

ERP



Quadrifoglio B

Steel condensing module for cascading systems


ferrol

> DESIGNED WITH EXPERIENCE, METICULOUSLY MANUFACTURED



The **QUADRIFOGLIO B** series heat generators are the synthesis of the Ferroli Group's decennial long experience in the steel boiler business, and its know-how acquired in condensing heating system technology.

The technical features underlying the design of the **QUADRIFOGLIO B** allow designers to select from a wide range of system solutions, choosing either one single boiler or a series of appliances operating in a cascade. **QUADRIFOGLIO B** reaches a **very high efficiency** in heating, i.e. η_s **94%**, among the highest efficiency figures in the market. The simple combination with the outdoor probe and the Romeo remote control results in a product package marked with A+ energy class in heating.

> RANGE

The generators are fit for **internal installation**. A shell **kit** is available on demand for **external** installation up to -5°C (IP protection X4D)

model 70

65,5 KW HEAT INPUT

model 125

116 KW HEAT INPUT

model 220

207 KW HEAT INPUT

model 320

299 KW HEAT INPUT



Ferroli boiler

Romeo

Outdoor
probe

A+ energy label
for the heating package

> PRODUCT IN PILLS



Suitable only for **indoor** operation (**outdoor** positioning with special **kit**)



Remote control (ROMEO) for setting boiler parameters



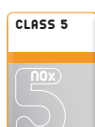
Patented exchanger in **AISI 316 Ti stainless steel**



Electronics features built-in **master-slave cascade** operation, without additional controllers



Possible connection to an optional outdoor probe, thus enabling **system flow temperature compensation**



Appliance rated as **class 5**, the most **ecological** rating defined the relevant European standards (EN 297 and 483)



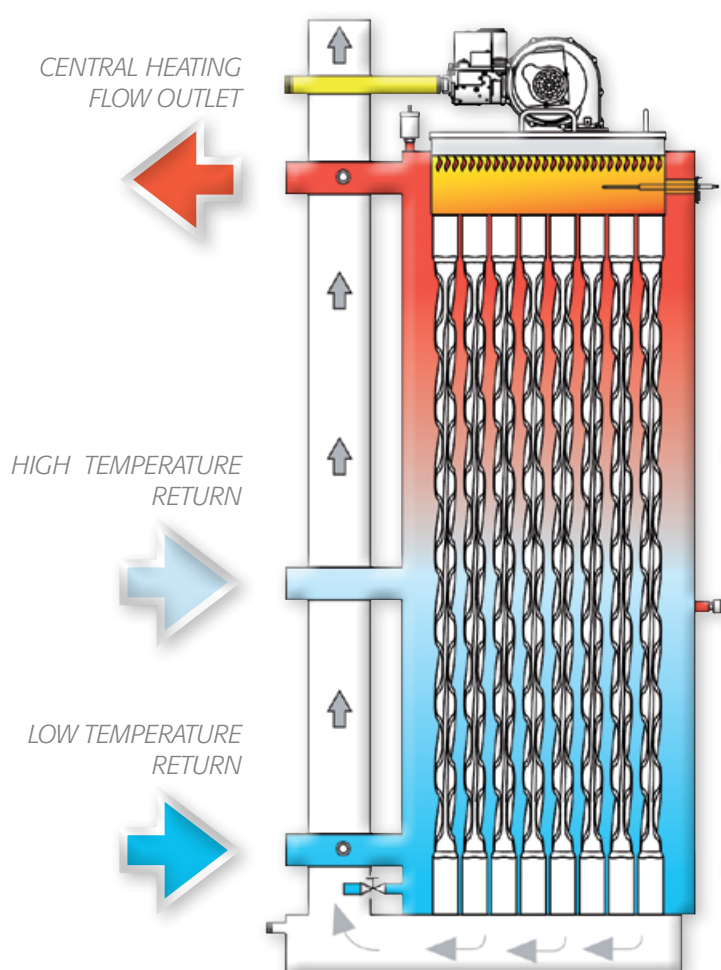
"Range rated" certified appliance, according to EN 483



94% as seasonal efficiency in heating (η_s) according to Reg. 811/2013

> THE IDEAL SOLUTION FOR EVERY SYSTEM

The boiler's high water content and its vertical layout mean that the QUADRIFOGLIO B series have very low pressure drop even at high flow-rates, allowing the boiler to work at practically any ΔT between outlet and return - up to a maximum of 60°C when the flow-rate is near zero. All this ensures considerable installation flexibility, freeing system designers from the limits imposed by the type of boiler. Moreover, the appliances can be connected directly to the system without needing low-loss headers, even in multi-zone systems where variations in flow-rate and Δt between boiler outlet and return are often considerable. These characteristics make this model especially suitable in the following situations:



WATER CONTENT

MODEL 70	MODEL 125	MODEL 220	MODEL 320
160 litres	265 litres	380 litres	530 litres

1

> SYSTEMS WITH MULTI-ZONE DISTRIBUTION CIRCUITS WITH DIFFERENT OPERATING TEMPERATURES

QUADRIFOGLIO B is fitted with a second return attachment for connection to systems operating at high temperatures (e.g. return from DHW storage) that, being located around half-way up the heat exchanger, avoids raising the average return temperature of the low temperature circuit, while guaranteeing maximum appliance efficiency.

2

> SYSTEMS WITH HIGH WATER FLOW-RATES AND SYSTEMS WITH MODULATING CIRCULATION

The physical characteristics of the boiler make it ideal for systems with high water flow-rates, operating simultaneously in multiple "zones". The possibility to work across a practically unlimited range of Δt means the boiler can easily operate in combination with low power, variable-speed circulation systems, bringing advantages in terms of building energy efficiency calculation.

3

> RENOVATION OF EXISTING SYSTEMS

Being a boiler that can be integrated into any type of heat distribution system obviously allows designers much more freedom. Furthermore, the appliance works perfectly with plate heat exchangers (that feature very high pressure drop) fitted between the boiler and the system, to prevent slime from ending up in the boiler and affecting correct operation.

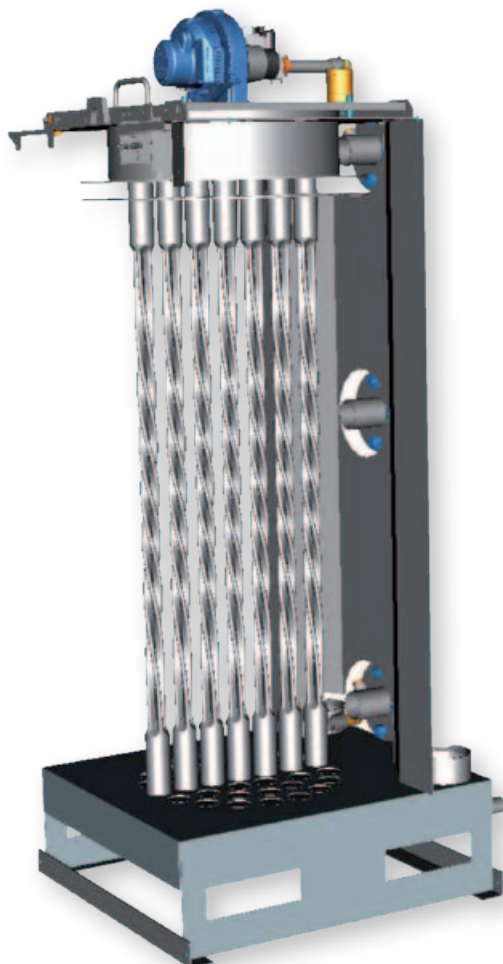
4

> REPLACEMENT OF EXISTING HEAT GENERATORS

The fact that the QUADRIFOGLIO B is "independent" of the type of system makes it the best solution in terms of performance and technical specifications when replacing old heat generators. Four-star certification guarantees higher overall system efficiency and a consequent reduction in energy consumption.

> CHARACTERISTICS

THE HEART OF THE QUADRIFOGLIO B

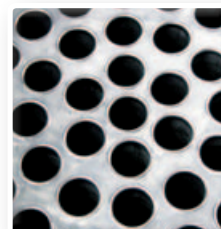
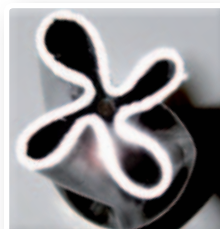
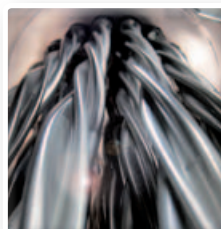


> CARE TO DETAIL

AISI 316 TI stainless steel is used in the construction of the heat exchanger and the condensate collection pan, guaranteeing maximum mechanical strength and resistance to corrosion.

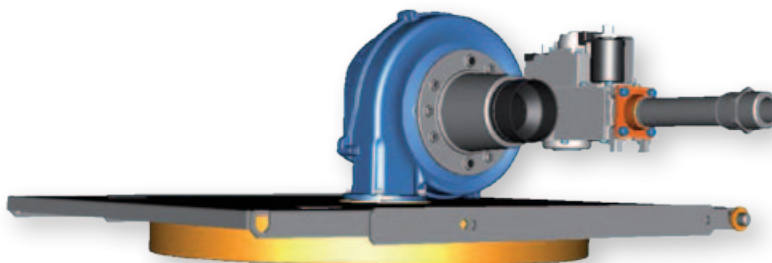
The “four-leaf clover” cross-section of the heat exchanger tubes and their helical arrangement guarantee a larger heat exchange surface, a better heat transfer coefficient between the water and the flue gas, and a very low heat load.

Special care has also been paid to the welding between the flues and the head plates, an area that is especially exposed to corrosion by condensate. Indeed, a special “**speed short-arc**” welding process is adopted, which significantly reduces any problems that may arise when joining together different types of steel.



> PREMIX

QUADRIFOGLIO B features a total premix combustion unit, with variable-speed fan, operating on natural gas or LPG. The special layout of the front combustion burner and the use of a diffusion grill for the air/gas mixture ensure perfect division of the heat load across the combustion chamber, protecting both the burner and the heat exchanger against thermal head. The burner occupies very little space vertically, allowing the entire length of the heat exchanger to be exploited and bringing obvious benefits regarding condensation and stratification in the boiler.



NO_x
< 40 mg/kWh

CO
< 10 mg/kWh

VALUES REFER TO THE
WEIGHTED AVERAGE

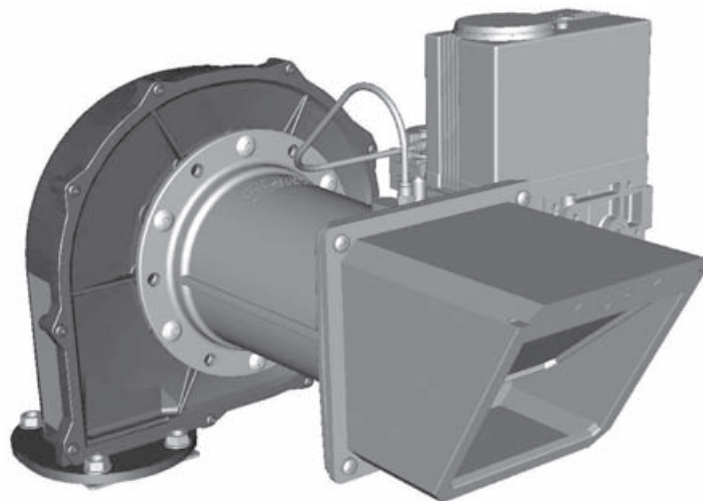
> CHARACTERISTICS

THE HEART OF THE QUADRIFOGLIO B

> FLUE GAS NON-RETURN VALVE

A valve fitted with moving damper is installed as standard on the burner premixing unit fan. This valve prevents flue gas from returning through the boiler, with the consequent release of harmful gases in the installation environment.

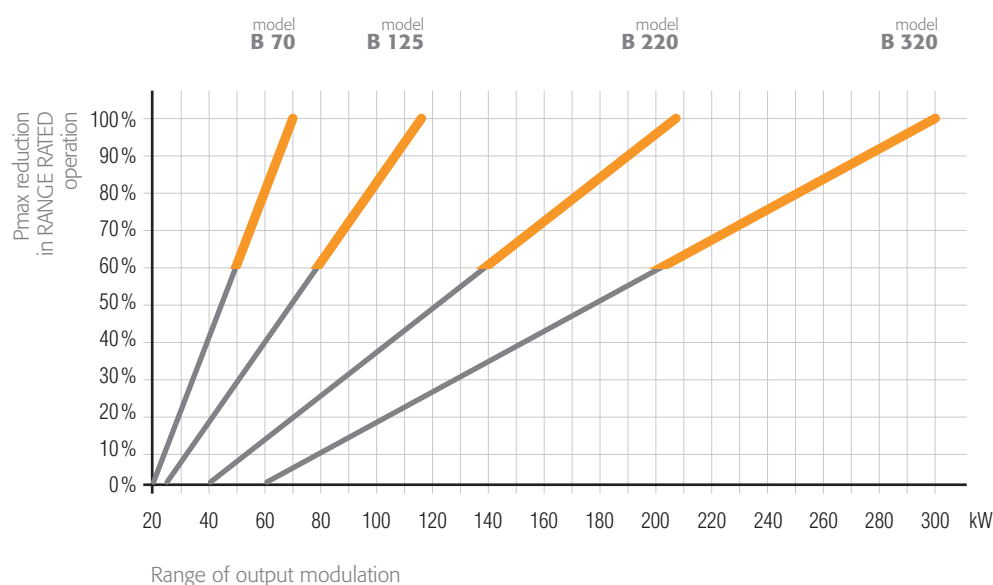
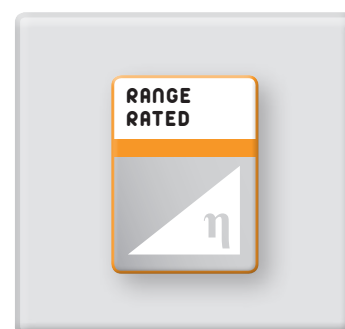
This means the combustion gas can be discharged under pressure and consequently the flue system can be sized more easily, using smaller diameter pipes than in traditional negative pressure systems.



> RANGE RATED

QUADRIFOGLIO B is a "RANGE RATED" boiler in accordance with the requirements defined by standard EN 483.

In fact, heating capacity can be adapted based on system requirements, making the heating system as efficient as possible and guaranteeing the maximum performance declared by the manufacturer.

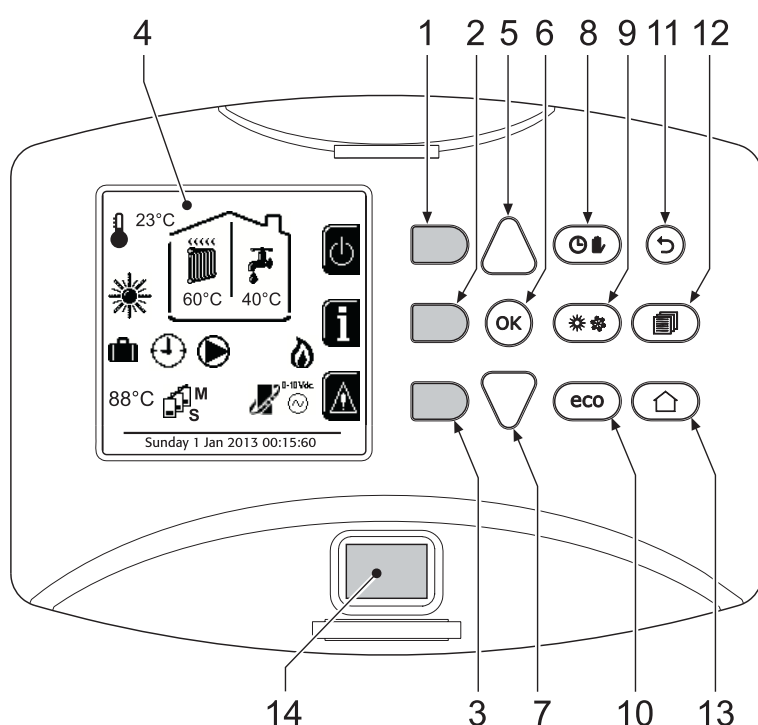


**HEAT INPUT
IS ADAPTED
AS DESCRIBED
IN THE TECHNICAL
DOCUMENTS.
THIS ENSURES
THE PERFORMANCE
AND EFFICIENCY
DECLARED BY
THE MANUFACTURER.**

> CHARACTERISTICS CONTROL PANEL

The QUADRIFOGLIO B series is fitted with a control panel featuring a large dot matrix display and buttons for setting the basic boiler functions and selecting the parameter menus.

The interface has been designed to make it easier to read the parameters and browse the USER menus for controlling and setting the basic functions, and the SERVICE menus for maintenance and advanced parameter settings.



KEY

- 1 Context button 1
- 2 Context button 2
- 3 Context button 3
- 4 Dot matrix display (e.g. main screen)
- 5 Navigation/menu button
- 6 Confirm/enter menu button
- 7 Navigation/menu button
- 8 Automatic/Manual Central heating/DHW mode button
- 9 Select Summer/Winter mode button
- 10 Select Economy/Comfort mode button
- 11 Exit menu button
- 12 Main menu button
- 13 Home button (return to the main screen)
- 14 On/off switch

CONTEXT BUTTONS

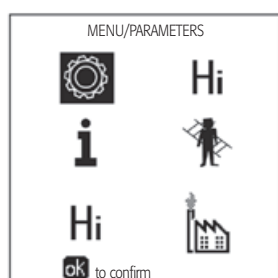
(no. 1, 2, 3) They are grey in colour, have no screen printed markings and their meaning changes depending on the selected menu. The information shown on the display (icons and texts) must be read in order to understand the function. For example, context button 2 (no. 2) provides access to appliance information such as: temperature sensor readings, operating output, etc.

DIRECT BUTTONS (no. 8, 9, 10) always have the same function

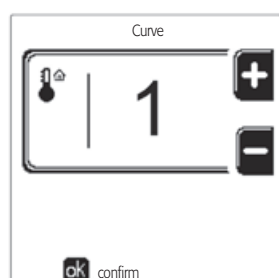
NAVIGATION/MENU BUTTONS

The navigation/menu buttons (no. 5, 6, 7, 11, 12, 13) are used to navigate between the various menus available on the control panel

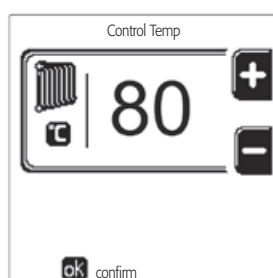
SOME EXAMPLES OF THE DISPLAY INTERFACE



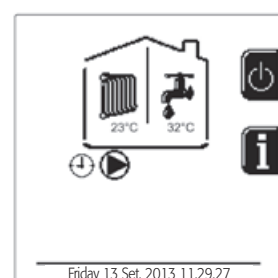
Main service menu



Climate curve setting



Central heating temperature setting



Domestic hot water production with storage cylinder and dedicated pump

> CHARACTERISTICS

ELECTRONIC CONTROL UNIT

INPUTS

REMOTE CONTROL OF TEMPERATURE OR OUTPUT

0 - 10 Vdc signal

REMOTE RESET CONTACT

REMOTE RESET INPUT

230 Vac - 50 Hz power supply

ROOM THERMOSTAT OR REMOTE TIMER CONTROL CONTACT FOR FIRST ZONE

ROOM THERMOSTAT CONTACT FOR SECOND ZONE

OUTSIDE PROBE

CASCADE OUTLET PROBE

DHW STORAGE PROBE

ELECTRONIC BOARD FEATURES



COMMUNICATION PROTOCOL
ModBus

OUTPUTS

1ST SYSTEM ZONE PUMP

230 Vac - 50 Hz power supply

2ND SYSTEM ZONE PUMP/DHW PUMP OR THREE-WAY VALVE

230 Vac - 50 Hz power supply

REMOTE FAULT SIGNAL CONTACT

230 Vac - 50 Hz power supply

MOTORISED BOILER WATER CIRCUIT ON/OFF SOLENOID VALVE

230 Vac - 50 Hz power supply

BURNER ON / LEGIONELLA PROTECTION ON SIGNAL (SET BY PARAMETER)

Free contact

MODULATING PUMP CONTROL SIGNAL

PWM signal

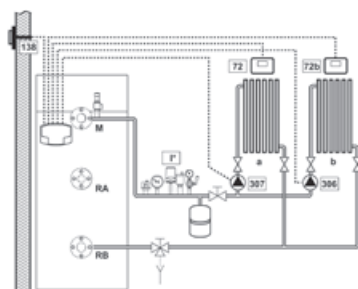
AUXILIARY TERMINALS
230 VAC - 50 HZ

> ELECTRONIC CONTROL UNIT

The electronic controller on the QUADRIFOGLIO B has been designed and developed for integration into the latest system logic. In the standard configuration, the electronic board can control most of the typical devices in a heating system.

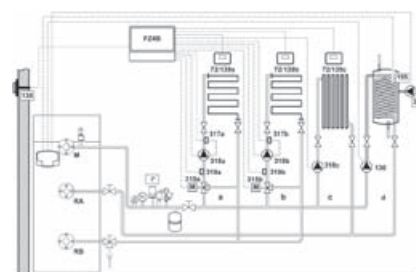
Some of the systems that can be developed include:

HEATING SYSTEM WITH TWO ZONES

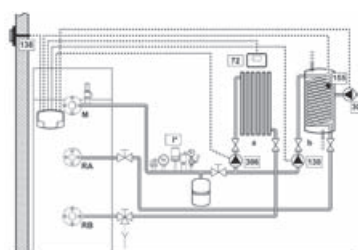


COMBINED SYSTEM WITH THREE HEATING ZONES

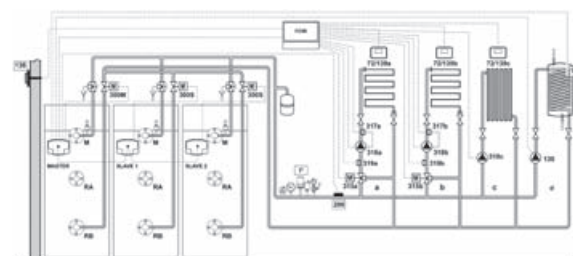
(DHW + 1 DIRECT AND 2 MIXED ZONES)



COMBINED HEATING SYSTEM (CENTRAL HEATING + DHW)

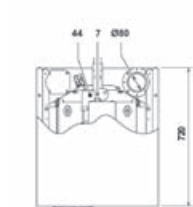


CASCADE INSTALLATION

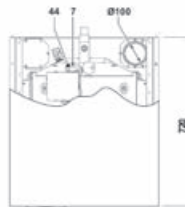
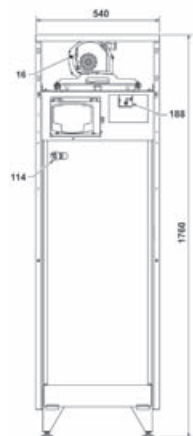


> TECHNICAL SPECIFICATIONS

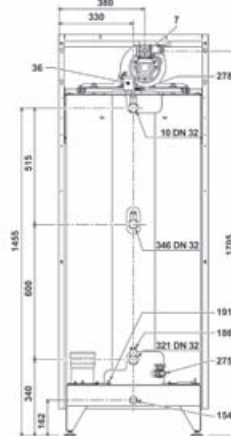
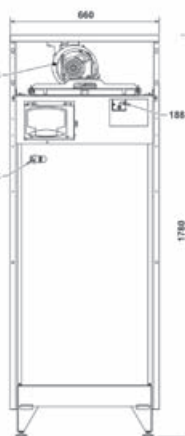
DIMENSIONS - PRESSURE DROP



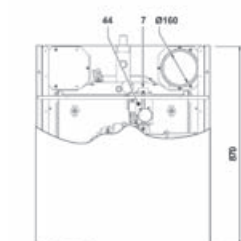
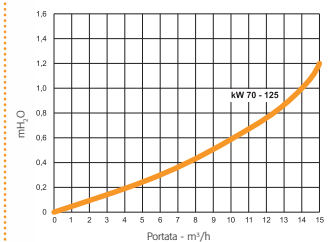
QUADRIFOGLIO B 70



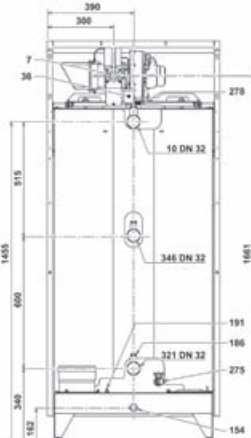
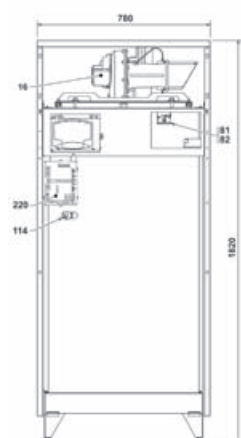
QUADRIFOGLIO B 125



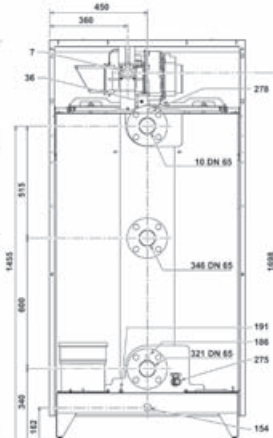
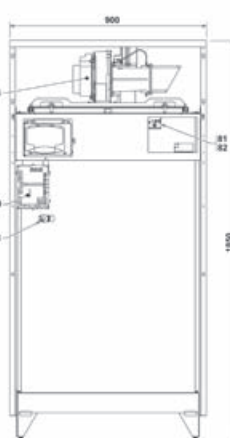
PRESSURE DROP DIAGRAM 70/125



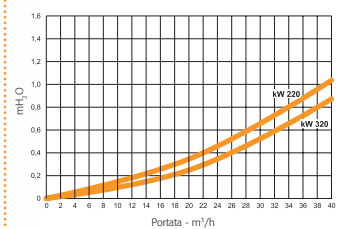
QUADRIFOGLIO B 220



QUADRIFOGLIO B 320



PRESSURE DROP DIAGRAM 220/320



PS: DIMENSION OF GENERATORS MOUNTED WITH JACKETS FOR EXTERNAL INSTALLATION ARE UNCHANGED

KEY 7 Gas inlet **10** System delivery **16** Fan **32** Heating circulating pump (not supplied) **36** Automatic air vent **44** Gas valve **72** Room thermostat (not supplied) **72b** Second room thermostat (not supplied) **81** Ignition electrode **82** Detection electrode **95** Diverter valve (not supplied) **98** Switch **114** Water pressure switch **130** DH-W circulating pump (not supplied) **138** External probe (not supplied) **139** Remote timer control (not supplied) **154** Condensate drain pipe **155** Hot water tank temperature probe (not supplied) **186** Return sensor **188** Ignition/Ionisation electrode **191** Fume temperature sensor **220** Ignition card **256** Modulating heating circulating pump signal **275** Heating system drain cock **278** Double sensor (Safety + Heating) **298** Cascade temperature sensor (not supplied) **299** Input 0-10 Vdc **300** Burner lit contact (voltage-free contact) **301** Fault contact (voltage-free contact) **302** Remote reset input (230 Volt) **306** Heating system circulating pump (not supplied) **307** Heating system second circulating pump (not supplied) **321** Low temperature return **346** High temperature return **357** Faulty contact (230 Vac) **361** Cascade connection of next module **362** Cascade connection of previous module **363** MODBUS communication

> TECHNICAL SPECIFICATIONS

SUMMARY TABLE

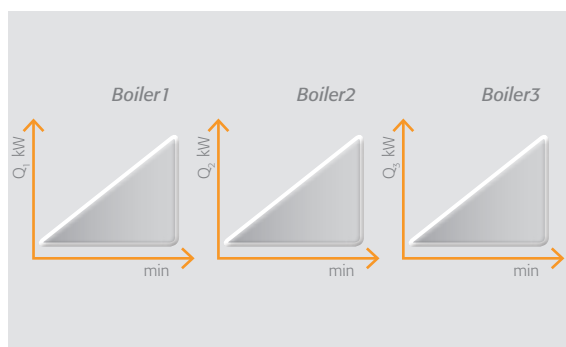
MODEL		70	125	220	320
ERP Class		A	ENERGY LABELLING NOT APPLIED		
Seasonal efficiency	η_s %	94	94	94	94
Efficiency and performance					
Max heat input in central heating mode	kW	65,5	116	207	299
Min heat input in central heating mode	kW	14	23	41	62
Max heat output in CH (80/60°C)	kW	64,4	114	204	294,5
Min heat output in CH (80/60°C)	kW	13,7	22,5	40,2	60,8
Max heat output in CH (50/30°C)	kW	69,9	123,9	221	319,3
Min heat output in CH (50/30°C)	kW	15	24,8	44,2	66,8
Efficiency at Pmax / Pmin (80/60°C)	%	98,3 / 98	98,3 / 98	98,5 / 98	98,5 / 98
Efficiency at Pmax / Pmin (50/30°C)	%	106,8 / 107,7	106,8 / 107,7	106,8 / 107,7	106,8 / 107,7
Efficiency at 30% (30°C)	%	109,6	109,6	109,6	109,6
NOx class		5	5	5	5
Max central heating temperature	°C	90	90	90	90
Max domestic hot water temperature	°C	70	70	70	70
Max heat exchanger ΔT	°C	60	60	60	60
Maximum stack pressure at Pmax	pascal	200	150	200	200
Operating pressure min - max	bar	0,8 - 6	0,8 - 6	0,8 - 6	0,8 - 6
Structural characteristics					
Water content	litres	160	265	380	530
Empty weight	Kg	180	280	400	500
Width	mm	540	660	780	900
Height	mm	1760	1780	1820	1850
Depth	mm	720	720	870	1020
Electrical specifications					
Power supply voltage	V/Hz	230/50	230/50	230/50	230/50
Index of protection	IP	X0D	X0D	X0D	X0D
Power consumption	W	95	200	260	370
Water and gas fittings					
Central heating flow outlet		1" 1/4	1" 1/4	2"	DN 65
Central heating return inlet, low temperature		1" 1/4	1" 1/4	2"	DN 65
Gas inlet		1"	1"	1"	1"
Central heating return inlet, high temperature		1" 1/4	1" 1/4	2"	DN 65
Flue gas outlet Ø (mm)		80	100	160	200
Combustion					
Type of appliance		B23	B23	B23	B23
Combustion efficiency at Pmax	%	98,3	98,3	98,3	98,3
Combustion efficiency at Pmin	%	98,7	98,7	98,7	98,7
Losses through the stack with burner on at Pmax	%	1,7	1,7	1,7	1,7
Losses through the stack with burner on at Pmin	%	1,3	1,3	1,3	1,3
Flue gas temperature at Pmax / Pmin (80/60°C)	°C	68 / 60	66 / 60	67 / 61	67 / 61
Flue gas temperature at Pmax / Pmin (50/30°C)	°C	43 / 32	43 / 32	45 / 31	45 / 31
Flue gas flow-rate at Pmax	kg/h	107,1	189,6	338,4	488,8
Flue gas flow-rate at Pmin	kg/h	23,3	39,9	71,1	107,5
CO ₂ at Pmax	%	9,3	9,3	9,3	9,3
CO ₂ at Pmin	%	9,1	8,7	8,7	8,7
CO O ₂ =0% at Pmax	mg/kWh	17	30	40	35
CO O ₂ =0% at Pmin	mg/kWh	1	2	2	3
CO O ₂ =0% weighted	mg/kWh	5,5	6	8	20
NOx O ₂ =0% at Pmax	mg/kWh	69,7	50	44	41
NOx O ₂ =0% at Pmin	mg/kWh	13,3	10	9	10
NOx O ₂ =0% weighted	mg/kWh	35	37	38	26

> CASCADE INSTALLATION PRACTICAL AND SMART

Every part has been designed to simplify cascade installations. The main points are as follows.

- 1** The water fittings have been positioned at the same heights so as to simplify connection to the system outlet and return manifolds.
- 2** The double flue gas outlet on the right and left sides of the boiler, and the non-return damper positioned directly on the fan simplify sizing and development of the flue gas manifold.
- 3** The QUADRIFOGLIO B range features a complete series of accessories for multiple combinations in groups of two or three boilers, up to a maximum output of 920 kW.
- 4** Each configuration up to 3 modules can be completed with flue gas, water circuit and gas accessories, thus acting like a single generator.
- 5** The electronic controller fitted as standard has been designed to independently manage the operation of multiple heat generators in a cascade, with MASTER-SLAVE logic, up to a maximum of 6 appliances.
- 6** The air/gas system has been designed to allow the group flue gas manifold to be sized for operation under pressure and consequently allow smaller manifolds.
- 7** The parameters available on the cascade MASTER board can be set so as to select the activation sequence of the various modules and rotation of the activation sequence, so as to uniformly divide the number of operating hours.

> PARALLEL OPERATION

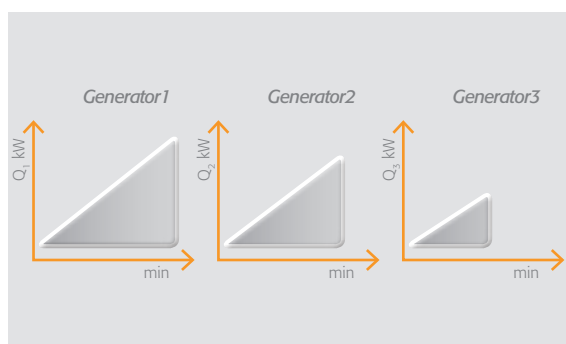


"Parallel" operation of the modules involves simultaneous start-up, output modulation and shut-down of the burners.

This solution ensures maximum system efficiency, as a higher number of appliances on and operating at lower output guarantees maximum condensation.

However, the range of output modulation of the system is limited

> SEQUENTIAL OPERATION



Sequential start-up and output modulation of the burners guarantees a wider range of modulation, from the minimum output of one single boiler to the sum of the maximum outputs of the boiler with all the burners on.

This makes the system more flexible to respond to system heating requirements, however with a slight decline in energy efficiency.

> CASCADE INSTALLATION



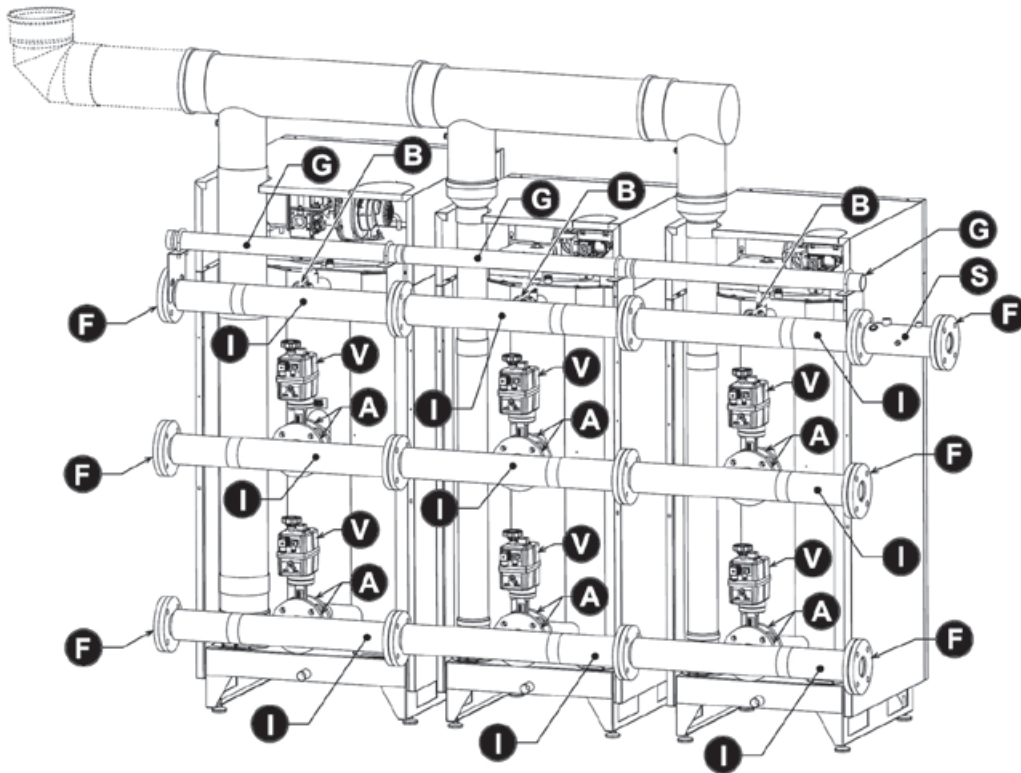
A minimum of two 70 kW boilers up to a maximum of three 320 kW boilers can be connected together, in the combinations shown in the table.

For all these configurations, the company guarantees correct operation and supplies all the water circuit, gas, flue gas manifold accessories and additional cascade safety kits, required to construct a modular installation.

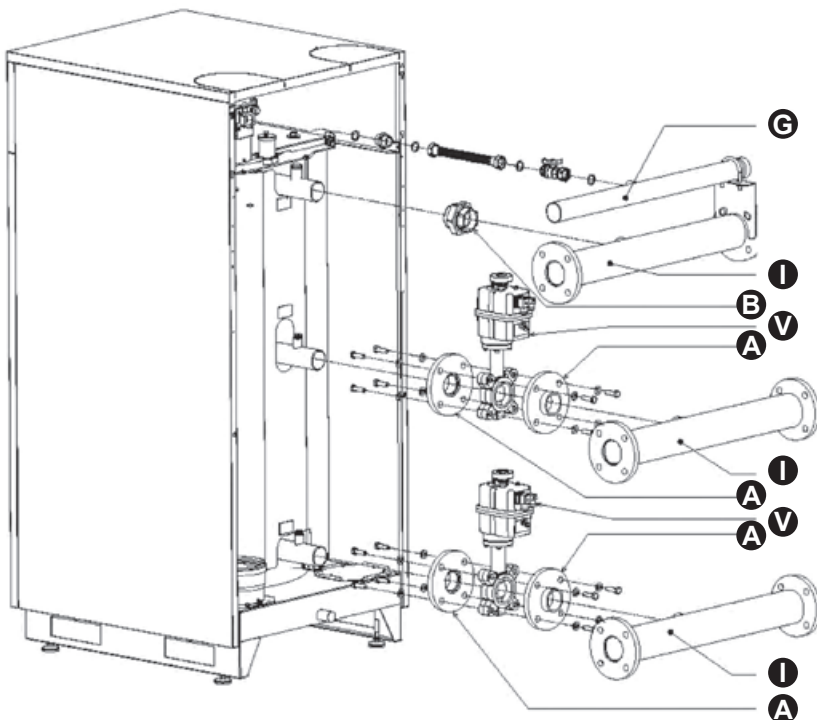
HEAT INPUT	HEAT OUTPUT		CASCADE MODULATION Pmin/Pmax 50/30°C	MODULES QTY	MODELS COMBINATION		
	80/60°C	50/30°C			1	2	3
kW	kW	kW	kW				
131,0	128,8	139,8	15,0/139,8	2	70	70	-
181,5	178,4	194,9	15,0/194,9	2	70	125	-
232,0	228,0	250,0	24,8/250,0	2	125	125	-
247,0	242,8	264,8	15,0/264,8	3	70	70	125
297,5	292,4	319,9	15,0/319,9	3	70	125	125
323,0	318,0	345,0	24,8/345,0	2	125	220	-
348,0	342,0	375,0	24,8/375,0	3	125	125	125
414,0	408,0	440,0	44,2/440,0	2	220	220	-
439,0	432,0	470,0	24,8/470,0	3	125	125	220
506,0	498,5	540,0	44,2/540,0	2	220	320	-
530,0	522,0	565,0	24,8/565,0	3	125	220	220
598,0	589,0	640,0	66,8/640,0	2	320	320	-
621,0	612,0	660,0	44,2/660,0	3	220	220	220
713,0	702,5	760,0	44,2/760,0	3	220	220	320
818,0	793,0	860,0	44,2/860,0	3	220	320	320
897,0	883,5	960,0	66,8/960,0	3	320	320	320

Remark: for the other model combinations the Company doesn't supply cascade accessories

> CASCADE INSTALLATION ACCESSORIES MATCHING - WATER AND GAS



WATER, GAS, FLUES MANIFOLDS



DESCRIPTION OF CASCADE ACCESSORIES

- A** Adaptor for connection of motorized valve
- B** Adaptor connections boiler/manifold
- F** Flange for manifold (one blind flange, a drilled one, including gaskets, screws, nuts)
- G** Gas manifold, including ON/OFF valve, flexible hose, gaskets, screws, nuts
- I** Water manifold, including gaskets, screws, nuts
- S** Manifold for lodging of additional optional safety devices (according to Italian INAIL rules)
- V** Motorised ON/OFF valve

> CASCADE INSTALLATION

WATER AND GAS ACCESSORIES MATCHING

					G	G	G	I	I	I	S	S	S	F	F	F	B	B	A	A	A	V	V																																						
					1"1/2 gas manifold	2" gas manifold	2" 1/2 gas manifold	2" water manifold	2"1/2 water manifold	4" water manifold	2" safety accessories manifold	2"1/2 safety accessories manifold	4" safety accessories manifold	2" flange kit	2" 1/2 flange kit	4" flange kit	F-F coupling 1"1/4	F-F coupling 2"	2"-1"1/2 M-F reduction nipples	DN50 flange - 1"1/4 connection	DN65 flange - 2" connection	DN50 valve	DN65 valve																																						
																																																													
					042050X0	042051X0	042052X0	042053X0	042054X0	042055X0	042056X0	042057X0	042058X0	042059X0	042060X0	042061X0	042062X0	042063X0	042064X0	042065X0	042066X0	052000X0	052001X0																																						
HEAT INPUT kW	MODULES QUADRIFOGLIO B			MANI-FOLD	nr.	nr.	nr.	nr.	nr.	nr.	nr.	nr.	nr.	nr.	nr.	nr.	nr.	nr.	nr.	nr.	nr.	nr.	nr.																																						
																																																													
131,0	70	70	-	Gas	2																																																								
				Flow				2			1			1			2																																												
				Return				2					1					4			2																																								
181,5	70	125	-	Gas	2																																																								
				Flow				2			1			1			2																																												
				Return				2					1						4			2																																							
232,0	125	125	-	Gas	2																																																								
				Flow				2			1			1			2																																												
				Return				2					1						4			2																																							
247,0	70	70	125	Gas	3																																																								
				Flow				3			1			1			3																																												
				Return				3					1						6			3																																							
297,0	70	125	125	Gas	3																																																								
				Flow				3			1			1			3																																												
				Return				3					1						6			3																																							
323,0	125	220	-	Gas		2																																																							
				Flow					2			1			1			2	1																																										
				Return					2					1				1			4		2																																						
348,0	125	125	125	Gas		3																																																							
				Flow					3			1			1			3	3																																										
				Return					3					1				3	3		6		3																																						
414,0	220	220	-	Gas		2																																																							
				Flow					2			1			1			2																																											
				Return					2					1							4		2																																						
439,0	125	125	220	Gas		3																																																							
				Flow					3			1			1			3	2																																										
				Return					3					1				2			6		3																																						
506,0	125	220	220	Gas		3																																																							
				Flow					3			1			1			3	1																																										
				Return					3					1				1			6		3																																						
530,0	220	320	-	Gas			2																																																						
				Flow						2			1			1					1																																								
				Return						2						1					1		2																																						
598,0	320	320	-	Gas			2																																																						
				Flow						2			1			1																																													
				Return						2						1							2																																						
621,0	220	220	220	Gas			3																																																						
				Flow						3			1			1					3																																								
				Return						3						1					3		3																																						
713,0	320	220	220	Gas			3																																																						
				Flow						3			1			1					2																																								
				Return						3						1					2		3																																						
818,0	320	320	220	Gas			3																																																						
				Flow						3			1			1					1																																								
				Return						3						1					1		3																																						
897,0	320	320	320	Gas			3																																																						
				Flow						3			1			1																																													
				Return						3						1							3																																						

> CASCADE INSTALLATION

FLUES MANIFOLD



DESCRIPTION OF CASCADE ACCESSORIES

- C** 90° bend, PPs, with gaskets
- E** Flues manifold, PPs, including gaskets
- P** One side-blind flues manifold, including condensate siphon
- R** Reduction for connection top flues manifold/vertical flue pipe
- T** Vertical pipe for connection from stack to top flues manifold

> CASCADE INSTALLATION

FLUES MANIFOLD MATCHING

					P	P	P	E	E	E	T	T	T	T	T	T	C	C	C	C	R	R	R	
					Ø 300 flue manifold (first boiler)	Ø 200 flue manifold (first boiler)	Ø 160 flue manifold (first boiler)	Ø 300 flue manifold (additional boiler)	Ø 200 flue manifold (additional boiler)	Ø 160 flue manifold (additional boiler)	1 mt MF pipe, Ø 300, PPs	1 mt MF pipe, Ø 200, PPs	0.5 mt MF pipe, Ø 200, PPs	1 mt MF pipe, Ø 160, PPs	0.5 mt MF pipe, Ø 160, PPs	1 mt MF pipe, Ø 100, PPs	0.5 mt MF pipe, Ø 100, PPs	90° MF bend, Ø 300	90° MF bend, Ø 200, PPs	90° MF bend, Ø 160, PPs	90° MF bend, Ø 100, PPs	Ø 160 - 200 MF reduction, PPs	Ø 100 - 160 MF reduction, PPs	Ø 80 - 100 MF reduction, PPs
																								
					041070X0	041068X0	041066X0	041071X0	041069X0	041067X0	041063X0	041062X0	041076X0	041018X0	041074X0	041073X0	041072X0	041061X0	041060X0	041015X0	041077X0	041080X0	041079X0	041078X0
HEAT INPUT kW	MODULES QUADRIFOGLIO B			FLUE GAS EVACUATION	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.		
																								
131,0	70	70	-	Low			1			1									2			2		
				Medium			1			1					2	2			2			2		
				High			1			1					2	2						2		
181,5	70	125	-	Low			1			1								2			1			
				Medium			1			1					2	2			2			1		
				High			1			1					2	2						1		
232,0	125	125	-	Low			1			1								2						
				Medium			1			1					2	2			2					
				High			1			1					2	2								
247,0	70	70	125	Low			1			2								3			2			
				Medium			1			2					3	3			3			2		
				High			1			2					3	3						2		
297,0	70	125	125	Low			1			2								3			1			
				Medium			1			2					3	3			3			1		
				High			1			2					3	3						1		
323,0	125	220	-	Low		1			1								2			1				
				Medium		1			1				1	2	1	1			2		1			
				High		1			1				1	2	1	1					1			
348,0	125	125	125	Low		1			2								3			3				
				Medium		1			2						3	3			3		3			
				High		1			2					3	3					3				
414,0	220	220	-	Low		1			1								2							
				Medium		1			1				2	2				2						
				High		1			1				2	2										
439,0	125	125	220	Low		1			2					1				3			2			
				Medium		1			2				1	2	2	2			3			2		
				High		1			2				1	2	2	2						2		
506,0	125	220	220	Low		1			2					2				3			1			
				Medium		1			2				2	4	1	1			3			1		
				High		1			2				2	4	1	1						1		
530,0	220	320	-	Low	1				1								2			1				
				Medium	1				1			1	1					2			1			
				High	1				1			1	1			3				1				
598,0	320	320	-	Low	1				1								2							
				Medium	1				1			2	2				2							
				High	1				1			2	2											
621,0	220	220	220	Low	1				2								3			3				
				Medium	1				2						9			3			3			
				High	1				2						9						3			
713,0	320	220	220	Low	1				2								3			2				
				Medium	1				2				1	1		6			3			2		
				High	1				2				1	1		6					2			
818,0	320	320	220	Low	1				2								3			1				
				Medium	1				2				2	2		3			3			1		
				High	1				2				2	2		3					1			
897,0	320	320	320	Low	1				2								3							
				Medium	1				2				3	3				3						
				High	1				2				3	3										



NOTICE FOR DEALERS:

As part of its efforts to constantly improve its range of products, with the aim of increasing the level of customer satisfaction, the company stresses that the appearance, dimensions, technical data and accessories may be subject to variation.

Consequently, ensure that the customer is provided with up-to-date technical and/or sales documents (price lists, catalogues, brochures, etc....).

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