

WALL - WALL M BOILERS

MODULAR BOILER, PASSING FLAME, PREMIXED BURNERS

Nominal pressure 4bar

EFFICIENCY



Main features

WALL condensing boiler, with both European and Italian Patent designed by ICI Caldaie for high power in contained spaces.

Particular boiler geometry together with large heat exchange surfaces allow considerable fume temperature reduction resulting in 109% efficiency achievement (referring to PCI and Temp. Delivery/Return 50/30 °C). Latest concept burner, 20% to 100% Nominal Power pre-mix flame modulation. Reduced environmental impact achieved by under 10 ppm NOx emissions.

Some of the product's main features are related below:

- Large Combustion Chamber, passing flame with dry and low thermal load reversal chamber
- Crossed groove, W stainless steel, high concentration fume duct
- Reverse double slope structure for condensate integral recovery, high and low temperature double return.
- Parts in contact with combustion products - combustion chamber and gas plates - are entirely made out of AISI 316 Ti titanium stabilized stainless steel.
- Cascade operation in advance setup with 125 kW and 150 kW modules having a maximum of 4 boilers, reaching a maximum power of 600 kW reached using condensing operation.
- Modulating gas burners with total gas pre-mix, heat radiating cylindrical body, low NOx emission (below 10 ppm)
- 20 to 100% maximum power adjustment.
- 109% COP (coefficient of performance), 50/30°C boiler water temperature
- Each module is equipped with a digital control panel for burner modulation management and climatic compensation for fluctuating temperature.
- AISI 316 L STAINLESS STEEL external casing, internally insulated with high density, thick mineral wool mattress.
- IPX4D protection

Standard equipment:

- Delivery hydraulic collectors, high-low temperature dual return
- INAIL security devices
- Combustion gas collector
- Gas collector
- Cascade climatic regulator ϕ **eterm**[™]
- Operational with methane and GPL
- Delivery collector probe (in presence of 2 or more modules)
- Control panel ϕ **eterm**[™] equipped with:
 - Main switch
 - Manual or Automatic burner operation switch
 - Regulating bithermostat
 - Safety thermostat
 - Thermometer
 - Microprocessor board
 - Boiler probe
 - External probe (only for master control panel)
 - GSM modem

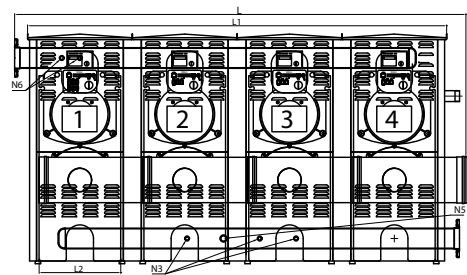
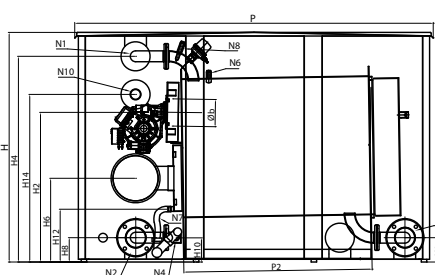
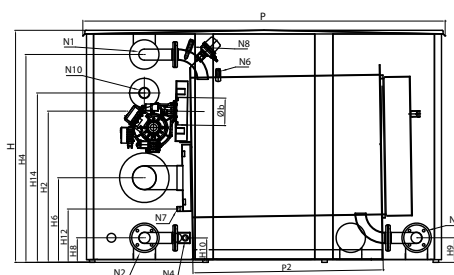
Accessories	Code
Acid condensate Neutralizer system	
Neutralizer	81020001
Neutralizer with pump	81020002
System management control panel ϕ eterm [™]	QETERM02
For characteristics and other accessories see " ϕ eterm [™] system" section	

For each product always indicate the code at the time of the order.

COMMERCIAL RANGE

MODULAR, CONDENSING

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Legend:

N1 Delivery connection
N2 Low temperature return
N3 Equipment connections

N4 System drain connection
N5 Safety valve connection
N6 Bulb pocket
N7 Boiler condensate drain

N8 Control cover
N9 Medium temperature return
N10 Gas connection

Characteristics	N. Box	Effective capacity		Flow Thermal kW	Efficiency 100% (ref. C.O.P)		Efficiency 30% Temp. Flow/Return 50°/30°C kW	Pressure drop flue gas mbar	Pressure drop hydraulic (ΔT=12°C) mbar	Available residual hydraulic head of the exhaust mbar	Volume H ₂ O lt
		Temp. Medium 70°C kW	Temp. Flow/Return 50°/30°C kW		Temp. Medium 70°C %	Temp. Flow/Return 50°/30°C %					
Model											
WALL 125 / 125 M	1	113,4	124	115,3	98,3	107,5	109	2,4	20	0,5	220
WALL 150 / 150 M	1	137,2	150	139,5	98,3	107,5	109	3,4	30	0,5	220
WALL 250 / 250 M	2	226,8	248	230,7	98,3	107,5	109	2,4	5	0,5	440
WALL 300 / 300 M	2	274,3	300	279,1	98,3	107,5	109	3,4	7	0,5	440
WALL 375 / 375 M	3	340,2	372	346,0	98,3	107,5	109	2,4	11	0,5	660
WALL 450 / 450 M	3	411,5	450	418,6	98,3	107,5	109	3,4	17	0,5	660
WALL 500 / 500 M	4	453,6	496	461,4	98,3	107,5	109	2,4	20	0,5	880
WALL 600 / 600 M	4	548,7	600	558,1	98,3	107,5	109	3,4	30	0,5	880

Dimensions	Code product	Weight	H	H2	H4	H6	H8	H9	H10	H12	H14	L	L1	L2	P	P2	Øb	Øc	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10
Model		kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	DN/in	DN/in	DN/in	DN/in	DN/in	DN/in	DN/in	DN/in	DN/in	
WALL 125	81029125	250	1265	820	1130	455	130	130	130	285	920	795	577,6	450	1975	1038	150	125	50	50	1/4"3/8"	3/4"	1/2"	1/2"	3/4"	1/2"	50	25
WALL 150	81029150	250	1265	820	1130	455	130	130	130	285	920	795	577,6	450	1975	1038	150	125	50	50	1/4"3/8"	3/4"	1/2"	1/2"	3/4"	1/2"	50	25
WALL 250	81029250	500	1265	820	1130	455	130	130	130	285	920	1368	1155	450	1975	1038	150	250	100	100	1/4"3/8"	3/4"	1"	1/2"	3/4"	1/2"	100	50
WALL 300	81029300	500	1265	820	1130	455	130	130	130	285	920	1368	1155	450	1975	1038	150	250	100	100	1/4"3/8"	3/4"	1"	1/2"	3/4"	1/2"	100	50
WALL 375	81029375	750	1265	820	1130	455	130	130	130	285	920	1946	1733	450	1975	1038	150	250	100	100	1/4"3/8"	3/4"	1"	1/2"	3/4"	1/2"	100	50
WALL 450	81029450	750	1265	820	1130	455	130	130	130	285	920	1946	1733	450	1975	1038	150	250	100	100	1/4"3/8"	3/4"	1"	1/2"	3/4"	1/2"	100	50
WALL 500	81029500	1000	1265	820	1130	455	130	130	130	285	920	2523	2310	450	1975	1038	150	250	100	100	1/4"3/8"	3/4"	1"	1/2"	3/4"	1/2"	100	50
WALL 600	81029600	1000	1265	820	1130	455	130	130	130	285	920	2523	2310	450	1975	1038	150	250	100	100	1/4"3/8"	3/4"	1"	1/2"	3/4"	1/2"	100	50
WALL 125 M	81029126	335	1335	890	1200	525	200	200	200	355	990	795	577,6	450	1975	1038	150	125	50	50	1/4"3/8"	3/4"	1/2"	1/2"	3/4"	1/2"	50	25
WALL 150 M	81029151	335	1335	890	1200	525	200	200	200	355	990	795	577,6	450	1975	1038	150	125	50	50	1/4"3/8"	3/4"	1/2"	1/2"	3/4"	1/2"	50	25
WALL 250 M	81029251	660	1335	890	1200	525	200	200	200	355	990	1368	1155	450	1975	1038	150	250	100	100	1/4"3/8"	3/4"	1"	1/2"	3/4"	1/2"	100	50
WALL 300 M	81029301	660	1335	890	1200	525	200	200	200	355	990	1368	1155	450	1975	1038	150	250	100	100	1/4"3/8"	3/4"	1"	1/2"	3/4"	1/2"	100	50
WALL 375 M	81029376	985	1335	890	1200	525	200	200	200	355	990	1946	1733	450	1975	1038	150	250	100	100	1/4"3/8"	3/4"	1"	1/2"	3/4"	1/2"	100	50
WALL 450 M	81029451	985	1335	890	1200	525	200	200	200	355	990	1946	1733	450	1975	1038	150	250	100	100	1/4"3/8"	3/4"	1"	1/2"	3/4"	1/2"	100	50
WALL 500 M	81029501	1300	1335	890	1200	525	200	200	200	355	990	2523	2310	450	1975	1038	150	250	100	100	1/4"3/8"	3/4"	1"	1/2"	3/4"	1/2"	100	50
WALL 600 M	81029601	1300	1335	890	1200	525	200	200	200	355	990	2523	2310	450	1975	1038	150	250	100	100	1/4"3/8"	3/4"	1"	1/2"	3/4"	1/2"	100	50

Maximum operating pressure 4bar.

Gas supply pressure: 20 mbar for in motion gas