FUEL OIL

STEEL BOILERS TO BE FITTED WITH A FUEL OIL/GAS BURNER **FOR HEATING ONLY**

PROJECT

N° CE 1312BR4873

OPTIONS: see following pages

CABK

8 to 80 **from 79 to 930 KW**

point

Large choice of control panels

Fuel oil/gas pressurised steel boiler

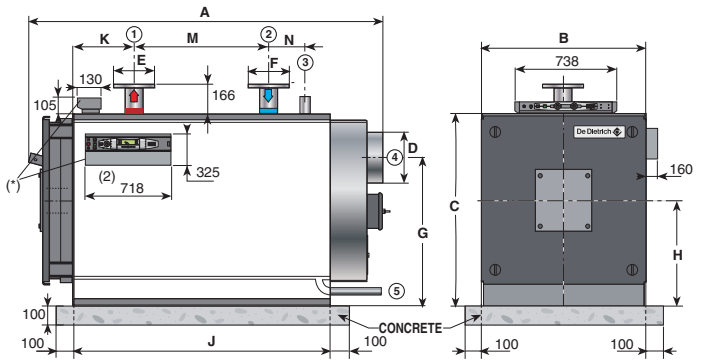
- Single-unit steel heating body, with **2 flue gas pathways** and combustion efficiency up to 92.4%
- Combustion chamber designed for easy adaptation of all air burners, including ones with low NOx emissions.
- Second flue gas pathway in the pipes fitted with baffles for optimised heat transfer and operation with no risk of condensation (min. return temp.: 55°C).
- Efficient insulation in high density glass wool covered with aluminium on the outside.
- Door giving access to the flue gas pipes and burner door with ceramic insulation mounted on reversible hinges.
- Available with different control panels which can be used to control 1 or 2-stage or modulating burners:
  - **S3 standard control panel:** for installations without a control system or with a control cabinet in the boiler room.
  - **B3 control panel:** heating water regulation by electronic thermostat; integrated DHW priority.
  - **DIEMATIC-m3 control panel:** electronic control system to control up to 3 circuits + 1 DHW circuit, depending on the options connected. Combined with a boiler with a specific K3 control panel, this can manage cascade installations of 2 to 10 boilers.
- Fuel oil or gas burner optional
- **Packaging:** 3 packages

MAIN DIMENSIONS (mm and inches)

① Heating flow
② Heating return
③ Safety device connections R 1" 1/2
④ Flue gas nozzle
⑤ Drain tube R 1"

(*) Choice of 4 control panels:
- Standard S3, to be placed on the top of the boiler (top front or top side)
- B3, K3 or DIEMATIC-m3, to be mounted on the side panel of the boiler or placed on the top (side) of the boiler

(2) Lateral control panel: its position on one of the lateral panels is left to the installer's discretion.
R: Threading



CABK-		8	10	12	15	18	20	25	30	35	40	50	60	70	80
A	mm	1370	1520	1520	1550	1550	1760	1760	1995	1995	2070	2070	2070	2350	2350
B	mm	700	720	720	740	740	800	800	850	850	1020	1125	1125	1125	1125
C	mm	815	815	815	890	890	930	930	950	950	1105	1200	1200	1200	1200
D Ø ext.	mm	217	247	247	247	247	247	247	296	296	296	346	346	346	346
E	mm	R 1" 1/2	DN65	DN65	DN65	DN65	DN80	DN80	DN80	DN80	DN80	DN100	DN100	DN100	DN100
F	mm	R 1" 1/2	DN65	DN65	DN65	DN65	DN80	DN80	DN80	DN80	DN80	DN100	DN100	DN100	DN100
G	mm	605	605	605	670	670	725	725	745	745	850	890	890	890	890
H	mm	440	440	440	500	500	512	512	510	510	595	640	640	640	640
J	mm	845	990	990	1030	1030	1210	1210	1460	1460	1487	1487	1487	1725	1725
K	mm	235	260	260	260	260	300	300	312	312	312	312	312	312	312
M	mm	400	510	510	530	530	665	665	850	850	850	850	850	1050	1050
N	mm	120	145	145	180	180	180	180	180	180	180	180	180	215	215

TECHNICAL SPECIFICATIONS

Min. return temperature: **55°C**
Max. operating temperature: **100°C**
Max. operating pressure: **4 bar** (up to **10 bar** on request)
Safety thermostat: **110°C**

MODEL

CABK			8	10	12	15	18	20	25	30	35	40	50	60	70	80
Nominal useful output at Pn		kW	98.7	116	145	175	209	232	290	348	406	465	581	697	813	930
Min. useful output		kW	79	93	116	140	167	186	232	278	325	372	465	558	650	774
Efficiency at 100% Pn and average temp. 70°C		% Pci	90.2	90.2	90.3	90.3	90.4	90.45	90.5	90.7	91	91.4	91.8	92.2	92.4	92.4
Stand-by losses at ΔT = 30 K		W	755	887	1108	1336	1595	1770	2210	2647	3078	3510	4367	5216	6071	6944
Water content		l	105	120	120	186	186	250	250	320	320	565	635	635	690	690
Water flow at ΔT = 20 K		m^3/h	4.25	5.0	6.25	7.5	9.0	10.0	12.5	15.0	17.5	20.0	25.0	30.0	35.0	40.0
Water resistance at ΔT = 20 K		mbar	5.1	6.4	7.8	9.1	10.5	11.8	14.5	15.9	24.4	32.9	41.4	58.4	67	80
Flue gas circuit volume		l	135.2	159.4	159.4	204.5	204.5	298.7	298.7	396.3	396.3	555.2	598.4	598.4	741.8	741.8
Flue gas volume flow rate		m^3/h	196	232	290	349	416	461	576	691	803	916	1139	1361	1584	1811
Flue gas mass flow rate	- oil	kg/s	0.045	0.053	0.066	0.080	0.095	0.106	0.132	0.158	0.185	0.212	0.264	0.291	0.370	0.423
	- gas	kg/s	0.045	0.053	0.066	0.080	0.095	0.106	0.133	0.160	0.186	0.213	0.267	0.293	0.373	0.427
Combustion chamber pressure		mbar	0.9	1.1	1.3	1.5	1.7	1.7	2.1	2.7	3	3.2	3.7	3.9	4	4.5
Length of the combustion chamber		mm	800	945	945	990	990	1197	1197	1344	1344	1405	1429	1429	1642	1642
Ø of the combustion chamber		mm	390	390	390	440	440	488	488	533	533	628	648	648	642	642
Volume of the combustion chamber		m^3	0.086	0.102	0.102	0.135	0.135	0.201	0.201	0.270	0.270	0.391	0.424	0.424	0.478	0.478
Flue gas temperature at 80°/60° C	- min.	°C	190	190	190	190	190	190	190	190	190	170	170	170	170	170
	- max	°C	210	210	210	210	210	210	210	210	210	190	190	190	190	190
Net weight		kg	298	380	380	433	433	520	520	665	665	945	1087	1087	1339	1339

Measurement conditions: boiler flow/return temperature: 80/55°C, Fuel oil CO_2 = 13%; Gas CO_2 = 10%

MODEL

CABK		8	10	12	15	18	20	25	30	35	40	50	60	70	80
CABK… S3	Ref.	7607703	7607704	7607705	7607717	7607738	7607739	7607754	7607755	7607756	7607757	7607758	7607759	7607760	7607761
CABK… B3	Ref.	7607766	7607767	7607768	7607769	7607770	7607771	7607772	7607773	7607774	7607775	7607776	7607777	7607779	7607780
CABK… K3	Ref.	7607781	7607783	7607784	7607785	7607786	7607787	7607788	7607789	7607790	7607791	7607792	7607793	7607794	7607795
CABK… DIEMATIC-m 3	Ref.	7607816	7607817	7607818	7607819	7607820	7607821	7607822	7607823	7607825	7607826	7607827	7607828	7607829	7607830

FUEL OIL

STEEL BOILERS TO BE FITTED WITH A FUEL OIL/GAS BURNER **FOR HEATING ONLY**

PROJECT

N° CE 1312BS4965

OPTIONS: see following pages

CABK Plus

100 to 250 **from 968 to 2900 KW**

point

Large choice of control panels

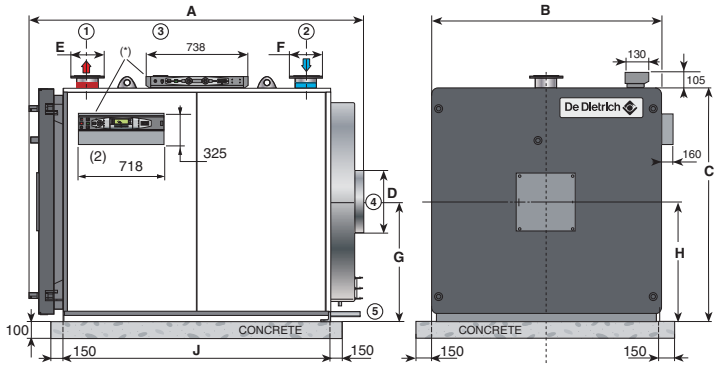
Fuel oil/gas pressurised steel boiler
- Single-unit steel heating body, with 2 flue gas pathways and combustion efficiency > 90% at 80/60°C
- Combustion chamber designed for easy adaptation of all blown air burners, including ones with low NOx emissions.
- Second flue gas pathway in the pipes shaped in variable sections and geometries, thus optimising heat transfer and operation with no risk of condensation (min. return temp.: 55°C).
- Efficient insulation in high density glass wool covered with aluminium on the outside.
- Lifting rings in the top section used for handling for easy positioning
- Door giving access to the flue gas pipes and burner door with ceramic insulation mounted on adjustable reversible hinges.
- Top cover with textured surface taking on the role of walkway on the boiler
- Available with different control panels which can be used to control 1 or 2-stage or modulating burners:
  - **S3 standard control panel:** for installations without a control system or with a control cabinet in the boiler room.
  - **B3 control panel:** heating water regulation by electronic thermostat; integrated DHW priority.
  - **DIEMATIC-m3 control panel:** electronic control system to control up to 3 circuits + 1 DHW circuit, depending on the options connected. Combined with a boiler with a specific K3 control panel, this can manage cascade installations of 2 to 10 boilers.
- Fuel oil or gas burner optional
- **Packaging:** 3 packages

MAIN DIMENSIONS (mm and inches)

① Heating flow
② Heating return
③ Safety device connections DN 40
④ Flue gas nozzle
⑤ Drain tube R 1" 1/2

(*) Choice of 4 control panels:
- Standard S3, to be placed on the top (side) of the boiler
- B3, K3 or DIEMATIC-m3, to be mounted on the side panel of the boiler or placed on the top (side) of the boiler

(2) Lateral control panel: its position on one of the lateral panels is left to the installer's discretion.
R: Threading



CABK PLUS		100	130	160	200	250
A	mm	2380	2760	2760	2980	3425
B	mm	1450	1750	1750	1900	2400
C	mm	1466	1800	1800	1970	2350
D Ø ext.	mm	500	550	550	600	650
E	mm	DN125	DN125	DN125	DN150	DN200
F	mm	DN125	DN125	DN125	DN150	DN200
G	mm	766	925	925	1020	1225
H	mm	766	925	925	1020	1225
J	mm	1804	2330	2330	2400	2739

TECHNICAL SPECIFICATIONS

Min. return temperature: **55°C**
Max. operating temperature: **100°C**
Max. operating pressure: **5 bar***
Safety thermostat: **110°C**
* On request:
- CABK PLUS 100-130-160: up to 10 bar
- CABK PLUS 200: up to 9 bar
- CABK PLUS 250: up to 6 bar

MODEL

		CABK	100	130	160	200	250
Nominal useful output at Pn		kW	1210	1540	1815	2310	2900
Min. useful output		kW	968	1232	1452	1846	2320
Efficiency at 100% Pn and average temp. 70°C		% Pci	90.6	90.6	90.6	90.6	90.6
Stand-by losses at ΔT = 30 K		W	9215	11728	13823	17593	22086
Water content		l	1327	2281	2377	3047	4700
Water flow at ΔT = 20 K		m³/h	52.1	66.4	78.2	99.6	125.0
Water resistance at ΔT = 20 K		mbar	85	92	95	102	110
Flue gas circuit volume		l	1085	1746	1844	2448	4697
Flue gas volume flow rate		m³/h	1515	1929	2271	2907	3444
Flue gas mass flow rate	- oil	kg/s	0.501	0.637	0.751	0.960	1.138
	- gas	kg/s	0.505	0.643	0.757	0.969	1.148
Combustion chamber pressure		mbar	5.0	5.5	6.1	6.1	6.1
Length of the combustion chamber		mm	1690	2030	2030	2242	2590
Ø of the combustion chamber		mm	780	930	930	1030	1405
Volume of the combustion chamber		m³	0.726	1.240	1.240	1.680	3.612
Flue gas temperature at 80°/60° C	- min.	°C	190	190	190	190	190
	- max	°C	220	220	220	220	220
Net weight		kg	2500	2900	3250	4000	5500

Measurement conditions: boiler flow/return temperature: 80/55°C, Fuel oil CO_2 = 13%; Gas CO_2 = 10%

MODEL

	CABK	100	130	160	200	250
CABK PLUS… S3	Ref.	7607831	760782	7607833	7607834	7607835
CABK PLUS… B3	Ref.	7607837	7607838	7607839	7607840	7607841
CABK PLUS… K3	Ref.	7607842	7607843	7607844	7607845	7607846
CABK PLUS… DIEMATIC-m 3	Ref.	7607847	7607849	7607851	7607852	7607853

OPTIONS
FOR CABK AND CABK PLUS

ALL OPTIONS EXCEPT CONTROL UNITS OPTIONS

BURNERS FOR CABK

	PACKAGE	REF
Fuel oil burners:		
• M 200 S, M 300 S, M 40 S		see chapter 15
• M 50 S		see chapter 15
Gas pressure jet burners:		
• G 200 N, G 300 N, G 40 S, G 50 S		see chapter 15
Relay box for burners with power ≥ 450 W or start up intensity ≥ 16 A	BP51	82197781

Burner recommendations per boiler type: see Technical leaflet

BURNERS FOR CABK PLUS

	PACKAGE	REF
Fuel oil burner M 50 S		see chapter 15
Gas pressure jet burner G 50 S		see chapter 15
Relay box for burners with power ≥ 450 W or start up intensity ≥ 16 A	BP51	82197781

Burner recommendations per boiler type: see Technical leaflet

DHW PRODUCTION

	PACKAGE	REF
With independent calorifier		see chapter 11
DHW sensor	AD212	100000030

CONTROL UNITS OPTIONS

CHOICE OF OPTIONS ACCORDING TO THE CONTROL PANEL TYPE AND THE CONNECTED CIRCUITS

			Boiler self-standing or boiler 1 of a cascade							Boiler 2 to 10 of a cascade by additional boiler (2)		
Circuit type			DHW	direct	valve	direct + 1 valve	2 x valve	1 x direct + 2 x valve	3 x valve	1 x valve	2 x valve	3 x valve
Control panel	Standard S3	CABK S3 CABK PLUS S3	for installations without control unit or for those with a boiler room control cabinet									
	B3	CABK B3 CABK PLUS B3	AD212	as standard	no	no	no	no	no	-	-	-
	Diematic-m3 (1)	CABK DIEMATIC-m 3 CABK PLUS DIEMATIC-m 3	AD212	as standard	AD199	FM48	1 x AD199 + 1 x FM48	2 x FM48	1 x AD199 + 2 x FM48	-	-	-
	K3 (1)	CABK K3 CABK PLUS K3	-	-	-	-	-	-	-	1 x AD220	1 x AD220 + 1 x FM48	1 x AD220 + 2 x FM48

(1) Each of the circuits "**heating**" can be completed in choice by a interactive remote control AD285, AD284 + AD252 or FM52
(2) Do not forget to order the cascade outlet sensor: package AD212 or AD218 and the boiler sensors in case of modulating cascade package AD212

CONTROL UNITS OPTIONS

	PACKAGE	REF
• for standard S3 panel		
Flue gas thermometer	BP28	82197729
• for B3 control panel		
Flue gas thermometer	BP28	82197729
Time counter (1 piece)	BG40	82187730
Room thermostat:		
• non programmable	AD140	88017859
• programmable (wire)	AD137	88017855
• programmable (wireless)	AD200	88017018
DHW sensor	AD212	100000030
• for K3 control panel		
Relay PCB + sensors for 1 circuit with valve	AD220	100004970
PCB + sensor for 1 circuit with mixing valve	FM48	85757743
Interactive remote control CDI D. iSystem	AD285	100018924
Interactive remote radio control CDR D. iSystem (without radio transmitter)	AD284	100018923
Simplified remote control with room sensor	FM52	85757747
Room sensor	AD244	100012044
Flue gas temperature sensor	FM47	85757742
Boiler radio module	AD252	100013307

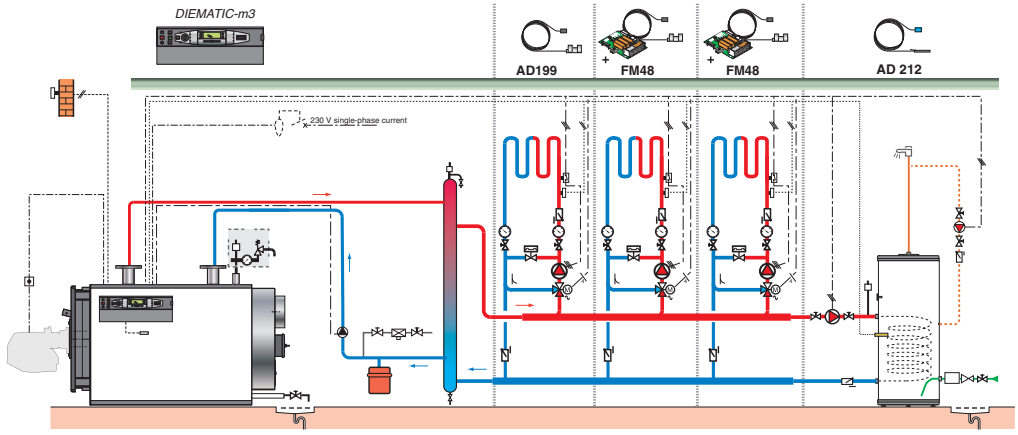
CONTROL UNITS OPTIONS

	PACKAGE	REF
• for DIEMATIC-m 3 control panel		
PCB + sensor for 1 circuit with mixing valve	FM48	85757743
Flow sensor downstream of the valve	AD199	88017017
Interactive remote control CDI D. iSystem	AD285	100018924
Interactive remote radio control CDR D. iSystem (without radio transmitter)	AD284	100018923
Radio outside temperature sensor	AD251	100013306
Boiler radio module (radio transmitter)	AD252	100013307
Simplified remote control with room sensor	FM52	85757747
Room sensor	AD244	100012044
BUS cable connection 12 m	AD134	88017851
Connecting cable length 40 m for wall brack.	DB119	81997720
Bus cable extension	AD139	88017858
Flue gas temperature sensor	FM47	85757742
Boiler sensor, cascade outlet sensor or DHW sensor	AD212	100000030
Dip sensor + sensor tube (replacing the attachment sensor)	AD218	100004781
Sensors for storage tank	AD160	88017887

EXAMPLES OF INSTALLATION

FOR CABK AND CABK PLUS

CABK DIEMATIC-m 3
(or CABK PLUS DIEMATIC-m 3)



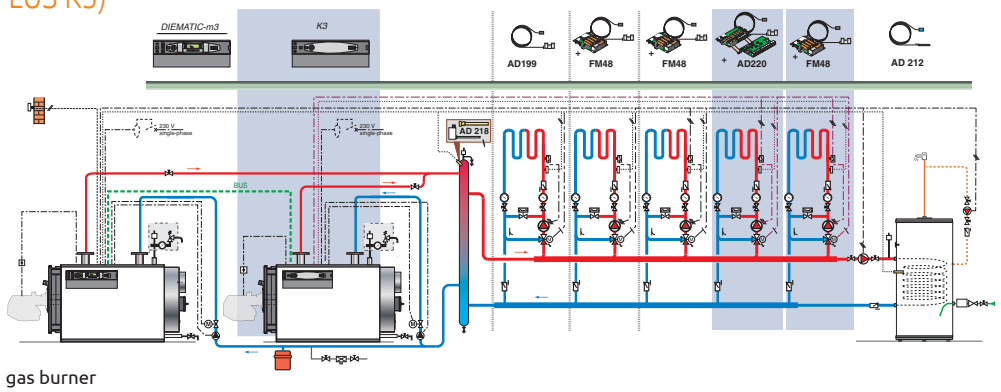
CABK_F0012

- Gas burner
- Independent DHW calorifier B.
- 3 underfloor heating circuits (with mixing valve)

DESCRIPTION

	PACKAGE	REF
CABK 8 DIEMATIC-m 3	-	7607816
Modulating gas burner G 303-2N	G 303-2N	100004507
2 x PCB + sensor with mixing valve	2 x FM48	2 x 85757743
Flow sensor downstream of the valve	AD199	88017017
Independent DHW calorifier BLC 500	EC608	100018092
DHW sensor	AD212	100000030

CABK DIEMATIC-m 3 + CABK K3
(or CABK PLUS DIEMATIC-m 3
+ CABK PLUS K3)



CABK_F0013

- Modulating gas burner
- Independent DHW calorifier B
- 5 underfloor heating circuits (with mixing valve)

DESCRIPTION

	PACKAGE	REF
CABK 20 DIEMATIC-m 3	-	7607821
CABK 20 K3	-	7607787
2 x modulating gas burner G 303-5N	2 x G 303-5N	2 x 100004509
Cascade flow sensor	AD218	100004781
3 x PCB + sensor for mixing valve	3 x FM48	3 x 85757743
Flow sensor downstream of the valve	AD199	88017017
Relay PCB + sensors for 1 circuit with mixing valve	AD220	100004970
Tank B1000	AJ80	7650482
Rigid casing HR	AJ97	7650499
DHW sensor	AD212	100000030

FUEL OIL

STEEL BOILER TO BE FITTED WITH FUEL OIL/GAS BURNER **FOR HEATING ONLY**

PROJECT

CA 430

from 349 to 698 kW

Fuel oil/gas steel boiler

- **Gas circuit with 3 paths flue way**
- Burner door on reversible hinge
- Reinforced insulation
- **Choice of 4 control panels** with DHW priority function (except standard control panel)
  - **Standard**: for managing a 1-stage or 2-stage burner, control cabinet in the boiler room
  - **B3**: for managing a 1-stage or 2-stage burner, operation by boiler thermostat
  - **DIEMATIC-m 3**: with electronic programmable controller according to the outside temperature, for managing a 1-stage, 2-stage or modulating burner, can control up to 10 boilers in cascade
  - **K3**: only operating in association with DIEMATIC-m 3 to control the "secondary" boilers
- Fuel oil or gas burner optional
- **Packaging:** 4 or 5 packages depending on model

N° CE 0461BP0788

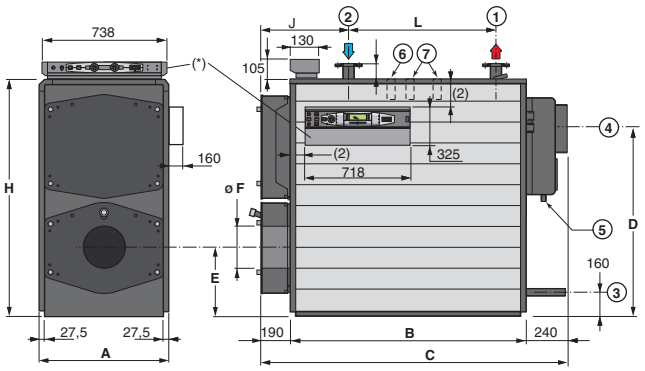
OPTIONS: see following pages

MAIN DIMENSIONS (mm and inches)

① Heating flow
② Heating return
③ Boiler drain Rp 1" 1/4
④ Flue gas nozzle Ø 250 mm
⑤ Condensates discharges outside Rp 1/2"
⑥ Connection for safety unit
⑦ Connection for safety valve (2 safety valves for CA 430-500 and CA 430-600))

(*) 4 control panels to choose from:
- Standard, to be put on the boiler
- B3, K3 or DIEMATIC-m 3, to be mounted on the lateral casing panel of the boiler

(2) Lateral control panel: its position on 1 of the lateral casing panels is left to the fitter's discretion.



	A	B	C	D	E	Ø F	H	J	L	①②	⑥⑦
CA 430-200	755	1412	1842	1082	410	160	1345	550	900	65	1"
CA 430-250	755	1412	1842	1082	410	160	1345	550	900	65	1"
CA 430-300	800	1462	1892	1210	460	225	1500	600	900	80	1"1/4
CA 430-350	800	1462	1892	1210	460	225	1500	600	900	80	1"1/4
CA 430-400	875	1744	2174	1340	495	225	1630	650	1075	80	1"1/4
CA 430-500	945	1744	2174	1422	520	225	1750	650	1075	100	1"1/4
CA 430-600	945	1744	2174	1422	520	225	1750	650	1075	100	1"1/4

TECHNICAL SPECIFICATIONS

Max. operating temperature: **90°C**
Min. operating temperature: **50°C**
Max. operating pressure: **6 bar** (up to **10 bar** on request)
Thermostat: **50 to 85°C adjustable**
Safety thermostat: **110°C**

MODEL

		CA 430-	200*	250*	300*	350	400	500	600
Useful output		kW	233	291	349	407	465	581	698
Efficiency at % PCI output …%	- 100 % Pn at average temp. 70°C	%	92.8	92.7	93.1	92.7	93.0	92.5	92.5
an…°C water temp.	- 30 % Pn at return temp. 30°C	%	95.4	95.1	95.6	95.1	95.4	95.0	95.0
Stand-by losses at ΔT = 30 K		W	1000	1250	1500	1750	2000	2500	3000
Auxiliary electrical power (without circul. pump) at Pn									
with DIEMATIC-m 3 control panel		W	6	6	6	6	6	6	6
Auxiliary electrical power in stand-by mode		W	6	6	6	6	6	6	6
Useful output range		kW	190-233	233-291	291-349	349-407	407-465	465-581	581-698
Water content		l	412	412	505	505	738	863	863
Combustion chamber pressure		mbar	2	3.5	3.1	3.1	3.7	3.9	4.5
Floor area		m²	1.27	1.27	1.49	1.49	1.88	2.03	2.03
Net weight		kg	715	715	805	805	1065	1325	1325

MODEL

	CA 430-	200*	250*	300*	350	400	500	600
CA430	Ref.	100008330	100008331	100008332	100008333	100008334	100008335	100008336
CA430 B3	Ref.	100008337	100008338	100008339	100008340	100008341	100008342	100008343
CA430 K3 (1)	Ref.	100008496	100008497	100008498	100008499	100008540	100008541	100008542
CA430 DIEMATIC-m 3	Ref.	100008543	100008544	100008545	100008546	100008547	100008548	100008549
Extended warranty 5 to 10 years					contact us			

(1) CA 430 K3 is only operating in association with CA 430 DIEMATIC-m 3
*Boilers for replacing identical products.

FUEL OIL

STEEL BOILER TO BE FITTED WITH FUEL OIL/GAS BURNER **FOR HEATING ONLY**

PROJECT

CA 530

from 700 to 2 600 kW

Fuel oil/gas steel boiler

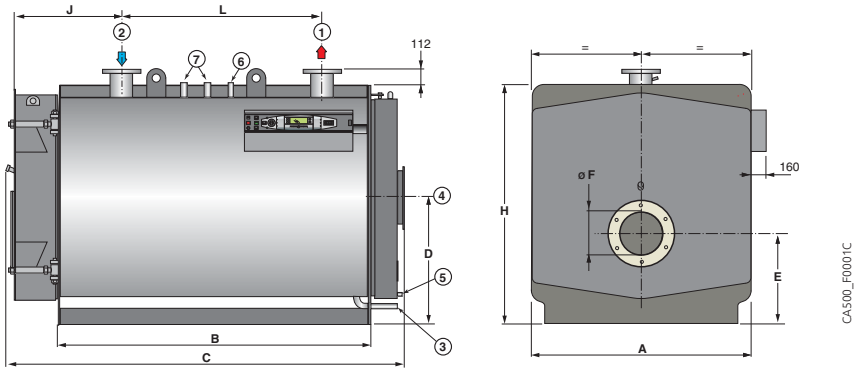
- **Gas circuit with 3 paths flue way**
- Burner door on reversible hinge
- Reinforced insulation
- **Choice of 4 control panels** with DHW priority function (except standard control panel)
  - **Standard**: for managing a 1-stage or 2-stage burner, control cabinet in the boiler room
  - **B3**: for managing a 1-stage or 2-stage burner, operation by boiler thermostat
  - **DIEMATIC-m 3**: with electronic programmable controller according to the outside temperature, for managing a 1-stage, 2-stage or modulating burner, can manage up to 10 boilers in cascade
  - **K3**: only operating in association with DIEMATIC-m 3 to control the "secondary" boilers
- Fuel oil or gas burner optional
- **Packaging:** 2 or 3 packages depending on model

N° CE 0461BP0788

OPTIONS: see following pages

MAIN DIMENSIONS (mm and inches)

① Heating flow
② Heating return
③ Boiler drain Rp 1" 1/4
④ Flue gas nozzles
⑤ Condensates discharges outside Rp 1/2"
⑥ Connection for safety unit Rp 1"
⑦ Connection for safety valve Rp 1" 1/2



	A	B	C	D	E	Ø F	H	J	L	④	①②
CA 530-800	1380	1970	2500	895	682	280	1600	688	1300	350	100
CA 530-900	1380	1970	2500	895	682	280	1600	688	1300	350	100
CA 530-1000	1490	1972	2585	890	671	320	1650	740	1300	400	125
CA 530-1200	1490	1972	2585	890	671	320	1650	740	1300	400	125
CA 530-1400	1490	2282	2898	890	671	320	1650	790	1550	400	150
CA 530-1700	1640	2324	2936	960	722	360	1790	790	1500	400	150
CA 530-2000	1640	2824	3430	960	722	360	1790	790	2000	400	150
CA 530-2600	1640	3270	3880	960	722	360	1790	810	2460	500	200

TECHNICAL SPECIFICATIONS

Max. operating temperature: **90°C**
Min. operating temperature: **50°C**
Max. operating pressure: **6 bar** (up to **10 bar** on request)
Thermostat: **50 to 85°C adjustable**
Safety thermostat: **110°C**

MODEL

		CA 530-	800	900	1000	1200	1400	1700	2000	2600
Useful output		kW	800	900	1000	1200	1400	1700	2000	2600
Efficiency at % PCI output …%	- 100 % Pn at average temp. 70°C)	%	92	92	92	92	92	92	92	92
an…°C water temp.	- 30 % Pn at return temp. 30°C	%	94.5	94.5	94.5	95.1	95.1	95.1	95.1	95.2
Stand-by losses at ΔT = 30 K		W	3440	3870	4300	5160	6020	7310	8600	7800
Auxiliary electrical power (without circul. pump) at Pn										
with DIEMATIC-m3 control panel		W	6	6	6	6	6	6	6	6
Auxiliary electrical power in stand-by mode		W	6	6	6	6	6	6	6	6
Useful output range		kW	700-800	800-900	900-1000	1000-1200	1200-1400	1400-1700	1700-2000	2000-2600
Water content		l	1200	1200	1365	1365	1570	1880	2340	2754
Combustion chamber pressure		mbar	2.2	2.8	2.1	3.2	4.4	5	7	10
Floor area		m^2	3.45	3.45	3.85	3.85	4.31	4.82	5.63	6.46
Net weight		kg	1970	1970	2760	2760	2995	3700	4330	5050

MODEL

	CA 530-	800	900	1000	1200	1400	1700	2000	2600
CA530	Ref.	100008551	100008552	100008553	100008554	100008555	100008556	100008557	100011083
CA530 B3	Ref.	100008559	100008560	100008561	100008562	100008563	100008564	100008565	100011084
CA530 K3 (1)	Ref.	100008566	100008567	100008568	100008569	100008570	100008571	100008572	100011085
CA530 DIEMATIC-m 3	Ref.	100008573	100008574	100008576	100008577	100008578	100008579	100008580	100011086
Extended warranty 5 to 10 years						contact us			

(1) CA 530 K3 is only operating in association with CA 430 DIEMATIC-m 3

OPTIONS
FOR CA 430 AND CA 530

ALL OPTIONS EXCEPT CONTROL UNITS OPTIONS

ACCESSORIES

	PACKAGE	REF
Dip sensor with sensor tube	AD218	100004781
Counter flange for CA 430 Ø 65 mm	-	300004608*
Counter flange for CA 430 Ø 80 mm	-	300004609*
Counter flange for CA 430 Ø 100 mm	-	300004610*
Counter flange for CA 530 Ø 100 mm	-	300004611*
Counter flange for CA 530 Ø 125 mm	-	300004612*
Counter flange for CA 530 Ø 150 mm	-	300004613*
Relay box for burners with power ≥ 450 W or start up intensity ≥ 16 A	BP51	82197781

* to be ordered at the spare parts department

DHW PRODUCTION

	PACKAGE	REF
• with independent calorifier		see chapter 11
DHW temperature sensor	AD212	100000030

AD218

8801Q018

BP51

8801Q019

Counter flange

CA400_F0013

CONTROL UNITS OPTIONS

CHOICE OF OPTIONS ACCORDING TO THE CONNECTED CIRCUITS

			Boiler self-standing or boiler 1 of a cascade							Boiler 2 to 10 of a cascade by additional boiler (2)		
Circuit type			DHW	direct	valve	direct + 1 valve	2 x valve	1 x direct + 2 x valve	3 x valve	1 x valve	2 x valve	3 x valve
Control panel	Standard S3	CA 430 / CA 530	pour les installations sans régulation ou pour celles avec armoire de commande en chaufferie									
	B3	CA 430 B3 / CA 530 B3	AD212	as standard	no	no	no	no	no	-	-	-
	Diematic-m3 (1)	CA 430 Diematic-m3 / CA 530 Diematic-m3	AD212	as standard	AD199	FM48	1 x AD199 + 1 x FM48	2 x FM48	1 x AD199 + 2 x FM48	-	-	-
	K3 (1)	CA 430 K3 / CA 530 K3	-	-	-	-	-	-	-	1 x AD220	1 x AD220 + 1 x FM48	1 x AD220 + 2 x FM48

(1) Each of the circuits "**heating**" can be completed in choice by a interactive remote control AD285, AD284 + AD252 or FM52
(2) Do not forget to order the cascade outlet sensor: package AD212 or AD218 and the boiler sensors in case of modulating cascade package AD212

CONTROL UNITS OPTIONS

	PACKAGE	REF
• for standard panel		
Flue gas thermometer	BP28	82197729
• for B3 control panel		
Flue gas thermometer	BP28	82197729
Time counter (1 piece)	BG40	82187730
Room thermostat		
• non programmable	AD140	88017859
• programmable (wire)	AD137	88017855
• programmable (wireless)	AD200	88017018
DHW sensor	AD212	100000030
• for K3 control panel		
Relay PCB + sensors for 1 circuit with valve	AD220	100004970
PCB + sensor for 1 circuit with mixing valve	FM48	85757743
Interactive remote control CDI D. iSystem	AD285	100018924
Interactive remote radio control CDR D. iSystem (without radio transmitter)	AD284	100018923
Simplified remote control with room sensor	FM52	85757747
Room sensor	AD244	100012044
Flue gas temperature sensor	FM47	85757742
Boiler radio module	AD252	100013307

CONTROL UNITS OPTIONS

	PACKAGE	REF
• for standard panel		
Flue gas thermometer	BP28	82197729
for B3 control panel		
Flue gas thermometer	BP28	82197729
Time counter (1 piece)	BG40	82187730
Room thermostat		
• non programmable	AD140	88017859
• programmable (wire)	AD137	88017855
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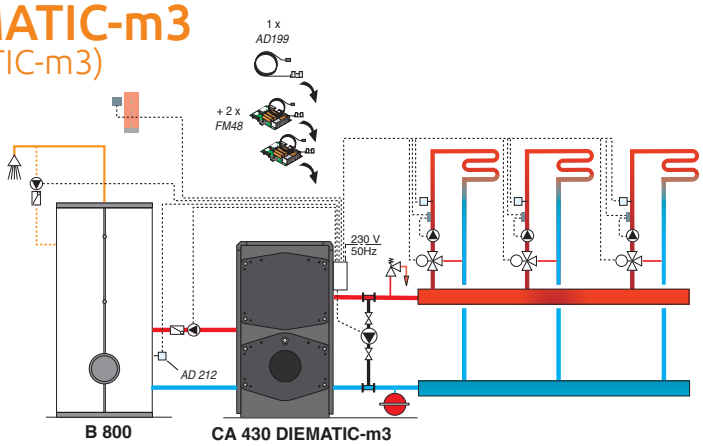
DHW sensor	AD212	100000030
for K3 control panel		
Relay PCB + sensors for 1 circuit with valve	AD220	100004970
PCB + sensor for 1 circuit with mixing valve	FM48	85757743
Interactive remote control CDI D. iSystem	AD285	100018924
Interactive remote radio control CDR D. iSystem (without radio transmitter)	AD284	100018923
Simplified remote control with room sensor	FM52	85757747
Room sensor	AD244	100012044
Flue gas temperature sensor	FM47	85757742
Boiler radio module	AD252	100013307

EXAMPLES OF INSTALLATION

FOR CA 430 AND CA 530

CA 430 DIEMATIC-m3
(or CA 530 DIEMATIC-m3)



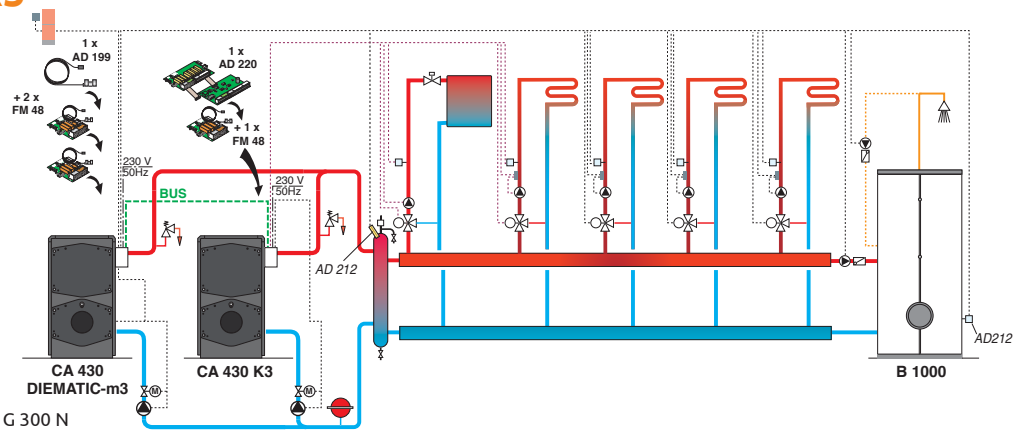
CA430_F0001A

- Gas burner G 300 S
- Independent DHW calorifier B.
- 3 underfloor heating circuits (with mixing valve)

DESCRIPTION

	PACKAGE	REF
CA430-200 DIEMATIC-m 3	-	100008543
Modulating gas burner G 303-5N	-	100004509
2 x PCB + sensor with mixing valve	2 x FM48	2 x 85757743
Outlet sensor downstream of the valve	AD199	88017017
Calorifier B 800 (tank)	AJ79	7650481
Rigid casing for B 800	AJ95	7650497
DHW sensor	AD212	100000030

CA 430 and DIEMATIC -m3 + CA 430 K3



CA430_F0002B

- Modulating gas burner G 300 N
- Independent DHW calorifier B.
- 5 underfloor heating circuits

DESCRIPTION

	PACKAGE	REF
CA430-200 DIEMATIC-m 3	-	100008543
CA430-200 K3	-	100008496
2 x modulating gas burner G 303-5 N	-	2 x 100004509
Cascade outlet sensor	AD212	100000030
3 x PCB + sensor for mixing valve	3 X FM48	3 x 85757743
Outlet sensor downstream of the valve	AD199	88017017
Relay PCB + sensors for 1 circuit with mixing valve	AD220	100004970
Calorifier B 1000 (tank)	AJ80	7650482
Rigid casing for B 1000	AJ97	7650499
DHW sensor	AD212	100000030