CF/CFU ECONOX

CAST IRON FUEL OIL/GAS BOILERS



CFU...



CF...



EL 110SL CALORIFIER PLACED UNDER CFU OR CF BOILER



EL 160SL CALORIFIER PLACED UNDER CFU OR CF BOILER

FOR CHIMNEY CONNECTION:
CFU boilers with integrated fuel oil burner
CF boilers to be fitted with a fuel oil/gas burner

- **CFU AND CF:**
  from 22.2 to 46.4 kW, for central heating
- **CFU AND CF + CALORIFIER (CALORIFIER PLACED UNDER THE BOILER):**
  - Calorifier 110 litres EL 110SL
  - Calorifier 160 litres EL 160SL

FOR FORCED FLUE CONNECTION (with MY921 kit):
CFU boilers with integrated fuel oil burner
CF boilers to be fitted with a fuel oil/gas burner

- **CFU AND CF:**
  from 22.4 to 29.8 kW, for central heating
- **CFU AND CF + CALORIFIER (CALORIFIER PLACED UNDER THE BOILER):**
  - Calorifier 110 litres EL 110SL
  - Calorifier 160 litres EL 160SL

CF/CFU...: central heating

CF/CFU.../EL 110SL, CF/CFU.../EL 160SL: for heating and DHW production

OIL

CFU: domestic fuel oil
CF: domestic fuel oil or gas

CONDITIONS OF USE

boiler

Max. operating pressure: 3 bar
Max. operating temperature: 90 °C
Safety thermostat: 110 °C
Thermostat: 30 to 90°C adjustable

calorifiers

Max. operating pressure: 10 bar
Max. operating temperature: 95 °C

homologation

CF/CFU...: B_{23}
CFU...FF: C_{13}, C_{33}

NOx CLASSIFICATION

3 according EN 267

All the boilers CF/CFU... are supplied with E-Pilot control panel (see page 10).

The CF/CFU models 22 and 29 can be equipped with the MY445 hydraulic kit which includes an 18 l expansion vessel, a high energy efficiency modulating heating circulating pump EEI < 0.23, a non-return valve, an air vent, a heating safety valve and a manometer.

The boilers are basically supplied in chimney execution (B_{23}). For the 22 and 29 execution horizontal forced flue connection (homologation C_{13}) or vertical forced flue connection (homologation C_{33}) can be done by adding the MY921 kit.

CE identification no.: 0085CQ0004

De Dietrich
SUSTAINABLE COMFORT®

SUMMARY

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PRESENTATION OF THE RANGE

HIGH LEVELS OF PERFORMANCE

- Efficiency at 30% (average temp. 30°C) up to 97,3%
- Low pollution emission, NOx classification 3

STRONG POINTS

- Boiler complies with the requirements of the ErP Directives..
- Heat exchanger made of proven and robust eutectic grey cast iron for modulated low-temperature operation up to 30°C and complete cooling between 2 heating requirements.
- The 3-pass flue way and the open combustion chamber enable environmentally friendly combustion and silent running.
- **With CFU executions new compact, preset oil burner, integrated** under the boiler casing, low NOx and CO emissions that meet the most stringent requirements.
- E-Pilot control (**outside sensor as accessory**), programmable control system for running one direct circuit and one DHW circuit (optional DHW sensor) + one or two valve circuit(s) by connecting one or two «PCB + sensor for mixing valve» option(s).

- **The boilers with optional hot water storage tank CF / CFU… + EL 110SL and CF / CFU… + EL 160SL** have a **modular** concept with an enamelled hot water storage tank with coil heat exchanger and integrated protection via magnesium anode:
  - tank with **110 liters** in a uniform design, placed under the boiler, with a low height and installation depth.
  - tank with **160 liters** in a uniform design, placed horizontally under the boiler against the wall,with a low height and installation depth.

  EL 110SL and EL 160SL come with the DHW sensor.
  The optional boiler/tank connecting pipes (MY925) is delivered, with:
  - Modulating DHW load pump with an Energy Efficiency Index (EEI) < 0.23, to provide plenty of domestic hot water at all times.

- **The CF/CFU…** boilers are particularly easy to install and service:
  - Boilers are delivered in 1 package for the «heating only» versions,
  - By using the accessory MY921 the executions 22 and 29 can be transformed in forced flue versions,
  - Use of carrying bars possible,
  - All components are easily accessible,
  - Adjustable feet on the boiler and on the hot water storage tank.

- **The CFU…** 22 and 29 models can be equipped with MY445 insulated hydraulic kit including 18 liter expantion tank, high-effeciency modulating pump with EEI < 0.23, non return flat, air vent, safety valve and manometer.

DE DIETRICH ECO-SOLUTIONS

ENERGY LABEL

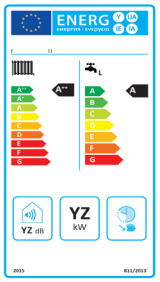
Each boiler comes with its energy label, which incorporates various items of information: energy efficiency, annual energy consumption, manufacturer's name, noise level… If you combine your boiler, for instance, with a solar system, a DHW storage tank, a control device or another generator, you can improve your system's performance and generate the corresponding «system» label.
Go to our website « dedietrich-heating.com »

ECO SOLUTIONS
Eco-conception by De Dietrich

De Dietrich ECO-SOLUTIONS give you the latest generation of multi-energy products and systems: simpler, more efficient and more economical to guarantee your comfort and protect the environment.

The energy label associated with the ECO-SOLUTIONS label indicates the product performance.

www.dedietrich-heating.com



CF/CFU....ECONOX MODELS

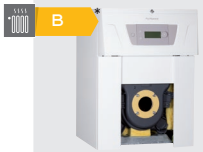
BOILER CF/CFU ECONOX

EASYLIFE



CF_Q0002

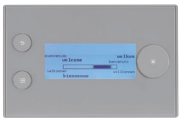
Models equipped with burner: for central heating CFU ...



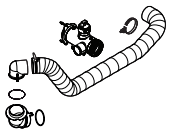
CF_Q0001

Models without burner: CF ...

MODELL	OUTPUT AT 50/30°C (KW)	E-PILOT CONTROL PANEL	OPTION: FORCED FLUE KIT (MY921)
CFU-22	22.4		x
CFU-29	29.8		x
CFU-36	37.2		-
CFU-46	46.4		-
CF-22	22.4		-
CF-29	29.8		-
CF-36	37.2		-
CF-46	46.4		-



CF_Q0007



CF_F0056

* With reference burner type: F 10N3 for CF 22 and CF 29, M 100/2S for CF 36, M 100/3S for CF 46

PERFORMANCES WITH DHW CALORIFIERS EL 110SL AND EL 160SL



CF_Q1554



CF_Q1555

MODELL	CFU	22/EL 110SL	22/EL 160SL	29/EL 160SL
Nominal output boiler	kW	22.4	22.4	29.8
DHW calorifier capacity	L	110	160	160
DHW exchanged power	kW	22.4	22.6	26.4
Specific rate at ΔT = 30 K (compl. with EN 13203-1)	L/min	18.5	24	25
Flow per hour at ΔT = 35 K	L/h	550	555	650
Flow over 10 min at ΔT = 30 K	L/10 min	190	245	250
Coefficient of heat losses	W/K	1.46	1.52	1.52
Net weight	kg	259	275	293

DHW performances at room temperature at Pn: 20°C, cold water temp. at Pn: 10°C, temp. hot water at Pn: 45°C, primary hot water: 80°C, storage temp.: 60°C

TECHNICAL SPECIFICATIONS

Boiler models:
- CF/CFU…: for central heating
- CF/CFU… + EL…: heating + DHW production with calorifier

Boiler type: low temperature

Burner:
- CFU: built-in
- CF: without

Energy used:
- CFU: fuel oil
- CF: fuel oil or gas

Combustion evacuation:
- CF/CFU…: chimney
- CFU ….22/29 forced flue: sealed with accessory MY921

Average operating temperature:
- 30 to 90°C adjustable

EC identification No.: CE-0085CQ0004

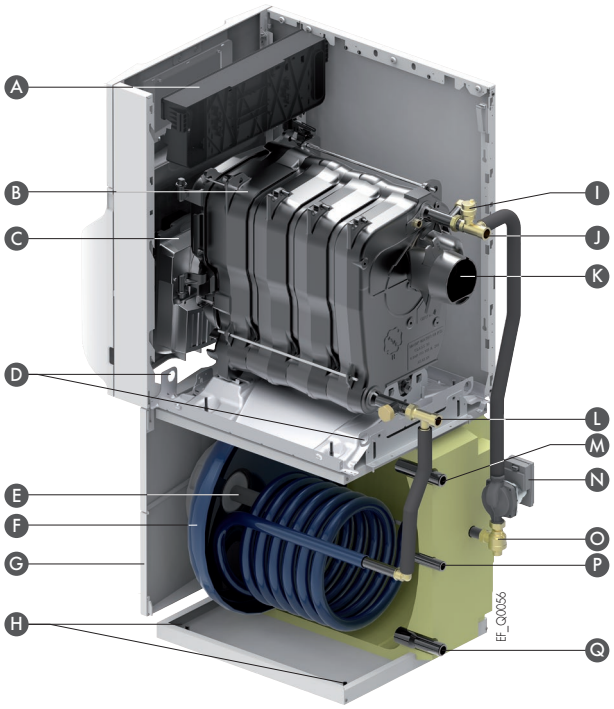
BOILER SPECIFICATIONS

MODELLE		CF/CFU...	22	29	36	46
Nominal Output	• nominal rated at Q_{nom} [2] (P_{n_gen})*	kW	22,4	29,8	37,2	46,4
	• intermediary rated at 30% of Q_{nom} [2] (P_{int})*	kW	7,0	9,3	11,6	14,5
Efficiency at % PCI, water temp.	• 100% at average temperature - 70°C*	%	93,3	93,1	93,1	92,7
	• 30% at return temperature - 30°C *	%	97,3	96,6	97,0	96,7
Seasonal space heating energy efficiency CFU (without contribution of controls)		%	86	86	86	86
Nominal water output at P_{n_gen} and $\Delta T = 20$ K		m^3/h	0,964	1,282	1,602	1,994
Stand-by losses at $\Delta t = 30$ K (Q_{Po30})		W	83	95	109	122
Electrical pump power	• auxiliaries (without pump) at P_{n_gen} (Q_{aux})**	W	152	162	156	160
	• auxiliaries on standby (Q_{veille})	W	4	4	4	4
	• pump at P_{n_gen} [1][3] ($P_{circ\text{-}ch}$)	W	24	24	-	-
Water content		l	24,5	30,0	35,5	41
Water resistance at $\Delta t = 20$ K		mbar	5	9	13	22
Flue gas mass flow rate		kg/h	36	48	59	76
Pressure available at the boiler outlet (CF/CFU… - chimney models)		Pa	5	5	5	5
Manometric height available heating circuit [3]		mbar	573	483	-	-
Net boiler weight	• CFU…	kg	170	192	229	253
	• CF…	kg	158	181	221	244

* Certified value
** with reference burner type F10N3
(1) Modulating pump controlled by the boiler $Id_{circ\text{-}ch} = 3$: ΔPV
(2) Qnom = nominal imput
(3) Only when equipped with hydraulic set MY445

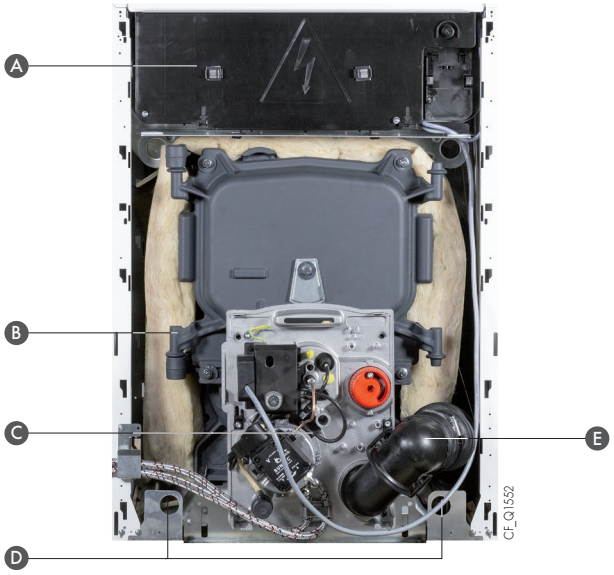
DESCRIPTION

CFU... MODEL WITH EL 110SL CALORIFIER



A E-Pilot control panel (see page 11)
B Heating exchanger in eutectic cast iron
C Preset fuel oil jet burner
D Opening for portage bars
E Magnesium anode
F Glass-lined coil calorifier
G 110-litre domestic hot water tank isolated
H Adjustable feets
I Automatic air vent
J Heating flow
K Chimney connection
L Heating return
M Domestic hot water outlet
N Heating pump with energy efficiency index EEI < 0.23
O Draining valve
P Circulation loop connection
Q Domestic cold water inlet

FRONT VIEW (WITHOUT TOP COVER) OF THE CFU... MODEL WITH FORCED FLUE CONNECTION KIT MY921

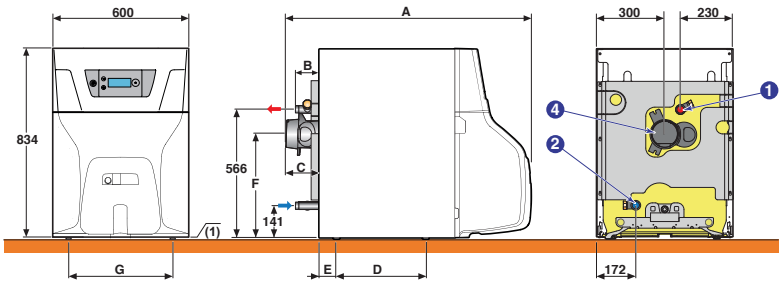


A Control panel
B Hinged burner door
C Compact, preset burner, integrated under the front boiler cover with low NOx and CO emissions that meet the most stringent requirements
D Opening for portage bars
E Combustive air inlet on the burner in forced flue configuration

MAIN DIMENSIONS

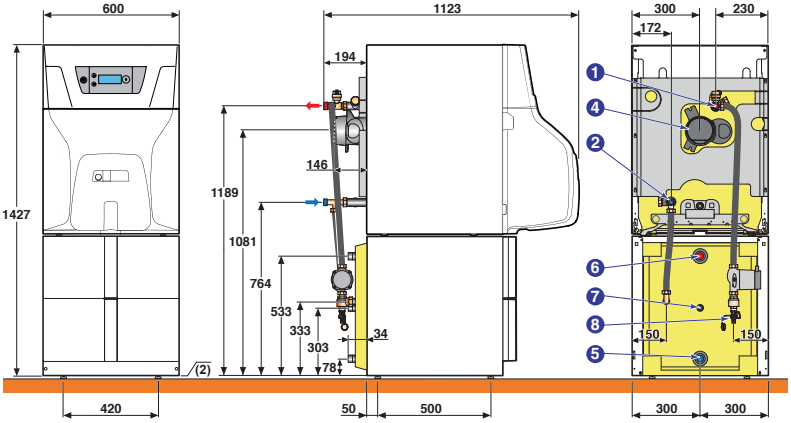
CAST IRON COMPACT BOILERS WITH INTEGRATED FUEL OIL JET BURNER

CFU...



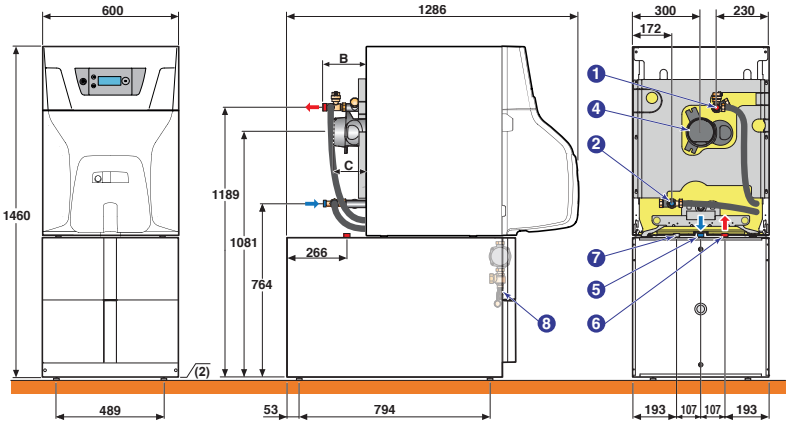
CF_F0029

CFU... + EL 110SL



CF_F0030

CFU... + EL 160SL



CF_F0031

MODEL	A	B	C	D	E	F	G
CFU 22	1075	102	146	397	75	458	460
CFU 29	1202	229	272	397	75	458	460
CFU 36	1384	100	194	696	52	449	280
CFU 46	1510	227	321	823	75	449	280
CFU 22 + EL 110SL	1123	194	146	-	-	-	-
CFU 22 + EL 160SL	-	194	146	-	-	-	-
CFU 29 + EL 160SL	-	321	272	-	-	-	-

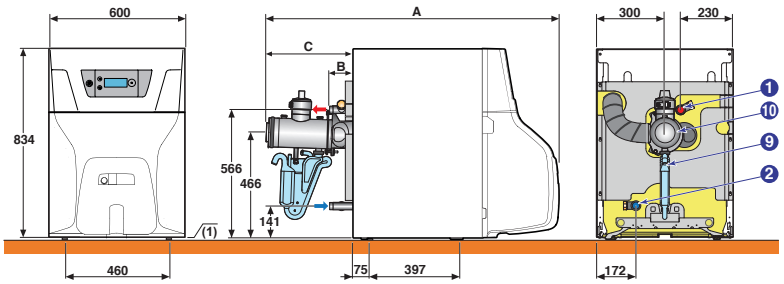
① Heating flow G 1"
② Heating return G 1"
④ Chimney connections: • CFU 22, 29: Ø 125 mm
• CFU 36, 46: Ø 153 mm
⑤ Domestic cold water inlet G 1"
⑥ DHW outlet G 1"
⑦ Circulation loop connection (optional) G 3/4"
⑧ Draining valve, for pipe Ø 14 mm int.

(1) Adjustable feets: • CFU 22, 29: from 9 to 35 mm
• CFU 36, 46: from 19 to 45 mm
(2) Adjustable feets from 10 to 30 mm

MAIN DIMENSIONS

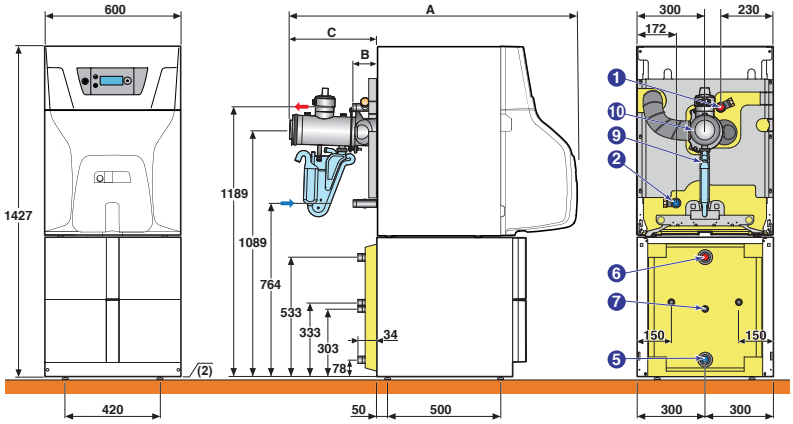
CAST IRON COMPACT BOILERS WITH INTEGRATED FUEL OIL JET BURNER, FORCED FLUE VERSION (WITH MY921 KIT)

CFU... FF



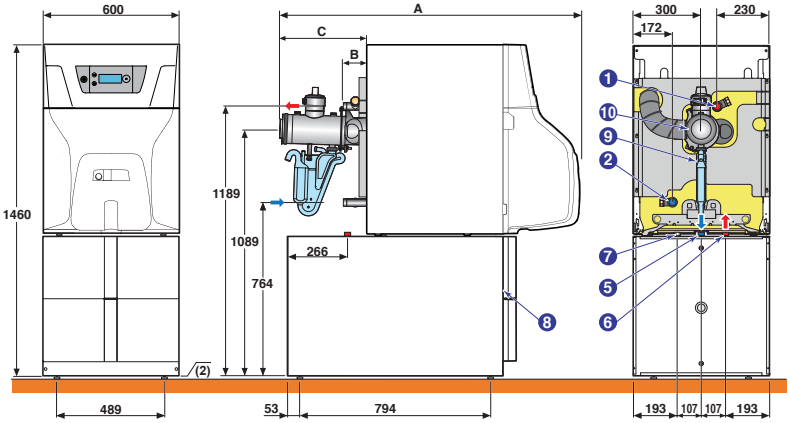
CF_F0159

CFU... FF + EL 110SL



CF_F0160

CFU... FF + EL 160SL



CF_F0161

MODEL	A	B	C
CFU 22 FF	1406	102	433
CFU 29 FF	1505	226	557
CFU 22 FF + EL 110SL	1406	102	433
CFU 22 FF + EL 160SL	1406	102	433
CFU 29 FF + EL 160SL	1505	225	557

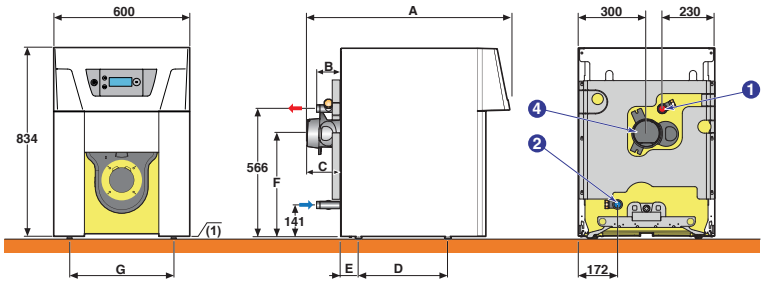
① Heating flow G 1"
② Heating return G 1"
⑤ Domestic cold water inlet G 1"
⑥ DHW outlet G 1"
⑦ Circulation loop connection (optional) G 3/4"
⑧ Draining valve, for pipe Ø 14 mm int.
⑨ Condensate evacuation
⑩ Air-flue gas connection Ø 80/125 mm

(1) Adjustable feets from 9 to 35 mm
(2) Adjustable feets from 10 to 30 mm

MAIN DIMENSIONS

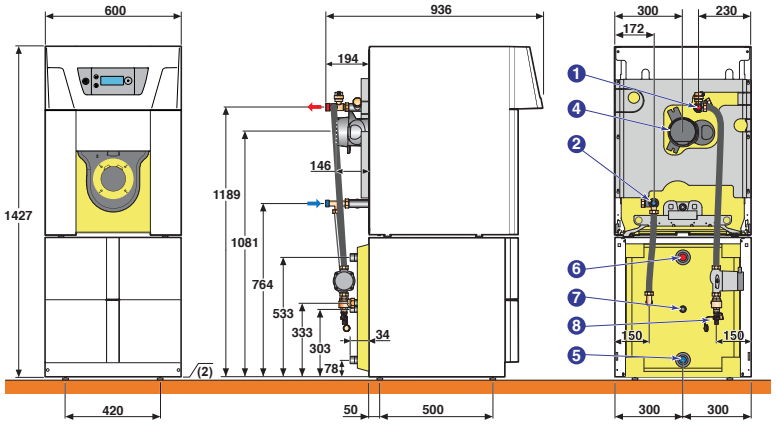
CAST IRON COMPACT BOILERS MODELS TO BE FITTED WITH A FUEL OIL OR GAS JET BURNER, « CHIMNEY »

CF...



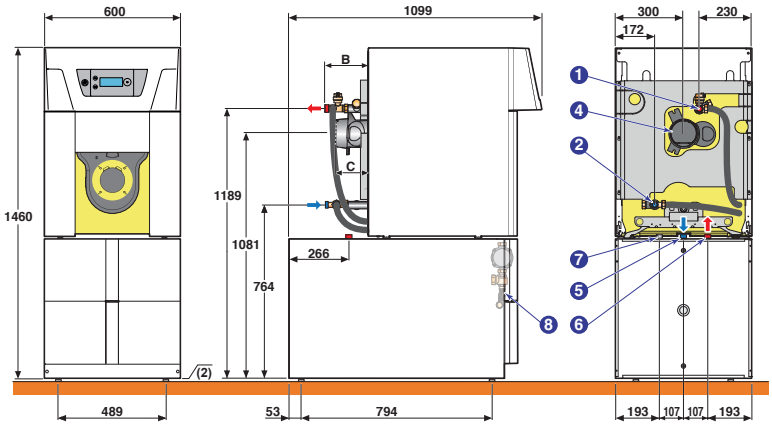
CF_F0026

CF... + EL 110SL



CF_F0027

CF... + EL 160SL



CF_F0028

MODEL	A	B	C	D	E	F	G
CF 22	890	102	146	397	75	458	460
CF 29	1017	226	270	397	75	458	460
CF 36	1214	98	190	696	52	449	280
CF 46	1342	225	320	823	-75	449	280
CF 22 + EL 110SL	936	194	146	-	-	-	-
CF 22 + EL 160SL	-	194	146	-	-	-	-
CF 29 + EL 160SL	-	321	270	-	-	-	-

① Heating flow G 1"
② Heating return G 1"
④ Chimney connections: • CF 22, 29: Ø 125 mm
• CF 36, 46: Ø 153 mm
⑤ Domestic cold water inlet G 1"
⑥ DHW outlet G 1"
⑦ Circulation loop connection (optional) G 3/4"
⑧ Draining valve, for pipe Ø 14 mm int.

(1) Adjustable feets: • CF 22, 29: from 9 to 35 mm
• CF 36, 46: from 19 to 45 mm
(2) Adjustable feets from 10 to 30 mm

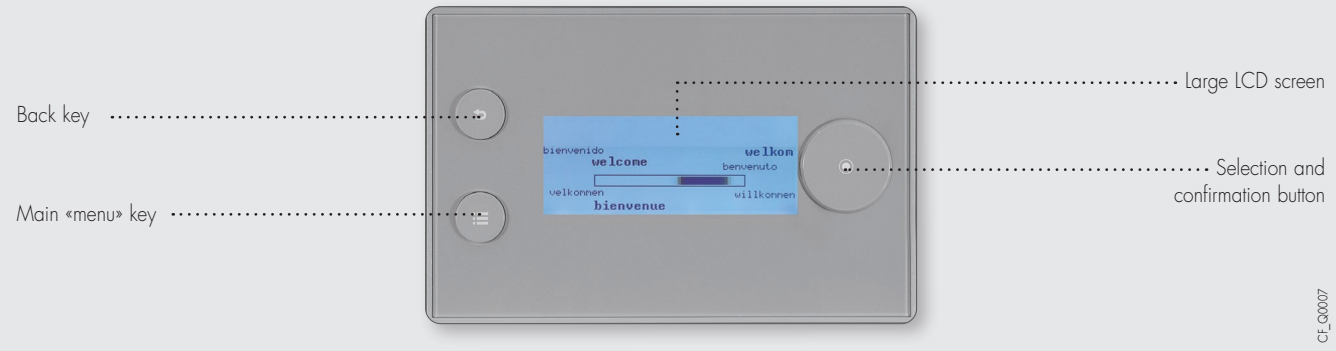
CONTROL PANEL
E-PILOT

E-PILOT CONTROL PANEL

The control panels fitted to CF/CFU EcoNox boilers incorporate an electronic control system used to adapt heating output to the actual needs of the installation according to the outside temperature when outside sensor is connected (sensor available as accessory).

With CF/CFU EcoNox, it can be used to manage a single direct circuit, which may be a radiator circuit but also to manage an additional circuit with a 3-way mixing valve by adding the PCB MY440 available as accessory.

The control can also be used to manage domestic hot water.



E-PILOT CONTROL PANEL OPTIONS



PCB + SENSOR FOR 1 MIXING VALVE (LONG. 2.5 m) - PACKAGE MY440

This is used to control a mixing valve with an electromechanical or electrothermal motor.
The PCB is inserted into the E-Pilot panel and connected using socket and pin connections.
For models CFU 36 and 46, E-Pilot can receive 1 or 2 « PCB + sensor » options, enabling it to control 1 or 2 mixing valves.



DOMESTIC HOT WATER SENSOR (LONG. 5 m) - PACKAGE AD212

The domestic hot water sensor is used to apply priority regulation to DHW production by an independent tank.

CHOICE OF OPTIONS ACCORDING TO THE CONNECTED CIRCUITS

		Circuit type	DHW	direct	valve	direct + valve	direct + 2 x valve	or 2 x valve
Control panel	E-pilot	CFU 19/24/32	AD212 (1)	as standard (2)	MY440 (2)	MY440 (2)	no	
		CFU 40/50	AD212 (1)	as standard (2)	MY440 (2)	MY440 (2)	2 x MY440 (2)	

Regulation according to the room temperature:
(1) DHW sensor delivered with tanks EL 110SL and EL 160SL.
(2) Each of the circuits **"heating"** can be completed in choice by a remote control (package AD337, AD338, AD140, AD304, AD303 or AD324)

OUTDOOR SENSOR AND COMPATIBLE ROOM THERMOSTATS

AD337



AD338



TH_Q0001/TH_Q0002

ROOM THERMOSTAT PROGRAMMABLE:
• WIRED - PACKAGE AD337
• WIRELESS - PACKAGE AD338

This thermostat controls the heating according to several operating modes:
- AUTOMATIC: according to the hourly programming, the setpoint temperature automatically changes from Comfort to Economy and vice versa. It is also possible to remain in Permanent Comfort, Permanent Reduced or Permanent Frost Protection
- ABSENCE: this mode allows you to set a permanent temperature between 5 and 15°
- MANUAL: this mode allows you to switch from Comfort to Economy (or vice versa) until the next program change.
- STOP: this mode allows you to stop the heating demand in summer for example.



8801Q003

ROOM THERMOSTAT NON-PROGRAMMABLE - PACKAGE AD140

Programmable thermostats provide weekly programming and regulation of the heating according to the various operating modes: "Automatic" depending on the programming, "Permanent" at a set temperature or "Holiday". The wireless version includes an emitter module which is fixed to the wall near the boiler.
The non-programmable thermostat is only used to regulate the room temperature based on the specific setpoint.

AD304



AD303



isense_Q0004/ isense_Q0003

MODULATING ROOMTHERMOSTAT WITH ENERGY METERING:
• WIRE - PACKAGE AD304
• WIRELESS - PACKAGE AD303

These thermostats handle the regulation and programming of the heating **and of DHW.** They include adjustment parameters for the CF/CFU EcoNox boiler: heating curve maxi temperature boiler, fan speed,… and an energy metering estimate (number of heating pump, DHW or total operating hours). The regulator adapts the power boiler to the needs. 3 modes of operating are possible:
- AUTOMATIC: according the weekly programming used: for each programmed period, we can indicate the set temperature.
- PERMANENT: maintains the set temperature chosen for the day, night or antifreeze.
- VACATION: intended for absences of long duration. Allows to bring in the dates of beginning and end of the vacation as well as the desired temperature.

The version « wireless » is delivered with a transmitter-receiver to be fixed to the wall near the boiler.

AD324



AD341



AD342

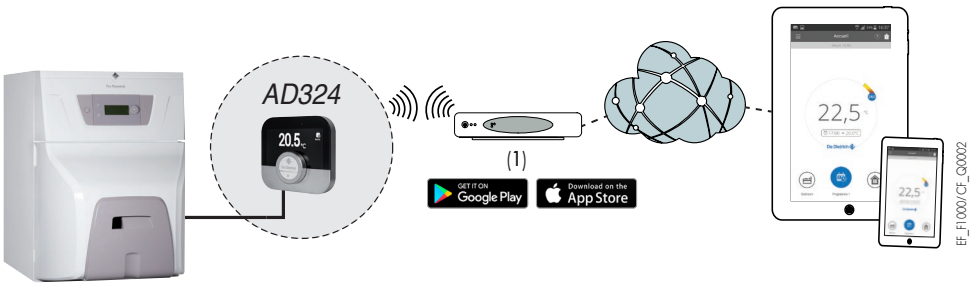


SMARTTC_Q5002/SMARTTC_Q5000/SMARTTC_Emetteur RF

CONNECTED ROOM THERMOSTAT SMART TC°:
• R-BUS (WIRE) - PACKAGE AD324
• RF (WIRELESS) - PACKAGE AD341
• RF (WIRELESS) FOR 2ND CIRCUIT - PACKAGE AD342

This enables **remote control of the heating and domestic hot water** via an app which is free to download and **simple to use, with the option a professional can have access to your installation (with authorisation)**.
It is used to remote control the installation, including programmed times of operation and access to settings such as checking the energy consumption using data logs.
Smart TC° can also be used as a standard thermostat without using WiFi or any other app, although you are recommended to keep it connected to the Internet to benefit from the latest updates.
For more details see dedicated technical leaflet.

installation principle



EF_F1000/CF_Q0002

(1) If the SMART TC° can operate as a classic remote control, it is recommended to connect it to the internet to get the the latest updates

AD_Q0050



OUTDOOR SENSOR (WIRELESS) - PACKAGE AD346

The external "radio" sensor is available as an option for installations where the installation of the external wired sensor supplied with the E-PILOT panel is too complicated. If this sensor is used with a radio remote control (AD341), it is not necessary to order a second "radio" module.

AD_Q0050



OUTDOOR SENSOR - PACKAGE FM46

This is used to measure the outside temperature and allows the control of heating circuits.

BOILER OPTIONS

HYDRAULIC MODULES

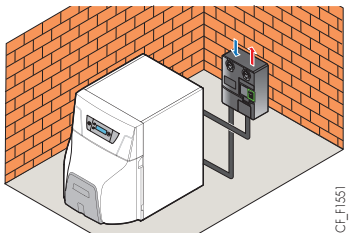
Using the various options presented on the next page, it is possible to put together complete hydraulic connection kits depending on the installation to be constructed.

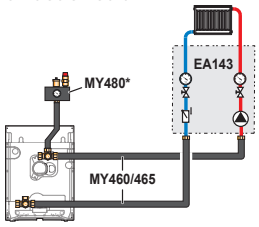
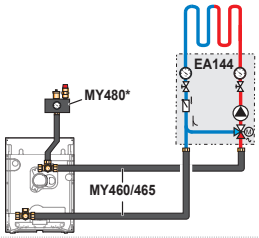
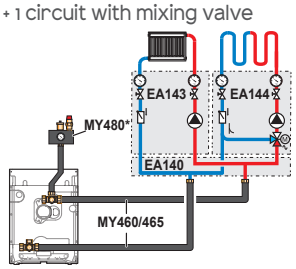
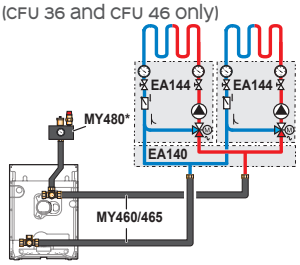
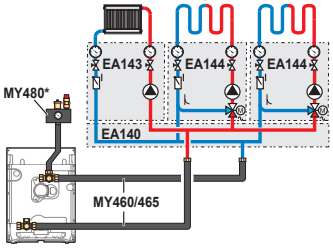


EA143 EA144

PACKAGES REQUIRED ACCORDING TO THE TYPE OF INSTALLATION

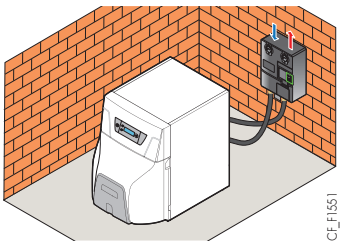
SELF SUPPORTING MODULES

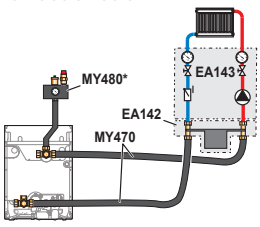
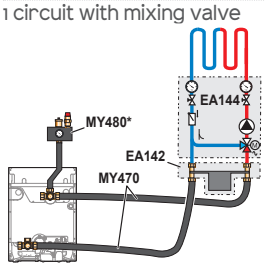
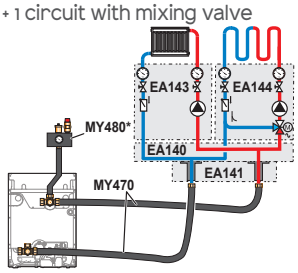
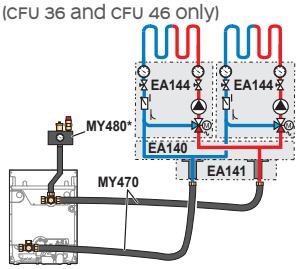
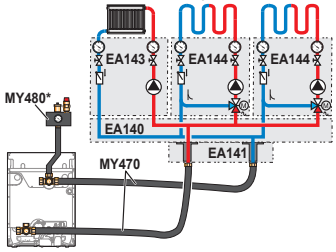


BOILER TYPE ▶ TYPE OF INSTALLATION TO BE CONSTRUCTED ▼	CF/CFU ECONOX
1 direct circuit 	MY460 (connecting to the right) or MY465 (connecting to the left) + EA143
1 circuit with mixing valve 	MY460 (connecting to the right) or MY465 (connecting to the left) + EA144 + Control unit option MY440
1 direct circuit + 1 circuit with mixing valve 	MY460 (connecting to the right) or MY465 (connecting to the left) + EA140 + EA143 + EA144 + Control unit option MY440
2 circuits with mixing valve (CFU 36 and CFU 46 only) 	MY460 (connecting to the right) or MY465 (connecting to the left) + EA140 + 2 x EA144 + Control unit option 2 x MY440
3 circuits, 2 of them with a mixing valve (CFU 36 and CFU 46 only) 	MY460 (connecting to the right) or MY465 (connecting to the left) + EA140 + EA143 + 2 x EA144 + Control unit option 2 x MY440

* Option

HYDRAULIC MODULES MOUTING ON WALL



BOILER TYPE ▶ TYPE OF INSTALLATION TO BE CONSTRUCTED ▼	CF/CFU ECONOX
1 direct circuit 	MY470 (central, to the right or to the left connecting pipes) + EA142 + EA143
1 circuit with mixing valve 	MY470 (central, to the right or to the left connecting pipes) + EA142 + EA144 + Control unit option MY440
1 direct circuit + 1 circuit with mixing valve 	MY470 (central, to the right or to the left connecting pipes) + EA140 + EA141 + EA143 + EA144 + Control unit option MY440
2 circuits with mixing valve (CFU 36 and CFU 46 only) 	MY470 (central, to the right or to the left connecting pipes) + EA140 + EA141 + 2 x EA144 + Control unit option 2 x MY440
3 circuits, 2 of them with a mixing valve (CFU 36 and CFU 46 only) 	MY470 (central, to the right or to the left connecting pipes) + EA140 + EA141 + EA143 + 2 x EA144 + Control unit option 2 x MY440

* Option

CF_FI555

BOILER OPTIONS

DHW PRODUCTION

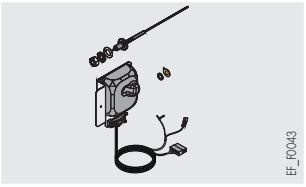
DESCRIPTION



CALORIFIER EL 110SL - PACKAGE ER590

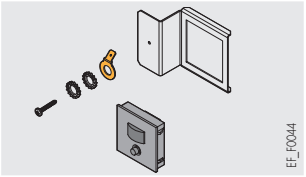


CALORIFIER EL 160SL - PACKAGE ER592



KIT ANODE « ACI» - PACKAGE MY475

To replace the magnesium anode fitted as standard to DHW tanks in the CF/ CFU… + EL 110SL and CF/CFU… + EL 160SL versions.



MAGNESIUM ANODE TESTER - PACKAGE MY456

Is mounted at the front of the boiler beneath the cover and can be used to view the state of wear of the magnesium anode fitted to the CF/ CFU… + EL 110SL and CF/CFU… + EL 160SL versions.



CONNECTION KIT CF/CFU WITH AN INDEPENDENT OR A SOLAR CALORIFIER - PACKAGE ER599

This kit comprises the load pump (modulating with an Energy Efficiency Index (EEI) < 0.23), the non-return valve and the connecting pipes for linking (non-equipped) CF/CFU… to an independent BPB/BLC or solar BSL.



CONNECTION KIT CFU/CF WITH EL 110SL CALORIFIER OR EL 160SL - PACKAGE MY925

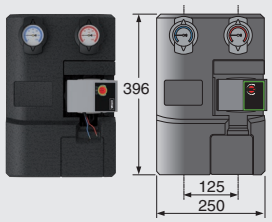
This kit comprises the load pump (modulating with an Energy Efficiency Index (EEI) < 0.23), the non-return valve and the connecting pipes for linking CF/CFU… boilers to a EL 110SL or EL 160SL calorifiers.

BOILER OPTIONS

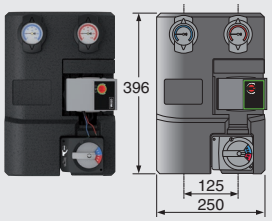
HYDRAULIC MODULES, HYDRAULIC EQUIPMENT SET

DESCRIPTION

EA143



EA144



8575Q062 - 8575F200 - 8575Q063 - 8575F200

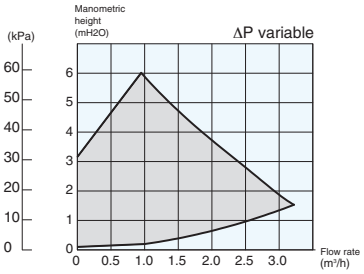
HYDRAULIC MODULE FOR 1 DIRECT CIRCUIT - PACKAGE EA143

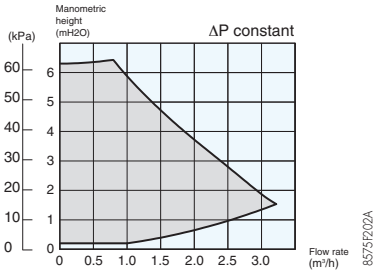
Fully assembled, insulated and tested; fitted with an electronic pump, thermometers built into the gate valves, and a non return valve built into the return valve.

HYDRAULIC MODULE FOR 1 CIRCUIT WITH VALVE - PACKAGE EA144

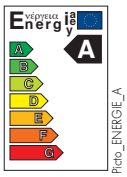
Fully assembled, insulated and tested, fitted with an electronic pump, a motorized 3-way mixing valve, thermometers built into the gate valves and a non-return valve built into the return valve.

specifications heating circulating pump WILO YONOS PARA RS 25/6 fitted to the hydraulic module EA143 and EA144





8575F202A



Picto_ENERGIE_A

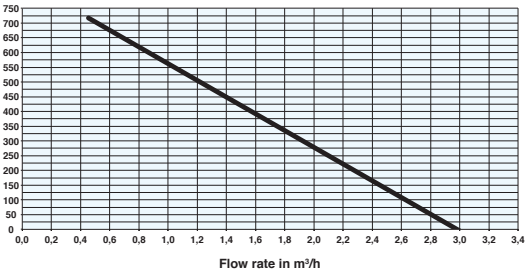


EF_Q0044

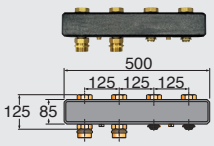
HYDRAULIC EQUIPMENT SET - PACKAGE MY445

Hydraulic equipment set completely insulated to be integrated in the boiler. Consists out of: an 18 liter expansion tank, a modulating high-efficiency heating pump with EEI <0.23, a non-return flap, an air vent, a safety valve and a manometer.

MANOMETRIC HEIGHT AVAILABLE FOR THE HEATING CIRCUIT WITH THE PUMP TYPE WILO YONOS PARA RS 15/7.0 WITH KIT MY445 FITTED TO CF/CFU 22 AND 29 BOILERS



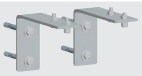
EF_F0064B



8575F201 - 8575Q065

INSULATED COLLECTOR FOR 2 OR 3 MODULES - PACKAGE EA140

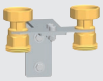
With an installation with 2 or 3 circuits with modules EA143/144.



8575Q066

SET OF 2 WALL CONSOLES FOR COLLECTOR - PACKAGE EA141

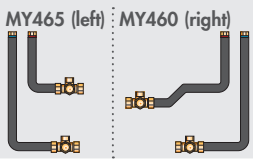
These consoles are used to fix the collector to the wall.



8575Q067

INSULATED COLLECTOR FOR 1 HYDRAULIC MODULE - PACKAGE EA142

This console allows secure one hydraulic module for one direct circuit or circuit with mixing valve on the wall.
It is used only when one of the two hydraulic modules is mounted. It includes two brass male / female connectors.

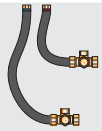


CF_F1555

CONNECTION KIT BOILER/COLLECTOR FOR CONNECTION TO THE:

- RIGHT - PACKAGE MY460
- LEFT - PACKAGE MY465

Can be used for hydraulic kit made up of 1, 2 or 3 circuit(s).



CF_F1555

BOILER/MODULE CONNECTING PIPES FOR CF/CFU ECONOX (FLEXIBLES) - PACKAGE MY470

Can be used for hydraulic kit made up of 1, 2 or 3 circuit(s).



CF_F1555

HYDRAULIC SAFETY KIT - PACKAGE MY480

Included an automatic air vent, a safety valve calibrated at 3 bars, and a nanometer. It's mounted to the upper connection cross.

BOILER OPTIONS

OTHER

DESCRIPTION



FUEL OIL M... BURNERS

The fuel oil or gas burners available are particularly compact and silent burners, especially designed to obtain high efficiency and combustion quality.

burner recommendation per boiler type:

BOILER	BURNER FUEL OIL
CF 22	M 100 RS, M 100/1 S or M 201-4X
CF 29	M 100/2 S or M 201-4X
CF 36	M 100/2 S or M 201-7X
CF 46	M 100/3 S or M 201-7X

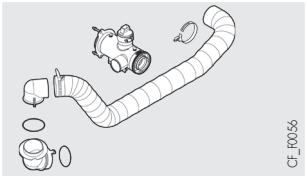
NB: the specifications and performances of these burners are given in the various technical booklets which cover them.



FUEL FILTER WITH DEAERATOR « FLOCOTOP » - PACKAGE MT11

The installation of this filter is **strongly recommended**. It is fitted to the fuel oil tank outlet via a single-pipe circuit and is used:

- To eradicate problems relating to the use of fuel oil at low temperatures;
- To provide cleaner combustion thanks to a constant spray angle and a stable flame;
- To improve burner acoustics;
- To draw off the correct quantity of fuel oil needed and eliminate the risk of dirt being pumped into the system.



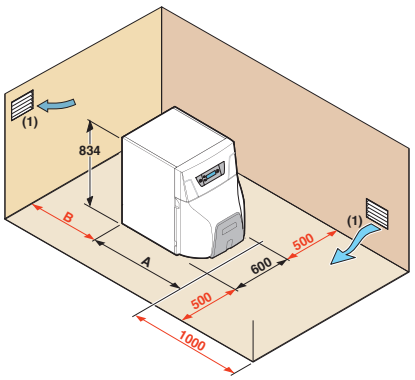
FORCED FLUE EQUIPMENT KIT 22/29 - PACKAGE MY921

REQUIRED INFORMATION
FOR INSTALLATION

INSTALLATION IN THE BOILER ROOM

The dimensions shown are the minimum recommended dimensions for providing adequate access around the boiler.

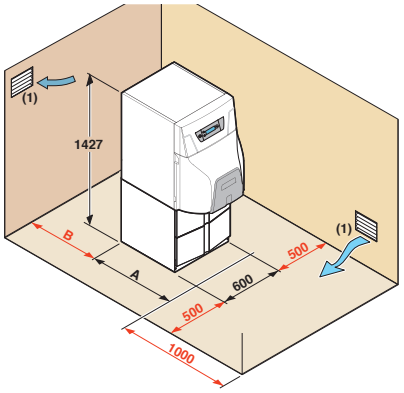
CF/CFU...



CF_FI.552

		22	29	36	46
A	CFU... (mm)	1075	1202	1384	1510
	CFU... FF (mm)*	1362	1489	-	-
	CF... (mm)	806	933	1159	1286
B	CF/CFU... (m)	0,5	0,5	0,5	0,5
	CFU... FF (m)*	1	1	-	-

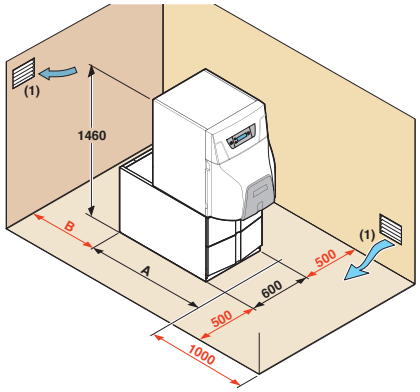
CF/CFU... + EL 110SL



CF_FI.553

		22
A	CFU... (mm)	1123
	CFU... FF (mm)*	1362
	CF... (mm)	852
B	CF/CFU... (m)	0,5
	CFU... FF (m)*	1

CF/CFU... + EL 160SL



CF_FI.554

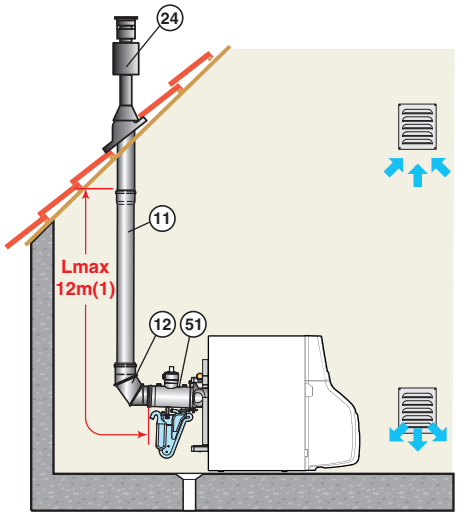
		22	29
A	CFU... (mm)	1286	1286
	CFU... FF (mm)*	1362	1489
	CF... (mm)	1015	1015
B	CF/CFU... (m)	0,5	0,5
	CFU... FF (m)*	1	1

(1) Boiler room ventilation not required in C_{13}, C_{33} and C_{93} configurations.
* : with MY921 kit

AIR-FLUE GAS CONNECTION WITH MY921 KIT (CFU... FF)

For the use of the air/flue gas connection pipes and the rules on installation, see details of the various configurations in the current product catalogue.

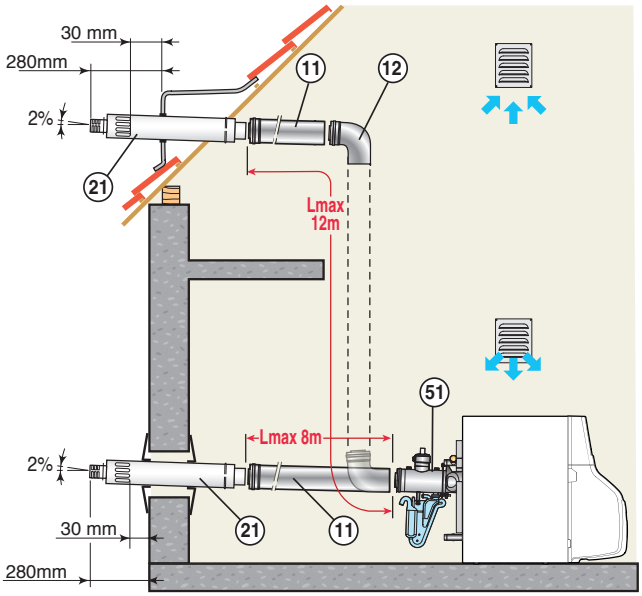
CONFIGURATION C_{33} - CONCENTRIC VERTICAL FORCED FLUE



CF_F0055

(1) For each additional metre of horizontal pipe, remove 1.2 m from the vertical length Lmax shown in the table below

CONFIGURATION C_{13} - CONCENTRIC HORIZONTAL FORCED FLUE



CF_F0054

⑪ Concentric extension
⑫ Concentric elbow
㉑ Horizontal forced flue
㉔ Vertical forced flue
㊶ Forced flue kit (MY921)

TABLE OF MAXIMUM AIR/FLUE GAS PIPE LENGHTS ADMISSIBLE ACCORDING TO BOILER TYPE

TYPE OF AIR/FLUE GAS CONNECTION			L_{MAX}: MAXIMUM LENGTH OF THE CONNECTING PIPES (IN METRES) CF/CFU... WITH MY921 KIT
Concentric pipes connected to an horizontal air/flue gas terminal (**Inox**)	C_{13}	Ø 80/125 mm	12 (1)
Concentric pipes connected to a vertical terminal (**Inox**)	C_{33}	Ø 80/125 mm	12

(1) With an horizontal concentric pipe which doesn't exceed 8 m.

HYDRAULIC CONNECTIONS

EXAMPLES OF INSTALLATION

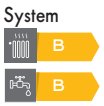
The examples presented below cannot cover the full range of installation scenarios which may be encountered. Their purpose is to draw the attention to the basic rules to be followed. A certain number of control and safety devices (some of which are already integrated as standard in CF/CFU EcoNox boilers) are represented but it is ultimately up to installers, experts, consultant engineers and design departments to take the final decision on the safety and control devices to be used in the boiler room according to its specificities. In all cases, it is necessary to abide by the codes of practice and prevailing regulations.

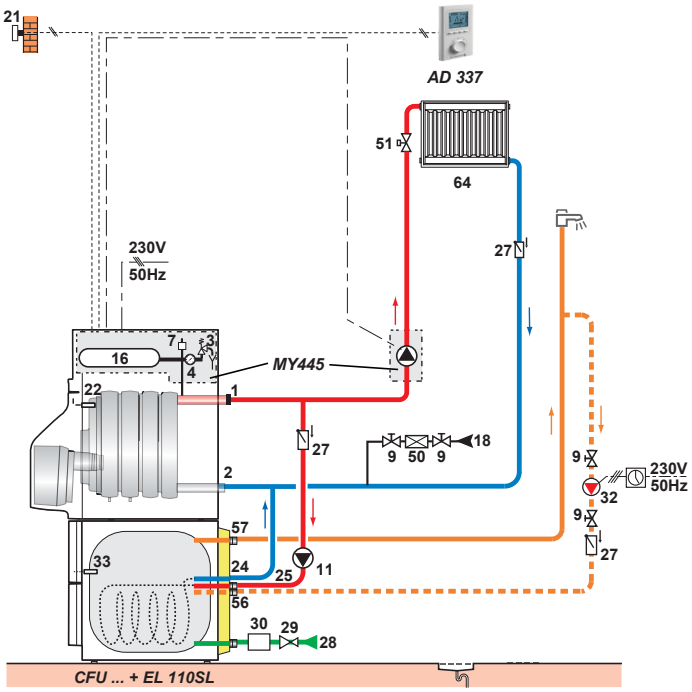
ATTENTION: For the connection of domestic hot water, a sleeve made of steel, cast iron or any other insulating material must be interposed between the hot water outlet and these pipes to prevent any corrosion to the connections, if the distribution pipes are made of copper.

CF/CFU... + EL 110SL

Installation of a boiler CF/CFU... + EL 110SL (fully equipped, with E-Pilot panel) with 1 direct circuit « radiators »

System





CF_F2053

Legend: see page 19

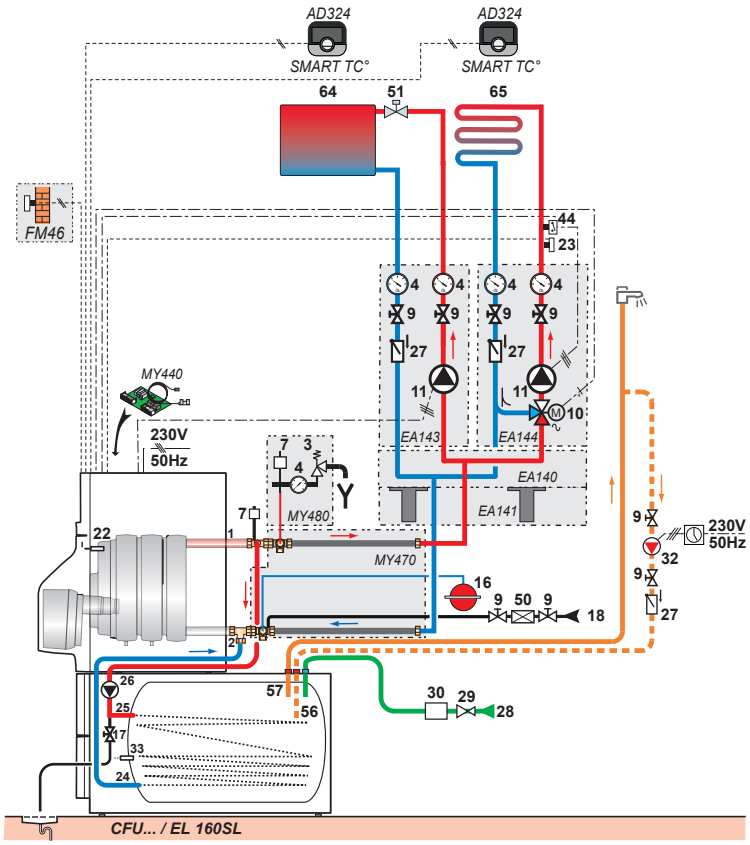
CF/CFU... + EL 160SL

Installation of a boiler CF/CFU... + EL 160SL (fully equipped, with E-Pilot panel) with 1 direct circuit + 1 circuit with mixing valve

System

B

B



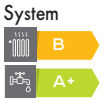
CF_F2054

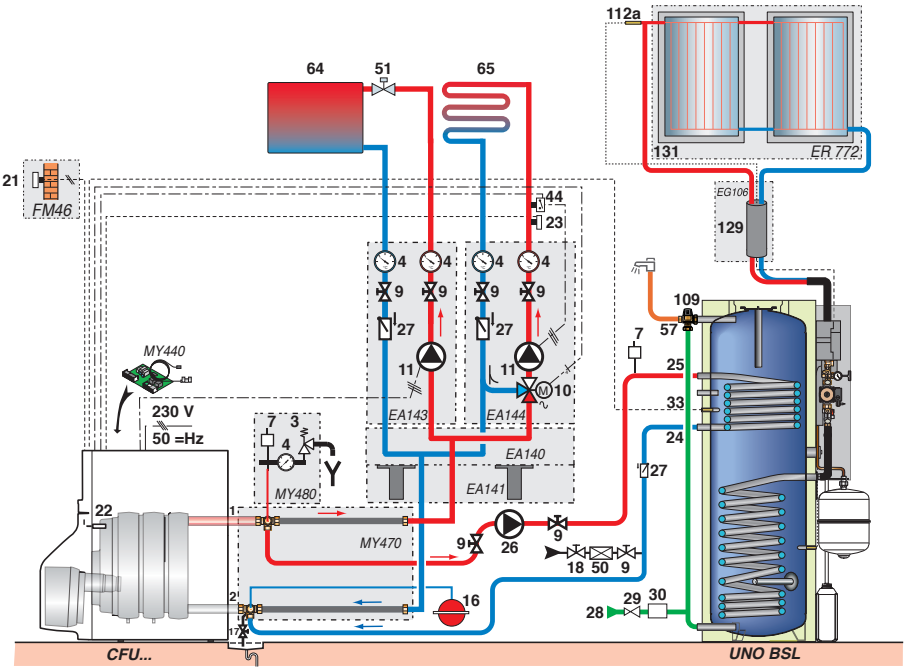
Legend: see page 19

CF/CFU...

installation of a boiler CF/CFU... (fully equipped, with E-pilot panel) with 1 direct circuit « radiators » + 1 underfloor heating circuit with mixing valve + 1 DHW production circuit with solar calorifier INISOL UNO BSL

System





CF_F1056

LEGEND

1 Heating flow
2 Heating return
3 Safety valve 3 bar
4 Manometer
7 Automatic air vent
8 Manual air vent
9 Isolation valve
10 3-way mixing valve
11 Heating pump
13 Flush valve
16 Expansion tank
17 Draining valve (assembled delivery)
18 Filling the heating circuit
21 Outside temperature sensor
22 Boiler sensor
23 Outlet temperature sensor after mixing valve
24 Primary inlet on the DHW tank exchanger
25 Primary outlet on the DHW tank exchanger
26 Domestic water load pump
27 Non-return valve
28 Domestic cold water inlet
29 Pressure reducer
30 Sealed safety device calibrated to 7 bars
32 DHW loop pump (optional)
33 DHW temperature sensor (fitted as standard) with: CF/CFU... + EL 110SL, CF/CFU... + EL 160SL
44 65°C limiter thermostat with manual reset for underfloor heating
50 Disconnector
51 Thermostatic valve
56 DHW circulation loop return
65 Low temperature circuit (underfloor heating, for example)
109 Thermostatic mixing valve
112a Collector sensor
131 Collector field

De Dietrich

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