0	0,00	0,00
0,1	0,30	0,37
0,2	0,55	0,70
0,3	0,75	0,85
0,4	0,85	0,94
0,5	0,95	0,98
0,6	0,98	1,00
0,7	1,00	1,00

Heat storage tank

⑭	⑮
A+	0,95
A	0,91
B	0,86
C	0,83
D	0,81
E	0,81
F	0,81
G	0,81

enter a value
select value
Red auto filled in
calculated value

Product fiche

Group: Space and combination heaters
Section: Combination heaters
Reference: CDR 811/2013, Annex IV, point 5, fig. 5

Date: 3-9-2015

Supliers name or trademark:

ATAG

Suppliers model identifier:

Brand: ATAG
Type: Qsolar
Model: Q25SC-380-10m²

Water heating efficiency of combination heater (data from fiche)

Declared load profile: XXL

ηwh('I'): 80,0 % (1)

Solar contribution (data from fiche)

	'I'		'II'		'III'		'I'		
(1,1 x	80,0	-	10) x	2,473	-	0,013	-	80,0	= + 112,9 % (2)

+

Water heating energy efficiency of package (average climate)

$\eta_{wh,pa}$ %: 192,9 % (3)

Water heating energy efficiency class of package

	G	F	E	D	C	B	A	A+	A++	A+++
☐ M	<27%	≥ 27%	≥ 30%	≥ 33%	≥ 36%	≥ 39%	≥ 65%	≥ 100%	≥ 130%	≥ 163%
☐ L	<27%	≥ 27%	≥ 30%	≥ 34%	≥ 37%	≥ 50%	≥ 75%	≥ 115%	≥ 150%	≥ 188%
☐ XL	<27%	≥ 27%	≥ 30%	≥ 35%	≥ 38%	≥ 55%	≥ 80%	≥ 123%	≥ 160%	≥ 200%
X XXL	<28%	≥ 28%	≥ 32%	≥ 36%	≥ 40%	≥ 60%	≥ 85%	≥ 131%	≥ 170%	≥ 213%

Water heating energy efficiency under colder and warmer climate conditions

Colder:	192,9 (3)	-	0,2	x	112,9 (2)	=	170,4 %
Warmer:	192,9 (3)	+	0,4	x	112,9 (2)	=	238,1 %

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as this efficiency is influenced by further factors such as heat losses in the distribution system and the

Informative section

η_{sys} ('I'): Water heating energy efficiency

'II': $(220 \times Q_{ref})/Q_{nonsol}$

III' = $(Q_{aux} \times 2,5)/(220 \times Q_{ref})$

Annex VII, table 15

Load profile:	Q_{ref} kWh
M	5,845
L	11,655
XL	19,070
XXL	24,530

Q_{nonsol} = 2182,29 kWh
Q_{aux} = 29 kWh

	enter a value
	select value
Red	auto filled in
	calculated value

ENERG Y IJA IE IA

енергия · ενεργεια

ATAG

ZonneGasCombiQ

Q38SC380/10m²

A

A XXL

+ X

+ X

+ ☐

+ ☐

A+++
A++
A+
A
B
C
D
E
F
G

A

XXL

A+++
A++
A+
A
B
C
D
E
F
G

A++

2015

811/2013

Product fiche

Group: Space and combination heaters
Section: Preferential boiler or combi
Reference: CDR 811/2013, Annex IV, point 5, fig

Date: 3-9-2015

Suppliers model identifier:

Brand:	ATAG
Type:	Qsolar
Model:	Q38SC-380-10m²

Informative section

η_{sys} ('I'): Seasonal space heating energy efficiency
'III': 294/(11x$Prated_{pref}$)
IV' = 115/(11x$Prated_{pref}$)
Collector efficiency at:
40 K and 1 000 W/m2

[X] Preferential boiler (data from fiche)

$Prated_{pref}$ ⑩ = 33 kW η_{ssh}('I'): 92,6 % → ①

[ ] Temperature control (data from fiche)

Class ⑪: n.a. → + 0,0 % → ②

[ ] Supplementary boiler (data from fiche)

η_{ssh} in %: (n.a. - 'I' 92,6) x 0,1 = ± 0,0 % → ③

[X] Solar contribution (data from fiche)

('III': 0,80 x 9,12 + 'IV' 0,31 x Tank volume in m^3: 0,37) x 0,9 x Collector efficiency in %: 67,0 /100 x Tank rating ⑭: D ⑮ 0,81 = + 4 3,6 %

[ ] Supplementary heat pump (data from fiche)

$Prated_{sup}$ ⑫ = n.a kW
Storage applied ⑬: n.a.
(η_{ssh} in %: n.a. - 'I' 92,6) x 'II' n.a. = + 5 0,0 %

Solar contribution AND supplementary heat pump
Select smaller value: 0,5 x 4 3,6 OR 0,5 x 5 0,0 - 6 0,0 % +

Seasonal space heating energy efficiency of package: $\eta_{ssh,pa}$ %: 7 96,2 %

Seasonal space heating energy efficiency class of package

G	F	E	D	C	B	A	A+	A++	A+++
<30%	≥ 30%	≥ 34%	≥ 36%	≥ 75%	≥ 82%	≥ 90%	≥ 98%	≥ 125%	≥ 150%
						X			

Boiler & supplementary heat pump installed with low temperature heat emitters at 35 oC? No

7 96,2 + (50 x 'II' n.a.) = 96,2

'II' *(Annex IV, table 5)*

⑫ ⑩+⑫	⑬=No 'II'	⑬=Yes 'II'
0,0	0,00	0,00
0,1	0,30	0,37
0,2	0,55	0,70
0,3	0,75	0,85
0,4	0,85	0,94
0,5	0,95	0,98
0,6	0,98	1,00
0,7	1,00	1,00

Temp. control

⑪	②
I	1,0
II	2,0
III	1,5
IV	2,0
V	3,0
VI	4,0
VII	3,5
VIII	5,0

Heat storage tank

⑭	⑮
A+	0,95
A	0,91
B	0,86
C	0,83
D	0,81
E	0,81
F	0,81
G	0,81

	enter a value
	select value
Red	auto filled in
	calculated value

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as this efficiency is influenced by further factors such as heat losses in the distribution system and the dimensioning of the products in relation to the building size and characteristics.

Product fiche

Group: Space and combination heaters
Section: Combination heaters
Reference: CDR 811/2013, Annex IV, point 5, fig. 5

Date: 3-9-2015

Supliers name or trademark:

ATAG

Suppliers model identifier:

Brand: ATAG
Type: Qsolar
Model: Q38SC-380-10m²

Water heating efficiency of combination heater (data from fiche)

Declared load profile: XXL

ηwh('I'): 80,0 % (1)

Solar contribution (data from fiche)

(1,1 x 'I' 80,0 - 10) x 'II' 2,473 - 'III' 0,013 - 'I' 80,0 = + 112,9 % (2)

+

Water heating energy efficiency of package (average climate)

$\eta_{wh,pa}$ %: 192,9 % (3)

Water heating energy efficiency class of package

	G	F	E	D	C	B	A	A+	A++	A+++
☐	M	<27%	≥ 27%	≥ 30%	≥ 33%	≥ 36%	≥ 39%	≥ 65%	≥ 100%	≥ 130%	≥ 163%
☐	L	<27%	≥ 27%	≥ 30%	≥ 34%	≥ 37%	≥ 50%	≥ 75%	≥ 115%	≥ 150%	≥ 188%
☐	XL	<27%	≥ 27%	≥ 30%	≥ 35%	≥ 38%	≥ 55%	≥ 80%	≥ 123%	≥ 160%	≥ 200%
☒	XXL	<28%	≥ 28%	≥ 32%	≥ 36%	≥ 40%	≥ 60%	≥ 85%	≥ 131%	≥ 170%	≥ 213%

Water heating energy efficiency under colder and warmer climate conditions

Colder: 192,9 (3) - 0,2 x 112,9 (2) = 170,4 %

Warmer: 192,9 (3) + 0,4 x 112,9 (2) = 238,1 %

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as this efficiency is influenced by further factors such as heat losses in the distribution system and the

Informative section

η_{sys} ('I'): Water heating energy efficiency

'II': $(220 \times Q_{ref})/Q_{nonsol}$

III' = $(Q_{aux} \times 2,5)/(220 \times Q_{ref})$

Annex VII, table 15

Load profile:	Q_{ref} kWh
M	5,845
L	11,655
XL	19,070
XXL	24,530

Q_{nonsol} = 2182,29 kWh
Q_{aux} = 29 kWh

	enter a value
	select value
Red	auto filled in
	calculated value