

MOTAN

OPTIMUS MT

Optimized gas consumption wall hung gas boiler



made by
KÖBER



MOTAN
WALL HUNG GAS BOILERS

www.motan.ro

OPTIMUS MT

Wall hung gas boiler with optimized gas consumption

Characteristics:

- Raised constant efficiency
- Reduced expenditure of energy
- "Optimus system" permits, through a rigorous combustion control, an annual money saving of 5% in comparison with the traditional boilers.
- Wall hung gas boiler easy to install due to its reduced size
- Flame electronic ignition and modulation
- Primary heat exchanger and secondary heat exchanger with 20 plates
- Continuous modulation gas valve
- Flowmeter to detect the domestic hot water debit
- NTC temperature sensors with ultra-fast respond on the heating and domestic hot water circuits
- 3-way gas valve
- LCD display control panel assures a highly efficient graphic interface and switch pads.
- Different work modalities for customers and plumbers as well
- Crono-thermostat and temperature external device connection option
- Gas boiler discharge valve
- « Comfort function » permits the customer not to mix hot water with cold water, and only to open the hot water tap
- Low noxes emissions - 3-th class Nox on natiral gas and 2 on LPG, category II2H3B/P

Type

	C15SPV 24 MEFM
Draft	Forced
Burning chamber	Sealed
Yield at maximum load	92.7%
Yield at minimum load	93.7%
Useful power (min/max)	10 - 23.7 kW
Nominal load of the burner	10.9 - 25.49 kW
Perssure of the gas	
Natural gas at the connection (after the reducing device)	20 mBar
Natural gas at the maximum allowable inlet	35 mBar
LPG	30-37 mBar
Supply voltage	230 Va.c./50 Hz
Absorbed electrical power	160 W
Weight	40 kg
Capacity of the heat exchanger	1 L
Fuel consumption natural gas (8500Kcal/Nm3) at useful power (max/min)	2.6- 1.1 Nm3/h
Fuel consumption LPG (20425Kcal/Kg) at maximuml power	1.07 - 0.4 kg/h
Thermal heating	
Allowed maximum and minimum pressure	0.5 and 3 Bar
Temperature on the heating circuit	40-80°C
Connections: inlet-outlet heating	3/4"
inlet-outlet hot domestic water	1/2"
gas feeding	3/4"
Dimensions: Depth (mm)	275
Width (mm)	415
Height (mm)	700
With the elbow installed (mm)	825
Expansion vessel with membrane	7 L
Domestic hot water preparing unit	
DHW range of temperature	30-60°C
Values of the flow rate t=250C	
T=350C	13,5 L/min
T=450C	9,7 L/min
T=450C	7,5 L/min
Pressure of the domestic cold water	0,2-8 Bar
Temperature of the combustion gases	Nominal 142.4°C
Combustion gases connection (intake-exhaustion)	100/60
Length of the combustion gases connection	Maximum 3 m
Informative values	
Maximum content of water in the unit	150 L
Maximum surface of the enclosure	200 m2



Power: 24kw

**Average lifetime:
10 years**

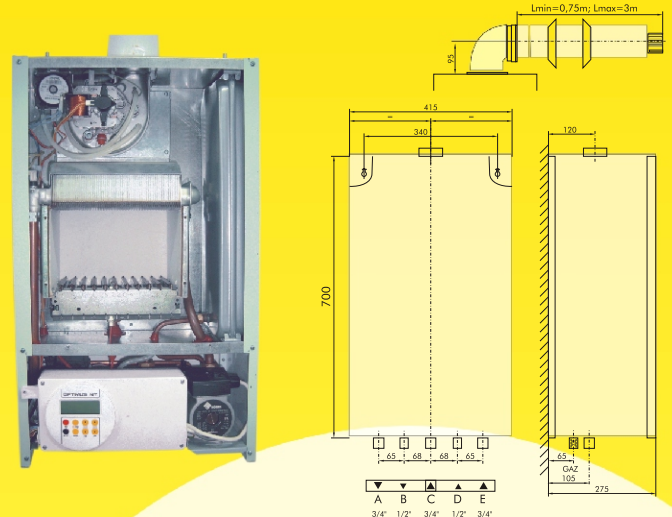
Monothermal

OPTIMUS System

"Comfort" Function

Safety systems:

- Overpressure safety valve protects the gas boiler at a pressure more than 3 bars
- Water temperature sensors on the heating and domestic hot water circuits
- Air pressure switch (forced draft version) which detects a possible scavenging deficiency and sends this information to the electronical board
- Safety thermostat for the heat exchanger
- Electronical board which receives information and controls the execution elements
- Self-diagnostic performant system
- Antifreeze protection function
- Chalk deposits prevention system
- Antiblocking pump system acting at every 24 hour



Wall hung gas boiler MOTAN integrate import components of the best quality:

- Grundfos circulation pump (Denmark)/ Wilo (France);
- Heat exchanger Fugas / Valmex (Italy);
- Gas valve Honeywell (Holland);
- Air pressostat Honeywell (Holland);
- Burner Worgas (Italy);
- Expansion vessel Zilmet (Italy);
- Electric fan Fime / EBMPAPST ;
- Safety valve Pintossi + C (Italy);
- Electronical board Brahma (Italy);

International certificate
for the Management of
Quality System

The Quality Management System implemented within our company assures and is certified according to the ISO 9001:2008 standard by the Certification German Organizations
GERMANISCHER LLOYD CERTIFICATION, TÜV SÜDDEUTSCHLAND



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