

# COMPACT - COMBI COMPACT

Hanging boilers, premixed, condensing modulating for heating and DHW production



Model	Thermal flow kW	Thermal Power kW	Code	€
<b>COMPACT 12 (hot only)</b>	3,5÷11,7	4,0÷13,3	<b>30400021</b>	<b>2.170,00</b>
<b>COMPACT 22 (hot only)</b>	6,3÷21,4	7,2÷24,6	<b>30400016</b>	<b>2.200,00</b>
<b>COMPACT 35 (hot only)</b>	7,4÷33,5	8,7÷38,6	<b>30400015</b>	<b>2.430,00</b>
<b>COMBI COMPACT 24/20 (hot + DHW)</b>	6,9÷20,1	7,9÷23,3	<b>30400018</b>	<b>2.380,00</b>
<b>COMBI COMPACT 32/26 (hot + DHW)</b>	7,0÷26,2	8,0÷30,3	<b>30400019</b>	<b>2.530,00</b>
<b>COMBI COMPACT 32/35 (hot + DHW)</b>	7,4÷33,5	8,7÷38,6	<b>30400020</b>	<b>2.800,00</b>

## Boiler accessories COMPACT - COMBI COMPACT



### CONTAINMENT CONTAINER WALL INSTALALTION

for the recessed solution, made of galvanized sheet, provided of bracket for positioning the thermal generator and preparing holes for flue gas discharge and combustion air passage, both on the upper side than the side ones. Recessed frame dimensions 1253 x 300 x 578 (H - P - L)

**30403050 272,00**

### BUILT-IN CLOSING PANEL

**30403051 66,00**

### OPENTHERM CHRONOTHERMOSTAT WITH REMOTE CONTROL

#### COMPACT 35 e COMBI COMPACT 32/35

4 thermoregulation modes with climatic regulation of the system heating by means of an external probe.

- Weekly programming with 4 temperature levels
- Daily time slots viewable by graph
- Management of the hot water temperature
- Display of boiler fault status

**30403052 198,00**

- Temperature control class according to (UE) n. 811/2013:  
Class 1, in ON / OFF mode, Class 5, in operation  
modulating, Class 6, in operation with external probe















### GSM MODEM KIT WITH ANTENNA

**30403053 578,00**








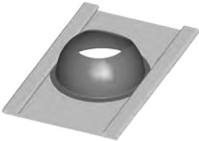




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Boiler accessories COMPACT - COMBI COMPACT		Code	€
	External probe for detecting outdoor temperature, to be connected to the heat generator for operation in climate curve	<b>30403054</b>	<b>42,00</b>
	Carter in painted sheet for covering and protection lower fittings of the heat generator	<b>30403055</b>	<b>50,00</b>
	<b>mod. COMBI COMPACT</b>	<b>30403056</b>	<b>24,00</b>
	<b>mod. COMPACT 12</b>	<b>30403057</b>	<b>24,00</b>
	<b>mod. COMPACT 22 - 35</b>	<b>30403058</b>	<b>24,00</b>
	90° bend Ø 80 mm M F	<b>30403059</b>	<b>16,00</b>
	Curve 45° Ø 80 mm M F	<b>30403060</b>	<b>16,00</b>
	<b>Ø 80 mm tube, M F L = 250 mm</b>	<b>30403061</b>	<b>15,00</b>
	<b>Ø 80 mm tube, M F L = 500 mm</b>	<b>30403062</b>	<b>16,00</b>
	<b>Ø 80 mm tube, M F L = 1000 mm</b>	<b>30403063</b>	<b>24,00</b>
	Nylon suction grille Ø 80 mm	<b>30403064</b>	<b>10,00</b>
	Terminal for horizontal discharge in steel Ø 80 mm	<b>30403065</b>	<b>14,00</b>
	Terminal for vertical discharge in steel Ø 80 mm	<b>30403066</b>	<b>30,00</b>
	Wall cover in rubber Ø 80 mm	<b>30403067</b>	<b>10,00</b>
	PPS flexible flue pipe Ø 60 mm	<b>30403068</b>	<b>24,00</b>
	PPS flexible flue pipe Ø 80 mm	<b>30403069</b>	<b>26,00</b>
	Fitting with brass cap for fume extraction	<b>30403070</b>	<b>6,00</b>
	Reduction in PPS from Ø 80 mm M to Ø 60 mm F with smoke outlet	<b>30403071</b>	<b>50,00</b>
	Trunk with flue outlet Ø 80 mm	<b>30403072</b>	<b>25,00</b>

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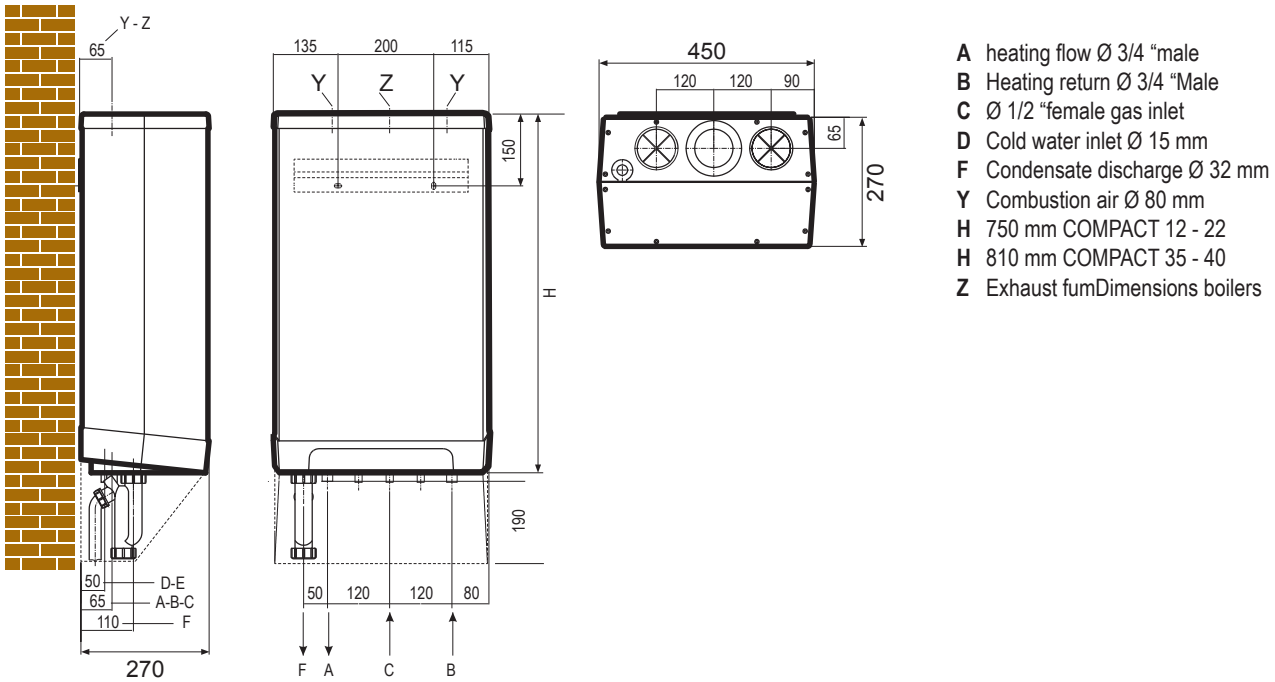
Hanging boilers, premixed, condensing modulating for heating and DHW production

Boiler accessories COMPACT - COMBI COMPACT		Code	€	
	Coaxial starting point with fume analysis sockets Ø 80/125 mm L = 150 mm OBLIGATORY	30403073	150,00	
	Reduction 80/125 - 60/100	30403074	98,00	
	Curve 90° Ø 80/125 mm	30403075	64,00	
	Curve 45° Ø 80/125 mm	30403076	46,00	
	Coaxial horizontal roof terminal Ø 80/125 mm L = 850 mm composed of: - Coaxial extension L = 850 mm - External and internal hole cover rosette - Terminal for smoke evacuation	30403077	106,00	
	Mouldable aluminum tile for vertical terminal	30403078	90,00	
	Vertical coaxial roof terminal Ø 80/125 mm L = 1060 mm	30403079	138,00	
	Linear tube Ø 80/125 mm M F	L = 250 mm	30403080	36,00
		L = 500 mm	30403081	46,00
		L = 1000 mm	30403082	74,00
		L = 1500 mm	30403083	100,00
		L = 2000 mm	30403084	120,00
	Magnetic dirt separator filter Ø 3/4"	30403085	218,00	
	Installation boiler kit with spacer frame and connection fittings angled	mod. COMPACT 12 - 24	30403086	330,00
		mod. COMPACT 32 - 24	30403087	342,00

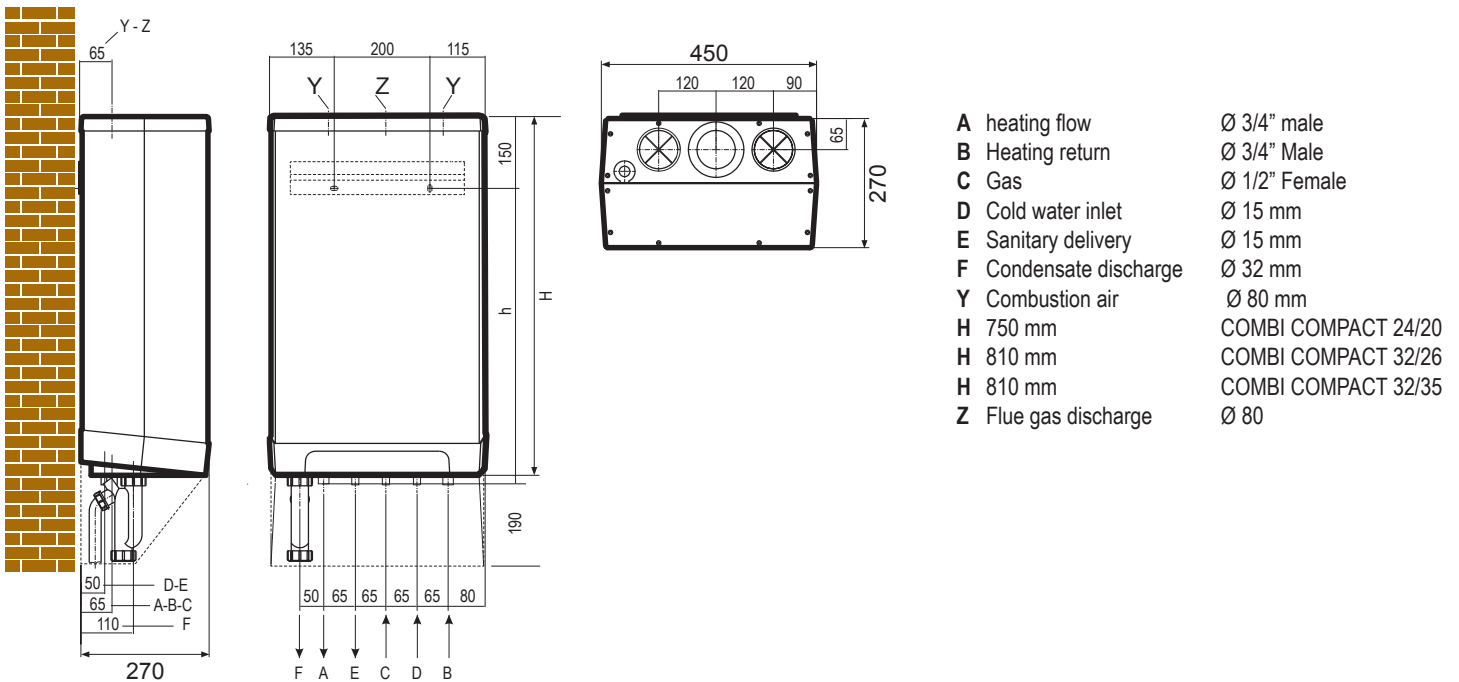
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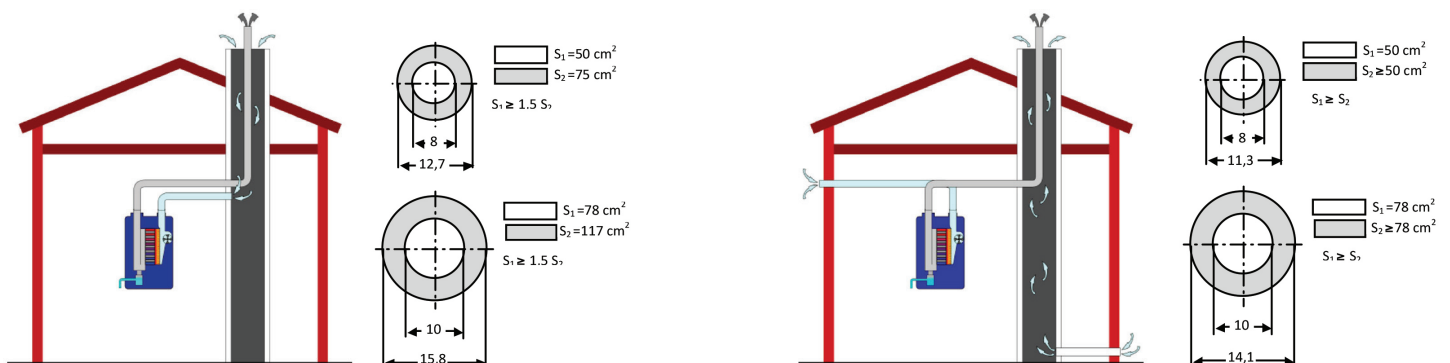
## COMPACT 12 - 22 - 35 boilers dimensions



## COMBI COMPACT 24/20 - 32/26 - 32/35 boilers dimensions



## Example of positioning with single positive pressure ducting COMBI - COMBI COMPACT



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Hanging boilers, premixed, condensing modulating for heating and DHW production

## Technical data table for COMPACT 12 - 22 - 35 boilers

DESCRIPTION	U.M.	COMPACT 12	COMPACT 22	COMPACT 35
Thermal flow rate to the firebox on P.C.S. min and max power	kW	4,0 - 13,3	7,2 - 24,6	8,7 - 38,6
Thermal flow rate to the firebox on P.C.I. min and max power	kW	3,6 - 12,0	6,5 - 22,1	7,8 - 34,8
Nominal heat output 80/60 ° C min and max power	kW	3,5 - 11,7	6,3 - 21,4	7,4 - 33,5
Nominal heat output 50/30 ° C min and max power	kW	3,9 - 12,4	6,9 - 21,7	8,1 - 34,2
Energy efficiency marking 92/42 EEC			☆☆☆☆	
Rated efficiency (80/60 ° C) at max power	%	97,7	96,6	96,3
Rated efficiency (50/30 ° C) at max power	%	102,0	98,5	98,6
30% yield	%	108,0	109,0	106,6
100% combustion efficiency	%		98,2	
30% combustion efficiency	%		98,7	
Leak in the fireplace with burner turned on 100%	%		1,8	1,9
Leak in the fireplace with burner turned on at 30%	%		0,7	0,9
Leak in the fireplace with burner off	%		0,0	
Cloak loss with 100% switched on burner	%		0,3	0,4
Loss in the mantel with burner turned on at 30%	%		0,1	0,2
Loss in the mantel with burner off	%		0,0	
Maximum combustion gas temperature max power 80/60 ° C	°C		95	90
Flue gas temperature at minimum power 50/30 ° C	°C		37	
Full load (wet) combustion products flow rate	Kg/h	19,8	36,7	57,8
Residual pressure of combustion products at the exhaust	Pa		70	120
Fume exhaust and combustion air diameter	mm		80	
Maximum exhaust fumes length + combustion air Ø 80 mm	m		50	85
Maximum flue outlet length + combustion air Ø 60 mm	m		20	25
Max coaxial fume discharge length Ø 125 / Ø 80 mm	m		20	25
NOx Class			5	
NOx emissions methane gas G20 (n = 1)	mg/kWh		50	53
Emissions CO methane gas G20 (n = 1) at min and max power	mg/kWh	37 - 41	28 - 86	40 - 128
CO2 content with open mantle min and max power	%		8,6 - 9,6	
CNG supply pressure (G20)	mbar		20	
Natural gas consumption (G20) at min and max power	m³/h	0,40 - 1,25	0,78 - 2,35	0,80 - 3,60
Propane supply pressure (G31)	mbar		37	
Consumption of propane gas (G31) at max power	kg/h	0,95	1,67	2,70
Power supply			230V/1/50Hz	
Max absorbed electrical power	W		80	135
Electric power absorbed in standby	W		2,4	
Electric pump max speed power	W		50	80
Degree of electrical protection			IP44	
Min and max working pressure	bar		0,5 - 3,0	0,8 - 4,0
Min and max working temperature	°C		30 - 90	
Expansion vessel capacity	l		6	
Delivery and heating return pipe connections	mm		Ø 22 x 3/4"	
Gas piping connections	mm		Ø 15 x 1/2"	
Internal anti-recirculation caplet combustion products			NO	SI
Net weight	Kg		34	39

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**Technical data table for COMBI COMPACT 24/20 - 32/36 - 32/35**

DESCRIPTION	U.M.	COMBI COMPACT 24/20	COMBI COMPACT 32/26	COMBI COMPACT 32/35
Thermal flow rate to the firebox on P.C.S. (heat power top) min and max power	kW	7,9 - 23,3	8,0 - 30,3	8,7 - 38,6
Thermal flow rate to the firebox on P.C.I. (heat power bottom) min and max power	kW	7,1 - 21,0	7,2 - 27,3	7,8 - 34,8
Nominal heat output 80/60 °C min and max power	kW	6,9 - 20,1	7,0 - 26,2	7,4 - 33,5
Nominal heat output 50/30 °C min and max power	kW	7,5 - 20,5	7,7 - 26,8	8,1 - 34,2
Nominal heat output for DHW production	kW	7,1 - 28,5	7,8 - 32,7	7,8 - 32,7
Energy efficiency marking 92/42 EEC			☆☆☆☆	
Rated efficiency (80/60 °C) at max power	%	95,8	95,9	96,3
Rated efficiency (50/30 °C) at max power	%	98,3	98,2	98,6
30% yield	%	108	108	106,6
100% combustion efficiency	%		98,2	
30% combustion efficiency	%		98,7	
Leak in the fireplace with burner turned on 100%	%		1,8	
Leak in the fireplace with burner turned on at 30%	%		0,7	
Leak in the fireplace with burner off	%		0,0	
Cloak loss with 100% switched on burner	%	0,3	0,3	0,4
Loss in the mantel with burner turned on at 30%	%	0,1	0,1	0,2
Loss in the mantel with burner off	%		0,0	
Maximum combustion gas temperature max power 80/60 °C	°C	95	95	90
Flue gas temperature at minimum power 50/30 °C	°C		37	
Full load (wet) combustion products flow rate	Kg/h	34,8	45,4	57,8
Residual pressure of combustion products at the exhaust	Pa	88	90	120
Fume exhaust and combustion air diameter	mm		80	
Maximum exhaust fumes length + combustion air Ø 80% mm	m	60	60	85
Maximum exhaust fumes length + combustion air Ø 60% mm	m	20	20	25
NOx Class			5	
NOx emissions methane gas G20 (n = 1)	mg/kWh	58	32	50
Emissions CO methane gas G20 (n = 1) at min and max power	mg/kWh	27 - 92	20 - 90	40 - 128
CO2 content with open mantle min and max power	%		8,6 - 9,6	
CNG supply pressure (G20)	mbar		20	
Natural gas consumption (G20) at min and max power	m <sup>3</sup> /h	0,68 - 2,75	0,75 - 3,50	0,80 - 3,90
Propane supply pressure (G31)	mbar		37	
Consumption of propane gas (G31) at max power	kg/h	1,95	2,50	2,70
Power supply			230V/1/50Hz	
Max absorbed electrical power	W	80	80	135
Electric power absorbed in standby	W		2,4	
Electric pump max speed power	W	50	50	80
Degree of electrical protection			IP44	
Min and max pressure for heating operation	bar	0,5 - 3,0	0,5 - 3,0	0,8 - 4,0
Min and max working pressure for domestic hot water	bar		2,0 - 8,0	
Min and max working temperature	°C		30 - 90	
Expansion vessel capacity	l		6	
DHW supply at 45 °C with ΔT 35 °C	l/min	11,6	13,3	13,3
DHW supply at 55 °C with ΔT 45 °C	l/min	9,1	10,4	10,4
Min and max DHW supply temperature	°C		40 - 65	
Flow switch calibration for domestic hot water production	l/min		2	
Delivery and heating return pipe connections	mm		Ø 22 - 3/4"	
Cold water, DHW and gas pipe connections	mm		Ø 15 - 1/2"	
Internal anti-recirculation caplet combustion products		NO	NO	SI
Net weight	Kg	36	39	39