

MOTAN

WALL HUNG GAS BOILERS



PRODUCT CATALOG

the NEW

MOTAN
WALL HUNG GAS BOILERS

the comfort instinct

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MOTAN.ROMANIA

MOTAN

WALL HUNG GAS BOILERS



KÖBER LTD DUMBRAVA ROSIE Vaduri head office, producer of MOTAN wall hung gas boilers is a Romanian company, part of KÖBER group, a very powerful industrial group, with good quoted trading values.

Köber Group aims at coming closer to customers understanding their needs and finding the proper solution for them. Knowing our clients needs, we are investing heavily in research and development to assure a large product portfolio of high quality. Köber Group has a large range of combination boilers, made with the best materials and in accordance with the highest standards in the industry. Boilers can be either condensing or conventional.

Delivering heat and hot water to many customers across world, Köber Group works with every part of the supply chain-wholesalers, installers, specifiers, utility companies and the end-user customer in their homes and businesses.

For installers and specifiers we also provide outstanding training and technical back-up. KÖBER Group trains installers from different countries. Our spare parts network is also an important customer support. For end user customers we provide excellent warranty programmes and after sales service.

The system of the quality management introduced in our company is certified according to ISO 90001:2015 Standard by the DNV GL certification body. Maintaining this standard of quality at excellent levels is the driving force behind every phase of the company process.

All types of wall hung gas boilers MOTAN mark have "CE" type examination certificate with free circulation in the European Community.



CE 2726



Environmental protection

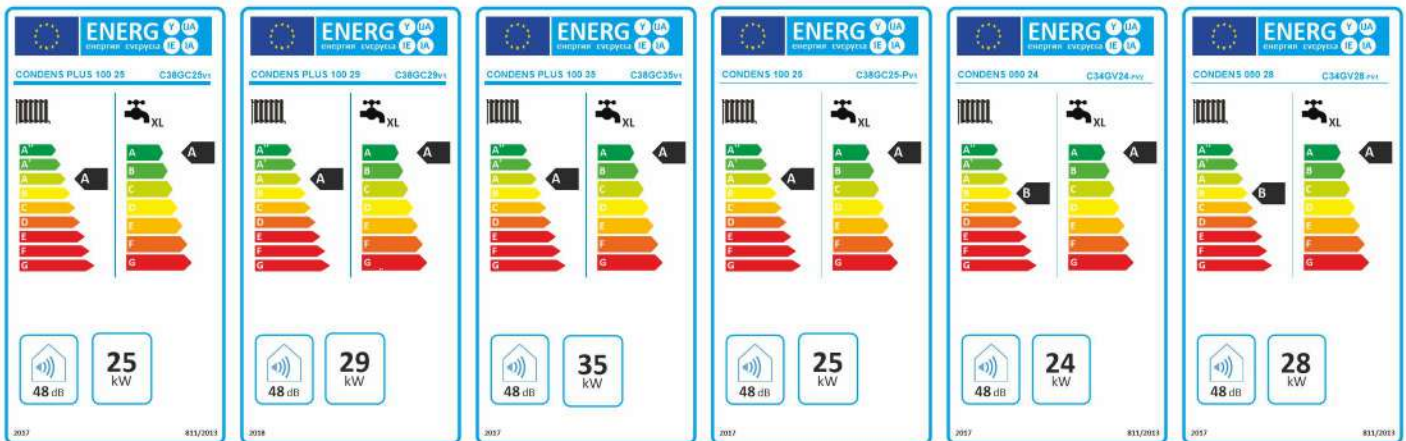
We make constant efforts for environmental protection.

Following the Kyoto Protocol, the European Community has imposed the implementation known as climate target 20 -20 -20 - European Energy Plan.

Explained, this objective aims 20% reduction in exhaust emissions with greenhouse effect , of reduction with 20% of

electricity consumption and 20% of the insurance of European energy coming from renewables.

Thus, MOTAN condensing wall hung gas boilers - CONDENS 100 PLUS and CONDENS 100 models meets the requirements of the Commission Regulation (EU) no 811-814/2013, implementing Directive 2009/125/EC of the European Parliament and of the Council.



Currently, boilers that are produced by KOBER Ltd Vaduri Branch, are sold in 17 countries, around the globe. The export sales are an important component in our long-term development strategy.

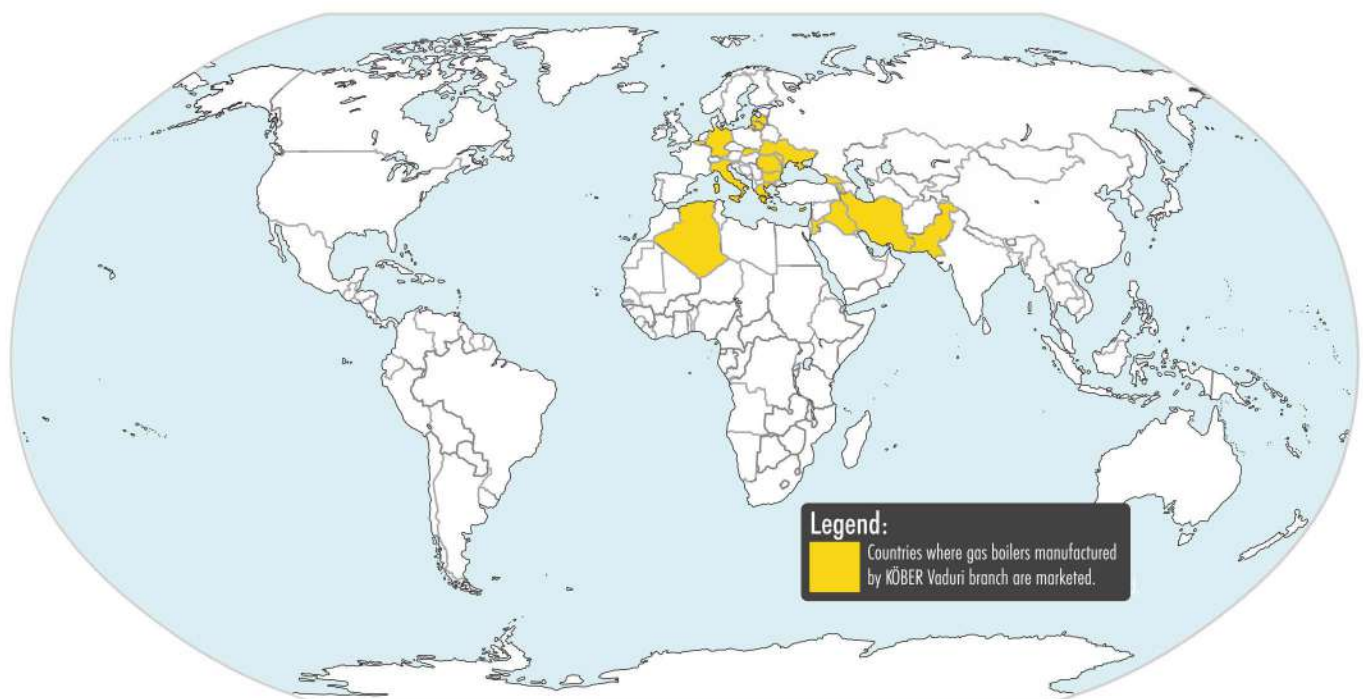
Romania;
Italy;
Germany;
Rep. Moldova;

Belgium;
Bulgaria;
Greece;

Slovakia;
Georgia;
Ukraine;

Latvia;
Lithuania;
Jordan;

Armenia;
Algeria;
Iran;
Pakistan;



Product code: C38GC25V1

CONDENSING WALL HUNG GAS BOILER, 25 kW
New CONDENS series - HIGH-TECH condensing technology

HIGH-TECH look
- glass front panel (touch screen) with 4.3 inch display

BRONZE
hydroblock and stainless steel pipes

Up to 106% efficiency and 1:10 modulation ratio

High comfort on DHW circuit - **OVERSIZED** secondary heat exchanger

CE 2726₂₁

A class efficiency-

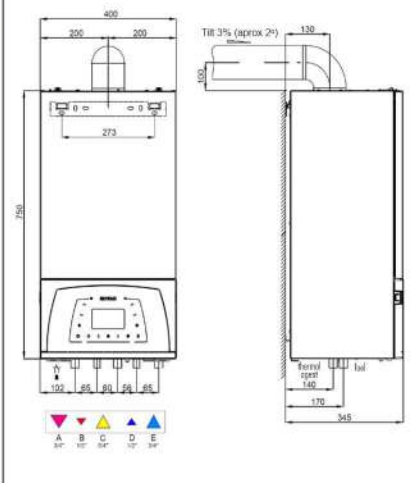
- 4 stars ★★★★★
(dir. 92/42/CEE)

Domestic Hot Water comfort -

- 3 stars ★★★★★
(EN 13203)

NOx CLASS 5

Dimensions and mounting positions:



Front panel - touch screen

CLIENT ADVANTAGES:

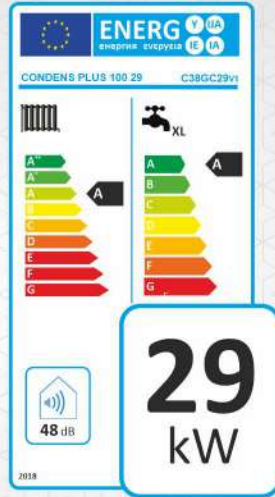
- HIGH-TECH look - glass front panel (touch screen) with 4.3 inch display (visible area) ;
- Up to 106% efficiency and 1:10 modulation ratio;
- Friendly environment - during operation releases significantly reduced amounts of NOx, CO and CO2 - Class NOx 5;
- High comfort on DHW circuit - **OVERSIZED** secondary heat exchanger;
- Designed and build for maximum operating efficiency and economy according to the latest European legislative requirements;
- **STAINLESS STEEL** primary heat exchanger;
- The possibility of connecting a chrono-thermostat, remote control panel and/or external temperature probe;

Product code: C38GC29V1



CONDENSING WALL HUNG GAS BOILER, 29 kW

New CONDENS series - HIGH-TECH condensing technology



HIGH-TECH look
- glass front panel
(touch screen)
with 4.3 inch display

BRONZE
hydroblock and
stainless steel pipes



Up to 106%
efficiency
and 1:10
modulation ratio

High comfort on
DHW circuit -
OVERSIZED secondary
heat exchanger

CE 2726₂₁

A class efficiency-

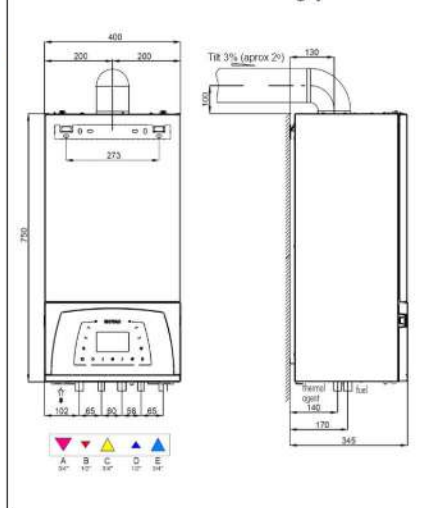
- 4 stars ★★★★★
(dir. 92/42/CEE)

Domestic Hot Water comfort -

- 3 stars ★★★★★
(EN 13203)

NO_x CLASS 5

Dimensions and mounting positions:



Front panel - touch screen

CLIENT ADVANTAGES:

- HIGH-TECH look - glass front panel (touch screen) with 4.3 inch display (visible area) ;
- Up to 106% efficiency and 1:10 modulation ratio;
- Friendly environment - during operation releases significantly reduced amounts of NO_x, CO and CO₂ - Class NO_x 5;
- High comfort on DHW circuit - **OVERSIZED** secondary heat exchanger;
- Designed and build for maximum operating efficiency and economy according to the latest European legislative requirements;
- **STAINLESS STEEL** primary heat exchanger;
- The possibility of connecting a chrono-thermostat, remote control panel and/or external temperature probe;

Technical and functional characteristics

Type	C38GC29V1		
Trade name	CONDENS PLUS		
Efficiency stars (dir. 92/42/CEE)	10029 ****		
Gas category to be used	G20-I2H		
Flue type	Forced, variable speed fan		
Nox class (G20-I2H, G24, G25.1, G31)	5		
Heating energy efficiency class	A		
Max power (80/60°C)(G20-I2H)	28.3 kW		
Max power (50/30°C - condensing)(G20-I2H)	32.4 kW		
Output performance at nominal heat input (80/60°C)(G20-I2H)	97%		
Output performance at nominal heat input (50/30°C - condensing)(G20-I2H)	106%		
Max gas nominal consumption	≈3 Nm ³ /h		
Gas pressure (G20-I2H)	20 mbar		
Gas pressure (GN)	35 mbar		
Maximum pressure on CH circuit	0,8 ÷ 3 bar		
Temperature adjustment interval CH	30 ÷ 80°C		
Temperature adjustment interval underfloor	15 ÷ 45°C		
Maximum pressure on the hot water circuit	0,2 ÷ 8 bar		
Temperature adjustment interval	30 ÷ 55°C		
Hot water flow at ΔT = 30°C (flow restrictor 12l/min)	15.7 l/min		
DHW Confort EN 13203	***		
DHW efficiency class	A, load profile XL		
Constructive features	Height (mm)	750	
	Width (mm)	400	
	Depth (mm)	345	
	Weight	34 kg	
	Primary heat exchanger capacity	1,6 l	
	Connectors	Thermal input, output	3/4"
		Cold water input, hot water output	1/2"
		Gas input	3/4"
	Expansion vessel with membrane	8 l	
	Air/ gas incoming/ outgoing flue pipe	Coaxial D100/D60, Dual D80*	
Length of burnt gases connecting pipe	Coaxial max 20m; Dual max 20m*		
Evacuation type	B ₁₅ , B ₂₁ , C ₁₅ , C ₁₉ , C ₂₅ , C ₃₀ , C ₃₅ , C ₄₀ , C ₄₅ , C ₅₀ , C ₅₅ , C ₆₀ , C ₆₅ , C ₇₀ , C ₇₅ , C ₈₀ , C ₈₅ , C ₉₀		
Flue temp.	≈70°C		
Electrical characteristics	Power	~230VAC/50 Hz	
	Nominal power	81 W	
	Protection class	IP 44	

* The standard gas boiler is delivered with dual coaxial kit as accessory; dual kit is delivered as accessory on demand

The new condensing heat exchanger for the CONDENS PLUS 100 boiler is a single purpose integrated and compact heat exchanger based on a simple stainless steel coil with an oval section. The heat exchanger is composed by a combustion chamber, condensing area and an insulated metallic disk protected with silicon ceramic fiber which separates the two areas. Using single coil, included inlet/outlet connection, to produce the coil, ensure the benefits below:

- Autocleaning - To avoid dirt and debris accumulation, especially in replacement market.
- Flow rate is uniformly distributed in a single pipe ensuring a proper heat transfer. Best performance in water pressure drop;
- Minimum number of components;
- High efficiency and robustness -
- Constant water speed over a long lifecycle
- Stainless Steel - Excellent resistance to corrosion and easily machinable;
- Avoiding welding process

CONDENSING WALL HUNG GAS BOILERS

CONDENS PLUS 100 29 WALL HUNG GAS BOILER INTEGRATE COMPONENTS OF THE BEST QUALITY:

- Condensing heat exchanger Circond - Valmex (Italy);
- Circulation pump GRUNDFOS (Denmark);
- Gas valve SIT (Italy);
- Build-in gas-air nozzle fan SIT (Italy);
- Brass hydroblock Fugas (Italy);
- Safety valve Kramer / Bitron (Italy);

LIST OF ACCESSORIES AND OTHER MOTAN PRODUCTS COMPATIBLE WITH CONDENS PLUS 100 29 BOILER:

- Product name:**
- STORAGE TANK BA120L-V1
 - SMART ROOM THERMOSTAT HT500
 - WIRELESS ROOM THERMOSTAT HT220S SET
 - ROOM THERMOSTAT HT220S
 - CASCADE MODULE KOBER
 - FILTER WITH TRANSFORMER - 3A
 - FILTER WITHOUT TRANSFORMER - 3A
 - FILTER WITHOUT TRANSFORMER - 6A
 - OUTSIDE TEMPERATURE SENSOR N10
 - BOILER TEMPERATURE SENSOR N10
 - COAXIAL EXHAUSTING FLUE 60/100 CT CONDENS
 - DUAL EXHAUSTING FLUE D80 CT CONDENS
 - ROOF VERTICAL EXHAUSTING FLUE 60/100 CT CONDENS
 - ADAPTOR FOR ROOF VERTICAL EXHAUSTING FLUE CT CONDENS
 - EXTENSION 0.5M 60/100 CT CONDENS
 - EXTENSION 1M 60/100 CT CONDENS
 - EXTENSION 1.5M 60/100 CT CONDENS
 - EXTENSION 0.5M D80 CT CONDENS
 - EXTENSION 1M D80 CT CONDENS
 - 90° ELBOW 60/100 EXTENSION CT CONDENS
 - 90° ELBOW D80 EXTENSION CT CONDENS
 - 45° ELBOW 60/100 EXTENSION CT CONDENS

STORAGE TANK BA120L-V1

ROOF VERTICAL EXHAUSTING FLUE CT CONDENS ADAPTOR FOR ROOF VERTICAL EXHAUSTING FLUE CT CONDENS

CASCADE MODULE KÖBER

FILTER WITH TRANSFORMER - 3A

HT220S - ROOM THERMOSTAT

HT220S SET - WIRELESS ROOM THERMOSTAT

FILTER WITHOUT TRANSFORMER - 6A

SMART ROOM THERMOSTAT MOTAN HT500SET

DUAL EXHAUSTING FLUE D80 CT CONDENS

Product code: C38GC35V1



CONDENSING WALL HUNG GAS BOILER, 35 kW
New CONDENS series - HIGH-TECH condensing technology



35 kW

48 dB

HIGH-TECH look - glass front panel (touch screen) with 4.3 inch display

BRONZE hydroblock and stainless steel pipes

Up to 106% efficiency and 1:10 modulation ratio

High comfort on DHW circuit - **OVERSIZED** secondary heat exchanger

CE 2726₂₁

A class efficiency-

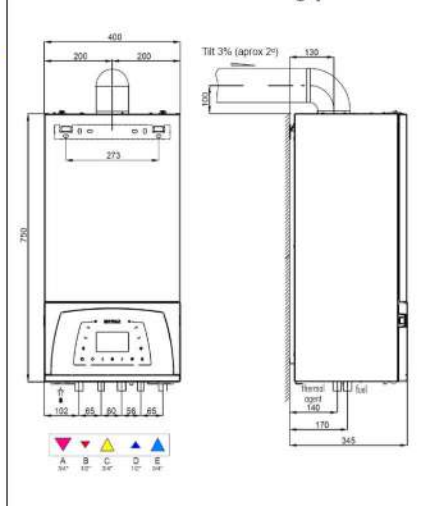
- 4 stars ★★★★★
(dir. 92/42/CEE)

Domestic Hot Water comfort -

- 3 stars ★★★★★
(EN 13203)

NOx CLASS 5

Dimensions and mounting positions:



Front panel - touch screen

CLIENT ADVANTAGES:

- HIGH-TECH look - glass front panel (touch screen) with 4.3 inch display (visible area) ;
- Up to 106% efficiency and 1:10 modulation ratio;
- Friendly environment - during operation releases significantly reduced amounts of NO_x, CO and CO₂ - Class NO_x 5;
- High comfort on DHW circuit - **OVERSIZED** secondary heat exchanger;
- Designed and build for maximum operating efficiency and economy according to the latest European legislative requirements;
- **STAINLESS STEEL** primary heat exchanger;
- The possibility of connecting a chrono-thermostat, remote control panel and/or external temperature probe;

Technical and functional characteristics

Type	C38GC35V1		
Trade name	CONDENS PLUS		
Efficiency stars (dir. 92/42/CEE)	100 35 ****		
Gas category to be used	G20-I2H		
Flue type	Forced, variable speed fan		
Nox class (G20-I2H, G24, G25.1, G31)	5		
Heating energy efficiency class	A		
Max power (80/60°C)(G20-I2H)	32,8 kW		
Max power (50/30°C - condensing)(G20-I2H)	35,8 kW		
Output performance at nominal heat input (80/60°C)(G20-I2H)	97%		
Output performance at nominal heat input (50/30°C - condensing)(G20-I2H)	106%		
Max gas nominal consumption	≈3,5 Nm ³ /h		
Gas pressure (G20-I2H)	20 mbar		
Gas pressure (GN)	35 mbar		
Maximum pressure on CH circuit	0,8 ÷ 3 bar		
Temperature adjustment interval CH	30 ÷ 80°C		
Temperature adjustment interval underfloor	15 ÷ 45°C		
Maximum pressure on the hot water circuit	0,2 ÷ 8 bar		
Temperature adjustment interval	30 ÷ 55°C		
Hot water flow at ΔT = 30°C (flow restrictor 12l/min)	17 l/min		
DHW Confort EN 13203	***		
DHW efficiency class	load profile XL		
Constructive features	Height (mm)	750	
	Width (mm)	400	
	Depth (mm)	345	
	Weight	35 kg	
	Primary heat exchanger capacity	Thermal input, output	3/4"
		Cold water input, hot water output	1/2"
		Gas input	3/4"
	Expansion vessel with membrane	8 l	
	Air/ gas incoming/ outgoing flue pipe	Coaxial D100/D60, Dual D80*	
	Length of burnt gases connecting pipe	Coaxial max 20m; Dual max 20m*	
Evacuation type	B ₃ , B ₃ , C ₁ , C ₁ , C ₂ , C ₂ , C ₃ , C ₃ , C ₄ , C ₄ , C ₅ , C ₅ , C ₆ , C ₆ , C ₇ , C ₇ , C ₈ , C ₈ , C ₉ , C ₉ , C ₁₀ , C ₁₀ , C ₁₁ , C ₁₁ , C ₁₂ , C ₁₂ , C ₁₃ , C ₁₃ , C ₁₄ , C ₁₄ , C ₁₅ , C ₁₅ , C ₁₆ , C ₁₆ , C ₁₇ , C ₁₇ , C ₁₈ , C ₁₈ , C ₁₉ , C ₁₉ , C ₂₀ , C ₂₀ , C ₂₁ , C ₂₁ , C ₂₂ , C ₂₂ , C ₂₃ , C ₂₃ , C ₂₄ , C ₂₄ , C ₂₅ , C ₂₅ , C ₂₆ , C ₂₆ , C ₂₇ , C ₂₇ , C ₂₈ , C ₂₈ , C ₂₉ , C ₂₉ , C ₃₀ , C ₃₀ , C ₃₁ , C ₃₁ , C ₃₂ , C ₃₂ , C ₃₃ , C ₃₃ , C ₃₄ , C ₃₄ , C ₃₅ , C ₃₅ , C ₃₆ , C ₃₆ , C ₃₇ , C ₃₇ , C ₃₈ , C ₃₈ , C ₃₉ , C ₃₉ , C ₄₀ , C ₄₀ , C ₄₁ , C ₄₁ , C ₄₂ , C ₄₂ , C ₄₃ , C ₄₃ , C ₄₄ , C ₄₄ , C ₄₅ , C ₄₅ , C ₄₆ , C ₄₆ , C ₄₇ , C ₄₇ , C ₄₈ , C ₄₈ , C ₄₉ , C ₄₉ , C ₅₀ , C ₅₀ , C ₅₁ , C ₅₁ , C ₅₂ , C ₅₂ , C ₅₃ , C ₅₃ , C ₅₄ , C ₅₄ , C ₅₅ , C ₅₅ , C ₅₆ , C ₅₆ , C ₅₇ , C ₅₇ , C ₅₈ , C ₅₈ , C ₅₉ , C ₅₉ , C ₆₀ , C ₆₀ , C ₆₁ , C ₆₁ , C ₆₂ , C ₆₂ , C ₆₃ , C ₆₃ , C ₆₄ , C ₆₄ , C ₆₅ , C ₆₅ , C ₆₆ , C ₆₆ , C ₆₇ , C ₆₇ , C ₆₈ , C ₆₈ , C ₆₉ , C ₆₉ , C ₇₀ , C ₇₀ , C ₇₁ , C ₇₁ , C ₇₂ , C ₇₂ , C ₇₃ , C ₇₃ , C ₇₄ , C ₇₄ , C ₇₅ , C ₇₅ , C ₇₆ , C ₇₆ , C ₇₇ , C ₇₇ , C ₇₈ , C ₇₈ , C ₇₉ , C ₇₉ , C ₈₀ , C ₈₀ , C ₈₁ , C ₈₁ , C ₈₂ , C ₈₂ , C ₈₃ , C ₈₃ , C ₈₄ , C ₈₄ , C ₈₅ , C ₈₅ , C ₈₆ , C ₈₆ , C ₈₇ , C ₈₇ , C ₈₈ , C ₈₈ , C ₈₉ , C ₈₉ , C ₉₀ , C ₉₀ , C ₉₁ , C ₉₁ , C ₉₂ , C ₉₂ , C ₉₃ , C ₉₃ , C ₉₄ , C ₉₄ , C ₉₅ , C ₉₅ , C ₉₆ , C ₉₆ , C ₉₇ , C ₉₇ , C ₉₈ , C ₉₈ , C ₉₉ , C ₉₉ , C ₁₀₀ , C ₁₀₀		
Flue temp.	≈82°C		
Electrical characteristics	Power	~230VAC/50 Hz	
	Nominal power	81 W	
	Protection class	IP 44	

* The standard gas boiler is delivered with dual coaxial kit as accessory, dual kit is delivered as accessory on demand

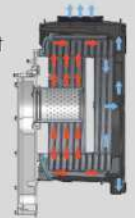
STAINLESS STEEL HEAT EXCHANGER:

The new condensing heat exchanger for the CONDENS PLUS 100 35 boiler is a single purpose integrated and compact heat exchanger based on a simple stainless steel coil with an oval section. The heat exchanger is composed by a combustion chamber, condensing area and an insulated metallic disk protected with silicon ceramic fiber which separates the two areas. Using single coil, included inlet/outlet connection, to produce the coil, ensure the benefits below:

- Autocleaning - To avoid dirt and debris accumulation, especially in replacement market. Flow rate is uniformly distributed in a single pipe ensuring a proper heat transfer. Best performance in water pressure drop.



- Minimum number of components;
- High efficiency and robustness - Constant water speed over a long lifecycle
 - Stainless Steel - Excellent resistance to corrosion and easily machinable;
 - Avoiding welding process



CONDENS PLUS 100 35 WALL HUNG GAS BOILER INTEGRATE COMPONENTS OF THE BEST QUALITY:

- Condensing heat exchanger Circond - Valmex (Italy);
- Circulation pump GRUNDFOS (Denmark);
- Gas valve SIT (Italy);
- Build-in gas-air nozzle fan SIT (Italy);
- Brass hydroblock Fugas (Italy);
- Safety valve Kramer / Bitron (Italy);

LIST OF ACCESSORIES AND OTHER MOTAN PRODUCTS COMPATIBLE WITH CONDENS PLUS 100 35 BOILER:

Product name:

- STORAGE TANK BA120L-V1
- SMART ROOM THERMOSTAT HT500
- WIRELESS ROOM THERMOSTAT HT220S SET
- ROOM THERMOSTAT HT220S
- CASCADE MODULE KOBER
- FILTER WITH TRANSFORMER - 3A
- FILTER WITHOUT TRANSFORMER - 3A
- FILTER WITHOUT TRANSFORMER - 6A
- OUTSIDE TEMPERATURE SENSOR N10
- BOILER TEMPERATURE SENSOR N10
- COAXIAL EXHAUSTING FLUE 60/100 CT CONDENS
- DUAL EXHAUSTING FLUE D80 CT CONDENS
- ROOF VERTICAL EXHAUSTING FLUE 60/100 CT CONDENS
- ADAPTOR FOR ROOF VERTICAL EXHAUSTING FLUE CT CONDENS
- EXTENSION 0.5M 60/100 CT CONDENS
- EXTENSION 1M 60/100 CT CONDENS
- EXTENSION 1.5M 60/100 CT CONDENS
- EXTENSION 0.5M D80 CT CONDENS
- EXTENSION 1M D80 CT CONDENS
- 90° ELBOW 60/100 EXTENSION CT CONDENS
- 90° ELBOW D80 EXTENSION CT CONDENS
- 45° ELBOW 60/100 EXTENSION CT CONDENS

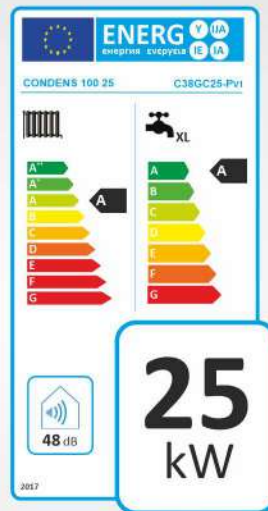


CONDENSING WALL HUNG GAS BOILERS

Product code: C38GC25-PV1



CONDENSING WALL HUNG GAS BOILER, 25 kW
New CONDENS series - HIGH-TECH condensing technology



Up to 106% efficiency and 1:10 modulation ratio

High comfort on DHW circuit - OVERSIZED secondary heat exchanger

3 YEARS WARRANTY

4,3 inch backlight display

CE 2726₂₁

A class efficiency-

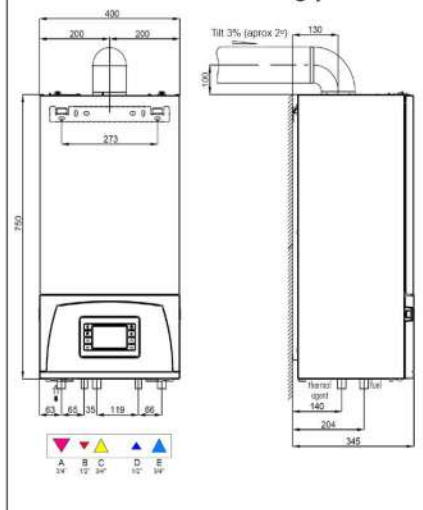
- 4 stars ★★★★★
(dir. 92/42/CEE)

Domestic Hot Water comfort -

- 3 stars ★★★★★
(EN 13203)

NO_x CLASS 5

Dimensions and mounting positions:



Front Panel

CLIENT ADVANTAGES:

- High class MOTAN wall hung gas boiler condensing series
- New design whit 4,3 inch backlight display;
- Up to 106% efficiency and 1:10 modulation ratio;
- Friendly environment - during operation releases significantly reduced amounts of NO_x, CO and CO₂ - Class NO_x 5;
- High comfort on DHW circuit - OVERSIZED secondary heat exchanger;
- Designed and build for maximum operating efficiency and economy according to the latest European legislative requirements;
- STAINLESS STEEL primary heat exchanger;
- The possibility of connecting a chrono-thermostat, remote control panel and/or external temperature probe;

Technical and functional characteristics

Type	C38GC25-PV1	
Trade name	CONDENS 100 25	
Efficiency stars (dir. 92/42/CEE)	****	
Gas category to be used	G20-12H	
Flue type	Forced, variable speed fan	
Nox class (G20-12H, G24, G25.1, G31)	5	
Heating energy efficiency class	A	
Max power (80/60°C)(G20-12H)	25,6 kW	
Max power (50/30°C - condensing)(G20-12H)	28,2 kW	
Output performance at nominal heat input (80/60°C)(G20-12H)	97%	
Output performance at nominal heat input (50/30°C - condensing)(G20-12H)	106%	
Max gas nominal consumption	≈2,8 Nmc/h	
Gas pressure (G20-12H)	20 mbar	
Gas pressure (GN)	35 mbar	
Maximum pressure on CH circuit	0,8 ÷ 3 bar	
Temperature adjustment interval CH	30 ÷ 80°C	
Temperature adjustment interval underfloor	15 ÷ 45°C	
Maximum pressure on the hot water circuit	0,2 ÷ 8 bar	
Temperature adjustment interval	30 ÷ 55°C	
Hot water flow at ΔT = 30°C (flow restrictor 12l/min)	13,5 l/min	
DHW Confort EN 13203	***	
DHW efficiency class	load profile XL	

Constructive features	Height (mm)	750	
	Width (mm)	400	
	Depth (mm)	345	
	Weight	32 kg	
	Primary heat exchanger capacity	1,4 l	
	Connectors	Thermal input, output	3/4"
		Cold water input, hot water output	1/2"
		Gas input	3/4"
	Expansion vessel with membrane	8 l	
	Air/gas incoming/ outgoing flue pipe	Coaxial D100/D60, Dual D80*	
Length of burnt gases connecting pipe	Coaxial max 20m; Dual max 20m*		
Evacuation type	B ₁₅ , B ₁₀ , C ₁₅ , C ₁₀ , C _{7.5} , C _{7.5} , C ₅ , C ₅ , C ₅ , C ₅ , C ₅ , C ₅ , C ₅ , C ₅ , C ₅ , C ₅ , C ₅ , C ₅ , C ₅ , C ₅ , C ₅ , C ₅		
Flue temp	≈80°C		
Electrical characteristics	Power	~230VAC/50 Hz	
	Nominal power	81 W	
	Protection class	IP 44	

* The standard gas boiler is delivered with dual coaxial kit as accessory; dual kit is delivered as accessory on demand

STAINLESS STEEL HEAT EXCHANGER:

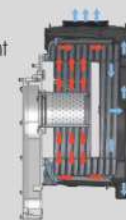
The new condensing heat exchanger for the CONDENS 100 25 boiler is a single purpose integrated and compact heat exchanger based on a simple stainless steel coil with an oval section. The heat exchanger is composed by a combustion chamber, condensing area and an insulated metallic disk protected with silicon ceramic fiber which separates the two areas. Using single coil, included inlet/outlet connection, to produce the coil, ensure the benefits below:



- Autocleaning - To avoid dirt and debris accumulation, especially in replacement market. Flow rate is uniformly distributed in a single pipe ensuring a proper heat transfer. Best performance in water pressure drop;



Minimum number of components;
 - High efficiency and robustness - Constant water speed over a long lifecycle
 - Stainless Steel - Excellent resistance to corrosion and easily machinable;
 - Avoiding welding process


CONDENS PLUS 100 25 WALL HUNG GAS BOILER INTEGRATE COMPONENTS OF THE BEST QUALITY:

- Condensing heat exchanger Circond - Valmex (Italy);
- Circulation pump GRUNDFOS (Denmark);
- Gas valve SIT (Italy);
- Build-in gas-air nozzle fan SIT (Italy);
- Expansion tank Zilio (Italy);
- Safety valve Kramer / Bitron (Italy);

LIST OF ACCESSORIES AND OTHER MOTAN PRODUCTS COMPATIBLE WITH CONDENS 100 25 BOILER:
Product name:

STORAGE TANK BA120L-V1
 SMART ROOM THERMOSTAT HT500
 WIRELESS ROOM THERMOSTAT HT220S SET
 ROOM THERMOSTAT HT220S
 CASCADE MODULE KOBER
 FILTER WITH TRANSFORMER - 3A
 FILTER WITHOUT TRANSFORMER - 3A
 FILTER WITHOUT TRANSFORMER - 6A
 OUTSIDE TEMPERATURE SENSOR N10
 BOILER TEMPERATURE SENSOR N10

COAXIAL EXHAUSTING FLUE 60/100 CT CONDENS
 DUAL EXHAUSTING FLUE D80 CT CONDENS
 ROOF VERTICAL EXHAUSTING FLUE 60/100 CT CONDENS
 ADAPTOR FOR ROOF VERTICAL EXHAUSTING FLUE CT CONDENS
 EXTENSION 0.5M 60/100 CT CONDENS
 EXTENSION 1M 60/100 CT CONDENS
 EXTENSION 1.5M 60/100 CT CONDENS
 EXTENSION 0.5M D80 CT CONDENS
 EXTENSION 1M D80 CT CONDENS
 90° ELBOW 60/100 EXTENSION CT CONDENS
 90° ELBOW D80 EXTENSION CT CONDENS
 45° ELBOW 60/100 EXTENSION CT CONDENS



CONDENSING WALL HUNG GAS BOILERS

Product code: C34GV24-PV2



WALL HUNG GAS BOILER, 24 kW WITH CONDENSATE RECUPERATOR

New CONDENS series



- High comfort on DHW circuit - OVERSIZED secondary heat exchanger
- Up to 104% efficiency and 1:4 modulation ratio
- Backlight display and switch keys



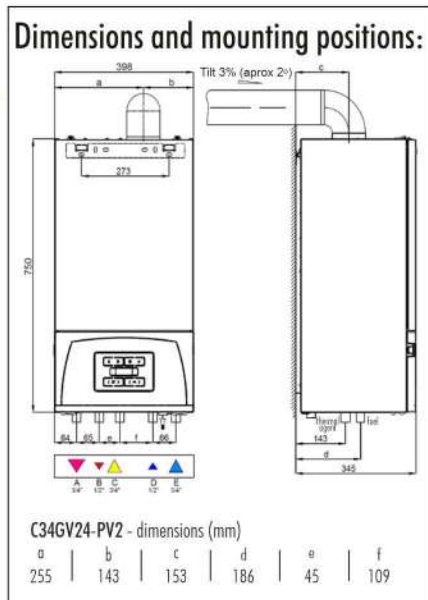
B class efficiency

- 4 stars ★★★★★
(dir. 92/42/CEE)

Domestic Hot Water comfort

- 3 stars ★★★★★
(EN 13203)

NOx CLASS 5



Front Panel

CLIENT ADVANTAGES:

- Constant and high efficiency - up to 104%;
- Modulation ration - 1:4;
- Available in 24kW and 28 kW variants;
- Designed and build for maximum operating efficiency and economy - B CLASS EFFICIENCY - 4 stars**** (dir. 92/42/CEE)
- Increased comfort on domestic hot water: Secondary heat exchanger oversized - A CLASS EFFICIENCY - 3 stars *** (EN 13203);
- The possibility of connecting a chrono-thermostat, remote control panel and/or external temperature probe;
- Control panel with LCD display that provides a advanced graphical interface, and switch keys;

Product code: C34GV28-PV1



**WALL HUNG GAS BOILER, 28 kW
WITH CONDENSATE RECUPERATOR**
New CONDENS series



Up to 104% efficiency and 1:4 modulation ratio

High comfort on DHW circuit - OVERSIZED secondary heat exchanger

Backlight display and switch keys

CE 2726₂₁

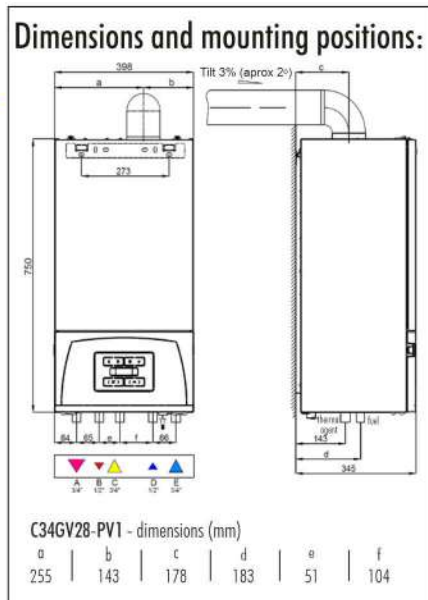
B class efficiency

- 4 stars ★★★★★
(dir. 92/42/CEE)

Domestic Hot Water comfort

- 3 stars ★★★★★
(EN 13203)

NOx CLASS 5



Front Panel

CLIENT ADVANTAGES:

- Constant and high efficiency - up to 104%;
- Modulation ration - 1:4;
- Available in 24kW and 28 kW variants;
- Designed and build for maximum operating efficiency and economy - B CLASS EFFICENCY - 4 stars**** (dir. 92/42/CEE);
- Increased comfort on domestic hot water: Secondary heat exchanger oversized - A CLASS EFFICENCY - 3 stars *** (EN 13203);
- The possibility of connecting a chrono-thermostat, remote control panel and/or external temperature probe;
- Control panel with LCD display that provides a advanced graphical interface, and switch keys;

Technical and functional characteristics

Type	C34GV28-PV1		
Trade name	CONDENS 050 28		
Efficiency stars (dir. 92/42/CEE)	****		
Gas type	112H3B/P		
Flue type	Forced, variable speed fan		
Nox class (G20-I2H)	3		
Heating energy efficiency class	B		
Thermal efficiency (80/60°C) (G20-I2H)	97%		
Thermal efficiency (50/30°C - condensing)(G20-I	104%		
Max power (80/60°C)(G20-I2H)	27 kW		
Max power (50/30°C - condensing)(G20-I2H)	29 kW		
Nominal max. consumption	≈ 2,97 Nm ³ /h		
Rated pressure gas input (G20-I2H)	20 mbar		
Max. rated pressure gas input	35 mbar		
Rated pressure gas input (LPG)	40 mbar		
Pressure (min/max) on thermal circuit	0,8 ÷ 3 bar		
Temperature on thermal circuit	45 ÷ 75°C		
Temperature adjustment interval underfloor	30 ÷ 75°C		
Temperature on domestic hot water circuit	40 ÷ 55°C		
DHW temperature adjustment interval	35 ÷ 55°C		
Hot water flow at ΔT = 30°C (flow restrictor 12l/min)	12 l/min		
DHW comfort - EN13203	***		
DHW energy efficiency class	A, load profile XL		
Construction characteristics	Height (mm)	750	
	Width (mm)	400	
	Depth (mm)	345	
	Weight	33 kg	
	Capacity main heat exchanger	1 l	
	Connectors	Thermal input, output	3/4"
		Cold water input, hot water output	1/2"
		Gas input	3/4"
	Expansion vessel with membrane	8 l	
	Air/ gas incoming/ outgoing flue pipe	Coaxial D100/D60, Dual D80*	
Length of burnt gases connecting pipe	Coaxial max 3m; Dual 5m*		
Evacuation type	C12, C12X, C32, C32X		
Burnt gases (maximum temperature)	≈ 77°C		
Electric characteristics	Input	~230V/50 Hz	
	Nominal power	83 W	
	Protection class	IP 44	

* The boiler is standard delivered with 1m co-axial flue



CONDENSING WALL-HUNG GAS BOILERS

CONDENS 050 28 WALL HUNG GAS BOILER INTEGRATE COMPONENTS OF THE BEST QUALITY:

- Circulation pump GRUNDFOS (Denmark);
- Gas valve SIT (Italy);
- Build-in gas-air nozzle fan SIT (Italy);
- Secondary heat exchanger CONDEVO (Italy) / SWEP (Sweden)
- Expansion tank Zilio (Italy);
- Safety valve Kramer / Bitron (Italy);


LIST OF ACCESSORIES AND OTHER MOTAN PRODUCTS COMPATIBLE WITH CONDENS 050 28:

Product name:

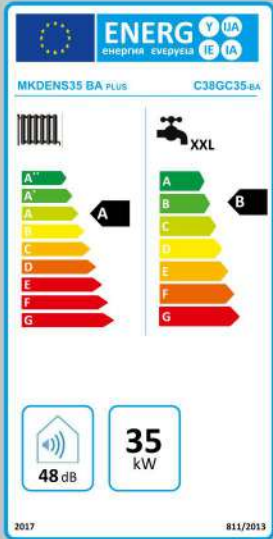
- STORAGE TANK BA120L-V1
- SMART ROOM THERMOSTAT HT500
- WIRELESS ROOM THERMOSTAT HT220S SET
- ROOM THERMOSTAT HT220S
- CASCADE MODULE KÖBER
- FILTER WITH TRANSFORMER - 3A
- FILTER WITHOUT TRANSFORMER - 3A
- FILTER WITHOUT TRANSFORMER - 6A
- OUTSIDE TEMPERATURE SENSOR N10
- BOILER TEMPERATURE SENSOR N10
- COAXIAL EXHAUSTING FLUE 60/100 CT CONDENS
- DUAL EXHAUSTING FLUE D80 CT CONDENS
- ROOF VERTICAL EXHAUSTING FLUE 60/100 CT CONDENS
- ADAPTOR FOR ROOF VERTICAL EXHAUSTING FLUE CT CONDENS
- EXTENSION 0.5M 60/100 CT CONDENS
- EXTENSION 1M 60/100 CT CONDENS
- EXTENSION 1.5M 60/100 CT CONDENS
- EXTENSION 0.5M D80 CT CONDENS
- EXTENSION 1M D80 CT CONDENS
- 90° ELBOW 60/100 EXTENSION CT CONDENS
- 90° ELBOW D80 EXTENSION CT CONDENS
- 45° ELBOW 60/100 EXTENSION CT CONDENS



Product code: C38GC35-BA



CONDENSING WALL HUNG GAS BOILER, 35 kW storage combo boiler with 40 liters stainless steel tank




RAPID response for family homes with high demand of DHW

Saving gas and electricity
CIRCULATION PUMP LOW ENERGY

Up to 106% efficiency and 1:10 modulation ratio

High comfort on DHW circuit
OVERSIZE secondary heat exchanger

BRONZE hydroblock and stainless steel pipes



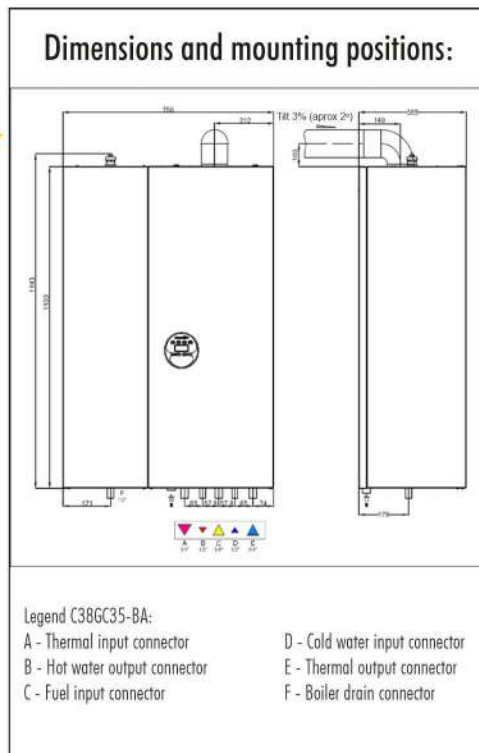
A class efficiency-

- 4 stars ★★★★★
(dir. 92/42/CEE)

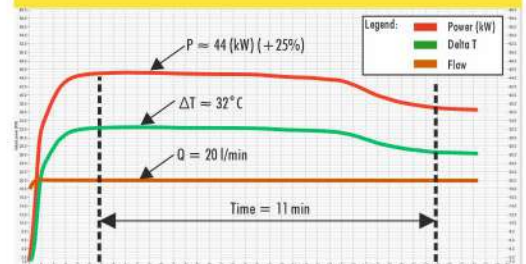
Domestic Hot Water comfort -

- 3 stars ★★★★★
(EN 13203)

NO_x CLASS 5



DHW SUPERIOR COMFORT




The boiler, in operation on DHW circuit, at a constant flow of 20l / min and a ΔT = 32°C - has a maximum power of 44kW for 11 min (more by 25% - compared to a 35kW condensing boiler, this ADVANTAGE is due to the built-in 40 liters stainless steel storage tank).

CLIENT ADVANTAGES:

- The top model in the range of MOTAN boilers
DHW superior comfort due to the built-in 40 liters STAINLESS STEEL storage tank;
- Storage tank temperature losses are considerably reduced, due to the use of high quality insulation, from polyurethane foam;
- Friendly environment - during operation releases significantly reduced amounts of NO_x, CO and CO₂ - Class NO_x 5;
- Designed and build for maximum operating efficiency and economy according to the latest European legislative requirements;
- STAINLESS STEEL primary heat exchanger;


Product code: C38GC35-CH1V1



**CONDENSING WALL HUNG GAS BOILER, 35 kW
ONLY FOR HEATING, WITH 3-WAY VALVE**
Affordable condensing technology


Up to 106% efficiency and 1:10 modulation ratio

Saving gas and electricity
CIRCULATION PUMP -LOW ENERGY



STAINLESS STEEL CONDENSING heat exchanger
CIRCOND - VALMEX

LCD display



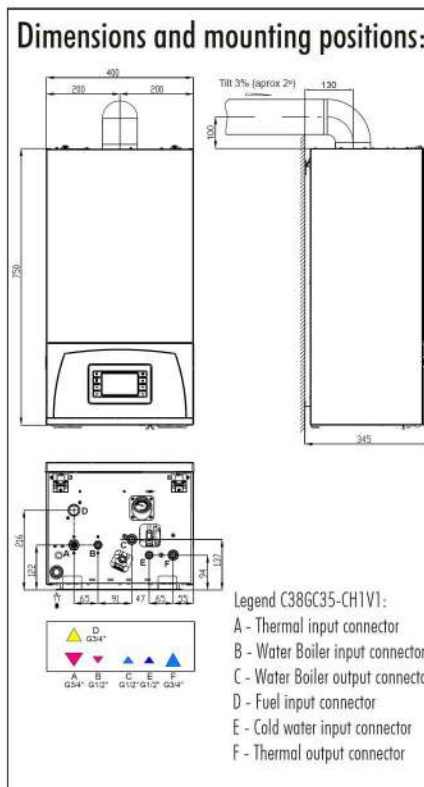
A class efficiency

- 4 stars ★★★★★
(dir. 92/42/CEE)

Condensing boiler only for heating

3-way valve included

NOx CLASS 5



CLIENT ADVANTAGES:

- The top model in the range of MOTAN boilers;
- Friendly environment - during operation releases significantly reduced amounts of NOx, CO and CO2 - Class NOx 5;
- Designed and build for maximum operating efficiency and economy according to the latest European legislative requirements - low energy pump;
- Evaluated pressure sensor - provides intelligent protection against overpressure or low pressure
- The possibility of connecting a chrono-thermostat, remote control panel and/or external temperature probe;
- Maximum efficiency: the boiler operates in a condensing system EFFICIENCY CLASS - 4 stars **** (dir. 92/42/EEC);
- STAINLESS STEEL primary heat exchanger;
- Installation ventilation function - the circulation pump works on request outside the combustion cycle in order to easily ventilate the installation
- Control panel with LCD display that provides advanced graphical interface, and switch keys;

Technical and functional characteristics

Type	C38GC35-CH1V1	
Trade name	CONDENS 100 CH1	
Efficiency stars (dir. 92/42/CEE)	****	
Gas category to be used	G20-I2H	
Flue type	Forced, variable speed fan	
Nox class (G20-I2H, G24, G25.1, G31)	5	
Heating energy efficiency class	A	
Min/Max CH power (G20-I2H)	3.5 - 33.9kW	
Max power(80/60°C)(G20-I2H)	32,8 kW	
Max power (50/30°C - condensing)(G20-I2H)	35,8 kW	
Output performance at nominal heat input (80/60°C)(G20-I2H)	97%	
Output performance at nominal heat input (50/30°C - condensing)(G20-I2H)	106%	
Max gas nominal consumption	≈3,59 Nm ³ /h	
Gas pressure(G20-I2H)	20 mbar	
Gas pressure (GN)	35 mbar	
Maximum pressure on CH circuit	0,8 ÷ 3 bar	
Temperature adjustment interval CH	30 ÷ 80°C	
Temperature adjustment interval underfloor	15 ÷ 45°C	
Constructive features	Height (mm)	750
	Width (mm)	400
	Depth (mm)	345
	Weight	36 kg
	Primary heat exchanger capacity	1,8 l
	Connectors Thermal input, output	3/4"
	Connectors Cold water input, hot water output	1/2"
	Connectors Gas input	3/4"
	Expansion vessel with membrane	8 l
	Air/ gas incoming/ outgoing flue pipe	Coaxial D100/D60, Dual D80*
Length of burnt gases connecting pipe	Coaxial max 20m; Dual max 20m*	
Tip evacuare	B ₃₁ , B ₃₃ , C ₃₁ , C ₃₃ , C ₃₅ , C ₃₇ , C ₃₉ , C ₄₁ , C ₄₃ , C ₄₅ , C ₄₇ , C ₄₉ , C ₅₁ , C ₅₃ , C ₅₅ , C ₅₇ , C ₅₉ , C ₆₁ , C ₆₃ , C ₆₅ , C ₆₇ , C ₆₉	
Flue temp MAX (60-80°C)	≈69°C	
Electrical characteristics	Power	~230VAC/50 Hz
	Nominal power	81 W
	Protection class	IP 44

* The standard gas boiler is delivered with dual coaxial kit as accessory; dual kit is delivered as accessory on demand

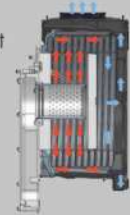
STAINLESS STEEL HEAT EXCHANGER:

The new condensing heat exchanger for the CONDENS 100 Ch1 boiler is a single purpose integrated and compact heat exchanger based on a simple stainless steel coil with an oval section. The heat exchanger is composed by a combustion chamber, condensing area and an insulated metallic disk protected with silicon ceramic fiber which separates the two areas. Using single coil, included inlet/outlet connection, to produce the coil, ensure the benefits below:

- Autocleaning - To avoid dirt and debris accumulation, especially in replacement market. Flow rate is uniformly distributed in a single pipe ensuring a proper heat transfer. Best performance in water pressure drop;



Minimum number of components;
 - High efficiency and robustness - Constant water speed over a long lifecycle
 - Stainless Steel - Excellent resistance to corrosion and easily machinable;
 - Avoiding welding process



CONDENS 100 CH1 WALL HUNG GAS BOILER INTEGRATE COMPONENTS OF THE BEST QUALITY:

- Condensing heat exchanger Circond - Valmex (Italy);
- Circulation pump GRUNDFOS (Denmark);
- Gas valve SIT (Italy);
- Build-in gas-air nozzle fan SIT (Italy);
- Brass hydroblock Fugas (Italy);
- Safety valve Kramer / Bitron (Italy);

LIST OF ACCESSORIES AND OTHER MOTAN PRODUCTS COMPATIBLE WITH CONDENS 100 CH1:

Product name:

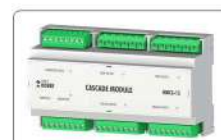
- DHW STORAGE TANK BP120L-V1
- SMART ROOM THERMOSTAT HT500
- WIRELESS ROOM THERMOSTAT HT220S SET
- ROOM THERMOSTAT HT220S
- CASCADE MODULE KOBER
- FILTER WITH TRANSFORMER - 3A
- FILTER WITHOUT TRANSFORMER - 3A
- FILTER WITHOUT TRANSFORMER - 6A
- OUTSIDE TEMPERATURE SENSOR N10
- BOILER TEMPERATURE SENSOR N10
- COAXIAL EXHAUSTING FLUE 60/100 CT CONDENS
- DUAL EXHAUSTING FLUE D80 CT CONDENS
- ROOF VERTICAL EXHAUSTING FLUE 60/100 CT CONDENS
- ADAPTOR FOR ROOF VERTICAL EXHAUSTING FLUE CT CONDENS
- EXTENSION 0.5M 60/100 CT CONDENS
- EXTENSION 1M 60/100 CT CONDENS
- EXTENSION 1.5M 60/100 CT CONDENS
- EXTENSION 0.5M D80 CT CONDENS
- EXTENSION 1M D80 CT CONDENS
- 90° ELBOW 60/100 EXTENSION CT CONDENS
- 90° ELBOW D80 EXTENSION CT CONDENS
- 45° ELBOW 60/100 EXTENSION CT CONDENS



DHW STORAGE TANK BP120L-V1



ROOF VERTICAL EXHAUSTING FLUE CT CONDENS ADAPTOR FOR ROOF VERTICAL EXHAUSTING FLUE CT CONDENS



CASCADE MODULE KOBER



FILTER WITH TRANSFORMER - 3A



HT220S - ROOM THERMOSTAT



HT220S SET - WIRELESS ROOM THERMOSTAT



FILTER WITHOUT TRANSFORMER - 6A




SMART ROOM THERMOSTAT MOTAN HT500SET



DUAL EXHAUSTING FLUE D80 CT CONDENS

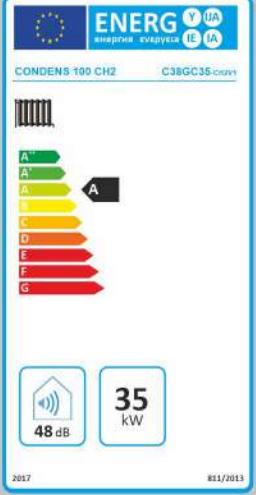
CONDENSING WALL HUNG GAS BOILER ONLY FOR HEATING

Product code: C38GC35-CH2V1



CONDENSING WALL HUNG GAS BOILER, 35 kW ONLY FOR HEATING, WITHOUT 3-WAY VALVE

Affordable condensing technology




Up to 106%
efficiency
and 1:10
modulation ratio

Saving gas
and electricity
CIRCULATION
PUMP
-LOW ENERGY

STAINLESS STEEL
CONDENSING
heat exchanger
CIRCOND - VALMEX

LCD display



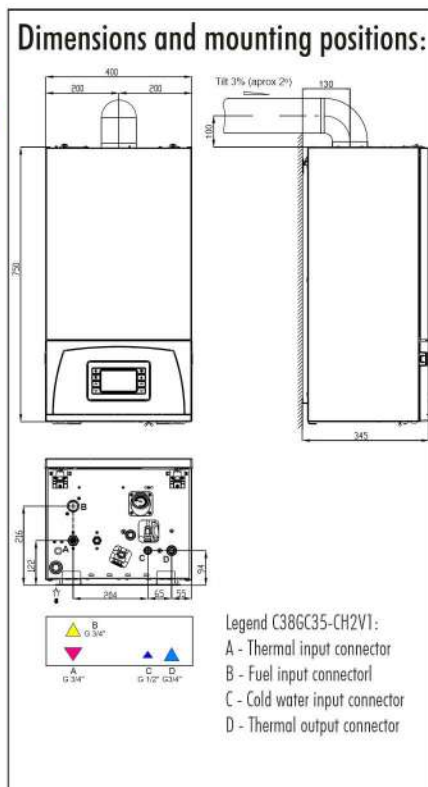
A class efficiency

- 4 stars 
(dir. 92/42/CEE)

**Condensing boiler
only for heating**

Without 3-way valve

NOx CLASS 5



CLIENT ADVANTAGES:

- The top model in the range of MOTAN boilers;
- Friendly environment - during operation releases significantly reduced amounts of NOx, CO and CO2 - Class NOx 5;
- Designed and build for maximum operating efficiency and economy according to the latest European legislative requirements - low energy pump;
- Evaluated pressure sensor - provides intelligent protection against overpressure or low pressure
- The possibility of connecting a chrono-thermostat, remote control panel and/or external temperature probe;
- Maximum efficiency: the boiler operates in a condensing system EFFICIENCY CLASS - 4 stars **** (dir. 92/42/EEC);
- STAINLESS STEEL primary heat exchanger;
- Installation ventilation function - the circulation pump works on request outside the combustion cycle in order to easily ventilate the installation
- Control panel with LCD display that provides advanced graphical interface, and switch keys;

Technical and functional characteristics

Type	C38GC45V1	
Trade name	CONDENS 100 45 CH2	
Efficiency stars (dir. 92/42/CEE)	****	
Gas category to be used	G20-I2H	
Flue type	Forced, variable speed fan	
Nox class (G20-I2H, G24, G25.1, G31)	5	
Heating energy efficiency class	A	
Min/Max CH power (G20-I2H) (G20-I2H)	3.5 - 33.9kW	
Max power(80/60°C)(G20-I2H)	45 kW	
Max power (50/30°C - condensing)(G20-I2H)	50 kW	
Output performance at nominal heat input (80/60°C)(G20-I2H)	97%	
Output performance at nominal heat input (50/30°C - condensing)(G20-I2H)	106%	
Max gas nominal consumption	4.97Nm ³ /h	
Gas pressure(G20-I2H)	20 mbar	
Gas pressure (GN)	35 mbar	
Maximum pressure on CH circuit	0,8 ÷ 3 bar	
Temperature adjustment interval CH	30 ÷ 80°C	
Temperature adjustment interval underfloor	15 ÷ 45°C	
Constructive features	Height (mm)	788
	Width (mm)	400
	Depth (mm)	372
	Weight	35 kg
	Primary heat exchanger capacity	1,4 l
	Thermal input, output	1
	Connectors Cold water input	1/2"
	Gas input	3/4"
	Expansion vessel with membrane	8 l
	Air/ gas incoming/ outgoing flue pipe	Coaxial D100/D60, Dual D80*
Length of burnt gases connecting pipe	Coaxial max 20m; Dual max 20m*	
Tip evacure	B ₂₁ , B ₂₂ , C ₁₁ , C ₁₂ , C ₁₃ , C ₁₄ , C ₁₅ , C ₁₆ , C ₁₇ , C ₁₈ , C ₁₉ , C ₂₀ , C ₂₁ , C ₂₂ , C ₂₃ , C ₂₄ , C ₂₅ , C ₂₆ , C ₂₇ , C ₂₈ , C ₂₉ , C ₃₀	
Flue temp MAX (60-80°C)	≈ 69°C	
Electrical characteristics	Power	~230VAC/50 Hz
	Nominal power	81 W
	Protection class	IP 44

* The standard gas boiler is delivered with dual coaxial kit as accessory; dual kit is delivered as accessory on demand

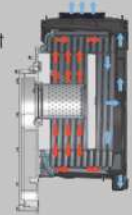
STAINLESS STEEL HEAT EXCHANGER:

The new condensing heat exchanger for the CONDENS 100 CH2 boiler is a single purpose integrated and compact heat exchanger based on a simple stainless steel coil with an oval section. The heat exchanger is composed by a combustion chamber, condensing area and an insulated metallic disk protected with silicon ceramic fiber which separates the two areas. Using single coil, included inlet/outlet connection, to produce the coil, ensure the benefits below:

- Autocleaning - To avoid dirt and debris accumulation, especially in replacement market. Flow rate is uniformly distributed in a single pipe ensuring a proper heat transfer. Best performance in water pressure drop;



- Minimum number of components;
- High efficiency and robustness - Constant water speed over a long lifecycle
- Stainless Steel - Excellent resistance to corrosion and easily machinable;
- Avoiding welding process



CONDENS 100 45 CH2 WALL HUNG GAS BOILER INTEGRATE COMPONENTS OF THE BEST QUALITY:

- Condensing heat exchanger Circond - Valmex (Italy);
- Circulation pump GRUNDFOS (Denmark);
- Gas valve SIT (Italy);
- Build-in gas-air nozzle fan SIT (Italy);
- Brass hydroblock Fugas (Italy);
- Safety valve Kramer / Bitron (Italy);

CONDENSING WALL HUNG GAS BOILER ONLY FOR HEATING

LIST OF ACCESSORIES AND OTHER MOTAN PRODUCTS COMPATIBLE WITH CONDENS 100 CH2:

- Product name:**
- DHW STORAGE TANK BP120L-V1
 - SMART ROOM THERMOSTAT HT500
 - WIRELESS ROOM THERMOSTAT HT220S SET
 - ROOM THERMOSTAT HT220S
 - CASCADE MODULE KOBER
 - FILTER WITH TRANSFORMER - 3A
 - FILTER WITHOUT TRANSFORMER - 3A
 - FILTER WITHOUT TRANSFORMER - 6A
 - OUTSIDE TEMPERATURE SENSOR N10
 - BOILER TEMPERATURE SENSOR N10
 - COAXIAL EXHAUSTING FLUE 60/100 CT CONDENS
 - DUAL EXHAUSTING FLUE D80 CT CONDENS
 - ROOF VERTICAL EXHAUSTING FLUE 60/100 CT CONDENS
 - ADAPTOR FOR ROOF VERTICAL EXHAUSTING FLUE CT CONDENS
 - EXTENSION 0.5M 60/100 CT CONDENS
 - EXTENSION 1M 60/100 CT CONDENS
 - EXTENSION 1.5M 60/100 CT CONDENS
 - EXTENSION 0.5M D80 CT CONDENS
 - EXTENSION 1M D80 CT CONDENS
 - 90° ELBOW 60/100 EXTENSION CT CONDENS
 - 90° ELBOW D80 EXTENSION CT CONDENS
 - 45° ELBOW 60/100 EXTENSION CT CONDENS



Product code: C38GC45V1

CONDENSING WALL HUNG GAS BOILER, 45 kW ONLY FOR HEATING, WITHOUT 3-WAY VALVE

Affordable condensing technology

Up to 106% efficiency and 1:9 modulation ratio

Saving gas and electricity
CIRCULATION PUMP
-LOW ENERGY

STAINLESS STEEL CONDENSING heat exchanger
CIRCOND - VALMEX

LCD display

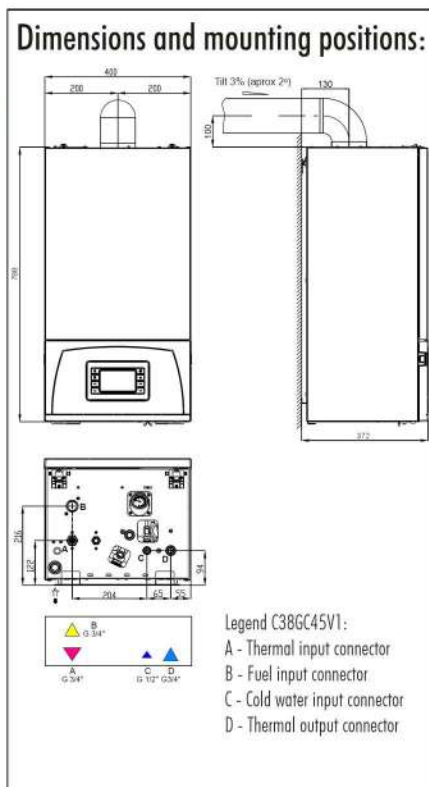
A class efficiency

- 4 stars (dir. 92/42/CEE)

Condensing boiler only for heating

Without 3-way valve

NOx CLASS 5



CLIENT ADVANTAGES:

- The top model in the range of MOTAN boilers;
 - Friendly environment - during operation releases significantly reduced amounts of NOx, CO and CO2 - Class NOx 5;
 - Designed and build for maximum operating efficiency and economy according to the latest European legislative requirements - low energy pump;
 - The possibility of connecting IN CASCADE MODE, remote control panel and/or external temperature probe;
 - Maximum efficiency: the boiler operates in a condensing system EFFICIENCY CLASS - 4 stars **** (dir. 92/42/EEC);
 - STAINLESS STEEL primary heat exchanger;
 - Installation ventilation function - the circulation pump works on request outside the combustion cycle in order to easily ventilate the installation
- Control panel with LCD display that provides advanced graphical interface, and switch keys;

Technical and functional characteristics

Type	C38GC45V1		
Trade name	CONDENS 100 45 CH2		
Efficiency stars (dir. 92/42/CEE)	****		
Gas category to be used	G20-I2H		
Flue type	Forced, variable speed fan		
Nox class (G20-I2H, G24, G25.1, G31)	5		
Heating energy efficiency class	A		
Min/Max CH power (G20-I2H (G20-I2H)	3.5 - 33.9kW		
Max power(80/60°C)(G20-I2H)	45 kW		
Max power (50/30°C - condensing)(G20-I2H)	50 kW		
Output performance at nominal heat input (80/60°C)(G20-I2H)	97%		
Output performance at nominal heat input (50/30°C - condensing)(G20-I2H)	106%		
Max gas nominal consumption	4.97Nm ³ /h		
Gas pressure(G20-I2H)	20 mbar		
Gas pressure (GN)	35 mbar		
Maximum pressure on CH circuit	0,8 ÷ 3 bar		
Temperature adjustment interval CH	30 ÷ 80°C		
Temperature adjustment interval underfloor	15 ÷ 45°C		
Constructive features	Height (mm)	788	
	Wjidth (mm)	400	
	Depth (mm)	372	
	Weight	37 kg	
	Primary heat exchanger capacity	1,4 l	
	Connectors	Thermal input, output	1
		Cold water input	1/2"
		Gas input	3/4"
	Expansion vessel with membrane	8 l	
	Air/ gas incoming/ outgoing flue pipe	Coaxial D100/D60, Dual D80*	
Length of burnt gases connecting pipe	Coaxial max 20m; Dual max 20m*		
Tip evacure	C13, C13A, C13B, C13C, C13D, C13E, C13F, C13G, C13H, C13I, C13J, C13K, C13L, C13M, C13N, C13O, C13P, C13Q, C13R, C13S, C13T, C13U, C13V, C13W, C13X, C13Y, C13Z		
Flue temp MAX (60-80°C)	≈ 59°C		
Electrical characteristics	Power	~230VAC/50 Hz	
	Nominal power	180 W	
	Protection class	IPX4D	

* The standard gas boiler is delivered with dual coaxial kit as accessory; dual kit is delivered as accessory on demand

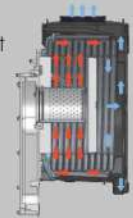
STAINLESS STEEL HEAT EXCHANGER:

The new condensing heat exchanger for the CONDENS 100 45 CH2 boiler is a single purpose integrated and compact heat exchanger based on a simple stainless steel coil with an oval section. The heat exchanger is composed by a combustion chamber, condensing area and an insulated metallic disk protected with silicon ceramic fiber which separates the two areas. Using single coil, included inlet/outlet connection, to produce the coil, ensure the benefits below:

- Autocleaning - To avoid dirt and debris accumulation, especially in replacement market. Flow rate is uniformly distributed in a single pipe ensuring a proper heat transfer. Best performance in water pressure drop;



- Minimum number of components;
- High efficiency and robustness - Constant water speed over a long lifecycle
- Stainless Steel - Excellent resistance to corrosion and easily machinable;
- Avoiding welding process



CONDENS 100 45 CH2 WALL HUNG GAS BOILER INTEGRATE COMPONENTS OF THE BEST QUALITY:

- Condensing heat exchanger Circond - Valmex (Italy);
- Circulation pump GRUNDFOS (Denmark);
- Gas valve SIT (Italy);
- Build-in gas-air nozzle fan SIT (Italy);
- Brass hydroblock Fugas (Italy);
- Safety valve Kramer / Bitron (Italy);

CONDENSING WALL HUNG GAS BOILERS ONLY FOR HEATING

LIST OF ACCESSORIES AND OTHER MOTAN PRODUCTS COMPATIBLE WITH CONDENS 100 45 CH2:

Product name:

- DHW STORAGE TANK BP120L-V1
- SMART ROOM THERMOSTAT HT500
- WIRELESS ROOM THERMOSTAT HT220S SET
- ROOM THERMOSTAT HT220S
- CASCADE MODULE KOBER
- FILTER WITH TRANSFORMER - 3A
- FILTER WITHOUT TRANSFORMER - 3A
- FILTER WITHOUT TRANSFORMER - 6A
- OUTSIDE TEMPERATURE SENSOR N10
- BOILER TEMPERATURE SENSOR N10
- COAXIAL EXHAUSTING FLUE 60/100 CT CONDENS
- DUAL EXHAUSTING FLUE D80 CT CONDENS
- ROOF VERTICAL EXHAUSTING FLUE 60/100 CT CONDENS
- ADAPTOR FOR ROOF VERTICAL EXHAUSTING FLUE CT CONDENS
- EXTENSION 0.5M 60/100 CT CONDENS
- EXTENSION 1M 60/100 CT CONDENS
- EXTENSION 1.5M 60/100 CT CONDENS
- EXTENSION 0.5M D80 CT CONDENS
- EXTENSION 1M D80 CT CONDENS
- 90° ELBOW 60/100 EXTENSION CT CONDENS
- 90° ELBOW D80 EXTENSION CT CONDENS
- 45° ELBOW 60/100 EXTENSION CT CONDENS



DHW STORAGE TANK BP120L-V1



ROOF VERTICAL 60/100 EXHAUSTING FLUE CT CONDENS ADAPTOR FOR ROOF VERTICAL CONNECTING FLUE CT CONDENS



CASCADE MODULE KÖBER



FILTER WHIT TRANSFORMER - 3A



HT220S - ROOM THERMOSTAT



HT220S SET - WIRELESS ROOM THERMOSTAT



FILTER WITHOUT TRANSFORMER - 6A



SMART ROOM THERMOSTAT MOTAN HT500SET



DUAL EXHAUSTING FLUE D80 CT CONDENS

Product code: C38GC70V1

CONDENSING WALL HUNG GAS BOILER, 70 kW
ONLY FOR HEATING, WITHOUT 3-WAY VALVE
 Affordable condensing technology



Up to 106% efficiency and 1:7 modulation ratio

Saving gas and electricity
CIRCULATION PUMP - LOW ENERGY



STAINLESS STEEL CONDENSING heat exchanger
CIRCOND - VALMEX

LCD display

CE 2726₂₂

A class efficiency

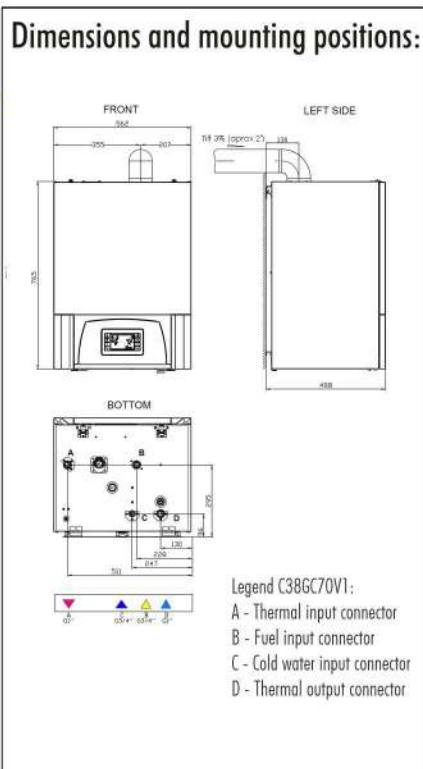
- 4 stars ★★★★★
 (dir. 92/42/CEE)

Condensing boiler only for heating

Without 3-way valve

NOx CLASS 5

Dimensions and mounting positions:



CLIENT ADVANTAGES:

- The top model in the range of MOTAN boilers;
- Friendly environment - during operation releases significantly reduced amounts of NOx, CO and CO2 - Class NOx 5;
- Designed and build for maximum operating efficiency and economy according to the latest European legislative requirements - low energy pump;
- The possibility of connecting IN CASCADE MODE, remote control panel and/or external temperature probe;
- Maximum efficiency: the boiler operates in a condensing system EFFICIENCY CLASS - 4 stars **** (dir. 92/42/EEC);
- STAINLESS STEEL primary heat exchanger;
- Installation ventilation function - the circulation pump works on request outside the combustion cycle in order to easily ventilate the installation
- Control panel with LCD display that provides advanced graphical interface, and switch keys;

Technical and functional characteristics

Type	C38GC70V1		
Trade name	CONDENS 100 CH2 70		
Efficiency stars (dir. 92/42/CEE)	****		
Gas category to be used	I12H3B/P		
Flue type	Forced, variable speed		
Nox class (G20-I2H, G24, G25.1, G31)	5		
Heating energy efficiency class	A		
Max power(80/60°C)(G20-I2H)	69 kW		
Max power (50/30°C - condensing)(G20-I2H)	72 kW		
Output performance at nominal heat input (80/60°C)(G20-I2H)	97,1%		
Output performance at nominal heat input (50/30°C - condensing)(G20-I2H)	104,2%		
Max gas nominal consumption	≈7.46 mc/h		
Gas pressure(G20-I2H)	20 mbar		
Gas pressure (GN)	35 mbar		
Maximum pressure on CH circuit	0,8 ÷ 3 bar		
Temperature adjustment interval CH	30 ÷ 80°C		
Temperature adjustment interval underfloor	15 ÷ 45°C		
Constructive features	Height (mm)	765	
	Width (mm)	562	
	Depth (mm)	488	
	Weight	60 kg	
	Primary heat exchanger capacity	7,5 l	
	Connectors	Thermal input, output	1"
		Cold water input	3/4"
		Gas input	3/4"
	Air/ gas incoming/ outgoing flue pipe	Coaxial D80/D125 min. 1m - max. 20m	
	Length of burnt gases connecting pipe	Dual D80/D80 min. 1m - max. 5m	
Tip evacure	C13, C13B, C33, C33B, C43, C43B, C83, C83B, C93, C93B		
Flue temp MAX (60-80°C)	≈60°C		
Electrical characteristics	Power	~230V/50 Hz	
	Nominal power	370W	
	Protection class	IPX4D	

* The standard gas boiler is delivered with dual coaxial kit as accessory; dual kit is delivered as accessory on demand

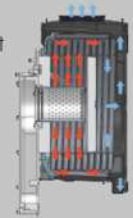
STAINLESS STEEL HEAT EXCHANGER:

The new condensing heat exchanger for the CONDENS 100 CH2 70 boiler is a single purpose integrated and compact heat exchanger based on a simple stainless steel coil with an oval section. The heat exchanger is composed by a combustion chamber, condensing area and an insulated metallic disk protected with silicon ceramic fiber which separates the two areas. Using single coil, included inlet/outlet connection, to produce the coil, ensure the benefits below:

- Autocleaning - To avoid dirt and debris accumulation, especially in replacement market. Flow rate is uniformly distributed in a single pipe ensuring a proper heat transfer. Best performance in water pressure drop;



- Minimum number of components;
- High efficiency and robustness - Constant water speed over a long lifecycle
 - Stainless Steel - Excellent resistance to corrosion and easily machinable;
 - Avoiding welding process



CONDENS 100 CH2 70 WALL HUNG GAS BOILER INTEGRATE COMPONENTS OF THE BEST QUALITY:

- Condensing heat exchanger Circond - Valmex (Italy);
- Circulation pump GRUNDFOS (Denmark);
- Gas valve SIT (Italy);
- Build-in gas-air nozzle fan SIT (Italy);
- Safety valve Kramer / Bitron (Italy);

CONDENSING WALL HUNG GAS BOILERS ONLY FOR HEATING

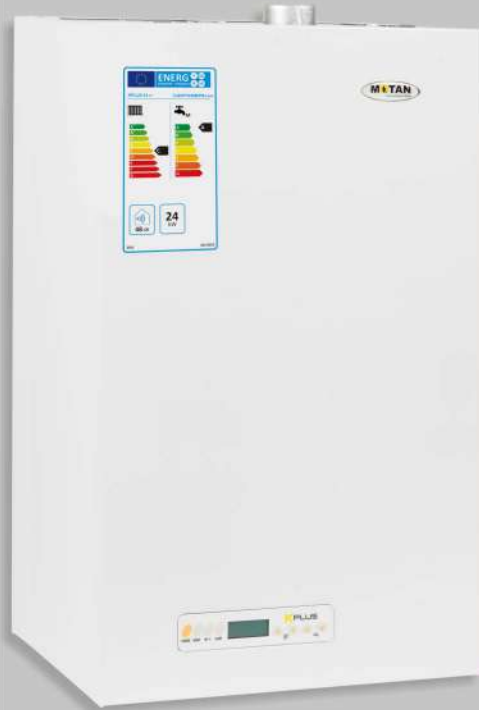
LIST OF ACCESSORIES AND OTHER MOTAN PRODUCTS COMPATIBLE WITH CONDENS 100 CH2 70:

Product name:

- DHW STORAGE TANK BP120L-V1
- SMART ROOM THERMOSTAT HT500
- WIRELESS ROOM THERMOSTAT HT220S SET
- ROOM THERMOSTAT HT220S
- CASCADE MODULE KOBER
- FILTER WITH TRANSFORMER - 3A
- FILTER WITHOUT TRANSFORMER - 3A
- FILTER WITHOUT TRANSFORMER - 6A
- OUTSIDE TEMPERATURE SENSOR N10
- BOILER TEMPERATURE SENSOR N10
- COAXIAL EXHAUSTING FLUE 60/100 CT CONDENS
- DUAL EXHAUSTING FLUE D80 CT CONDENS
- ROOF VERTICAL EXHAUSTING FLUE 60/100 CT CONDENS
- ADAPTOR FOR ROOF VERTICAL EXHAUSTING FLUE CT CONDENS
- EXTENSION 0.5M 60/100 CT CONDENS
- EXTENSION 1M 60/100 CT CONDENS
- EXTENSION 1.5M 60/100 CT CONDENS
- EXTENSION 0.5M D80 CT CONDENS
- EXTENSION 1M D80 CT CONDENS
- 90° ELBOW 60/100 EXTENSION CT CONDENS
- 90° ELBOW D80 EXTENSION CT CONDENS
- 45° ELBOW 60/100 EXTENSION CT CONDENS

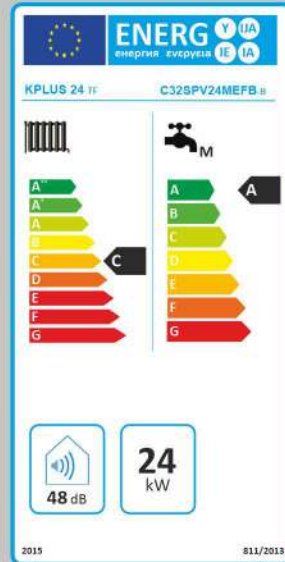


Product code: C32SPV24MEFB-B-ERP / C32SPV24MEFBV3



CONVENTIONAL WALL HUNG GAS BOILER, 24 kW

Comfort, safety and fiability at good price



DHW superior comfort:
OVERSIZED
secondary heat
exchanger

BRASS
hydoblock and
STAINLESS STEEL
pipes

LCD display

Saving gas
and electricity
CIRCULATION
PUMP
-LOW ENERGY



CE 2726₂₁

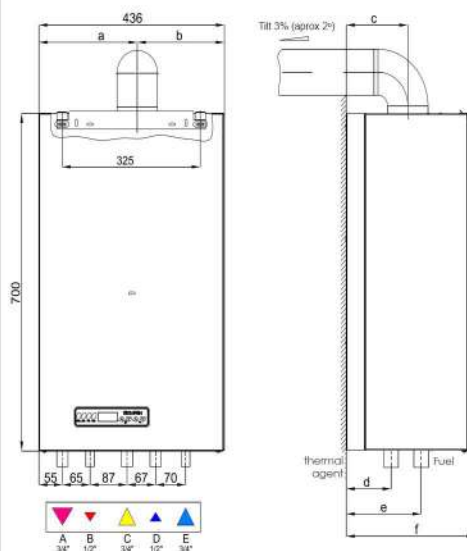
Monothermal secondary
heat exchanger for DHW

Efficiency: 93%

Compact size

Forced draft

Dimensions and mounting positions:



Dimensions (mm):

a - 231 mm
b - 205 mm
c - 145 mm
d - 107 mm
e - 176 mm
f - 306 mm

Legend:

A - Thermal input connector
B - Hot water output connector
C - Fuel input connector
D - Cold water input connector
E - Thermal output connector

CLIENT ADVANTAGES:

- Designed and build for maximum operating efficiency and economy - C CLASS EFFICENCY - 3 stars*** (dir. 92/42/CEE)
- DHW Increased comfort: classified 2 stars** (En13203), respectively class A (regulation 811-814 / 2013 for implementation Eco-design directive (ERP directive) 2009/125 / EC) on the DHW comfort

SAFETY FEATURES

- Overpressure safety valve protects the gas boiler at pressures higher than 3 bar;
- Water temperature sensor in the heating circuit
- Air pressure switch that detects no exhaust flue gases;
- Overheating safety thermostat for the heat exchanger;
- Electronic module of control and command;
- Self-diagnostic performant system;
- Antifreeze performant system;
- Chalk deposits prevention system;
- Antiblocking pump system with action every 24h;

Technical and functional characteristics

Type	C32SPV24MEFB-B-ERP C32SPV24MEFBV3		
Trade name	KPLUS TF		
Efficiency stars (dir. 92/42/CEE)	***		
Gas type	II2H3B/P, I2H, I2E +, II2ELL3B/P, II2HS3B/P		
Flue type	Forced		
Nox class (G20-I2H)	4		
Thermal efficiency (G20-I2H)	93%		
Nominal power (min./max.) (G20-I2H)	7,4 - 23,2 kW		
Nominal max. consumption	≈ 2,3 Nm ³ /h		
Rated pressure gas input (G20-I2H)	20 mbar		
Pressure (min/max) on thermal circuit	0,5 ÷ 3 bar		
Pressure (min/max) on DHW circuit	0,2 ÷ 8 bar		
Energy efficiency class on central heating circuit	C		
Temperature on thermal circuit	30 ÷ 80°C		
Temperature on thermal circuit for underfloor system	15 ÷ 45°C		
Temperature on domestic hot water circuit	35 ÷ 55°C		
Hot water flow ΔT = 30°C	12 l/min		
DHW comfort - EN13203	***		
DHW energy efficiency class	A		
Construction characteristics	Height (mm)	700	
	Width (mm)	436	
	Depth (mm)	306	
	Weight	32 kg	
	Capacity main heat exchanger	1 l	
	Conectors	Thermal input, output	3/4"
		Cold water input, hot water output	1/2"
		Gas input	3/4"
	Expansion vessel with membrane	8 l	
	Air/ gas incoming/ outgoing flue pipe	Coaxial D100/D60, Dual D80*	
Length of burnt gases connecting pipe	Coaxial max 3m; Dual 5m*		
Evacuation type	C ₁₇ , C ₁₇ , C ₁₇ , C ₁₇ , C ₁₇ , C ₁₇ , C ₁₇		
Burnt gases (maximum temperature)	≈ 150 °C		
Electric characteristics	Input	~ 230V/50 Hz	
	Nominal power	82 W	
	Protection class	IP 40	

* The boiler is standard delivered with 1m co-axial flue



KPLUS WALL HUNG GAS BOILER INTEGRATE COMPONENTS OF THE BEST QUALITY:

- Circulation pump GRUNDFOS (Denmark);
- Gas valve SIT (Italy);
- Burner WORGAS (Italy);
- Exhaust fan ELICA (Italy);
- Primary heat exchanger VALMEX (Italy)
- Expansion vessel ZILIO (Italy);
- Ignition transformer ANSTOSS (Austria)
- Safety valve KRAMER (Italy);

CONVENTIONAL WALL HUNG GAS BOILER

LIST OF ACCESSORIES AND OTHER MOTAN PRODUCTS COMPATIBLE WITH KPLUS TF

Product name:

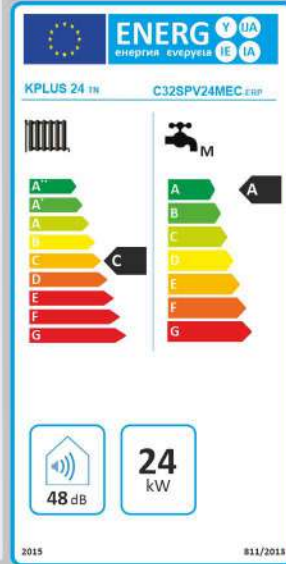
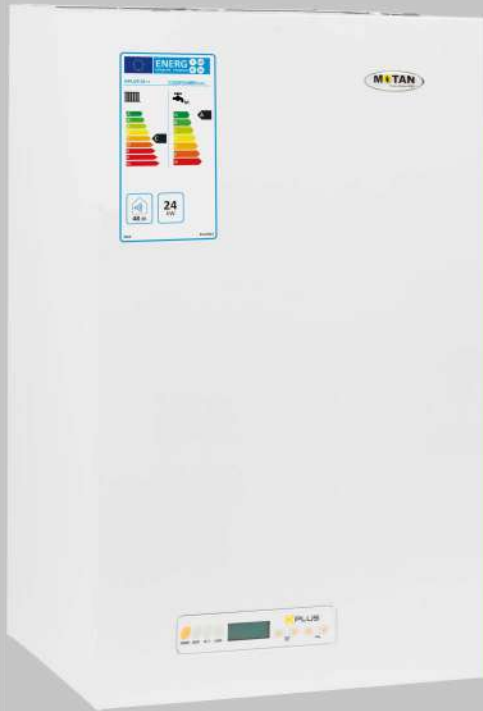
- STORAGE TANK BA120L-V1
- SMART ROOM THERMOSTAT HT500
- WIRELESS ROOM THERMOSTAT HT220S SET
- ROOM THERMOSTAT HT220S
- CASCADE MODULE KOBER
- FILTER WITH TRANSFORMER - 3A
- FILTER WITHOUT TRANSFORMER - 3A
- FILTER WITHOUT TRANSFORMER - 6A
- OUTSIDE TEMPERATURE SENSOR N10
- BOILER TEMPERATURE SENSOR N10
- KIT D. 60/100 CT NORMALE AMTK 700507
- DUAL KIT WITH D80 CT ATMOSPHERE ADAPTER.
- VERTICAL KIT 60/100 ROOF CT ATMOSF.
- VERTICAL KIT COAXIAL CT ADAPTER ATMOSF
- VERTICAL KIT + ADAPTER + REC CT NORMAL 71MN71213
- EXTENSION 0.5M 60/100 CT ATMOS
- EXTENSION 1M 60/100 CT ATMOS
- EXTENSION 1.5M 60/100 CT ATMOS
- EXTENSION 0.5M D80 CT ATMOS
- EXTENSION 1M D80 CT ATMOS
- 90° ELBOW 60/100 EXTENSION CT ATMOS
- 90° ELBOW D80 EXTENSION CT ATMOS
- 45° ELBOW 60/100 EXTENSION CT ATMOS



Product code: C32SPV24MEC-ERP

CONVENTIONAL WALL HUNG GAS BOILER, 24 kW WITH NATURAL DRAFT

Comfort, safety and fiability at good price



DHW superior comfort:
OVERSIZED
secondary heat
exchanger

BRASS
hydoblock and
STAINLESS STEEL
pipes

LCD display

Saving gas
and electricity
CIRCULATION
PUMP
-LOW ENERGY



CE 2726₂₁

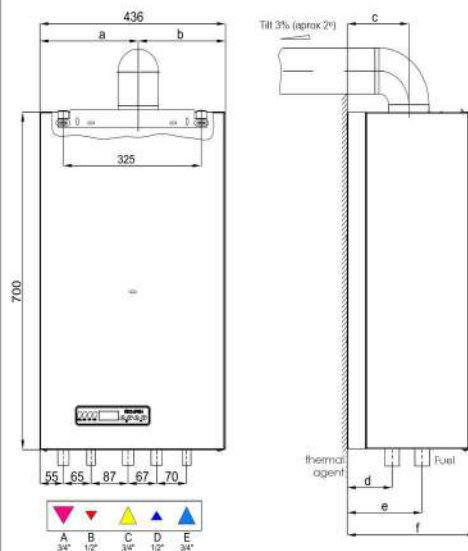
Monothermal secondary
heat exchanger for DHW

Efficiency: 93%

Compact size

Natural draft

Dimensions and mounting positions:



Dimensions (mm):

a - 178 mm
b - 258 mm
c - 172 mm
d - 107 mm
e - 176 mm
f - 306 mm

Legend:

A - Thermal input connector
B - Hot water output connector
C - Fuel input connector
D - Cold water input connector
E - Thermal output connector

CLIENT ADVANTAGES:

- Designed and build for maximum operating efficiency and economy - C CLASS EFFICENCY - 3 stars*** (dir. 92/42/CEE)
- DHW Increased comfort: classified 2 stars ** (En13203), respectively class A (regulation 811-814 / 2013 for implementation Eco-design directive (ERP directive) 2009/125 / EC) on the DHW comfort

SAFETY FEATURES

- Overpressure safety valve protects the gas boiler at pressures higher than 3 bar;
- Water temperature sensor in the heating circuit
- Air pressure switch that detects no exhaust flue gases;
- Overheating safety thermostat for the heat exchanger;
- Electronic module of control and command;
- Self-diagnostic performant system;
- Antifreeze performant system;
- Chalk deposits prevention system;
- Antiblocking pump system with action every 24h;

Technical and functional characteristics

Type	C32SPV24MEC-ERP		
Trade name	KPLUS TN		
Efficiency stars (dir. 92/42/CEE)	**		
Gas type	II2H3B/P, I2H, I2E+, II2ELL3B/P, II2HS3B/P		
Flue type	Natural		
Nox class (G20-I2H)	2		
Thermal efficiency (G20-I2H)	93%		
Nominal power (min./max.) (G20-I2H)	8,5 - 23,3 kW		
Nominal max. consumption	≈ 2,4 Nm ³ /h		
Rated pressure gas input (G20-I2H)	20 mbar		
Pressure (min/max) on thermal circuit	0,5 ÷ 3 bar		
Pressure (min/max) on DHW circuit	0,2 ÷ 8 bar		
Energy efficiency class on central heating circuit	C		
Temperature on thermal circuit	30 ÷ 80°C		
Temperature on thermal circuit for underfloor system	15 ÷ 45°C		
Temperature on domestic hot water circuit	35 ÷ 55°C		
Hot water flow ΔT = 30°C	12 l/min		
DHW comfort - EN13203	**		
DHW energy efficiency class	A		
Construction characteristics	Height (mm)	700	
	Width (mm)	436	
	Depth (mm)	306	
	Weight	28 kg	
	Capacity main heat exchanger	1 l	
	Conectors	Thermal input, output	3/4"
		Cold water input, hot water output	1/2"
		Gas input	3/4"
	Expansion vessel with membrane	8 l	
	Air/ gas incoming/ outgoing flue pipe	D125	
Length of burnt gases connecting pipe	Coaxial max 3m; Dual 5m*		
Evacuation type	B _{II}		
Burnt gases (maximum temperature)	≈ 138°C		
Electric characteristics	Input	~230V/50 Hz	
	Nominal power	72 W	
	Protection class	IP 40	

* The boiler is standard delivered with 1m co-axial flue



KPLUS TN WALL HUNG GAS BOILER INTEGRATE COMPONENTS OF THE BEST QUALITY:

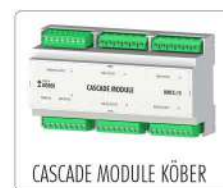
- Circulation pump GRUNDFOS (Denmark);
- Gas valve SIT (Italy);
- Burner WORGAS (Italy);
- Primary heat exchanger VALMEX (Italy)
- Expansion vessel ZILIO (Italy);
- Brass hydroblock Fugas (Italy);
- Safety valve KRAMER (Italy);

CONVENTIONAL WALL HUNG GAS BOILER

LIST OF ACCESSORIES AND OTHER MOTAN PRODUCTS COMPATIBLE WITH KPLUS TN

Product name:

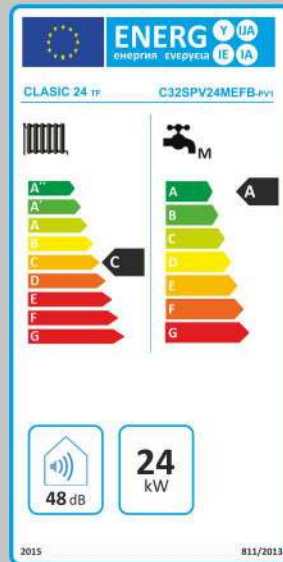
STORAGE TANK BA120L-V1
 SMART ROOM THERMOSTAT HT500
 WIRELESS ROOM THERMOSTAT HT220S SET
 ROOM THERMOSTAT HT220S
 CASCADE MODULE KOBER
 FILTER WITH TRANSFORMER - 3A
 FILTER WITHOUT TRANSFORMER - 3A
 FILTER WITHOUT TRANSFORMER - 6A
 OUTSIDE TEMPERATURE SENSOR N10
 BOILER TEMPERATURE SENSOR N10



Product code: C32SPV24MEFB-PV1

CONVENTIONAL WALL HUNG GAS BOILER, 24 kW

Comfort, safety and fiability at good price



DHW superior comfort:
OVERSIZED
secondary heat
exchanger

Saving gas
and electricity
**CIRCULATION
PUMP**
-LOW ENERGY



LCD display

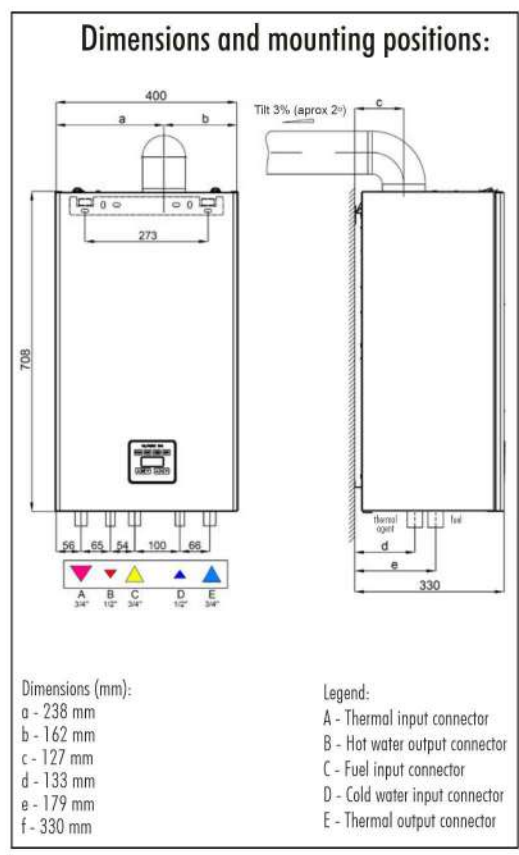


Monothermal secondary
heat exchanger for DHW

Efficiency: 93%

Compact size

Forced draft



CLIENT ADVANTAGES:

- Designed and build for maximum operating efficiency and economy - C CLASS EFFICIENCY - 3 stars*** (dir. 92/42/CEE)
- DHW Increased comfort: classified 2 stars** (En13203), respectively class A (regulation 811-814 / 2013 for implementation Eco-design directive (ERP directive) 2009/125 / EC) on the DHW comfort

SAFETY FEATURES

- Overpressure safety valve protects the gas boiler at pressures higher than 3 bar;
- Water temperature sensor in the heating circuit
- Air pressure switch that detects no exhaust flue gases;
- Overheating safety thermostat for the heat exchanger;
- Electronic module of control and command;
- Self-diagnostic performant system;
- Antifreeze performant system;
- Chalk deposits prevention system;
- Antiblocking pump system with action every 24h;

Technical and functional characteristics

Type	C32SPV24MEFB-PV1		
Trade name	CLASIC 24 TF		
Efficiency stars (dir. 92/42/CEE)	***		
Gas type	112H3B/P, 12H, 12E+, 112EL13B/P, 112HS3B/P		
Flue type	Forced		
Nox class (G20-12H)	4		
Thermal efficiency (G20-12H)	92,6%		
Nominal power (min./max.) (G20-12H)	8,7 - 23,2 kW		
Nominal max. consumption	≈2,67 Nm ³ /h		
Rated pressure gas input (G20-12H)	20 mbar		
Pressure (min/max) on thermal circuit	0,5 ÷ 3 bar		
Pressure (min/max) on DHW circuit	0,2 ÷ 8 bar		
Energy efficiency class on central heating circuit	C		
Temperature on thermal circuit	45 ÷ 75 °C		
For boiler with stainless steel heat exchanger, underfloor heating is blocked			
Temperature on domestic hot water circuit	40 ÷ 55 °C		
Hot water flow ΔT = 30 °C	12 l/min		
DHW comfort - EN13203	***		
DHW energy efficiency class	A		
Construction characteristics	Height (mm)	708	
	Width (mm)	400	
	Depth (mm)	330	
	Weight	32 kg	
	Capacity main heat exchanger	1 l	
	Conectors	Thermal input, output	3/4"
		Cold water input, hot water output	1/2"
		Gas input	3/4"
	Expansion vessel with membrane	8 l	
	Air/ gas incoming/ outgoing flue pipe	Coaxial D100/D60, Dual D80*	
Length of burnt gases connecting pipe	Coaxial max 3m; Dual 5m*		
Evacuation type	C ₁₇ , C ₃₇ , C ₅₇ , C ₇₇ , C ₉₇ , C ₁₁₇ , C ₁₃₇		
Burnt gases (maximum temperature)	≈150 °C		
Electric characteristics	Input	~230V/50 Hz	
	Nominal power	82 W	
	Protection class	IP 40	

* The boiler is standard delivered with 1m co-axial flue



**CLASIC 24 TF WALL HUNG GAS BOILER
INTEGRATE COMPONENTS OF THE BEST QUALITY:**

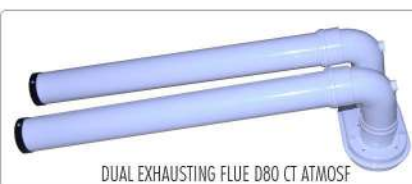
- Circulation pump GRUNDFOS (Denmark);
- Gas valve SIT (Italy);
- Burner WORGAS (Italy);
- Exhaust fan ELICA (Italy);
- Primary heat exchanger KÖBER (Romania);
- Expansion vessel ZILIO (Italy);
- Safety valve KRAMER (Italy);

CONVENTIONAL WALL HUNG GAS BOILER

LIST OF ACCESSORIES AND OTHER MOTAN PRODUCTS COMPATIBLE WITH CLASIC 24 TF

Product name:

- STORAGE TANK BA120L-V1
- SMART ROOM THERMOSTAT HT500
- WIRELESS ROOM THERMOSTAT HT220S SET
- ROOM THERMOSTAT HT220S
- CASCADE MODULE KOBER
- FILTER WITH TRANSFORMER - 3A
- FILTER WITHOUT TRANSFORMER - 3A
- FILTER WITHOUT TRANSFORMER - 6A
- OUTSIDE TEMPERATURE SENSOR N10
- BOILER TEMPERATURE SENSOR N10
- KIT D.60/100 CT NORMALE AMTK 700507
- DUAL KIT WITH D80 CT ATMOSPHERE ADAPTER.
- VERTICAL KIT 60/100 ROOF CT ATMOSF.
- VERTICAL KIT COAXIAL CT ADAPTER ATMOSF
- VERTICAL KIT + ADAPTER + REC CT NORMAL 71MN71213
- EXTENSION 0.5M 60/100 CT ATMOS
- EXTENSION 1M 60/100 CT ATMOS
- EXTENSION 1.5M 60/100 CT ATMOS
- EXTENSION 0.5M D80 CT ATMOS
- EXTENSION 1M D80 CT ATMOS
- 90° ELBOW 60/100 EXTENSION CT ATMOS
- 90° ELBOW D80 EXTENSION CT ATMOS
- 45° ELBOW 60/100 EXTENSION CT ATMOS

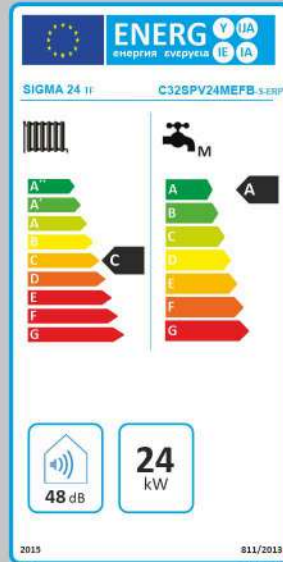


Product code: C32SPV24MEFB-S-ERP / C32SPV24MEFB-PV3



CONVENTIONAL WALL HUNG GAS BOILER, 24 kW

Comfort, safety and fiability at good price



DHW superior comfort:
OVERSIZED
secondary heat
exchanger

Saving gas
and electricity
CIRCULATION
PUMP
-LOW ENERGY

LCD display



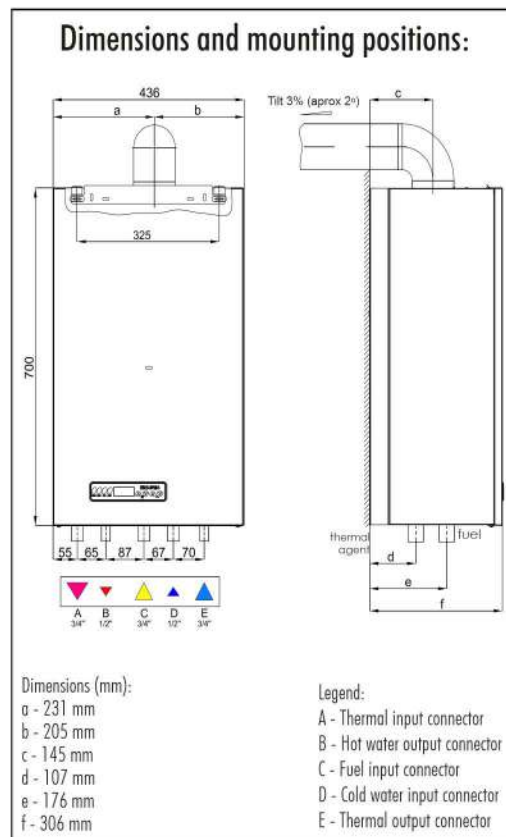
CE 2726₂₁

Monothermal secondary
heat exchanger for DHW

Efficiency: 93%

Compact size

Forced draft



CLIENT ADVANTAGES:

- Designed and build for maximum operating efficiency and economy - C CLASS EFFICIENCY - 3 stars*** (dir. 92/42/CEE)
- DHW Increased comfort: classified 2 stars** (En13203), respectively class A (regulation 811-814 / 2013 for implementation Eco-design directive (ERP directive) 2009/125 / EC) on the DHW comfort

SAFETY FEATURES

- Overpressure safety valve protects the gas boiler at pressures higher than 3 bar;
- Water temperature sensor in the heating circuit
- Air pressure switch that detects no exhaust flue gases;
- Overheating safety thermostat for the heat exchanger;
- Electronic module of control and command;
- Self-diagnostic performant system;
- Antifreeze performant system;
- Chalk deposits prevention system;
- Antiblocking pump system with action every 24h;

Technical and functional characteristics

Type	C32SPV24MEFB-S-ERP		
Trade name	SIGMA TF		
Efficiency stars (dir. 92/42/CEE)	***		
Gas type	112H3B/P, 12H, 12E+, 112ELL3B/P, 112HS3B/P		
Flue type	Forced		
Nox class (G20-12H)	4		
Thermal efficiency (G20-12H)	93%		
Nominal power (min./max.) (G20-12H)	7,4 - 23,2 kW		
Nominal max. consumption	≈2,3 Nmc/h		
Rated pressure gas input (G20-12H)	20 mbar		
Pressure (min/max) on thermal circuit	0,5 ÷ 3 bar		
Pressure (min/max) on DHW circuit	0,2 ÷ 8 bar		
Energy efficiency class on central heating circuit	C		
Temperature on thermal circuit	30 ÷ 80°C		
For boiler with stainless steel heat exchanger, underfloor heating is blocked	15 ÷ 45°C		
Temperature on domestic hot water circuit	35 ÷ 55°C		
Hot water flow ΔT = 30°C	12 l/min		
DHW comfort - EN13203	***		
DHW energy efficiency class	A		
Construction characteristics	Height (mm)	700	
	Width (mm)	436	
	Depth (mm)	306	
	Weight	32 kg	
	Capacity main heat exchanger	1 l	
	Conectors	Thermal input, output	3/4"
		Cold water input, hot water output	1/2"
		Gas input	3/4"
	Expansion vessel with membrane	8 l	
	Air/ gas incoming/ outgoing flue pipe	Coaxial D100/D60, Dual D80*	
Length of burnt gases connecting pipe	Coaxial max 3m; Dual 5m*		
Evacuation type	C12, C22, C32, C42, C52, C62, C72, C82		
Burnt gases (maximum temperature)	≈150 °C		
Electric characteristics	Input	~230V/50 Hz	
	Nominal power	82 W IP 40	

* The boiler is standard delivered with 1m co-axial flue



SIGMA TF WALL HUNG GAS BOILER INTEGRATE COMPONENTS OF THE BEST QUALITY:

- Circulation pump GRUNDFOS (Denmark);
- Gas valve SIT (Italy);
- Burner WORGAS (Italy);
- Exhaust fan ELICA (Italy);
- Primary heat exchanger VALMEX (Italy)
- Expansion vessel ZILIO (Italy);
- Safety valve KRAMER (Italy);

CONVENTIONAL WALL HUNG GAS BOILER

LIST OF ACCESSORIES AND OTHER MOTAN PRODUCTS COMPATIBLE WITH SIGMA TF:

Product name:

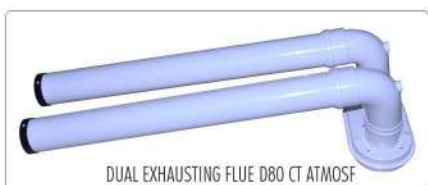
STORAGE TANK BA1 20L-V1
SMART ROOM THERMOSTAT HT500
WIRELESS ROOM THERMOSTAT HT220S SET
ROOM THERMOSTAT HT220S

CASCADE MODULE KOBER

FILTER WITH TRANSFORMER - 3A
FILTER WITHOUT TRANSFORMER - 3A
FILTER WITHOUT TRANSFORMER - 6A
OUTSIDE TEMPERATURE SENSOR N10
BOILER TEMPERATURE SENSOR N10

KIT D.60/100 CT NORMAL AMTK 700507
DUAL KIT WITH D80 CT ATMOSPHERE ADAPTER.
VERTICAL KIT 60/100 ROOF CT ATMOSF.
VERTICAL KIT COAXIAL CT ADAPTER ATMOSF
VERTICAL KIT + ADAPTER + REC CT NORMAL 71MN71213
EXTENSION 0.5M 60/100 CT ATMOS
EXTENSION 1M 60/100 CT ATMOS
EXTENSION 1.5M 60/100 CT ATMOS
EXTENSION 0.5M D80 CT ATMOS
EXTENSION 1M D80 CT ATMOS
90° ELBOW 60/100 EXTENSION CT ATMOS
90° ELBOW D80 EXTENSION CT ATMOS
45° ELBOW 60/100 EXTENSION CT ATMOS

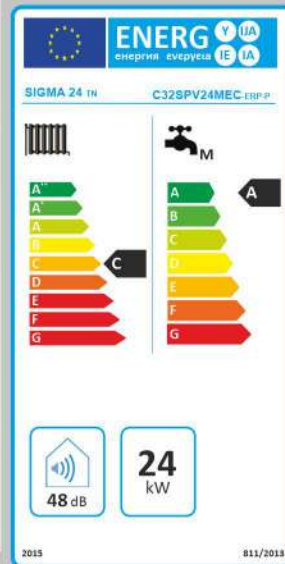
NOZZLE 0.77 MM LPG S227077
NOZZLE COPPER GASKET LPG Z144.



Product code: C32SPV24MEC-ERP-P

CONVENTIONAL WALL HUNG GAS BOILER, 24 kW with natural draft

Comfort, safety and fiability at good price



DHW superior comfort:
OVERSIZED
secondary heat
exchanger

Saving gas
and electricity
CIRCULATION
PUMP
-LOW ENERGY



LCD display

CE 2726₂₁

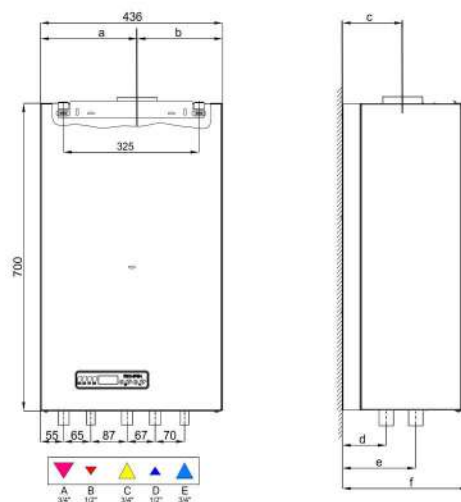
Monothermal secondary
heat exchanger for DHW

Efficiency: 93%

Compact size

Natural draft

Dimensions and mounting positions:



Dimensions (mm):

a - 178 mm
b - 258 mm
c - 172 mm
d - 107 mm
e - 176 mm
f - 306 mm

Legend:

A - Thermal input connector
B - Hot water output connector
C - Fuel input connector
D - Cold water input connector
E - Thermal output connector

CLIENT ADVANTAGES:

- Designed and build for maximum operating efficiency and economy - C CLASS EFFICIENCY - 3 stars*** (dir. 92/42/CEE)
- DHW Increased comfort: classified 2 stars** (En13203), respectively class A (regulation 811-814 / 2013 for implementation Eco-design directive (ERP directive) 2009/125 / EC) on the DHW comfort

SAFETY FEATURES

- Overpressure safety valve protects the gas boiler at pressures higher than 3 bar;
- Water temperature sensor in the heating circuit
- Air pressure switch that detects no exhaust flue gases;
- Overheating safety thermostat for the heat exchanger;
- Electronic module of control and command;
- Self-diagnostic performant system;
- Antifreeze performant system;
- Chalk deposits prevention system;
- Antiblocking pump system with action every 24h;

Technical and functional characteristics

Type	C32SPV24MEC-ERP-P	
Trade name	SIGMA TN	
Efficiency stars (dir. 92/42/CEE)	★★	
Gas type	II2H3B/P, I2H, I2E+, II2ELL3B/P, II2HS3B/P	
Flue type	Natural	
Nox class (G20-I2H)	2	
Thermal efficiency (G20-I2H)	92.8%	
Nominal power (min./max.) (G20-I2H)	8.5 - 23,3 kW	
Nominal max. consumption	≈ 2,4 Nm ³ /h	
Rated pressure gas input (G20-I2H)	20 mbar	
Pressure (min/max) on thermal circuit	0,5 ÷ 3 bar	
Pressure (min/max) on DHW circuit	0,2 ÷ 8 bar	
Energy efficiency class on central heating circuit	C	
Temperature on thermal circuit	30 ÷ 80°C	
Temperature on thermal circuit for underfloor system	15 ÷ 45°C	
Temperature on domestic hot water circuit	35 ÷ 55°C	
Hot water flow ΔT = 30°C	12 l/min	
DHW comfort - EN13203	★★	
DHW energy efficiency class	A	
Height (mm)	700	
Width (mm)	436	
Depth (mm)	306	
Weight	28 kg	
Capacity main heat exchanger	1 l	
Conectors	Thermal input, output	3/4"
	Cold water input, hot water output	1/2"
	Gas input	3/4"
Expansion vessel with membrane	8 l	
Air/ gas incoming/ outgoing flue pipe	D125	
Length of burnt gases connecting pipe	Minim 1 m + cos	
Evacuation type	B ₁₁	
Burnt gases (maximum temperature)	≈ 138 °C	
Electric characteristics	Input	~ 230V/50 Hz
	Nominal power	72 W
	Protection class	IP 40

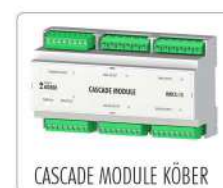

SIGMA TN WALL HUNG GAS BOILER INTEGRATE COMPONENTS OF THE BEST QUALITY:

- Circulation pump GRUNDFOS (Denmark);
- Gas valve SIT (Italy);
- Burner WORGAS (Italy);
- Primary heat exchanger VALMEX (Italy)
- Expansion vessel ZILIO (Italy);
- Safety valve KRAMER (Italy);

CONVENTIONAL WALL HUNG GAS BOILER

LIST OF ACCESSORIES AND OTHER MOTAN PRODUCTS COMPATIBLE SIGMA24 TN
Product name:

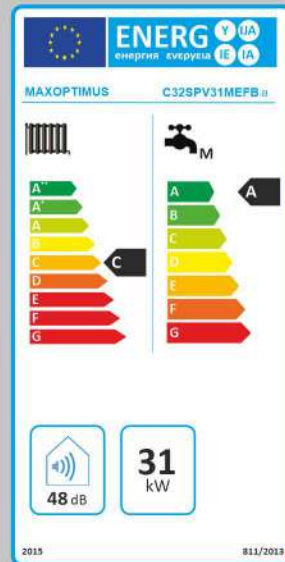
STORAGE TANK BA120L-V1
 SMART ROOM THERMOSTAT HT500
 WIRELESS ROOM THERMOSTAT HT220S SET
 ROOM THERMOSTAT HT220S
 CASCADE MODULE KOBER
 FILTER WITH TRANSFORMER - 3A
 FILTER WITHOUT TRANSFORMER - 3A
 FILTER WITHOUT TRANSFORMER - 6A
 OUTSIDE TEMPERATURE SENSOR N10
 BOILER TEMPERATURE SENSOR N10



Product code: C32SPV31MEFB-B-ERP



CONVENTIONAL WALL HUNG GAS BOILER, 31 kW
Wall hung gas boiler with optimized gas consumption.



DHW superior comfort:
OVERSIZED
secondary heat
exchanger

BRASS
hydroblock and
STAINLESS STEEL
pipes

LCD display

Saving gas
and electricity
CIRCULATION
PUMP
-LOW ENERGY



CE 2726₂₁

Efficiency class

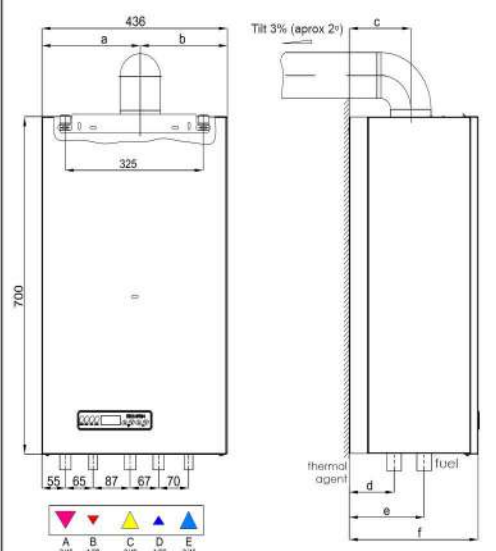
- 3 stars ★★ ★
(dir. 92/42/CEE)

DHW comfort

- 2 stars ★ ★
(EN 13203)

Nox class - 3

Dimensions and mounting positions:



Dimensions (mm):
a - 271 mm
b - 165 mm
c - 168 mm
d - 129 mm
e - 197 mm
f - 328 mm

Legend:
A - Thermal input connector
B - Hot water output connector
C - Fuel input connector
D - Cold water input connector
E - Thermal output connector

CLIENT ADVANTAGES:

- Constant and high efficiency;
- Low electricity consumption - low energy pump; EFFICIENCY CLASS 3 stars *** according to the European directive 92/42 / EEC; respectively class C (regulation 811-814 / 2013 for the implementation of the directive of Eco-Design (ERP Directive 2009/125 / EC) and 2** stars comfort on domestic hot water regime (EN13203); respectively class A (regulation 811-814 / 2013 for the implementation of the EcoDesign directive(ERP Directive) 2009/125 / EC);
- Easy to install due to compact size;
- Primary heat exchanger and secondary heat exchanger oversized;
- Possibility to connect a underfloor heating system;
- Control panel with LCD display, which provides advanced graphical interface and switch keys;
- Very good operating stability, foruser set temperature on both circuits;
- When the "Comfort function" is activated, allows the user to use DHW in the range of 35-45 ° C;
- Low emissions - class NOx 3 on natural gas;

Technical and functional characteristics

Type	C32SPV31MEFB-B-ERP		
Trade name	MAXOPTIMUS		
Gas type	***		
Efficiency stars (dir. 92/42/CEE)	II2H3B/P, I2H, I2E+, II2ELL3B/P, II2HS3B/P		
Flue type	Forced		
Nox class (G20-I2H)	4		
Thermal efficiency (G20-I2H)	93,6%		
Nominal power (min./max.) (G20-I2H)	9.6 - 30.8 kW		
Nominal max. consumption	≈3,51 Nm ³ /h		
Rated pressure gas input (G20-I2H)	20 mbar		
Pressure (min/max) on thermal circuit	0,5 ÷ 3 bar		
Pressure (min/max) on DHW circuit	0,2 ÷ 8 bar		
Energy efficiency class on central heating circuit	C		
Temperature on thermal circuit	30 ÷ 80°C		
Temperature on thermal circuit for underfloor system	15 ÷ 45°C		
Temperature on domestic hot water circuit	35 ÷ 55°C		
Hot water flow ΔT = 30°C	14,5 l/min		
DHW comfort - EN13203	**		
DHW energy efficiency class	A		
Construction characteristics	Height (mm)	700	
	Width (mm)	436	
	Depth (mm)	328	
	Weight	32 kg	
	Capacity main heat exchanger	1,8 l	
	Connectors	Thermal input, output	3/4"
		Cold water input, hot water output	1/2"
		Gas input	3/4"
	Expansion vessel with membrane	8 l	
	Air/ gas incoming/ outgoing flue pipe	Coaxial D100/D60, Dual D80*	
Length of burnt gases connecting pipe	Coaxial max 3m; Dual 5m*		
Evacuation type	C ₁₇ , C ₂₇ , C ₃₇ , C ₄₇ , C ₅₇ , C ₆₇ , C ₇₇ , C ₈₇		
Burnt gases (maximum temperature)	≈129 °C		
Electric characteristics	Input	~230V/50 Hz	
	Nominal power	87 W	
	Protection class	IP 40	

* The boiler is standard delivered with 1m co-axial flue.



MAXOPTIMUS WALL HUNG GAS BOILER INTEGRATE COMPONENTS OF THE BEST QUALITY:

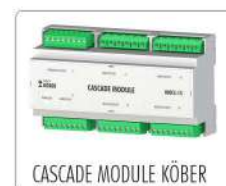
- Circulation pump GRUNDFOS (Denmark);
- Gas valve SIT (Italy);
- Burner WORGAS (Italy);
- Exhaust fan ELICA (Italy);
- Primary heat exchanger VALMEX (Italy)
- Expansion vessel ZILIO (Italy);
- Brass hidrobloc FUGGAS (Italy);
- Safety valve KRAMER (Italy);

CONVENTIONAL WALL HUNG GAS BOILER

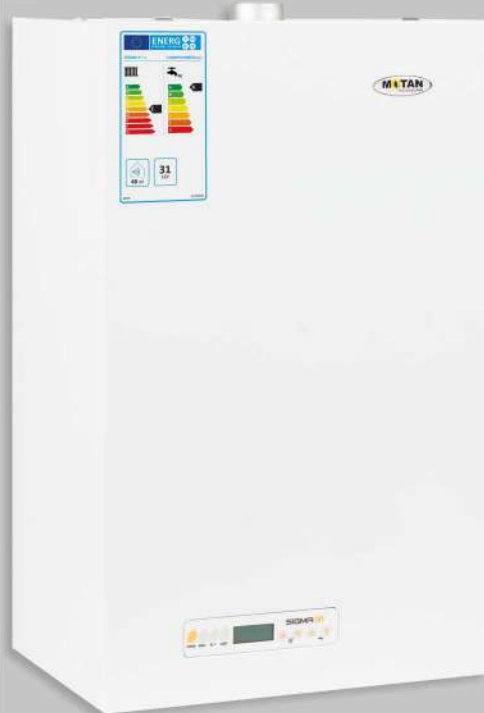
LIST OF ACCESSORIES AND OTHER MOTAN PRODUCTS COMPATIBLE WITH MAXOPTIMUS:

Product name:

- STORAGE TANK BA120L-V1
- SMART ROOM THERMOSTAT HT500
- WIRELESS ROOM THERMOSTAT HT220S SET
- ROOM THERMOSTAT HT220S
- CASCADE MODULE KOBER
- FILTER WITH TRANSFORMER - 3A
- FILTER WITHOUT TRANSFORMER - 3A
- FILTER WITHOUT TRANSFORMER - 6A
- OUTSIDE TEMPERATURE SENSOR N10
- BOILER TEMPERATURE SENSOR N10
- KIT D.60/100 CT NORMALE AMTK 700507
- DUAL KIT WITH D80 CT ATMOSPHERE ADAPTER.
- VERTICAL KIT 60/100 ROOF CT ATMOSF.
- VERTICAL KIT COAXIAL CT ADAPTER ATMOSF
- VERTICAL KIT + ADAPTER + REC CT NORMAL 71MN71213
- EXTENSION 0.5M 60/100 CT ATMOS
- EXTENSION 1M 60/100 CT ATMOS
- EXTENSION 1.5M 60/100 CT ATMOS
- EXTENSION 0.5M D80 CT ATMOS
- EXTENSION 1M D80 CT ATMOS
- 90° ELBOW 60/100 EXTENSION CT ATMOS
- 90° ELBOW D80 EXTENSION CT ATMOS
- 45° ELBOW 60/100 EXTENSION CT ATMOS

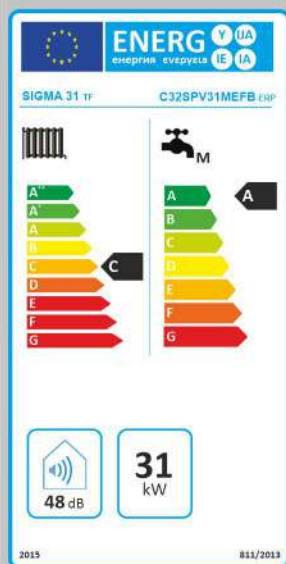


Product code: C32SPV31MEFB-ERP



CONVENTIONAL WALL HUNG GAS BOILER, 31 kW

Comfort, safety and fiability at good price



DHW superior comfort:
OVERSIZED
secondary heat
exchanger

Saving gas
and electricity
**CIRCULATION
PUMP**
-LOW ENERGY



LCD display

CE 2726₂₁

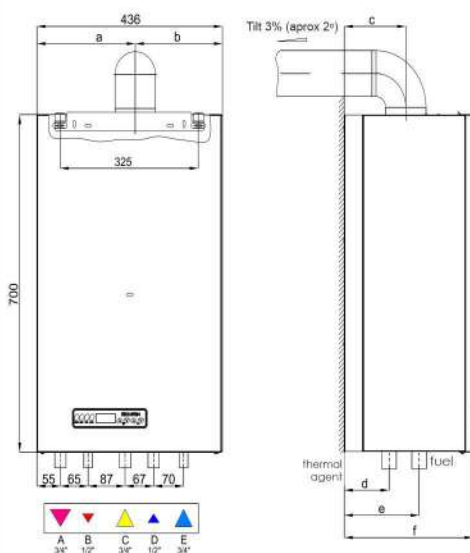
Monothermal secondary
heat exchanger for DHW

Efficiency: 93%

Compact size

Forced draft

Dimensions and mounting positions:



Dimensions (mm):

- a - 271 mm
- b - 165 mm
- c - 168 mm
- d - 129 mm
- e - 197 mm
- f - 328 mm

Legend:

- A - Thermal input connector
- B - Hot water output connector
- C - Fuel input connector
- D - Cold water input connector
- E - Thermal output connector

CLIENT ADVANTAGES:

- Constant and high efficiency;
- Low electricity consumption - low energy pump; EFFICIENCY CLASS 3 stars *** according to the European directive 92/42 / EEC; respectively class C (regulation 811-814 / 2013 for the implementation of the directive of Eco-Design (ERP Directive 2009/125 / EC) and 2** stars comfort on domestic hot water regime (EN13203); respectively class A (regulation 811-814 / 2013 for the implementation of the EcoDesign directive(ERP Directive) 2009/125 / EC);
- Easy to install due to compact size;
- Primary heat exchanger and secondary heat exchanger oversized;
- Possibility to connect a underfloor heating system;
- Low chalk deposits- hydroblock made of fiberglass-reinforced polyamide;
- Very good operating stability, for user set temperature on both circuits;
- Intelligent detection system for water flow and heat demand;
- Low emissions - class NOx 3 on natural gas;

Technical and functional characteristics

Type	C32SPV31MEFB-ERP		
Trade name	SIGMA31 TF		
Efficiency stars (dir. 92/42/CEE)	***		
Gas type	112H38/P, 12H, 12E+, 112ELL38/P, 112HS38/P		
Flue type	Forced		
Nox class (G20-12H)	4		
Thermal efficiency (G20-12H)	93.6%		
Nominal power (min./max.) (G20-12H)	9.6 - 30.8 kW		
Nominal max. consumption	≈3.51 Nm ³ /h		
Rated pressure gas input (G20-12H)	20 mbar		
Pressure (min/max) on thermal circuit	0,5 ÷ 3 bar		
Pressure (min/max) on DHW circuit	0,2 ÷ 8 bar		
Energy efficiency class on central heating circuit	C		
Temperature on thermal circuit	30 ÷ 80°C		
Temperature on thermal circuit for underfloor system	15 ÷ 45°C		
Temperature on domestic hot water circuit	35 ÷ 55°C		
Hot water flow ΔT = 30°C	14 l/min		
DHW comfort - EN13203	**		
DHW energy efficiency class	A		
Construction characteristics	Height (mm)	700	
	Width (mm)	436	
	Depth (mm)	328	
	Weight	36 kg	
	Capacity main heat exchanger	1.8 l	
	Connectors	Thermal input, output	3/4"
		Cold water input, hot water output	1/2"
		Gas input	3/4"
	Expansion vessel with membrane	8 l	
	Air/ gas incoming/ outgoing flue pipe	Coaxial D100/D60, Dual D80*	
Length of burnt gases connecting pipe	Coaxial max 3m; Dual 5m*		
Evacuation type	C ₁₂ , C ₂₂ , C ₃₂ , C ₄₂ , C ₅₂ , C ₆₂ , C ₇₂ , C ₈₂		
Burnt gases (maximum temperature)	≈129 °C		
Electric characteristics	Input	~230V/50 Hz	
	Nominal power	87 W	
	Protection class	IP 40	

* The boiler is standard delivered with 1 m co-axial flue



SIGMA 31 WALL HUNG GAS BOILER INTEGRATE COMPONENTS OF THE BEST QUALITY:

- Circulation pump GRUNDFOS (Denmark);
- Gas valve SIT (Italy);
- Burner WORGAS (Italy);
- Exhaust fan ELICA (Italy);
- Primary heat exchanger VALMEX (Italy)
- Expansion vessel ZILIO (Italy);
- Safety valve KRAMER (Italy);

CONVENTIONAL WALL HUNG GAS BOILER

LIST OF ACCESSORIES AND OTHER MOTAN PRODUCTS COMPATIBLE WITH SIGMA31:

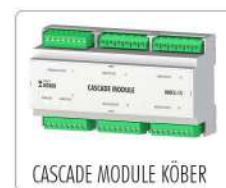
Product name:

STORAGE TANK BA120L-V1
SMART ROOM THERMOSTAT HT500
WIRELESS ROOM THERMOSTAT HT220S SET
ROOM THERMOSTAT HT220S

CASCADE MODULE KOBER
FILTER WITH TRANSFORMER - 3A
FILTER WITHOUT TRANSFORMER - 3A
FILTER WITHOUT TRANSFORMER - 6A
OUTSIDE TEMPERATURE SENSOR N10
BOILER TEMPERATURE SENSOR N10
TEMPERATURE SENSOR ST04/18/H F28

KIT D. 60/100 CT NORMAL AMTK 700507
DUAL KIT WITH D80 CT ATMOSPHERE ADAPTER.
VERTICAL KIT 60/100 ROOF CT ATMOSF.
VERTICAL KIT COAXIAL CT ADAPTER ATMOSF
VERTICAL KIT + ADAPTER + REC CT NORMAL 71MN71213
EXTENSION 0.5M 60/100 CT ATMOS
EXTENSION 1M 60/100 CT ATMOS
EXTENSION 1.5M 60/100 CT ATMOS
EXTENSION 0.5M D80 CT ATMOS
EXTENSION 1M D80 CT ATMOS
90° ELBOW 60/100 EXTENSION CT ATMOS
90° ELBOW D80 EXTENSION CT ATMOS
45° ELBOW 60/100 EXTENSION CT ATMOS

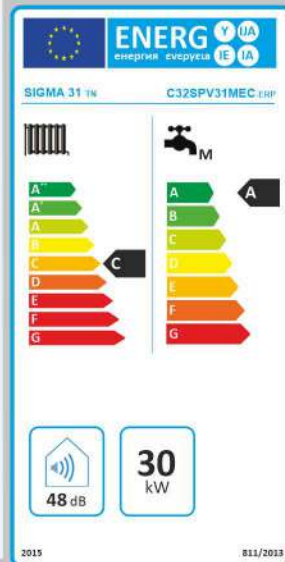
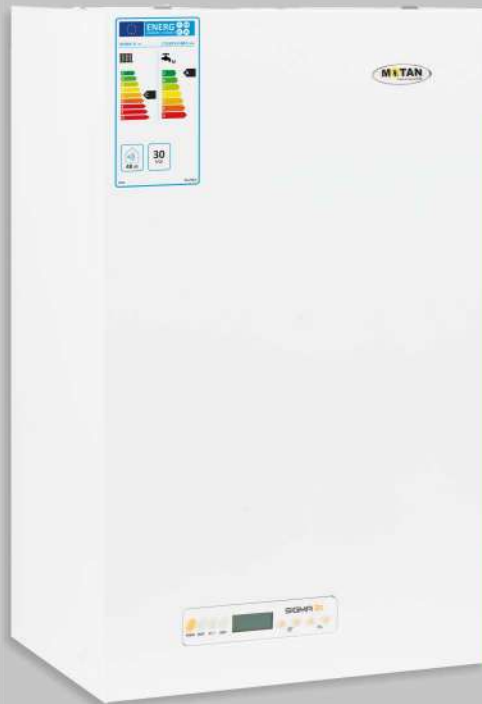
NOZZLE 0.77 MM LPG S227077
NOZZLE COPPER GASKET LPG Z144.



Product code: C32SPV31MEC-ERP

CONVENTIONAL WALL HUNG GAS BOILER, 30 kW with natural draft

Comfort, safety and fiability at good price



DHW superior comfort:
OVERSIZED
secondary heat
exchanger

Saving gas
and electricity
**CIRCULATION
PUMP**
-LOW ENERGY



LCD display

CE 2726₂₁

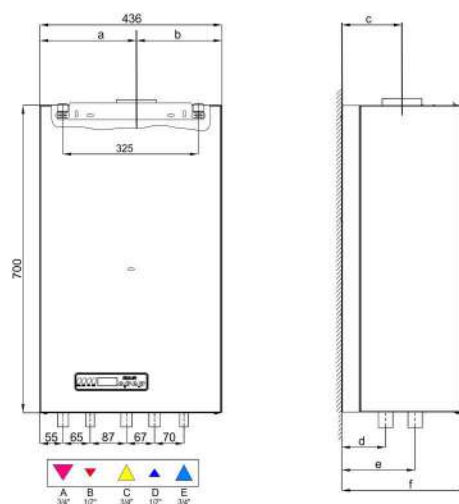
Monothermal secondary
heat exchanger for DHW

Efficiency: 93%

Compact size

Natural draft

Dimensions and mounting positions:



Dimensions (mm):

a - 218 mm
b - 218 mm
c - 194 mm
d - 129 mm
e - 197 mm
f - 328 mm

Legend:

A - Thermal input connector
B - Hot water output connector
C - Fuel input connector
D - Cold water input connector
E - Thermal output connector

CLIENT ADVANTAGES:

- Constant and high efficiency;
- Low electricity consumption - low energy pump; EFFICIENCY CLASS 3 stars *** according to the European directive 92/42 / EEC; respectively class C (regulation 811-814 / 2013 for the implementation of the directive of Eco-Design (ERP Directive 2009/125 / EC) and 2** stars comfort on domestic hot water regime (EN13203); respectively class A (regulation 811-814 / 2013 for the implementation of the EcoDesign directive(ERP Directive) 2009/125 / EC);
- Easy to install due to compact size;
- Primary heat exchanger and secondary heat exchanger oversized;
- Low chalk deposits- hydroblock made of fiberglass-reinforced polyamide;
- Very good operating stability, for user set temperature on both circuits;
- Intelligent detection system for water flow and heat demand;
- Low emissions - class NOx 3 on natural gas;

Technical and functional characteristics

Type	C32SPV31MEC-ERP		
Trade name	SIGMA31 TN		
Efficiency stars (dir. 92/42/CEE)	***		
Gas type	112H3B/P, 12H, 12E+, 112ELL3B/P, 112HS3B/P		
Flue type	Natural		
Nox class (G20-12H)	3		
Thermal efficiency (G20-12H)	93.7%		
Nominal power (min./max.) (G20-12H)	10 - 30 kW		
Nominal max. consumption	≈3,44 Nm ³ /h		
Rated pressure gas input (G20-12H)	20 mbar		
Pressure (min/max) on thermal circuit	0,5 ÷ 3 bar		
Pressure (min/max) on DHW circuit	0,2 ÷ 8 bar		
Energy efficiency class on central heating circuit	C		
Temperature on thermal circuit	30 ÷ 80°C		
Temperature on thermal circuit for underfloor system	15 ÷ 45°C		
Temperature on domestic hot water circuit	35 ÷ 55°C		
Hot water flow ΔT = 30°C	14.5 l/min		
DHW comfort - EN13203	**		
DHW energy efficiency class	A		
Construction characteristics	Height (mm)	700	
	Width (mm)	436	
	Depth (mm)	328	
	Weight	31 kg	
	Capacity main heat exchanger	1,8 l	
	Connectors	Thermal input, output	3/4"
		Cold water input, hot water output	1/2"
		Gas input	3/4"
	Expansion vessel with membrane	8 l	
	Air/ gas incoming/ outgoing flue pipe	D125	
Length of burnt gases connecting pipe	Minim 1 m + cos		
Evacuation type	B ₁₁		
Burnt gases (maximum temperature)	≈111 °C		
Electric characteristics	Input	~230V/50 Hz	
	Nominal power	72 W	
	Protection class	IP 40	



SIGMA31 TN WALL HUNG GAS BOILER INTEGRATE COMPONENTS OF THE BEST QUALITY:

- Circulation pump GRUNDFOS (Denmark);
- Gas valve SIT (Italy);
- Burner WORGAS (Italy);
- Exhaust fan ELICA (Italy);
- Primary heat exchanger VALMEX (Italy)
- Expansion vessel ZILIO (Italy);
- Safety valve KRAMER (Italy);

CONVENTIONAL WALL HUNG GAS BOILER

LIST OF ACCESSORIES AND OTHER MOTAN PRODUCTS COMPATIBLE WITH SIGMA31 TN:

Product name:

- STORAGE TANK BA120L-V1
- SMART ROOM THERMOSTAT HT500
- WIRELESS ROOM THERMOSTAT HT220S SET
- ROOM THERMOSTAT HT220S
- CASCADE MODULE KOBER
- FILTER WITH TRANSFORMER - 3A
- FILTER WITHOUT TRANSFORMER - 3A
- FILTER WITHOUT TRANSFORMER - 6A
- OUTSIDE TEMPERATURE SENSOR N10
- BOILER TEMPERATURE SENSOR N10



Product code: BA120L-V1



DHW STORAGE TANK

High DHW comfort

Capacity
120 liters

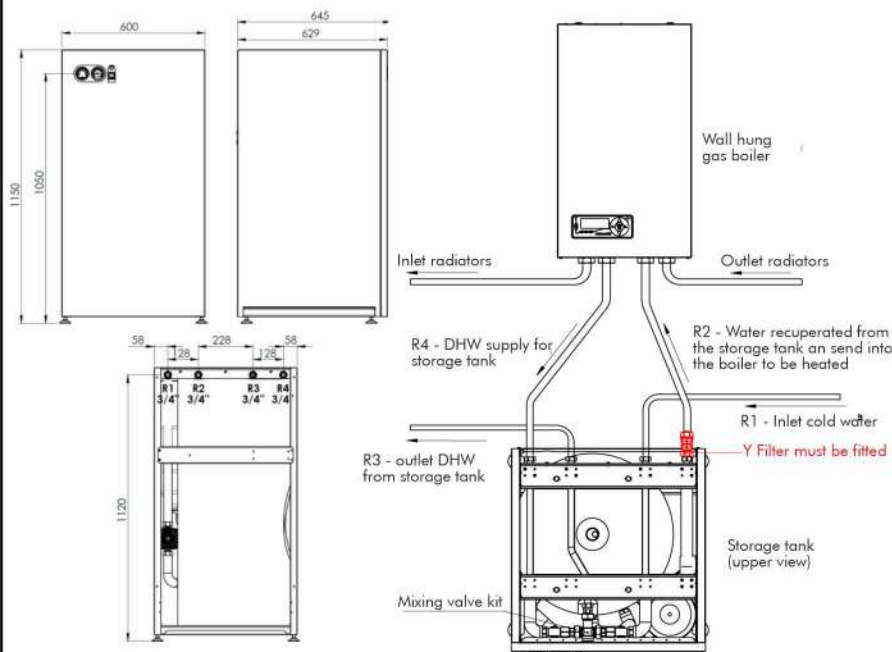
PU foam
thermo-insulation

STAINLESS STEEL
tank

Equipped with
Mixing Valve kit with
anti-damping function



Dimensions and mounting positions:



CLIENT ADVANTAGES:

- The storage tank is made from stainless steel, this fact assures 10 years medium lifetime, through the shocks and corrosion resistance, also the quality of stored domestic hot water;
- STORAGE mode tank. Must be attached to a boiler which produces domestic hot water. Results an assembly: gas boiler and storage tank - with a superior efficiency and comfort;
- Store the volume of water at temperatures up to 75-78°C which leads to a considerable increase in the time of use of stored domestic hot water. This also eliminates the risk of occurrence of legionella bacteria;
- Temperature losses are considerably reduced, due to the use of a high quality insulation, from polyurethane foam;
- COMPACT product with incorporate the safety elements: expansion vessel (8l), safety valve (8 bar) and command and control elements: control panel (thermostat and thermometer), and also circulation pump and drain valve;
- Supplementary anti-corrosion protection, assured by magnesium anode, with Ca and Mg ions attraction function;

Technical and functional characteristics

Name	DHW Storage Tank
Type	BA120L-V1
Maximum level of noise	< 50 dB(A)
Capacity of storage domestic hot water	120 liters
DHW maximum pressure	8 bar
Recommended maximum input pressure	5 bar
Maximum input DHW temperature	60°C
User output DHW temperature (the temperature is adjusted by the mixing valve kit)	30 - 50°C
User output DHW temperature set from the factory	≈ 45°C
Storage minimum temperature	5°C
Expansion vessel with membrane	8 liters
Loading pressure for the expansion vessel	3,5 bar
Electric characteristics	230V/50Hz - 135W
Netto weight (without water)	61 kg
Connections:	
Inlet domestic cold water	3/4 "
Outlet domestic hot water	3/4 "
Outlet/Inlet circulation water	3/4 "
Dimensions:	
Depth (mm):	645
Length (mm):	600
Height (mm):	1150


Mixing Valve kit FUNCTIONS:

- reduces the temperature of the point of use to a value lower than that of storage in the boiler to be suitable for domestic use;
- ensures high thermal performance and is able to precisely control the temperature of the water mixture supplied in case of variations in pressure, temperature or flow;
- anti-damping function which immediately stops the hot water flow in the event of a cold water supply failure.

Technical specification of mixing valve:

Water outlet temperature - range	30-50°C
Precision	+/- 2°C
Maximum working pressure (static)	10 bar
Maximum working pressure (dynamic)	5 bar
Maximum inlet temperature	85°C
Maximum inlet pressure ratio	6:1
Minimum temperature difference between hot water inlet and mixed water outlet to ensure anti-rust	10°C
Minimum flow for optimum performance	4 l/min

LIST OF ACCESSORIES AND OTHER MOTAN PRODUCTS COMPATIBLE WITH DHW STORAGE TANK BA120L-V1:
Product name:

CONDENS 100 PLUS 25 Wall Hung Gas Boiler
 CONDENS 100 PLUS 29 Wall Hung Gas Boiler
 CONDENS 100 PLUS 35 Wall Hung Gas Boiler
 CONDENS 100 25 Wall Hung Gas Boiler
 CONDENS 050 24 Wall Hung Gas Boiler
 CONDENS 050 28 Wall Hung Gas Boiler
 KPLUS Wall Hung Gas Boiler
 KPLUS TN Wall Hung Gas Boiler
 SIGMA24 Wall Hung Gas Boiler
 SIGMA24 TN Wall Hung Gas Boiler
 MAXOPTIMUS Wall Hung Gas Boiler
 SIGMA31 Wall Hung Gas Boiler
 SIGMA31 TN Wall Hung Gas Boiler
 BOILER TEMPERATURE SENSOR N10



Product code: BP120L-V1



DHW STORAGE CYLINDER WITH SINGLE COIL

High WHW comfort

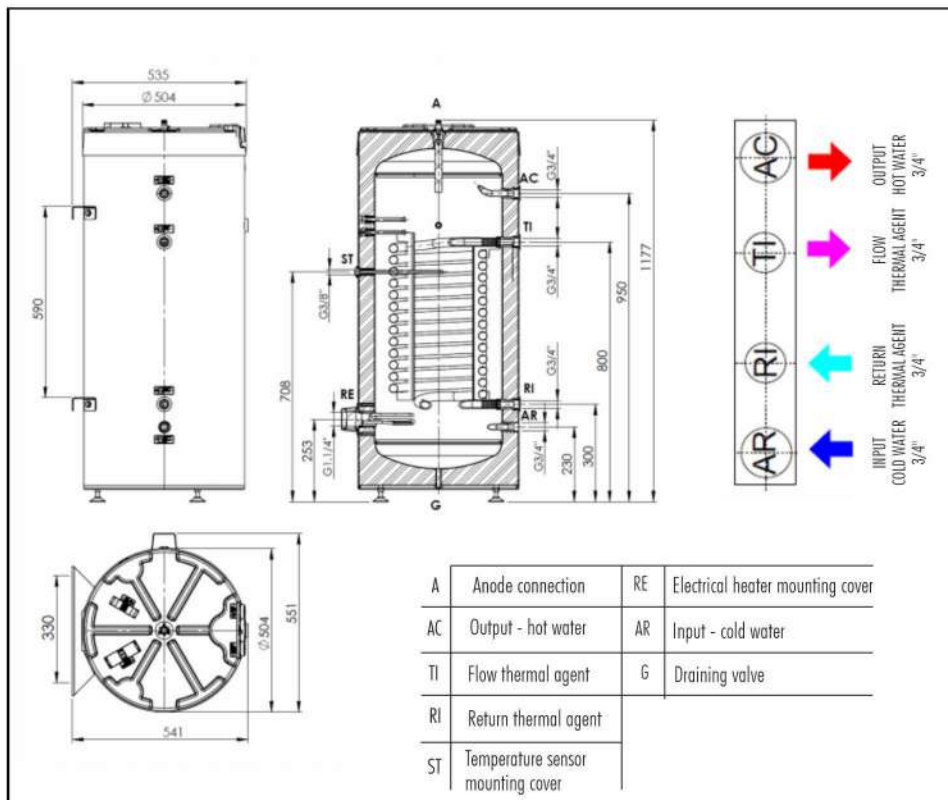
Cylinder Capacity
120 liters

Exchange POWER
in continuous mode
(max coil output):
35,7 kW

STAINLESS STEEL
cylinder and coil

Equipped with
Mixing Valve kit with
anti-damping function



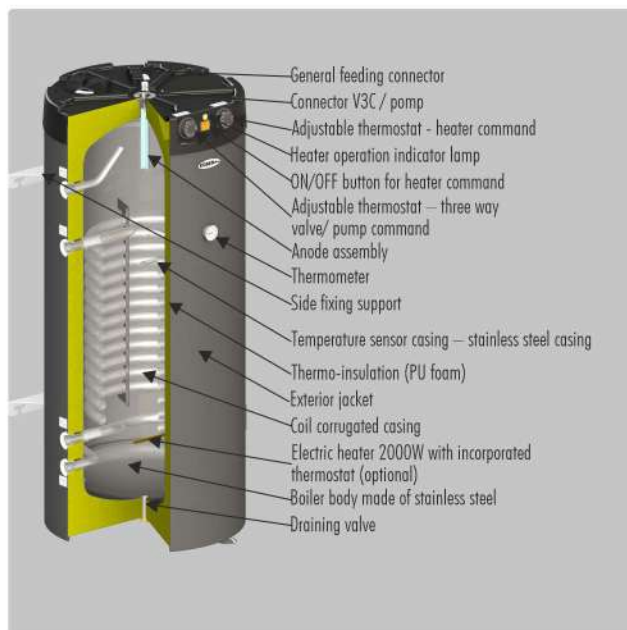


CLIENT ADVANTAGES:

- The body of the cylinder and the corrugated coil pipe are made from 316L stainless steel and the welds are made by TIG process, which confer by corrosion resistance a long life operation time, which also complies with all the DHW regulations;
- Another element that contributes decisively to the corrosion resistance is the PASSIVATION process of the welding seams;
- BP120L-V1 DHW storage cylinder with single coil, is intended for preparing and storing hot water hygienically comfortable and economically, using energy from the solar collectors or boiler and / or electric immersion heater. The boiler is equipped to run only upright both on the ground or fixed on the wall;
- Temperature losses are considerably reduced, due to the use of a high quality insulation, from polyurethane foam;
- Heating a large volume of water due to surface of the corrugated coil pipe reaching to the bottom of the cylinder;
- It can be used in the bivalent preparation of domestic hot water, combination between a boiler and electric immersion heater;

Technical and functional characteristics

Name	DHW storage cylinder
Type	BP120L V1
Cylinder capacity	120 liters
DHW maximum temperature	60°C
Maximum temperature of the primary thermal agent circuit	80°C
Recommended maximum input pressure	5 bar
Dimensions:	
Depth (mm)	551
Length (mm)	541
Height (mm)	1177
Netto weight (without water)	≈50 kg
Thermal agent capacity	3,5 liters
Coil heating surface	1,92 m ²
Connections:	
Coil, thermal agent flow connection	3/4 "
Coil, thermal agent return connection	3/4 "
Cold water input, hot water output	3/4 "
Electrical heater	1,1/4 "


Mixing Valve kit FUNCTIONS:

- reduces the temperature at the point of use to a value lower than that of storage in the boiler to be suitable for domestic use;
- ensures high thermal performance and is able to precisely control the temperature of the water mixture supplied in case of variations in pressure, temperature or flow;
- anti-damping function which immediately stops the hot water flow in the event of a cold water supply failure.

Technical specification of mixing valve:

Water outlet temperature - range	30-50°C
Precision	+/- 2°C
Maximum working pressure (static)	10 bar
Maximum working pressure (dynamic)	5 bar
Maximum inlet temperature	85°C
Maximum inlet pressure ratio	6:1
Minimum temperature difference between hot water inlet and mixed water outlet to ensure anti-rust	10°C
Minimum flow for optimum performance	4 l/min

LIST OF ACCESSORIES AND OTHER MOTAN PRODUCTS COMPATIBLE WITH DHW STORAGE CYLINDER BP120L-V1:
Product name:

MKDENS35 CH1

(wall hung gas boiler only for heating, with 3-way valve)

MKDENS35 CH2

(wall hung gas boiler only for heating, without 3-way valve)

BOILER TEMPERATURE SENSOR N10



Product code: HT500 SET



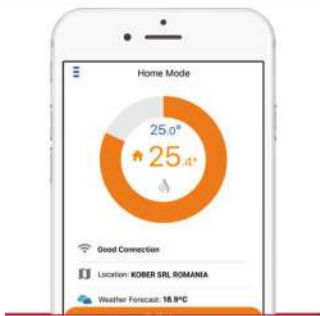
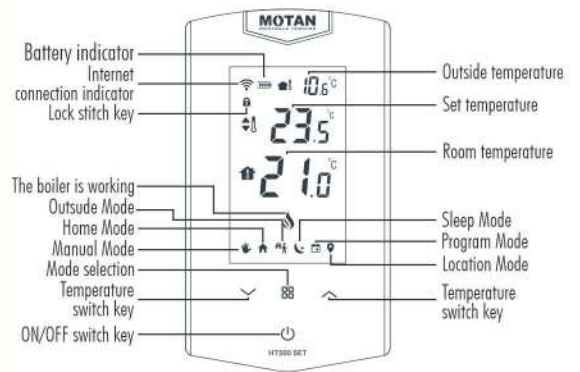
**SMART ROOM THERMOSTAT
(WIRELESS, INTERNET CONTROL)**

- Temperature control via mobile App
- Wireless room thermostat
- Outside temperature indicator
- Digital LCD display with backlight

Manual Mode Home Mode Outside Mode Sleep Mode Program Mode Location Mode

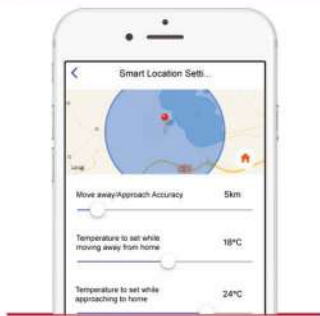
Available App, in App Store and Google Play

TECHNICAL DATA	
Feeding voltage (usage with adapter)	5V (DC)
Feeding voltage (usage with battery)	3V (DC)
Maximum load current (usage with adapter)	500 mA
Maximum load current (usage with battery)	80 mA
Dimensions	131 mm/74 mm/25.5 mm
Temperature measurement sensitivity	0.1°C
Operating sensitivity	0.5°C
Wi-Fi connection frequency	Wi-Fi 802.11 b/g/n @ 2.4GHz
Communication distance	100 m (open space)
Operating temperature	(-10°C) - 50°C
Storage temperature	(-20°C) - 60°C
RECEIVER TECHNICAL DATA	
Operating current	220V (AC)
Relay NO switching current	7A (220V AC)
Storage temperature	(-10°C) - 50°C
Dimensions	85 mm/90 mm/28.5 mm
Storage temperature	(-20°C) - 60°C



Control with mobile App

Control your home temperature with your SMART Thermostat wherever you are in the world.



SMART location feature

Through the location feature, you can decrease the temperature of your home when you move away from home, or you can increase the temperature of your home when you approach.



History data reports

Ht500 SE SMART room thermostat allows you to graphically view the working hours of your heating unit, the temperature of your home and outside temperature according to the data range selected from the mobile app.

Product code: HT220S SET and HT220S

HT220S SET

WIRELESS ROOM THERMOSTAT

HT250S SET is a wireless room thermostat.

You can increase the temperature of your room with required temperature setting manually, so you can provide both saving and comfort.



Wireless connection

Sensitive temperature control

Heating calibration

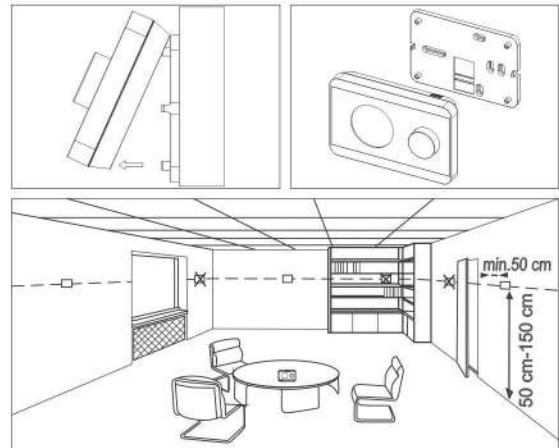
ON/OFF control

TECHNICAL DATA

Operating current	3V ± 0.2V (DC)
Operating sensitivity	± 0.5°C
Operating temperature range	5°C - 30°C
Storage temperature	(-10°C) - 50°C
Dimensions	88 mm/136 mm/34 mm

RECEIVER TECHNICAL DATA

Operating current	220V AC
Relay NO switching current	7A (220V AC)
Storage temperature	(-10°C) - 50°C
Dimensions	88 mm/136 mm/34 mm



HT220S WIRED ROOM THERMOSTAT

HT220S is a wired room thermostat

You can increase the temperature of your room with required temperature setting manually, so you can provide both saving and comfort

Sensitive temperature control

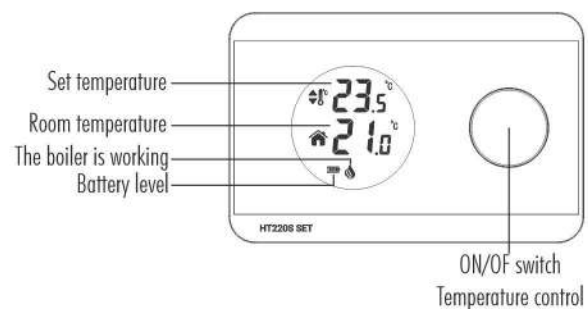
Heating calibration

Wired connection

ON/OFF control

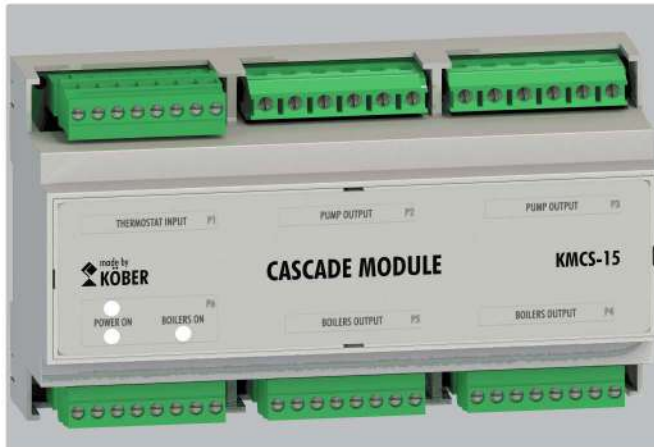
TECHNICAL DATA

Operating current	3V ± 0.2V (DC)
Relay NO switching current	8A
Operating sensitivity	± 0.5°C
Operating temperature range	5°C - 30°C
Storage temperature	(-10°C) - 50°C
Dimensions	88 mm/136 mm/34 mm



KÖBER CASCADE MODULE

Product code: KMCS-15



The KMCS cascade module is a device that meets the requirements of SR EN 60335-1, which can control up to 8 MOTAN wall hung gas boilers cascade. It can be used for the heat distribution in 5 zones independently controlled by room thermostats.

Characteristics:

- Possibility to connect to both the KMCS source manufactured by S.C.Köber S.R.L. at 17 VDC respectively 35 VDC and at a universal 24 VDC source.
- Three LEDs for viewing the presence of working voltage.
- Five analogue inputs designed specifically for ambient room thermostats.
- Five power outputs for controlling the 5 zones (pumps, electrovalve, etc.).
- Eight outlets for controlling up to eight cascade-connected thermal wall hung gas boilers
- Possibility of DIN rail mounting.

Technical specification:

- Power supply: -17VDC and 35 VDC (use KMCS power supply module, product of S.C. Köber S.R.L.), or 24 VDC (use 24 VDC/10W min power supply).
- Operating temperature: -20°C / +60°C
- Protection class: IP 40
- Dimensions: 158x90x58 mm (9 DIN module)

Electrical specification

- Power contacts
- Maximum voltage: 250VAC, 30VDC
- Maximum electric current: 10A
- Maximum power: 2500VA, 300W

POWER-SYSTEM PROTECTION MODULE FOR KÖBER CASCADE MODULE

Product code: KMCS-03A



The KMCS-03A module is a device that can be used to protect the power supply of electronic devices against electromagnetic disturbances, anti-surges and surges in the electrical system. Special varistors operate both in the typical network, as well as in dangerous asymmetrical voltages. The filter absorbs the high impulse very well, with a very short response time. This module was specifically designed to be used with the KÖBER KMCS cascading module.

Characteristics:

- The KMCS-03A module can also be used in various applications that suit its features.
- Dual filter for power-system protections improved performance.
- Possibility of DIN rail mounting.
- Module power supply to 230 VAC (-15%/+10%):
-U min = 195 VAC (-15%);
-U max = 253 VAC (+10%).

Technical specifications:

Parameters	KMCS-03A
Filter voltage	230VAC
Filter current	3A
Filter frequency	50 Hz
Maximum voltage	275VAC
Protection level L(N)->PE	<1KV
Inductance	2,7 mH (L, N)
Current absorbed	0,5mA
Capacitor L->N	0,5uF

Capacitor L(N)->PE	4,7nF
resistance	60m Ω
Working temperature	-25°C/+85°C
Weight	130g
Rail mounting	DIN-RAIL TH-35
KMCS-XXA module outputs:	
F1: U(f1) = 230VAC	Out A: Ua = 35VDC
I(f1) = 3A	I(a) = 1A
F2: U(f2) = 230VAC	Out B: Ub = 17 VDC
I(f2) = 1.2A	I(a) = 1A

POWER-SYSTEM PROTECTION MODULE

Product code: **KLSP-XXA-15**



The KLSP-3A-15 / KLPS-6A-15 module is a device that can be used to:

- protect the power supply of electronic devices;
- against electromagnetic disturbances;
- anti-surge protection and overvoltage protection in the electrical system on electronic devices;

Varistors operate both in the typical power network and in dangerous symmetric voltages, which often occur simultaneously with asymmetrical voltages. The filter absorbs the height impulses very well, with a very short response time.

Characteristics:

- Dual filter for power-system protection improved performance
- Possibility of DIN rail mounting.
- Module power supply to 230 VAC (-15%/+10%):
 $U_{min} = 195 \text{ VAC} (-15\%)$; $U_{max} = 253 \text{ VAC} (+10\%)$.

KLSP-3A-15 / KLPS-6A-15 module outputs :

- F1 : U (f1) = 230 VAC
 $I (f1) = 3 \text{ A} / 6 \text{ A}$
- F2 : U (f2) = 230 VAC
 $I (f2) = 1,2 \text{ A}$

Technical specifications:

Parameter	KLSP-03-15	KLSP-06A-15
Filter voltage	230VAC	230VAC
Filter current	3A	6A
Filter frequency	50 Hz	50 Hz
Maximum voltage	253VAC	253VAC
Protection level L(N) ->PE	<1KV	<1KV
Inductance	2,7 mH (L, N)	1 mH (L, N)
Current absorbed	0,5 mA	0,5 mA
Capacitor L ->N	0,54uF	0,54uF
Capacitor L(N)->PE	4,7nF	4,7nF
Resistance	<100m Ω	<50m Ω
Working temperature	-10 \div +60°C	-10 \div +60°C
Weight	130g	130g
Rail mounting	DIN-RAIL TH-35	DIN-RAIL TH-35

OTHER ACCESSORIES (for compatibility with certain boiler models, please contact a technical consultant):

Accessories for conveying exhaust gases from CONDENSING boilers

COAXIAL EXHAUSTING FLUE 60/100 CT CONDENS
 DUAL EXHAUSTING FLUE D80 CT CONDENS
 ROOF VERTICAL EXHAUSTING FLUE 60/100 CT CONDENS
 ADAPTOR FOR ROOF VERTICAL EXHAUSTING FLUE CT CONDENS
 EXTENSION 0,5M 60/100 CT CONDENS
 EXTENSION 1M 60/100 CT CONDENS
 EXTENSION 1.5M 60/100 CT CONDENS
 EXTENSION 0,5M D80 CT CONDENS
 EXTENSION 1M D80 CT CONDENS
 90° ELBOW 60/100 EXTENSION CT CONDENS
 90° ELBOW D 80 EXTENSION CT CONDENS
 45° ELBOW 60/100 EXTENSION CT CONDENS

OTHER ACCESSORIES

NOZZLE 0.77 MM LPG S227077
 OUTSIDE TEMPERATURE SENSOR N10
 BOILER TEMPERATURE SENSOR N10
 NOZZLE COPPER GASKET LPG Z144
 MAGNETIC FILTER IVANCI G0201
 MAGNETIC FILTER PINTOSI + C 9085

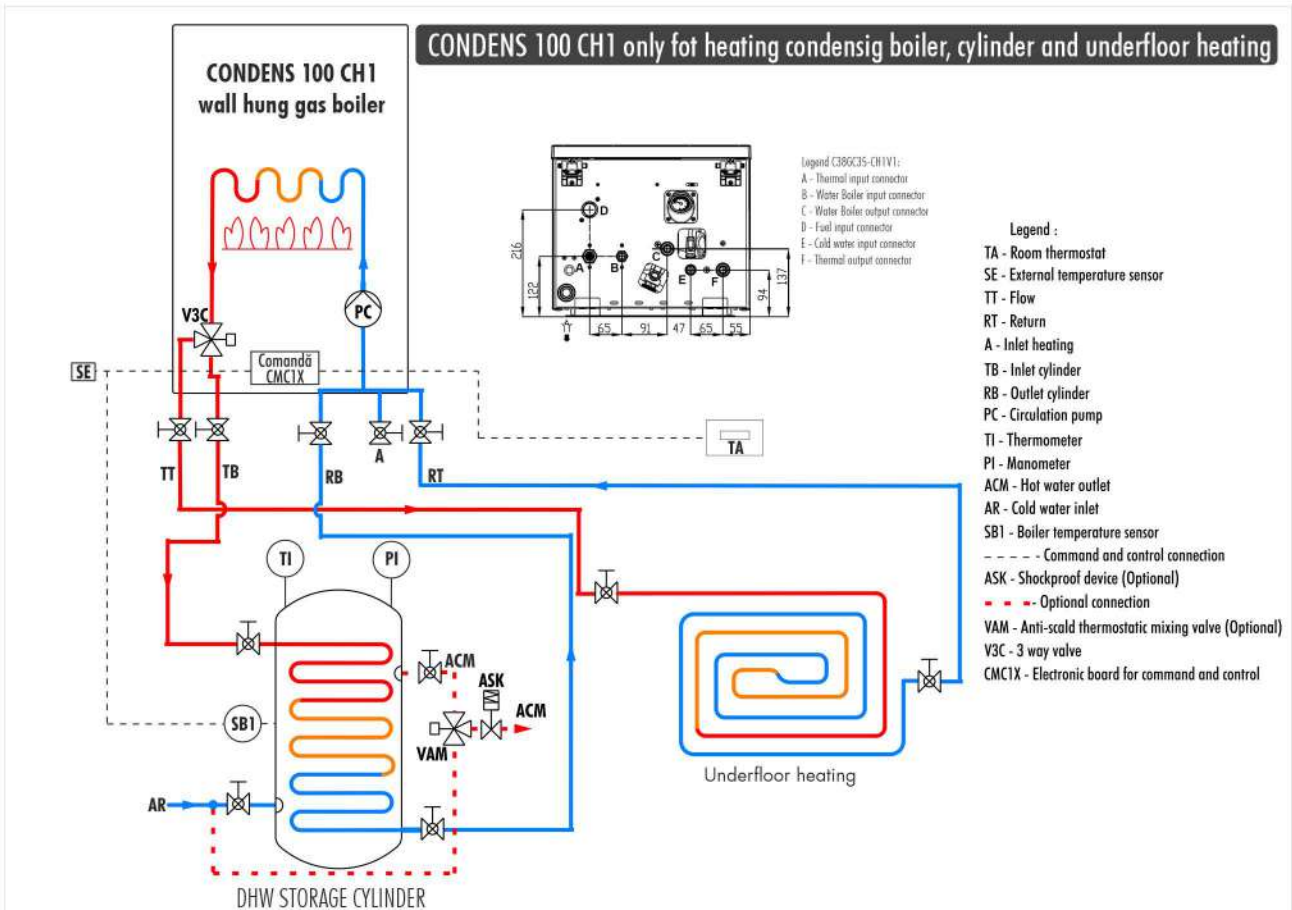
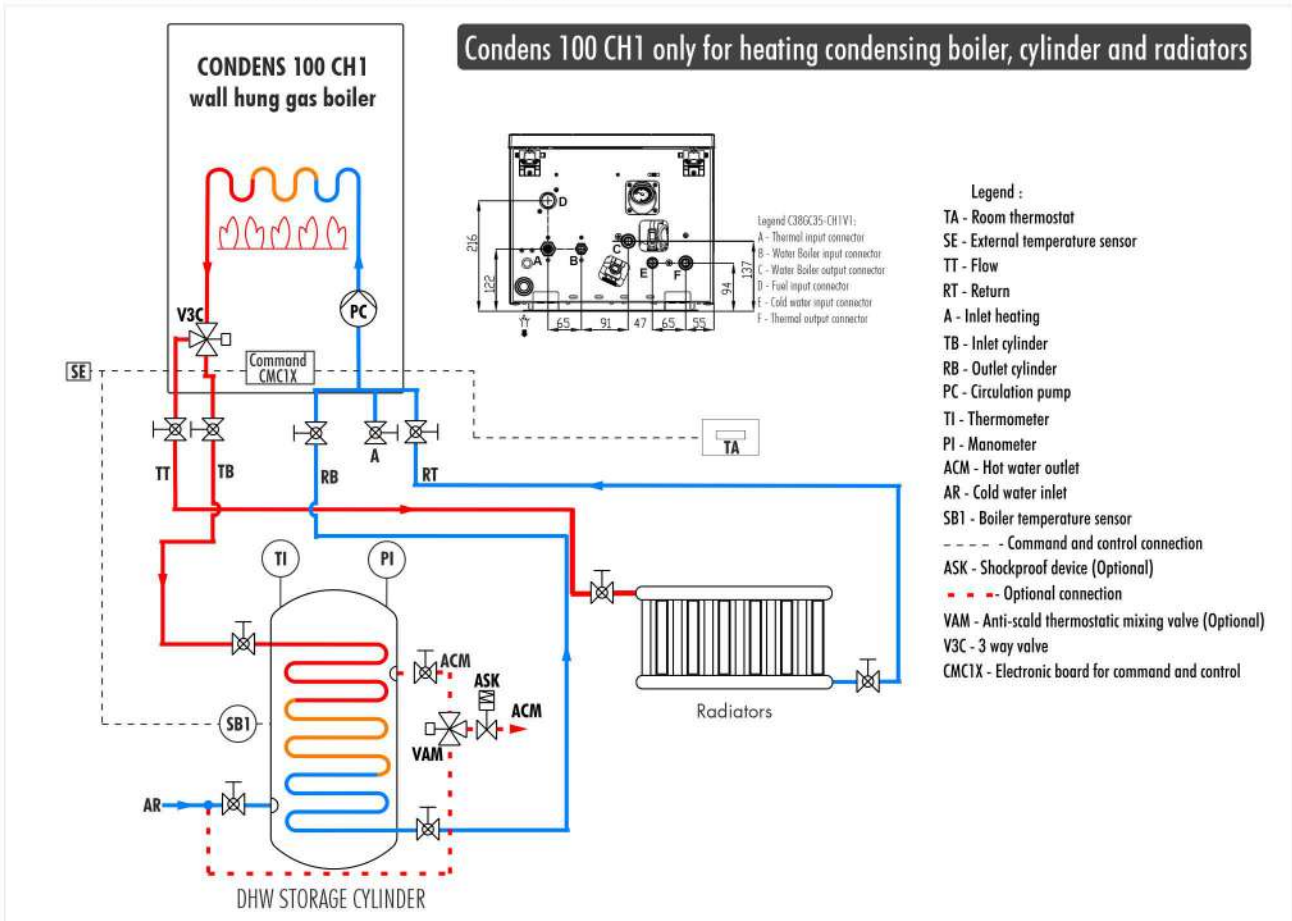
Accessories for conveying exhaust gases from CONVENTIONAL boilers

FLUE D.60/100 CT CONVENTIONAL ANTK 700507
 DUAL FLUE WITH ADAPTOR D80 CT CONVENTIONAL.
 VERTICAL ROOF FLUE 60/100 CT CONVENTIONAL.
 ADAPTOR COAXIAL CT CONVENTIONAL
 EXTENSION 0,5M 60/100 CT CONVENTIONAL
 EXTENSION 1M 60/100 CT CONVENTIONAL
 EXTENSION 1.5M 60/100 CT CONVENTIONAL
 EXTENSION 0,5M D80 CT CONVENTIONAL
 EXTENSION 1M D80 CT CONVENTIONAL
 90° ELBOW 60/100 EXTENSION CT CONVENTIONAL
 90° ELBOW D 80 EXTENSION CT CONVENTIONAL
 45° ELBOW D 80 EXTENSION CT CONVENTIONAL

Operation diagrams and installation option, using CONDENS 100 CH1 - only for heating boilers:

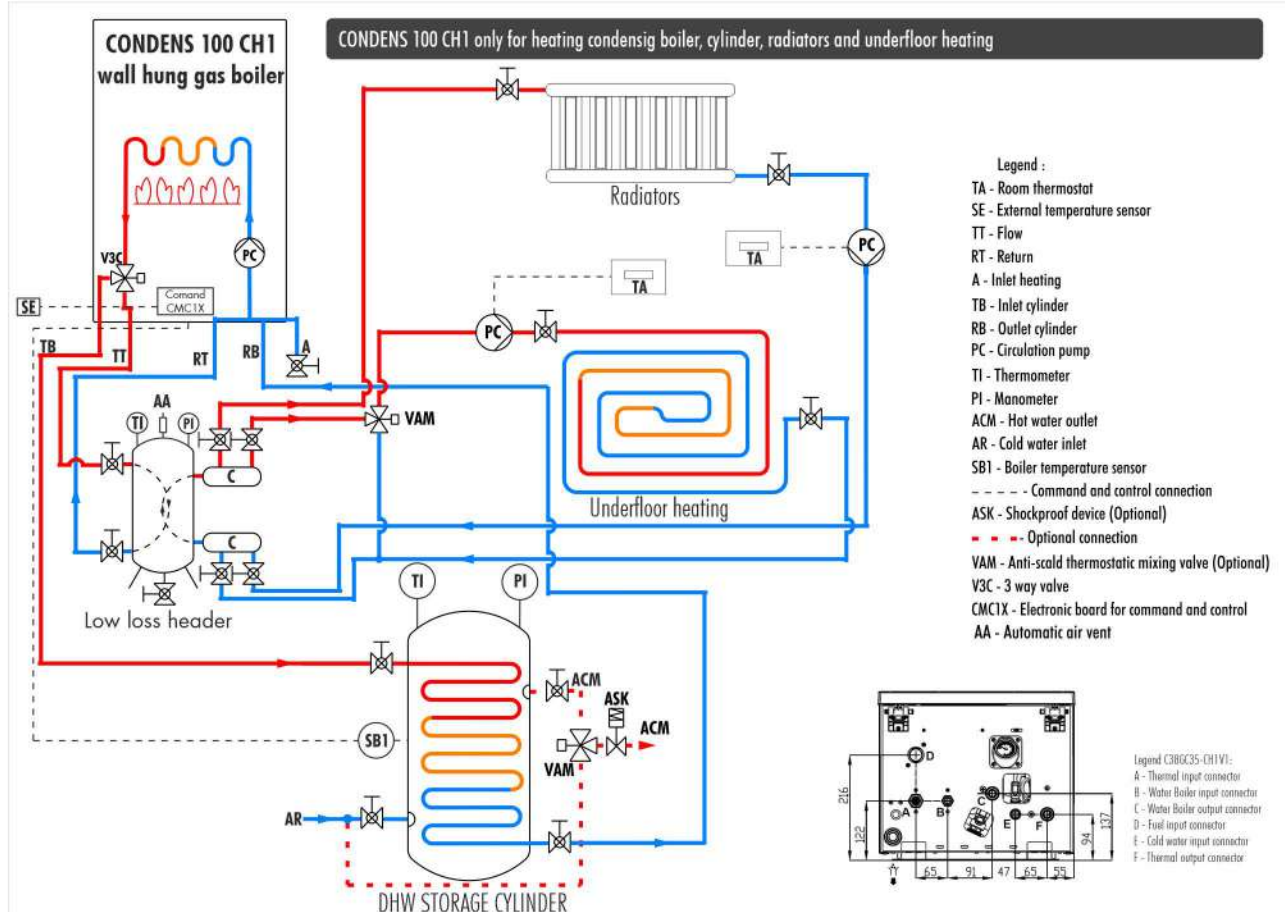
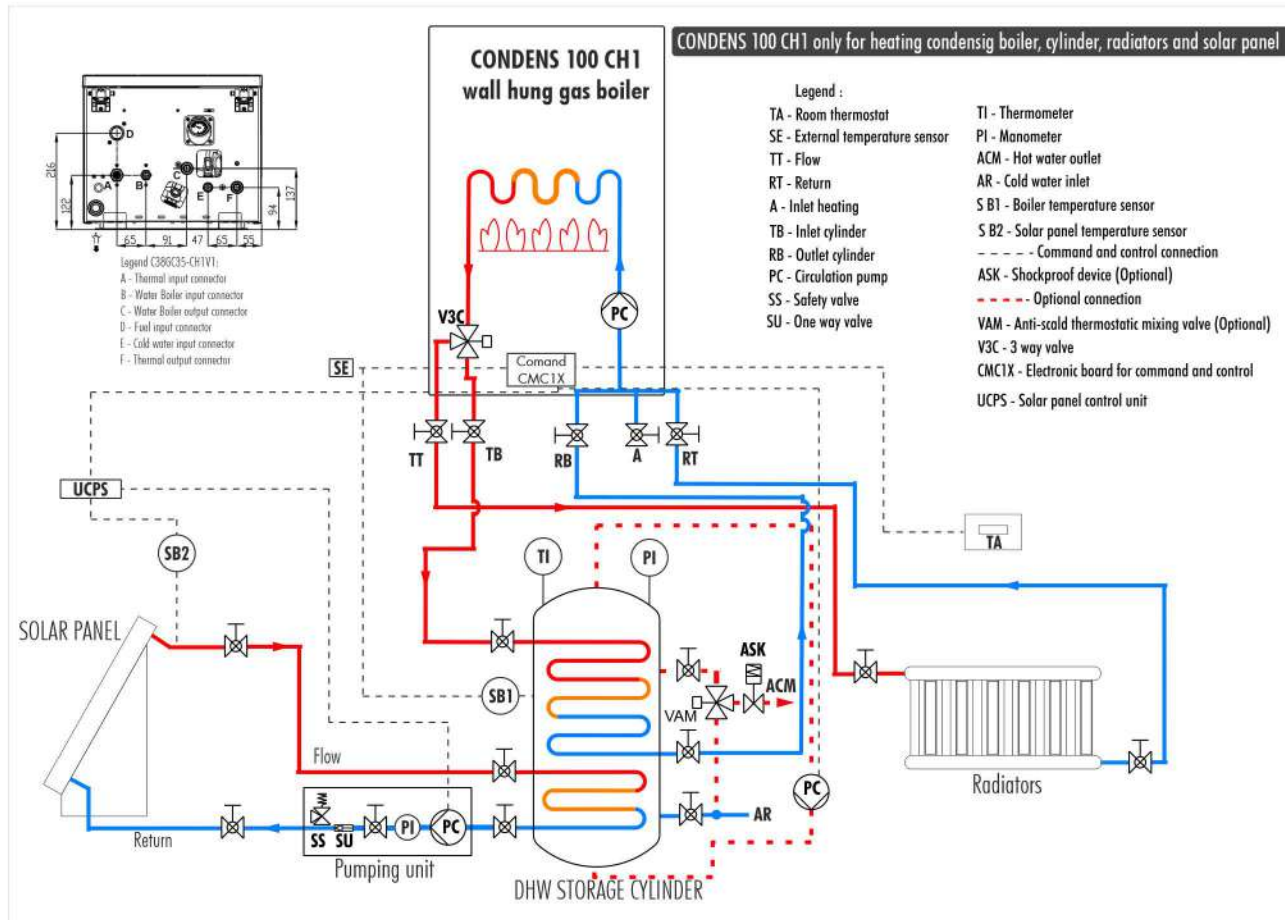
CONDENS 100 CH1

Condensing wall hung gas boiler, 35kW, only for heating, with 3-way valve



CONDENS 100 CH1

Condensing wall hung gas boiler, 35kW, only for heating, with 3-way valve

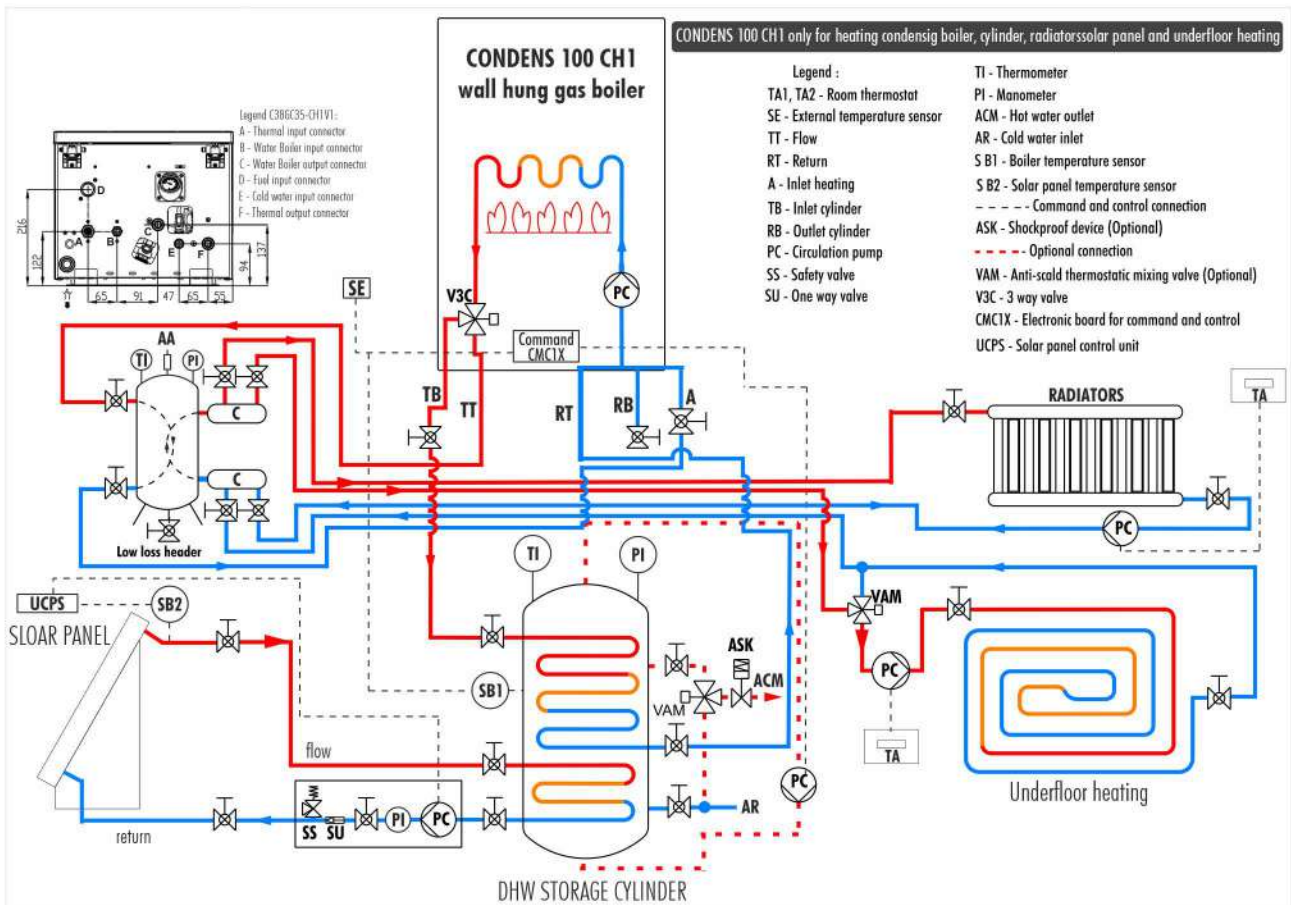
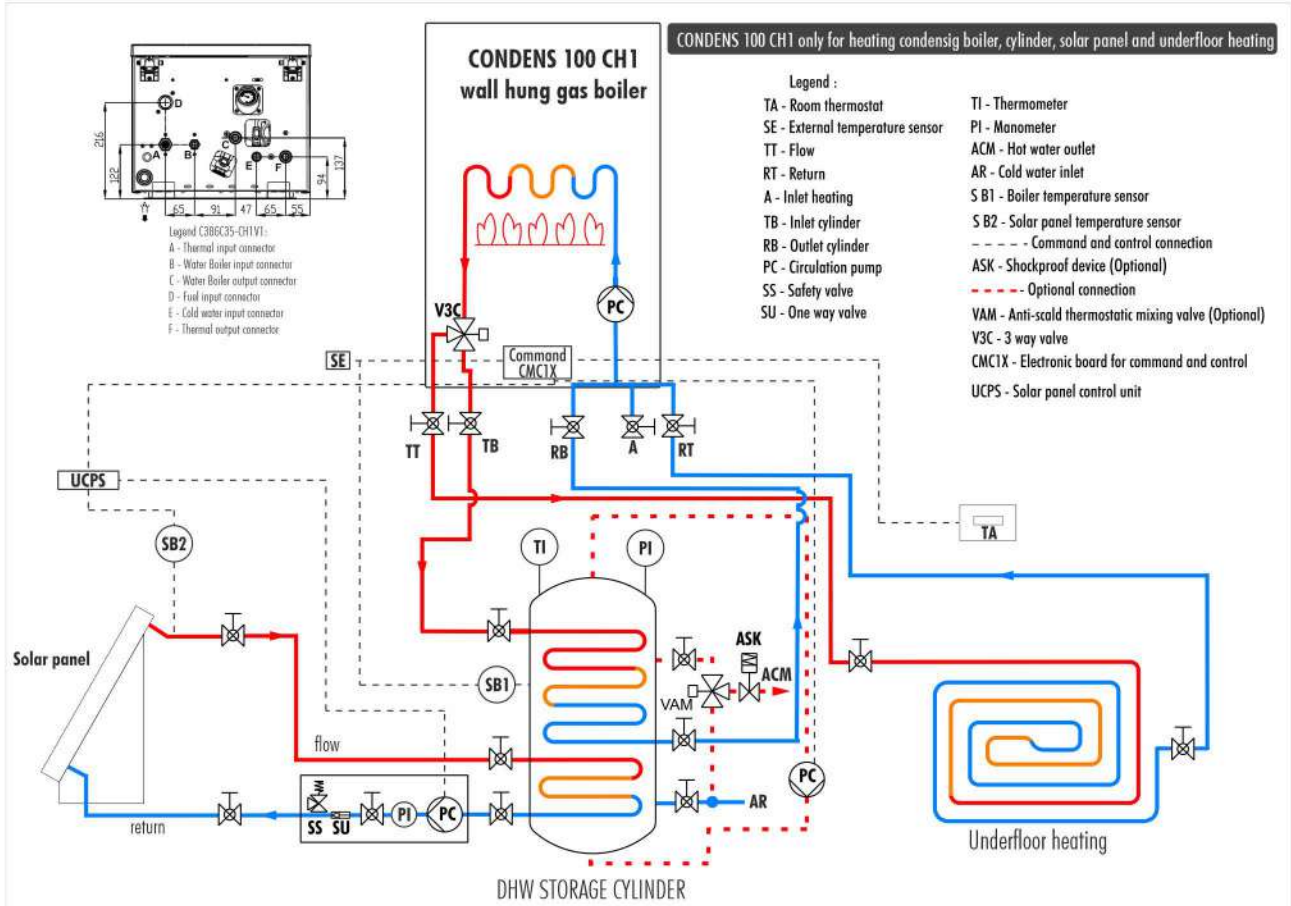


MOUNTING AND INSTALLATION OPTIONS

Operation diagrams and installation option, using CONDENS 100 CH1 - only for heating boilers:

CONDENS 100 CH1

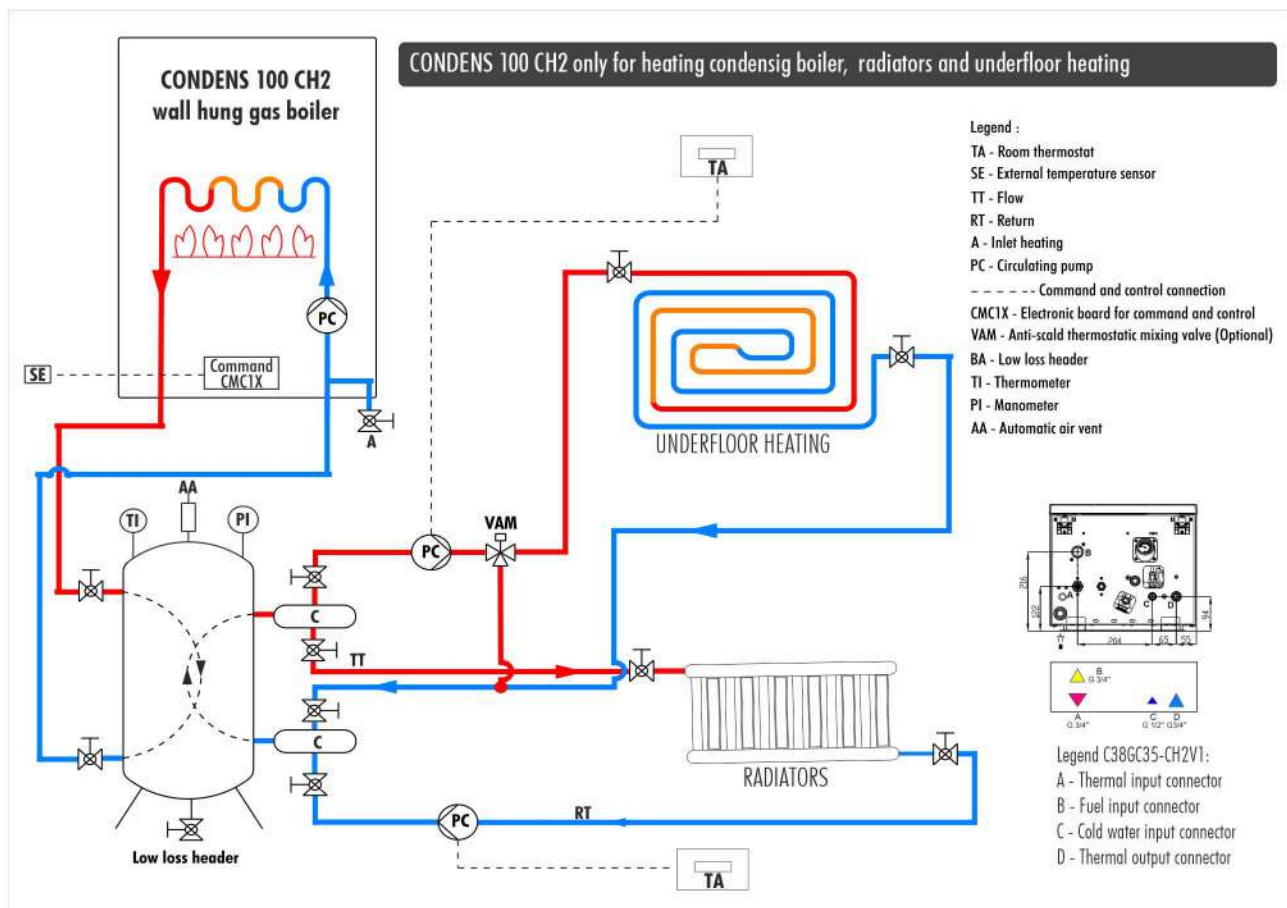
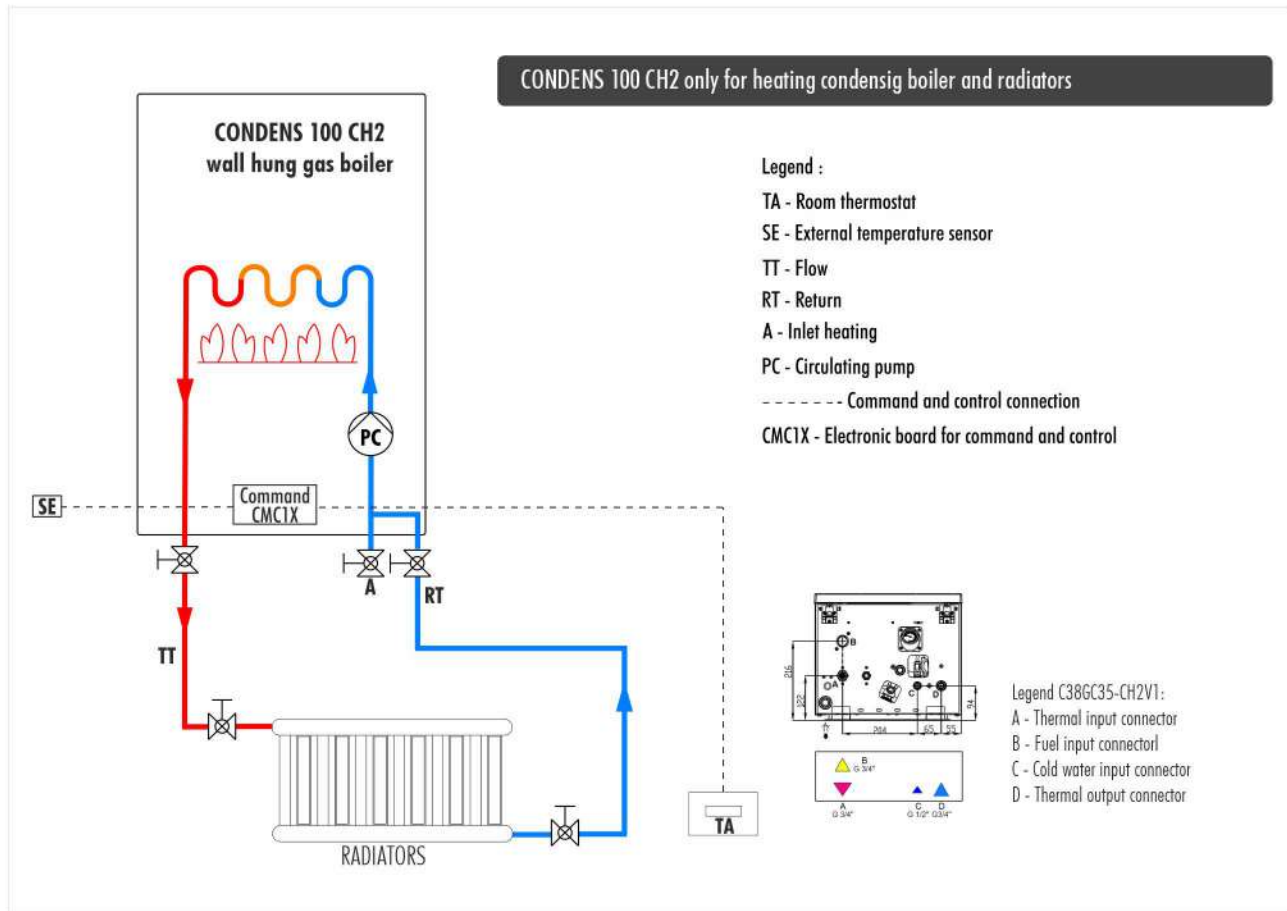
Condensing wall hung gas boiler, 35kW, only for heating, with 3-way valve



Operation diagrams and installation option, using CONDENS 100 CH2 - only for heating boilers:

CONDENS 100 CH2

Condensing wall hung gas boiler, 35kW, only for heating, without 3-way valve

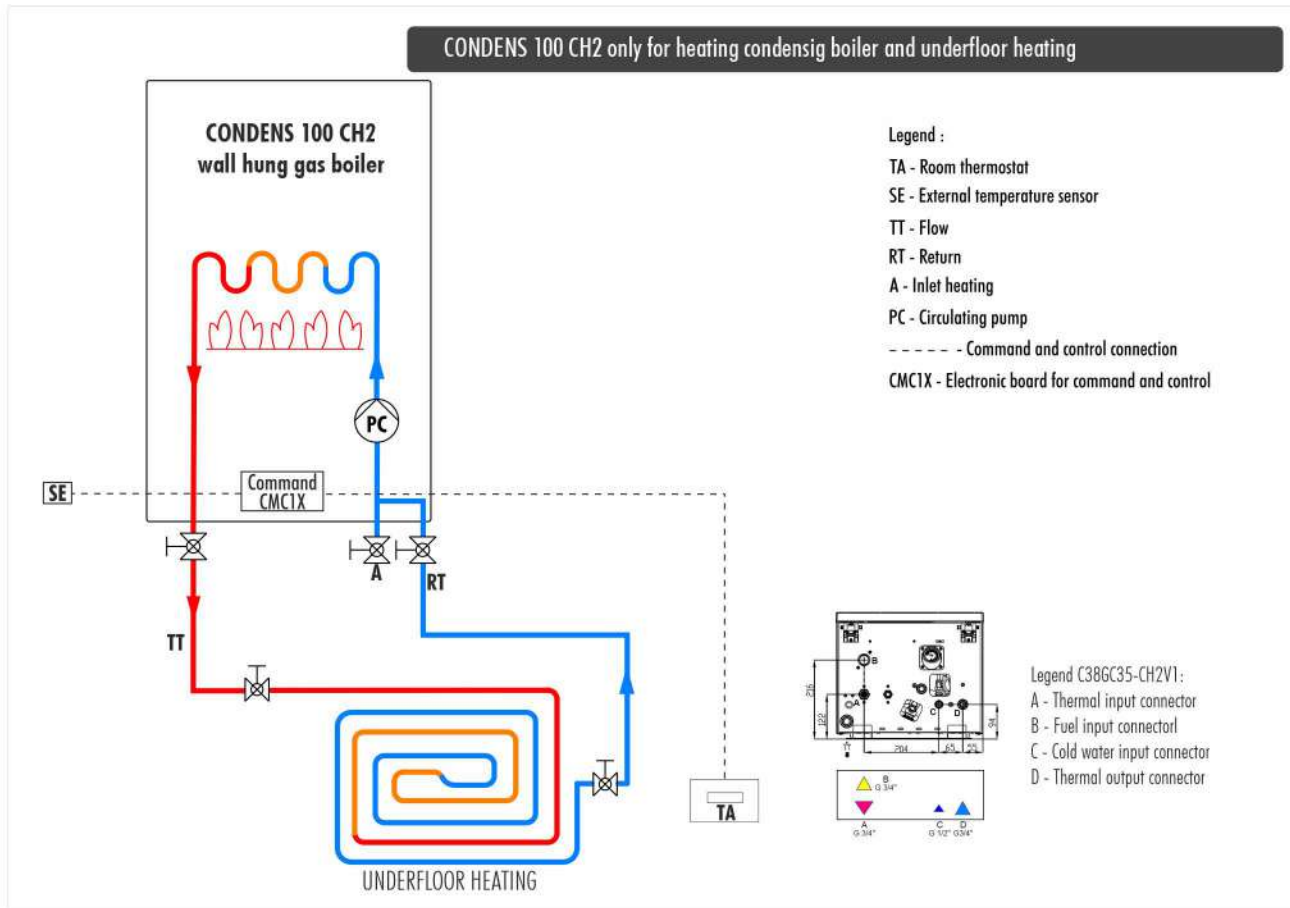


MOUNTING AND INSTALLATION OPTIONS

Operation diagrams and installation option, using CONDENS 100 CH - only for heating boilers:

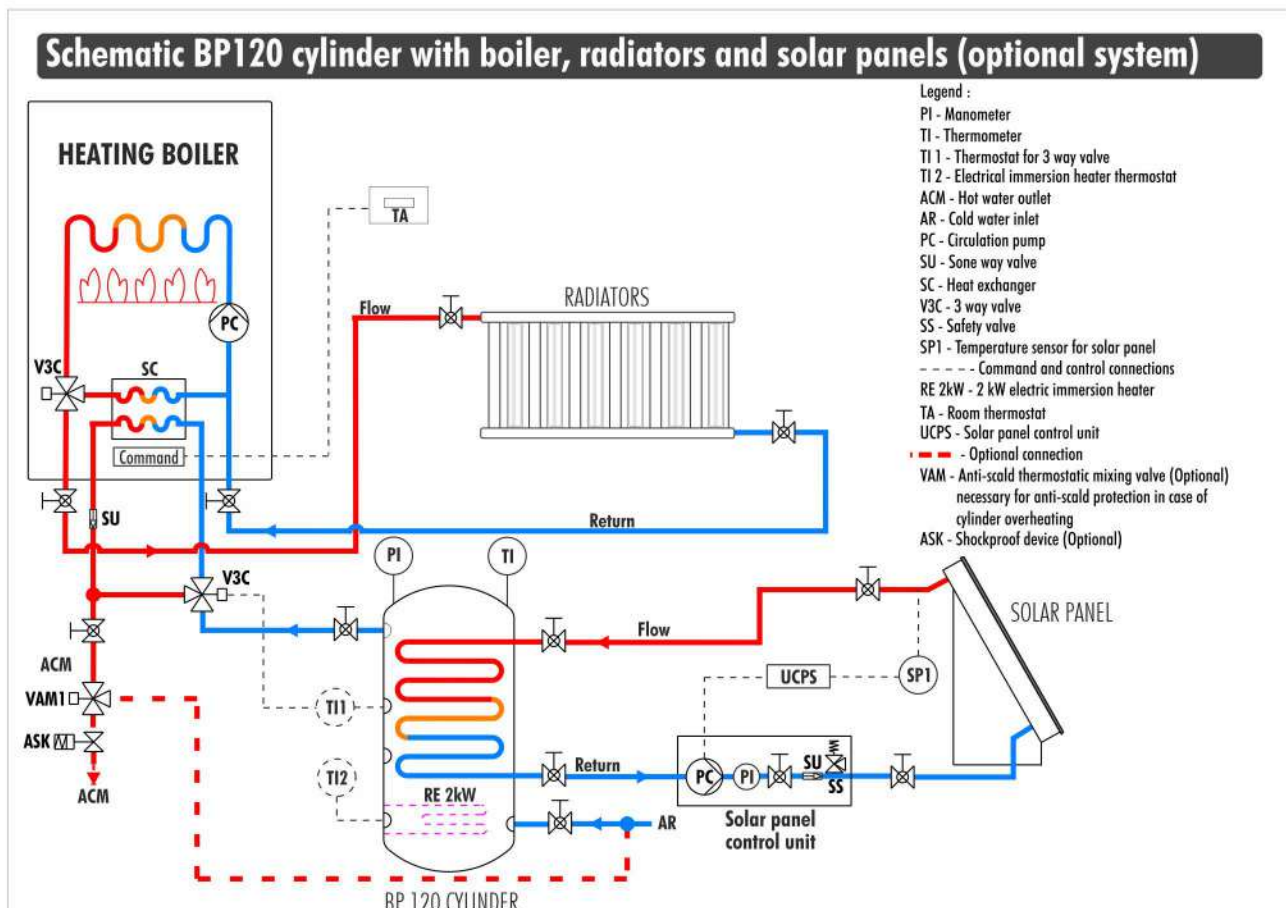
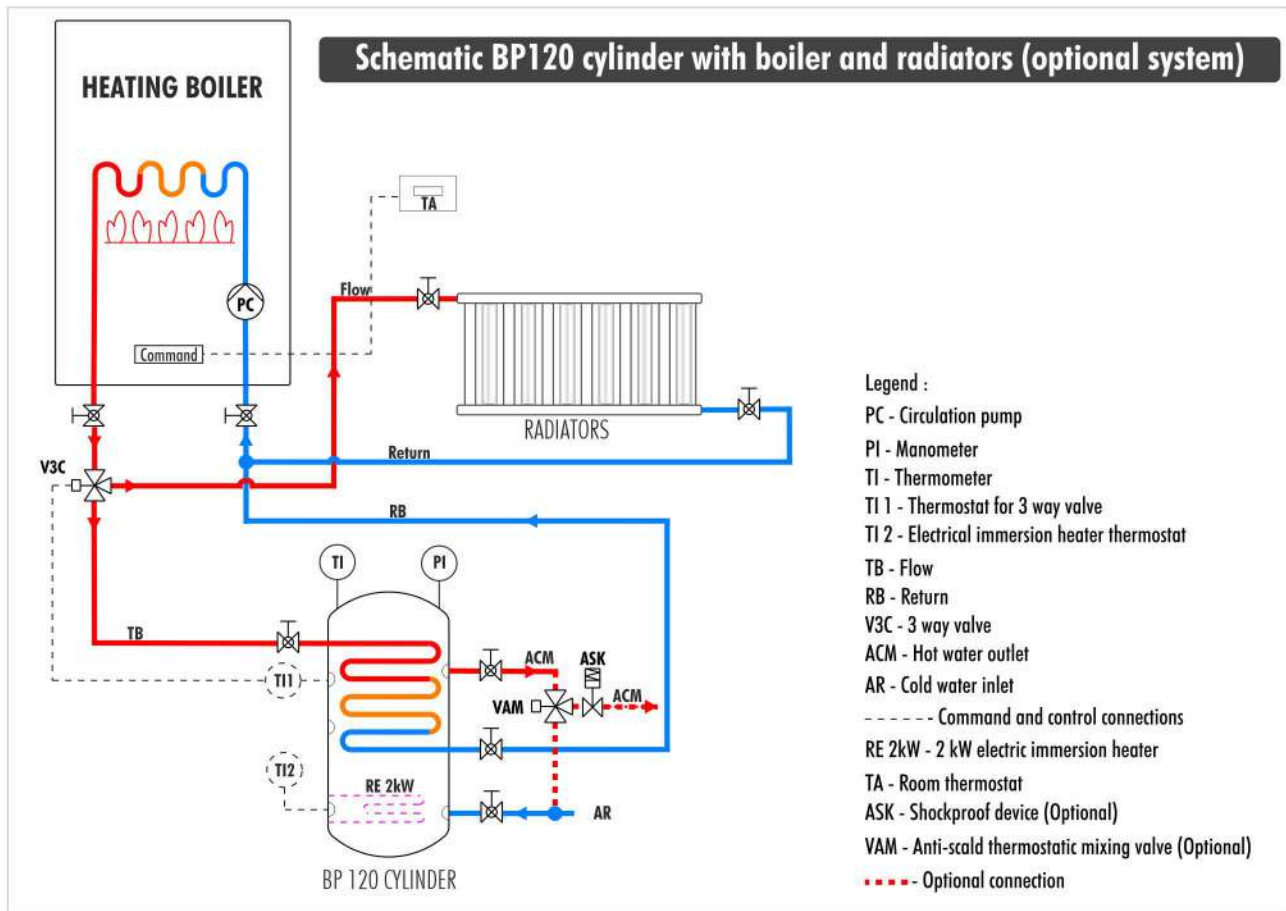
CONDENS 100 CH2

Condensing wall hung gas boiler, 35kW, only for heating, without 3-way valve



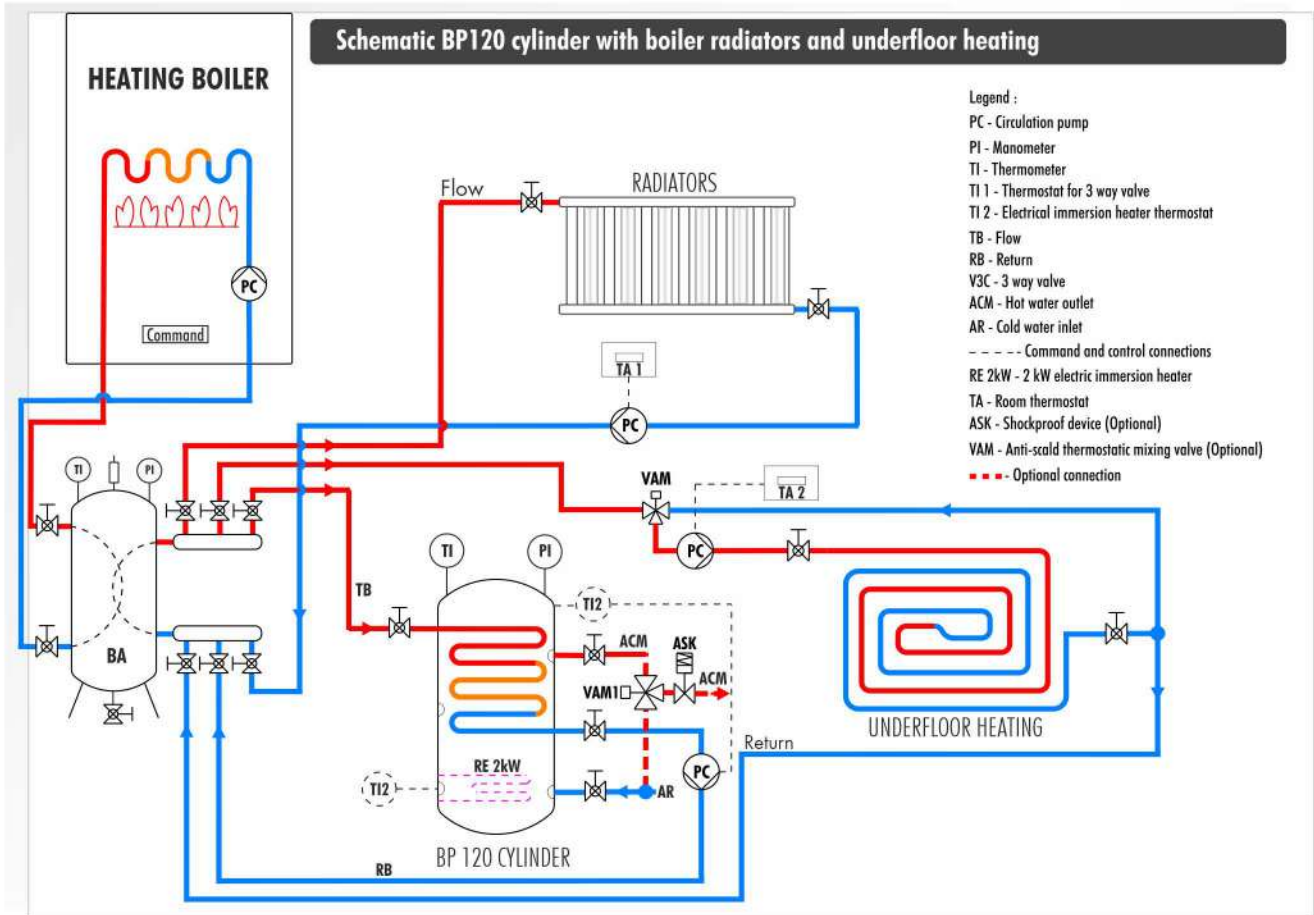
Installation option, using Bp120 DHW storage cylinder with single coil:

DHW CYLINDER BP120L-V1



Installation option, using BP120 DHW storage cylinder with single coil:

DHW CYLINDER BP120L-V1

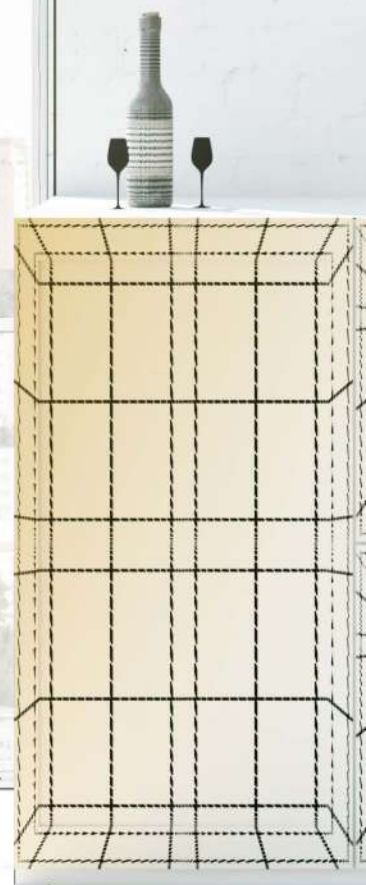


made by
KÖBER

discover the NEW

CONDENS

series
condensing wall hung gas boilers



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CENTRALE TERMICE