

The logo features a stylized flame icon to the left of the text "Flier Heat".

Flier Heat

Feel Warm..Feel Safe



About Us

Flier Heat is one of the modern companies to lead the business of Central Heating systems.

We are dedicated to providing the best of each field system supported by exceptional services with high quality and suitable price And Creating comfortable, sustainable, and efficient environments.



Our Values

Customer Satisfaction is always on the Center of our Delivery Methodology

- Q uality
- S afety
- C ommitment
- R eliability



Our Story

We aim to differentiate ourselves in this business And Earn your trust .



400
PROJECT

250
CUSTOMERS



40
COMPOUNDS

50
COMPANIES



Our Partners



Trusted by



S e r v i c e s



Center Space Heating



Central Water Heating



Solar Water Heating



Under Floor Heating



Swimming Pool Heating



Fireplace

Central Heating Systems





Wall Mounted Gas Boiler



ALTEAS X



Wall-hung compact boiler with AUTO function

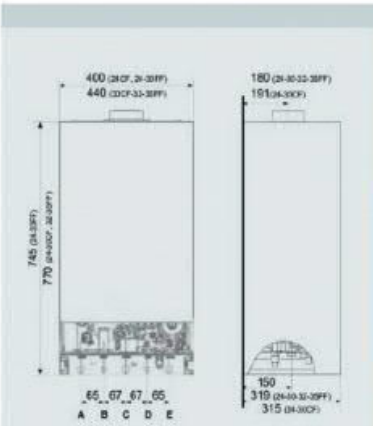
/ Very high efficiency (up to 93,6%, 24FF)
/ Ready to be used with renewable sources for hot water production

/ Best enjoyable design of its category
/ High resolution LCD display with full text, touch interface and intuitive menu

/ BusBridgeNet® communication protocol
/ Ariston Net embedded (Wi-Fi gateway on board)
/ Very good acoustic comfort thanks to the new optimized silence

/ "AUTO function", constant temperature for the maximum thermic comfort
/ "Comfort Function", instantaneous hot water, for 30' after its withdrawal, reducing waiting times
/ TIMER PROGRAMMING

/ Best materials available to guarantee high reliability and very long lifecycle
/ Boiler protection from water impurities accumulation
/ Anti-freezing systems preventing freezing and scale accumulation
/ With its IPX5D, the protection, against water jet streams (only FF version)



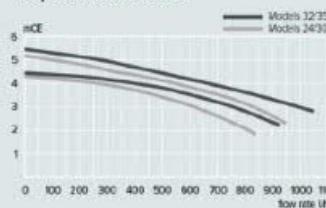
LEGEND

- A \ Central Heating Flow
- B \ Domestic Hot Water Outlet
- C \ Gas Inlet
- D \ Domestic Cold Water Inlet
- E \ Central Heating Return



24 / 30 CF / 24 / 30 / 32 / 35 FF

Graph of boiler's residual heat



CF Version - Natural draught



FF Versions - Coaxial exhaust



Ø60*100: up to 4m (24-28 kW) - 2m (22-35 kW)
Ø60*125: up to 11m (24-28 kW) - 8 m (32 kW) - 7 m (35 kW)

FF Versions - Twin pipe exhaust



Ø60*80: up to 45m (24kW) - 50m (28kW) - 33m (32-35 kW)

TECHNICAL DATA

	24 CF	30 CF	24 FF	30 FF	32 FF	35 FF
Max/min nominal heat input (H)	kW 25,3/16	21,0/10	25,8/10	30,0/10	32,5/10	34,5/10
Max/min nominal heat input (H)	kW 20,7/12	32,6/14	28,7/12	32,3/14	35,1/7	38,3/17
Max/min nominal heat input for hot water (H)	kW 27,0/16	30,9/10	25,8/10	30,0/10	34,9/10	34,5/10
Max/min nominal heat input for hot water (H)	kW 30,0/12	33,8/14	28,7/12	32,3/14	36,3/17	38,3/17
Heat output: max/min	kW 23,9/5	25,5/12	24,0/5	28,1/5	29,6/12,8	32,3/12
DHW Heat output: max/min	kW 25,8/10	27,9/5	25,8/10	25,4/5	32,2/10	32,2/10
Combustion efficiency (p/fuel gas)	% 92,7	92,8	92,7	92,8	93	93,9
Gross efficiency (nominal heat input (0/80 °C) H/H)	% 93,6/2,8	89,9/10	93,9/10	93,6/9,3	99,9/20	98,8/13
Gross efficiency at 30 °C at 47 °C H/H	% 92,8/2	89,7/10,8	93,9/10,40	93,7/10,4	98,8/19,9	92,8/13,4
Gross efficiency at minimum power H/H	% 90,2/12	86,5/7,5	85,7/11	92,7/10,4	85,0/15,5	88,2/19,4
Number of efficiency stars (Directive 92/42/EEC)	stars **	**	***	***	***	***
Max. heat loss to the casing (ΔT = 50 °C)	% 0,8	1,0	0,6	0,2	2	0,2
Heat loss through the flue when burner on	% 7,2	7,2	6,2	6,2	6,9	6,1
Heat loss through the flue when burner off	% 0,4	0,4	0,4	0,4	0,4	0,4

EMISSIONS

Residual discharge hose	Fe	-	-	120	145	130	130
Minimum draw	Fe	41	4,3	-	-	-	-
Nox class	class	2	2	3	3	3	3
Flue gases temperature (G2)	°C	196	125	17	110	125	112
CO2 content (G2)	%	5,4	6,1	6,5	6,1	6,4	6,4
CO content (P %O2)	ppm	54	44	60	11	148	159
O2 content (G2)	%	10,8	9,5	8,8	9,5	9	9
Max capacity flues (G2)	kg/h	67,2	70,2	56,9	71,2	77,2	77,2
Excess air	%	105	92	72	83	75	75

HEATING CIRCUIT

Expansion vessel pre-charged pressure	Mpa (bar)	0,1 (1)	0,1 (1)	0,1 (1)	0,1 (1)	0,1 (1)	0,1 (1)
Maximum central heating circuit pressure	Mpa (bar)	0,3 (3)	0,3 (3)	0,3 (3)	0,3 (3)	0,3 (3)	0,3 (3)
Expansion vessel capacity	l	6	6	6	8	8	8
Central heating temperature: max/min	°C	82/35	82/35	82/35	82/35	82/35	82/35

DOMESTIC HOT WATER CIRCUIT

Domestic hot water temperature: max/min	°C	60/36	60/36	60/36	60/36	60/36	60/36
Specific flow rate of domestic hot water system (0 °C H ₂ O with ΔT = 30 °C) instant boilers	l/min	1,8	12,2	12	12,2	13	13
DH-W flow rate ΔT = 25 °C	l/min	14,2	16	13,5	15,7	16,5	16,5
DH-W flow rate ΔT = 35 °C	l/min	10,2	11,4	9,6	11,2	12,2	12,2
H ₂ O water comfort class (EN13203)	stars	**	**	**	**	**	**
DH-W minimum flow rate	l/min	<2	<2	1,7	1,7	1,7	1,7
Domestic hot water pressure: max/min	Mpa (bar)	0,7 (7) / 0,1	0,7 (7) / 0,1	0,7 (7) / 0,1	0,7 (7) / 0,1	0,7 (7) / 0,1	0,7 (7) / 0,1

ELECTRICAL

Power supply voltage/frequency	V/Hz	220/50	220/50	220/50	220/50	220/50	220/50
Power consumption	W	90	90	84	101	101	101
Minimum operating room temperature	°C	5	5	5	5	5	5
Backlit system grades of protection	P	X5D	X5D	X5D	X5D	X5D	X5D
Weight	kg	27	26	31	32	30	31

CODE

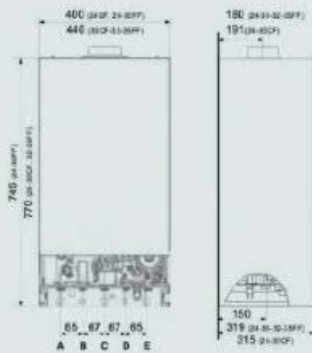
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GENUS X



Wall-hung compact boiler with AUTO function

- / Very High efficiency (up to 93,8%, 24FF)
- / Ready to be used with renewable sources for hot water production
- / Best enjoyable design of its category
- / High resolution LCD display with full text, touch interface and intuitive menu
- / BusBridgeNet® communication protocol
- / Ariston Net ready for - Ariston Net embedded
- / Very good acoustic comfort thanks to the new optimized silence
- / "AUTO function", constant temperature for the maximum thermic comfort
- / "Comfort Function", instantaneous hot water, for 30', after first withdrawal, reducing waiting times
- / Best materials available to guarantee high reliability and very long lifecycle
- / Boiler protection from water impurities accumulation
- / Anti-freezing systems preventing freezing and scale accumulation
- / With its IPX5D, the protection, against water jet streams (only FF version)

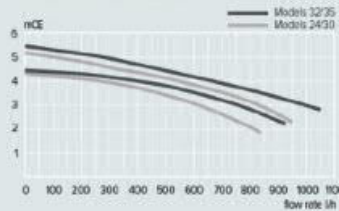


LEGEND

- A: Central Heating Flow
- B: Domestic Hot Water Outlet
- C: Gas Inlet
- D: Domestic Cold Water Inlet
- E: Central Heating Return



Graph of boiler's residual head



CF Version - Natural draught



FF Versions - Coaxial exhaust



Ø60/100: up to 4m (24-28 kW) - 2m (22-35 kW)
 Ø80/125: up to 5m (24-28 kW) - 8 m (32 kW) - 7 m (35 kW)

FF Versions - Twin pipe exhaust



Ø60/80: up to 45m (24kW) - 50m (28kW) - 33m (32 kW) - 33m (35 kW)

TECHNICAL DATA

	24 CF	30 CF	24 FF	30 FF	32 FF	35 FF	
POWER SPECIFICATIONS							
Maximum nominal heat input (P _{max})	kW 25,81/0	25,5/0,0	25,81/0	30,0/30	32,5/5,0	34,5/5,0	
Maximum nominal heat input (H _{max})	kW 24,0/0,2	32,81/4	28,7/0,2	33,3/4	36,1/6	38,3/6,7	
Maximum nominal heat input for hot water (P _H)	kW 27,0/1,0	30,5/3,0	25,81/0	30,0/30	34,5/5,0	34,5/5,0	
Maximum nominal heat input for hot water (H _H)	kW 30,0/0,2	33,91/4	26,7/0,2	33,3/4	36,1/6	38,3/6,7	
Heat output: maximum	kW 23,7/6,9	26,5/1,2	24,0/5,5	28,7/6	29,0/2,8	32,3/3,2	
D.H.W. Heat output: maximum	kW 25,0/0,2	27,5/1,5	23,6/0,0	27,4/1,9	32,2/4,0	32,2/4,0	
Combustion efficiency of fuel gas	% 90,7	90,8	90,7	93,8	93,1	93,9	
Gas efficiency of nominal heat input (ISO 15080) (η _{gas})	% 91,98/2,8	89,98/0	93,16/3,8	89,96/9,4	90,82/0	90,68/4,3	
Gross efficiency at 30% at 47°C (H ₃₀)	% 92,0/2	89,7/0,8	92,3/0,0	92,7/9,4	93,8/0,9	92,6/3,4	
Gross efficiency at minimum power (H _{min})	% 90,2/0,2	86,5/7,0	86,7/0,1	92,7/9,4	95,0/6,5	98,2/0,4	
Number of efficiency stars (Directive 92/42/EEC)	stars	★★	★★	★★★	★★★★	★★★★★	
Max. heat loss to the casing (ΔT = 50°C)	%	0,8	2,9	0,6	0,2	2	0,3
Heat loss through the flue when burner on	%	7,3	7,2	6,3	6,2	5,9	6,1
Heat loss through the flue when burner off	%	0,4	0,4	0,4	0,4	0,4	0,4

EMISSIONS		Pa	-	120	145	170	190
Residual discharge head	Pa	-	-	120	145	170	190
Minimum draught	Pa	4,1	4,3	-	-	-	-
Nox class	class	2	2	3	3	3	3
Flue fumes temperature (G20)	°C	116	125	117	110	125	112
CO2 content (G20)	%	5,4	6,1	6,5	6,1	6,4	6,4
CO content (l %O2)	ppm	94	44	60	111	141	159
O2 content (G20)	%	10,8	9,5	8,8	9,5	9	9
Max capacity fumes (G20)	kg/h	67,2	70,2	56,9	71,2	77,2	77,2
Excess air	%	105	81	72	83	75	75

HEATING CIRCUIT		Mpa (bar)	0,1 (1)	0,1 (1)	0,1 (1)	0,1 (1)	0,1 (1)	0,1 (1)
Expansion vessel pre-charged pressure	Mpa (bar)	0,1 (1) <td>0,1 (1) <td>0,1 (1) <td>0,1 (1) <td>0,1 (1) <td>0,1 (1) <td>0,1 (1) </td></td></td></td></td></td>	0,1 (1) <td>0,1 (1) <td>0,1 (1) <td>0,1 (1) <td>0,1 (1) <td>0,1 (1) </td></td></td></td></td>	0,1 (1) <td>0,1 (1) <td>0,1 (1) <td>0,1 (1) <td>0,1 (1) </td></td></td></td>	0,1 (1) <td>0,1 (1) <td>0,1 (1) <td>0,1 (1) </td></td></td>	0,1 (1) <td>0,1 (1) <td>0,1 (1) </td></td>	0,1 (1) <td>0,1 (1) </td>	0,1 (1)
Maximum central heating circuit pressure	Mpa (bar)	0,3 (3)	0,3 (3)	0,3 (3)	0,3 (3)	0,3 (3)	0,3 (3)	0,3 (3)
Expansion vessel capacity	l	8	8	8	8	8	8	8
Central heating temperature: maximum	°C	82/35	82/35	82/35	82/35	82/35	82/35	82/35

DOMESTIC HOT WATER CIRCUIT		°C	60/36	60/36	60/36	60/36	60/36	60/36
Domestic hot water temperature maximum	°C	60/36	60/36	60/36	60/36	60/36	60/36	60/36
Specific flow rate of domestic hot water system (10 min. with ΔT=20°C) instant boilers	l/min	11,8	12,2	11,2	12,2	15,1	15,1	15,1
D.H.W. flow rate ΔT=25°C	l/min	14,3	16	13,5	15,7	18,5	18,5	18,5
D.H.W. flow rate ΔT=35°C	l/min	10,2	11,4	9,6	11,2	13,2	13,2	13,2
Hot water comfort stars (EN13203)	stars	★★	★★	★★	★★	★★	★★	★★
D.H.W. minimum flow rate	l/min	<2	<2	1,7	1,7	1,7	1,7	1,7
Domestic hot water pressure maximum	Mpa (bar)	0,70 (7)	0,70 (7)	0,70 (7)	0,70 (7)	0,70 (7)	0,70 (7)	0,70 (7)

ELECTRICAL		VHz	220/50	220/50	220/50	220/50	220/50	220/50
Power supply voltage/frequency	VHz	220/50	220/50	220/50	220/50	220/50	220/50	220/50
Power consumption	W	50	50	84	101	101	101	101
Minimum operating room temperature	°C	5	5	5	5	5	5	5
Electric system grades of protection	IP	X5D	X5D	X5D	X5D	X5D	X5D	X5D
Weight	kg	27	28	31	32	30	31	31

CODE

330050 330052 330051 330053 330054 330055

CLAS X



Compact wall-mounted conventional boiler with AUTO function

- / LCD panel
- / High-efficiency circulator pump with continuous modulation (model CF EU)

- / Configured for Ariston Net connectivity
- / Bridgenet® bus communication protocol
- / Configured for multi-zone and multi-temperature temperature control
- / Configured for use with solar heating systems
- / AUTO and Comfort functions

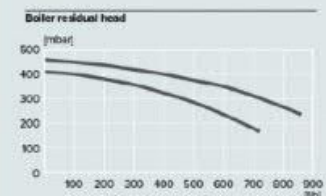
- / Aluminium finned primary heat exchanger
- / Cold water inlet and heating return filters
- / **Low NOx emissions < 56 mg/kWh (model CF EU)**

ENERGY CLASS



KEY

- A) System delivery Ø 3/4" gas
- B) Domestic hot water Ø 1/2" gas
- C) Gas inlet Ø 3/4" gas
- D) Domestic hot water inlet Ø 1/2" gas
- E) System return Ø 3/4" gas



CF versions - Natural draught



Description	N° of boilers per panel
CLAS X 24 CF	14
CLAS X 28 CF	12

TECHNICAL DATA

	24 CF EU	28 CF EU	24 CF NO	24 FF	28 FF
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POWER SPECIFICATIONS		24 CF EU	28 CF EU	24 CF NO	24 FF	28 FF
Maxim. nominal calorific flow rate (H)	kW	25,8/11	25,5/13	25,8/11	25,8/11	30/13
Maxim. nominal calorific flow rate (L)	kW	26,7/12,2	32,8/14,4	26,7/12,2	26,7/12,2	33,3/14,4
Domestic hot water maximum nominal calorific flow rate (H)	kW	27/11	25,5/13	27/11	25,8/11	30/13
Domestic hot water maximum nominal calorific flow rate (L)	kW	30/12,2	32,8/14,4	30/12,2	26,7/12,2	33,3/14,4
Maxim. power output (80°C/60°C)	kW	23,2/9,8	26,6/11,6	23,7/9,9	24/5,5	28/11,6
Domestic hot water maxim. power output	kW	24,3/9,9	26,6/11,7	25/10,2	23,6/10	27,4/11,9
Combustion efficiency (at flue gas)	%	93,3	92,9	92,9	93,7	93,8
Nominal calorific flow rate efficiency (60/80°C) H/H	%	90,1/91	90,2/81,2	91,9/82,8	93,1/83,8	93,6/84,3
Efficiency at 30% at 4°C H/H	%	85,5/81	90,3/81,3	91,2/81,2	93,3/84	93,7/84,4
Minimum calorific flow rate efficiency (60/80°C) H/H	%	88,9/80,1	89,4/80,5	90,2/81,2	86,7/81	89,3/80,4
Efficiency rating (at 92/42/EEC)		★★	★★	★★	★★★	★★★★
Seiblok class classe		D	D	D	D	D
Loss of burner gas when operating	%	6,7	7,1	7,3	6,3	6,2

EMISSIONS		24 CF EU	28 CF EU	24 CF NO	24 FF	28 FF
Airside air pressure	Pa	-	-	-	120	145
NOx class class		6	6	3	3	3
Flue gas temperature (S20) (80°C/60°C)	°C	111	119	116	117	110
CO2 content (G2) (80°C/60°C)	%	-	-	5,4	6,5	6,1
CO content (G1) (80°C/60°C)	ppm	819	904	54	60	111
O2 content (G2) (80°C/60°C)	%	10,4	10,1	10,8	6,5	9,5
Maximum flue gas flow (S20) (80°C/60°C)	kg/h	68,2	72,8	67,2	66,9	71,2
Excess air (80°C/60°C)	%	98	93	105	72	83

HEATING CIRCUIT		24 CF EU	28 CF EU	24 CF NO	24 FF	28 FF
Expansion chamber inflation pressure	bar	1	1	1	1	1
Maximum heating pressure	bar	3	3	3	3	3
Expansion chamber capacity	l	6,5	6,5	6,5	6,5	6,5
Central heating temperature: maximum	°C	82/35	82/35	82/35	82/35	35/82

DOMESTIC HOT WATER CIRCUIT		24 CF EU	28 CF EU	24 CF NO	24 FF	28 FF
Domestic hot water maximum temperature	°C	60/36	60/36	60/36	60/35	60/35
Specific flow rate of domestic hot water (60°C - 21°C)	l/min	12,2	13,2	11,8	11,2	13,2
Quantity of hot water ΔT=25°C	l/min	14,6	15,8	14,3	13,5	15,7
Quantity of hot water ΔT=35°C	l/min	10,6	11,3	10,2	9,6	11,2
Hot water comfort rating (EN13201)		★★★	★★★	★★	★★	★★
Hot water minimum flow rate	l/min	2	2	2	2	2
Domestic hot water max pressure	bar	7	7	7	7	7

ELECTRICAL		24 CF EU	28 CF EU	24 CF NO	24 FF	28 FF
Power supply frequency/voltage	V/Hz	230/50	230/50	230/50	230/50	230/50
Total electrical power absorbed	W	521	521	78	108	101
Minimum ambient temperature for use	°C	5	5	5	5	5
Protection level for the electrical appliance	IP	X40	X40	X40	X50	X50
Weight	kg	27	27	27	29	28

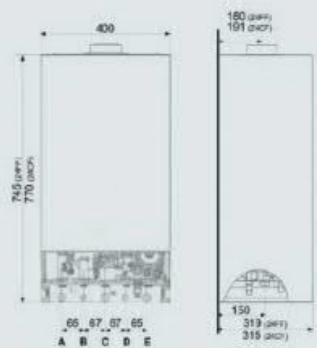
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CARES X



Wall-hung compact boiler

- / Very high efficiency (up to 93,8% 24FF)
- / LCD display and intuitive menu
- / Ariston Net ready for
 - / Addition of a thermostatic mixing valve allows the connection with a natural circulation solar water heater
 - / The boiler is already equipped for the domestic hot water production
 - / Connection of on-off thermoregulation accessories allows the heating programming for the whole week
 - / Suitable for heating large spaces
- / Best materials available to guarantee high reliability and very long lifecycle
- / Boiler protection from water impurities accumulation with the addition of heating return filter
- / Anti-freezing systems preventing freezing and scale accumulation
- / The external combustion analysis port allows easy check of combustion quality

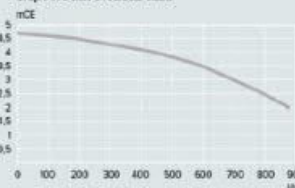


LEGEND

- A: Central Heating Flow
- B: Domestic Hot Water: Outer
- C: Gas Inlet
- D: Domestic Cold Water Inlet
- E: Central Heating Return



Graph of boiler's residual head



CF Version - Natural draught



FF Versions - Coaxial exhaust



Max length:
Ø66/100: up to 4m (15-18-24 kW)
Ø80/125: up to 7m (15-18-24 kW)

FF Versions - Twin pipe exhaust



Max length:
Ø80/80: up to 45m (15-18-24 kW)

TECHNICAL DATA

15 CF 24 CF NO 15 FF 18 FF 24 FF

POWER SPECIFICATIONS

Maximum nominal heat input (H)	kW	16,5/10	25,5/10	15,0/10	19,0/10	25,8/10
Maximum nominal heat input (H-g)	kW	16,3/12,2	24,7/12,2	14,7/12,2	21/12,2	28,7/12,2
Maximum nominal heat input for hot water (H)	kW	27/10	27/10	25,8/10	25,8/10	25,8/10
Maximum nominal heat input for hot water (H-g)	kW	30,0/12,2	30,0/12,2	28,7/12,2	28,7/12,2	28,7/12,2
Heat output: maximum	kW	14,9/9	23,7/9	12,9/9	17,9/9	24,0/9
D.H.W. Heat output: maximum	kW	25,0/12,2	25,0/12,2	23,8/10	23,8/10	23,8/10
Combustion efficiency (of flue gas)	%	90,9	92,7	92,9	93,0	93,7
Gross efficiency of nominal heating (S40 Q)H/H	%	90,2/82,2	91,9/82,8	90,2/81,2	90,6/84,2	91,1/83,8
Gross efficiency at 30 % at 47°C H/H-g	%	89,5/80,6	91,2/81	89,3/80,4	90,4/83,2	90,3/84,0
Gross efficiency at minimum power H/H-g	%	90,2/81,8	90,2/81,2	89,7/81	90,7/81	90,7/81
Number of efficiency stars (Directive 92/50/EEC)	stars	★★	★★	★★	★★★	★★★
Min. heat loss to the casing (at = 50°C)	%	0,7	0,8	2,7	0,2	0,8
Heat loss through the flue when burner on	%	91	73	78	62	63
Heat loss through the flue when burner off	%	0,4	0,4	0,4	0,4	0,4

EMISSIONS

Residual discharge head	Pa	-	-	120	120	120
Minimum draw	Pa	3,6	4,1	-	-	-
Nox class	class	2	2	3	3	3
Flue flammability temperature (G20)	°C	38	36	15	16	17
CO2 content (G20)	%	3,4	5,4	5,5	6,5	6,5
CO content (G20)	ppm	4	54	40	22	60
O2 content (G20)	%	14,1	10,8	10,6	8,8	8,8
Max capacity tonnes (G20)	kg/h	9,2	6,2	9,9	9,9	9,9
Excess air	%	29	105	101	72	72

HEATING CIRCUIT

Expansion vessel pre-charged pressure	Mpa(a)	0/1	0/1	0/1	0/1	0/1
Maximum central heating circuit pressure	Mpa(a)	0,3/3	0,3/3	0,3/3	0,3/3	0,3/3
Expansion vessel capacity	l	8	8	8	8	8
Central heating temperature: maximum	°C	82/85	82/85	82/85	82/85	82/85

DOMESTIC HOT WATER CIRCUIT

Domestic hot water temperature: maximum	°C	60/60	60/60	60/60	60/60	60/60
Specific flow rate of domestic hot water system (0 min with 57-30°C instant boilers)	l/min	8,8	8,8	11,2	11,2	11,2
D.H.W. flow rate ΔT=25°C	l/min	14,3	14,3	13,5	13,5	13,5
D.H.W. flow rate ΔT=35°C	l/min	10,2	10,2	9,6	9,6	9,6
Hot water comfort stars (EN13203)	stars	★★	★★	★★	★★	★★
D.H.W. minimum flow rate	l/min	<2	<2	<2	<2	<2
Domestic hot water pressure: maximum	Mpa(a)	0,7/0,1	0,7/0,1	0,7/0,1	0,7/0,1	0,7/0,1

ELECTRICAL

Power supply voltage/frequency	V/Hz	220/50	220/50	220/50	220/50	220/50
Power consumption	W	78	78	112	112	112
Minimum operating room temperature	°C	5	5	5	5	5
Electric system grades of protection	IP	X4D	X4D	X5D	X5D	X5D
Weight	kg	26	26	28	28	28

CODE

3300891 3300885 3300887 3302885 3303885

ECHO
TRADING



 **ARISTON**

**GAS WATER HEATERS
BIG CAPACITY**



SGA



COMFORT

- Temperature control
- Piezoelectric ignition system

EFFICIENCY & ENERGY SAVING


- Ecological polyurethane insulation

QUALITY

- Titanium glasslined inner tank tested at 16 bar
- Exclusive triple safety device gas valve

ENERGY CLASS
UP TO **B** 

**a lot of
hot water**

TECHNICAL DATA		120P CA	150P CA	200P CA	SGA 300 (CE)	SGA 500	SGA 800**	SGA 1000**
Capacity	l	115	155	195	290	450	780	950
Power	kW	7.5	8.4	10.1	16.7	22	37	37
Output power	kW	8.4	7.2	8.5	14.2	18.7	32.5	32.5
Heating time (ΔT= 45°C)	h, min.	1:03	1:13	1:13	1:05	1:20	1:20	1:37
40°C water per use*	l/h	209	235	281	464	611	1062	1062
1st hour water at 40°C*	l	475	524	733	1135	1653	2778	3152
NG consumption	m³/h	0.794	0.890	1.069	1.758	2.325	3.900	3.900
LPG consumption	kg/h	0.591	0.662	0.795	1.215	1.708	2.900	2.900
Max. Working Pressure	bar	8	8	8	8	8	6	6
Weight	kg	43	53	61	107	200	216	246
OVERALL DIMENSIONS								
a	mm	117	137	167	1625	2240	2000	2220
b	mm	495	495	495	632	2070	1600	2020
c	mm	230	230	230	400	705	590	950
d	mm	175	175	175	216	705	900	900
e	mm	55	55	55	116	556	450	460
f	mm	1200	1450	1700	1681	1156	950	1070
g	mm	310	310	310	-	1649	1440	1680
h	mm	-	-	-	-	377	340	340
i	mm	-	-	-	-	750	750	720
CODE								
 Erp class		007703	007704	007705	006126	007731	007810	007811
Tapping profile		B	B	B	C	C	B	B
		L	L	XL	XXL	XXL	XXL	XXL



* According to EN 89:2008
** Floor standing

W a l l R a d i a t o r s



"Ottimo è un radiatore di design che reinterpreta in chiave contemporanea, con segni gentili, i tradizionali sistemi termoidraulici: è un oggetto senza tempo che trasmette sensazioni di novità e gradevolezza per abitazioni classiche o di design. Gli accorgimenti estetici che alleggeriscono la linea di questo modello sono stati resi possibili grazie all'utilizzo dell'alluminio pressofuso che consente di ridurre al minimo gli spessori e il peso. I prodotti della linea Ottimo sono modulari e affiancabili".



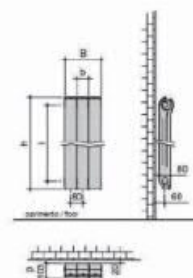
OTTIMO

Radiatori 2000 rappresenta l'eccellenza italiana nel settore del riscaldamento. Grazie ad una produzione Made in Italy, una forte cultura sostenibile e una continua innovazione tecnologica è in grado di offrire una vasta gamma di radiatori molto efficienti e con un'estetica piacevole e curata: Ottimo, il primo radiatore pressofuso di design al mondo.

20
BAR

Radiatori 2000 represents the Italian excellence in the field of heating. Through an entire production made in Italy, a very strong sustainable culture and a continuous technological innovation is able to offer a wide range of radiators very efficient and with a pleasing aesthetic. Ottimo, the first design die-cast in the world!

MODELLO model	h (mm) altezza height	b (mm) larghezza width	l (mm) interspazio center distance	p (mm) profondità depth	peso weight kg	contenuto d'acqua water content lt	resa termica / thermal output w		
							Δ 30°	Δ 50°	Δ 60°
500	598	80	500	103	1,4	0,5	54,1	103,2	129,9
600	698	80	600	103	1,6	0,5	62,1	118,6	149,4
800	898	80	800	103	2,1	0,7	76,8	149,2	189,1



B = (5xN) + 20 mm
N = (max 14) n° elementi batteria
(max 14) n° elements battery

Finitura litografata in queste pagine / finish photographed on these pages:
Nax Satin 200 - White 9016 Glossy



ACCESSORI / ACCESSORIES



Set Basic valvola e detettore
Basic valve and detector set

4 tappi di design
4 design caps

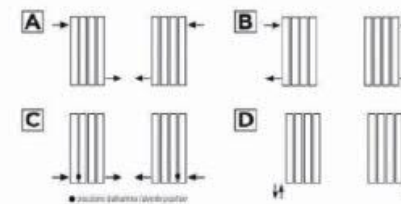
FINITURE DISPONIBILI / AVAILABLE FINISHES

Standard: RAL BIANCO LUCIDO 9016
RAL 9016 white glossy

Verniciature materiche
Textured paints



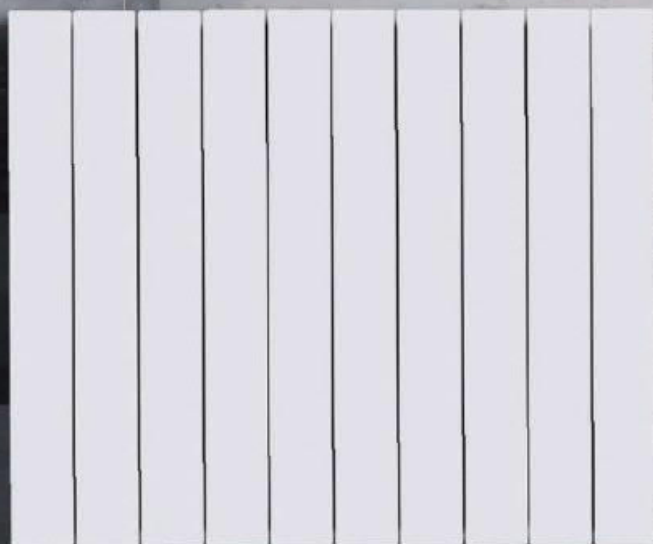
ALLACCIAMENTI / CONNECTIONS



● Ingresso Batteria (Inlet/Outlet)

ECHO
TRADINGI RADIATORI IN ALLUMINIO
CHE RISPETTANO L'AMBIENTERadiatori
2000THE ALUMINIUM RADIATORS THAT
ARE FRIENDLY TO THE ENVIRONMENT

PLUS EVO



MADE IN ITALY

20
BAR

PLUS EVO

Il modello PLUS EVO è il radiatore concepito per seguire l'evoluzione del design sempre più improntato su linee minimal e moderne, adatto a tutti gli ambienti.

PLUS EVO is the radiator specially conceived to follow the evolution of design, with a growing focus on minimal, contemporary lines, suitable for any home decor.

MODELLO model	h (mm) altezza height	b (mm) larghezza width	i (mm) interasse center distance	p (mm) profondità depth	peso weight kg	contenuto d'acqua water content lt	resa termica / thermal output w		
							Δt 30°	Δt 50°	Δt 60°
350	431	80	350	95	0,99	0,22	45,1	86,4	108,9
500	581	80	500	95	1,31	0,32	59,8	115,4	145,9
600	681	80	600	95	1,47	0,36	66,2	128,2	162,3
700	781	80	700	95	1,73	0,39	74,2	143,9	182,2
800	881	80	800	95	1,95	0,43	82,5	160,9	204,1

20
BAR

$B = (b \cdot i) + 20 \text{ mm}$
 $N = (\text{max } 14) \text{ n° elementi batteria}$
 $(\text{max } 14) \text{ n° elements battery}$

ACCESSORI / ACCESSORIES



Set Basic valvola e detentore
Basic: valve and detector set



Kit tappi, riduzioni e mensole
Caps, adaptors and brackets kit



Coppia di fianchetti con tappi di design
Pair of sides with design caps

Finiture fotografata in questa pagina / Finish photographed on these pages:
 Noir Sebà 200 - White 9016 Glossy



FINITURE DISPONIBILI / AVAILABLE FINISHES

Standard: RAL BIANCO LUCIDO 9016
RAL 9016 white glossy

Verniciature materiche
Textured paints



cartella colori completa a pag. 43 / full color chart on p. 43

ALLACCIAMENTI / CONNECTIONS

A B C D

I RADIATORI IN ALLUMINIO
CHE RISPETTANO L'AMBIENTE



THE ALUMINIUM RADIATORS THAT
ARE FRIENDLY TO THE ENVIRONMENT

KALIS

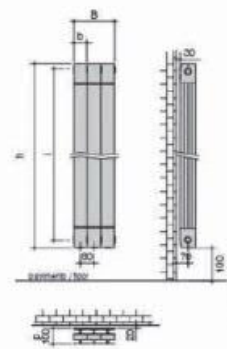
MADE IN ITALY

KALIS

Radiatori 2000 rappresenta l'eccellenza italiana nel settore del riscaldamento. Grazie ad una produzione Made in Italy, una forte cultura sostenibile e una continua innovazione tecnologica è in grado di offrire una vasta gamma di radiatori molto efficienti e con un'estetica piacevole e curata: Kalis, il pratico modello estruso e pressofuso salva-spazio.

Radiatori 2000 represents the Italian excellence in the field of heating. Through an entire production made in Italy, a very strong sustainable culture and a continuous technological innovation is able to offer a wide range of radiators very efficient and with a pleasing aesthetic: Kalis, extruded and die-cast model space-saving solution.

MODELLO model	h (mm) altezza height	b (mm) larghezza width	i (mm) interasse center distance	p (mm) profondità depth	peso weight kg	contenuto d'acqua water content lt	resa termica / thermal output w		
							Δ 30°	Δ 50°	Δ 60°
900	970	80	900	100	1,85	0,37	85,9	169,6	216,2
1000	1070	80	1000	100	2,00	0,38	93,7	184,6	235,2
1200	1270	80	1200	100	2,30	0,40	106,4	211,7	270,6
1400	1470	80	1400	100	2,60	0,50	119,3	237,1	303,0
1600	1670	80	1600	100	2,90	0,60	131,7	261,7	334,4
1800	1870	80	1800	100	3,20	0,65	143,0	284,6	363,8
2000	2070	80	2000	100	3,50	0,70	154,2	307,5	393,4



B = (8x14) + 20 mm
H = (max 6) n° elementi batteria
(max 6) n° elements battery

FINITURE DISPONIBILI / AVAILABLE FINISHES

Standard: RAL BIANCO LUCIDO 9016
RAL 9016 white glossy

Verniciature RAL / RAL paints



Verniciature materiche
Textured paints



Verniciature speciali
Special paints



ACCESSORI / ACCESSORIES

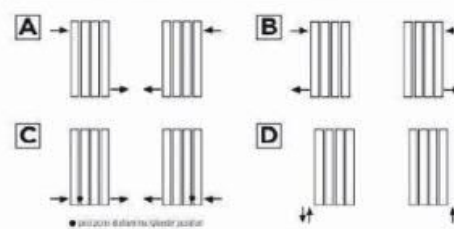


Set Basic valvola e detettore
Basic valve and detector set



Kit tappi, riduzioni
e mensole
Caps, adaptors
and brackets kit

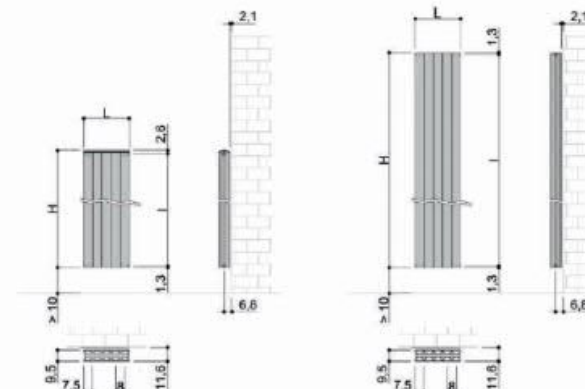
ALLACCIAMENTI / CONNECTIONS





Extruded radiator characterized by elements with an unusual shape. The right combination of practicality, design and thermal power. In the low version it is embellished with an extruded aluminum cover.

PLISSET



codice code	versione feeding	n numero elementi elements number	H	L	i	Qs (W)		peso a vuoto weight empty	contenuto d'acqua water content			
			altezza height	larghezza width	interasse center to center distance	resa termica thermal yield						
			(mm)	(mm)	(mm)	Dt 30°C	Dt 50°C	(kg)	(lt)			
615.1.060001.22	6	3	626	237	600	180	351	3,4	1,0			
615.1.060004.22		4		315		244	468	4,5	1,3			
615.1.060005.22		5		395		305	585	5,6	1,6			
615.1.060006.22		6		474		366	702	6,7	2,0			
615.1.060007.22		7		553		427	819	7,8	2,3			
615.1.060008.22		8		632		488	936	9,0	2,6			
615.1.060009.22		9		711		549	1053	10,1	3,0			
615.1.060010.22		10		790		610	1170	11,2	3,3			
615.1.080001.22		6		3		826	237	800	231	450	4,3	1,3
615.1.080004.22				4			315		308	600	5,7	1,7
615.1.080005.22	5		395	385	750		7,1		2,1			
615.1.080006.22	6		474	462	900		8,5		2,5			
615.1.080007.22	7		553	539	1050		10,0		2,9			
615.1.080008.22	8		632	616	1200		11,4		3,3			
615.1.080009.22	9		711	693	1350		12,8		3,8			
615.1.080010.22	10		790	770	1500		14,2		4,2			
615.1.180001.22	6		3	1826	237		1800		456	897	8,8	2,6
615.1.180004.22			4		315				606	1196	11,8	3,5
615.1.180005.22		5	395		760	1495		14,7	4,4			
615.1.180006.22		6	474		912	1794		17,7	5,2			
615.1.180007.22		7	553		1064	2093		20,6	6,1			
615.1.180008.22		8	632		1216	2392		23,5	7,0			
615.1.180009.22		9	711		1368	2691		26,5	7,8			
615.1.180010.22		10	790		1520	2990		29,4	8,7			
615.1.200001.22		6	3		2026	237		2000	477	961	9,7	2,9
615.1.200004.22			4			315			636	1308	13,0	3,8
615.1.200005.22	5		395	795		1635	16,2		4,8			
615.1.200006.22	6		474	954		1962	19,5		5,8			
615.1.200007.22	7		553	1113		2289	22,7		6,7			
615.1.200008.22	8		632	1272		2616	26,0		7,7			
615.1.200009.22	9		711	1431		2943	29,2		8,6			
615.1.200010.22	10		790	1590		3270	32,5		9,6			

120 LEGGERO · e

The maximum expression of uniform heat.



SMART CONTROL

Controllable by 'Radiator 2000' App or remote wall control.

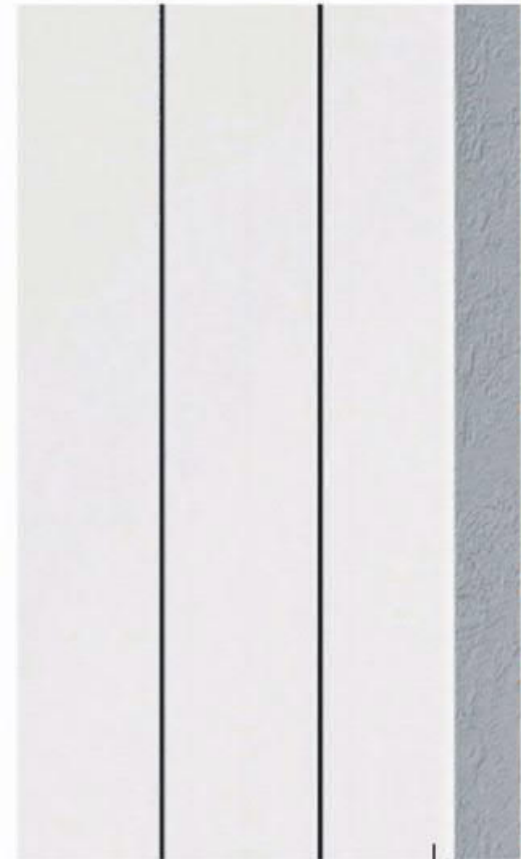
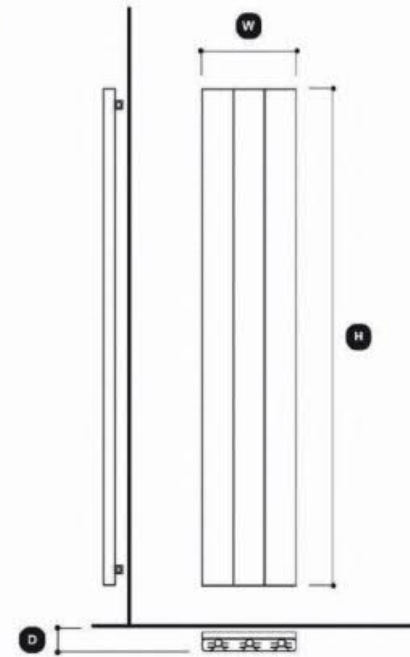
— AVAILABLE FINISHES



MODEL	ELEMENTS	H HEIGHT (mm)	W WIDTH (mm)	D DEPTH (mm)	WEIGHT (kg)	ELECTRICAL POWER (w)
1000 w	2		236		11	1000
1500 w	3	1800	356	72	15,5	1500
2000 w	4		476		20,5	2000

High power and intelligent control for a unique and aesthetically pleasing radiator. Available with side panel rounded or square.

Available in 1000/1500/2000 watt versions.

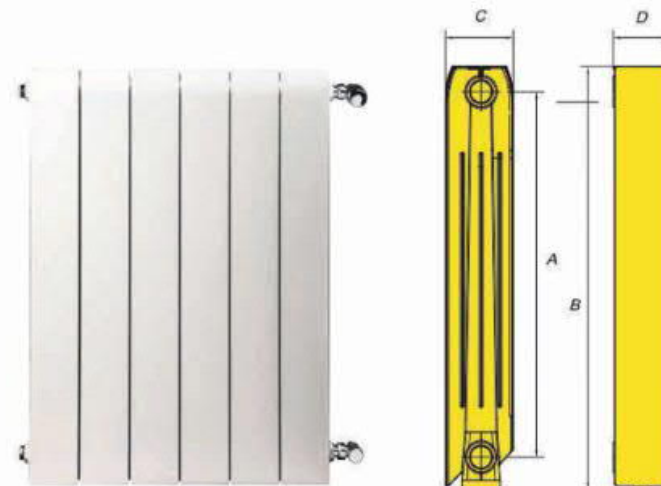


IL MASSIMO DELLA VERSATILITÀ
THE MAXIMUM OF VERSATILITY

ALLIANCE

Quando l'alluminio e la tecnologia si fondono per creare armonia e benessere nasce Alliance, sintesi tra estetica, funzionalità e prestazioni. Le sue superfici curvate ed arrotondate all'estremità, fanno di Alliance il radiatore più apprezzato a livello estetico.

When aluminum and technology merge Alliance arises. It is the synthesis of aesthetics, functionality and performance. Alliance is the most appreciated radiator for aesthetics thanks to its rounded and curved surfaces.



- Pressione massima d'esercizio: 600 kPa (6 Bar)
 - I valori di resa termica sono conformi alla norma europea UNI EN 442-2
 - Garanzia: 15 anni
 - Gli elementi vengono assemblati in batterie da 4 a 15
 - Colore standard RAL 9010 Fara
- Maximum operative pressure: 600kPa (6 Bar)
 - The thermal power complies with the European Standard UNI EN 442-2
 - Warranty: 15 years
 - Radiators are assembled from 4 to 15 elements
 - Standard colour RAL 9010 Fara

DATI TECNICI TECHNICAL DATA

Modello Model	A Interasse mm Distance between centres mm	B Altezza mm Height mm	C Profondità mm Depth mm	D Larghezza mm Width mm	Diámetro pollici Diameter inches	Contenuto d'acqua Volume Water content Volume	Resistenza termica EN 442 Δt = 50 K Watt/elemento Thermal power EN 442 Δt = 50 K Watt/element	Resistenza termica EN 442 Δt = 30 K Watt/elemento Thermal power EN 442 Δt = 30 K Watt/element	Esponente K Exponent K
ALLIANCE									
ALLIANCE	350	430	95	80	1"	0,25	92	48	1,293
ALLIANCE	500	530	95	80	1"	0,34	124	61	1,295
ALLIANCE	600	680	95	80	1"	0,39	142	72	1,348
ALLIANCE	700	780	95	80	1"	0,44	160	80	1,356
ALLIANCE	800	880	95	80	1"	0,49	177	87	1,361



Double COMFORT, Double TRACKING

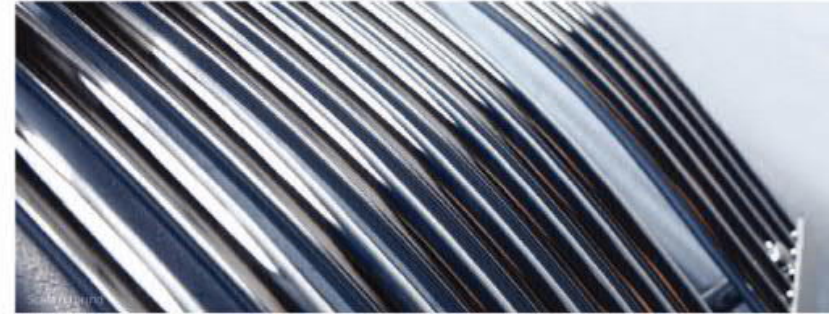


SCALA N

SCALA N

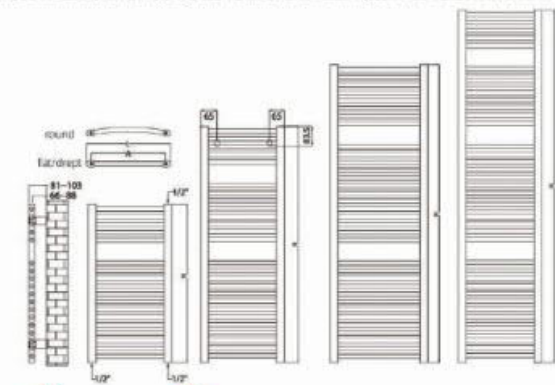
SCALA N is a good looking radiator which won't steal the show, just will keep you and your towels warm all day. Available in any colour and chrome plated. In its round version, SCALA N ROUND is a elegant towel rail radiator, its gently curving tubes work together to combine aesthetic appeal with efficient drying space.

SCALA N este un radiator emblematic, practic și util, extrem de eficient în încălzirea camerei și a prosoapeilor, disponibil în orice culoare și cromat. În varianta round, SCALA N ROUND combină aspectul estetic cu utilitatea, beneficiind, datorită elementelor săi curbați, de un spațiu de depozitare și încălzire prosoape eficient.



Height/ Înălțime (H)	Length/ Lățime (L)	Centres/ Interax (A)	No. el/br element/	Weight/ Greutate	Volume/ Volum	OUTPUT/PUTERE TERMICĂ (watt)				①				
						Δt=30°C	Δt=40°C	Δt=50°C	Δt=60°C					
mm	mm	mm	pcs	kg	l	sat	chrome	sat	chrome	sat	chrome	sat	chrome	cc/central
800	450	400	18	6.0	3.6	179	138	253	195	342	263	426	328	300
800	500	450	18	6.5	3.8	200	154	282	217	381	293	475	365	300
800	600	550	18	9.4	5.2	231	177	326	251	440	339	548	421	500
1200	450	400	26	8.7	5.2	261	201	369	284	499	384	620	477	600
1200	500	450	26	9.4	5.6	286	220	404	311	546	420	679	522	600
1200	600	550	26	10.7	6.4	340	262	480	370	649	499	808	621	600
1500	450	400	34	11.1	6.7	348	265	486	374	656	505	817	628	600
1500	500	450	34	12.0	7.2	376	289	531	409	718	552	893	687	900
1500	600	550	34	13.8	8.3	441	339	622	479	841	647	1047	805	900
1800	450	400	39	12.9	7.8	398	306	562	433	760	585	946	727	900
1800	500	450	39	13.9	8.4	406	312	573	441	775	596	964	742	900
1800	600	550	39	15.9	9.6	509	392	719	553	972	748	1209	930	1200

① We can make custom dimensions, after technical analysis. | Putem executa dimensiuni speciale, în urma unei analize tehnice.



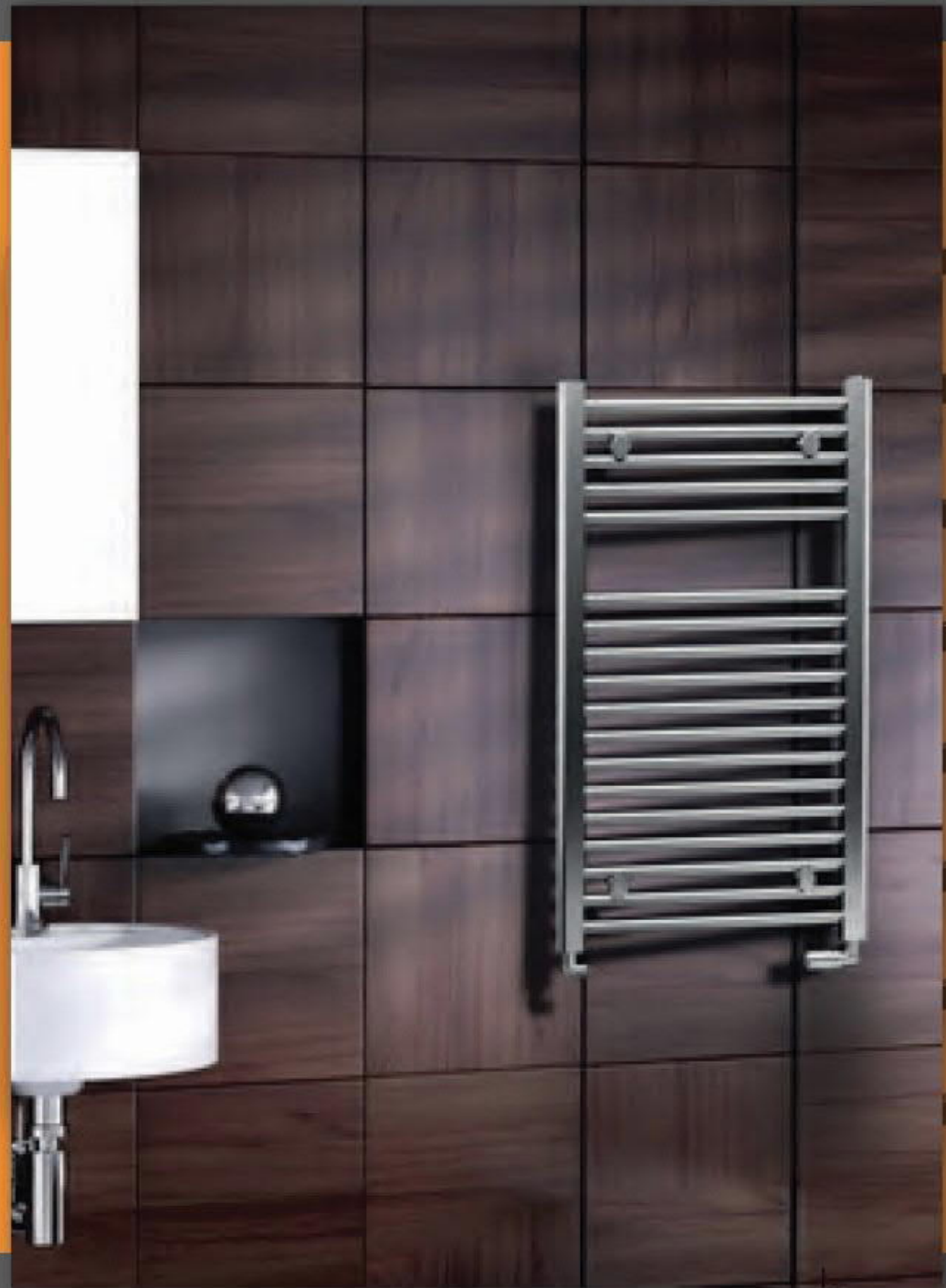
Hydraulic connections/
Conexiuni hidraulice*



② Max. working pressure/Presiune max. de lucru/ 7 bar

③ Max. working temperature/ Temperatura/ max. de lucru/ 90°C

④ Mounting kit included/ Kit montaj inclus/ K04, K1 for K01, K14





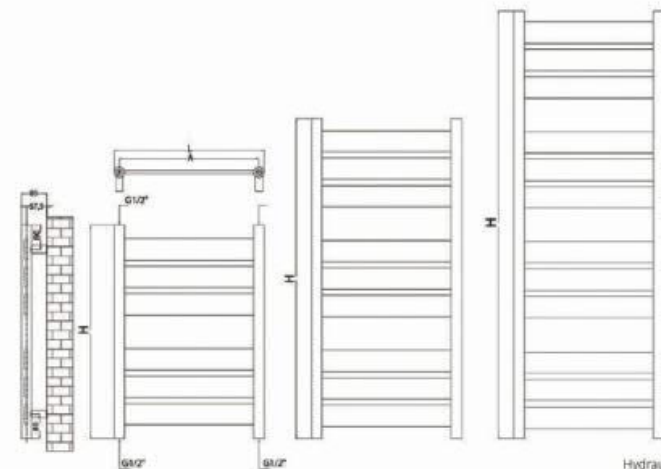
APOLLO

APOLLO is a practical and attractive towel rail radiator. Its rounded columns which support contrasting flat panelled piping make it easy on the eyes. Available in sleek chrome and all RAL colours.

APOLLO este un radiator port-prosop, practic și atractiv. Contrastul dintre colectori rotunzi și elementii ovali creează un efect vizual spectaculos. Este disponibil în finisaj crom și orice culoare RAL.



Height/ Înălțime (H)	Length/ Lățime (L)	Centres/ Interax (A)	No of/ Nr element	Weight/ Greutate	Volume/ Volum	OUTPUT/PUTERE TERMICĂ (watt)								
						Δt=30°C		Δt=40°C		Δt=50°C		Δt=60°C		
700	500	465	6	6.5	2.5	ral	chrome	ral	chrome	ral	chrome	ral	chrome	electrical
1050	500	465	9	9.8	3.7	164	126	232	178	313	241	391	301	300
1400	500	465	12	13	4.9	212	163	299	230	404	311	505	389	500



Hydraulic connections/
Conexiuni hidraulice*



Max. working pressure/Presiune max. de lucru 4 bar



Max. working temperature/ Temperatură max. de lucru 90°C



Mounting kit included/ Kit montaj inclus: K02



51



52

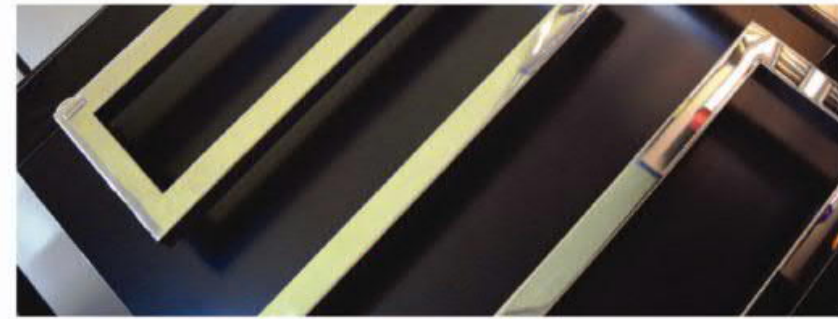




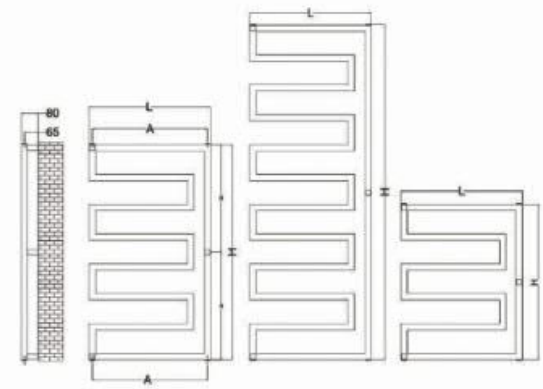
SERA

Modern styled towel rail with its contemporary look and feel. SERA is sure to compliment any modern room. Available in all finishes and also in electric version, SERA can suit any bathroom or kitchen, bringing that designer feel into your home.

Cu designul său modern, SERA completează perfect orice cameră. Disponibil în toate finisajele, SERA este perfect pentru orice bucatărie sau baie, adăugând un plus de stil în orice locuință.



Height/ Înălțime (H)	Length/ Lățime (L)	Centres/ Interax (A)	No of Nr ele- mentj	Weight/ Greu- tate	Volume/ Volum	OUTPUT/PUTERE TERMICĂ (watt)												
						Δt=30°C		Δt=40°C		Δt=50°C		Δt=60°C						
mm	mm	mm	pcs	kg	l	chrome	stainless steel	al	chrome	stainless steel	al	chrome	stainless steel	al	chrome	stainless steel	electrical	
450	580	550	4	3.87	2.10	95	73	70	134	103	99	181	140	134	227	174	168	150
730	580	550	6	5.88	3.19	145	111	107	204	157	151	276	212	204	345	265	256	300
1010	580	550	8	7.89	4.29	194	149	144	274	211	203	370	285	274	463	356	343	300
1570	580	550	12	11.9	6.5	293	225	217	414	318	307	550	430	414	699	538	518	600

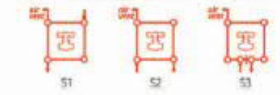


Max. working pressure/Presiune max. de lucru: 10 bar

Max. working temperature/ Temperatura max. de lucru: 90°C

Mounting kit included/ Kit montaj inclus: K24

Hydraulic connections/Conexiuni Hidraulice*







Gas Water Heater



The new degree of comfort.
COMFORT
 YOU CAN DEPEND ON

Vent Hood

Connects the water heater to the venting system. It aids in assisting in the updraft movement of the combustion gases.

Temperature and Pressure Relief Valve

Commonly referred to as the "T&P" valve. This safety device opens to allow water to escape if the tank pressure or temperature becomes excessive.

Cold Water Inlet and Dip Tube

The connection point for incoming cold water. The inlet connects directly to a dip tube which directs the incoming water to the bottom of the tank.

Gas Control/Thermostat

Maintains desired temperature of the water by regulating the flow of fuel to the burner.

Drain Valve

Brass valve that allows the tank to be emptied should service be required.

Thermocouple

Senses the presence or absence of the pilot flame to determine whether it is OK for the gas valve to open.



Plastic Line Nipples/ Heat Traps

Thermoplastic lined nipples impede galvanic corrosion. "Heat trap" nipples also contain a check valve to reduce heat loss between hot water in the tank and cold water pipes.

Exclusive Rheemglas® Porcelain Enamel Tank Lining

Engineered for durability and long tank life.

Anode Rod

The patented R-Tech anode rod protects tank against premature corrosion.

Flue Baffle

Slows air movement through the flue. By keeping the combustion gases in the flue longer, more heat is transferred to the water in the tank.


EverClean™ Self-Cleaning System

This patented system creates a turbulent swirling action that reduces sediment and improves efficiency.

Burner Assembly

Heats the water in the tank by using a flame from either natural gas or liquid propane.



BEST QUALITY 
 MADE IN USA 

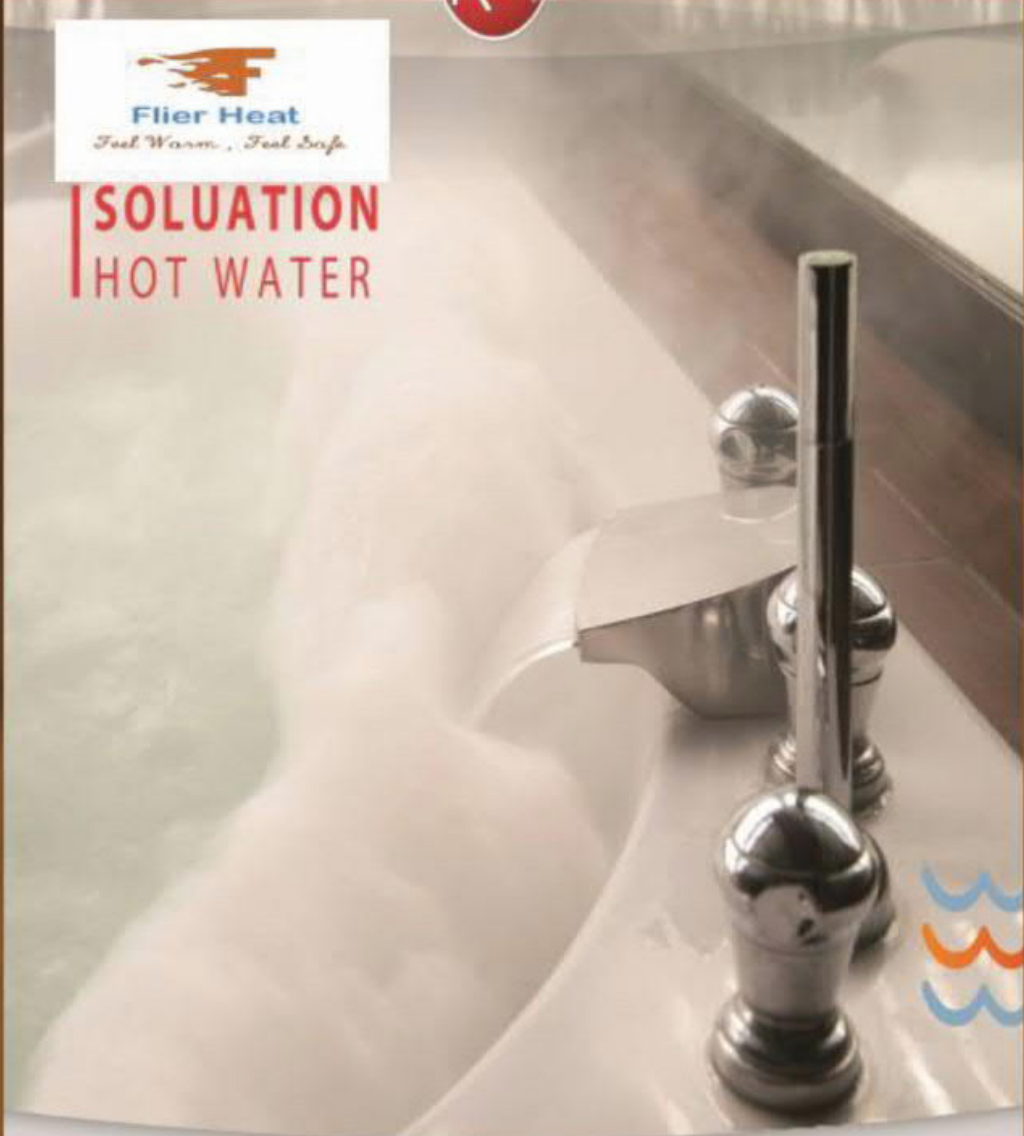


Water | Residential Gas Water Heaters



Flier Heat
Feel Warm. Feel Safe.

**SOLUTION
 HOT WATER**



Water | Residential Gas Water Heaters

Solar Heater Solar Heater

Solar H

Solar H

Solar H

Solar H

Solar H

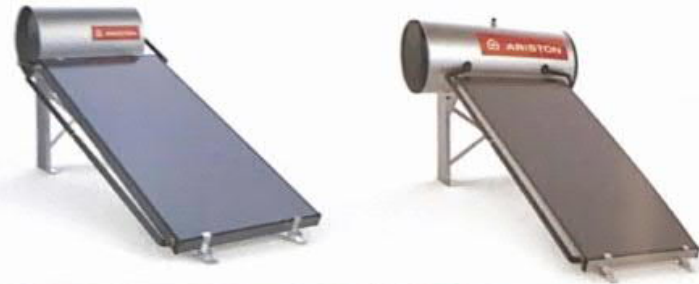
Solar H

Solar Heater Solar Heater

Solar Heater



COMPLETE SYSTEMS



	KAIROS THERMO DR-2				KAIROS THERMO CF-2			
	100-1	150-1	200-1	250-2	150-1	200-1	200-2	300-2
TYPE OF CIRCULATION	natural				natural			
ROOF INSTALLATION	yes				yes			
GROUND AND FLAT ROOF INSTALLATION	yes				yes			
TYPE OF SYSTEM	direct				indirect			
ELECTRO SOLAR VERSION AVAILABLE	yes				yes			
NUMBER OF COLLECTORS	1	1	1	2	1	1	2	2
GROSS AREA (m ²)	1,92				1,96			
EXPANSION VASE	not necessary				not necessary			
SENSYS	not necessary				not necessary			
TANK ENERGY CLASS	-				-			
TANK EMPTY WEIGHT (kg)	34	44	51	61	50	60	60	85
COLLECTOR WEIGHT (kg)	30,6				27			
SOLAR KEYMARK	yes (only collector).				yes			
PAGE	18				20			

KAIROS THERMO CF-2



Indirect flat solar water heater

ADVANCED PERFORMANCE

- / Optimal stratification process to achieve higher performances and a faster heating
- / More hot water thanks new tubes position for 300-2 model

EVERLASTING QUALITY

- / Each component of solar water heater (collector, tank and installation kit) is 100% made to last
- / Solar Keymark certification
- / Total safety guaranteed by solar circuit safety valve and thermostat*, by collector tempered glass and by installation kit robustness
- / Every single component and the complete solar water heater are carefully and strictly tested on quality, efficiency and performances

ITALIAN STYLE

- / Easy installation thanks to "insert and click" connections between collector and hydraulic kit
- / New funnel for an easy filling of solar circuit
- / Wide range of mounting kits to fit each kind of installation
- / Designed & produced in Italy

NEW

*only for electro solar version

Italian Style

Easy installation:

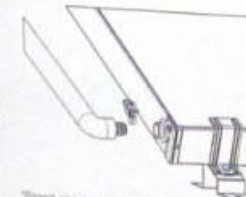
- / Hydraulic Kit and collector are connected in two simple steps:
- Insert the hydraulic pipe in the manifold thanks to double O-ring. Fix them with a metal clip
- / No tools are required, thus reducing the installation time by 25%*

One mounting kit for each installation:

- / Ground/flatroof
- / Pitchedroof

Italian care for details:

- / Designed and produced in Italy
- / Care for details in shape and materials
- / Thermo CF-2 can be integrated beautifully into every type of building or house



*Based on internal measurements

TECHNICAL DATA

		KAIROS CF 200-1
Empty Weight	kg	77
Dimensions LxHxD	mm	1990x665x71
Max operating pressure	bar	1
Efficiency	%	70%
Collector fluid capacity instead of Sensor fluid capacity	l	1
Absorption	%	91
Emission	%	18
Gross area	m ²	1,77
Aperture area instead of input area	m ²	1,73
Absorber area	m ²	1,73
Absorber material		Aluminum
Absorber coating		Blue Selective
Absorber thickness	mm	0,76
gD		4,27
K1	W/m ² K	0,084
K2	W/m ² K	0,084
Absorber tubing material		Copper
Stagnation temperature	°C	20

TECHNICAL FEATURES

	CF 150-1	CF 200-1	CF 200-2	CF 300-2
Installation	Ground or flat/pitched roof			
External cover material	Steel with Zn external coating			
Inner tank material	Titanium enamelled			
Diameter of external connections	1/2" M			
Number of collectors	1	1	2	2
Max pressure for main tank	bar			
Insulation thickness	mm			
Max working temperature for main tank	°C			
Back-up heating element (2 kW)	Optional (standard version included electro solar version)			
Aperture area	m ²	1,77	1,77	3,54
Absorber area	m ²	1,73	1,73	3,46
Capacity of storage tank for domestic hot water	l	153	202	202
Fluid capacity	l	1	1	1
Cylinder empty weight	kg	50	60	60
Dimensions LxHxD	mm	50	60	60
Cylinder empty weight	kg	50	60	60

KAIROS CF

		CF 150-1	CF 200-1	CF 200-2	CF 300-2
Standard version	TR (ground)	3022280	3022281	3022282	3022283
	TT (roof)	3022288	3022289	3022290	3022291
Electrical version	TR (ground)	3022272	3022273	3022274	3022275

Swimming Pool Heating





DIGITAL GAS

POOL AND SPA HEATER



RUGGED-STEEL
CONSTRUCTION

ENERGY
EFFICIENT

EASY TO USE
DIGITAL
CONTROLS

BEST QUALITY 
MADE IN USA

Raypak[®]
A Rheem[®] Company

Anything But Basic

Cabinet

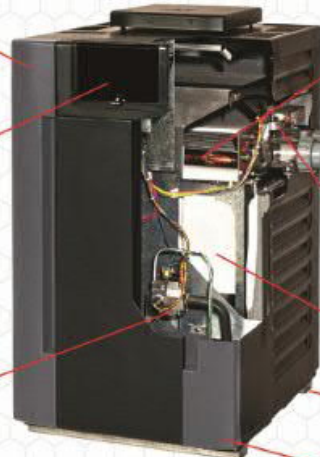
- Outdoor top - (standard)
- Wind-resistant design
- Channels rainwater out
- Textured powder-coat finish
- Optional indoor top

Digital Controls

- Microprocessor-controlled
- Built-in diagnostics
- Back-lit LCD display
- Pool and spa settings
- Lexan cover- with snap closure
- Remote-compatible
- Flame strength meter
- Cycle and run time log
- Transformer output monitor
- Fault history-last 10

Burner Tray

- Easily removable
- Stainless steel burners
- Brass orifices
- Aluminized metals
- Stainless steel heat shield
- Spark-to-pilot ignition
- Soft-opening gas valve



Heat Exchanger

- Integral copper fin tube - (standard)
- Automatic bypass
- Unitherm governor
- Polymer headers
- Stainless steel tube sheet
- Reversible for left-side water connections.
- ASME - (optional)
- Cupro-nickel - (optional)

2" CPVC Connections

High Limits and Controls

- Mounted on the in/out header

Ceramic Fiber Combustion Chamber

- Non-Combustible Base
- Heater can be installed on a combustible surface

Base - Interior Floor

- Stainless steel

120/240V

- Incoming power can be connected to the right or left side.

Model	copper (polymer headers) ASME copper and cupro	cupro-nickel (polymer headers)
	BTUH Input	BTUH Input
206	199,500	180,000
266	266,000	240,000
336	332,500	300,000
406	399,000	360,000



BEST QUALITY 
MADE IN USA

Raypak[®]
A Rheem[™] Company

Ariston Boiler + Plate to Plate heat exchanger

سخان أريستون + مبادل حراري

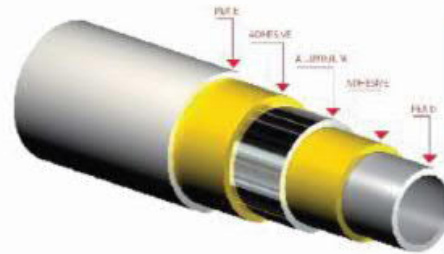
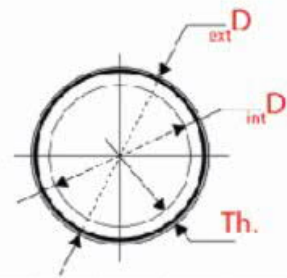


Flier Heat



Underfloor Heating















Under Floor Heating System (المواسير المستخدمة في تأسيس الشبكة (جاكوميني ايطالي)



Pipe (in coils)	Pipe _{int} D (mm)	Pipe _{ext} D (mm)	Pipe th (mm)	Weight (g/m)	Water contained (l/m)	Minimum curve radius* (mm)
16x2	10	12	2	115	0,113	80
18x2	18	14	2	124	0,154	90
20x2	20	16	2	148	0,201	100
26x3	26	20	3	263	0,314	130
32x3	32	26	3	327	0,531	160

*Without pipe-bending spring

Under floor heating

No.	Part	Description	Fig.	Brand
1	Pipe	pipe welding by laser TUBO 16x2 PEX-AL-PEX (AL.D.2mm)		Giacomini
2	Pair of end manifolds for supply	Pair manifold ends DN32, rapid bayonet fitting		Giacomini
3	Pair of end manifolds for return	Pair of end manifold DN32, with bayonet connector		Giacomini
4	Modular manifolds for supply	Modular manifold DN32, rapid bayonet fitting		Giacomini
5	Modular manifolds for return	Modular manifold DN32, with bayonet connection		Giacomini
6	Self-sealing connector	Intermediate connection for manifold - 1"		Giacomini
7	Electrical actuator	Thermo-electric actuator, NC 230 VOLT- R473		Giacomini
8	Ball valve	Ball valve with tailpiece: male X female threads - 1"X1"		Giacomini
9	Fixing clip	Fixing clip for Giacomini pipe		Giacomini
10	Fluid solution	Fluid solution for rendering		Giacomini
11	Adaptor	Synthetic pipe adaptor		Giacomini
12	Wall insulation	Wall insulation		Giacomini
13	Bracket	Bracket for modular Manifolds DN32		Giacomini
14	Manifold cabinet	Manifold cabinet, stove enamelled		Giacomini

Fireplace



JULIET 1500 with TÜV certified

JULIET/1500/TUV

EAN:
5901350073919

Biofireplace with a panoramic vision of fire and a unique polished texture. Placed on the wall, it will add elegance and style to any living or office room.



Technical Specifications

Fuel type	biofuel of biological alcohol
Weight (kg)	31,5
Material	painted steel, inox tainless steel
Width (cm)	150,00
Height (cm)	65,00
Depth (cm)	14,20
TÜV certificate	Yes
Colour	inox, black
Type of biofireplace	hanging
Capacity of bio insert (l)	1,00
The lenght of the fire line (cm)	50
Fuel container (H x W x D) (cm)	5,2 x 30 x 10
Glazing	No

Features

For biofireplaces limits do not exist, such devices do not require complicated installation or connection to the chimney, they are **easy to install and to use**. They can be placed both in a spacious house or a smaller flat.

Biofireplaces are also an excellent solution for interior design. The wide range of products enables to use it in the most original ideas.

They are fired with ecological fuel in the form of liquid, which results **irreal fire**.

NATURAL HEAT

Biofireplace raises the temperature up to several Celsius degrees, depending on the height of the flame and the size of the inside.

100% generated heat is passed on to the room, thanks to which the biofireplace can be an additional source of heating.

COMFORTABLE USE

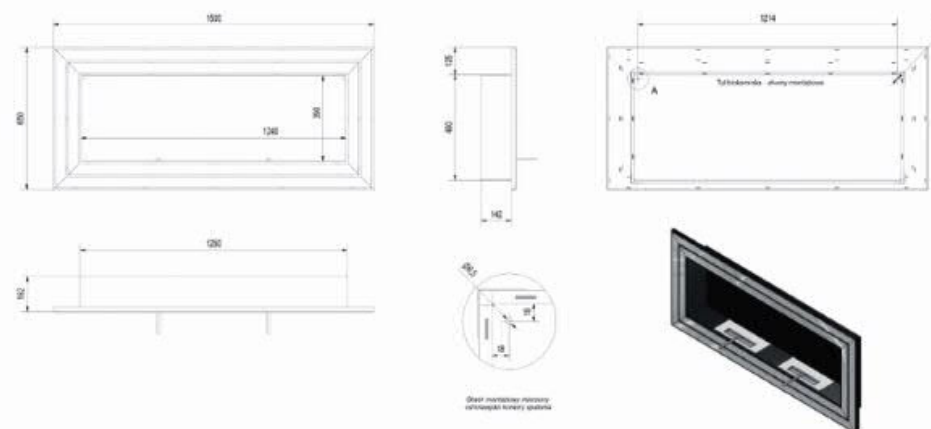
Just pour the biofuel to the level marked in the container. It is possible to regulate and extinguish the flame at any time.

Remember to ventilate the room where the biofireplace is located.

TWO INSTALLATION POSSIBILITIES

Wall-mounted: can be hung on the wall using mounting pins (Included in the set).

Individual housing: can be mounted in a wall recess or a specially built decorative element protruding from the wall.



JULIET 1800 with TÜV certified

JULIET/1800/TUV

EAN:
5901350073896

Biofireplace with a panoramic vision of fire and a unique polished texture. Placed on the wall, it will add elegance and style to any living or office room.



Technical Specifications

Fuel type	biofuel of biological alcohol
Weight (kg)	38,0
Material	painting steel, inox tainless steel
Width (cm)	180,00
Height (cm)	65,00
Depth (cm)	14,20
TÜV certificate	Yes
Colour	inox, black
Type of biofireplace	hanging
Capacity of bio insert (l)	1,50
The lenght of the fire line (cm)	75
Fuel container (H x W x D) (cm)	5,2 x 30 x 10
Glazing	No

Features

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COMFORTABLE USE

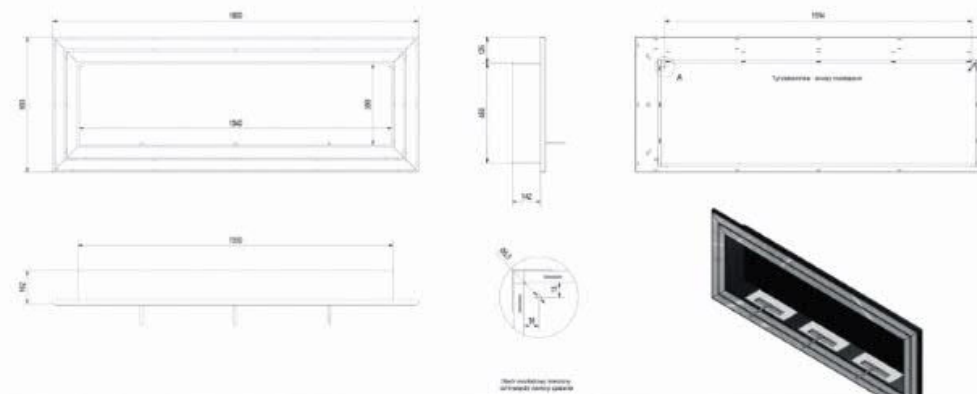
Just pour the biofuel to the level marked in the container. It is possible to regulate and extinguish the flame at any time.

Remember to ventilate the room where the biofireplace is located.

TWO INSTALLATION POSSIBILITIES

Wall-mounted: can be hung on the wall using mounting pins (included in the set).

Individual housing: can be mounted in a wall recess or a specially built decorative element protruding from the wall.



DELTA 2 black QUBE with TÜV certified

DELTA2/CZARNY/QUBE/TUV

EAN:
5901350073476

Biofireplace with a simple and modern look, that is the original decoration of any interior. The elegant form allows you to highlight the decor of both the living room and bedroom.



Technical Specifications

Fuel type	biofuel of biological alcohol
Weight (kg)	11,9
Material	painted steel, inox tainless steel
Width (cm)	90,00
Height (cm)	40,00
Depth (cm)	14,20
TÜV certificate	Yes
Colour	inox, black
Type of biofireplace	hanging
Capacity of bio insert (l)	0,50
The lenght of the fire line (cm)	25
Fuel container (H x W x D) (cm)	5,2 x 30 x 10
Glazing	No

Features

For biofireplaces limits do not exist, such devices do not require complicated installation or connection to the chimney, they are **easy to install and to use**. They can be placed both in a spacious house or a smaller flat.

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NATURAL HEAT

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COMFORTABLE USE

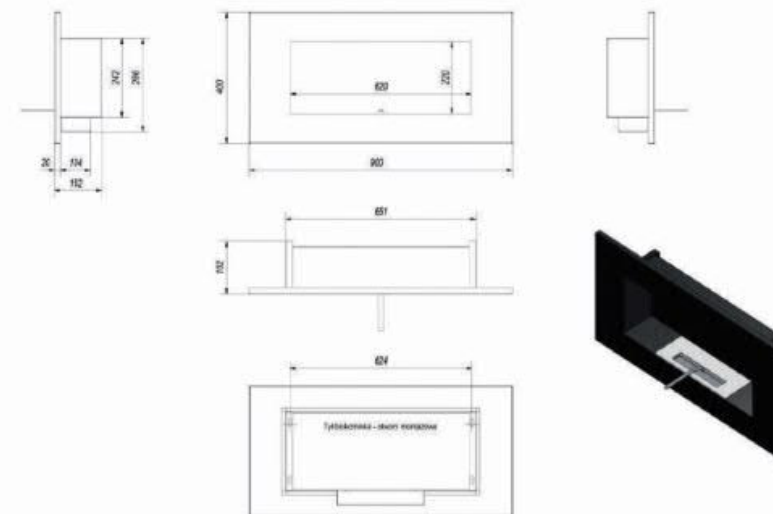
Just pour the biofuel to the level marked in the container. It is possible to regulate and extinguish the flame at any time.

Remember to ventilate the room where the biofireplace is located.

TWO INSTALLATION POSSIBILITIES

Wall-mounted: can be hung on the wall using mounting pins (included in the set).

Individual housing: can be mounted in a wall recess or a specially built decorative element protruding



DELTA 2 inox with TÜV certified

DELTA2/CZARNY/SZLIF/TUV

EAN:
5901350073483

Biofireplace with a simple and modern look that is the original decoration of any interior. The elegant form allows you to highlight the decor of both the living room and bedroom.



Technical Specifications

Fuel type	biofuel of biological alcohol
Weight (kg)	12,8
Material	painted steel, inox tainless steel
Width (cm)	90,00
Height (cm)	40,00
Depth (cm)	14,20
TUV certificate	Yes
Colour	inox
Type of biofireplace	hanging
Capacity of bio insert (l)	0,50
The lenght of the fire line (cm)	25
Fuel container (H x W x D) (cm)	5,2 x 30 x 110
Glazing	No

Features

For biofireplaces limits do not exist, such devices do not require complicated installation or connection to the chimney, they are **easy to install and to use**. They can be placed both in a spacious house or a smaller flat.

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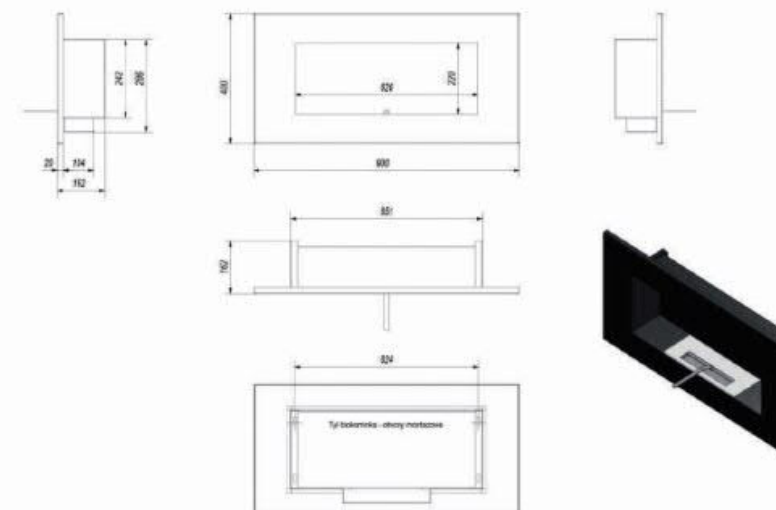
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Remember to ventilate the room where the biofireplace is located.

TWO INSTALLATION POSSIBILITIES

Wall-mounted: can be hung on the wall using mounting pins (included in the set).

Individual housing: can be mounted in a wall recess or a specially built decorative element protruding



GOLF black HORIZONTAL with TÜV certified

GOLF/CZARNY/HORIZONTAL/TUV

EAN:
5901350079667

Biofireplace with a simple and modern look that is the original decoration of any interior. The elegant form allows you to highlight the decor of both the living room and bedroom.



Technical Specifications

Fuel type	biofuel of biological alcohol
Weight (kg)	6,0
Material	painted steel, inox tainless steel
Width (cm)	64,80
Height (cm)	37,40
Depth (cm)	14,40
TÜV certificate	Yes
Colour	inox, black
Type of biofireplace	hanging
Capacity of bio insert (l)	0,20
The length of the fire line (cm)	15
Fuel container (H x W x D) (cm)	5,2 x 20 x 7

Features

For biofireplaces limits do not exist, such devices do not require complicated installation or connection to the chimney, they are **easy to install and to use**. They can be placed both in a spacious house or a smaller flat.

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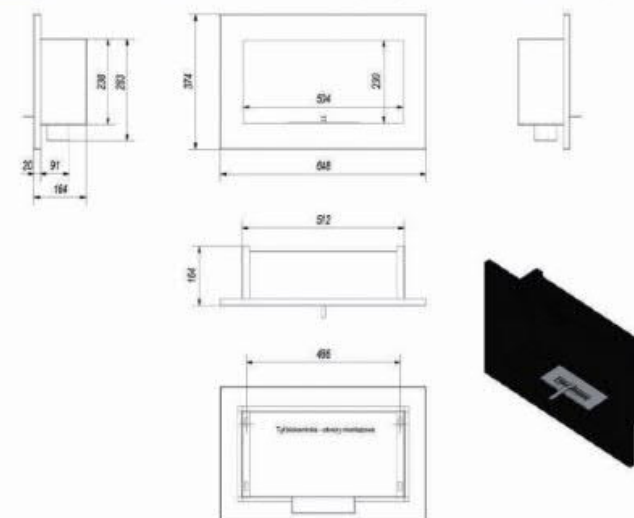
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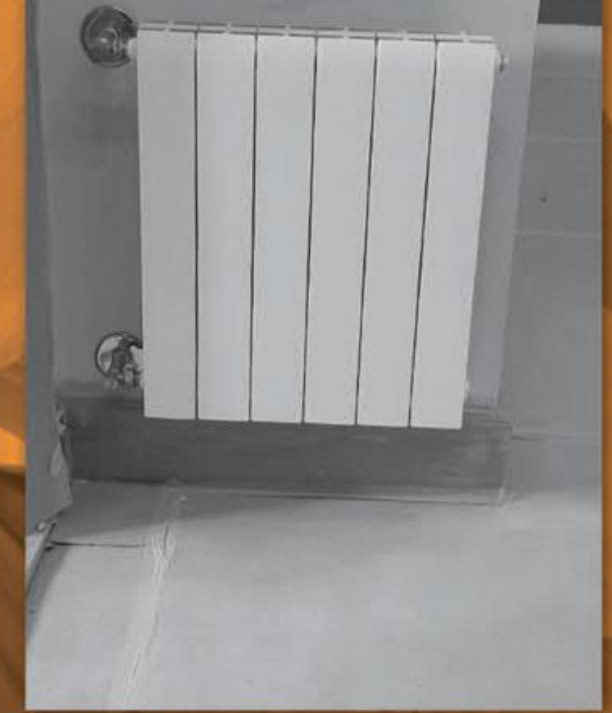
TWO INSTALLATION POSSIBILITIES

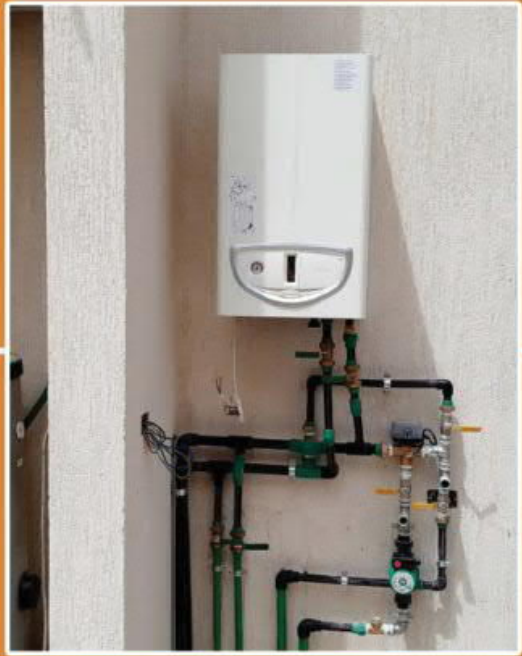
Wall-mounted: can be hung on the wall using mounting pins (included in the set).

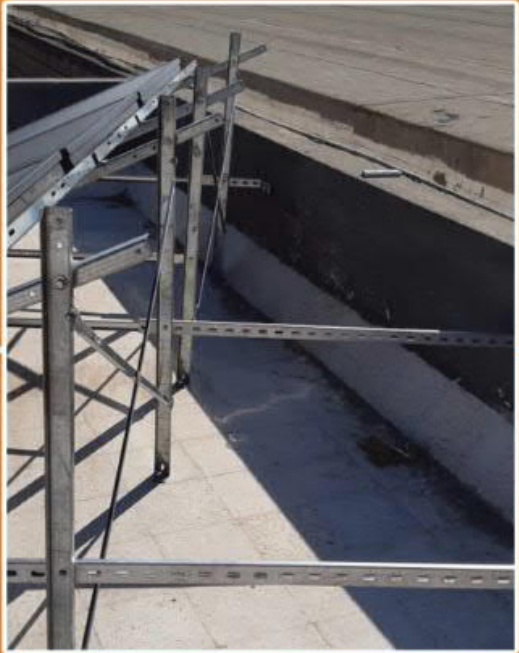
Individual housing: can be mounted in a wall recess or a specially built decorative element protruding



Previous Work







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<http://flierheat.com/>

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