INSTALLATIEVOORSCHRIFT EN GEBRUIKERSHANDLEIDING NL/BE

INSTRUCTIONS FOR INSTALLATION AND OPERATION GB/IE

INSTALLATIONSVORSCHRIFT UND GEBRAUCHSANWEISUNG DE/AT/BE/LU/CH

INSTRUCTIONS D'INSTALLATION ET MODE D'EMPLOI FR/BE/LU/CH

NORME PER L'INSTALLAZIONE E INSTRUZIONE PER L'USO IT

MANUAL DE INSTALACIÓN Y GUÍA DEL USUARIO ES

INSTRUÇÔES DE INSTALAÇÂO E O INSTRUÇÂO PO

DRU-ART 2
DRU-ART 3
DRU-ART 4
DRU-ART 5
DRU-ART 6
DRU-ART 8-01
DRU-ART 10-01

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Please retain this document carefully
Bewahren Sie dieses Dokument sorgfältig auf
Conservez soigneusement cette notice
Conservare con cura uesto manuale dell'utente
Guarde cuidadosamente esta guía para el usuario
Conserva esta instruçâo cuidadosamente.

DRU VERWARMING B.V.
HOLLAND

957.475.08

Hierbij verklaren wij dat de DRU modellen ART in overeenstemming zijn met het CE type-onderzoekscertificaat E 1490 en dat zij voldoen aan de Europese richtlijn inzake gastoestellen 90/396/EEC.

We here by declare that the DRU models ART are in conformity with the types as described in EC type-certificate E 1490 and that they are in compliance with the European Council gas appliance directive 90/396/EEC.

Hiermit erklären wir, dass die DRU-Modelle ART mit dem CE Typen-Untersuchungszertifikat übereinstimmen E 1490 und dass diese den Richtlinien für Gasgeräte 90/396/EEG entsprechen.

Nous déclarons par la présente que les modèles DRU ART sont conformes au certificat d'examen de type CE E 1490 et qu'ils satisfont à la directive européenne relative aux appareils à gaz 90/396/CEE.

Con la presente dichiariamo che i modelli DRU ART sono conformi al Certificato di esame CE di tipo E 1490 e soddisfano i requisiti della direttiva europea 90/396/CEE in materia di apparecchi a gas.

Por la presente declaramos que los modelos de DRU ART están en conformidad con el tipo descrito en el certificado de examen CE de tipo E 1490 y que cumplen con la Directiva Europea relativa a los aparatos de gas 90/396/EEC.

Pelo presente declaramos que os modelos de DRU ART estão em conformidade com o tipo descrito no certificado de exame de CE de tipo E 1490 e que cumprem a Directiva Europeia respeitante aos aparelhos a gás 90/396/EEC.

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Foreword

Dear Customer,

We would like to thank you for buying this DRU product. Our products have been designed and produced to meet the highest possible quality, performance and safety requirements, allowing you to enjoy years of problem-free use.

In this booklet you will find instructions for the installation and use of your new appliance. Please read these instructions and the manual carefully to familiarize yourself with the appliance. If you require any further support, please do not hesitate to contact your supplier.

Unpacking

Once the heater has been unpacked, all packaging should be disposed of in the regular manner.

Connection

This appliance should be connected by a registered installer.

INSTRUCTIONS FOR INSTALLATION

Type of gas

This appliance can only be used and is only suitable for the country and the type of gas mentioned on the type identification tag. Please check that the local gas and pressure correspond with the specifications on the type identification tag. All regulations regarding gas installation, including any local regulations, must be observed at all times. The appliance is to be installed by a competend person.

To operate the heater suitable for natural gas on bultane or propane, it should be converted by a competend person. A conversion set can be ordered through your supplier.

Important

- Keep curtains and any other flammable materials at least 50cm away form the appliance.
- Caution! Touching the heater when hot can cause burns and blisters!
- The appliance should be installed and maintained by a registered installer.
- Do not install any so-called dust filter on or under the casing.
- Do not hang wet clothes and towels etc. on the heater to dry.

General

The appliance can be mounted either on a wall of incombustible material (e.g. stone or concrete) or on a wall of combustible material (e.g. wood).

Installation to a wall of non-flammable material (fig. 7, 9, 11, pg. 58-60)

DRU-ART Models 2, 3 and 4 can are suitable for hanging installation only, DRU-ART Models 5, 6, 8 and 10 are suitable for either hanging or freestanding installation. Allow at least 1 metre's clearance above the heater to enable sufficient heat circulation. When installed hanging, at least 1 m free space should be kept above the appliance to allow sufficient heat dissipation. When intalled standing, the bottom of the mounting sheet (2) should stand on the floor, this is the minimum height between the floor and centre of wall duct (size F. fig 7, 9, 11, pg. 58-60).

The mounting plate (2) serves as a template to mark the position of the duct. To be able to hang the casing over the interior, a minimal clearance of 25 mm must be allowed between the appliance and a windowsill or suchlike. The minimum clear installation height (Y) required for each of the various models is listed in the table on page 61.

The standard wall duct

Drill a horizontal hole in the wall, ø E to take the air-supply pipe. The wall duct should slope at an angle of approx. 2°.

The standard wall duct is suitable for walls with a thickness of 50 – 330 mm and the standard extended wall duct for walls with a thickness of 50 – 600 mm. Depending on the thickness of the wall, the inlet and outlet pipes should be made to length, i.e.:

	Length of inlet pipe	Length of outlet pipe
DRU-ART 2	Thickness of wall + 20mm	Thickness of wall + 40mm
DRU-ART 3, 4	Thickness of wall + 20mm	Thickness of wall + 30mm
DRU-ART 5, 6	Thickness of wall + 20mm	Thickness of wall + 70mm
DRU-ART 8,10	Thickness of wall + 20mm	Thickness of wall + 35mm

The tension members fixed to the wall grid can be made to size after installation

Installation of the standard exterior wall duct (fig. 1, 3, 5, page 57/58)

Slide the adjusted inlet pipe (1) through the mounting sheet (2), with the turned-back edge facing the mark (45° top left) in the mounting sheet. Slide the sealing ring (3) and the wall ring (4) around the inlet pipe, paying attention to the order (see figure). Take the whole and slide the inlet pipe into the wall opening. Press the mounting sheet up to the wall. Press the inlet pipe back in such a way that the end of the pipe is level with the turned-back edge of the mounting sheet.

From the outside, bring the wall grid with its attached tension members into the inlet pipe. Bend the tension members a little outwards, so that they will jam slightly in the inlet pipe, keeping the grid in its place. Keep the mark "Top" up when placing the wall grid. Slide the two fastening clamps (5) over the tension members (6), taking care that the fastening clamps catch on the turned-back edge of the

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mounting sheet. Fix the screw-nuts onto the tension members and tighten them by hand. Place the fastening clamps onto the horizontal centre line of the inlet pipe. See also the marks in the mounting sheet.

The exterior wall duct with telescopic inlet pipe

This is suitable for wall thicknesses of 250 – 440 mm without shortening the parts of the inlet pipe. By shortening the pipe's parts, this exterior wall duct can be adapted for thicknesses of 70 – 250 mm. The outlet pipe should be adjusted. The tension members attached to the wall grid can be shortened after the wall duct has been mounted. If the telescopic inlet pipe is applied for wall thicknesses of 70 – 250 mm, both parts of the pipe should be shortened, i.e.:

- the part of the inlet pipe on the side of the wall grid equal to the thickness of the wall
- the part of the pipe on the side of the heater to a length equalling the wall thickness minus 20 mm.

CAUTION: do not cut the pipe parts on the side where the fastening clamps have been applied.

Installation of the wall duct with telescopic inlet pipe (fig. 1, 3, 5, page 57/58)

From the outside, put the wall grid, together with the attached half inlet pipe into the created wall opening, keeping "Top" up when placing the wall grid. Slide the other half of the inlet pipe through the mounting sheet (2), making sure that the inserted fastening clamps (5) lie on the horizontal centre line (see the marks in the mounting sheet). They should catch on the turned-back edge of the mounting sheet.

Attach the sealing ring (3) and the wall ring (4) to the half inlet pipe (see ffigure for the correct order). Take the whole and, from the inside, slide the half inlet pipe through the created wall opening into the part of the inlet pipe already mounted. While doing so, make sure the the two tension members (6) stick through the fastening clamps. Press the mounting sheet up to the wall. Appply the screw-nuts onto the tension members (6) and tighten them by hand against the fastening clamps (5).

Fastening the mounting sheet (fig. 1, 3, 5, page 57/58)

Caution: Level the mounting sheet, make sure that the inlet pipe goes down towards the outside. (1 cm to 1 m) and that the wall grid lies straight against the exterior wall. Then, any condensation will never get into the heater because of the downwards flow of the pipe.

- Now tighten the screw nuts on the tension members
- Saw or cut the tension members so that they do not stick out from the fastening clamps (5).
- Drill the hole for the key bolt (7).
- Attach the key bolt and attach the mounting sheet using the bolt (8) and washer (9).

Installation to a wall of inflammable material (fig. 8, 10, 12, page 59/60)

When the appliance is installed to a wall of flammable material, the wall duct should be executed as follows.

- On the spot of the duct, create a square opening in the wall (□ M mm).
- In the case of compressible walls, fill up the space all round the opening well, so that the wall cannot be crushed.
- In addition, replace the bolt (8) by e.g. a wood screwed bolt.
- On the room side, put the heat shield (14) between the mounting sheet (2) and the wall.
- On the outside of the wall, using 4 screws (16), attach siluminplate (15).

The heat shield (14) and the silumin plate (15) are packed together and are available from your dealer. Assembling the wall duct is otherwise the same as previously described.

N.B. To calculate the length of the inlet and outlet pipe, the thickness of siluminplate (15) should be included.

Installation of the interior (fig.2, 4, 6, page 57/58)

Slide the adjusted outlet pipe into the grid opening. Slide the two Silicon Rubber Tulles (packed with the glass silk rope) over the bolts (10) and into the holes of the back plate.
This prevents possible dirt and deposit from settling onto the wall. Take the interior and put it with the bottom edge on the two supports of the mounting sheet. Keep the interior balanced and slide the outlet pipe a little bit into the outlet opening of the interior for support. Now slide the interior against the mounting sheet, taking care that the turned-back edge of the mounting sheet fits into the inlet bush on the back side of the interior and that the bolts (10) stick through the clamps (11). Attach screw nuts and washers to the bolts (10) and tighten closely up to the stop. Then slide the screw spindle (12) into the clamp (13). Fix the screw nut and washer to the screw spindle (12) and tighten until the interior is standing parallel to the wall.

N.B. If easy accessible, e.g. on the ground floor, the outlet pipe can also be mounted from the outside after the grid interior sheet and the basket have been disassembled.

DRU-ART 3 and 4:
After fitting heat-exchanger fix thermostat phial in clip provided at rear of backplat (R.H.S.).

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Connection of the gas supply

For the different types are the connections as mentioned below:

- DRU-ART 2, 5, 6, 8, 10 3/8" inner thread
- DRU-ART 3, 4 3/8" outer thread

If the supply pipe enters the appliance through the back plate, press out the disc in the plate. An approved connecting tap with coupling should be used in the supply pipe (For Belgium this should be B.G.V. approved). The connecting tap with coupling should be fitted outside the casing. Furthermore:

- Expel all air from the supply pipes/hoses before coupling to the appliance.
- Do not turn the coupling tap when connecting it to the gas supply.
- Avoid any pressure on the control tap and pipes.
- Check that all connections are gastight.

Operations

The manufacturer has made the appliance suitable for the type of gas as indicated on the type identification tag. The thermostat regulates modulatingly between "full power setting" and "low power setting" and , when little heat is required, in two settings, i.e. "low" or "off". In this situation, the pilot light keeps burning. The "low" setting can only be checked when the room temperature is higher than ± 15°C (60°F).

The low setting

The low setting has been adjusted to ± 20% of the full consumption. The low setting screw has been fully tightened and is supplied with the correct low setting bore. This is not adjustable.

Pilot light burner

Upon delivery, the pilot light burner has the correct consumption by means of a nozzle inside the pilot light burner. The pilot light burner needs no adjustment.

Putting the casing in its place

From the top, hang the casing over the back sheet, taking care that the hooks of the casing fit into the notches of the back sheet and that the operating buttons fit into the appropriate opening in the casing.

Important

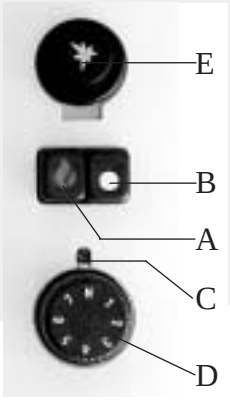
A built-in safety lock is activated when the appliance is switched to "OFF" (closed down setting). Therefore, wait **5 minutes** before relighting the heater. Within this period, do not try to push the lighting button, as this has been blocked by the safety lock. Do not force the button, as this may result in damage to the mechanism.

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OPERATING INSTRUCTIONS DRU-ART 2 – 6

The buttons to operate the appliance have been placed behind the flap on the heater front.

Lighting



Press and hold button A (with the symbol). Press the ignition button E (with the symbol) once or twice to light the pilot burner. Check that the pilot flame is alight (behind the glass on the front). Once the pilot light is burning, hold button A for another 10 seconds. Then release button A and check that the pilot light is still burning. The main burner could be ignited by the pilot light immediately after button A has been released, depending on the thermostat setting, button D, and the room temperature.

Temperature control

The thermostat setting, button D, will determine the temperature in the room. Setting 7 - with '7' opposite the indicator (C) - will give the highest temperature and setting 1 the lowest. The thermostat regulates the heater in modulation between HIGH and LOW burner settings and, if only a little warmth is required, between LOW and N. The thermostat automatically keeps the room at the required temperature.
There is absolutely no objection to the appliance staying on overnight, it is fully protected.
The thermostat has a frost-protection setting. This is setting N on the thermostat control D. If the ambient temperature drops below 10 °C, the valve will automatically open; the heater will then heat the room to 10 °C. If this is not required, the heater should be switched off.

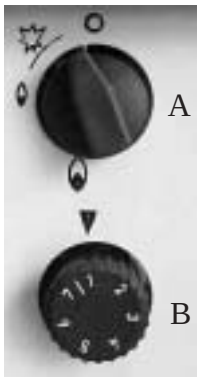
Switching off

Press button B (with the symbol o). The gas supply to both the main and the pilot burners is then switched off.

OPERATING INSTRUCTIONS DRU-ART 8 AND 10

The buttons to operate the appliance have been placed behind the flap on the righthand side of the heater front.

Lighting



Press button A and turn to the left towards the small flame .
At the heater will ignite. Check if the pilot light burns behind the window. If the pilot burns, keep button A pressed fully down for another 5 seconds. Then release button A and check if the pilot light keeps burning. Now turn button A towards the big flame . This will open the main valve of the regulation block.

Temperature control

By turning control button B to the left (to mark 7), the set temperature will rise, by turning the button to the right (towards mark 1), the set temperature will fall. The thermostat regulates modulatingly between full power setting and low power setting and keeps the room at the temperature set by you. The heater can be kept burning uncontrolled as it is fully protected.

Pilot light setting

When the heater is not in use, but the pilot light has to be kept burning, button A can be turned towards the small flame. In this way, the gas supply to the main burner will be turned off.

Switching off

Turn button A towards the "0" setting. The gas supply to the burners will then be turned off.

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GENERAL NOTES

Gas Safety Regulations (for installation & use) 1998

In your own interest and that of safety, it is law that all gas appliances are installed by competent persons in accordance with the above regulations. Failure to install appliances correctly could lead to prosecution.

NB: The Confederation of Registered Gas Installers, whose members are identified by the emblem shown here, are all required to work to the recognised standards.

Cleaning and Maintenance

The appliance should be inspected once a year by a qualified company, and cleaned and/or repaired as necessary. The inspection and maintenance must at least ensure that the appliance is working correctly and safely. This can be done by your own gasinstaller or a specialised maintenance company. It is advisable to remove any dust from the appliance several times before and during the heating season. Do not use corrosive or abrasive substances to clean the casing. Any damage to the coating, caused by things put on or against the casing for example, is not covered by the guarantee.
NB: When replacing the pilot light burner, the coupling nut in the gas control block should first be tightened by hand and then tightened a quarter-turn with an open-ended spanner.

Discoloration of walls and ceiling

Brown discoloration is an annoying problem, which is difficult to solve. It can be caused by dust burning as a result of poor ventilation, for example, or by cigarette smoke or candles.

These problems can be avoided by ensuring that the room the heater is in is properly ventilated. A good guideline for ventilation is:

New buildings	: 3.24 m^3 / hour per m^2 floor surface of the room.
Existing buildings	: 25.20 m^3 / hour for a room.

Use candles and oil lamps as little as possible, keeping the wick as short as possible. While they enhance the atmosphere, candles and oil lamps also cause the formation of large quantities of unhealthy soot particles in your home. Cigarette and cigar smoke contains tar, which upon heating will precipitate on cold or damp walls. If you have a newly cemented chimney or have had any other reconstructions / renovations done, you are advised to wait at least 6 weeks before lighting your fire, to allow the walls, floor and ceiling to dry out completely.

Lighting the heater for the first time

There can be an unpleasant smell when you light the heater for the first time. This is caused by the varnish evaporating and will disappear after a few hours. We therefore advise you, on initial use, to heat the appliance at the highest setting while ventilating the room it is installed in well.

Extra protection

This heater meets the normal safety standards regarding surface temperatures, but physical contact with heated surfaces should be avoided where possible. An additional guard is recommended to protect young children and elderly, infirmed or handicapped people.

Disposal

When replacing or otherwise removing the appliance, it should be disposed of in compliance with current regulations.

Shut off the connecting tap with coupling before commencing disassembly. Undo the coupling between the connecting tap and the appliance. The whole appliance can now be disassembled and removed.

Guarantee

The warranty for your DRU appliance will be provided by your supplier. In case of malfunctions, you should always contact him. You supplier will contact DRU if he feels this is necessary. The factory warranty for your appliance is valid for 2 years after date of purchase.

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The conversion should be carried out by a qualified fitter.

1. Close off the gas supply.
2. Remove the casing.

If the right-hand side of the appliance is not easily accessible:

3.Disconnect the gas supply
4. Pull the heater away from the wall.

Changing the components:

DRU-ART 2, 3, 4, 5, 6, 8-01, 10-01

1. Pilot jet (fig. 13, page 62 / fig. 14, page 63)
   Unscrew the coupling nut (7) at the end of the pilot-light hose; pull the hose with the ring clamp out of the pilot burner and remove the pilot jet. Fit the new pilot jet and tighten the coupling nut on the pilot-light hose firmly.

DRU-ART 2

2. Main jet (fig. 13, page 62)
   Unscrew the coupling nut (6) around the jet. Unscrew the coupling nut in the gas control block (5) a few turns as well. Now pull the gas pipe out of the jet and turn it away from the jet. Using an open-ended spanner, unscrew the elbow pipe and the jet from the burner; remove the jet from the elbow pipe and fit the new jet. Reconnect the components in reverse order.

DRU-ART 3, 4, 5, 6, 8-01, 10-01

2. Main jet (fig. 14, page 63)
   Unscrew the coupling nut (6) around the jet. Unscrew the coupling nut in the gas control block (5) a few turns as well. Now pull the gas pipe out of the jet and turn it away from the jet. Using an open-ended spanner, unscrew the jet from the burner and fit the new jet. Reconnect the components in reverse order.

DRU-ART 2

3. Fine-adjustment jet (fig. 13, page 62)
   Poke the top, with the name Junkers on it, out of the cover of the gas-control block. Remove the cover of the gas-control block by unscrewing the screw (1). Now remove the fine-adjustment jet (3) at the top of the gas-control block. Fit the new fine-adjustment jet and tighten firmly. Replace the cover.

DRU-ART 3, 4, 5, 6

3. Fine-adjustment jet (fig. 14, page 63)
   Remove the cover of the gas-control block by unscrewing the screw (1). Now remove the fine-adjustment jet (3) on the right of the gas-control block. Fit the new fine-adjustment jet and tighten firmly.
   Replace the cover.

DRU-ART 8-01, 10-01

3. Fine-adjustment jet (fig. 15, page 64)
   Remove the fine-adjustment jet (3) on the right of the gas block. Fit the new fine-adjustment jet and tighten firmly.

DRU-ART 2, 3, 4, 5, 6

4. Adjusting the burner pressure
   (fig. 13, page 62 / fig. 14, page 63)
   Reconnect the gas pipe to the heater and turn on the supply of new gas.
   There is a point of pressure measurement on the gas-control block, which enables you to check the burner pressure easily with a manometer. Undo the screw at the point of pressure measurement (4) and connect the manometer.

For conversion to propane gas or natural gas, the burner pressure is adjusted with the pressure regulating screw (2) as table, (pag. 56).

DRU-ART 8-01, 10-01

4. Adjusting the burner pressure
   (fig. 15, page 64)
   Reconnect the gas pipe to the heater and turn on the supply of new gas.
   There is a point of pressure measurement on the gas-control block, which enables you to check the burner pressure easily with a manometer. Undo the screw at the point of pressure measurement (4) and connect the manometer.

For conversion to propane gas or natural gas, the burner pressure is adjusted with the pressure regulating screw (2) as table, (pag. 56).

DRU-ART 2, 3, 4, 5, 6, 8-01, 10-01

5. Ignite the pilot light. Adjust the thermostat to the highest setting and adjust the burner pressure according to the table.
   Turn the burner off again, remove the manometer and tighten the screw at the point of pressure measurement.

DRU-ART 2, 3, 4, 5, 6, 8-01, 10-01

6. Apply the new type plate.
   Replace the casing over the heater.

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Technische gegevens, technical data, technischen Daten, données techniques, specifiche tecniche, técnico datos, técnico dados

DRU-ART

MODEL		2			3			4			5			6			8-01			10-01	
Type, type, Type, type, tipo		C11			C11			C11			C11			C11			C11			C11	
Gassoort, type of gas, Gassorte, sorte de gaz, tipo di gas		G20	G30	G31	G20	G30	G31	G20	G30	G31	G20	G30	G31	G20	G30	G31	G20	G30	G31	G20	G31
Branderdruk, burner pressure, Brennerdruck, pression de brûleur, pressione di bruciatore	mbar	12.5	29	29	9.5	29	29	9.5	28	28	10	15.5	20	10	11.7	15	10	28	24.5	14.5	30
Nom. Belasting (Hs), nom. Load (Hs), Nom. Belastung (Hs), puissance calorifique (Hs), carico nom. (Hs)	kW	3.30	2.70	2.20	4.80	4.30	4.30	5.45	4.80	4.80	7.00	7.00	7.00	8.30	8.30	8.30	12.2	12.2	12.2	14.2	13.5
Nom. Belasting (Hi), nom. Load (Hi), Nom. Belastung (Hi), puissance calorifique (Hi), carico nom. (Hi)	kW	3.00	2.43	2.43	4.32	3.90	3.90	4.91	4.40	4.40	6.30	6.30	6.30	7.48	7.48	7.48	11.0	11.0	11.0	12.8	12.2
Nom. Vermogen, nom. output, Nennleistung, puissance nominale, potenza nom.	kW	2.43	2.00	2.00	3.50	3.10	3.10	3.98	3.50	3.50	5.40	5.40	5.40	6.40	6.40	6.40	9.50	9.50	9.50	11.1	10.7
Verbruik volstand, consumption on full output, Verbrauch Vollstand, consommation plein régime, consumo pieno	m^3/h	0.314	0.100	0.094	0.457	0.128	0.137	0.519	0.155	0.155	0.667	0.200	0.264	0.791	0.238	0.312	1.15	0.345	0.440	1.36	0.5
Verbruik kleinstand, consumption on low output, Verbrauch Kleinstand, consommation débit réduit, consumo ridotto	m^3/h	0.071	0.025	0.035	0.100	0.028	0.028	0.132	0.038	0.038	0.156	-	0.046	0.180	-	-	0.25	0.140	0.140	0.36	0.153
Branderspuitstuk, burner injector, Brennerdüse, injecteur brûleur, iniettore bruciatore	Mm Ø	1.50	0.85	0.85	1.90	1.10	1.10	2.00	1.15	1.15	2.25	1.55	1.55	2.45	1.75	1.75	2.90	1.70	1.90	2.90	1.90
Waakvlamspuitstuk, pilot light injector, Zündflammendüse, injecteur veilleuse, iniettore fiamma pilota	kode	51	30	30	51	30	30	51	30	30	51	30	30	51	30	30	51	30	30	51	30
Kleinstelspuitstuk, low setting injector, Kleinstelldüse, injecteur débit réduit, iniettore consumo ridotto	Mm Ø	0.60	0.24	0.24	0.70	0.50	0.50	0.90	0.60	0.60	0.85	0.65	0.65	1.05	0.80	0.80	1.20	1.0	1.0	1.35	1.05

Categorie en voordruk, category and pre-press, Kategorie und Gasdruck, catégorie et pression, categori'a e pressione, categoría en presión, categoria e pressão

MODEL				2	3	4	5	6	8-01	10-01
	Pre-press. (mbar)									
	G20	G30	G31							
BE	20	29	37	II2E+3+	II2E+3+	II2E+3+	II2E+3+	II2E+3+	II2E+3P	II2E+3P
DE	20	50	50	II2E3B/P	II2E3B/P	II2E3B/P	II2E3B/P	II2E3B/P	II2E3P	II2E3P
GB	20	28	37	II2H3+	II2H3+	II2H3+	II2H3P	II2H3P	II2H3P	II2H3P
IT	20	30	37	II2H3+	II2H3+	II2H3+	II2H3+	II2H3+	II2H3+	II2H3+
ES	20	28	37	II2H3+	II2H3+	II2H3+	II2H3+	II2H3+	II2H3P	II2H3P
CH	20	50	-	II2H3B/P	II2H3B/P	II2H3B/P	II2H3B/P	II2H3B/P		
PT	20	28	37	II2H3+	II2H3+	II2H3+	II2H3+	II2H3+	II2H3P	II2H3P

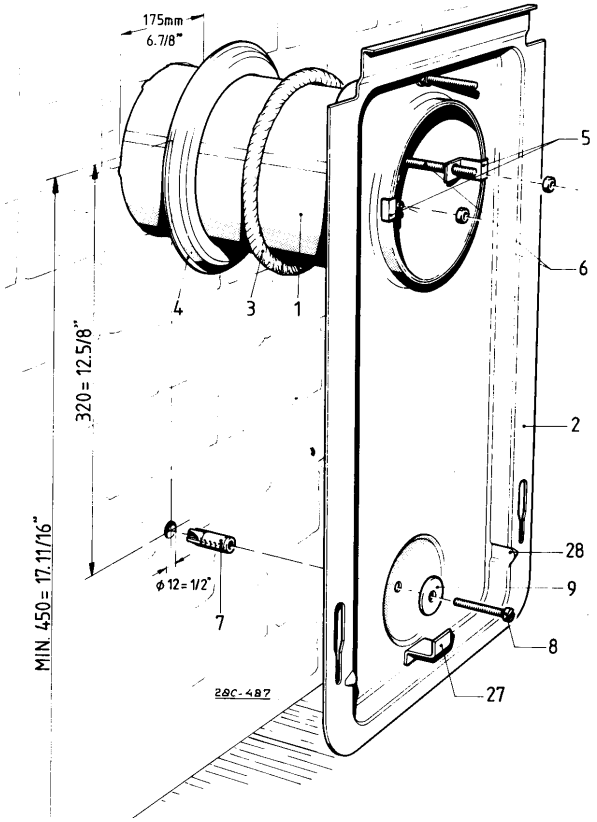


fig 1 DRU-ART 2

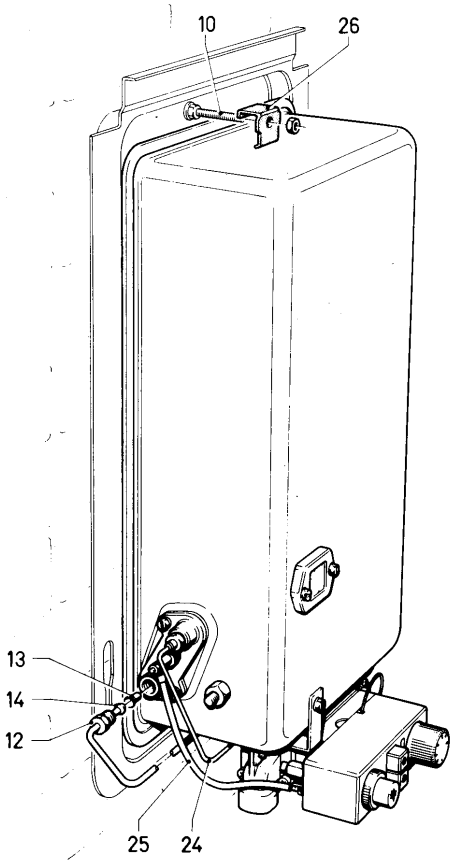


fig 2 DRU-ART 2

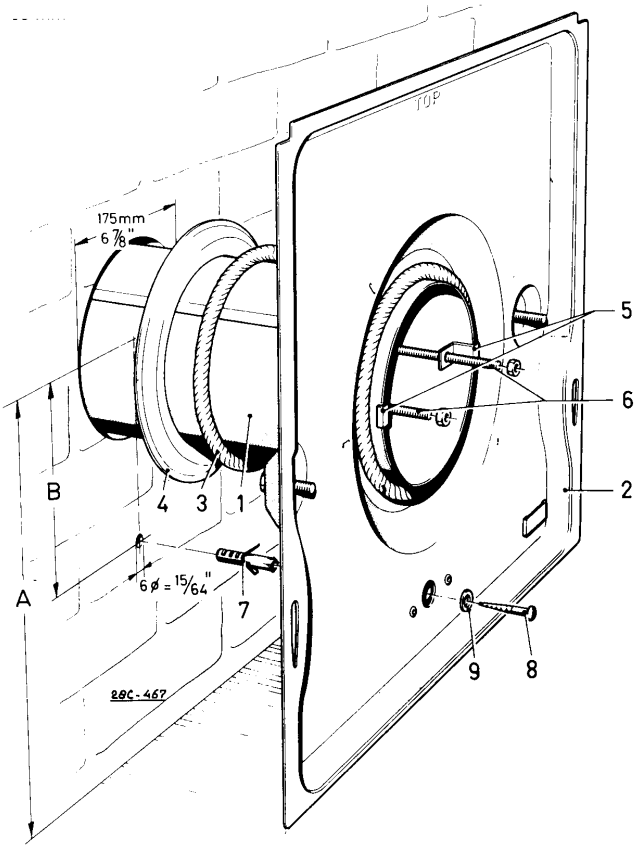


fig 3 DRU-ART 3,4

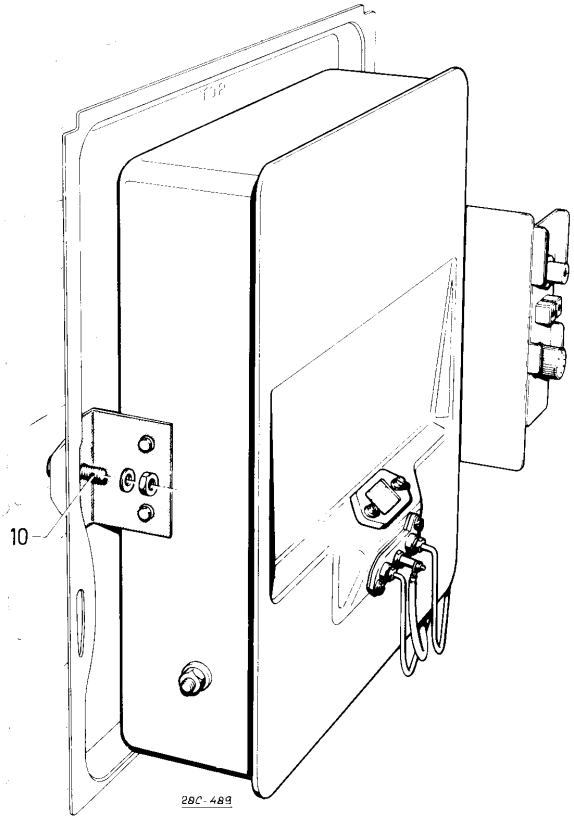


fig 4 DRU-ART 3,4

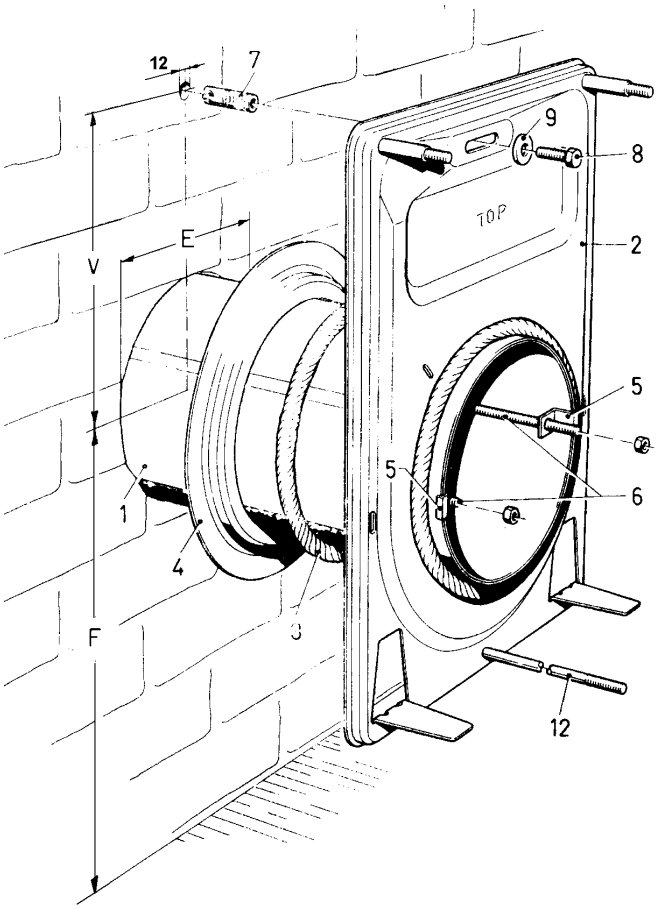


fig 5 DRU-ART 5,6,8,10

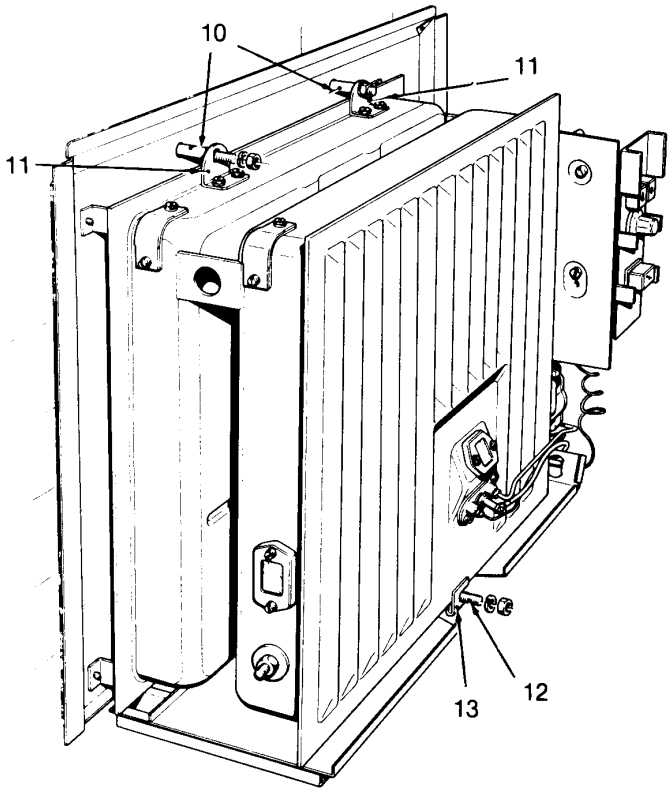


fig 6 DRU-ART 5,6,8,10

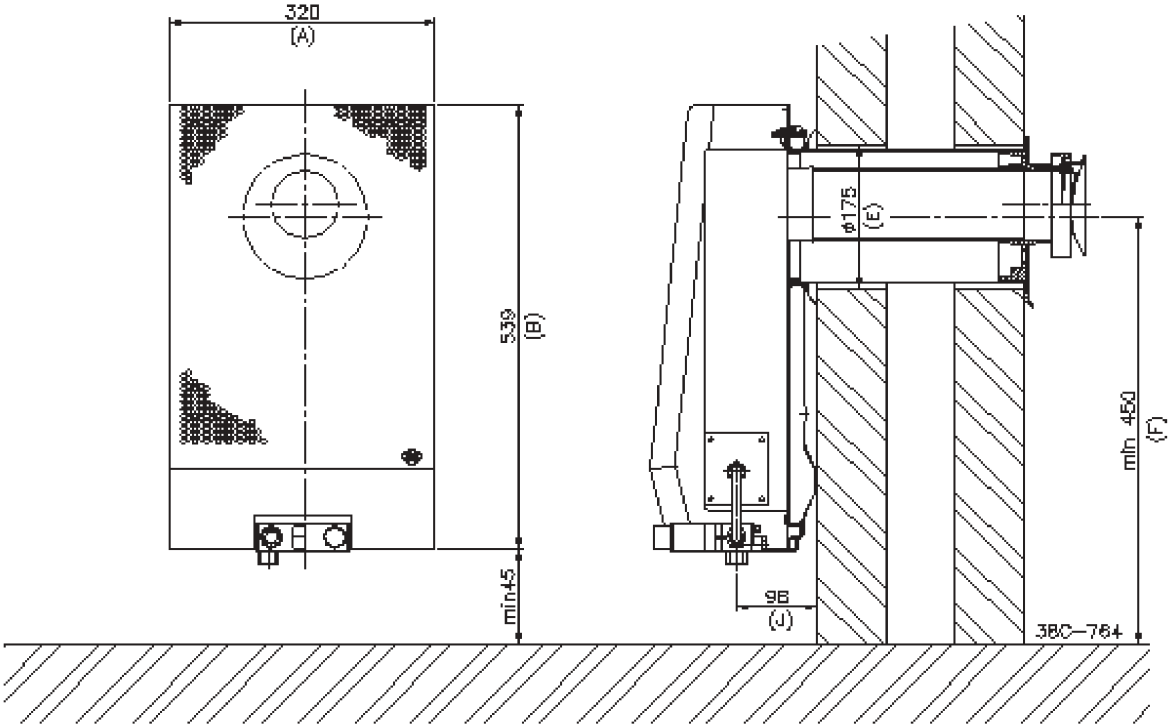


fig 7 DRU-ART 2

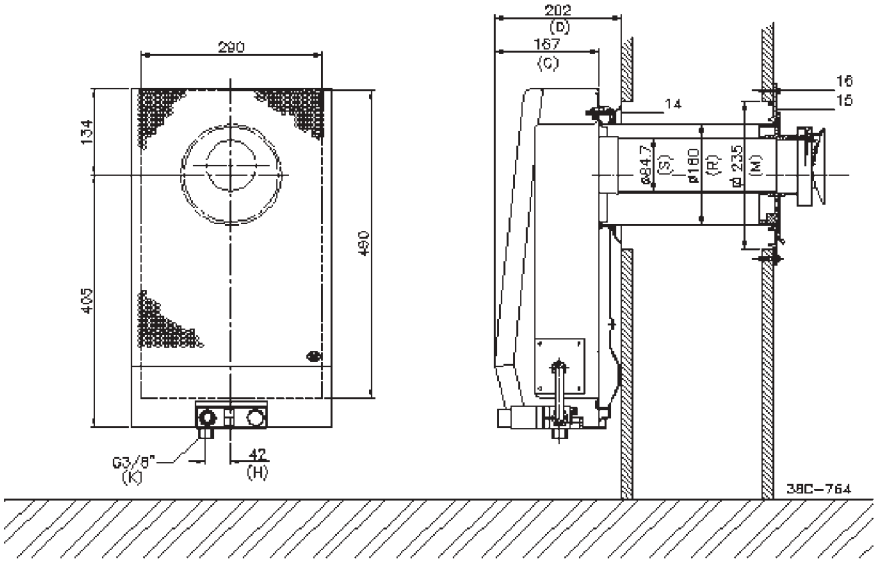


fig 8 DRU-ART 2

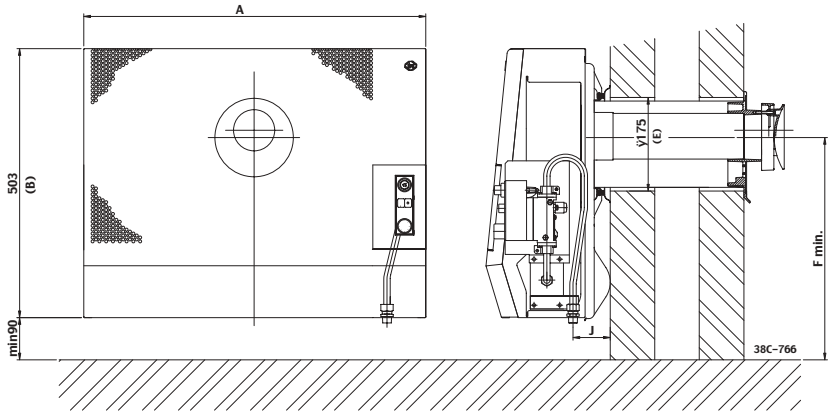


fig 9 DRU-ART 3,4

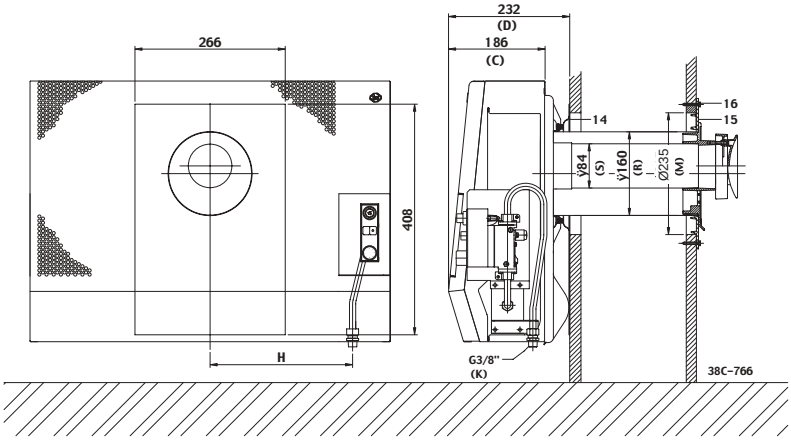


fig 10 DRU-ART 3,4

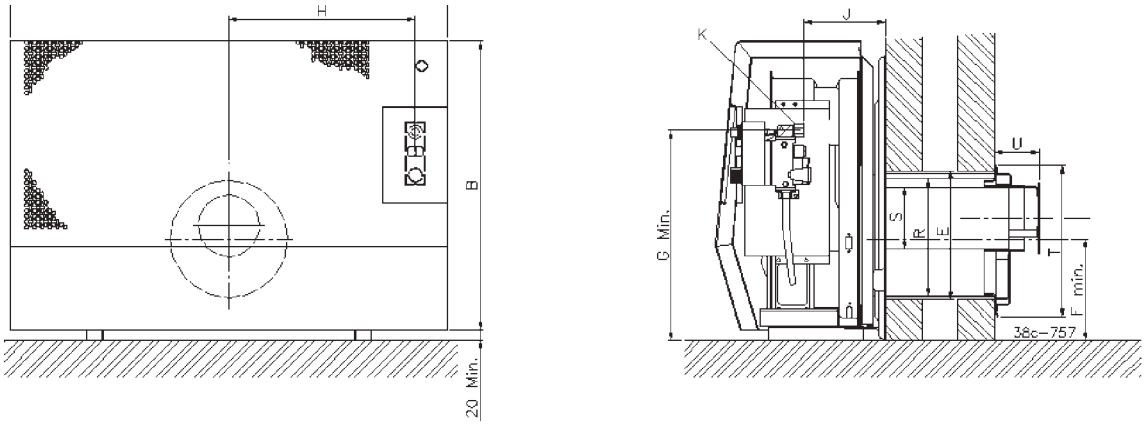


fig 11 DRU-ART 5,6,8,10

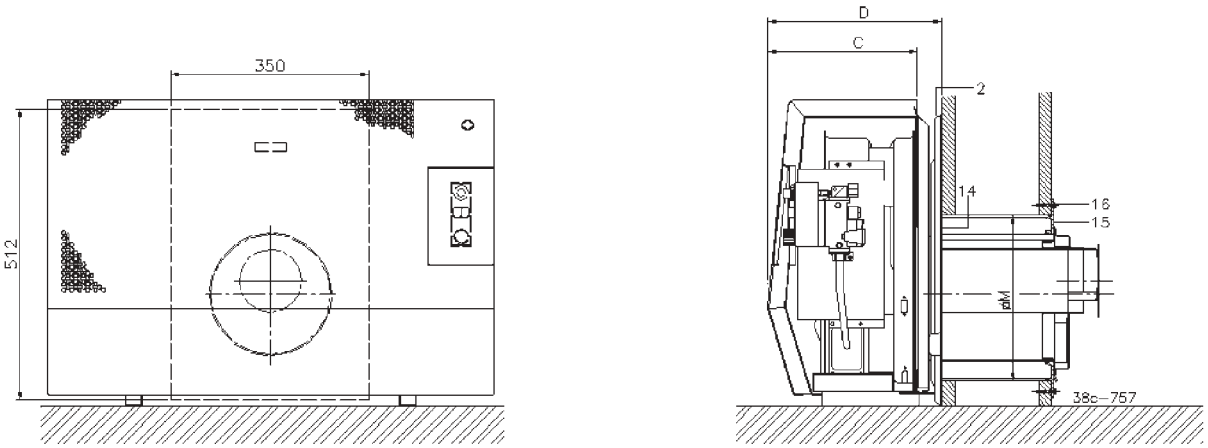


fig 12 DRU-ART 5,6,8,10

	DRU-ART 2	DRU-ART 3	DRU-ART 4	DRU-ART 5	DRU-ART 6	DRU-ART 8	DRU-ART 10
	Fig.7 & 8	Fig.9 & 10	Fig.9 & 10	Fig.11 & 12	Fig.11 & 12	Fig.11 & 12	Fig. 11 & 12
A	320	545	695	782	1034	1286	1538
B	539	503	503	517	517	547	547
C	167	186	186	220	220	270	270
D	202	232	232	260	260	310	310
E	ø 175	ø 175	ø 175	ø 230	ø 230	ø 260	ø 260
F	450	310	417	190	190	205	205
G	-	-	-	380	380	422	422
H	42	203	275	316	442	568	694
J	98	63	70	145	145	185	185
K	3/8”	3/8”	3/8”	1/2”	1/2”	3/8”	3/8”
M	❑ 235	❑ 235	❑ 235	❑ 280	❑ 280	❑ 310	❑ 310
R	ø 160	ø 160	ø 160	ø 210	ø 210	ø 240	ø 240
S	ø 84,7	ø 84	ø 84	ø 110	ø 110	ø 130	ø 130
T	-	-	-	❑ 270	❑ 270	❑ 300	❑ 300
U	-	-	-	80	80	92	92
V	-	-	-	272	272	257	257
W	320	167	258	-	-	-	-
Y	610	570	620	555	555	585	585

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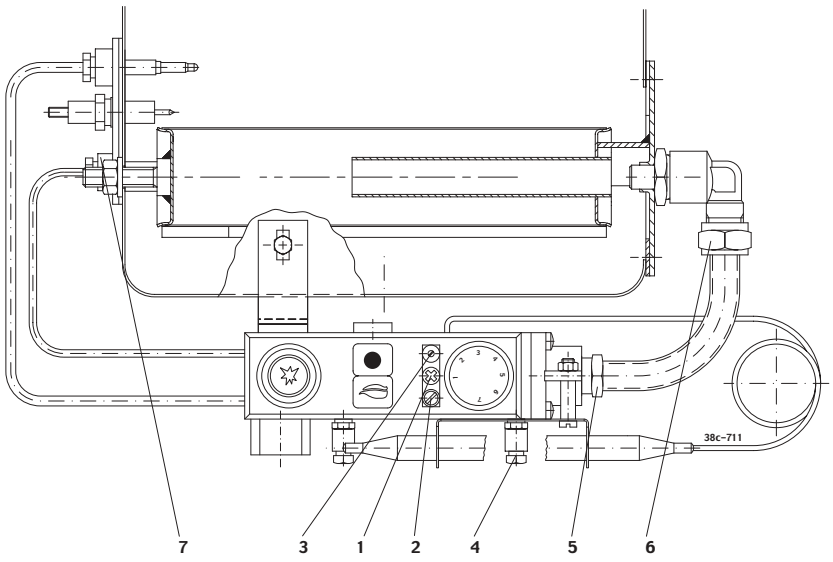


Fig. 13

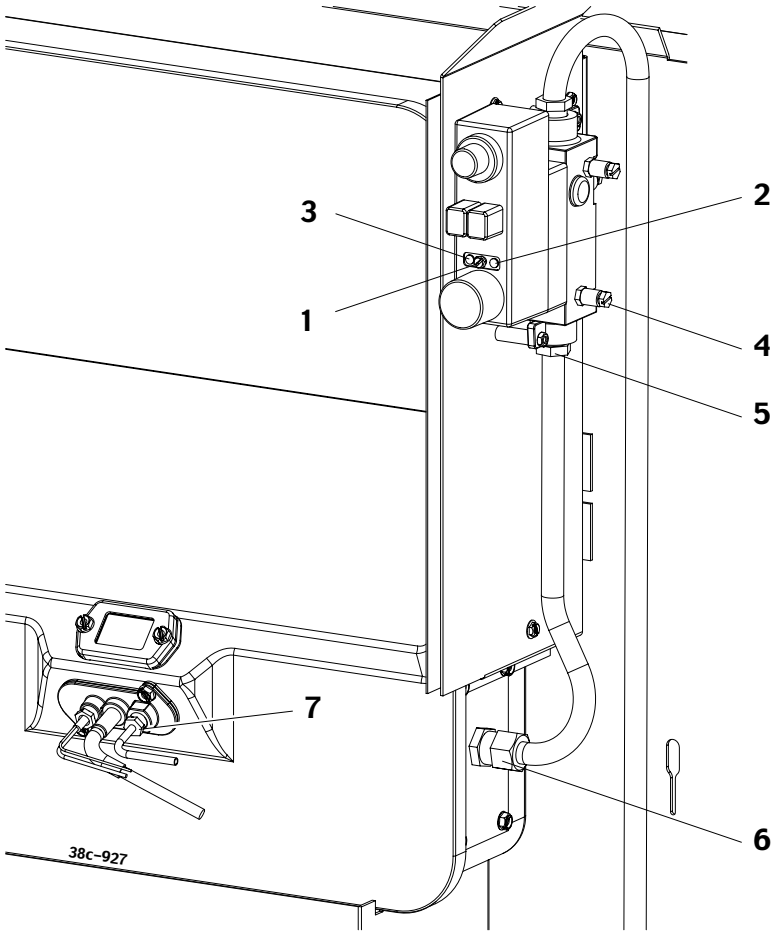


Fig. 14

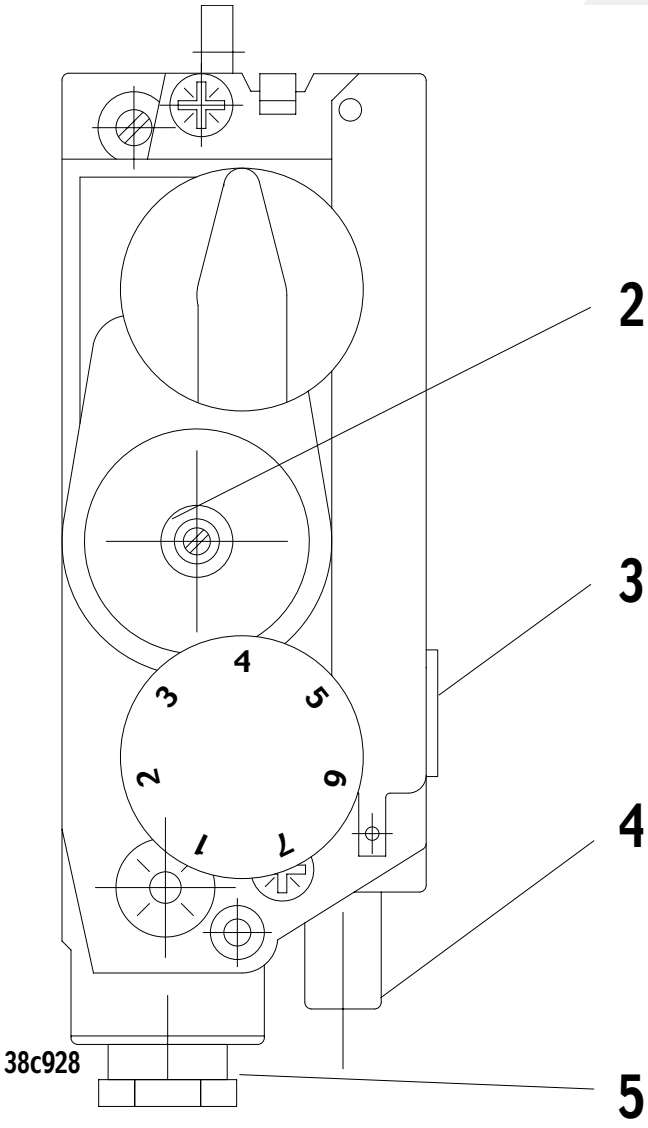


Fig. 15