



## Installation plan Commercial ironer (gas heating) PRI318 G PRI418 G PRI421 G

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**Always** read the operating instructions before setting up, installing and commissioning the machine. This prevents both personal injury and damage to the machine.

en-GB

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## Installation notes

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### Installation requirements

The flatwork ironer must only be set up by a Miele authorised and trained service technician or an authorised dealer.

- ▶ This flatwork ironer must be installed in accordance with all relevant regulations and standards. Local energy supplier regulations must also be observed.
- ▶ This flatwork ironer must only be operated in a room that has sufficient ventilation and which is frost-free.

### Operating conditions

In general, the operating conditions of DIN 60204 and EN 60204-1 apply.

- Ambient temperature: +5 °C to +40 °C
- Humidity: 10 % to 85 %
- At +21 °C ambient temperature, the maximum permissible relative humidity is 70 %.
- Maximum height above sea level of location site: 1000 m

⚠ The ironer must not be operated in the same room as dry-cleaning equipment using perchloroethylene or solvents containing CFCs. Collector motor sparking may convert solvent vapours into hydrochloric acid which can lead to consequential damage. Ensure adequate ventilation is present in the room in which the ironer is installed whilst it is being used.

### Floor anchoring

Measures to secure the ironer in place on the floor are essential.

The ironer must be secured to the floor after installation using the plugs and screws supplied.

The fittings supplied are for bolting the machine to a concrete floor. For other types of flooring, please purchase suitable fastening materials separately.

### Electrical connection

The electrical connection must be carried out by a qualified electrician who must ensure that all electrical work is carried out in accordance with applicable regulations and standards.

It is recommended to connect the ironer to the electrical supply via a suitably rated plug and socket.

The electrical connection and wiring diagram are located behind the mounting flap of the right-hand side column.

The required voltage, rated load and external fuse rating can be found on the data plate on the flatwork ironer.

Connection to a supply voltage other than the one quoted on the data plate can lead to functional faults and damage to the flatwork ironer.

Before connecting the flatwork ironer to the electricity supply, please ensure that the mains supply voltage complies with the values given on the data plate.

The electrical equipment of the flatwork ironer complies with standards IEC 61000-3-12, IEC/EN 60335-1, IEC/EN 60335-2-44, EN ISO 10472-1 and EN ISO 10472-5.

For ease of servicing and maintenance the ironer should be installed with a suitably rated plug and socket.

In the case of unfavourable electrical conditions, the flatwork ironer may lead to interfering voltage fluctuations. If the mains impedance is greater than 0.265 ohm at the connection point to the public mains network, additional measures may be required before the appliance can be properly operated using this connection. The mains impedance can be requested from the local power supply company if necessary.

The plug connector or isolator switch should be easily accessible at all times.

If the flatwork ironer is disconnected from the electricity supply, the disconnecter must be lockable or the point of disconnection must be monitored at all times.

If it is necessary to install a residual current device (RCD) in accordance with the local regulations, a type-A residual current device can be used.

If the machine is hard wired, an all-pole means of deactivation must be installed. Switches with a minimum contact gap greater than 3 mm are suitable disconnectors. These include circuit breakers, fuses and contactors (VDE 0660).

### Gas connection

The gas connection may only be carried out by a registered installation technician in accordance with the applicable national regulations. In addition, the regulations of the local gas supply company must be observed.

Service work on gas appliances may only be carried out by suitably qualified persons in accordance with all applicable safety regulations. Before any service work is commenced on the appliance, the machine must immediately be disconnected from the gas mains.

Follow the installation instructions for the gas connection.

The gas heating is set as standard in accordance with the ironer's gas rating (see the data plate on the rear of the machine).

If the gas type needs to be changed, please request the appropriate conversion kit from the Miele Customer Service Department. When doing so, please have ready the information on the type of ironer, the appliance number, gas type, gas group, gas connection pressure and country in which the appliance is installed.

# Installation notes

**⚠ Danger due to incorrectly carried out service and repair work.**  
There is a risk of serious damage, injury and even death if service and repair work is carried out incorrectly.  
Never carry out repairs on gas appliances yourself.  
If repair work is required, immediately contact the Miele Customer Service Department or an authorised dealer.

## Waste gas duct

The connector for the waste gas duct (Ø 120 mm) can be found on the back of the ironer next to the right-hand side column.

Follow the installation instructions.

Make sure that a sufficient air quantity is fed to the room in which the ironer is installed (e.g. non-lockable ventilation openings).

## Pipe length and pipe diameter

### Determining the total pipe lengths and pipe diameters

Prior to execution, a decision must be made as to whether flexible piping or metal piping with a round or square cross-section should be installed.

**Tip:** Keep the pipeline as short as possible. If feasible, the pipeline should not have any sharp bends as this impairs the air flow rate.

Ensure adequate ventilation of the room in which the ironer is installed whilst it is being used (e.g. by means of ventilation openings that cannot be closed).

**⚠ Fire hazard due to hot exhaust air.**  
The hot exhaust air can ignite ducting made from non-heat-resistant materials.  
Use only heat-resistant materials for the exhaust ducting.

Model	Maximum exhaust air temperature (approx.)*
PRI318 G	133 °C
PRI418 G	135 °C
PRI421 G	130 °C

\* Data from test diagrams

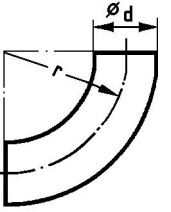
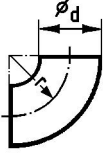
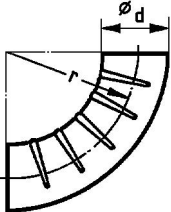
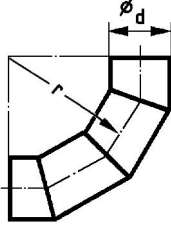
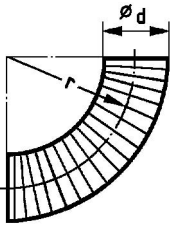
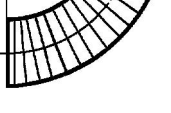
In upward exhaust ducting systems, a condensate drain must be fitted at the lowest point. The condensate must be drained via a water collection tray or a floor drain.

If the exhaust from multiple appliances is to be ducted into a combined line, a non-return device must be installed in each separate line to prevent backflow.

**Tip:** To make subsequent cleaning of the pipes easier, cleaning flaps should be fitted to elbows wherever possible.

**⚠ Fire hazard due to fluff deposits.**  
Fluff that settles in the ducting may be ignited by the hot exhaust air.  
Remove fluff deposits from the ducting and the exit point to the outside on a regular basis.

## Substitute pipe lengths

Type of elbow	Substitute pipe lengths	
	PRI318/418/421 G (gas-heated)	
	90° elbow $r = 2 d$	1.5 m
	45° elbow $r = 2 d$	0.85 m
	90° elbow $r = d$	2.55 m
	45° elbow $r = d$	1.4 m
	90° corrugated pipe elbow $r = 2 d$	2.0 m
	45° corrugated pipe elbow $r = 2 d$	
	90° segmented bend (3 welded seams) $r = 2 d$	1.25 m
	90° elbow Westaflex ducting $r = 2 d$	0.9 m
	$r = 4 d$	1.2 m
	45° elbow Westaflex ducting $r = 2 d$	0.6 m
	$r = 4 d$	0.75 m

# Installation notes

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## Permissible total pipe lengths

Minimum internal pipe diameter for metal pipes	Maximum permissible total pipe length for exhaust air
	PRI318/418/421 G (gas-heated)
70 mm	
80 mm	
90 mm	
100 mm	
110 mm	
120 mm	10 m
130 mm	14.5 m
150 mm	30 m
180 mm	75.5 m
200 mm	

## Ducting requirements

Important information about ducting:

- When connecting the ducting to the exhaust connection on an appliance, particular care must be taken to make sure the connection is secure and air-tight.
- The ducting must not be channelled into a chimney or flue already in use for any gas-, coal- or oil-burning installation.
- The warm and moist exhaust air is to be conducted to the outside or through suitable ventilation ducting along the shortest path possible.
- Due to the higher air flow rates, the exhaust ducting must be laid in such a way that air flow is not hindered (few bends, short pipelines, well-made connections and transitions checked for air-tightness). Filters and louvres must not be fitted in the ducting.
- The end of ducting leading outside should be protected against the elements, e.g. with a downward-facing 90° elbow.

## Take these safety precautions if you smell gas

- Extinguish any open flames and put out any cigarettes immediately.
- Do not carry out any actions which produce electrical sparks. Do not operate any light switches, device power switches or bells. Do not pull any electrical plugs from sockets. Do not use your telephone or mobile phone.
- Immediately open all windows and doors and ensure adequate ventilation.
- Close the gas line shut-off valves.
- If you smell gas in a room, under no circumstances should you enter that room carrying an open flame.
- Do not strike any matches or ignite a cigarette lighter.
- Contact the relevant gas supply company.



Before completing commissioning, maintenance, conversion and repair work, all gas-conducting components – from the manual shut-off valve to the burner jet – must be checked for leaks.

Particular attention must be paid to the measuring stubs on the gas valve and the burner. Checks must be performed when the burner is both switched on and switched off.

During installation, the technical regulations for gas installations as well as national and regional building regulations, fire regulations, and specifications from the relevant gas supply companies must be adhered to.

UK: Gas Safe, and BS 8446:2005

When planning a gas-heated system, contact the relevant gas supply company and a building regulations inspector in good time.

### 1. What needs to be observed before commissioning

When ordering gas-heated machines, please specify the gas family, gas group, and connection pressure at the site where the machine is to be set up.

#### Setup site


Gas-heated machines must **not** be operated in a room where cleaning machines operate with solvents containing perchloroethylene or CFCs. During combustion, any vapours that are emitted will break down into hydrochloric acid, leading to consequential damage affecting laundry and the machine. Air exchange must not take place if machines are set up in separate rooms.

Rooms with fuel-burning installations must be adequately aerated and ventilated. Any gas-heated appliance must be considered to be a fuel-burning installation (regardless of its gas flow rate).

If liquid gas-heated machines are being set up below ground level, the operator must provide the system with the necessary aeration and forced ventilation equipment in accordance with technical regulations for liquid gas.

If no low pressure occurs when a full fire is burning in all fuel-burning installations, this means that the room ventilation is working properly, even if the exhaust gases from the installations are being extracted mechanically. This ensures that the gas is being combusted correctly and that the exhaust gases are being evacuated completely.

It must not be possible to seal off aeration and ventilation openings.

 Before completing commissioning, maintenance, conversion, and repair work, all gas-conducting components – from the manual shut-off valve to the burner jet – must be checked for leaks.

Gas may escape from leaks.

Particular attention must be paid to the measurement connections on the gas valve.

Checks must be performed when the burner is both switched on and switched off.

- ▶ Installing thermal shut-off equipment on site is recommended.
- ▶ If gas-heated appliances are publicly accessible, it is also necessary to check whether a gas flow monitor needs to be used.

# Installation notes

## Required flow rate

Appliance type	Rated heat load (Hi)	Natural gas (LL)	Natural gas (E)	Liquid gas
PRI318	22 kW	2.71 m <sup>3</sup> /h	2.33 m <sup>3</sup> /h	1.74 kg/h
PRI418	28 kW	3.44 m <sup>3</sup> /h	2.97 m <sup>3</sup> /h	2.21 kg/h
PRI421	30 kW	3.69 m <sup>3</sup> /h	3.18 m <sup>3</sup> /h	2.37 kg/h

The connected load is based on the following calorific values:

- Natural gas LL (G 25): 29.25 MJ/m<sup>3</sup> (Hi)
- Natural gas E (G 20): 34.02 MJ/m<sup>3</sup> (Hi)
- Liquid gas (G 30): 45.65 MJ/m<sup>3</sup> (Hi)

## Natural gas

Natural gas	Length of gas line						
	3 m	5 m	10 m	20 m	30 m	50 m	100 m
Internal diameter	Maximum flow rate						
¾" (20 mm)	4.7 m <sup>3</sup> /h	3.7 m <sup>3</sup> /h	2.6 m <sup>3</sup> /h	1.6 m <sup>3</sup> /h	1.1 m <sup>3</sup> /h	0.7 m <sup>3</sup> /h	0.3 m <sup>3</sup> /h
1" (25 mm)	8.6 m <sup>3</sup> /h	6.9 m <sup>3</sup> /h	4.8 m <sup>3</sup> /h	3.1 m <sup>3</sup> /h	2.4 m <sup>3</sup> /h	1.9 m <sup>3</sup> /h	0.9 m <sup>3</sup> /h
1 ¼" (32 mm)	16.0 m <sup>3</sup> /h	12.4 m <sup>3</sup> /h	8.7 m <sup>3</sup> /h	6.2 m <sup>3</sup> /h	5.0 m <sup>3</sup> /h	3.8 m <sup>3</sup> /h	2.4 m <sup>3</sup> /h
1 ½" (40 mm)	26.5 m <sup>3</sup> /h	20.5 m <sup>3</sup> /h	14.5 m <sup>3</sup> /h	10.3 m <sup>3</sup> /h	8.4 m <sup>3</sup> /h	6.5 m <sup>3</sup> /h	4.0 m <sup>3</sup> /h
2" (50 mm)	60.0 m <sup>3</sup> /h	47.0 m <sup>3</sup> /h	33.0 m <sup>3</sup> /h	23.0 m <sup>3</sup> /h	19.0 m <sup>3</sup> /h	15.0 m <sup>3</sup> /h	10.0 m <sup>3</sup> /h

## Liquid gas

Liquid gas	Length of gas line						
		5 m	10 m	20 m		50 m	
Internal diameter	Maximum flow rate						
10 mm		1.3 kg/h	1.0 kg/h	-		-	
12 mm		2.0 kg/h	1.5 kg/h	1.0 kg/h		-	
16 mm		4.0 kg/h	3.0 kg/h	2.0 kg/h		1.5 kg/h	
22 mm		9.0 kg/h	6.5 kg/h	4.5 kg/h		3.0 kg/h	
27 mm		-	12.0 kg/h	8.0 kg/h		5.0 kg/h	

### Exhaust gas evacuation ducts

The gas-heated flatwork ironers are type B<sub>22</sub> gas fuel-burning installations without flow safeguarding equipment, and with a fan behind the heater.

- The mixtures of exhaust gas and air that are emitted by gas-heated flatwork ironers must be evacuated through a suitable chimney and out into the atmosphere via the roof.
- Exhaust air/gas evacuation ducts must be kept as short as possible and must rise vertically up to the vent flue.
- Only materials that are resistant to heat and sooting may be used.
- A condensate drain must be placed at the lowest point of the exhaust air/exhaust gas line. The condensate must be drained via a water collection tray or a floor drain positioned in an appropriate location. Supports and louvres must not be fitted. The exhaust air/exhaust gas line must be installed in a way that ensures it is leak-tight.

See the guidelines for approving exhaust gas systems containing low-temperature exhaust gases (issued by the German Institute for Structural Engineering in Berlin).

### Exceptions

1. If it is not possible for evacuation to take place through a single duct and multiple exhaust gas/air ducts are in use, appropriate measures must be put in place to ensure that, when an appliance is being operated, the exhaust gas/air mixture is not able to enter the room via the exhaust ducts of other appliances. Examples of appropriate measures include baffles and merged lines with a shape that is favourable for the flow. It is important to ensure that high pressure cannot arise in the exhaust gas/air ducts of the appliances that are not in operation. Appliances with a fan may not be connected to the same vent flue as appliances without a fan.
2. In exceptional cases, the exhaust gas/air mixture may be evacuated through the exterior wall (in accordance with Section 38, paragraph 4, sentence 3 of Germany's Model Building Code (MBO)). However, doing so must not give rise to any risks or unreasonable inconvenience.
3. When using a combined line, the exhaust air evacuation ducts of the individual appliances must be directed into the shared line laterally and in a way that is favourable for the flow. The cross-section of the vent flue must not be smaller than the cross-section of the combined line. The combined line must be kept as short as possible and must rise vertically up to the vent flue. A condensate drain must be placed at the lowest point. The condensate must be drained as described above.

All exceptional cases, and particularly those where a combined line is being installed, require special permission from the relevant building regulations inspector supervisor's office.

# Installation notes

## Exhaust air and supply air ducting cross-sections

Model	Cross-sections of vent outlets
PRI 318/418/421 gas	113 cm <sup>2</sup>

## Exhaust gas values

	PRI318	PRI418	PRI421
Exhaust gas emissions*	160 g/s	101 g/s	122 g/s
Temperature*	120 °C	130 °C	130 °C
CO <sub>2</sub> content*	0.6 %	1.0 %	1.0 %
Fan power**	530 m <sup>3</sup> /h	530 m <sup>3</sup> /h	530 m <sup>3</sup> /h
Maximum permitted counter pressure	200 Pa	200 Pa	200 Pa

\* Example value

\*\* At 0 mbar counter pressure

## Room ventilation opening for air intake from the setup room

The minimum dimension of the ventilation opening depends on the cross-section of the vent pipe.

Vent pipe			Minimum dimension for ventilation opening		
⊘	□	A	A	⊘	□
100 mm	-	79 cm <sup>2</sup>	237 cm <sup>2</sup>	175 mm	155 mm
-	100 mm	100 cm <sup>2</sup>	300 cm <sup>2</sup>	200 mm	175 mm
120 mm	-	113 cm <sup>2</sup>	339 cm <sup>2</sup>	210 mm	185 mm
-	120 mm	144 cm <sup>2</sup>	432 cm <sup>2</sup>	235 mm	210 mm
150 mm	-	177 cm <sup>2</sup>	531 cm <sup>2</sup>	260 mm	230 mm
-	150 mm	225 cm <sup>2</sup>	675 cm <sup>2</sup>	295 mm	260 mm
180 mm	-	254 cm <sup>2</sup>	762 cm <sup>2</sup>	315 mm	280 mm
-	180 mm	324 cm <sup>2</sup>	972 cm <sup>2</sup>	355 mm	315 mm
200 mm	-	314 cm <sup>2</sup>	942 cm <sup>2</sup>	350 mm	310 mm
-	200 mm	400 cm <sup>2</sup>	1200 cm <sup>2</sup>	395 mm	350 mm
220 mm	-	380 cm <sup>2</sup>	1140 cm <sup>2</sup>	381 mm	377 mm
-	220 mm	484 cm <sup>2</sup>	1452 cm <sup>2</sup>	430 mm	382 mm
250 mm	-	491 cm <sup>2</sup>	1473 cm <sup>2</sup>	435 mm	385 mm
-	250 mm	625 cm <sup>2</sup>	1875 cm <sup>2</sup>	490 mm	435 mm
300 mm	-	707 cm <sup>2</sup>	2121 cm <sup>2</sup>	520 mm	460 mm
-	300 mm	900 cm <sup>2</sup>	2700 cm <sup>2</sup>	590 mm	520 mm

### 2. What needs to be observed during commissioning

Check that the points listed in section 1 (“What needs to be observed before commissioning”) have been taken into consideration. The following should be carried out in the given order when commissioning or converting the machine:

1. Measure the connection pressure. The connection pressure must be within the ranges specified in EN 437 (see section “Country of destination and category”).
2. Ask the gas supply company what the gas family, gas group and connection pressure are, and compare this information with the data specified on the machine (see the sticker at the rear).
3. Check the factory-set jet pressure based on the sections “Country of destination and category”, “Settings with natural gas” and “Settings with liquid gas” and correct it if necessary.
4. If the gas family, gas group or connection pressure is different, it must be converted as instructed in the section entitled “Connection and conversion instructions” and the sticker at the rear of the machine must be replaced.

Set the jet pressure at the machine’s gas regulating valve (see “Settings with natural gas” or “Settings with liquid gas” section).

If the gas family needs to be changed, please request the appropriate conversion kit from the Miele Customer Service Department. When doing so, please specify the product name and the machine number, as well as the gas family, gas group, gas connection pressure and country where the machine has been set up.

5. Switch on all gas consumers that are present, including the installed appliance.

# Installation notes

## Connection and conversion instructions

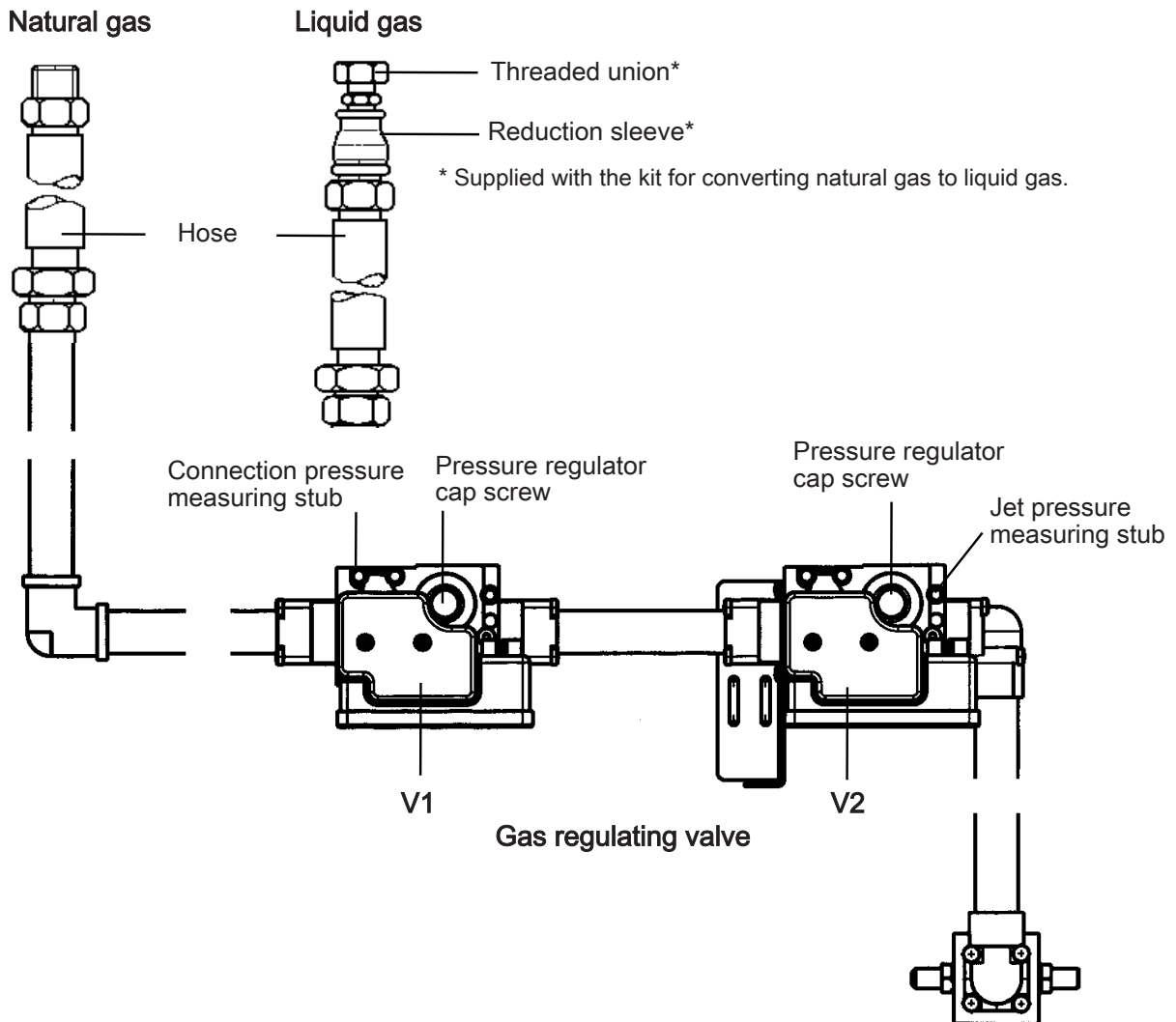
Connection and conversion work must be performed by the Miele Customer Service Department or by an authorised dealer's trained personnel.

The settings for gas-heated flatwork ironers are made at the factory in line with the gas specifications at the rear of the appliance.

### Gas hose

The gas appliance must be connected using a corrugated metal hose assembly made from stainless steel in accordance with DIN 3384. Alternatively, a hose that complies with DIN EN 16617 may be used with connections in accordance with DIN 3384. When selecting the hose, the required flow rate must be taken into account. The relevant national regulations must also be observed.

### Main connection



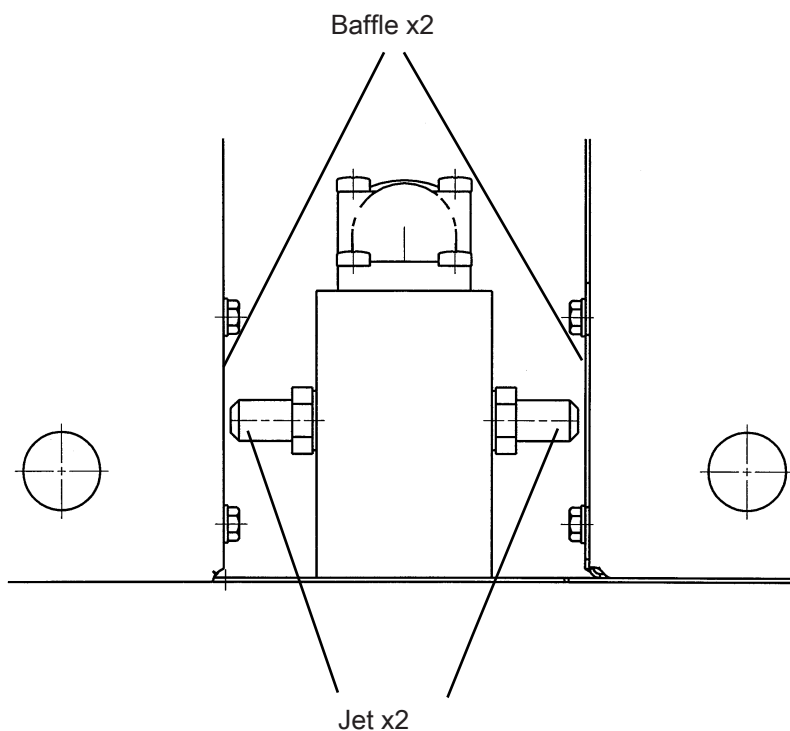
### Checking and adjusting the gas regulating valve

- Remove the cap screws from the pressure regulators.
- Loosen the locking bolts on the measuring stubs.
- Carry out the measurement.
- Tighten the locking bolts again after the measurement.
- Check the connection pressure at the gas regulating valve **V1** (see “Connection pressure and category” section).
- Open the pressure regulator on gas regulating valve **V1** as far as it will go.
- Set the jet pressure at gas regulating valve **V2** based on the adjustment values for natural gas or liquid gas specified below.

### Burner setting

The respective diameters for jets and baffles are specified in the tables below together with the adjustment values.

Jets and baffles are included in the kit for converting natural gas to liquid gas.



- Change the 2 jets.
- Change the 2 baffles.

⚠ Danger due to gas escaping.

Gas lines and screw connections may leak after connection, adjustment and conversion work.

After connection, adjustment and conversion work, the gas lines, all screw connections (including those on the jets) and the locking bolts on the measuring stubs must be checked to ensure they are leak-tight. This check must be performed both while the appliance is at a standstill and while it is in operation.

# Installation notes

## Connection pressure and category

The gas-heated flatwork ironers are approved for the following countries, connection pressures and categories:

Country	Category	Connection pressure (natural gas) DIN EN 437			Connection pressure (liquid gas) DIN EN 437		
		$p_n$	$p_{min}$	$p_{max}$	$p_n$	$p_{min}$	$p_{max}$
Great Britain (GB)	H <sub>2</sub> H3+	20 mbar	17 mbar	25 mbar	29 mbar	20 mbar	35 mbar (B)
					37 mbar	25 mbar	45 mbar (P)
Ireland (IE)	H <sub>2</sub> H3+	20 mbar	17 mbar	25 mbar	29 mbar	20 mbar	35 mbar (B)
					37 mbar	25 mbar	45 mbar (P)

With natural gas, if the connection pressure is less than 15 mbar, the gas supply company must be informed.

## Settings with natural gas

Model	Rated heat load (Hi)	Jet diameter	Baffle Ø	Jet pressure	
				E, H	LL, L
PRI318	22 kW	2 x 3.0 mm	30 mm	8.6 mbar	12.8 mbar
PRI418	28 kW	2 x 3.5 mm	35 mm	7.5 mbar	11.2 mbar
PRI421	30 kW	2 x 3.5 mm	35 mm	8.6 mbar	12.8 mbar

## Settings with liquid gas 3B/P (30/50 mbar)

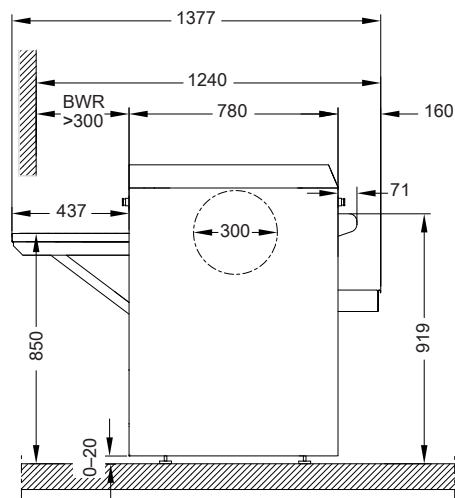
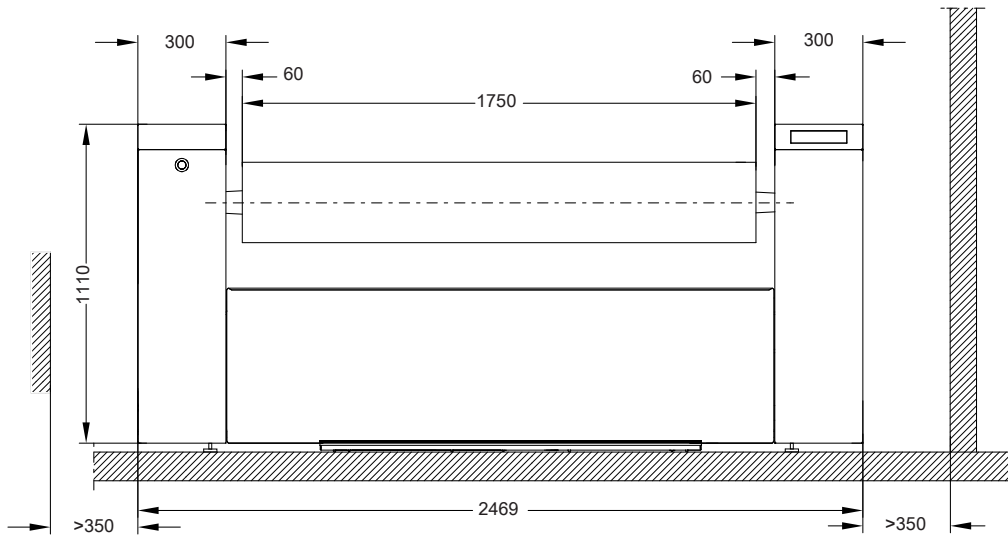
Model	Rated heat load (Hi)	Jet diameter	Baffle Ø	Jet pressure
PRI318	22 kW	2 x 1.7 mm	25 mm	29 mbar
PRI418	28 kW	2 x 1.95 mm	30 mm	28.5 mbar
PRI421	30 kW	2 x 2.05 mm	30 mm	27 mbar

## Settings with liquid gas 3+ (without regulator)

Model	Rated heat load (Hi)	Jet diameter	Baffle Ø	Jet pressure
PRI318	22 kW	2 x 1.7 mm	25 mm	Block regulator
PRI418	28 kW	2 x 1.95 mm	30 mm	
PRI421	30 kW	2 x 2.05 mm	30 mm	



Dimensions



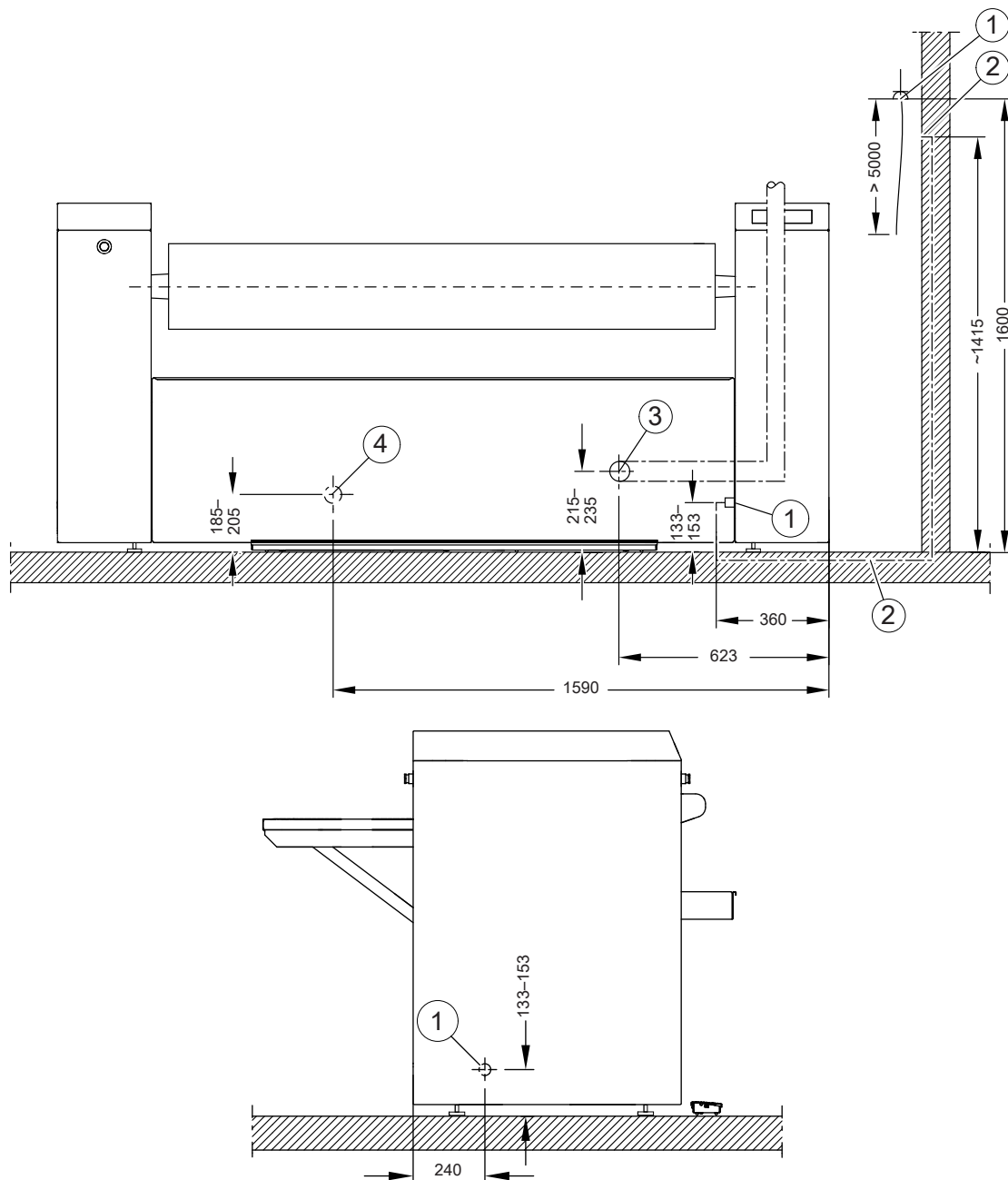
Dimensions quoted in millimetres

BWR Laundry return feed kit

Optional feature which allows the laundry to be removed from the front once it has been ironed.

# PRI318 G (gas heating)

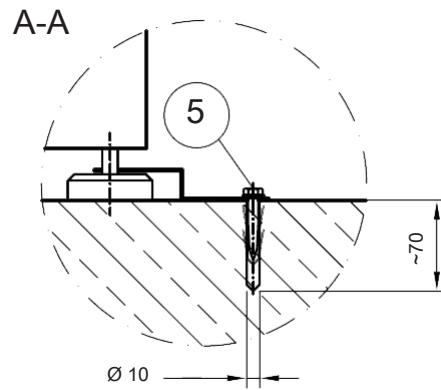
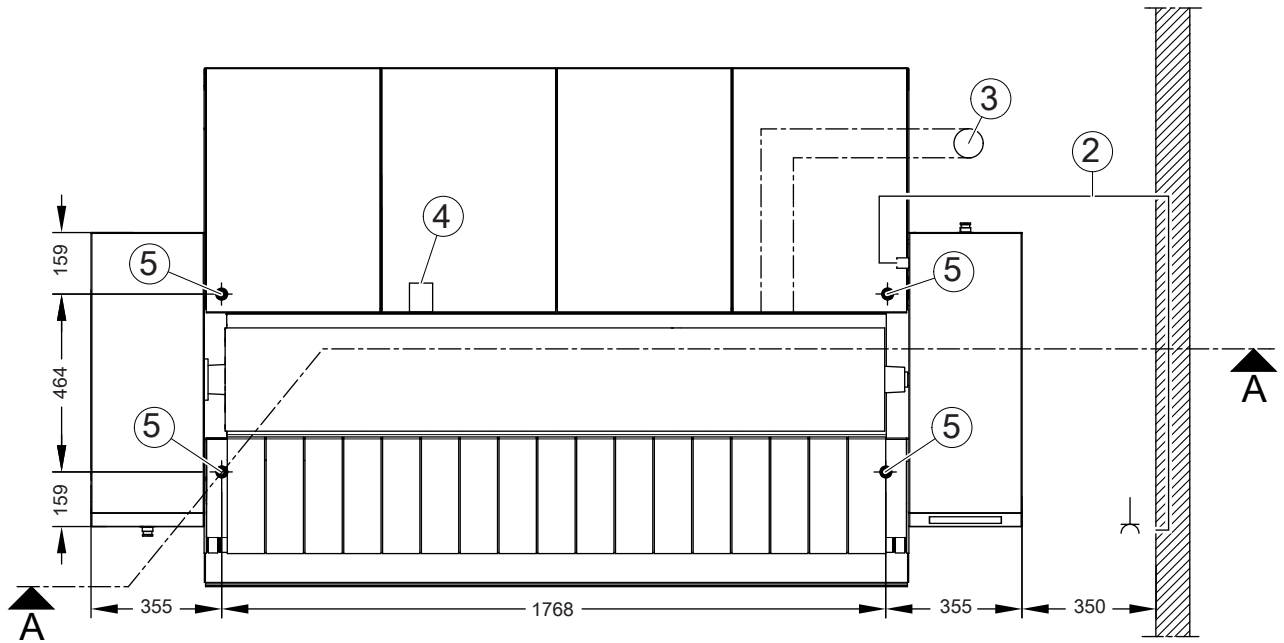
## Installation



Dimensions quoted in millimetres

- ① Electrical connection
- ② Electrical conduit  
For laying the electrical connection cable within the building structure.
- ③ Vent connection
- ④ Gas connection

Installation



Dimensions quoted in millimetres

- ② Electrical conduit  
For laying the electrical connection cable within the building structure.
- ③ Vent connection
- ④ Gas connection
- ⑤ Drill hole/anchor point

# PRI318 G (gas heating)

## Technical data

### Voltage variants/electrical data

3 NAC 380–415 V, 50–60 Hz

Supply voltage	3NAC 380-415 V
Frequency	50–60 Hz
Power rating	1.0 kW
Required fuse rating (on site)	3 × 16 A
Connection cable, min. cross-section	5 x 1.5 mm <sup>2</sup>
Screw thread	M25

### Gas connection

Rated heat load	22 kW
Connector on the appliance as per ISO 7-1	½" male thread
Natural gas connection pressure (as per DIN EN 437)	See installation instructions
Threaded union required for natural gas (on site)	½" female thread
Liquid gas connection pressure (as per DIN EN 437)	See installation instructions
Threaded union required for liquid gas (on site)	½" female thread
<i>Alternative: precision steel tube as per DIN 2391/DIN 2393 with smooth end (on site)</i>	<i>Min. length 40 mm, DN 12</i>
<i>Sleeve ½" x ¾", screw thread: ¾" x DN 12</i>	

Requirements for the gas hose

Corrugated metal hose assembly made from stainless steel in accordance with DIN 3384 or hose in accordance with DIN EN 16617 with connections as per DIN 3384

### Vent connection

Diameter of vent connection	120 mm
Maximum exhaust air temperature (approx.)	133 °C
Fan power	0.45 kW
Fan air output (0 bar)	270 m <sup>3</sup> /h
Maximum permitted pressure loss	200 Pa

## Dimensions/weight

Overall machine width	2469 mm
Overall machine height	1110 mm
Overall machine depth	1377 mm
Height adjustment via screw feet	29 mm
Roller length	1750 mm
Roller diameter	300 mm
Largest removable part	Heater plate
Width of largest removable part	440 mm
Height of largest removable part	242 mm
Depth of largest removable part	1096 mm
Packaging width	2576 mm
Packaging height	1388 mm
Packaging depth	1096 mm
Maximum gross volume	3918 l
Maximum gross weight	501 kg
Maximum net weight	424 kg
Maximum floor load in operation	4160 N

## Emissions data

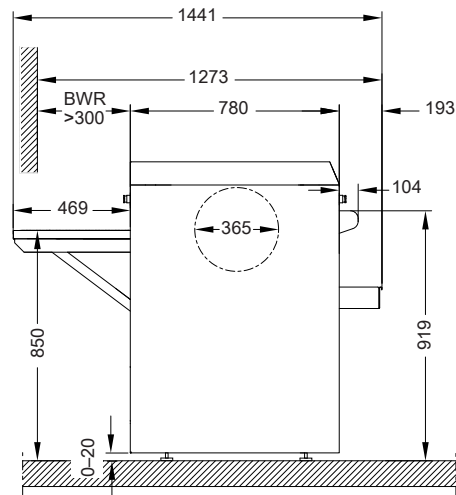
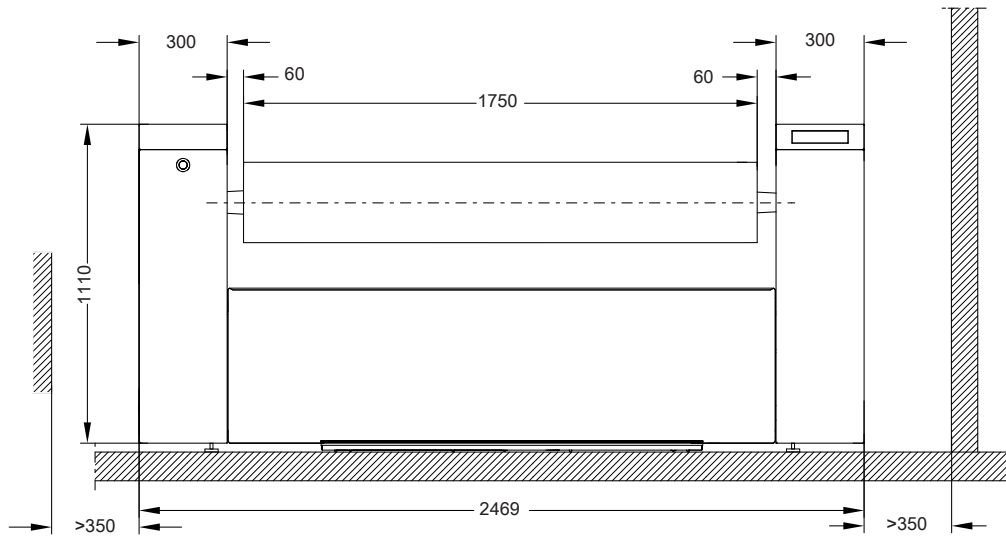
Emission sound pressure level	60 dB(A) re 20 µPa
Heat dissipation rate to installation site	11.5 MJ/h

## Floor anchoring

Required anchor points	4
DIN 571 wood screw (diameter x length)	8 mm x 50 mm
Rawl plugs (diameter x length)	10 mm x 50 mm

# PRI418 G (gas heating)

## Dimensions



Dimensions quoted in millimetres

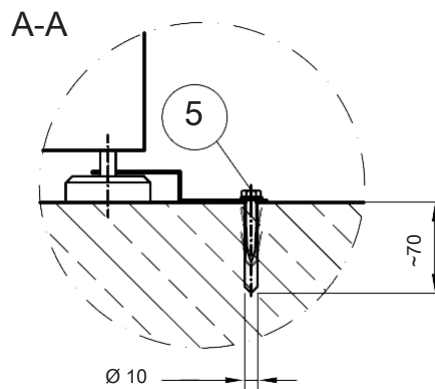
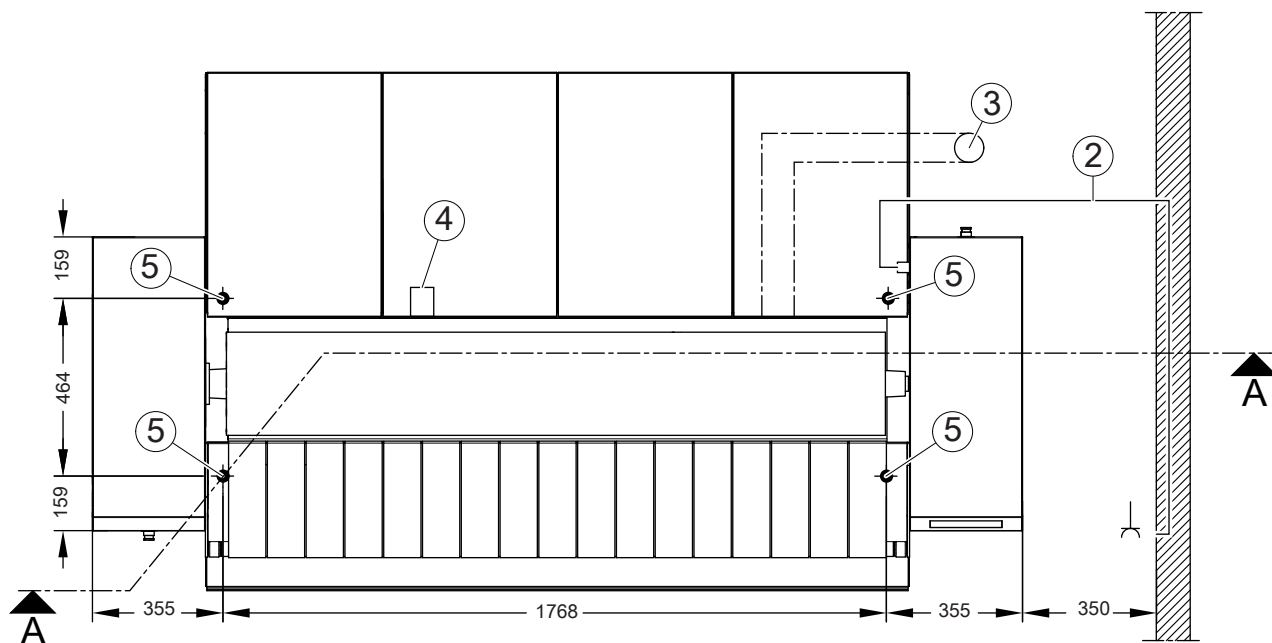
BWR Laundry return feed kit

Optional feature which allows the laundry to be removed from the front once it has been ironed.



# PRI418 G (gas heating)

## Installation



Dimensions quoted in millimetres

- ② Electrical conduit  
For laying the electrical connection cable within the building structure.
- ③ Vent connection
- ④ Gas connection
- ⑤ Drill hole/anchor point



## Technical data

### Voltage variants/electrical data

3 NAC 380–415 V, 50–60 Hz

Supply voltage	3NAC 380-415 V
Frequency	50–60 Hz
Power rating	1.0 kW
Required fuse rating (on site)	3 × 16 A
Connection cable, min. cross-section	5 x 1.5 mm <sup>2</sup>
Screw thread	M25

### Gas connection

Rated heat load	28 kW
Connector on the appliance as per ISO 7-1	½" male thread
Natural gas connection pressure (as per DIN EN 437)	See installation instructions
Threaded union required for natural gas (on site)	½" female thread
Liquid gas connection pressure (as per DIN EN 437)	See installation instructions
Threaded union required for liquid gas (on site)	½" female thread
<i>Alternative: precision steel tube as per DIN 2391/DIN 2393 with smooth end (on site)</i>	<i>Min. length 40 mm, DN 12</i>
<i>Sleeve ½" x ¾", screw thread: ¾" x DN 12</i>	

Requirements for the gas hose

Corrugated metal hose assembly made from stainless steel in accordance with DIN 3384 or hose in accordance with DIN EN 16617 with connections as per DIN 3384

### Vent connection

Diameter of vent connection	120 mm
Maximum exhaust air temperature (approx.)	135 °C
Fan power	0.45 kW
Fan air output (0 bar)	270 m <sup>3</sup> /h
Maximum permitted pressure loss	200 Pa

# PRI418 G (gas heating)

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## Dimensions/weight

Overall machine width	2469 mm
Overall machine height	1110 mm
Overall machine depth	1441 mm
Height adjustment via screw feet	29 mm
Roller length	1750 mm
Roller diameter	365 mm
Largest removable part	Heater plate
Width of largest removable part	500 mm
Height of largest removable part	270 mm
Depth of largest removable part	1855 mm
Packaging width	2576 mm
Packaging height	1388 mm
Packaging depth	1096 mm
Maximum gross volume	3918 l
Maximum gross weight	530 kg
Maximum net weight	453 kg
Maximum floor load in operation	4444 N

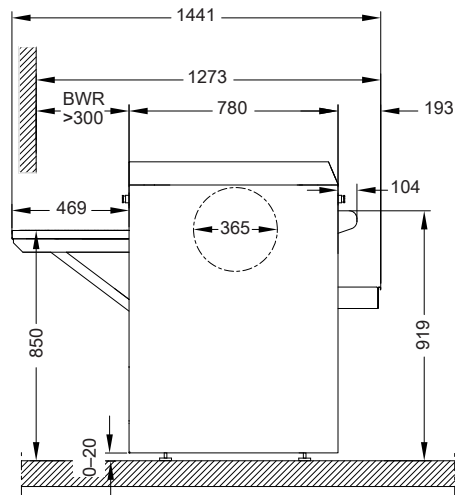
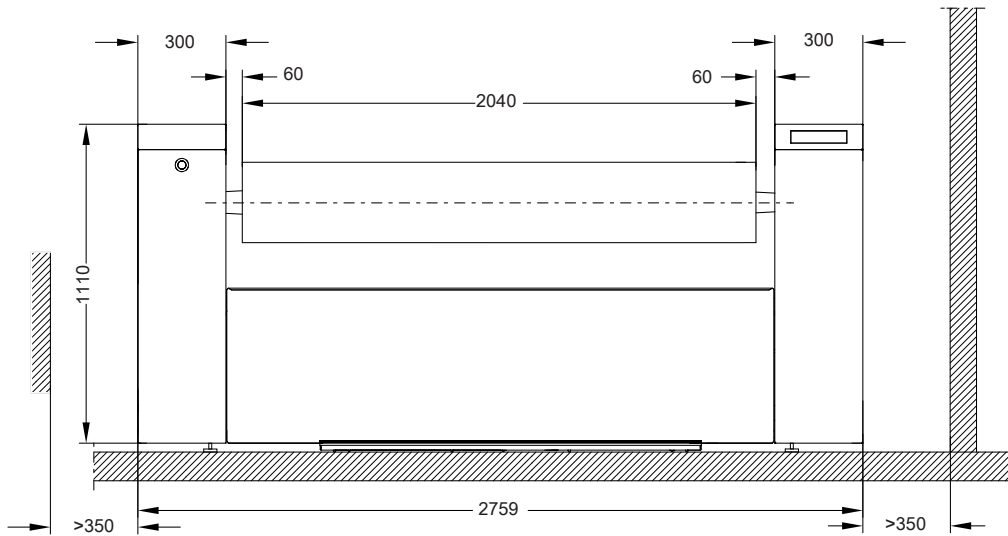
## Emissions data

Emission sound pressure level	60 dB(A) re 20 µPa
Heat dissipation rate to installation site	13.7 MJ/h

## Floor anchoring

Required anchor points	4
DIN 571 wood screw (diameter x length)	8 mm x 50 mm
Rawl plugs (diameter x length)	10 mm x 50 mm

Dimensions



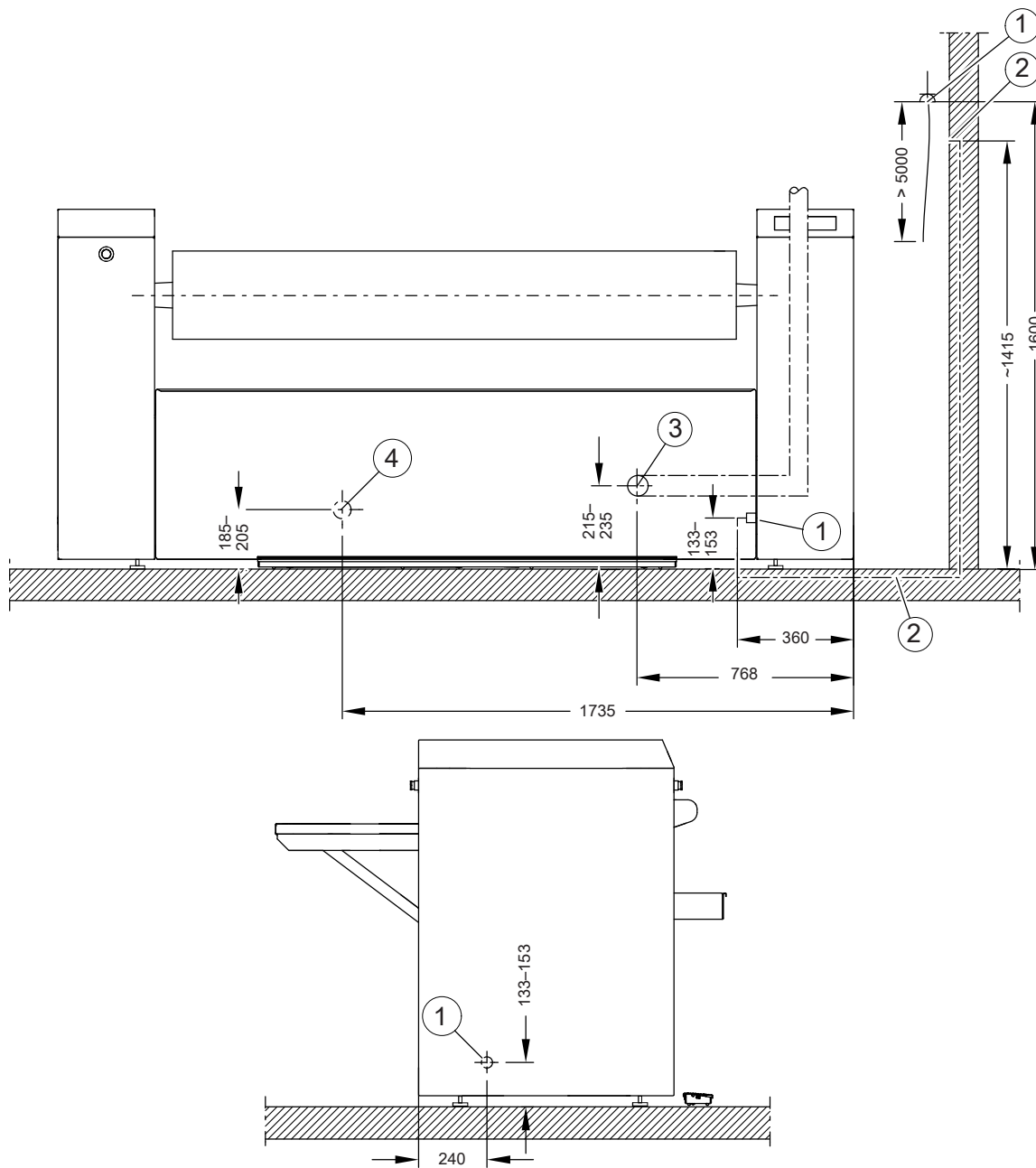
Dimensions quoted in millimetres

BWR Laundry return feed kit

Optional feature which allows the laundry to be removed from the front once it has been ironed.

# PRI421 G (gas heating)

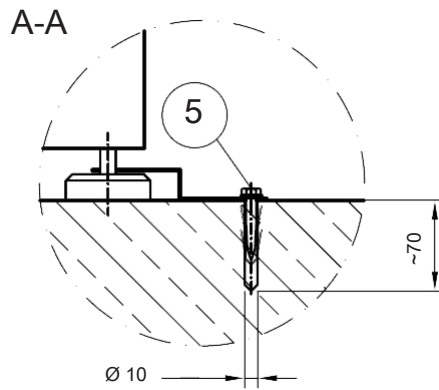
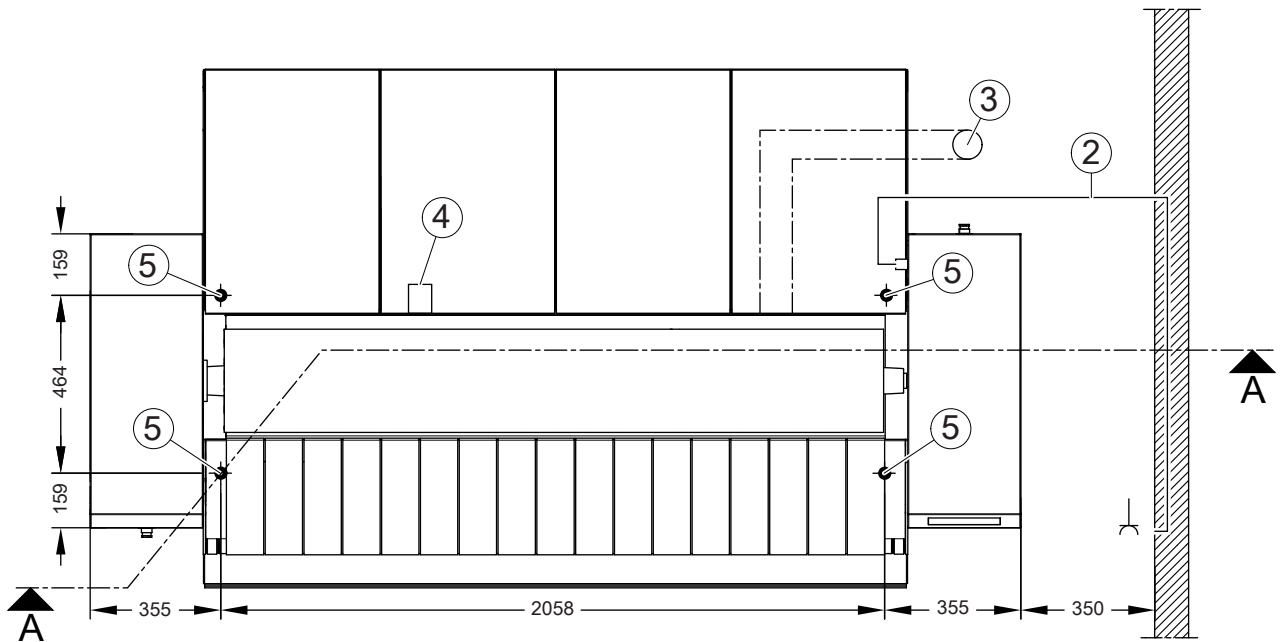
## Installation



Dimensions quoted in millimetres

- ① Electrical connection
- ② Electrical conduit  
For laying the electrical connection cable within the building structure.
- ③ Vent connection
- ④ Gas connection

Installation



Dimensions quoted in millimetres

- ② Electrical conduit  
For laying the electrical connection cable within the building structure.
- ③ Vent connection
- ④ Gas connection
- ⑤ Drill hole/anchor point

# PRI421 G (gas heating)

## Technical data

### Voltage variants/electrical data

3 NAC 380–415 V, 50–60 Hz

Supply voltage	3NAC 380-415 V
Frequency	50–60 Hz
Power rating	1.0 kW
Required fuse rating (on site)	3 × 16 A
Connection cable, min. cross-section	5 × 1,5 mm <sup>2</sup>
Screw thread	M25

### Gas connection

Rated heat load	30 kW
Connector on the appliance as per ISO 7-1	½" male thread
Natural gas connection pressure (as per DIN EN 437)	See installation instructions
Threaded union required for natural gas (on site)	½" female thread
Liquid gas connection pressure (as per DIN EN 437)	See installation instructions
Threaded union required for liquid gas (on site)	½" female thread
<i>Alternative: precision steel tube as per DIN 2391/DIN 2393 with smooth end (on site)</i>	<i>Min. length 40 mm, DN 12</i>
<i>Sleeve ½" x ¾", screw thread: ¾" x DN 12</i>	

Requirements for the gas hose

Corrugated metal hose assembly made from stainless steel in accordance with DIN 3384 or hose in accordance with DIN EN 16617 with connections as per DIN 3384

### Vent connection

Diameter of vent connection	120 mm
Maximum exhaust air temperature (approx.)	130 °C
Fan power	0.45 kW
Fan air output (0 bar)	270 m <sup>3</sup> /h
Maximum permitted pressure loss	200 Pa

## Dimensions/weight

Overall machine width	2759 mm
Overall machine height	1110 mm
Overall machine depth	1441 mm
Height adjustment via screw feet	29 mm
Roller length	2040 mm
Roller diameter	365 mm
Largest removable part	Heater plate
Width of largest removable part	500 mm
Height of largest removable part	270 mm
Depth of largest removable part	1096 mm
Packaging width	2866 mm
Packaging height	1388 mm
Packaging depth	1096 mm
Maximum gross volume	4359 l
Maximum gross weight	556 kg
Maximum net weight	477 kg
Maximum floor load in operation	4679 N

## Emissions data

Emission sound pressure level	60 dB(A) re 20 µPa
Heat dissipation rate to installation site	15.1 MJ/h

## Floor anchoring

Required anchor points	4
DIN 571 wood screw (diameter x length)	8 mm x 50 mm
Rawl plugs (diameter x length)	10 mm x 50 mm

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