

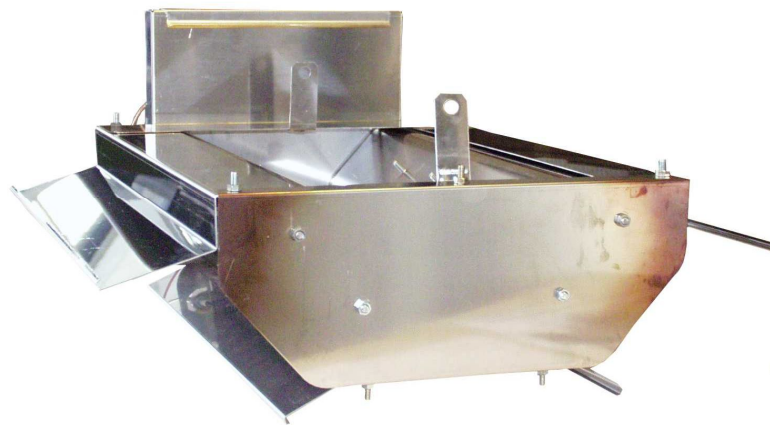


XLA BROODERS

TECHNICAL INSTRUCTIONS

N° 05000261/5

GAS HEATING FOR POULTRY AND LIVESTOCK



1. TECHNICAL SPECIFICATIONS

2. INSTALLATION

3. LIGHTING THE BROODERS

4. SHUT-OFF

5. MAINTENANCE

6. GAS CONVERSION

7. SPARE PARTS

Manufacturer :

SBM
3, cottages de la Norge
21490 CLENAY
FRANCE

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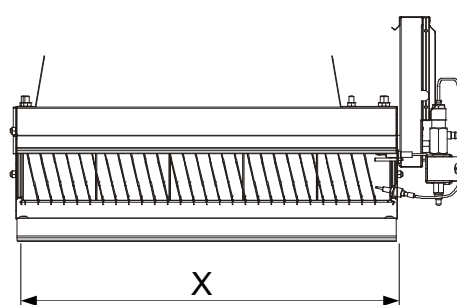
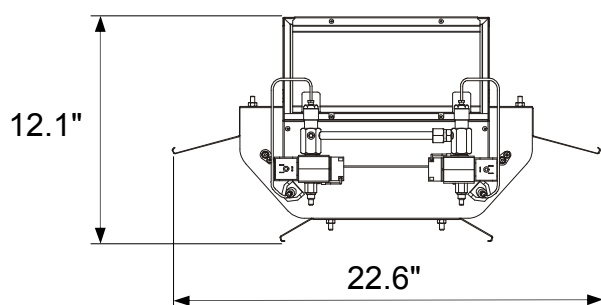
1. TECHNICAL SPECIFICATIONS

Refer to the rating plate on the filter box holder
(see example opposite)

SBM	3, cottages de la Norge 21490 Clénay - France
Type / serial nr. :	216 XLA 2105
PROPANE 148 mbar (2.15 psi)	
Puissance / Capacity /	14.000 kW
Nennwärmebelastung	47,800 Btu/h
230/240V - 50/60Hz - 28VA	

05011244

	208	212	216
X (")	10.7	15.7	20.6
Weight (lbs)	15.40	17.60	19.80



Power supply

230V (+10% -15%) / 50Hz - 60Hz / 2 x 0.1A / Ignition time limited to 45 seconds

Propane - Inlet pressure 0.80 to 2.60 PSI (nominal 2.15 PSI)

			208	212	216	
Nominal capacity	(inlet pressure = 2.15 PSI)	ΣQ_n (Hs)	24,000	36,000	48,000	Btu/h
(Nominal heat input)		ΣQ_n (Hi)	22,500	34,100	44,400	Btu/h
Maximum capacity	(inlet pressure = 2.61 PSI)	ΣQ_m (Hs)	26,600	40,700	52,900	Btu/h
(Maximal heat input)		ΣQ_m (Hi)	24,200	37,500	48,900	Btu/h
Gas consumption	(inlet pressure = 2.15 PSI)	M	6.20	9.30	12.40	Gal/day
(Mass flow rate)	(inlet pressure = 2.61 PSI)	M	6.82	10.25	13.66	Gal/day
Ø orifices (1/100e mm)	primary orifice (restrictor)		none	none	none	
	secondary orifice (injector)		2 x 65	2 x 78	2 x 95	
Combustion air			233	353	459	Cu.ft/h

Hi = Net calorific value - Hs = Gross calorific value

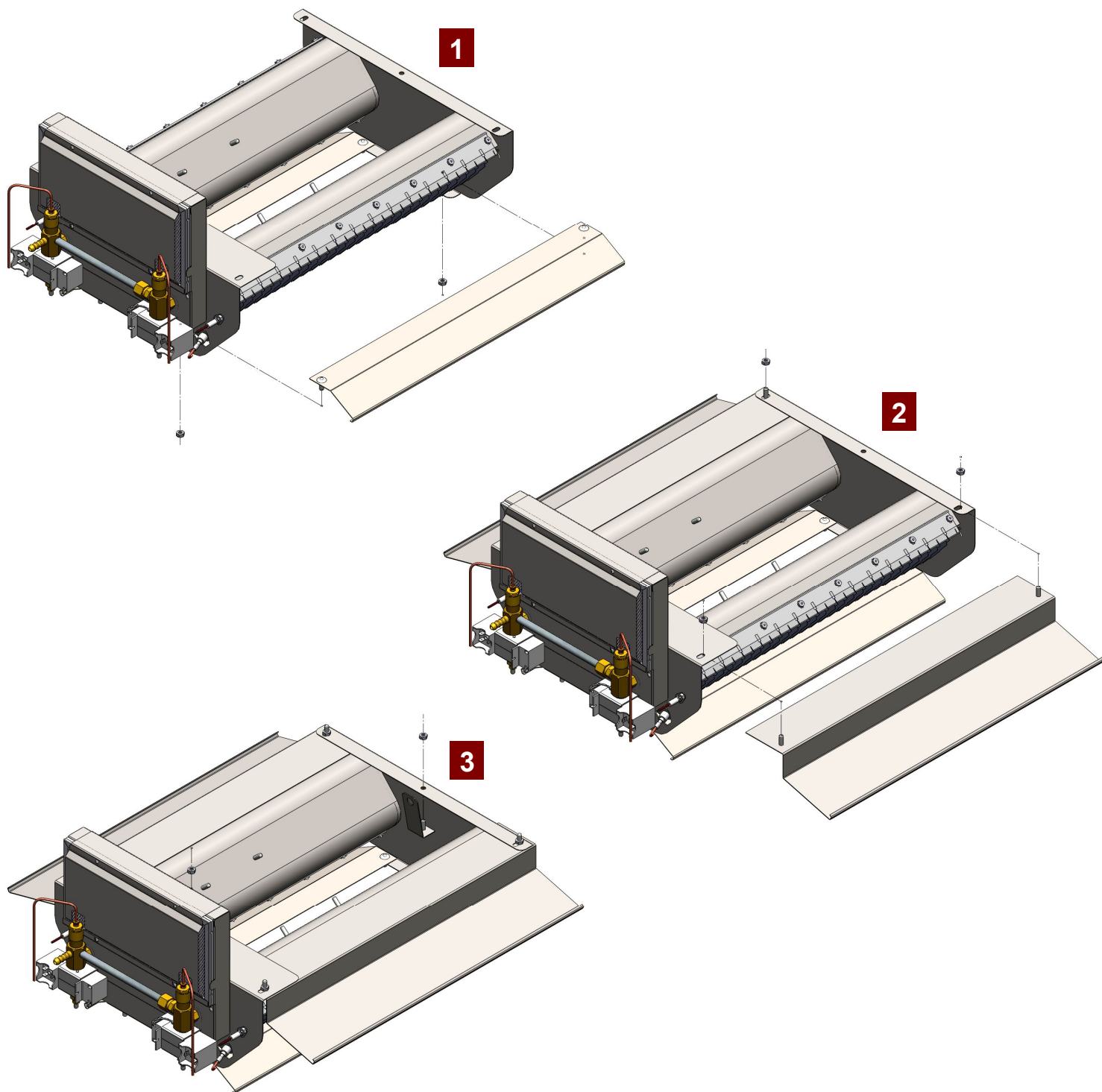
The proper operation of the heaters requires the renewal of 1 m³/h fresh air per kW of operating capacity.

2. INSTALLATION

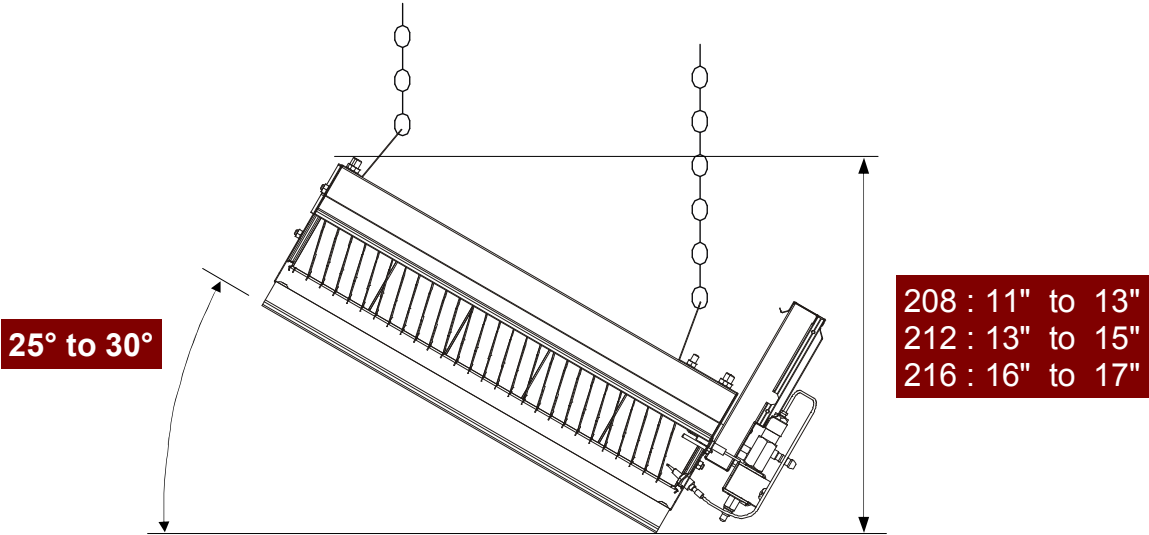
2.1 RULES AND REGULATIONS

- ✚ The brooders must be installed in compliance with current local regulations, by a qualified installer.
- ✚ The brooders must be installed in sufficiently ventilated premises.
- ✚ The brooders are not authorised for use in domestic premises.

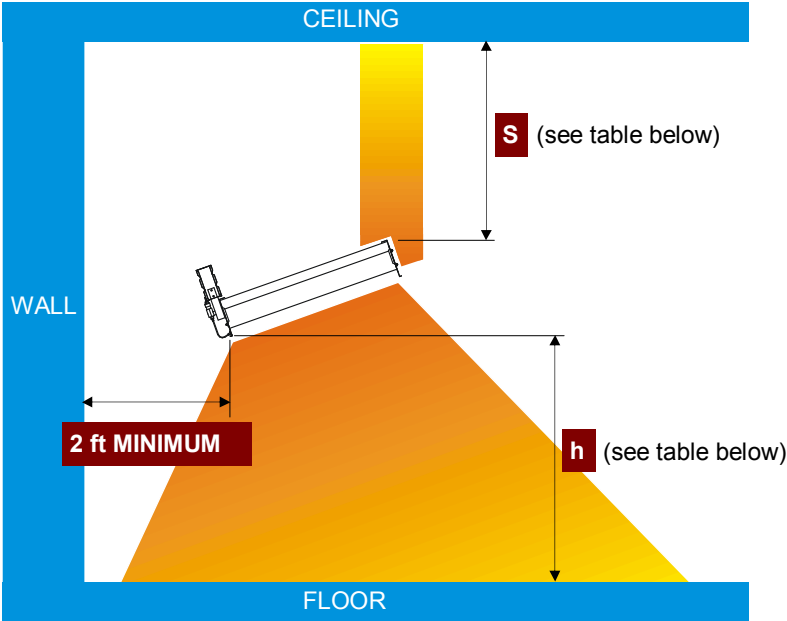
2.2 ASSEMBLING OF BROODER



2.3 INCLINATION OF BROODER



2.4 MINIMUM SAFETY CLEARANCES



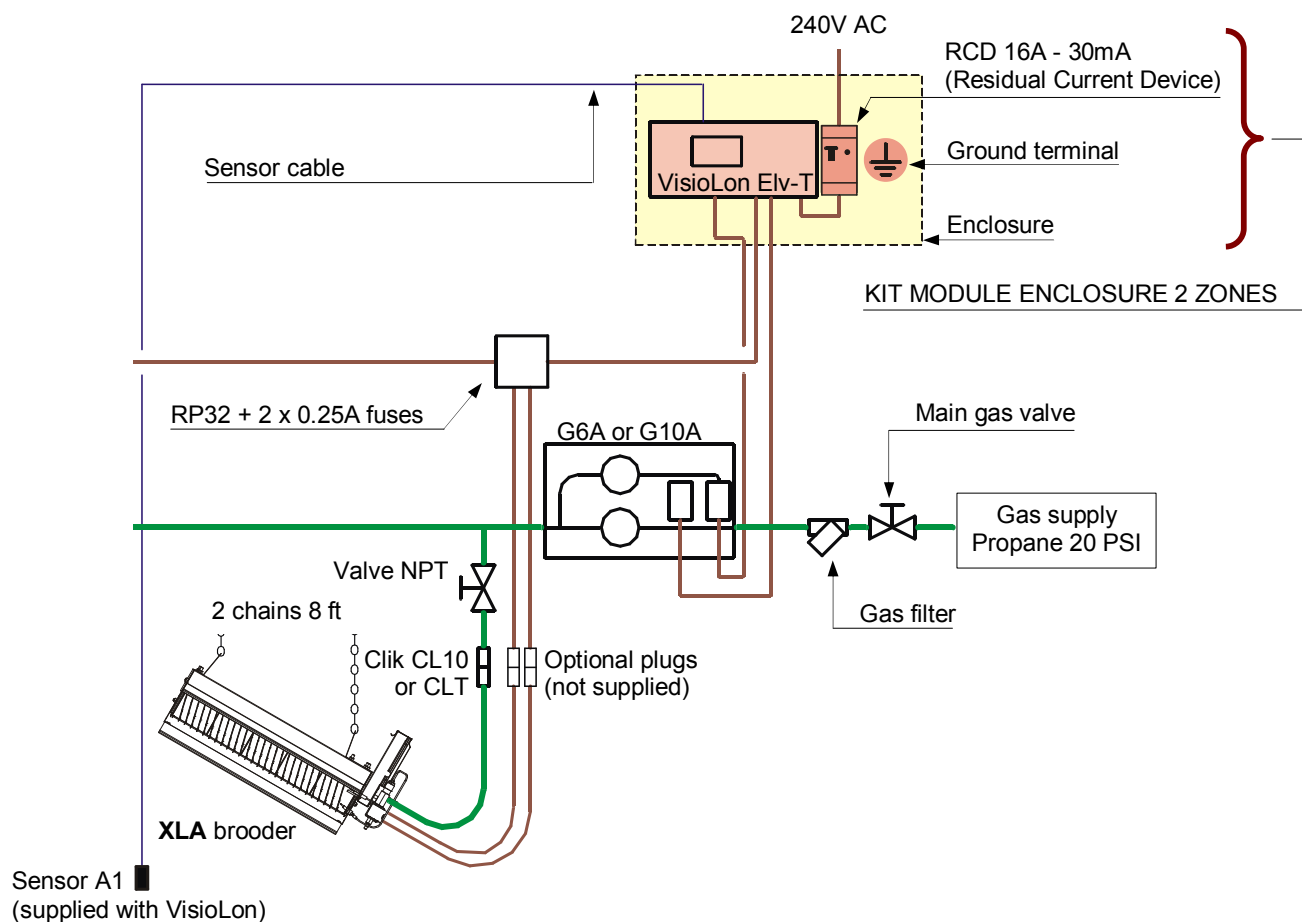
Ceiling	S (ft)
Inflammable ceiling (plastic) (max. surface temperature : 158°F)	2 1/2
Non inflammable ceiling (metal)	1

Brooder size	208	212	216
h (ft)	2 3/4	3 1/4	3 1/4

For **recommended** hanging heights **H**, please contact your local SBM specialist.

3. LIGHTING THE BROODERS

3.1 STANDARD INSTALLATION



3.2 IGNITION

IMPORTANT : preheat the building 24 hours before the animals arrive.

- Set the G6A-G10A **MINI** gas regulator to position **1**.
- Set the G6A-G10A **MAXI** gas regulator to position **8 (Summer)** or position **10 (Winter)**.
- Open the main gas valve.
- Open the individual gas valves.
- Switch on the power supply.
- Adjust the **VisioLon Elv-T** set point to the temperature required by the animals. Ignition of the brooders is automatically activated by the **VisioLon Elv-T**.

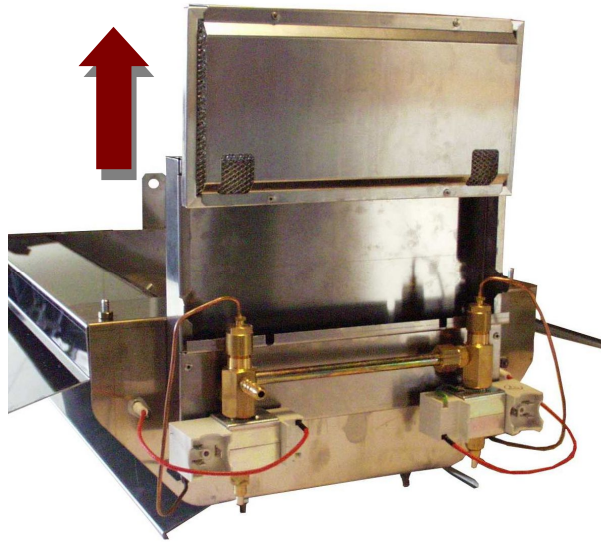
4. SHUT-OFF

- Close the main gas valve.
- Switch off the power supply.

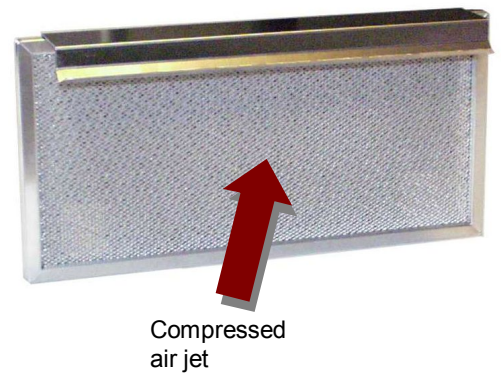
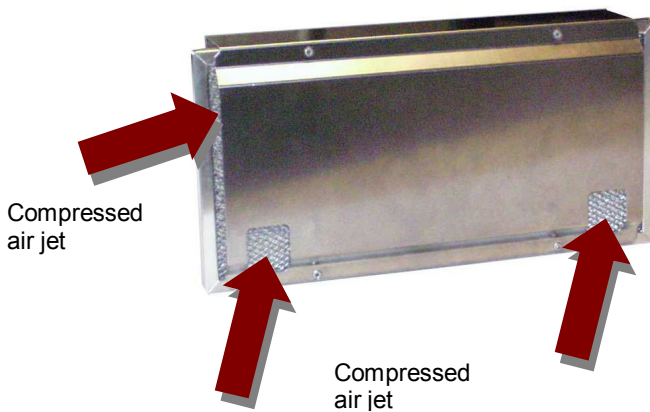
5. MAINTENANCE

ONCE A WEEK (or whenever a blue flame appears), CLEAN THE AIR FILTER.

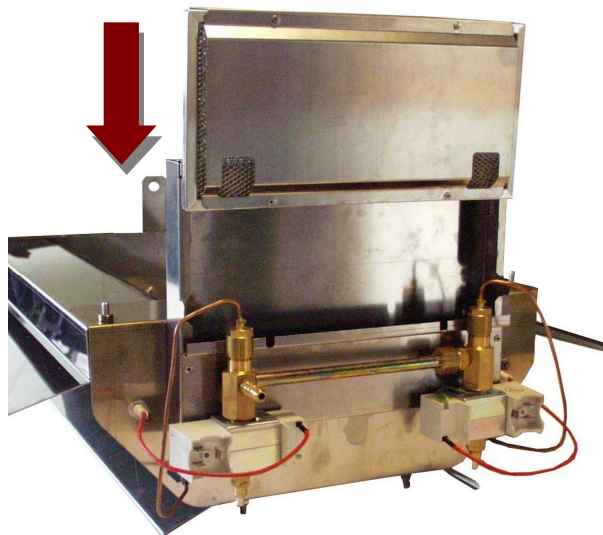
✚ Take out the metal filter



✚ Blow out the metal filter with compressed air

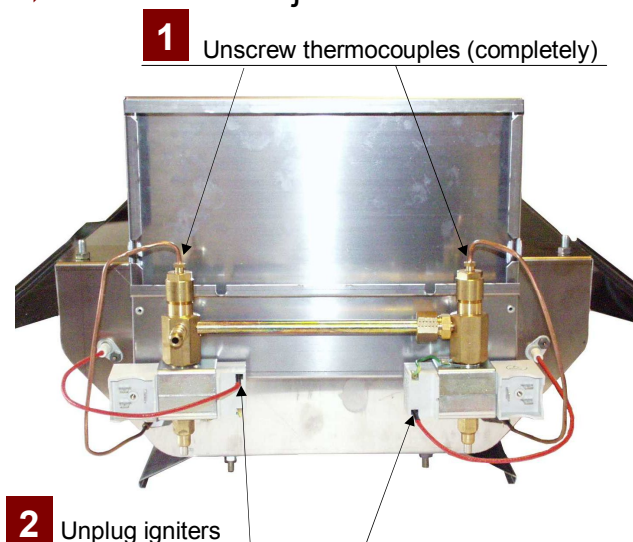


✚ Replace the metal filter in the filter holder

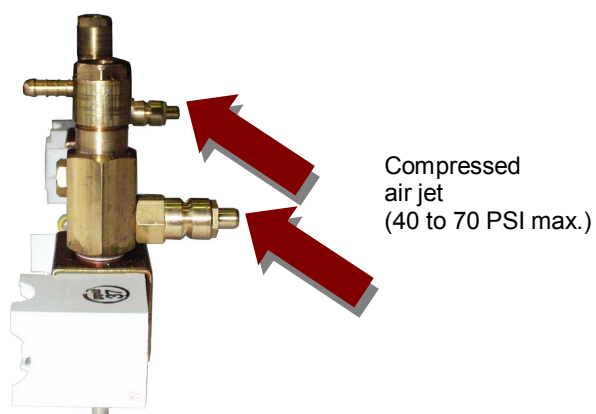


ONCE A YEAR (or whenever a blue flame appears), CLEAN THE BROODER.

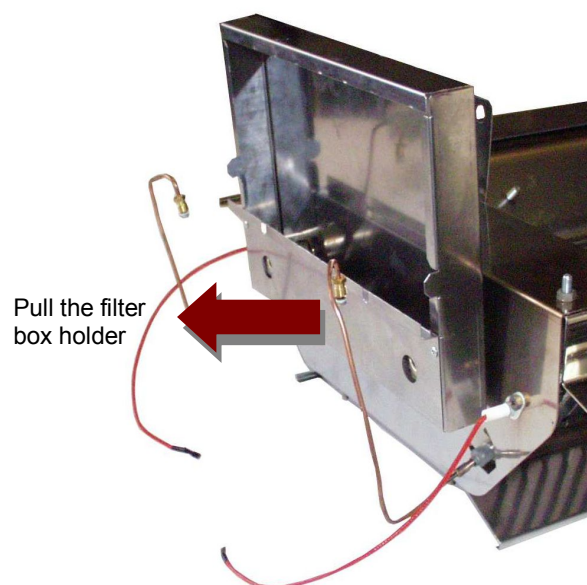
✚ Remove the injector block.



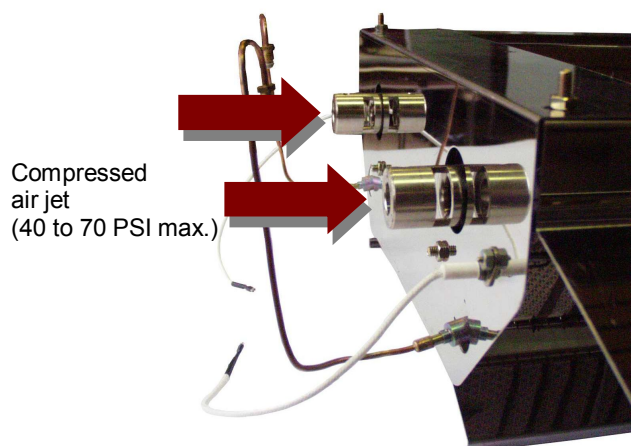
✚ Clean the injector block with compressed air.



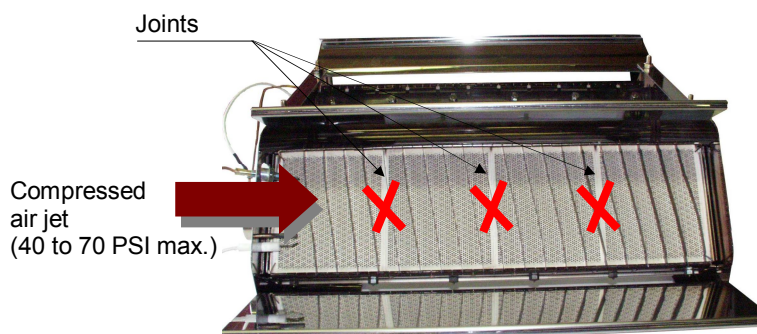
✚ Remove the filter box holder and blow it with compressed air.



✚ Blow the inside of the 2 burners with compressed air.



✚ Blow the surface of the ceramic plaques with compressed air.



Do not aim at the joints between the ceramic plaques.

✚ After cleaning the brooder, make sure that the brooder (surface of the ceramic plaques, hanging bracket) has not experienced mechanical damage.

ONCE A YEAR, PERFORM A VISUAL INSPECTION OF ALL FLEXIBLE GAS HOSES, ESPECIALLY AROUND THE HOSE CLAMPS.

6. GAS CONVERSION

The brooders are designed to operate with the following gas :

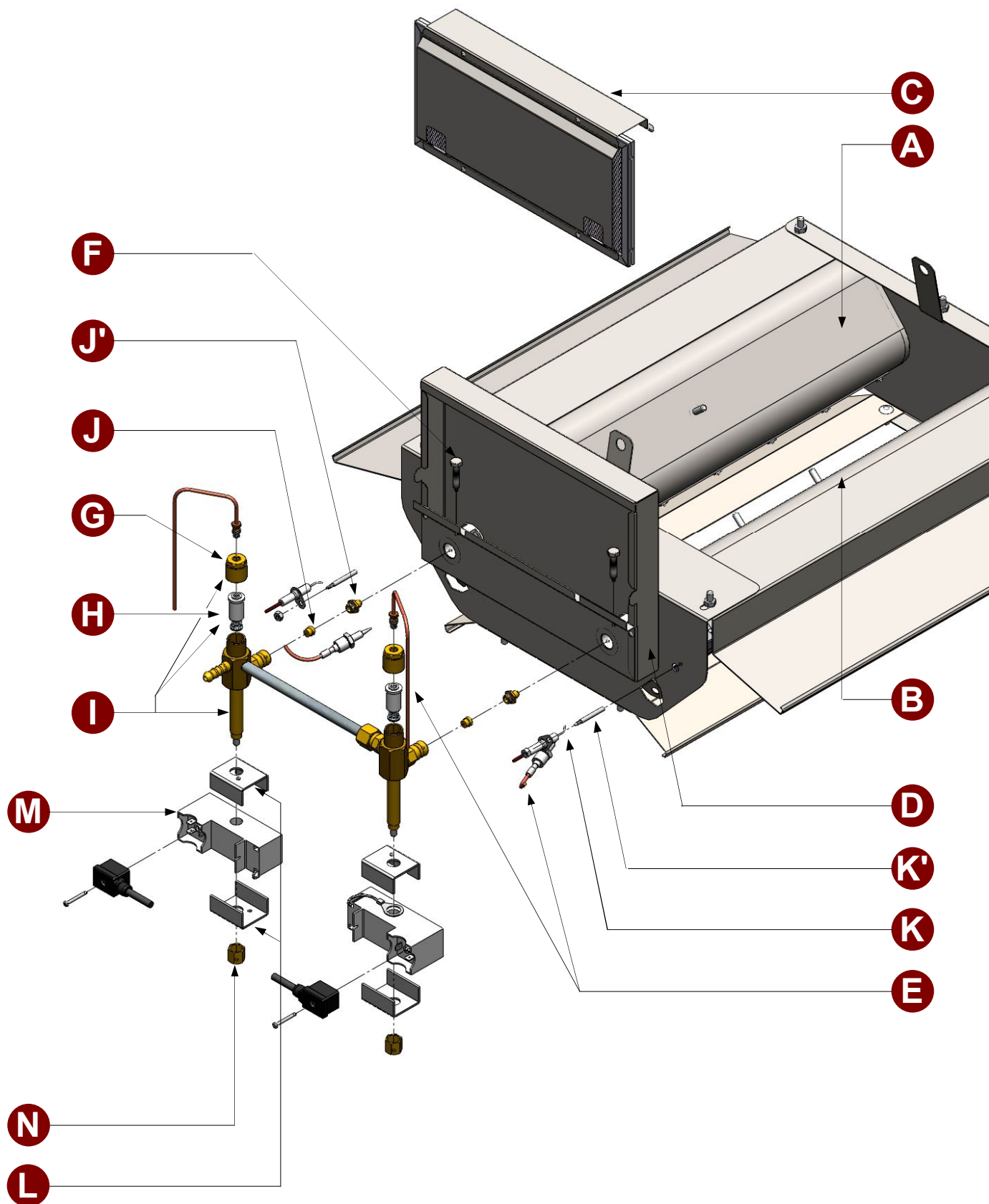
GAS	PRESSURE
Propane	2.15 PSI

The equipment is adjusted for the type of gas and pressure as displayed on the rating plate.

For any gas conversion, please contact your local SBM specialist.

7. SPARE PARTS

REP.	SPARE PARTS
A	BR 208XL LEFT BR 212XL LEFT BR 216XL LEFT
B	BR 208XL RIGHT BR 212XL RIGHT BR 216XL RIGHT
C	METAL FILTER 300
D	METAL FILTER HOLDER 300
E	THERMOCOUPLE FA
F	10 LOCKING SCREW 6X100/30 (supplied by packs of 10)
G	INJECTOR BLOCK CAP
H	MAGNETIC HEAD 11.5
I	BLOCK 200 XLA T10 BLOCK 200 XLA 14G BLOCK 200 XLA T11 BLOCK 200 XLA 12G
J	PRIMARY ORIFICE M9x1 (please specify the number marked on the end of the orifice)
J'	ORIFICE (please specify the number stamped on the side of the orifice)
K	IGNITER
K'	EARTH PIN L3-NUT
L	BA BRACKETS (2)
M	BA BLOCK
N	BA NUT



For any spare part order, please specify :

- brooder type and serial number
- type of gas
- operating pressure

These informations are displayed on the rating plate, attached to each brooder.



**TO BE DISPLAYED
NEXT TO THE CONTROL UNIT**



GAS CERAMIC HEATING

XLA BROODERS OPERATING INSTRUCTIONS

No. 05000261/5

(TO BE DISPLAYED NEXT TO THE CONTROL UNIT)

AUTOMATIC CONTROL

VisioLon Elv-T module and G6A or G10A gas regulation

LIGHTING THE BROODERS :

- ✚ Set the G6A / G10A **MINI** gas regulator to position 1.
- ✚ Set the G6A / G10A **MAXI** gas regulator to position **8 (Summer)** or position **10 (Winter)**.
- ✚ Open the main gas valve.
- ✚ Open the individual gas valves.
- ✚ Switch on the power supply.
- ✚ Adjust the VisioLon Elv-T set point to the temperature required by the animals.
Ignition of the brooders is automatically activated by the VisioLon Elv-T.

SHUT-OFF :

- ✚ Close the main gas valve.
- ✚ Switch off the power supply.

OPERATION IN CASE OF POWER FAILURE :

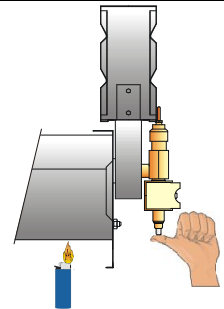
A SBM AUTOMATIC SYSTEM CAN OPERATE WITHOUT ELECTRICITY

BROODERS OPERATING

- ✚ Adjust the heating level manually using the **MINI** regulator of the G6A / G10A.
- ✚ After the power comes back, reset the **MINI** regulator to its original position.

BROODERS "OFF"

- ✚ Set the **MINI** regulator of the G6A / G10A to 10.
- ✚ Press the push-button while holding a flame against the ceramic surface of one burner.
Keep pressing the push-button during 30 seconds.
- ✚ Repeat this operation for the second burner.
- ✚ After the power comes back, reset the **MINI** regulator to its original position.

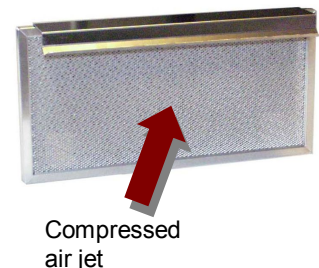
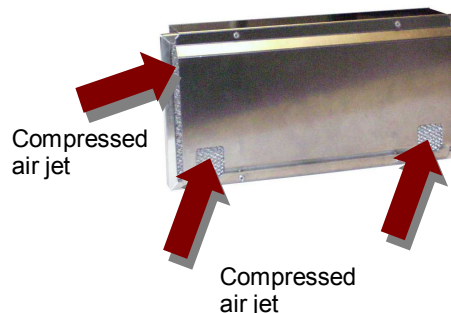
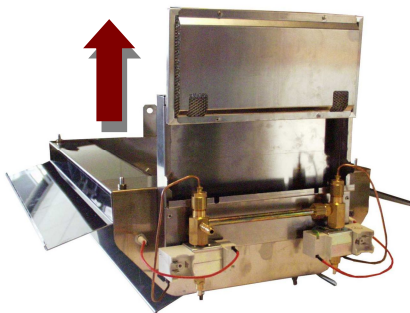


Do not hold your face close to the ceramic plaques during ignition.

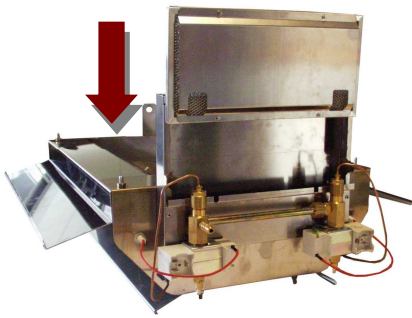
MAINTENANCE :

ONCE A WEEK (or whenever a blue flame appears), **CLEAN THE AIR FILTER :**

- ✚ Take out the metal filter
- ✚ Blow out the metal filter with compressed air

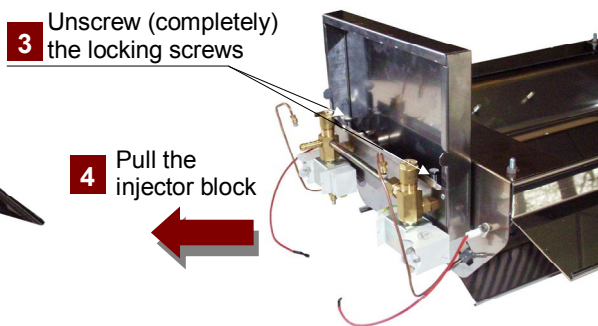
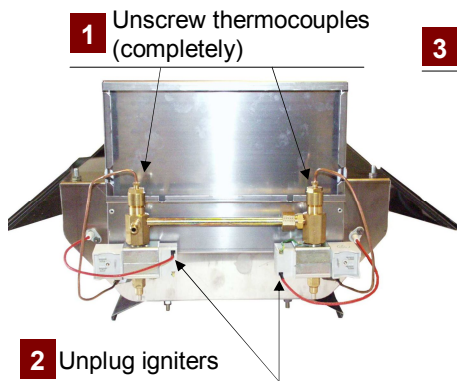


- ☞ Replace the metal filter in the filtre holder

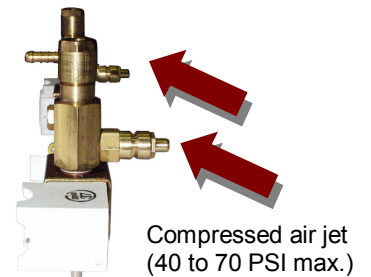


ONCE A YEAR (or whenever a blue flame appears), CLEAN THE BROODER :

- ☞ Remove the injector block.



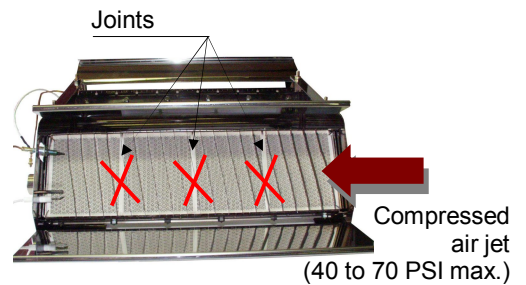
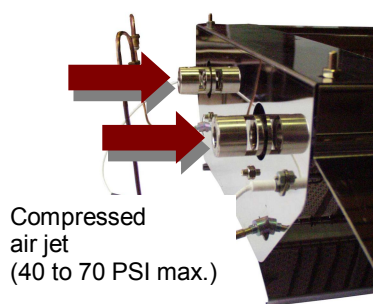
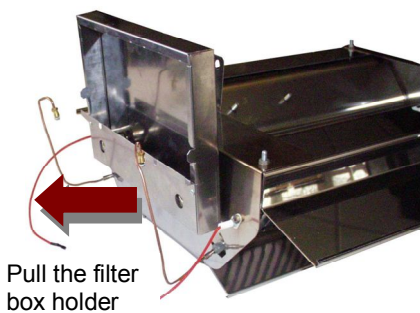
- ☞ Clean the injector block with compressed air



- ☞ Remove the filter holder box and blow it with compressed air.

- ☞ Blow the inside of the 2 burners with compressed air.

- ☞ Blow the surface of the ceramic plaques with compressed air.



 **Do not aim at the joints between the ceramic plaques.**

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Installer's stamp :