



MULTIPARVA 3.0 SR MULTIPARVA 3.0 SV ACCESSORIES

Multiparva 3.0 POWER CONDENSING BOILERS

PROFESSIONAL 2020





OUR COMPANY

Biasi englobes the experience, skills, organization and patents of a company history that started in the 1930s and developed to become an industry professional. For over 80 years we have been operating in the heating industry, investing in Italy and abroad looking for solutions for comfort in the domestic and professional industries. Today our offer covers all market segments: from wall-hung to floor-standing condensing boilers, water heaters, a wide range of integrated systems with solar based on high energy efficiency. It also supplies new complete systems with heat pumps and hybrids, which can be integrated with radiant solutions, operating at low temperatures.



OUR HISTORY



QUALITY

TECNOLOGY AND RELIABILITY

RESEARCH AND INNOVATION

ITALIAN DESIGN

COSTUMER CARE

FLEXIBILITY

STRUCTURED LOGISTIC

Our wall hung boilers' factory is equipped to:

- produce up to 160,000 boilers per year;

- produce 500 different part numbers;

- produce more than 16 product ranges,

OUR PRODUCTS

RESIDENTIAL

Condensing boilers Traditional boilers Hybrid systems Heat pumps Water heaters Air conditioning Solar panels Boilers Integrated systems with solar We constantly design and improve our products. We assemble them in our assembly lines, we check the quality at each step of the process. The value of Made in Italy is in every detail.



PROFESSIONAL Boilers for centralized systems

SPARE PARTS

Summary

The range:



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Multiparva 3.0 Biasi



Power condensing boilers

Comfort and energy savings, this is what a climate control system of today has to provide. In the past, we simply needed to carefully select one component, the boiler, to take case of all user needs and comply with legal requirements. That careful choice translated into the search for a quality boiler, which was generally oversized. Today, the requirements of these two parameters have to be met simultaneously: comfort and energy savings. To obtain this, it is not enough to simply choose a boiler with care, but there also has to be the synergetic combination of multiple elements, which must be managed intelligently within a logic of energy savings. Therefore the plant becomes a system. The Biasi Professional line, to which the Biasi solar catalogue is a natural complement, offers a series of products designed to be smoothly integrated with this system. Furthermore, Biasi is able to provide its customers with the fruits of its experience, matured over the years within this sector.



Multiparva 3.0

Multiparva 3.0 is a latest generation extremely high efficiency condensing boiler for heating only, equipped with a pre-mixed modulating burner with low emissions and stainless steel condensing heat exchanger with high calorific power values.

It is available from 35, 45, 70, 95, 110, 115, 150 heat capacity. It can be installed individually or up to 6 modules can be combined, of the same or mixed heat outputs, directly exploiting the boiler electronic control unit.

Multiparva Cond 3.0 exploits the condensing principle: thanks to the innovative heat exchanger in stainless steel and the two separate sections, one dedicated to condensing only, it is able to recover the latent heat contained in the flue gases, obtaining efficiency levels which are some of the highest in the category.

Multiparva 3.0 F 35 - 45 - 70



	F 1
1.	Exchanger
2.	Burner
3.	Electrodes
4.	Electronic board
5.	Display
6.	Gas valve
7.	Fan
8.	Circulator
9.	Pressure transmitter
10.	Safety valve (4 bar)
11.	Expansion vessel
12.	Flue gas probe
13.	Safety thermostat
14.	Discharge probe
15.	Return probe
16.	Thermal fuse
17.	Siphon pressure switch

Multiparva 3.0 F 95 - 110 - 115 - 150



Exchanger Burner Electrodes Electronic board Display Gas valve Fan Circulator Pressure transmitter Safety valve (5.4 bar) Expansion vessel Flue gas probe Safety thermostat Discharge probe Return probe Body probe Thermal fuse Siphon pressure switch (all models) Pressure switch APS (M158HE.115/F & M158HE.150/F)

2. 3. 4. 5. 6. 7. 8. 9. 10.

11.
 12.
 13.
 14.
 15.
 16.
 17.
 18.





SCHEMES Multiparva 3.0 F 35 - 45 - 70



- 1.Expansion vessel (model only/F)
- 2. Remote ignitor
- 3. Manual vent valve
- 4. Exhaust vent
- 5. Safety thermostat
- 6. Modulating circulator (only mo
- of /F only)
- 7. Heating flow pipe
- 8. Heating flow NTC probe
- 9. Gas valve
- 10. Gas inlet
- 11. Condensate drain trap
- 12. Condensate drain pipe
- 13. Boiler drain tap
- 14. Safety valve drain
- 15. Heating return pipe
- 16. Pressure transducer
- 17. Non-qualified safety valve qualified (model /F only)

- 18. NTC probe heating return 19. Manometer
- 20. Fan
- 21. Burner
- 22. Air intake duct complete with
- with silencer
- 23. Flame detection electrode
- 24. Ignition electrode
- 25. Condensation exchanger
- 26. Flue gas probe
- 27. Smoke expulsion duct
- 28. Siphon pressure switch
- 29. thermal fuse heat exchanger

- 1. Expansion vessel (model /F only)
- 2. Remote igniter
- 3. Automatic vent valve 4. Vent discharge
- 5. Boiler body NTC probe 6. Safety thermostat
- 7. Modulating circulator (only model /F)
- 8. Heating flow pipe
- 9. Heating flow NTC probe 10. Gas valve
- 11. Gas inlet
- 12. Condensate drain trap
- 13. Condensate drain pipe
- 14. Boiler drain tap
- 15. Safety valve drain 16. Heating return pipe
- 17. Pressure transducer
 - 18. Safety valve not qualified (only
 - model/F)

- 19. NTC probe heating return
- 20. Pressure gauge
- 21. Fan 22. Burner
- 23. Air intake duct complete with silen-
- cer 24. Flame detection electrode
- 25. Combustion chamber thermostat
- 26. Ignition electrode
- 27. Condensing primary exchanger
- 28. Flue gas probe
- 29. Flue gas expulsion duct connection
- 30. siphon pressure switch
- 31. Air pressure switch (APS) (only M158HE.115/F & M158HE.150/F)
- 32. rear thermal-fuse

Multiparva 3.0 F 95 - 110 - 115 - 150







The new boiler body

New condensing exchangers/new powers

New ISOTHERMIC exchanger

Plus:

- EASE OF MAINTENANCE

By removing only some front nuts the combustion chamber is easily accessed

- LOW FLUE GAS PRESSURE DROPS

Thanks to the uniform space between the coils, low flue gasside pressure drops are guaranteed

- LIGHT

This exchanger is made in double structure, composite material, and stainless steel. Thanks to the choice to use the composite material, it is very light and low radiation losses



34 kW (unpowered boiler) 45 kW 70 kW

- maximum working pressure
- maximum pressure drops 4.5 mca
- improved prevalence





MULTIPARVA 3.0 WALL MOUNTED LOW EMISSION GAS-FIRED BOILER



New DUOPOWER exchanger

- powers: 95 / 110 / 115 / 150 kW
- for 95 kW power duopower model 8+4
- for power from 110 kW duopower model 10+5
- for power from 115/150 kW duopower model 12+6



95 kW
110 KW
115 kW (unpowered boiler)
150 kW



FEATURES:

- Composed by two overlapping chambers
- entirely in stainless steel
- Maximum working pressure 6bar
- Maximum pressure drops between 4.2 and 4.5 mca



HEATING ONLY CONFIGURATIONS | SR

The SV application kit is made by a hydraulic separator, useful for interfacing the boiler with the system, and an INAIL safety unit compliant with the "R" collection. Safety unit complying with the requirements of the "R" collection. It is also available in the version for free installation with heat exchanger and INAIL safety group, as an alternative to the SR application kit. For accessories see page 24.



Management of a HIGH TEMPERATURE zone and a LOW TEMPERATURE zone with external control.



- 1. Boiler
- 2. INAIL safety module
- 3. Hydraulic separator (*)
- 4. Fuel shut-off valve
- 5. System return collector
- 6. System delivery collector
- 7. Purification filter
- SE External probe (*)
- NC Condensate neutraliser (*)
- Sc Discharge
- RS System breaker cock
- ZAt High temperature zone
- ZBt Low temperature zone
- TA1 High temperature zone ambient thermostat
- TA2 Low temperature zone ambient thermostat
- PR1 High temperature system pump
- PR2 Low temperature system pump
- VM Low temperature system mixer valve
- Sic Fuel shut-off probe
- GAS Fuel supply
- IAF Cold water inlet



Examples of package: Multiparva 3.0 F SR installation package from 35 to 150 KW only heating

POWER CONDENSING BOILERS	
Code (natural gas)	Description
10277.2068.0	Multiparva 3.0 F 35
10277.2069.0	Multiparva 3.0 F 45
10277.2070.0	Multiparva 3.0 F 70
10277.2071.0	Multiparva 3.0 F 95
10277.2072.0	Multiparva 3.0 F 110
10338.2020.0	Multiparva 3.0 F 115
10277.2073.0	Multiparva 3.0 F 150

OPTIONAL

STANDARD INSTALLATION KIT	
Code	Description
10999.1057.0	Kit for single SR boiler separator
10999.1055.1	Boiler plant structure kit
10999.0725.0	Condensate neutraliser kit from 35 to 150
10999.3417.0	External probe kit

NATURAL GAS - LPG CONVERSION	
Code	Description
10999.1408.0	Natural Gas - LPG conversion KIT 70
10999.1409.0	Natural Gas - LPG conversion KIT 95
10999.1410.0	Natural Gas - LPG conversion KIT110
10999.1411.0	Natural Gas - LPG conversion KIT 115 - 150

SAFETY DEVICES - 'INAIL' QUALIFIED	
Code	Description
10999.0485.0	Qualified safety valve 4 bar 1/2" G x 3/4" G - for 35-45-70 powers
10999.0486.0	Qualified safety valve 5,4 bar 1/2" G x 3/4" G - for 95-110-115-150 powers



HEATING CONFIGURATIONS + DHW | SV

The SV application kit consists of a hydraulic separator, which is useful for interfacing the boiler with the system, and a unit INAL safety iaccording to the requirements of the "R" collection, it is also equipped with a circulator for loading a possible boiler.



Management of a HIGH-temperature zone, a LOW-temperature zone with external control and a LOW-temperature zone with external control of a remote BOILER directly from the heat generator.



- 1. Boiler
- 2. INAIL safety module
- 3. Hydraulic separator (*)
- 4. Water heater coil pump (*)
- 5. Fuel shut-off valve
- 6. Remote water heater (**) (managed directly from the boiler via a 3-way valve)
- 7. System return collector
- 8. System delivery collector
- 9. Purification filter

(*) Available as an accessory.

- (**) In this configuration the use of a water heater with a coil of a suitable size is recommended.
- SE External probe (*)
- NC Condensate neutraliser (*)
- SB Water heater probe (*)
- Sc Discharge
- RS System breaker cock
- ZAt High temperature zone
- ZBt Low temperature zone
- TA1 High temperature zone ambient thermostat
- TA2 ow temperature zone ambient thermostat
- PR1 High temperature system pump
- PR2 Low temperature system pump
- VM Low temperature system mixer valve
- Sic Fuel shut-off probe
- GAS Fuel supply
- IAF Cold water inlet
- UAC Hot water outlet



Examples of package: Multiparva 3.0 F SV installation package from 35 to 150 KW heating and sanitary boiler management.

POWER CONDENSING BOILERS	
Code (natural gas)	Description
10277.2068.0	Multiparva 3.0 F 35
10277.2069.0	Multiparva 3.0 F 45
10277.2070.0	Multiparva 3.0 F 70
10277.2071.0	Multiparva 3.0 F 95
10277.2072.0	Multiparva 3.0 F 110
10338.2020.0	Multiparva 3.0 F 115
10277.2073.0	Multiparva 3.0 F 150

OPTIONAL

STANDARD INSTALLATION KIT	
Code	Description
10999.1058.0	Kit for single SR boiler separator
10999.1055.1	Boiler plant structure kit
10999.0725.0	Condensate neutraliser kit from 35 to 150
10999.3417.0	External probe kit
10999.3429.0	Remote tank probe kit

NATURAL GAS - LPG CONVERSION	
Code	Description
10999.1408.0	Natural Gas - LPG conversion KIT 70
10999.1409.0	Natural Gas - LPG conversion KIT 95
10999.1410.0	Natural Gas - LPG conversion KIT110
10999.1411.0	Natural Gas - LPG conversion KIT 115 - 150

SAFETY DEVICES - 'INAIL' QUALIFIED	
Code	Description
10999.0485.0	Qualified safety valve 4 bar 1/2" G x 3/4" G - for 35-45-70 powers
10999.0486.0	Qualified safety valve 5.4 bar 1/2" G x 3/4" G - for 95-110-115-150 powers



Multiparva 3.0 F 35 - 45 -70



Mult	iparva 3.0 F 45
0000	MODULATION 1:9
4	MAX PRESS 4,5 BAR
\bigcirc	NATURAL GAS OR LPG
	NOX 6 CLASS * * * *
	PERFORMANCE 97,8%
(referred to	45 kW version)





Multiparva 3.0 is a latest generation extremely high efficiency condensing boiler for heating only, equipped with a pre-mixed modulating burner with low emissions and stainless steel condensing heat exchanger with high calorific power values.

It is available from 35, 45, 70, 95, 110, 115, 150 heat capacity. It can be installed individually or up to 6 modules can be combined, of the same or mixed heat outputs, directly exploiting the boiler electronic control unit. Multiparva Cond 3.0 exploits the condensing principle: thanks to the innovative heat exchanger in stainless steel and the two separate sections, one dedicated to condensing only, it is able to recover the latent heat contained in the flue gases, obtaining efficiency levels which are some of the highest in the category. Multiparva Cond H can be installed inside a boiler room or, thanks to the Roof Top version, it can be enclosed inside a cabinet on the outside of the building or on the roof itself. This solution is extremely advantageous in the case of thermal regualification of a boiler plant.

Dimensions and connections





Heating delivery (1"1/4 M)

Heating return (1"1/4 M) Condensate siphon drain (Ø 25 mm)

MI RI

SD





POWER CONDENSING BOILER	
Natural gas code	Description
10277.2068.0	Multiparva 3.0 F 35
10277.2069.0	Multiparva 3.0 F 45
10277.2070.0	Multiparva 3.0 F 70

Technical data			MULTIPARVA 3.0 F		
DESCRIPTION		154HE.35/F	M154HE.45/F	M155HE.70/F	
General					
Fuel			G20 (20 mbar) - G31 (37 mbar)		
Country of destination			ITALY		
Category			II2H3P		
Туре		B23, C13, C33, C43, C53, C63, C83, C13X			
Max nominal heat input (Qn)	kW	34,8	45,0	69,9	
Min nominal heat input (Qmin)	kW	5,0	5,0	7,7	
Nominal output power (80-60°C)	kW	33,9	43,8	68	
Minimum output power for heating (80-60°C)	kW	4,8	4,8	7,5	
Nominal output power (50-30°C)	kW	36,8	46,4	74,5	
Minimum output power for heating (50-30°C)	kW	5,3	5,3	8,1	
Performances					
Efficiency measured at nominal heat input (80-60°C)	%	97,3	97,3	97,3	
Efficiency measured at minimum heat input (80-60°C)	%	96,6	96,5	97,2	
Efficiency measured at nominal heat input (50-30°C)	%	105,7	103,1	106,6	
Efficiency measured at minimum heat input (50-30°C)	%	106,6	106,7	105,8	
Efficiency measured at 30% of the load (30°C)	%	108,1	108,1	108,4	
Max gas consumption G20	m³/h	3,7	4,7	7,4	
Min gas consumption G20	m³/h	0,5	0,5	0,8	
Max gas consumption G31	m³/h	1,4	1,9	2,7	
Min gas consumption G31	m³/h	0,2	0,2	0,3	
Performances UE 813/2013					
η1	%	87,5	87,5	87,4	
η4	%	97,3	97,3	97,6	
Emissions					
Flue temperature measured at nominal heat input (80-60°C)	°C		65 - 80		
Flue temperature measured at minimum heat input (80-60°C)	°C		55 - 65		
Flue temperature (50-30°C) max/min	°C		35 - 45		
Condensate production measured at nominal heat input	l/h	5,5	7	11	
Flue max flow at nominal heat input	kg/sec	0,0166	0,0213	0,0322	
Flue max flow at minimum heat input	kg/sec	0,0024	0,0024	0,0036	
CO2 min/max (G20)	%	8,8/9,1	8,8/9,1	9,1/9,4	
CO2 min/max (G31)	%	9,6/9,9	9,6/10,1	9,8/10	
CO at nominal heat input (G20)	ppm	85	110	180	
CO at nominal heat input (G31)	ppm	60	95	110	
NOx	mg/kWh	25	29	31	
NUX class			6		
Electrical data			100	000	
Electronic power consumption @ 20°K	W	80	120	230	
Power supply voltage	V~HZ		230~50		
Protection rating			IPX4D		
Boller	h a s		4.5		
Max working pressure	bar		4.5		
Safety valve calibration (model /Pv only)	uai •c		4		
Max At dolivon-roturn	۰ د		00		
Max ΔL delivery-return		1 5	35	2.0	
Content of exchanger water	111711	2.74	2.74	2,0	
Pesidual head at thom=20°K	mHaO	5.5	2,74	3.8	
Flue das discharde	111120	0,0	0,0	5,0	
Chimney connection exhaust/air inlet	mm		100/100		
Residual air/flue pressure available (#100/80) (G20)	Pa	110/90	140/120	190/160	
Residual air/flue pressure available (#100/00) (020)	Pa	110/90	140/120	190/160	
Dimensions and weights	i a	110/20	120/120	190/100	
Width	mm		600		
Depth	mm		477		
Height	mm		840		
Weight	ka	60	60	65	
J	3				

Multiparva 3.0 F 95 - 110



Multiparva 3.0 F 95

MODULATION 1:9 PRESS MAX 6,0 BAR $\left(\right)$ NATURAL GAS OR LPG ¥ NOX 6 CLASS * * * * **PERFORMANCE 97.8%**

(referred to 95 kW version)



Multiparva 3.0 is a latest generation extremely high efficiency condensing boiler for heating only, equipped with a pre-mixed modulating burner with low emissions and stainless steel condensing heat exchanger with high calorific power values.

It is available from 95, 110 heat capacity. It can be installed individually or up to 6 modules can be combined, of the same or mixed heat outputs, directly exploiting the boiler electronic control unit.

Multiparva Cond 3.0 exploits the condensing principle: thanks to the innovative heat exchanger in stainless steel and the two separate sections, one dedicated to condensing only, it is able to recover the latent heat contained in the flue gases, obtaining efficiency levels which are some of the highest in the category. Multiparva Cond H can be installed inside a boiler room or, thanks to the Roof Top version, it can be enclosed inside a cabinet on the outside of the building or on the roof itself. This solution is extremely advantageous in the case of thermal requalification of a boiler plant.

Dimensions and connections



- Heating delivery (1"1/4 M) Heating return (1"1/4 M) MI
- RI
- Condensate siphon drain (Ø 25 mm) SD Safety valve exhaust
- SV SC Boiler drain





POWER CONDENSING BOILERS			
Natural gas code	Description		
10277.2071.0	Multiparva 3.0 F 95		
10277.2072.0	Multiparva 3.0 F 110		

MULTIPARVA 3.0 F



Technical data

DESCRIPTION		M156HE.95/F	M157HE.110/F
General			
Fuel		G20 (20 mbar) - G31 (37 mbar)
Country of destination		TI	ALIA
Category			2H3P
Туре		B23, C13, C33, C43	8, C53, C63, C83, C13X
Max nominal heat input (Qn)	kW	95,0	115,0
Min nominal heat input (Qmin)	kW	10,5	12
Nominal output power (80-60°C)	kW	92,9	112
Minimum output power for heating (80-60°C)	kW	10,2	11,8
Nominal output power (50-30°C)	kW	101,2	118,7
Minimum output power for heating (50-30°C)	kW	11,2	12,5
Performances			
Efficiency measured at nominal heat input (80-60°C)	%	97,8	97,4
Efficiency measured at minimum heat input (80-60°C)	%	97,1	98,2
Efficiency measured at nominal heat input (50-30°C)	%	106,5	103,2
Efficiency measured at minimum heat input (50-30°C)	%	106,9	104
Efficiency measured at 30% of the load (30°C)	%	108,7	108,3
Max gas consumption G20	m³/h	10,1	12,2
Min gas consumption G20	m³/h	1,1	1,3
Max gas consumption G31	m³/h	3,9	4,5
Min gas consumption G31	m³/h	0,4	0,5
Performances UE 813/2013			
η1	%	87,8	87,5
η4	%	97,9	97,6
Emissions			
Flue temperature measured at nominal heat input (80-60°C)	°C	6	5-80
Flue temperature measured at minimum heat input (80-60°C)	°C	5	5-65
Flue temperature (50-30°C) max/min	°C	3	5-50
Condensate production measured at nominal heat input	l/h	14,8	18
Flue max flow at nominal heat input	kg/sec	0,045	0,053
Flue max flow at minimum heat input	kg/sec	0,005	0,006
CO2 min/max (G20)	%	9,0/9,2	9,0/9,4
CO2 min/max (G31)	%	9,6/10	9,1/10,1
CO at nominal heat input (G20)	ppm	170	210
CO at nominal heat input (G31)	ppm	130	125
NOx	mg/kWh	43	32
NOx class			6
Electrical data			
Electronic power consumption @ 20°K	W	300	330
Power supply voltage	V~Hz	230\	/ - 50Hz
Protection rating		It	9X4D
Boller	h = 1		6
Max working pressure	bar		6
Safety valve calibration (model /PV only)	bar		5,4
Maximum operating temperature	•0		85
Max AL delivery-return		4.1	35
Content of exchanger water		4,1	4,7
		0,8	7.0
Residual nead at .tnom=20 K	ITIH2U	Ζ,Ζ	7,8
Chimpoy connection exhaust/air inlat	mm	10	0/100
Desidual air/flue pressure available (#100/90) (C20)	Do	200/170	220/100
Residual air/flue pressure available (#100/80) (G20)	Po	170/150	100/160
Dimensions and weights	Гd	170/130	190/100
Width	mm		600
Denth	mm		477
Height	mm		840
Weight	ka	07	103
The second se	NY	21	100

Multiparva 3.0 F 115 - 150



Multiparva 3.0 F 150 0000 **MODULATION 1:8** PRESS MAX 6,0 BAR $\left(\right)$ NATURAL GAS OR LPG NOX 6 CLASS * * * * PERFORMANCE 97,4% (referred to 150 kW version)



Multiparva 3.0 is the latest generation of condensing boilers with very high efficiency for heating only. modulating premix burner with low emissions and high-performance stainless steel condensing exchanger. Available in versions from 115 to 150, of thermal capacity: it can be installed individually or can be used as a stand-alone boiler.

It can be installed individually or up to 6 modules can be combined, of the same power or mixed, directly exploiting the boiler electronics.

Multiparva Cond 3.0 use the principle of condensation: thanks to the innovative INOX exchanger - one dedicated only to condensation - it is able to recover the latent heat contained in the flue gases, achieving the highest efficiency in its category.

Multiparva Cond H can be installed inside a boiler room or, thanks to the special version Roof Top version enclosed in a cabinet, outside the building or on the roof, which is an extreme solution.

370

12

Ø97

This is an extremely advantagous solution in case of thermal upgrading of a central heating.

Dimensions and connections



- Heating delivery (1"1/4 M) Heating return (1"1/4 M) MI
- RI
- Condensate siphon drain (Ø 25 mm) SD Safety valve exhaust
- SV SC Boiler drain



POWER CONDENSING BOILERS			
Natural gas code	Description		
10338.2020.0	Multiparva 3.0 F 115		
10277.2073.0	Multiparva 3.0 F 150		

MULTIPARVA 3.0 F



Technical data

DESCRIPTION		M158HE.115/F	M158HE.150/F
General			
Fuel		G20 (20 mbar)) - G31 (37 mbar)
Country of destination		IT,	ALIA
Category		2	2H3P
Туре		B23, C13, C33, C43,	, C53, C63, C83, C13X
Max nominal heat input (Qn)	kW	115,0	150,0
Min nominal heat input (Qmin)	kW	20	20
Nominal output power (80-60°C)	kW	112	146,1
Minimum output power for heating (80-60°C)	kW	19,0	19,2
Nominal output power (50-30°C)	kW	121,0	154,5
Minimum output power for heating (50-30°C)	kW	21	20,7
Performances			
Efficiency measured at nominal heat input (80-60°C)	%	97,4	97,4
Efficiency measured at minimum heat input (80-60°C)	%	95,1	96,2
Efficiency measured at nominal heat input (50-30°C)	%	105,2	103
Efficiency measured at minimum heat input (50-30°C)	%	105,2	103,4
Efficiency measured at 30% of the load (30°C)	%	108,2	108,3
Max gas consumption G20	m³/h	12,2	15,5
Min gas consumption G20	m³/h	2,1	2,1
Max gas consumption G31	m³/h	4,5	6
Min gas consumption G31	m³/h	0,8	0,8
Performances UE 813/2013			
η1	%	87,6	87,6
η4	%	97,4	97,5
Emissions			
Flue temperature measured at nominal heat input (80-60°C)	°C	65	5-80
Flue temperature measured at minimum heat input (80-60°C)	°C	55	5-65
Flue temperature (50-30°C) max/min	°C	35	5-50
Condensate production measured at nominal heat input	l/h	18	22,5
Flue max flow at nominal heat input	kg/sec	0,054	0,069
Flue max flow at minimum heat input	kg/sec	0,010	0,010
CO2 min/max (G20)	%	8,9/9,1	8,9/9,4
CO2 min/max (G31)	%	9,6/9,9	9,6/10,2
CO at nominal heat input (G20)	ppm	108	210
CO at nominal heat input (G31)	ppm	91	160
NOx	mg/kWh	29	47
NOx class			6
Electrical data			
Electronic power consumption @ 20°K	W	280	540
Power supply voltage	V~Hz	230V	/ - 50Hz
Protection rating		IP	X4D
Boiler			
Max working pressure	bar		6
Safety valve calibration (model /PV only)	bar		5,4
Maximum operating temperature	°C		85
Max \Dt delivery-return	-0	4.7	35
Water flow rate it nominal (20°C)	m³/n	4,/	0,4
Content of exchanger water	I	10,1	10,1
Residual nead at .tnom=20°K	MH2U	8,1	4,
Chimpey connection exhaust (air in lat	100 ID-	100	2/100
Unimitiev connection exhaust/air Inlet	mm	150/125	200/100
Residual air/flue pressure available (Ø100/80) (G20)	Pa	150/135	200/180
Residual air/fille pressure available (Ø100/80) (G31)	Ра	150/135	200/180
	100 ID-		-00
Wiutii	mm 	6	
	mm	Ę	0//
neight	11111 ka	109	100
weight	ку	100	IUX

MMI remote control

Simple MMI is a remote user interface (or ambient unit) equip- ped with an OpenThem[®] communication protocol which is designed to control the boiler (remote control) and the zones in which it is installed (chronothermostat with weekly set- tings).

Thanks to two-way communication with the boiler, the Simple MMI module lets the user check/set the temperature of the heating water and the DHW without having to go to the boiler plant.

Functional features

The Simple MMI is a remote control for boilers with a weekly time program.

The main features are:

- Weekly programming clock
- Automatic or manual operating mode
- Activation/deactivation of DHW and heating (radiators)
- Display of ambient temperature and time
- "Smart Shower" function which allows the temperature of the DHW to
- be set at the required level for a set time
- Display of boiler settings
- Two-way communication with the boiler via the OpenTherm[®] protocol.

Display of system information

- Each time the knob K4 is pressed, the following system information is displayed in a cycle:
- Temperature outside the building (simple display, only if connected to the relative sensor)
- Temperature set for the water in the heating system (turn the knob K4 to modify the set value)
- Temperature set for the hot water in the DHW system (turn the knob K4 to modify the set value). This is the
- default temperature when the "Smart Shower" function is not active Actual temperature of the water in the heating system (simple display)
- Actual temperature of the hot water in the DHW system (simple display)
- Ambient temperature (simple display).



Plant standard schemes

Schematic diagram of centralised system with single boiler, heating with metering, DHW produced by boiler + solar thermal.



- Bo Single-coil water heater
- BoSol Single-coil solar water heater
- CDat Data concentrator
- CLF Cold water meter (litres)
- CoR Remote control
- CR Heating system pump
- CRS DHW recirculation system
- pump
- CS Solar collector
- CtA Ambient chrono-thermostat
- D Separator

INAIL safety unit

GI

- Gen Gas combination heat generator
- MC Module for metering heating, DHW and Cold Water
- MCC Central plant heat meter
- NC Acidic water passivator
- SB Water heater probe
- SC Condensate drain
- SE External probe
- SP Panel probe

- UG lectronic control unit and hydraulic unit
- VDe 3-way diverter valve
- VDeS 3-way DHW diverter valve
- VER Heating expansion vessel
- VES DHW expansion vessel
- VESol Solar expansion vessel
- VIC Fuel shut-off valve
- VMix DHW mixing valve
- VS Safety valve
- VSB Water heater safety valve

Accessories

Accessories for Multiparva 3.0 / single installation



MULTIPARVA 3.0 WALL MOUNTED LOW EMISSION GAS-FIRED BOILER



	Product	Description		Product		Description	
	10999.0642.0			10999.1126.1			
		Roof extension kit DN 80				100/100 split to coax adaptor kit	
	10999.0641.0						
		Terminal kit DN 80	LLO	10999.3417.0		External probe	
	10999.0638.0		ROI				
		500 mm extension kit DN 80	ORI DI CONT	10999.3429.0		Probe kit for external tank	
	10999.0644.0		ESS				
		1000 mm extension kit DN 80	ACCI	10999.1296.0		Professional MMI remote kit	
	10999.0727.0						
		45° curve kit DN 100	KIT TR Code	ASFORMAZIONE METANO - GPL		iPL iption	
	10999.0739.0		10999	.1408.0	Natural Gas - LPG kit for 70 KW version		
ECTOR		87° curve kit DN 100	10999 10999 10999	0.1409.0 0.1410.0 0.1411.0	Natural Gas - LPG kit for 95 kW version Natural Gas - LPG kit for 110 KW version Natural Gas - LPG kit for 115-150 KW version		
S DI	10000 0741 0						
ATIN	10555.0741.0						
HE	Inspection curve kit DN 100				II / SR model		
			10999.1057.0		Kit fo	Kit for single SR boiler separator	
	10999.0879.0		10999	.1055.1 Boile		r plant structure kit	
			10999.0725.0		Cond	Condensate neutraliser kit from 35 to 150	
		500 mm extension kit DN 100	10999	.3417.0	7.0 External probe kit		
	10999.1087.0						
	1000 mm extension kit DN 100	STANDARD INSTALLATION KIT / SV model					
		1000 mm extension kit DN 100		Code		Description	
			10999	.1058.0	Kit fo	r single SR boiler separator	
	10999.1219.0		10999	.1055.1	Boile	Boiler plant structure kit	
	0		10999.0725.0		Condensate neutraliser kit from 35 to 150		
	Terminal kit DN 100	Terminal kit DN 100	10999.3417.0		Rem	External probe kit	
			13777.3727.0		nemote tank probe kit		
	10999.0614.0						
	Pipe + exhaust inspection kit DN 100	CAFE					
		Code	T DEVICES - 'INAIL'QUA	Desc	ription		
	0				C C		
	10999.0600.0		10999	.0485.0	Safet 45-70	batety valve qualified 4 bar 1/2"G x 3/4"G for versions 35 - 15-70 KW	
		Roof extension kit DN 100	10999	.0486.0	Safet 95-11	y valve qualified 5.4 bar 1/2″G x 3/4″G for versions I0-150 KW	

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