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IA AFFAG

INDUSTRIAL SILVER REFINING EQUIPMENT

IA AFFAG

IA AFFAG 35



IA AFFAG is Iamic's advanced solution for **electrolytic silver refining**, developed to guarantee **consistent process stability, high purity and maximum recovery efficiency** in industrial environments.

Designed for **continuous operation**, the system ensures stable working conditions, uniform refining performance and reliable daily production, even in demanding operating cycles.

IA AFFAG processes silver-bearing materials starting from **800% purity** and produces **silver up to 999.5%**, combining efficient electrolyte circulation, optimized current distribution and practical handling of anodes and cathodes.

Particular attention has been given to **operator safety, ease of maintenance and long service life**, reducing downtime and simplifying routine operations.

The modular design allows a wide range of production capacities and customized configurations to meet specific process requirements, plant layouts and expansion needs.

KEY BENEFITS

- Stable and continuous refining process
- High purity silver up to 999.5%
- High recovery efficiency of precious metals
- Reliable industrial construction designed for long-term operation
- Easy loading, handling and collection of refined silver
- Efficient dissolution of silver anodes
- Reduced downtime and simplified maintenance
- Modular and scalable design



SPECIFICATIONS	IA AFFAG 10	IA AFFAG 20	IA AFFAG 35	IA AFFAG 35	IA AFFAG 100	IA AFFAG 200
CATHODE POSITIONS	3	5	10	20	30	60
ANODE POSITIONS	2	4	9	18	27	54
MAX REFINING CAPACITY (24H) (KG)	12	20	35	70	105	210
RECTIFIER USED (A)	300	500	1,000	1,500	1,500	1,500
VOLUME (L)	350	450	1,200	1,800	2,400	4,800
OVERALL DIMENSIONS (CM)	150x80 xh240	200x120 xh250	350x120 xh250	475x120 xh250	650x120 xh250	750x300 xh250
POWER SUPPLY (V-HZ)	400-50	400-50	400-50	400-50	400-50	400-50
REQUIRED POWER (KW)	4	7	12	18	20	35

IA RIDAG

SILVER RECOVERY FROM NITRIC SOLUTIONS

The **IA RIDAG** series is a family of machines designed for the **reduction of silver from nitric solutions**, typically originating from:

- electrolytic silver refining
- gold refining
- recovery solutions containing silver nitrate

The system **converts dissolved silver into recoverable metallic silver in a fast, controlled, and safe manner**, minimizing losses and simplifying the subsequent stages of the process.

IA RIDAG has been specifically developed to operate with **concentrated acidic solutions** and to **manage fast, exothermic reactions** while maintaining stability, safety, and ease of operation.

Each component is engineered for continuous industrial use and to minimize manual intervention.

FEATURES

The system is supplied complete with:

- reduction reactor
- dedicated filter for silver separation
- piping for liquid handling
- discharge and transfer systems

The **reactor** is manufactured from **structural polypropylene lined with fiberglass**, a solution that ensures:

- high chemical resistance
- resistance to the temperatures generated during the reaction
- robustness and long service life

The reactor is equipped with a **high-efficiency mechanical agitator**, ensuring vigorous and uniform mixing, promoting complete reaction of the treated material.

EFFICIENCY

The **IA RIDAG** series is available in **several configurations**, sized according to:

- the batch volume of solution to be treated
- the required productivity
- plant layout requirements

Each model follows the same design philosophy:

maximum efficiency combined with ease of use and operational safety.



KEY BENEFITS

- **Efficient silver recovery**
- **Reduced precious metal losses**
- **Simple and fully controllable process**
- **Robust construction for industrial operation**
- **Enhanced operator safety**

IA RIDAG ►
500

	REACTOR VOLUME	INSTALLED POWER	POWER SUPPLY	MAIN FEATURES
IA RIDAG 250	250 liters	0.5 kW	400 V - 3 Ph	Dedicated Buchner filter, liquid transfer piping
IA RIDAG 500	500 liters	2.2 kW	400 V - 3 Ph	Dedicated Buchner filter, liquid transfer piping
IA RIDAG 1000	1000 liters	3.5 kW	400 V - 3 Ph	Dedicated Buchner filter, liquid transfer piping

CE The plants are CE-MARKED in compliance with Machinery Directive 2006/42/CE and Directives 2006/95/CE (low voltage) and 2004/108/CE (electromagnetic compatibility).

IA AFFAU

GOLD REFINING EQUIPMENTS



IA AFFAU

Plant useful for refining gold-containing alloys through dissolution in aqua regia and chemical precipitation of pure gold. It is used to refine gold grains, processing scraps and precious metal materials.



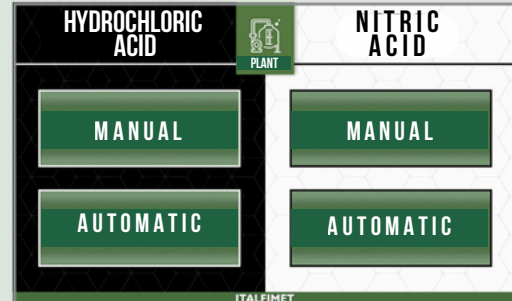
FEATURES

- Borosilicate glass reactor for chemical attack
- Polypropylene reactor for precipitation of metallic gold
- Filtration plants for silver (AgCl) and metallic gold
- Vacuum acid liquids suction system
- Automatic system for dosing reagents (HCl e HNO_3)
- Electrical command and control panel
- PLC automatic control system



KEY BENEFITS

- Possibility of heating during the chemical attack phase
- Reduction of process times
- Execution of processes in complete safety, the operator never comes into contact with acid solutions
- No acid storage container at high altitude



MODELS	IA AFFAU 02	IA AFFAU 05	IA AFFAU 10	IA AFFAU 50
BATCH CAPACITY	4	10	20	50
AVERAGE DISSOLUTION	4/5	4/5	4/5	4/5
BOROSILICATE GLASS REACTOR VOLUME (L)	20	50	100	2x100
PP REACTORS VOLUME (L)	100	250	500	500
OVERALL DIMENSIONS (CM)	250x150xh240	400x150xh260	500x150xh260	650x150xh260
POWER SUPPLY	400 V - 50 Hz	400 V - 50 Hz	400 V - 50 Hz	400 V - 50 Hz
ELECTRIC POWER REQUIRED (KW)	4	8	12	16



IA AFFAUDEL

GOLD ELECTROLYTIC REFINING EQUIPMENTS

Plant used to perform a high purity gold refining. The plant allows to electrolytically refine gold alloys (having a minimum purity of 995 ‰) up to a purity of 999.9 ‰.

FEATURES

- Polypropylene electrolysis tank
- Titanium bars
- Recirculation filter pump
- Current rectifier
- Process aspirator with inverter
- Electrical command and control panel

IA AFFAUDEL ►



KEY BENEFITS

- Metal production with purity 999.9 ‰
- Quick connection system of anode and cathode
- Possibility to refine on titanium or gold cathode
- Easy to use

MODELS

IA AFFAUDEL 02

IA AFFAUDEL 10

MAXIMUM DAILY REFINING QUANTITY

2 kg / 24 h

10 kg / 24 h

OVERALL DIMENSIONS

1,000 x 600
x 1,200 h mm

1,200 x 1,000
x 2,000 h mm

POWER SUPPLY

380 V

380 V

ELECTRIC POWER REQUIRED

1.5 kW

3 kW



CE The plants are CE-MARKED in compliance with Machinery Directive 2006/42/CE and Directives 2006/95/CE (low voltage) and 2004/108/CE (electromagnetic compatibility).



IA AFFACU

COPPER REFINING EQUIPMENTS

The plant allows the electrolytic refining of copper-containing alloys (with at least 95% copper) with the aim of obtaining electrolytic copper and anodic sludges containing precious metals.

FEATURES

- Recirculation tank
- Electrolysis tanks with double discharge bottom valves
- Current rectifier
- Process aspirator
- Continuous filtering system of the electrolysis solution
- Steel barriers resistant to sulfuric acid
- Anodic and cathodic bars in copper
- Recirculation pump
- Heating system with thermoregulation
- Sludge vacuum plant
- Electrical command and control panel
- Anode and cathode handling overhead crane
- Final washing tank



KEY BENEFITS

- Daily collection of anodic sludge thanks to the vacuum suction system
- Filtration of the solution continuously
- Convenience of use



MODELS	IA AFFCU 20	IA AFFCU 40	IA AFFCU 80	IA AFFCU 120
MAXIMUM DAILY REFINING QUANTITY	20 kg / 24 h	40 kg / 24 h	80 kg / 24 h	120 kg / 24 h
TOTAL VOLUME	600 L	1800 L	3000 L	4200 L
ELECTROLYTIC POSITIONS	4	9	18	27
OVERALL DIMENSIONS (LxWxH)	3,000 x 1,600 x 1,500 mm	4,500 x 1,600 x 3,500 mm	6,500 x 1,600 x 3,500 mm	8,500 x 1,600 x 3,500 mm
POWER SUPPLY	400 - 50 Hz	400 - 50 Hz	400 - 50 Hz	400 - 50 Hz
ELECTRIC POWER REQUIRED	8 kW	12 kW	17 kW	20 kW

CE The plants are CE-MARKED in compliance with Machinery Directive 2006/42/CE and Directives 2006/95/CE (low voltage) and 2004/108/CE (electromagnetic compatibility).

Very often, goldsmithry working cycles need large amounts of water for performing the first washing on objects that have undergone particular treatments (pickling, mechanical finishing with ultrasonic cleaners and vibrators, etc.) because objects drag into their surface traces of pollutants which may result acid, surfactants, casting plasters, etc.; furthermore, the presence of a significant number of employees involved in various working cycles may result in a certain consumption of water used for hand washing. To that end, iamic manufactures and sells plants for treating the water resulted from the recirculation process.

Recirculating washing water is a very useful technique, as it favours not only the reduction of water consumption (the plant, in fact, provides constantly the same water found inside it, in perfect conditions of use), but also the production of waste to be sent to the treatment plant (the only waste water to be treated turns out to be the backwashing of the column fillings, to be carried-out periodically).

The plant in standard configuration includes a filtering column in glass fiber reinforced with polyester (its size depending on the type of water to be treated), selector valve, charge pump, column filling (selected according to the type of pollutants to be retained), electrical panel, connecting reinforcement, and a **MOPLEN** sink to one of the holes for the distribution of recycled water for washing at the point of use.

IA RICIRC ►



FEATURES

OVERALL DIMENSION

1,500 x 800 x 1,100 - 2,200 h mm

ELECTRICAL POWER REQUIRED

0.5 - 1.5 kW

CE The plants are CE-MARKED in compliance with Machinery Directive 2006/42/CE and Directives 2006/95/CE (low voltage) and 2004/108/CE (electromagnetic compatibility).

IA AFA is the line of wet scrubber towers produced by Iamic Sagl.

The IA AFA towers are designed to reduce pollutants generated by industrial chemical processes, such as precious metal refining, galvanic treatments, and any processes that involve the use of acids producing harmful emissions.

Each process is carefully analyzed and studied to identify the most effective solutions, ensuring optimal performance and compliance with environmental regulations.

FEATURES

- Self-supporting polypropylene structure
- Recirculation pump
- Spray nozzles
- Inspection window
- Circulation tank with inspection door
- Process aspirator with inverter
- Predisposition for automatic dosage of reagents
- Electrical command and control panel

IA AFA ▼



KEY BENEFITS

- Simplicity of use
- Easily inspectable
- Regulation of the fumes speed
- Large volume of washing liquid
- Designed tailored to customer needs

MODELS	IA AFA 600	IA AFA 1000	IA AFA 1250	IA AFA 2000/2
TOWER DIAMETER	600 mm	960 mm	1250 mm	2000 mm
CIRCULATION TANK VOLUME	400 L	630 L	980 L	3000 L
PUMP FLOW	105 L / min	180 L / min	250 L / min	800 L / min
SUCTION FLOW RATE	300 m ³ / h	500 m ³ / h	800 m ³ / h	1,600 m ³ / h
CONTACT TIME	4.5 sec	5 sec	5.5 sec	5.3 sec
OVERALL DIMENSIONS (LxWxH)	800 x 1,200 x 2,200 mm	1,000 x 1,500 x 3,000 mm	1,250 x 1,750 x 3,600 mm	2,000 x 3,000 x 6,500 mm
POWER SUPPLY	380 V	380 V	380 V	380 V
ELECTRIC POWER REQUIRED	1.5 kW	2 kW	2.5 kW	4.5 kW



The plants are CE-MARKED in compliance with Machinery Directive 2006/42/CE and Directives 2006/95/CE (low voltage) and 2004/108/CE (electromagnetic compatibility).

F.S. SERIES

CUPELLATION FURNACES

In the cupellation process, temperature stability, heat uniformity, and power control are critical factors.

The F.S. Series is designed to ensure:

- **Stable and precise thermal control**
- **High-resistance refractory materials**
- **Complete electrical monitoring**
- **Reliability for intensive refinery use**
- **Robust and durable industrial structure**

Ideal solutions for refineries, assay laboratories, and precious metal recovery plants.

F.S. SILIT

Maximum control with multi-zone monitoring

Furnace designed for professional applications where independent resistance management and advanced power control are required.

- Painted steel structure
- Carborundum muffle chamber
- 3 power transformers – 6 kW each
- 3 Ammeters + 3 Voltmeters
- Digital temperature controller
- Automatic start timer
- Cooling fan

Ideal for intensive use and detailed resistance monitoring.

F.S.T

Compact, efficient, essential

Optimized version for laboratories requiring reliability and operational simplicity.

- Painted steel structure
- Carborundum muffle chamber 17x10,5x22 cm
- 7.5 kW transformer
- 1 Ammeter + 1 Voltmeter
- Digital temperature controller
- Auxiliary circuit cooling fan

Perfect for assay laboratories and medium-small production operations.



	F.S. SILIT	F.S.T
STRUCTURE	Steel	Acciaio
INTERNAL CHAMBER (CM)	17x23xh10,5	17x10,5xh22
HEATING ELEMENTS	Silite VE 14x200x250	Silite VE 8x200x150
TRANSFORMERS	3 x 6 kW	1 x 7.5 kW
MONITORING	3 Ammeters + 3 Voltmeters	1 Ammeter + 1 Voltmeter
POWER REQUIREMENTS	3 x 6 kW	6.5 kW
POWER SUPPLY	400 / 220 V (multi circuit)	400 V three-phase
COOLING	Cooling fan	Auxiliary circuit fan
APPLICATION	Refineries / intensive duty	Laboratories / medium duty

KEY BENEFITS

- Consistent thermal stability throughout the entire cycle
- Reduction of analytical deviations
- Long service life of Silite heating elements
- Reliable industrial-grade components
- Specifically designed for refinery environments



The plants are CE-MARKED in compliance with Machinery Directive 2006/42/CE and Directives 2006/95/CE (low voltage) and 2004/108/CE (electromagnetic compatibility).

ANALYTICAL BALANCE

FOR ASSAY LABORATORY

Weighing table to absorb shocks and vibrations, which could otherwise falsify the weighing result.

FEATURES

- Automatic internal adjustment with temperature changes > 0.5 °C or chronological command every 4h
- Dosage support: High stability mode and other settings can be selected
- Practical in composition of mixes/drafting of documentation with combined tare/print function
- Furthermore, the components of the mix can be automatically numbered and printed with the respective number/value of the weight 4-digit identification code, programmable and indicating the date and time on the balance
- Automatic emission of the data on the printer/PC on each balance stop

LARGE LCD DISPLAY

figure height 14 mm

WEIGHTING PLATE DIMENSION

Ø 80 mm

BALANCE DIMENSIONS (LxWxH)

217 x 356 x 338 mm

WEIGHING COMPARTMENT (LxWxH)

168 x 172 x 223 mm

NET WEIGHT

approx. 7 kg

PERMITTED AMBIENT TEMPERATURE

10°C/30°C

Anti-vibrating table,
which supports the analytic balance, to
absorb shocks and vibrations
which might distort the weighing results.



MODELS	MAX CAPACITY GR	DIVISION MG	DIVIS VALIDATION MG	MIN LOAD MG	REPRODUCIBILITY	LINEARITY MG
ABT 120-5DM	42 - 120	0.01 - 0.1	1	1	0.02 - 0.1	+/- 0.05 0.2
ABT 220-5DM	82 - 220	0.01 - 0.1	1	1	0.05 - 0.1	+/- 0.1 0.2



The plants are CE-MARKED in compliance with Machinery Directive 2006/42/CE and Directives 2006/95/CE (low voltage) and 2004/108/CE (electromagnetic compatibility).

Equipped extractor hood for precious metal assaying.

Manufactured in self-extinguishing polypropylene, it enables nitric acid and sulphuric acid assaying.

The hoods can be equipped according to the production capacity necessary with 1.5 kW electric ovens to contain 6 Kjeldahl flasks each or with two systems composed of a 2 L class container, electric heater, refrigerator and pulley system to lift suitable assays for containment of 24 quartz cuvettes.

The hood has a sliding door in transparent PVC and lighting.



MODELS	DIMENSIONS	WEIGHT	POWER SUPPLY	POWER	6 POSITIONS FURNACES	24 POSITIONS PYREX SYSTEM
IA CAP 06	1,200 x 600 x 2,000 h mm	50 kg	220 V	1.5 kW	1	0
IA CAP 12	1,400 x 600 x 2,000 h mm	60 kg	220 V	3 kW	2	0
IA CAP 50	1,800 x 600 x 2,000 h mm	60 kg	220 V	4 kW	1	2

CE The plants are CE-MARKED in compliance with Machinery Directive 2006/42/CE and Directives 2006/95/CE (low voltage) and 2004/108/CE (electromagnetic compatibility).

IA CAP CHEMICAL SYNTHESIS

PRECIOUS METAL SALTS PRODUCTION EQUIPMENT



CIRCULAR
ECONOMY

The plant mod. **IA PT SALT** allows the production of a solution of platinum salts starting from pure platinum.

The solution obtained can be used as an additive for galvanic baths or other applications. The plant mod. **IA PT SALT** allows the production of 100 g of platinum for each work cycle.

FEATURES

- Work hood made of PPs
- Counterweight frontal sash
- Hotplate
- Vacuum filtration system
- Laboratory glassware
- Electrical command and control panel

KEY BENEFITS

- Easy to use
- Safety in operations
- Final product with high quality



OVERALL DIMENSIONS

1,500 x 900 x 2,300 h mm

POWER SUPPLY

380 V

ELECTRIC POWER REQUIRED

1.5 kW

CE The plants are CE-MARKED in compliance with Machinery Directive 2006/42/CE and Directives 2006/95/CE (low voltage) and 2004/108/CE (electromagnetic compatibility).

STATIC MELTING FURNACES

GIANT SERIES

The GIANT line represents the evolution of static melting furnaces, designed by IAMIC to deliver the perfect balance of performance, reliability, and operational efficiency. Developed from IAMIC's extensive experience in the analysis, melting, and recovery of precious and non-ferrous metals, the GIANT range, consisting of the GIANT 25, GIANT 40, and GIANT 6080 models, has been engineered to provide outstanding performance, competitive investment costs, and exceptionally low operating and maintenance expenses. Its robust construction and high-quality components ensure maximum reliability, long service life, and ease of operation, even under demanding production conditions. With high energy efficiency and low operating costs, the GIANT line offers a cost-effective and reliable alternative to traditional electric and induction furnaces for a wide range of industrial applications.

GIANT 25

GIANT 40

GIANT 6080



MODEL	GIANT 25	GIANT 40	GIANT 6080
TOTAL GROSS WEIGHT KGS	175	275	490
ELECTRIC POWER	KW 0.18/0.37 - 50HZ	KW 0.37 - 50HZ	KW 0.37 - 50HZ
THEORETIC CRUCIBLE CAPACITY	A25 = 2,8 LTS = 25 KG CU	A40 = 5/6,7 LTS = 40 KG CU	A80 = 9/14 LTS = 40 KG CU
MAX WORKING CRUCIBLE CAPACITY	A30 = 6.3 LTS = 25 KG CU		
THERMAL POWER	50.000 KCAL / H	85.000 KCAL / H	100.000 KCAL / H
THEORETICAL CH₄ CONSUMPTION	5.88 M ³ / H	10 M ³ / H	11.76 M ³ / H
THEORETICAL LPG CONSUMPTION	4.17 KGS/H	7.08 KGS/H	8.03 KGS/H
GAS PRESSURE TO THE BURNER	15 - 50 MBAR	15 - 50 MBAR	15 - 50 MBAR

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HOT BOTTOM SOLE INCINERATOR

PRECIOUS METALS RECOVERY

ILO KT2PCL EVO

Ultra-compact incineration furnace for small installations, offering efficient precious metal recovery, low energy consumption and easy operation. Available in three configurations to match different emission control requirements.

ILO SC 025 RST

Compact incineration furnace for the first stage of precious metal recovery. Combining advanced emission control, Hot Hearth technology and Industry 4.0 connectivity, it delivers efficient and reliable operation.

ILO SC 06 RST

Compact incineration furnace for continuous recovery of precious metals from jewellery residues and E-waste. High efficiency, low emissions, IAMIC Hot Hearth technology and Industry 4.0 connectivity ensure reliable industrial performance.

ILO KT2PCL EVO

ILO SC 025 RST

ILO SC 06 RST



MODEL	ILO KT2PCL EVO	ILO SC 025 RST	ILO SC 06 RST
TOTAL GROSS WEIGHT KGS	460	2000	6500
ELECTRIC POWER	KW 0.4 - 230V 1PH - 50HZ	KW 2.2 - 400V 3PH - 50HZ	KW 4 - 400V 3PH - 50HZ
INCINERATION CHAMBER DIM.	MM. 430 Ø X 515	MM. 575 X 735 X 570	MM. 1230 X 760 X 750
MAX INCINERATION CHAMBER'S VOL.	0.75 LTS	0.24 M ³	0.70 M ³
MAX THERMAL POWER	40.000 KCAL / H	70.000 KCAL / H	150.000 KCAL / H
MAX CH₄ CONSUMPTION	4.71 M ³ / H	10.6 M ³ / H	17.6 M ³ / H
MAX LPG CONSUMPTION	3.33 KGS/H	7.5 KGS/H	12.5 KGS/H
GAS PRESSURE TO THE BURNER	15 - 50 MBAR	15 - 50 MBAR	15 - 50 MBAR

CE The plants are CE-MARKED in compliance with Machinery Directive 2006/42/CE and Directives 2006/95/CE (low voltage) and 2004/108/CE (electromagnetic compatibility).

TILTING MELTING FURNACES

ADVANCED MELTING SOLUTIONS

The ROL Series hydraulic tilting furnaces are engineered for melting, refining and recovering precious metals, non-ferrous alloys, ashes, polishing residues, anodes and high-temperature slags. Designed for medium and large production volumes, they combine outstanding melting performance with maximum safety, operational efficiency and low running costs.

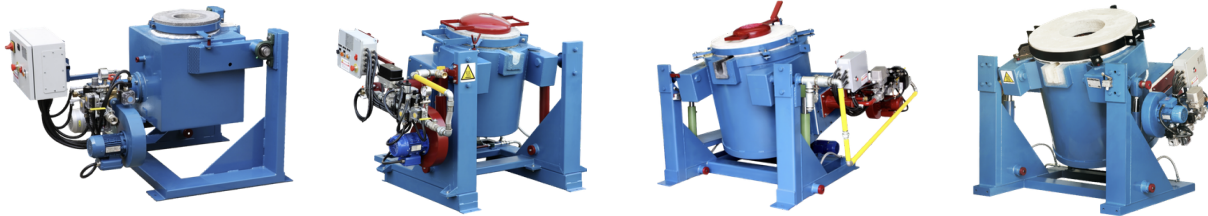
Featuring a low-pressure hydraulic tilting system aligned with the pouring spout, advanced automatic burners, variable-speed remote controls and optional swivel fuel connection, the ROL Series ensures precise pouring, enhanced operator safety and reliable continuous operation. Industry 4.0-ready connectivity and remote diagnostics complete a robust and versatile solution built to the high engineering standards of IAMIC SAGL.

ROL 25

ROL 40

ROL 120

ROL 200



SPECIFICATIONS

ROL 25

ROL 40/50

ROL 120

ROL 200

SPECIFICATIONS	ROL 25	ROL 40/50	ROL 120	ROL 200
TOTAL GROSS WEIGHT	400 KGS	675 KGS	1150KG	1350KG
ELECTRIC POWER	KW 1.1 - 230V - 50HZ	KW 1.1 - 300 / 400V - 50HZ	KW 1.5 - 230V - 50HZ	KW 1.5 - 230V - 50HZ
THEORETIC CRICIBLE CAPACITY	A25 = 2.81 LTS = 25KG CU	A50 = 5.5/8 LTS = 50KG CU	A120 = 13.5/20 LTS = 120KG CU	A200 = 200KG CU
MAX THERMAL POWER	60.000 KCAL / H	85.000 KCAL / H	150.000 KCAL / H	150.000 KCAL / H
MAX CH ₄ CONSUMPTION	7.0 M ³ /H	11.76 M ³ /H	12.64 M ³ /H	17.7 M ³ /H
MAX LPG CONSUMPTION	5.0 KGS/H	8.33 KGS/H	12.5 KGS/H	12.5 KGS/H
GAS PRESSURE TO THE BURNER	15 - 50 MBAR	15 - 50 MBAR	15 - 50 MBAR	15 - 50 MBAR



The plants are CE-MARKED in compliance with Machinery Directive 2006/42/CE and Directives 2006/95/CE (low voltage) and 2004/108/CE (electromagnetic compatibility).

IAMIC SAGL

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