AQUAFLAM®

Aquaflam
Wood boiler stoves and fireplace inserts

choose your colour...

black

grey

brown - velvet

cream

Easy to connect
Water tappings from both sides + 2 outputs for connecting sensors

Firebrick-free technology
Due to the absence of a fire-brick lining, there is a better transfer of heat to the exchanger.
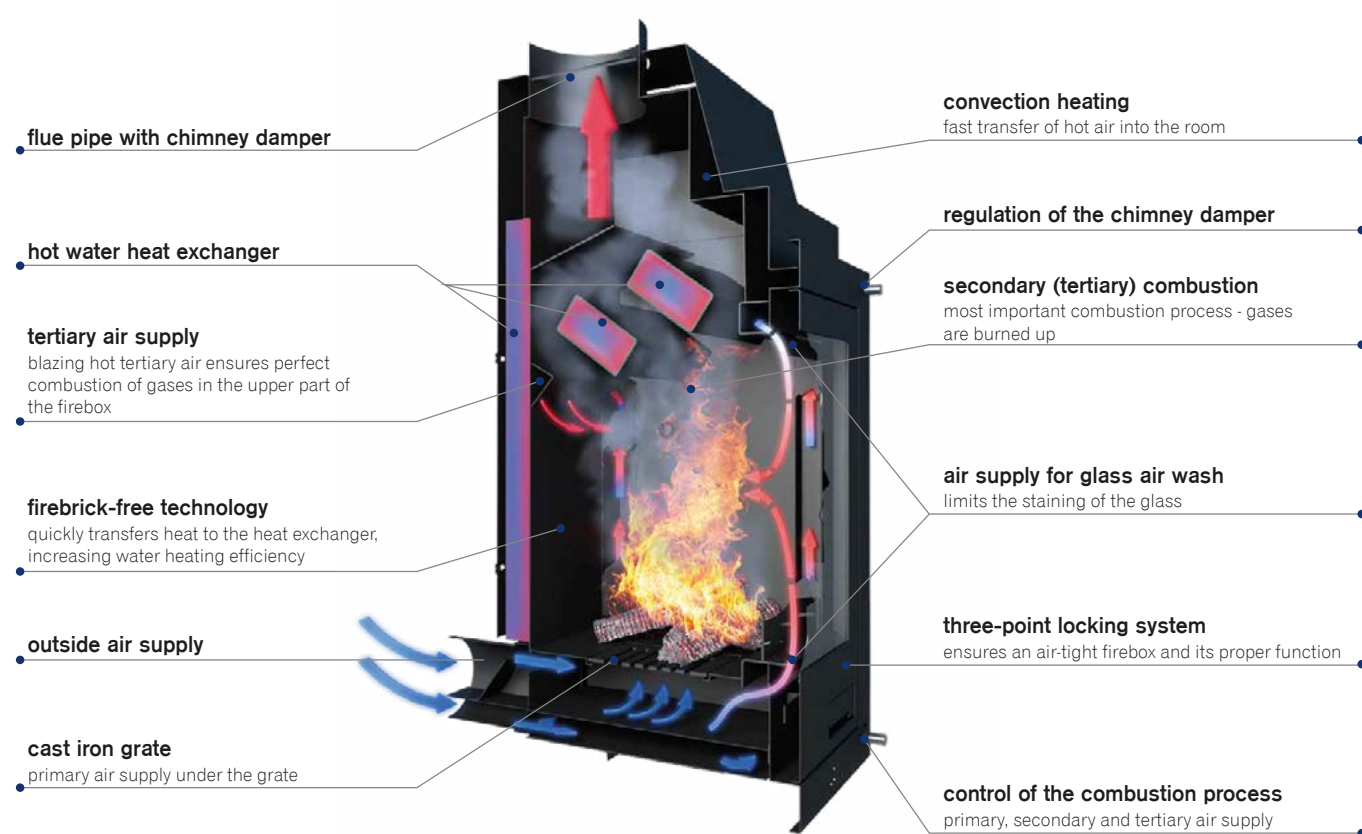
Air supply damper
Damper for regulating air supply / 3 regulation options available

AQUAFLAM boiler stoves and fireplace inserts
meet the strictest European standards: BImSchV – Stufe 2, Ecodesign

Technical cross section
Aquaflam ®

flue pipe with chimney damper

hot water heat exchanger

tertiary air supply
blazing hot tertiary air ensures perfect combustion of gases in the upper part of the firebox

firebrick-free technology
quickly transfers heat to the heat exchanger, increasing water heating efficiency

outside air supply

cast iron grate
primary air supply under the grate

convection heating
fast transfer of hot air into the room

regulation of the chimney damper

secondary (tertiary) combustion
most important combustion process - gases are burned up

air supply for glass air wash
limits the staining of the glass

three-point locking system
ensures an air-tight firebox and its proper function

control of the combustion process
primary, secondary and tertiary air supply

eco design

CB

Clean Burning

Aquaflam
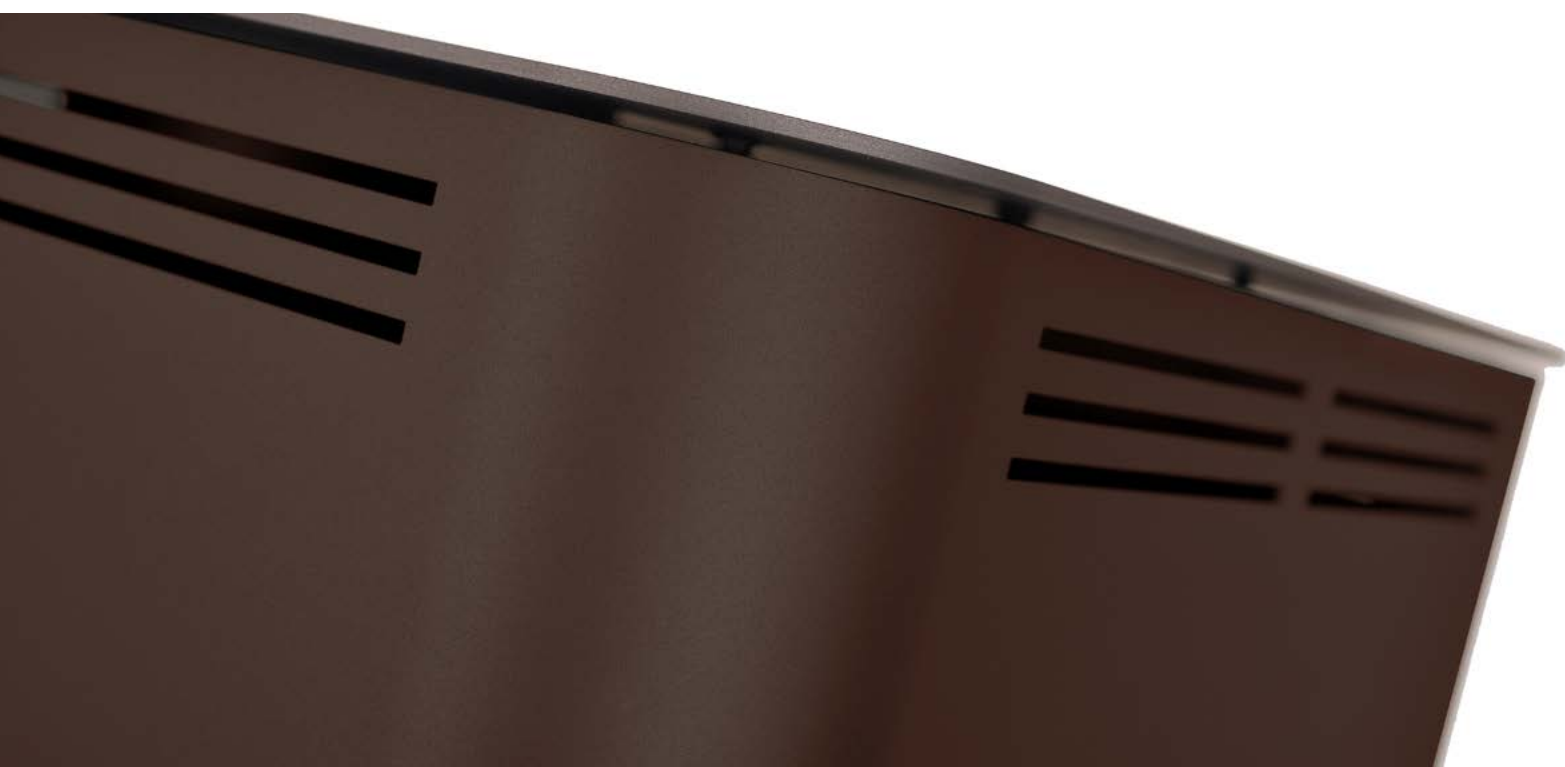
High quality boiler stoves and fireplace inserts

Secondary combustion
ensures clean glass and perfect combustion of gases thanks to a special supply for secondary and tertiary air
Primary air supply
basic supply that is necessary when making the fire and which comes in under the grate

1 Cleanless of glass is ensured by the dual air wash

2 The glass is supplied by Germany´s largest manufacturer

3 Prismatic, panoramic glass is manufactured from a single piece

4 Types of glass: flat, panoramic, prismatic

fireplace boiler insert

aquaflam 7

eco design

CB
Clean Burning

panoramic - curved glass
prismatic - bent glass

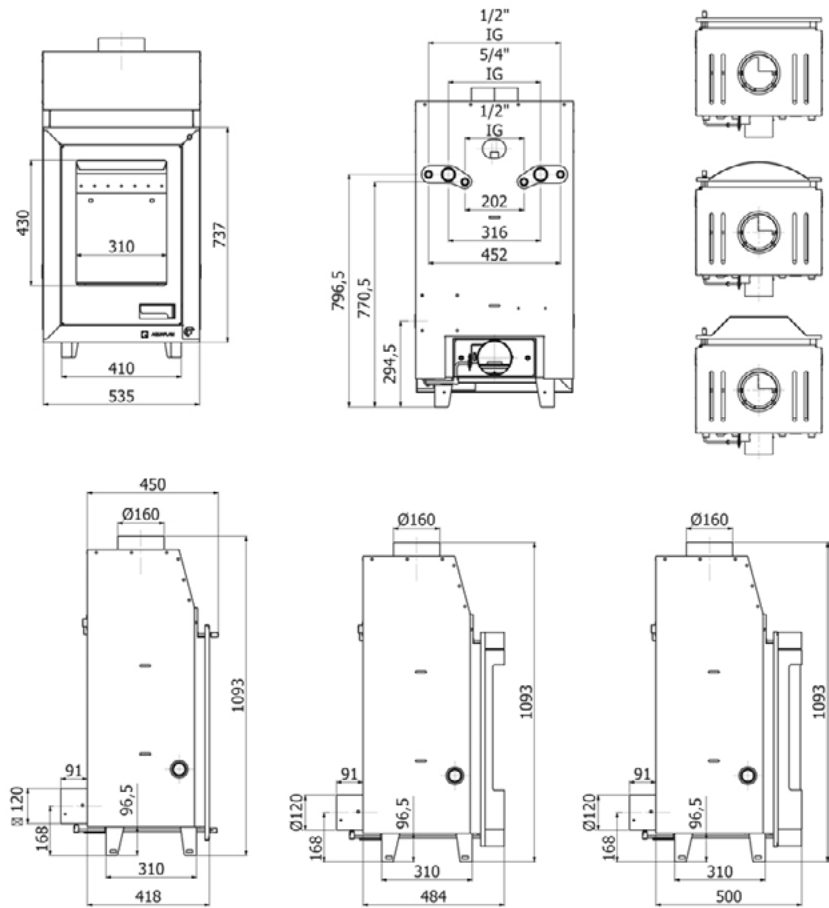| technical parameters	7 kW
Nominal power	kW	7
Nominal power into water	kW	5
Nominal power range |kW	3 - 10
Power into water range	kW	3 - 7
Stove efficiency	%	79.1
Operation draught	Pa	12
Smoke flue diameter	mm	160
Log lenght	cm	35
Heating value	m³	60 - 200
Weight	kg	130
CO emissions (at 13% O²)	%	0.1
Average flue gas temperature	°C	247
Maximum operating pressure	bar	2.5
Warranty	5 years

+ Primary, secondary and tertiary air supply

+ Secondary - perfect combustion

+ Dual air wash

+ Glass wash - glass is always clean

+ Option to connect air from the outside

+ Demountable frame before installation

+ Regulation (manual/electronic/automatic)

+ Ashtray

+ Extra long life gasket cord

stand aquaflam 7

flat

430
310
737
410
535

1/2" IG
5/4" IG
1/2" IG
202
316
452
796,5
770,5
294,5

450
Ø160
1093
91
Ø120
168
96,5
310
418

Ø160
1093
91
Ø120
168
96,5
310
484

Ø160
1093
91
Ø120
168
96,5
310
500

fireplace boiler insert

aquaflam 12

eco design

CB
Clean Burning

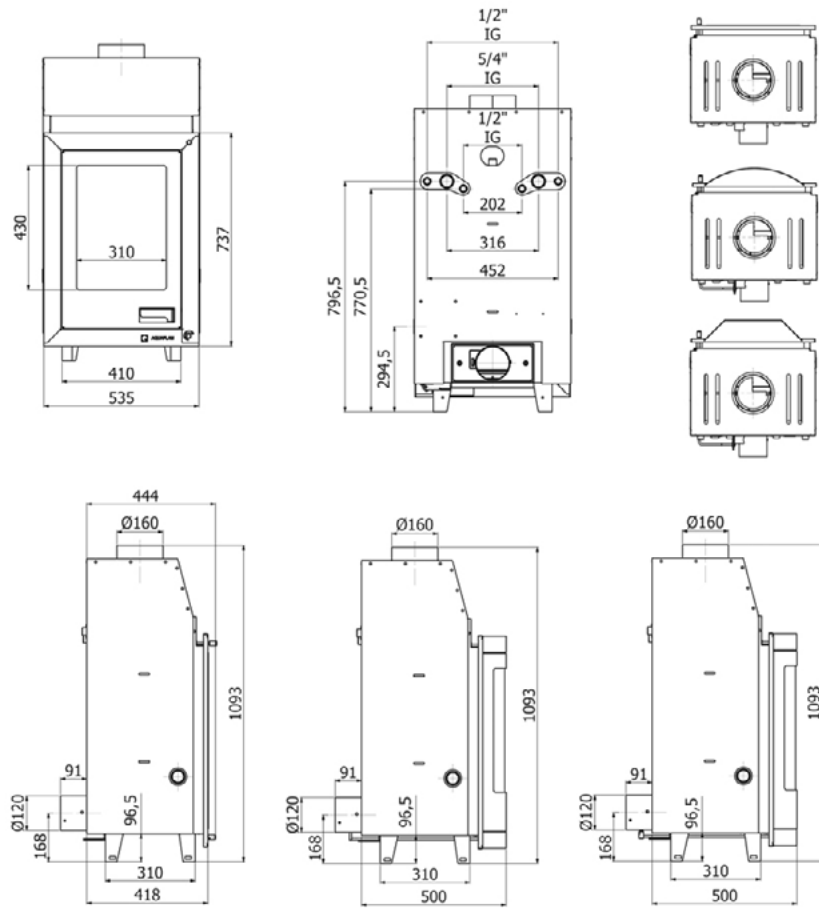| technical parameters	12 kW
Nominal power | kW	12
Nominal power into water | kW	10
Nominal power range |kW	8 - 16
Power into water range | kW	8 - 12
Stove efficiency | %	79.1
Operation draught | Pa	12
Smoke flue diameter | mm	160
Log lenght | cm	35
Heating value | m³	160 - 320
Weight | kg	136
CO emissions (at 13% O²) | %	0.1
Average flue gas temperature | °C	247
Maximum operating pressure | bar	2.5
Warranty	5 years

+ Primary, secondary and tertiary air supply

+ Secondary - perfect combustion

+ Dual air wash

+ Glass wash - glass is always clean

+ Option to connect air from the outside

+ Demountable frame before installation

+ Regulation (manual/electronic/automatic)

+ Ashtray

+ Extra long life gasket cord

panoramic - curved glass
prismatic - bent glass

stand aquaflam 12

flat

produced by HS Flamingo s.r.o.

www.hsflamingo.com

fireplace boiler insert

eco design

aquaflam 17

CB
Clean Burning

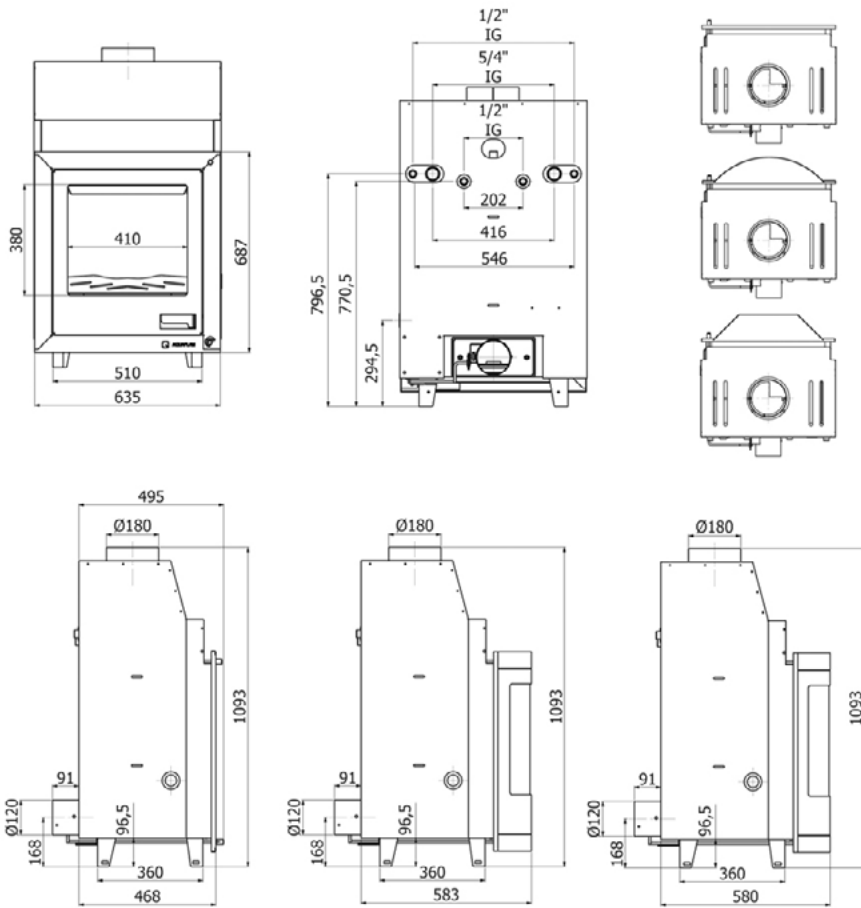| technical parameters	17 kW
Nominal power	kW	17
Nominal power into water	kW	14
Nominal power range |kW	13 - 21
Power into water range	kW	12 -16
Stove efficiency	%	79
Operation draught	Pa	12
Smoke flue diameter	mm	180
Log lenght	cm	45
Heating value	m³	260 - 420
Weight	kg	151
CO emissions (at 13% O²)	%	0.1
Average flue gas temperature	°C	255
Maximum operating pressure	bar	2.5
Warranty	5 years

+ Primary, secondary and tertiary air supply

+ Secondary - perfect combustion

+ Dual air wash

+ Glass wash - glass is always clean

+ Option to connect air from the outside

+ Demountable frame before installation

+ Regulation (manual/electronic/automatic)

+ Ashtray

+ Extra long life gasket cord

panoramic - curved glass
prismatic - bent glass

stand aquaflam 17

flat

www.hsflamingo.com

fireplace boiler insert

eco design

aquaflam 25

CB
Clean Burning

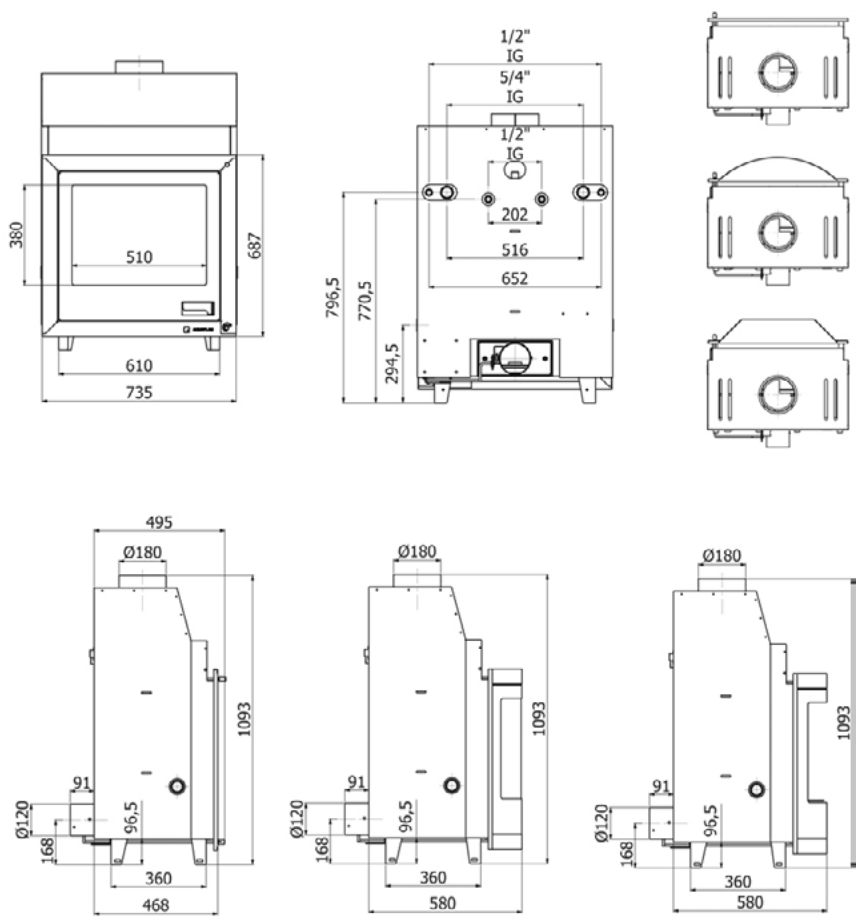| technical parameters	25 kW
Nominal power | kW	25
Nominal power into water | kW	21
Nominal power range |kW	21 - 30
Power into water range | kW	19 - 23
Stove efficiency | %	78
Operation draught | Pa	12
Smoke flue diameter | mm	180
Log lenght | cm	55
Heating value | m³	420 - 600
Weight | kg	214
CO emissions (at 13% O²) | %	0.1
Average flue gas temperature | °C	278
Maximum operating pressure | bar	2.5
Warranty	5 years

+ Primary, secondary and tertiary air supply

+ Secondary - perfect combustion

+ Dual air wash

+ Glass wash - glass is always clean

+ Option to connect air from the outside

+ Demountable frame before installation

+ Regulation (manual/electronic/automatic)

+ Ashtray

+ Extra long life gasket cord

panoramic - curved glass
prismatic - bent glass

stand aquaflam 25

flat

Technical dimension drawings and product installation photograph.

AQUAFLAM ®

radiators

wash basin (mains water)

communications cable
(regulation, pumps, bivalent heat so...

**AQUAFLAM
regulation**

**AQUAFLAM
boiler insert**

cold h...

Advantages of Aquaflam inserts:

- heat output options (kW): 7 | 12 | 17 | 25
- effective double **glass air wash** using preheated air
- **secondary combustion**
- **outdoor air supply** (primary, secondary and tertiary air supply)
- **fire-brick-free technology** (larger-area heat transfer to heat exchanger)
- a **cooling loop** in all options
- **glazing types:** straight, panoramic, prismatic (bent)
- flap for **regulating chimney** draught
- the inserts meet **the most stringent CE norms**
- 5-year warranty

HS Flamingo ®

Wood boiler stoves and inserts
Aquaflam

Today, a hot water heating system is becoming an increasingly popular heating method by which a fireplace can be used for heating the entire house. An Aquaflam wood stove or insert will provide you with effective heating of the entire house while unlocking the magic of a flickering flame directly in your living room.

heat storage tank
(for heating and mains water)

bivalent heat source
(electric boiler, gas boiler)

urce)

warm heating water

eating water

Clean Burning

eco design

wood boiler stove

eco design

Clean Burning

aquaflam 7

technical parameters	7 kW
Nominal power	kW	7
Nominal power into water	kW	5
Nominal power range	kW	3 - 10
Power into water range	kW	3 - 7
Stove efficiency	%	79.1
Operation draught	Pa	12
Smoke flue diameter	mm	160
Log lenght	cm	35
Heating value	m^3	60 - 200
Weight	kg	165
CO emissions (at 13% O^2)	%	0.1
Average flue gas temperature	°C	247
Maximum operating pressure	bar	2.5
Warranty	5 years

+ Primary, secondary and tertiary air supply

+ Secondary - perfect combustion

+ Dual air wash

+ Glass wash - glass is always clean

+ Option to connect air from the outside

+ Demountable frame before installation

+ Regulation (manual/electronic/automatic)
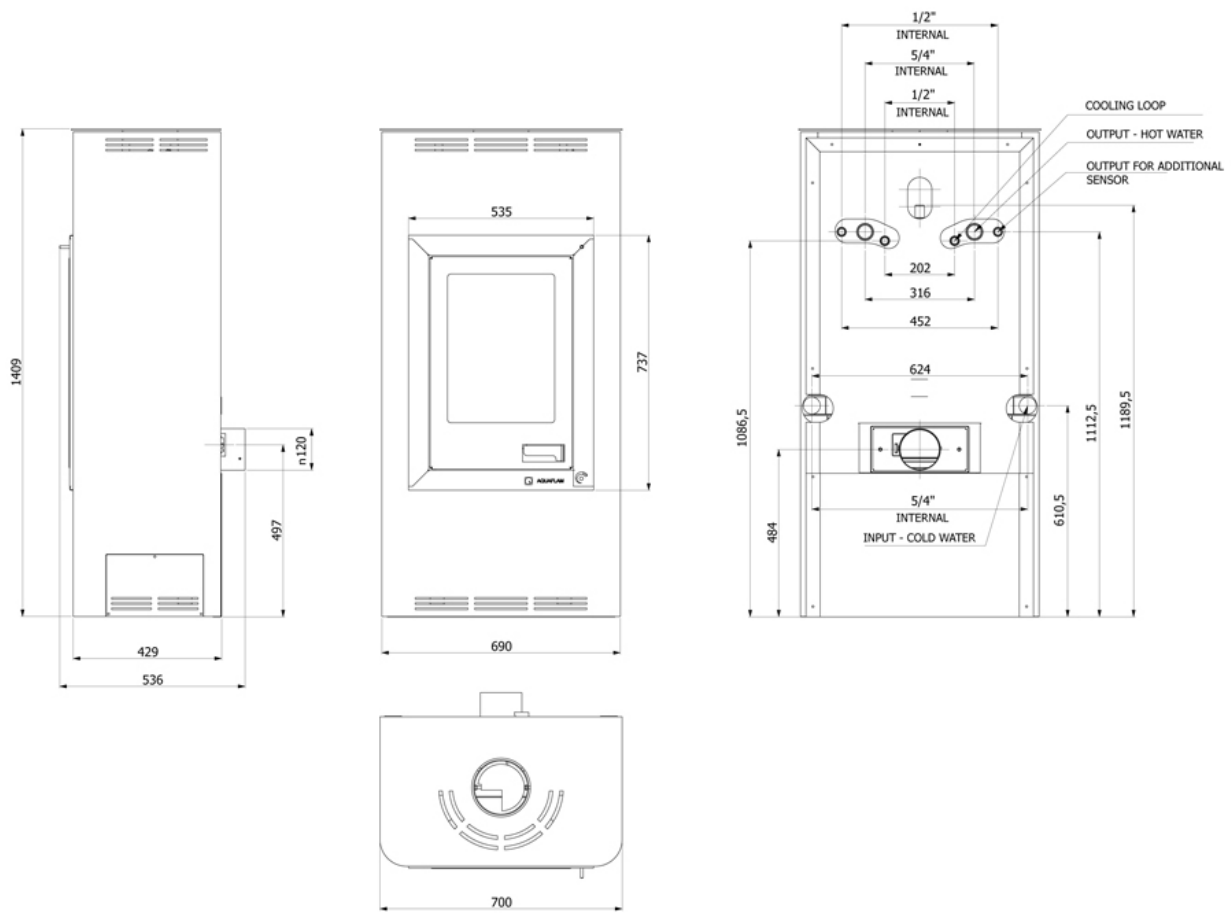
+ Ashtray

+ Extra long life gasket cord

black	cream	brown - velvet

grey

www.hsflamingo.com

1409

497

n120

429

536

535

737

690

700

1/2" INTERNAL
5/4" INTERNAL
1/2" INTERNAL

COOLING LOOP
OUTPUT - HOT WATER
OUTPUT FOR ADDITIONAL SENSOR

202
316
452

624

1086,5

484

1112,5

610,5

1189,5

5/4" INTERNAL
INPUT - COLD WATER

wood boiler stove

aquaflam 12

eco design

CB
Clean Burning

technical parameters	12 kW
Nominal power	kW	12
Nominal power into water	kW	10
Nominal power range	kW	8 - 16
Power into water range	kW	8 - 12
Stove efficiency	%	79.1
Operation draught	Pa	12
Smoke flue diameter	mm	160
Log lenght	cm	35
Heating value	m³	160 - 320
Weight	kg	175
CO emissions (at 13% O_2)	%	0.1
Average flue gas temperature	°C	247
Maximum operating pressure	bar	2.5
Warranty	5 years

+ Primary, secondary and tertiary air supply

+ Secondary - perfect combustion

+ Dual air wash

+ Glass wash - glass is always clean

+ Option to connect air from the outside

+ Demountable frame before installation

+ Regulation (manual/electronic/automatic)

+ Ashtray
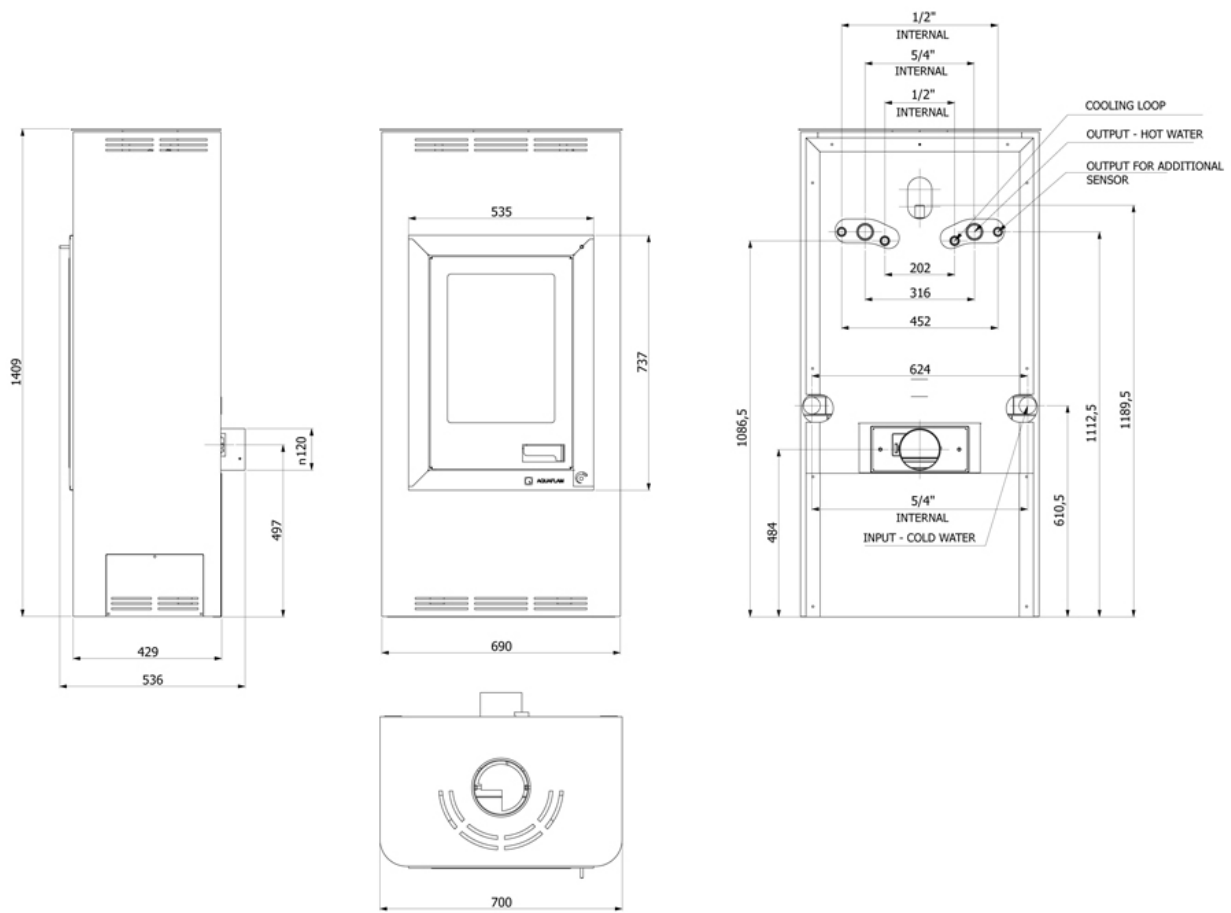
+ Extra long life gasket cord

grey   black   cream

brown - velvet

produced by HS Flamingo s.r.o.   www.hsflamingo.com

1/2"
INTERNAL

5/4"
INTERNAL

1/2"
INTERNAL

COOLING LOOP

OUTPUT - HOT WATER

OUTPUT FOR ADDITIONAL
SENSOR

1409

n120

497

536

429

535

737

690

700

202

316

452

624

1086,5

1112,5

1189,5

484

610,5

5/4"
INTERNAL

INPUT - COLD WATER

wood boiler stove

eco design

CB

Clean Burning

aquaflam 17

technical parameters	17 kW
Nominal power | kW	17
Nominal power into water | kW	14
Nominal power range |kW	13 - 21
Power into water range | kW	12 -16
Stove efficiency | %	79
Operation draught | Pa	12
Smoke flue diameter | mm	180
Log lenght | cm	45
Heating value | m^3	260 - 420
Weight | kg	207
CO emissions (at 13% O^2) | %	0.1
Average flue gas temperature | °C	255
Maximum operating pressure | bar	2.5
Warranty	5 years

+ Primary, secondary and tertiary air supply

+ Secondary - perfect combustion

+ Dual air wash

+ Glass wash - glass is always clean

+ Option to connect air from the outside

+ Demountable frame before installation

+ Regulation (manual/electronic/automatic)

+ Ashtray

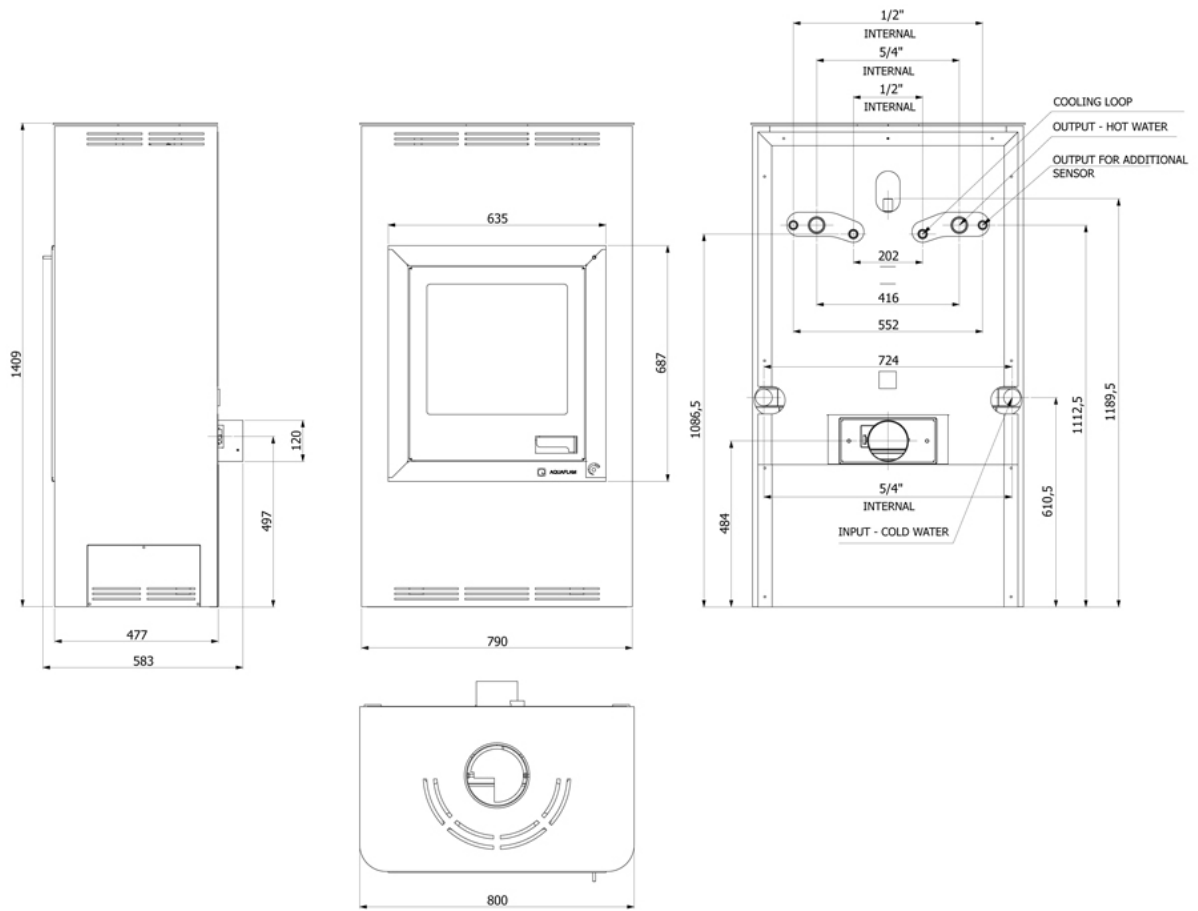+ Extra long life gasket cord

brown - velvet   grey   black

cream

www.hsflamingo.com

1409
477
583
497
120

635
687
790

1/2" INTERNAL
5/4" INTERNAL
1/2" INTERNAL
COOLING LOOP
OUTPUT - HOT WATER
OUTPUT FOR ADDITIONAL SENSOR
202
416
552
724
1086,5
1112,5
1189,5
610,5
484
5/4" INTERNAL
INPUT - COLD WATER

800

wood boiler stove

eco design

Clean Burning

aquaflam 25

technical parameters	25 kW
Nominal power | kW	25
Nominal power into water | kW	21
Nominal power range | kW	21 - 30
Power into water range | kW	19 - 23
Stove efficiency | %	78
Operation draught | Pa	12
Smoke flue diameter | mm	180
Log lenght | cm	55
Heating value | m³	420 - 600
Weight | kg	228
CO emissions (at 13% O_2) | %	0.1
Average flue gas temperature | °C	278
Maximum operating pressure | bar	2.5
Warranty	5 years

+ Primary, secondary and tertiary air supply

+ Secondary - perfect combustion

+ Dual air wash

+ Glass wash - glass is always clean

+ Option to connect air from the outside

+ Demountable frame before installation

+ Regulation (manual/electronic/automatic)

+ Ashtray

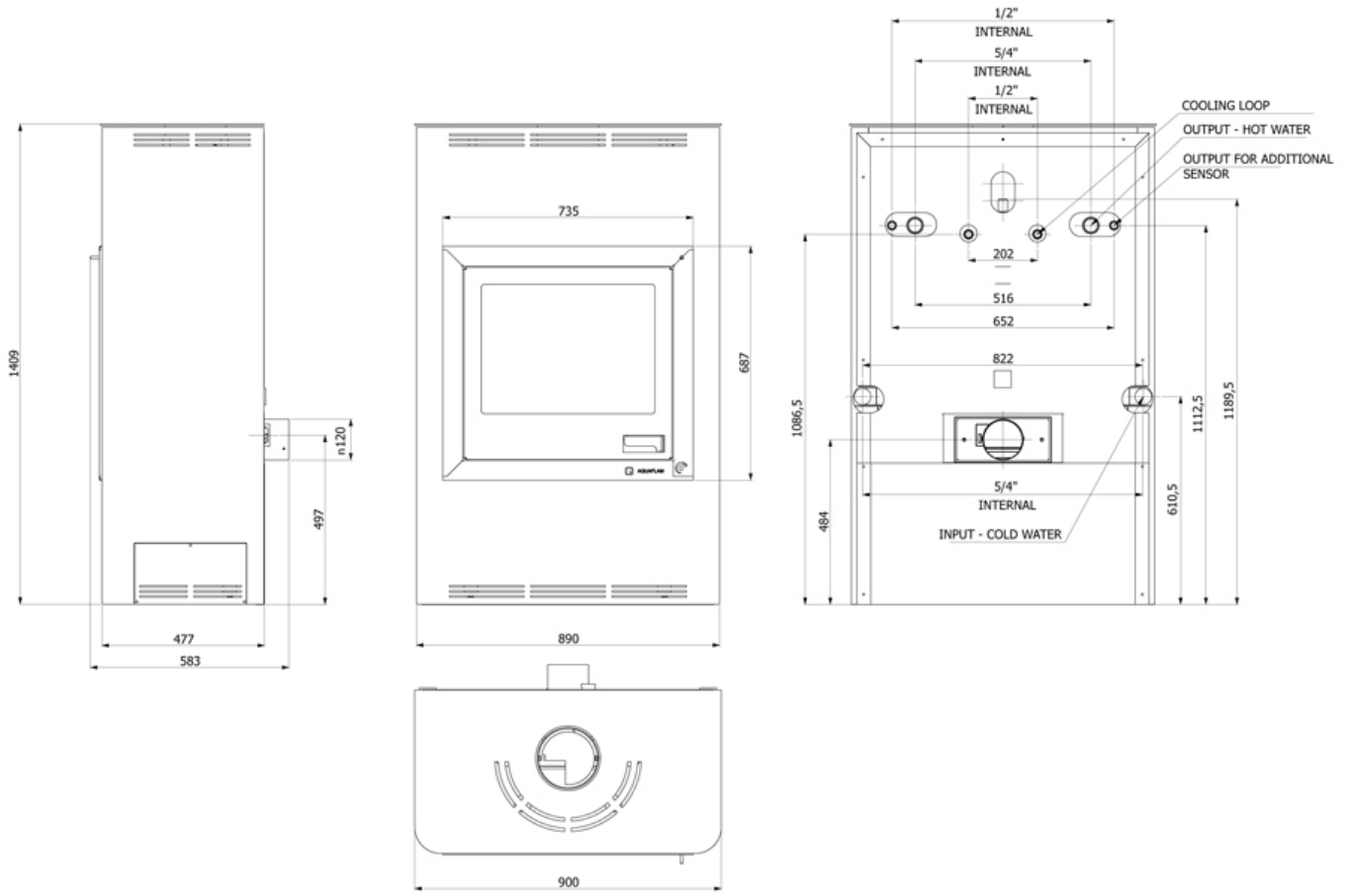+ Extra long life gasket cord

cream   brown - velvet   grey

black

produced by HS Flamingo s.r.o.

www.hsflamingo.com

Technical drawings:

Side view:
- 1409
- 497
- n120
- 477
- 583

Front view:
- 735
- 687
- 890

Top view:
- 900

Rear view / connections:
- 1/2" INTERNAL
- 5/4" INTERNAL
- 1/2" INTERNAL
- COOLING LOOP
- OUTPUT - HOT WATER
- OUTPUT FOR ADDITIONAL SENSOR
- 202
- 516
- 652
- 822
- 1086,5
- 1112,5
- 1189,5
- 484
- 610,5
- 5/4" INTERNAL
- INPUT - COLD WATER

fireplace surrounds

aquaflam
dayno

tech. parameters	7/12	17	25
Dayno			
Weight | kg	101,5	104,5	110
polished parts	natural polished marble DAYNO REALE		
Warranty		180	

size 7/12
size 17
size 25

fireplace surrounds

aquaflam
thassos

tech. parameters	7/12	17	25
Thassos			
Weight | kg	98,5	103,5	110
polished parts		natural marble THASSOS	
		natural granite ABSOLUT BLACK	
Warranty		180	

size 7/12
size 17
size 25

Wood boiler stove and fireplace inserts
Aquaflam - safeguards

Safeguards against overheating If the temperature rises and there is a danger of overheating this will lead to an acute growth in thepressure in the exchanger. In order to avoid damaging it, we must ensure that overheating does not occur in the fireplace. We can prevent this using a safety valve, cooling loop, backup source or by the draining of water to the sewage system with a subsequent intake from the water supply system. However, if the intake of water is dependent on electricity, we recommend that you purchase a backup power source (UPS).

Safeguards gas explosions

If the damper is in the closed position it will prevent the tertiary air inlet from being completely closed. Thus, if it is completely closed, a minimal amount of air still flows into the combustion chamber. This safeguard protects the user against an explosion of the built up gasses.
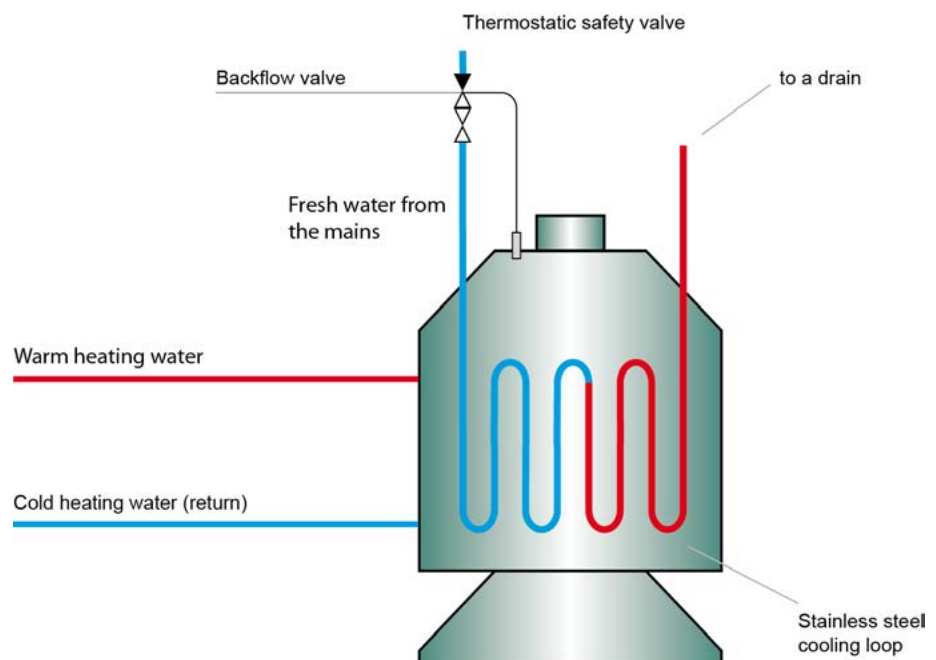
Safeguards against temperature

As soon as the electronic damper sensor registers an increased temperature in the heat exchanger, the dampershuts automatically and so reduces the amount of combustion air to a minimum. (Available only on models with the basic or automated regulation).

Wood boiler stoves and fireplace inserts
Aquaflam - connection

A professional installation is very important for the system to function properly and to ensure its long lifetime.

The heating system must be equipped with the prescribed elements, which will ensure safe operation. The entire system must be separated into a short and long circuit, so that the lifetime of the heat exchanger is not threatened. If the temperature of the water in system is too low, corrosion results and the lifetime of the system is reduced. Furthermore, it is necessary to secure the system against overheating. All the basic versions of the Aquaflam wood stoves have this safety element. It consists of a cooling loop, which thanks to a thermostatic valve, cools the water in the heat exchanger.

1. Communication cable (for automatic control
2. Cold heating water returning to the insert (return)
3. Warm heating water from the insert
4. Ball valve
5. Pump (recommended with backup power source)
6. Thermostatic three-way valve
7. Backflow valve
8. Safety valve
9. Bivalent heat source (electric boiler, gas boiler

10. Drain outlet for safety valve
11. Filter box
12. Inspection valve
13. Expansion vessel
14. Thermal storage tank (for heating and utility water)
15. Fresh water supply from the mains
16. Warm utility water (sink)
17. Warm heating water (radiators)
18. Cold heating water returning from radiators

Automatic regulation

Automatic regulation controls the heating circuit where the source of heat is a fireplace boiler insert, or other sources. The combustion process is automaticallycontrolled by the damper, which works together with the wall-mounted control unit. The generated heat isdissipated into the domestic hot water tank, thermal storage tank and central heating distribution. Regulation has three sensors and is able to operate three pumps. Thanks to its graphic display, you can immediately get information about the temperatures of individual sensors, whether the pumps or other source of heat are switched on. This regulation will enable you to save a lot of time regulating the insert, increase your safety and reduce fuel consumption.

- ease of user control
- graphic depiction of sensors, pumps and temperatures
- the entire heating system
- easy installation and connection
- turning other sources of heat on or off (electric / gas boiler, etc.)
- adjusting the settings for individual values using a detailed manual
- design that will match most interiors
- controls up to three pumps + three temperature sensors
- summer / winter heating mode

Basic regulation

- simple control right on the fireplace insert
- no need to connect to mains power
- safety sensor that closes the damper if overheating occurs
- all powered by longlife batteries
- audible alarm overheating

Manual regulation

- Works without electricity
- Controlled using a rod
- For those who like classic styles

full product range at **www.hsflamingo.com**

Vendor: