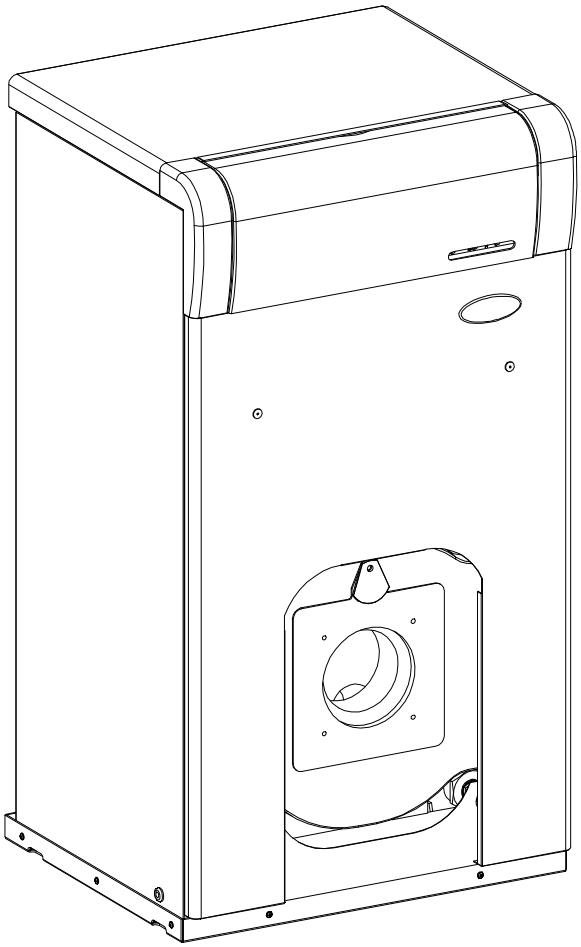
INSTALLATION AND OPERATING INSTRUCTIONS

- JAKA HFD
- JAKA HFS



DOMUSA TEKNIK

Thank you for choosing a **DOMUSA TEKNIK** heating boiler. You have chosen a boiler which will provide the ideal level of comfort for your home, always with a suitable hydraulic installation and oil-fired.

This manual forms an essential part of the product, and it must be given to the user. Read the warnings and recommendations in the manual carefully, as they contain important information on the safety, use and maintenance of the installation.

These boilers are to be installed by skilled personnel only, in accordance with the legislation in force and following the manufacturer's instructions.

The start-up of these boilers and any maintenance operations must only be carried out by **DOMUSA TEKNIK**'s Authorised Technical Assistance Services.

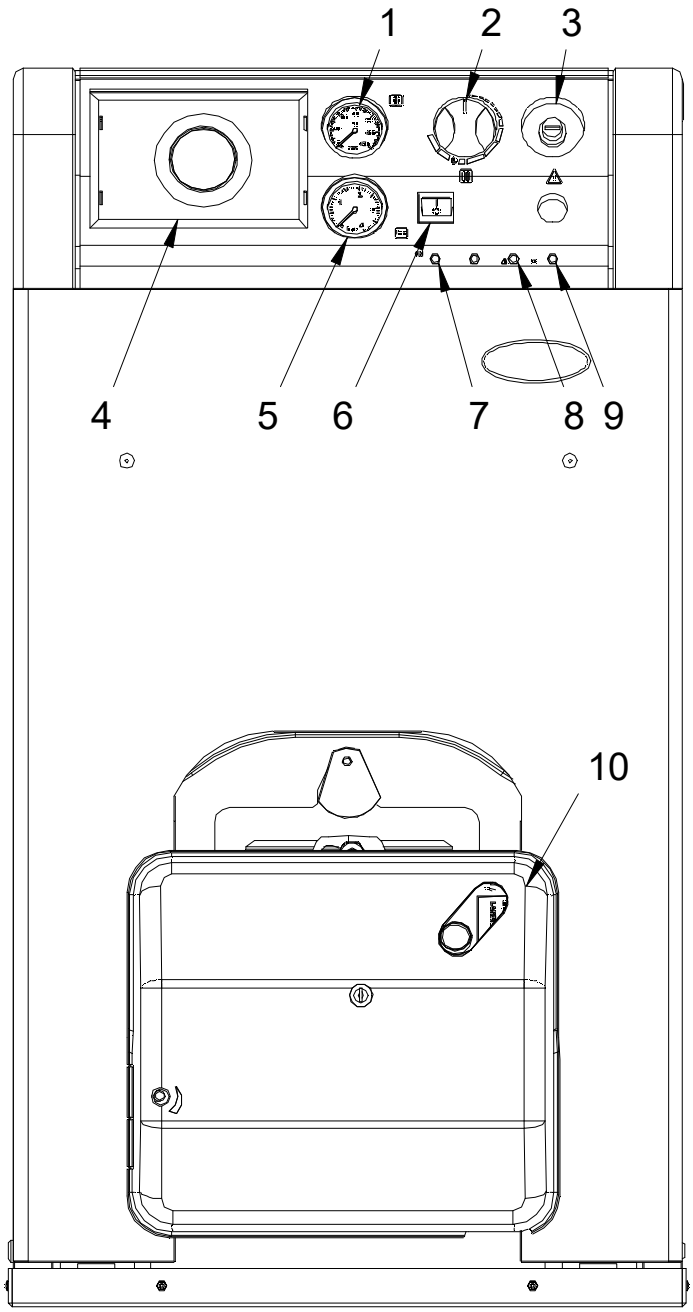
Incorrect installation of these boilers could result in damage to people, animals or property, and the manufacturer will hold no liability in such cases.

DOMUSA TEKNIK informs all parties concerned that, in compliance with section 1 of the first additional provision of Law 11/1997, the responsibility for delivering packaging waste or used packaging for its proper environmental management will be that of the final owner of the product (Article 18.1 Royal Decree 782/1998). At the end of its useful life, the product must be taken to a selected collection point for electrical and electronic equipment or must be returned to the distributor at the time of purchasing a new equivalent appliance. For more detailed information on the collection schemes available, contact either the collection facilities of the local authority or the distributor where the purchase was made.

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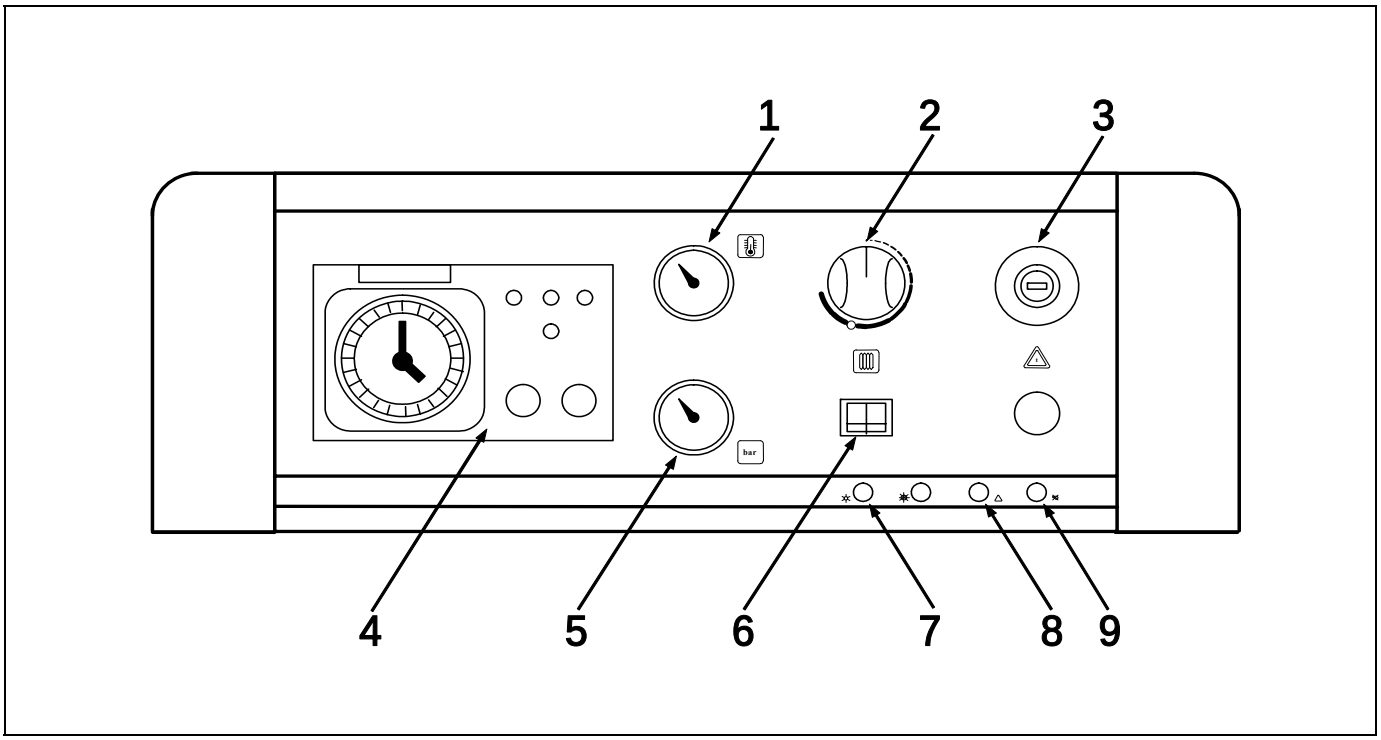
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1 LIST OF COMPONENTS



1. Thermometer.
2. Heating control thermostat.
3. Safety thermostat.
4. Control unit (Optional).
5. Manometer.
6. Main switch.
7. Winter pilot light.
8. Temperature cut-out pilot light.
9. Burner cut-out pilot light.
10. Burner. (Only for **Jaka HFD**)

2 CONTROL ELEMENTS



1. Thermometer:

This indicates the temperature of the water in the boiler.

2. Control thermostat:

This is for selecting the working temperature for water heating, and stopping the burner when the boiler reaches the selected temperature or keeping it switched on until this temperature is reached.

3. Safety thermostat:

This ensures the boiler temperature does not exceed 110 ºC, by switching it off when it reaches this temperature.

4. Control unit (Optional):

This optional element allows the installation temperatures to be adjusted depending on the requirements of the home and the outdoor temperature.

5. Manometer:

This indicates the pressure in the installation.

6. Master switch:

The "**O/I**" switch turns the boiler on and off. If your installation has a storage heater from the **DOMUSA TEKNIK Sanit** range, the "❄/☼" switch is for selecting either Summer mode (hot water only) or Winter mode (heating + hot water).

7. Winter mode pilot light:

This pilot light comes on to show that the boiler is on Winter mode (Heating and DHW).

8. Temperature safety cut-out pilot light:

This pilot light comes on to show that the boiler has switched off due to excess temperature (over 110 ºC).

9. Burner cut-out pilot light:

This pilot light comes on to show that the boiler has switched off due to a burner cut-out.

3 INSTALLATION INSTRUCTIONS

The boiler must be installed by personnel authorised by the Department of Industry in accordance with the applicable regulations and standards in force. However, the following recommendations must also be complied with when installing the boiler:

3.1 Location

The boiler must be installed in an enough ventilated room and sufficient access space must be maintained to carry out preventive or corrective maintenance operations.

3.2 Flue

This type of boiler must be connected to a flue. A flue is a fume outlet pipe able to generate a depression, which in the case of the **Jaka HFS** and **Jaka HFD** should be at least 1.5 mmca. In order for the flue to create a depression the following recommendations should be taken into account:

- It should be suitably heat-insulated.
- It should be fitted separately, with one flue for each boiler.
- It should be vertical and have no angles of over 45º.
- It should protrude one metre from the roof ridge or from any adjacent building.
- It should always have the same diameter. Ideally it should be circular, and its diameter must never be less than that of the boiler outlet.

However, flues must always be constructed in accordance with the installation regulations in force.

3.3 Removal of combustion products

The combustion product removal ducts must be installed by qualified personnel and must comply with current legislation and standards.

3.4 Hydraulic Installation

The hydraulic installation must be made by qualified personnel. The applicable installation legislation is to be complied with, and the following recommendations should also be taken into account:

- The inside of the installation piping should be thoroughly cleaned before switching on the boiler.
- We recommend inserting cut-off valves between the installation piping and the boiler, to simplify maintenance tasks.

3.5 Electrical connection

The boiler is designed to be connected to the mains at 220 V 50 Hz, using plugs 1 and 2. **Do not forget to earth the appliance.**

The boiler is provided with two terminals for connecting the room thermostat. To do this, remove the bridge joining terminals 3-4 and connect the room thermostat here.

The boiler is designed for a quick connection to be made to the burner using a 7-pole Euroconnector.

3.6 Oil Installation

The **Jaka HFD** boiler is supplied with a **Domestic** gas-oil burner (see model in Technical Characteristics).

The "**Domestic**" burner is equipped with a self-priming pump, which allows the aspiration of fuel from a tank installed at a lower level than the burner, as long as the vacuum measured with the vacuum gauge in the pump does not exceed 0,4 bat (30cmHg).

The suction of fuel must never reach the bottom of the tank, always leaving a minimum distance of 10 cm to the bottom, if possible, the suction kit with float is recommended.

In installations that allow it, the fuel returns must be made to a recirculation filter with air purge, thus avoiding oxidations in the diesel pump.

4 FILLING THE INSTALLATION

The installation must be provided with a fill valve for this purpose, with which it can be filled until a pressure of 1 - 1.5 bar appears on the manometer ***(5)***. It must be filed slowly, so that the air is released from the boiler. The rest of the installation must also be suitably drained using the air drain valves fitted for this purpose. When the installation has been filled, close the fill valve.

NOTE: Do not switch on the boiler without any water in it, as this can seriously damage it.

5 COMMISSIONING OF THE BOILER

In order for the **guarantee to be valid**, the boiler must be started up by an **authorised DOMUSA TEKNIK Technical Assistance Service**. The following must be complied with before starting it up:

- The boiler must be electrically connected to the mains.
- The installation is to be filled up with water (the manometer must indicate 1 - 1.5 bar).
- Fuel must be reaching the burner at a pressure of not over 0.5 bar.

To start up the boiler, set the master switch, the control thermostat, the timer and the room thermostat (where applicable) to the desired position.

6 DELIVERY AND INSTALLATION

After the initial start-up, the Technical Assistance Service will explain to the user how the boiler functions, informing of the most important points.

The installer is responsible for making clear to the user the functioning of any control or regulation device that forms part of the installation but is not supplied with the boiler.

7 SAFETY CUT-OUTS

The boiler is provided with two types of operational safety cut-out:

7.1 Temperature safety cut-out

This is indicated by the temperature cut-out pilot light ***(8)***. It is activated whenever the boiler exceeds a temperature of 110 ºC. To deactivate it, press the button on the safety thermostat ***(3)*** (you will first need to lift its cover).

7.2 Burner cut-out

This is indicated by the burner cut-out pilot light *(9)*. It is activated if any failure occurs in the burner or oil line. To deactivate it, press the illuminated button which lights up on the burner *(10)*.

NOTE: If either of these cut-out mechanisms is set off repeatedly, contact your nearest authorised Technical Assistance Service.

8 FUNCTIONING

Turn the control thermostat *(2)* and the room thermostat (if the boiler has one) to the desired temperature. Turn the master switch *(6)* to *"I"* and the summer/winter switch to winter position "❄". The burner and the pump will start up and run until the installation reaches the temperature pre-set on the control thermostat *(2)* (or on the room thermostat, if the boiler has one). When the installation temperature drops, the burner will start up again and perform the heating cycle.

8.1 Functioning with a Sanit storage heater

The **Jaka HFS** boiler may be installed together with a storage heater from the **DOMUSA TEKNIK Sanit** range, to obtain domestic hot water. To correctly install this element, carefully follow the assembly and connection instructions enclosed with the storage heater.

The boiler is equipped with a summer position/winter position selector switch. This switch can be used to choose between:

- **Summer position ☼:** in this position the boiler will only produce hot water as needed. The burner and the storage heater feed pump (summer pump) will be switched on until the hot water stored reaches the temperature set on the storage heater hot water thermostat. When this temperature is reached, the burner and the summer pump will switch off.

- **Winter position ❄:** in this position the boiler will produce hot water as needed and will also provide heating, giving priority to hot water production.

9 TIMER-BASED OPERATION (OPTIONAL)

The **JAKA HFS** boiler can optionally be supplied with a timer, to be mounted on the main board. Both the boiler and timer are equipped with an easy installation system, consisting of a 12-pole connector *(X12)*, as shown in the electrical diagram. Proceed as indicated in the assembly and operation instructions provided with the timer.

10 CONTROL UNIT-BASED OPERATION (OPTIONAL)

The **JAKA HFS** boiler may be supplied with an optional Control Unit **(E24 BVS)**.

Various sensors may be incorporated to this control unit, enabling it to regulate two independent heating zones: a circuit with a mixing valve (e.g. underfloor heating), and a direct circuit (e.g. radiators). The installation can thus be adjusted to suit the needs of a particular home by measuring the outside temperature and the room temperature inside the house in each of the two heating zones. The control unit can also adjust the hot water production of a storage heater connected to the boiler, giving priority to the hot water production.

Both the boiler and the control unit are provided with an quick installation system, consisting of a 12-pole connector *(X12)*, as shown in the Electrical Diagram. Proceed as indicated in the assembly and operation instructions enclosed with the control unit.

11 STOPPING THE BOILER

To stop the boiler, simply turn the master switch *(6)* to **"O"**.

12 BOILER MAINTENANCE

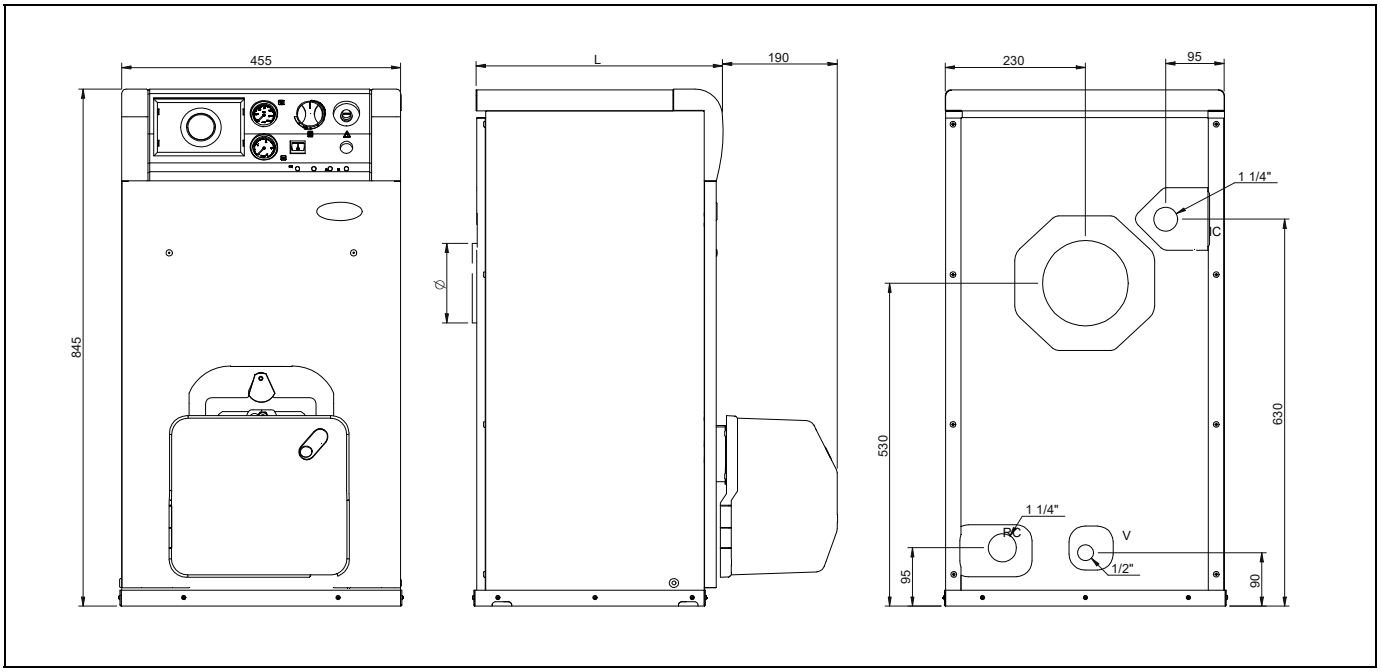
For the boiler to remain in perfect working order, an annual inspection should be carried out by a technician authorised by **DOMUSA TEKNIK**. However,

- It is recommendable to thoroughly clean the boiler chamber and flue pipes once a year.

- The installation pressure should be maintained between 1 and 1.5 bar.

13 DIAGRAMS AND DIMENSIONS

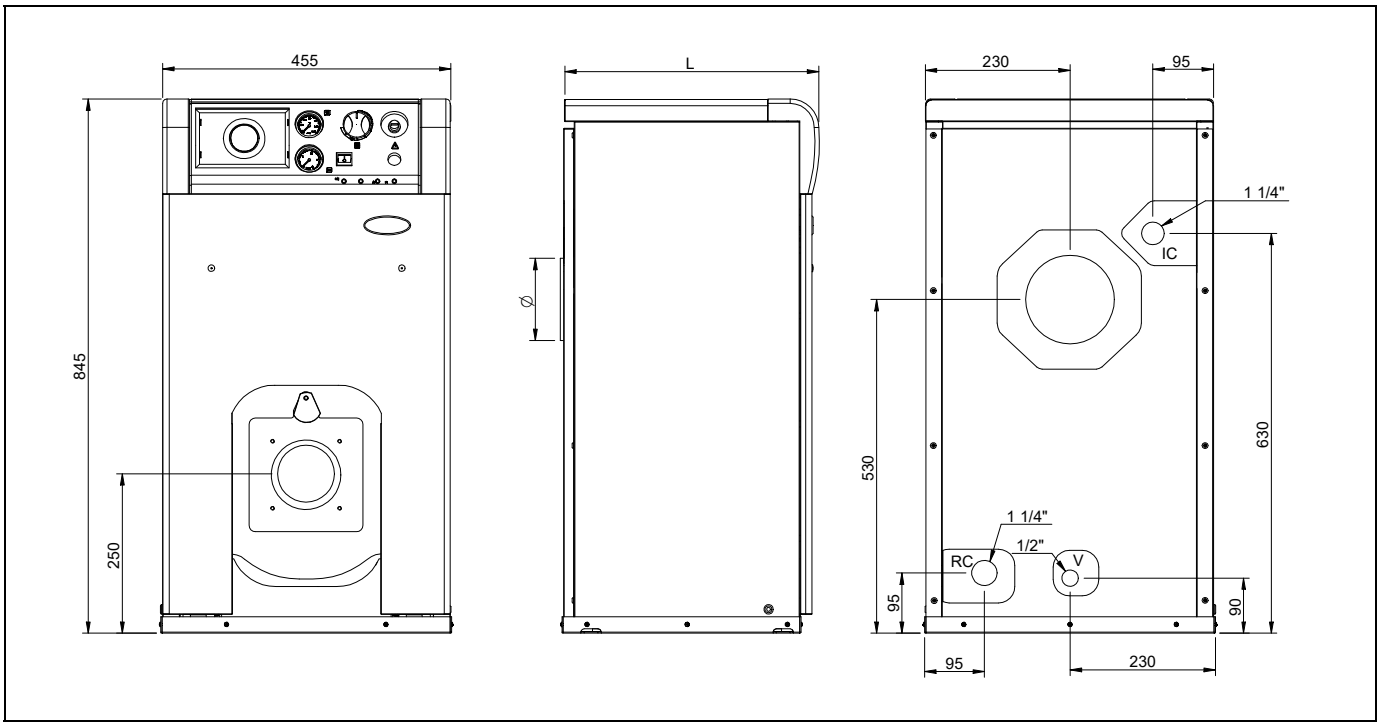
Jaka HFD:



IC: Heating outlet.
RC: Heating return.
V: Draining.

MODEL		HFD-30	HFD-40	HFD-50	HFD-60
MEAS.	mm	385	485	585	685
FLUE	mm	150	150	150	175

Jaka HFS:



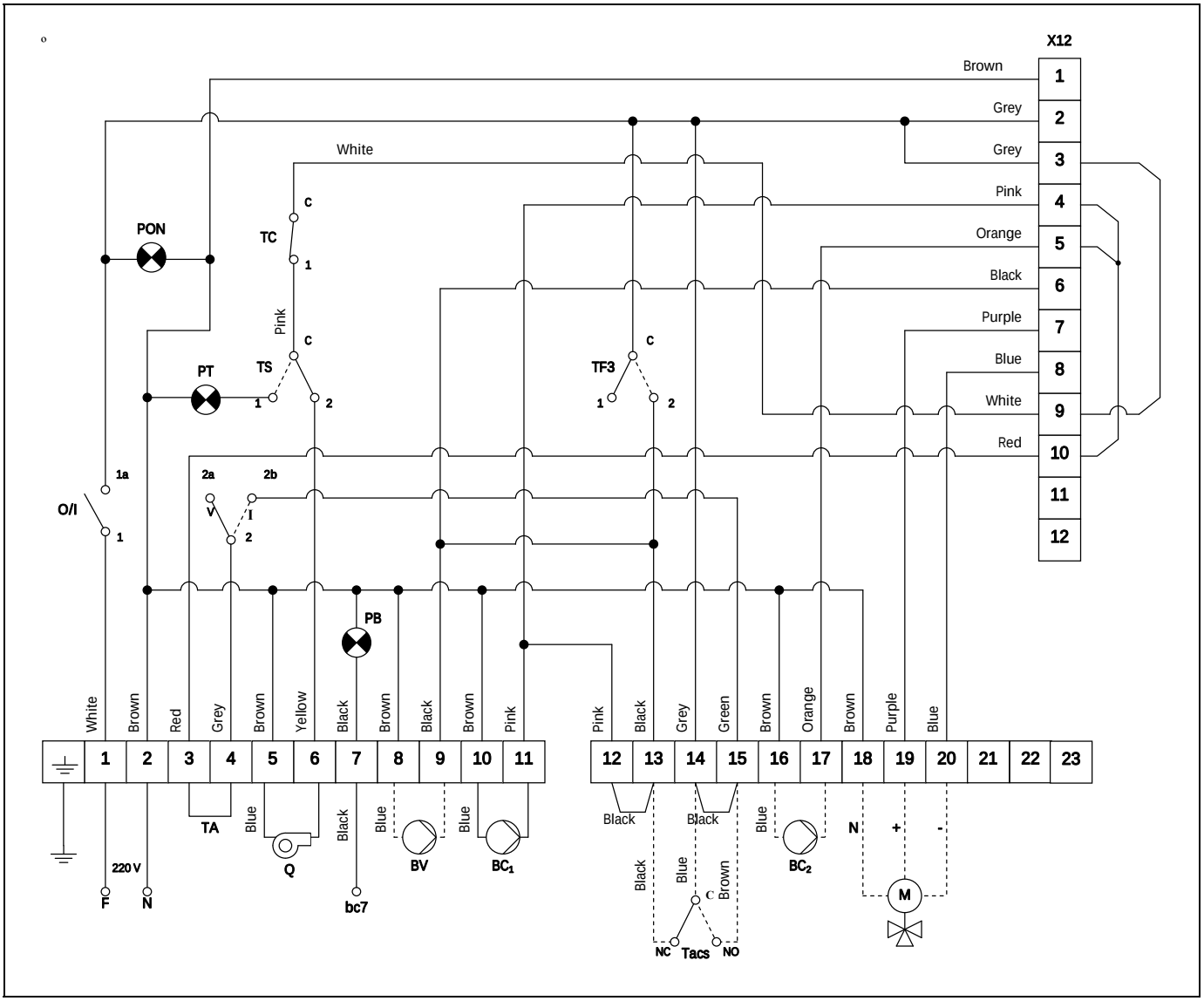
IC: Heating outlet.
RC: Heating return.
V: Draining.

MODEL		HFS-30	HFS-40	HFS-50	HFS-60
MEAS.	mm	385	485	585	685
FLUE	mm	150	150	150	175

14 TECHNICAL CHARACTERISTICS

JAKA HFD/HFS			30	40	50	60
Boiler type	-		Low temperature heating only			
Rated heat output	P_{rated}	kW	29	40	50	60
Useful heat output	P_4	kW	28,1	39,4	50,8	60,7
Useful heat output (30%)	P_1	kW	8,9	12,1	15,6	18,6
Seasonal space heating energy efficiency	η_S	%	86	87	86	86
Useful efficiency	η_4	%(PCI)	91,5	94,7	94,5	94,5
		%(PCS)	86,3	89,3	89,1	89,1
Useful efficiency (30%)	η_1	%(PCI)	97,5	97	96,3	96,3
		%(PCS)	92,0	91,4	90,8	90,8
Auxiliary electricity consumption at full load	el_{max}	kW	0,161	0,161	0,161	0,226
Auxiliary electricity consumption at part load	el_{min}	kW	0,056	0,056	0,056	0,078
Auxiliary electricity consumption in standby mode	PSB	kW	0,003	0,003	0,003	0,001
Standby heat loss	P_{stby}	kW	0,106	0,094	0,141	0,182
Emissions of nitrogen oxides	NOx	mg/kWh	85	100	112	110
Heating temperature adjustment	ºC		60-85			
Maximum safety temperature	ºC		110			
Maximum pressure for heating mode	bar		3			
Heating water volume	Lts		16,2	20,2	24,2	28,2
Water pressure drop	mbar		100	204	263	327
Fume temperature	ºC		213	213	208	200
Volume on fume side	m^3		0,011	0,017	0,023	0,029
Maximum fume flow	Kg/s		0,0132	0,0186	0,0245	0,0299
Fume pressure drop	mbar		0,17	0,18	0,20	0,22
Combustion chamber length	mm		300	400	500	600
Combustion chamber type	-		wet, with three fume outlets			
Burner adjustment type	-		ON/OFF			
Electrical supply	-		~220-230 V - 50 Hz - 200 W			
Gross weight	Kg		110	135	160	185

15 ELECTRICAL DIAGRAM



Q: Burner.

BV: Hot water pump (control unit option).

BC_1: Main heating circuit pump (with control unit, direct circuit).

BC_2: Optional heating circuit pump (with control unit, mixed circuit).

M: Valve motor (Control unit option).

O/I: On/Off Master Switch.

V/I: Summer/Winter Selector Switch.

TA: Room Thermostat.

TC: Control thermostat (on boiler).

TS: Safety thermostat (on boiler).

TF3: Anti-inertia thermostat (on boiler).

Tacs: Hot water thermostat (on storage heater).

PON: On pilot light.

PB: Burner cut-out pilot light.

PT: Temperature cut-out pilot light.

X12: 12-terminal connector for timer or control unit (Optional).

bc7: Burner control terminal nº 7.

16 BURNER

16.1 Assembly

Fix the burner support to the boiler, then fix the burner to the support. This will allow the correct tilt of the flame tube towards the combustion chamber. Fit the intake and return tubes, inserting the oil filter in the intake tube.

16.2 Fuel installation

The **"Domestic"** burner is equipped with a self-extracting pump, enabling fuel intake from a tank installed at a lower level than the burner, provided the pressure difference measured with the vacuum gauge at the pump does not exceed 0.4 bar (30 cmHg).

16.3 Burner start-up

Ensure there is fuel in the tank, that the oil valves are open and that there is an electric connection to the burner. Turn on the master switch. Unscrew the air bleed screw (manometer point). Then, when the valve opens, remove the photocell sensor and move it towards a light source until fuel comes out. Disconnect the burner and screw the bleed screw back in.

16.4 Adjusting the combustion conditions

Observe the flame. If there is insufficient combustion air, it will be dark in colour and will produce smoke, obstructing the flue outlet.

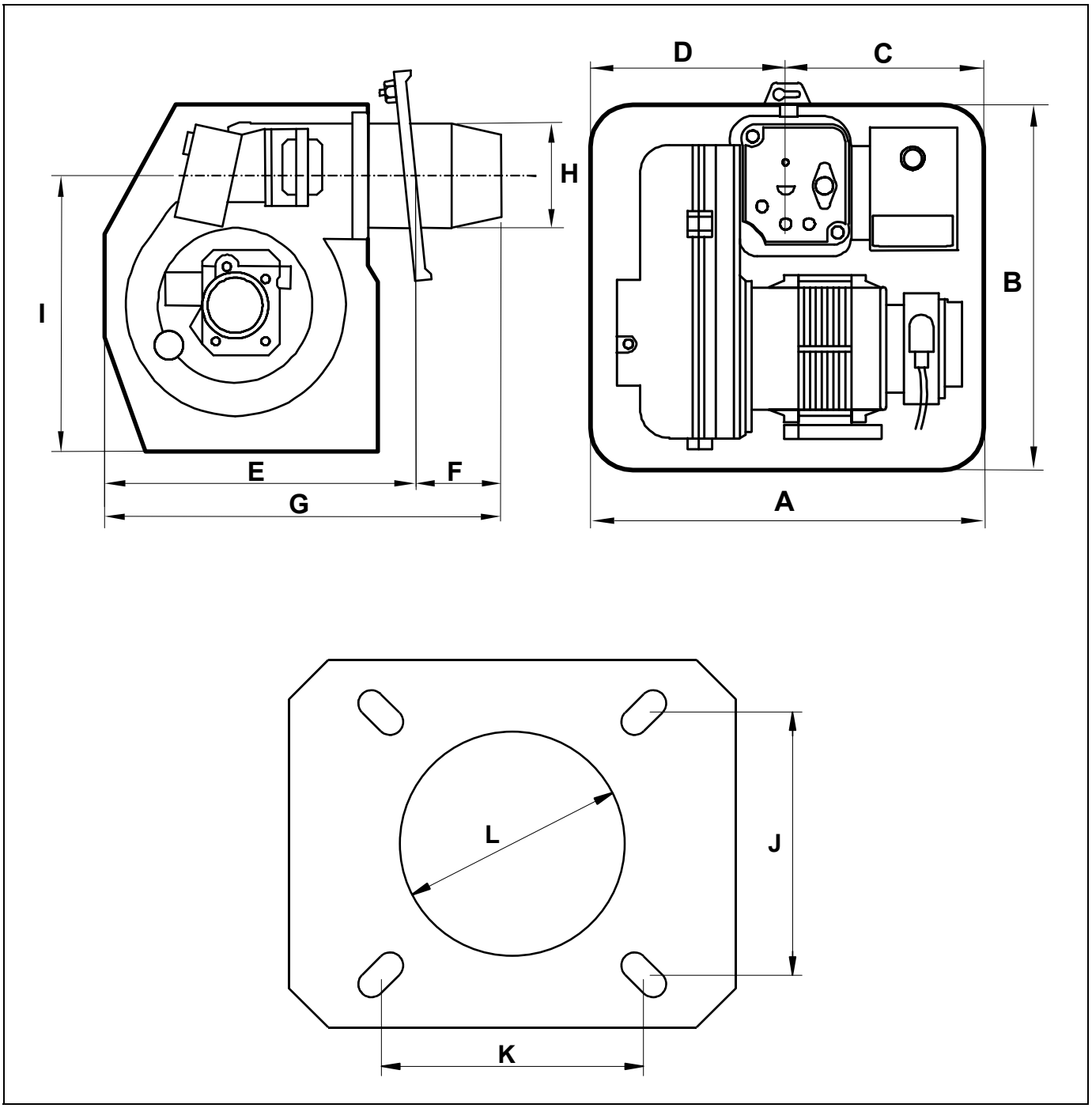
On the contrary, if there is an excess of combustion air, the flame will be pale or bluish in colour. This will reduce the performance of the boiler and it will fail to comply with anti-pollution standards, and the excess air may also hinder the ignition process.

The flame should be orange in colour.

If the shape of the boiler makes it difficult or impossible to observe the flame, the combustion air flow can be regulated by observing the smoke coming out of the flue. If the smoke is dark in colour, more air will need to be provided to the burner, and if it is very white, the air in the burner will need to be decreased until no smoke at all is observed.

If you have a device for determining the composition of the combustion gases, this will be the best guide for flame adjustment. If not, simply follow the above indications.

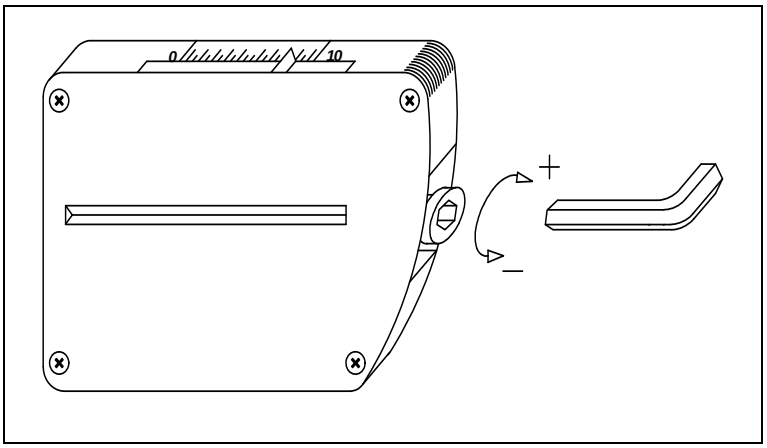
16.5 Dimensions



	A	B	C	D	E	F	G	H	I	J	K	L
(mm)	292	265	140	152	215	75	290	ø80	205	100	100	ø90

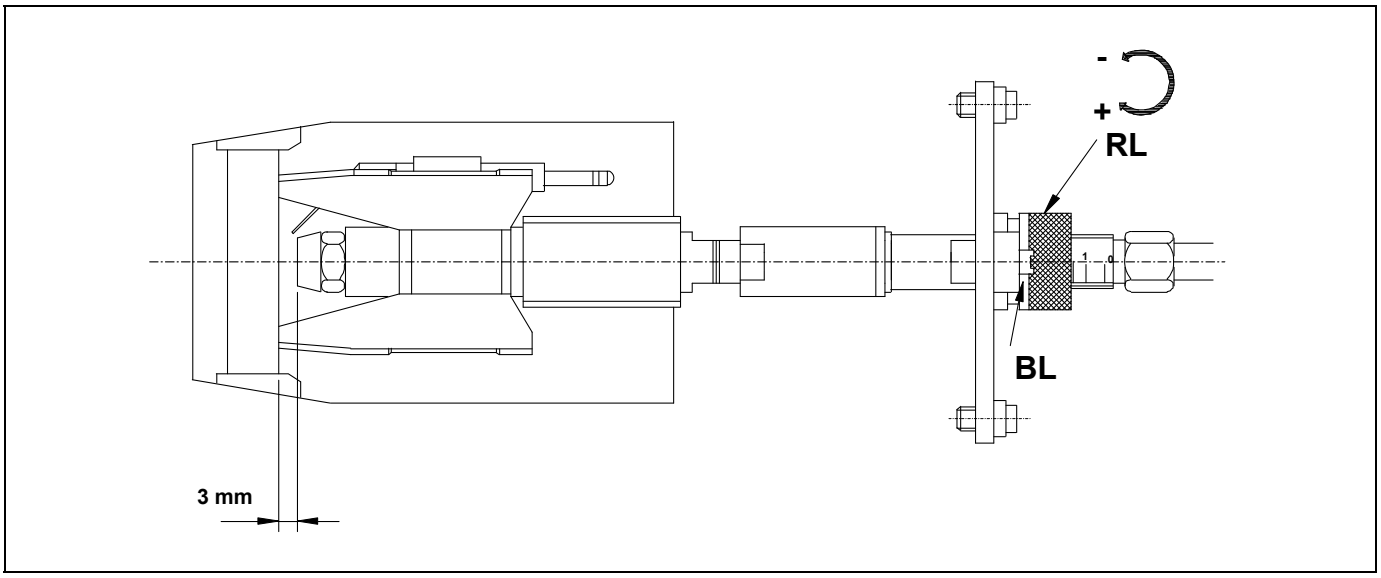
16.6 Primary air adjustment

To adjust the primary combustion air, turn the screw using a 6 mm. Allen key, as shown in the diagram. Turn it clockwise to increase the airflow, and anticlockwise to decrease it.



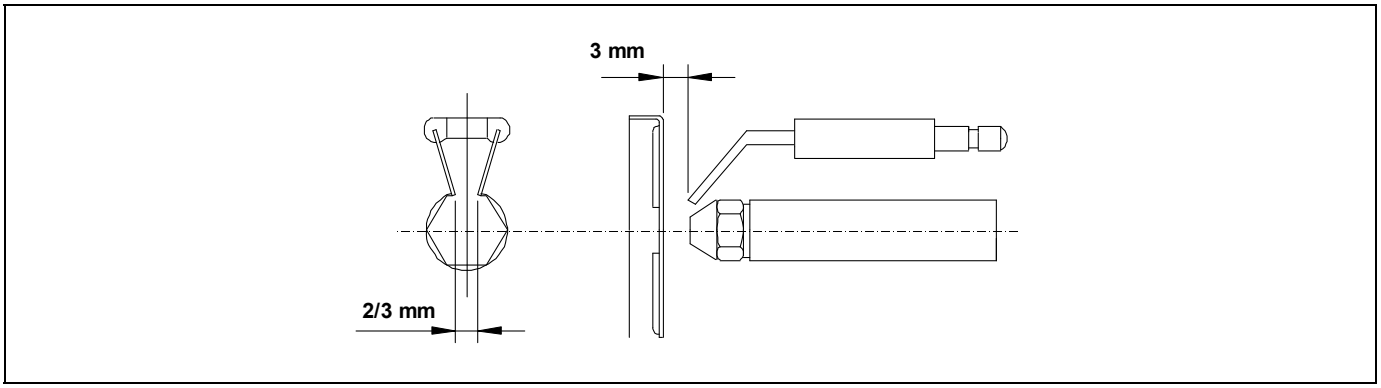
16.7 Combustion line adjustment

To adjust the combustion line, loosen the combustion line blocking screw **"BL".** Turn the line regulator **"RL"** clockwise to increase the airflow and anticlockwise to decrease it. After adjustment, tighten the combustion line blocking screw **"BL"**.



16.8 Correct position of electrodes

To ensure correct ignition of the **"Domestic"** burner, the measurements shown in the diagram must be observed. Also ensure the electrode fixing screws have been screwed in place before replacing the flame tube.



16.9 Oil pressure adjustment

To adjust the oil pump pressure, turn the screw *(1)* clockwise to increase the pressure, and anticlockwise to decrease it

1 - Pressure adjustment.

2 - Vacuum gauge point.

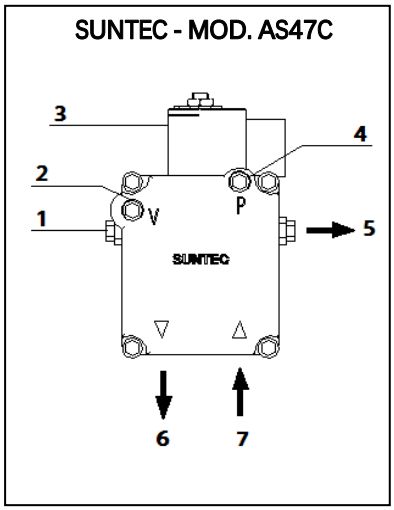
3 - Valve.

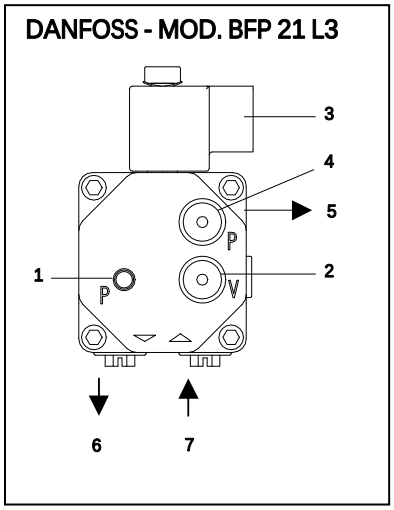
4 - Manometer point.

5 - Nozzle outlet.

6 - Return.

7 - Intake.

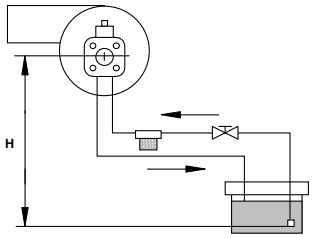




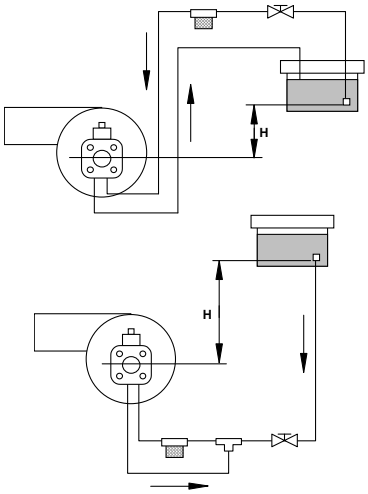
16.10 Oil supply piping diagrams

The diagrams and tables below correspond to installations without reductions and with a perfect hydraulic seal. It is recommended to use copper pipes. A pressure drop of 0.4 bar (30 cmHg) must not be exceeded.

Intake installation



Charging installation



Intake installation		
H (m)	Pipe length	
	∅int 8 mm.	∅int 10 mm.
0,0	25	60
0,5	21	50
1,0	18	44
1,5	15	38
2,0	12	26
2,5	10	26
3,0	8	20
3,5	6	16

Charging installation		
H (m)	Pipe length	
	∅int 8 mm.	∅int 10 mm.
0,5	10	20
1,0	20	40
1,5	40	80
2,0	60	100

16.11 Technical specifications

MODEL	JAKA HFD 30	JAKA HFD 40	JAKA HFD 50	JAKA HFD 60
Consumption max. Kg/h.	2,4	3,4	4,2	5
Power kW.	29	40	50	60
Motor power	110 W			200 W
Functioning type	All or nothing			
Power supply	220 V - 50 Hz			

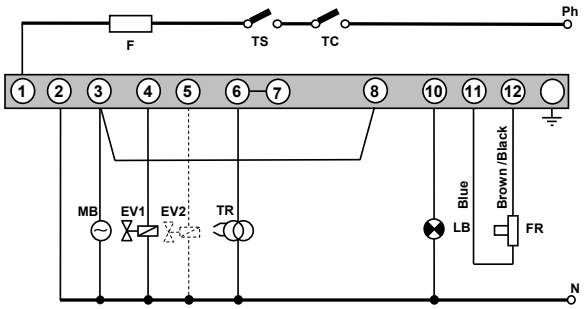
16.12 Recommended nozzle and pump pressure

Jaka boilers are supplied with the burner fitted, with their corresponding nozzle and with the standard pre-adjustment. The following table shows the nozzles and adjustments for each particular model:

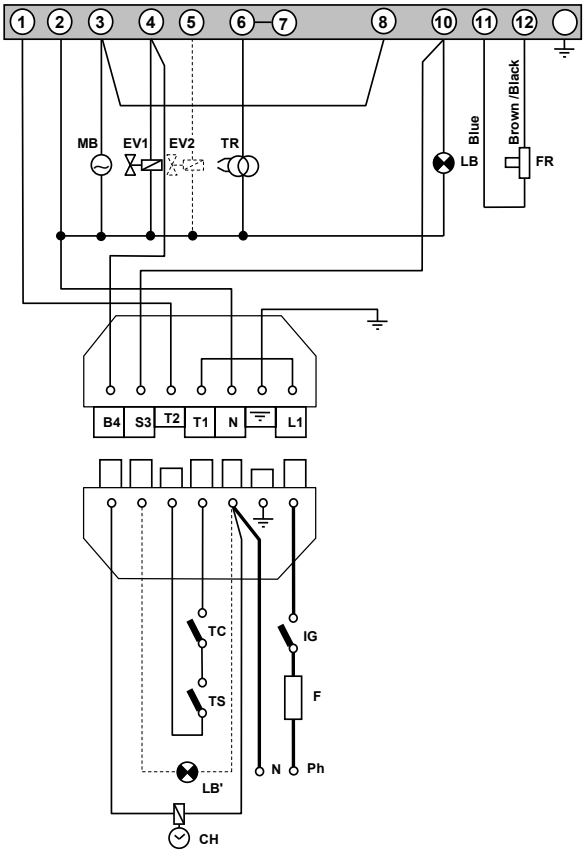
MODEL	Nozzle	Burner pressure (bar)	Air adjustment	Line adjustment
JAKA HFD 30	0.60 60º H	11.5	3,5	2
JAKA HFD 40	0.75 60º S	13,5	5	1.5
JAKA HFD 50	1.00 45º H	13	3.5	3
JAKA HFD 60	1.35 60º S	10	3.5	1.5

16.13 Electrical connection diagram

WITH CONNECTOR



WITHOUT CONNECTOR

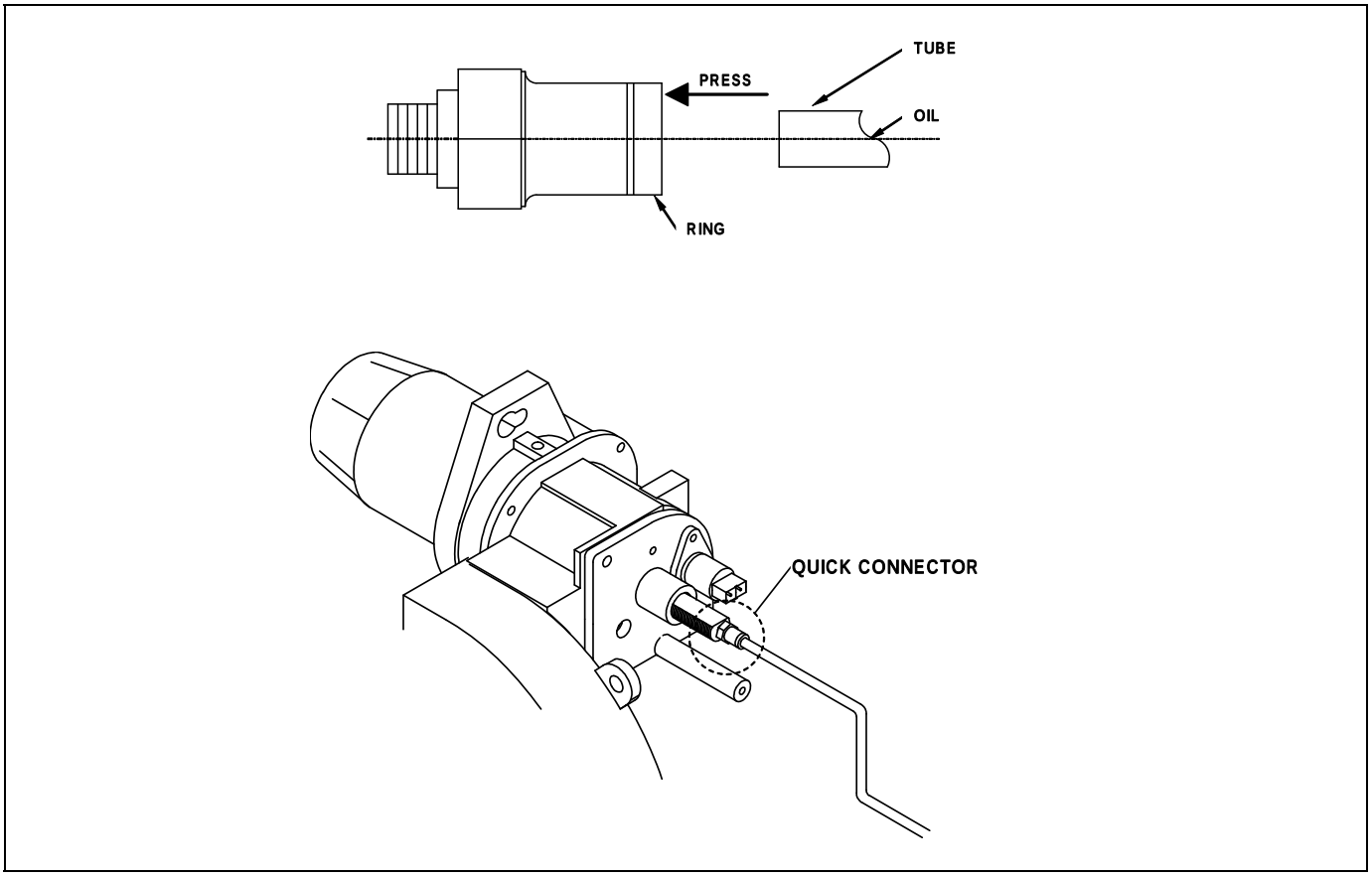


B4: Contact of hour-counter.
S3: Contact of blocking lamp.
TC: Boiler Thermostat.
TS: Safety Thermostat.
CH: Hour-counter.
IG: Main switch
F: Fuse.
LB: Cut-off Light.
LB': External Cut-off Light.
FR: Photocell.
TR: Transformer.
MB: Oil Pump Motor.
MB': Auxiliar oil Pump Motor.
EV: Valve.
Ph: Phase.
N: Neutral.

16.14 Quick connector

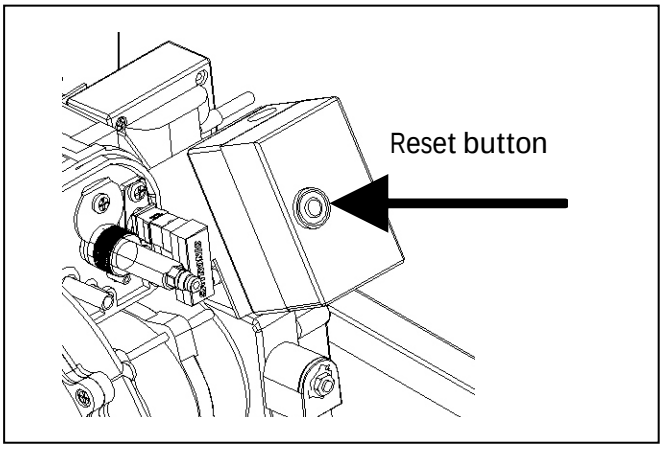
To connect and disconnect the red oil intake tube to the nozzle, proceed as follows:

- Press the connector ring in the direction of the arrow, pulling on the red tube at the same time.



16.15 Burner control operating sequence

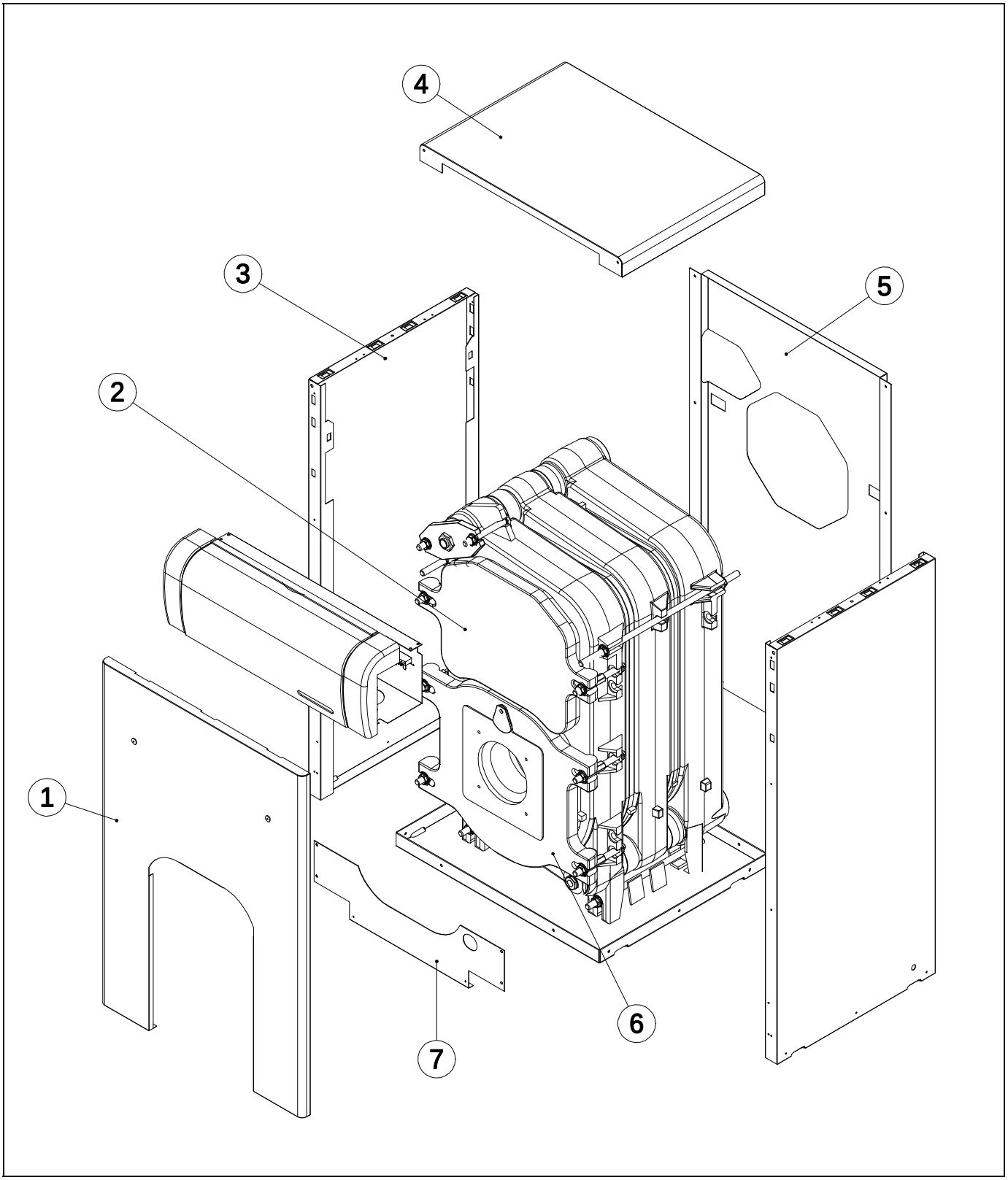
The burner's LMO control box has a reset button which is the key element for resetting the burner control and activating/deactivating the diagnosis functions.
The multi-colour LED on the reset button is the indicator for visual diagnosis. The button and the LED are located under the transparent cover of the reset button. During normal functioning, the various operating statuses are indicated in the form of colour codes (see the colour code table below). During ignition, the indication is as shown in the following table:



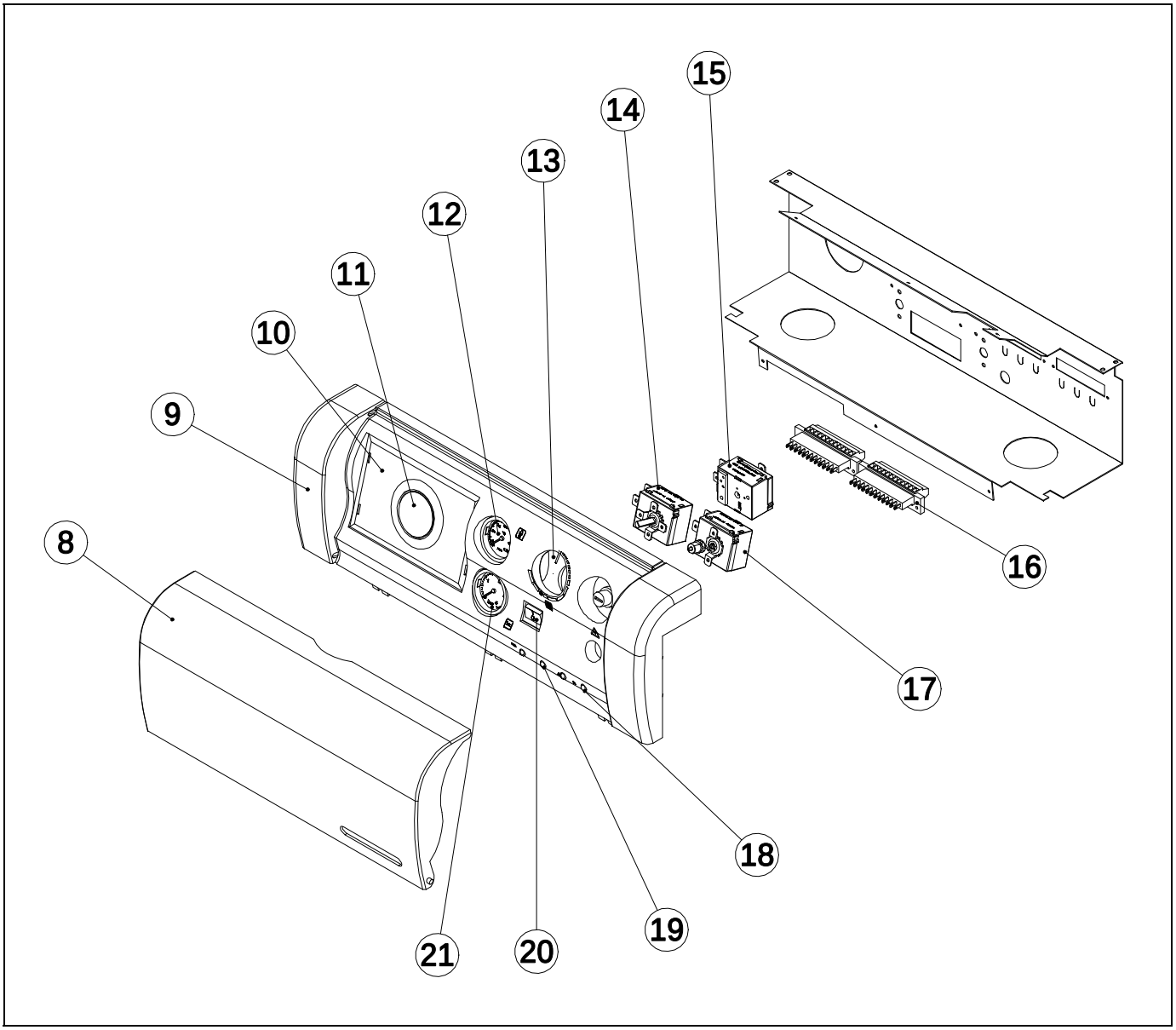
Colour code table for multi-colour indicator lights (LEDs)		
Status	**Colour code**	**Colour**
Wait time "tw", other stanby statues	○	Off
Fuel pre-heater on	●.....	Yellow
Ignition phase, controlled ignition	● ○ ● ○ ● ○ ● ○ ● ○	Flashing yellow
Functioning, flame Ok	□	Green
Functioning. flame not OK	□ ○ □ ○ □ ○ □ ○ □ ○	Flashing green
External light during burner ignition	□ ▲ □ ▲ □ ▲ □ ▲ □ ▲	Red/green
Undervoltage	● ▲ ● ▲ ● ▲ ● ▲ ●	Yellow/red
Failure, alarm	▲	Red
Error code output (see "Error code table")	▲○ ▲○ ▲○ ▲○ ▲○	Flashing red
Interface diagnosis	▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲	Flashing red light

..... Steady light
○ Off
▲ Red
● Yellow
□ Green

17 SPARE PARTS LIST



Jaka HFD / HFS



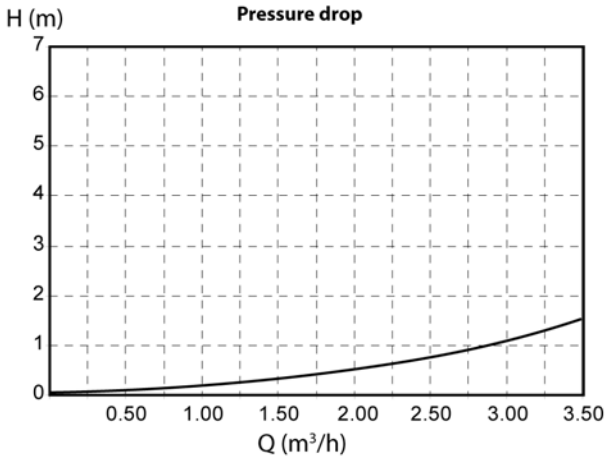
Pos.	Code	Name
1	SEPO002314	Jaka HFS front panel
2	CFUC000028	Fume inspection cover
3	SEPO002316	Jaka HFS/HFD-30 side panel
	SEPO002350	Jaka HFS/HFD-40 side panel
	SEPO002348	Jaka HFS/HFD-50 side panel
	SEPO002332	Jaka HFS/HFD-60 side panel
4	SEPO002317	Jaka HFS/HFD-30 top cover
	SEPO002349	Jaka HFS/HFD-40 top cover
	SEPO002347	Jaka HFS/HFD-50 top cover
	SEPO002331	Jaka HFS/HFD-60 top cover
5	CEXT000645	Jaka rear panel
6	CFUC000027	Burner support door

Pos.	Code	Name
7	SEPO002315	Base cover
8	CELC000175	Control panel cover
9	CELC000172	Control panel
10	CELC000178	Control unit cover
11	CELC000177	Extension without timer
12	CELC000136	Thermometer
13	CELC000176	Temperature selection knob
14	CELC000007	Control thermostat
15	CELC000034	Anti-inertia thermostat
16	CELC000042	12-pole terminal block
17	CELC000022	Safety thermostat
18	CELC000039	Red pilot light
19	CELC000040	Amber pilot light
20	CELC000138	Main switch
21	CELC000137	Manometer

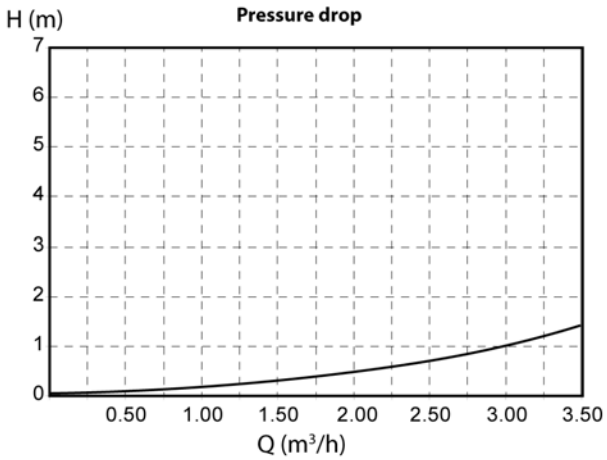
18 BOILER'S WATER PRESSURE DROP DIAGRAMS

Within the following diagrams it is possible to calculate the pressure drop of each model of boiler:

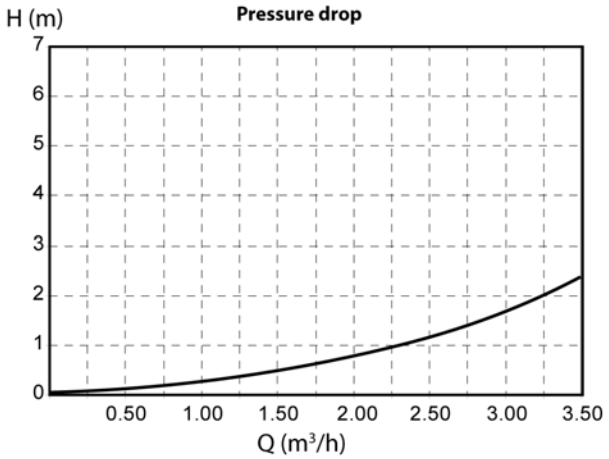
Jaka HFS / HFD 30



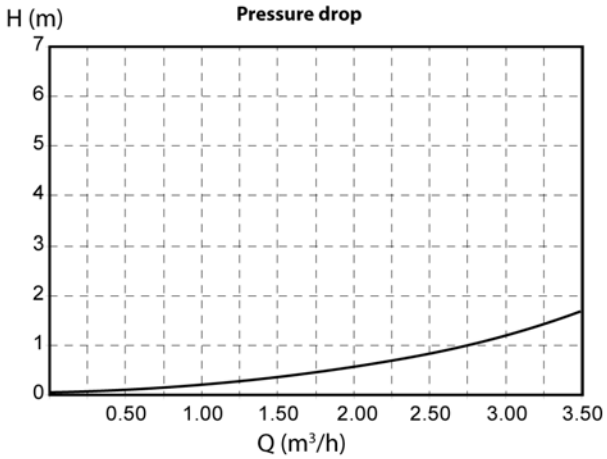
Jaka HFS / HFD 40



Jaka HFS / HFD 50



Jaka HFS / HFD 60



19 TROUBLESHOOTING

This section provides a list of the most common burner and boiler failures.

19.1 Burner failures

We have already mentioned that the burner is equipped with a cut-out system, indicated by a light. It may cut out accidentally, in which case the button light will come on. It can be unblocked by pressing the button.

FAILURE	CAUSE	SOLUTION
BURNER DOES NOT IGNITE	- Fuel valve closed	Open it
	- No electricity supply to boiler	Check it
	- Nozzle defective or dirty	Replace or clean it
	- Electrodes badly adjusted	Adjust them
	- Timer on automatic	Turn it to manual
	- Room or boiler thermostat badly adjusted	Correctly adjust it
FREQUENT CUT-OUT	- Nozzle defective	Replace it
	- Photoelectric cell dirty	Clean it
	- Fume circuit obstructed	Clean it
	- Installation oil filter or burner pump oil filter dirty	Clean it

19.2 Boiler failures

FAILURE	CAUSE	SOLUTION
RADIATOR DOES NOT HEAT UP	- The pump is not turning	Unblock the pump
	- Air in hydraulic circuit	Drain the installation and the boiler (the automatic air drain valve cap must always be loose)
EXCESSIVE NOISE	- Burner badly adjusted	Adjust it correctly
	- Flue not correctly sealed	Eliminate any leaks
	- Flame unstable	Examine the burner
	- Flue not insulated	Suitably insulate it

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DOMUSA TEKNIK

POSTAL ADDRESS
Apartado 95
20730 AZPEITIA
Spain

HEADQUARTERS & FACTORY
Bº San Esteban s/n
20737 ERREZIL (Gipuzkoa)
Tel: (+34) 943 813 899

www.domusateknik.com

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CDOC001330 26/02/2026