copa

wall hung gas boiler catalogue

Enjoy Efficient and Comfortable Warmth













Since its establishment, COPA; which has one of the largest production capacity of steel panel radiators, operating in HVAC industry, and is the leader in export for 20 years.

COPA is a 100% Turkish capital company with its modern production facilities located in Bursa, Turkey.

COPA, operates over 40 countries across 4 continents with its wall hung gas boilers, air-conditioners, hermetic water heaters, steel panel radiators, towel radiators, radiator valves and fixing equipments.





Enjoy Efficient and Comfortable Warmth











Premix Condensing Wall Hung Gas Boiler





High Performance Thanks to Specially Designed COPA Gas Control Group

Eomix Plus wall hung gas boilers have higher capacity and efficiency through out their service life thanks to the special COPA gas control group and highly efficient stainless steel main exchanger. In addition to the Ø10,5 coil diameter, which emphasizes the quality and design that takes into account the maximum performance, it is aimed to increase the strength and service life with the weldless monoblock structure. The exchanger is extremely resistant to hard condensation water in the flue gas and has a long life.



Efficient Combustion Thanks to the Premix Technology

In Eomix Plus wall hung gas boilers, the new technology uses an integrated air/gas mixer, a modulating fan and cylindrical stainless steel burner with a large combustion surface and micro-flame. In this way, high efficiency combustion is achieved by mixing in the air/gas mixer in the optimum way before the gas goes to the burner.



Silent Operation with Specialized Advanced Silencer

Eomix Plus wall hung gas boilers operate by minimizing the operating noises that may occur thanks to the specially designed silencer used at the entrance of the fresh air duct.



High Comfort in **Water Usage**

With higher heating capacity, plate heat exchanger and higher water flow rate, it can produce uninterrupted and very fast hot water and ensures maximum hot water comfort.





Wide Modulation Range

Thanks to the gas valve with a wide modulation range, the stop-start operation of the burner is prevented, the heating comfort is increased, the system losses are minimized and the emissions of harmful substances during ignition are reduced by adjusting its capacity according to the need.



Compact Size

It is olso easily mounted in narrow spaces with its compact size which is the same in all capacities.



Electricity Saving Thanks to Modulated Circulation Pump

With the modulating pump system that enables modification of cycle used in Eomix Plus wall hung gas boilers, the electrical consumption of the boiler is reduced. At the same time, the wall hung gas boilers operates in harmony with all small/large installations.



Ease of Installation and Maintenance

Eomix Plus wall hung gas boilers are designed to provide service-friendly solutions with its technological and component details, ease of installation and maintenance.





Aesthetic Design with Digital and Touch Panel

The control panel of the Eomix Plus wall hung gas boilers has an improved digital display and software. It is both aesthetic and ergonomic thanks to its digital LCD led screen and touch panel which provides ease of use.

Temperature settings and service parameters are easily set with the specially designed touch panel. Optionally, the control panel can also be used as an eco-panel by installing an outdoor sensor.

Intelligent Adaptation System



The Eomix Plus wall hung gas boilers recognizes the climate conditions of the region where it is installed and the house thanks to its intelligent adaptation system. Accordingly, it determines the optimum operating conditions and adapts itself to different environmental conditions despite all the factors affecting temperature variance. Thus, it works with less gas consumption and provides maximum performance and maximum efficiency.

TECHNOLOGICAL ADVANTAGES



Touch Panel

Eomix Plus offers stylish and ergonomic design thanks to its LCD display and touch buttons.



kW

LCD Display

Capacity Options

24 kW, 35 kW, and 42kW

different capacity options up to

Many operations can be carried out at the same time from the large easy to use LCD screen with lighting and integrated with the ergonomically designed electronic card of Eomix Plus wall hung gas boilers.

Eomix Plus wall hung gas boilers have 3



Complete Isolation

Eomix Plus wall hung gas boilers operate extremely quiet and reduce heat loss from the body thanks to the interior which is coated with soft insulation material for heat and sound insulation.



Premix Technology

High efficiency combustion is achieved in the optimum way by mixing the gas and air before going to the burner that is required for combustion with the frequency controlled fan which achieves the ideal amount of air in each capacity.



Condensation Technology

The flue gas resulting from the combustion process transfers the heat energy inside it to the return water in the heating circuit. Efficiency is improved by maximizing fuel energy and the NOx and CO_2 ratios emitted to the environment are reduced.



Frost Protection Feature

Eomix Plus wall hung gas boilers prevents damage to the installation due to freezing and protect the boiler and the installation against any damage thanks to the protection feature that is automatically activated according to the values taken from the sensors in it.

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Digital Capacity Setting

Different capacity settings can be made according to the size of the house and heat loss. Eomix Plus wall hung gas boilers provide high efficiency by consuming power at the rate needed instead of excess thermal power by precisely and digitally setting the thermal power.

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Low Pressure Feature

Eomix Plus wall hung gas boilers also operate at high performance in case of low gas inlet pressure thanks to the gas control system.



Dual Manometer

Water pressure can easily be observed both digitally on the LCD display and with the manometer mechanically located on the product.



Environmentally Friendly

Eomix Plus wall hung gas boilers comply with ErP regulations and have low emission values and protect the environment thanks to its condensation technology.



Eco / Comfort Mode

Through the e/c touch screen on the control panel of the Eomix Plus wall hung gas boilers, more efficient heating is achieved with the Eco mode and also warming up is performed in a shorter time with the Comfort mode.



14 Different Safety Systems

Eomix Plus wall hung gas boilers have 14 different safety systems. In this way, it works safely with high performance and long service life.



Eco-Panel Feature with Outside Air Sensor Connection

With the software of Eomix Plus wall hung gas boilers, the outdoor sensor can be connected as an option. In this way, the radiator inlet water temperature is set depending on the outside air temperature in the boilers that turn into eco-panels. This system guarantees maximum comfort and also saves energy by preventing temperature fluctuations.

Class A High Efficiency

It has Class A high seasonal efficiency both in radiator heating and hot water production and complies with the ErP Regulation implemented by the European Union.





Specifications of Eomix Plus Wall Hung Gas Boiler

MODEL			Eomix Plus 24	Eomix Plus 35	Eomix Plus 42		
	Energy Efficiency Class		A	A	A		
Seasonal Space Heating	Energy Efficiency (ŋs)	%	92,2	93,1	93,2		
At Rated Heat Output and High-Temperature Regime ² (η4)		%	88,1	88,4	88,7		
At 30% of Rated Heat Output and Low-Temperature I	Regime¹ (η1)	%	98	98,2	98,3		
At Rated Heat Output and High-Temperature Regime	² (P4)	kW	24,2	33	36,2		
At 30% of Rated Heat Output and Low-Temperature Regime ¹ (P1)		kW	8,2	9	9,5		
ated Heat Output (Prated) (80-60°C)		kW	23,9	32,1	39		
leat Output (Pn) (50/30 °C)	Min/Max	kW	25,7/4,4	33,8/5,1	39/5,7		
Daily Electricity Consumption	Qelec	kWh	0,133	0,132	0,15		
aily Fuel Consumption	Q fuel	kWh	21,856	22,195	23,27		
Space Heating: Annual Energy Consumption		GJ	50	56	58		
entral Heating Pressure	Min/Max	bar	0,4/3	0,2/3	0,2/3		
Central Heating Temperature Setting Range	Min/Max	°C		30 / 85			
Built-in Expansion Vessel Capacity		L	8				
	Energy Efficiency Class			A			
	Declared Load Profile			XL			
Water Heating	Energy Efficiency Rate (ŋwh)	%		85			
	Annual Electricity Consumption	kWh		30			
	Annual Fuel Consumption	GJ		19			
DHW Heat Output	Min/Max	kW	27,7/4,3	34,6/4,8	39/5,7		
OHW Flow Rate (ΔT:30 °C)	Min/Max	L/min	2/13,5	2/16,1	2/17,2		
OHW Pressure	Min/Max	bar	0,4/10	0,4/14	0,4/14		
OHW Temperature Setting Range	Min/Max	°C	30 / 65				
Auxiliary Electricity Consumption (at full load)	el _{max}	kW	0,029	0,033	0,05		
uxiliary Electricity Consumption (at part load)	el _{mix}	kW	0,016	0,013	0,013		
uxiliary Electricity Consumption (in standby mode)	P _{SB}	kW	0,002	0,002	0,07		
tandby Heat Loss	P _{stby}	kW	0,060	0,056	0,070		
lectrical Supply		V / Hz	220-240 / 50				
Protection Grade of Electrical System			IPX4D				
missions of Nitrogen Oxides		mg/kWh	39	42	42		
N0x Class		-	6				
Category				II2H3+			
as Inlet Pressure	G20 / G25	mbar	20 / 28	20 / 28	20 / 28		
IG Consumption	Min/Max	m³/h	0,65/2,65	0,7/3,03	0,7/3,03		
lue Types			C13 - C23 - C33 - C43 - C53 - B3				
tandart Flue Kit	Horizontal	mm	60 / 100				
tandart Flue Extention		mm	800				
laximum Flue Length: Horizontal	60 / 100	m	6				
faximum Flue Length: Vertical	80 / 125	m	20				
ound Power Level	Indoor	dB (A)	42	45	45		
Veight	Net	kg	30,6	32	34		
-	Width	mm		400			
Dimensions (Net)	Height	mm		600			
• •	Depth	mm		320			

1) Low temperature means for condensing boilers 30°C, for low-temperature boilers 37°C and for other heaters 50°C return temperature (at heater inlet).

2) High-temperature regime means 60°C return temperature at heater inlet and 80°C feed temperature at heater outlet.





Efficient Burning with New Premix Technology

New technology integrated air/gas mixers, modulated fan and cylindrical stainless steel burner with wide burning surface and micro flame is used in Eomix Wall Hung Gas Boilers. Thanks to this technology high efficient burning is provided by ideally mixed gas in air/gas mixer before burner.

High Efficiency with Special Design COPA Heat Exchanger

Eomix Wall Hung Gas Boilers provide higher capacity and efficiency during life cycle thanks to special COPA design, high efficient stainless steel heat exchanger. Heat exchanger has 10% more heating surface area thanks to 11.5 coil without any welded sections. Heat exchanger is extremely durable and long-lasting against hard condensing water in flue gas.



Lower Noise with Special Design Silencer

Eomix Wall Hung Gas Boilers run by minimizing working noise thanks to special designed silencer which is used at the entrance of fresh air duct.



Feel **Comfort** in Domestic Hot Water

Eomix Wall Hung Gas Boilers provide maximum hot water comfort at home with uninterrupted and very fast hot water flow thanks to higher heating capacity, plate heat exchanger and high water flow.



Wide Modulation Range

Thanks to the gas valve with a wide modulation range, by adjusting its capacity according to the need, the stop-start operation of the burner is prevented, heating comfort is increased, system losses are minimized and harmful substance emissions during ignition are reduced.



Compact Size

It is olso easily mounted in narrow spaces with its compact size which is the same in all capacities.



Electricity Saving Thanks to the Modulation Circulation Pump

With the modulating pump system that can change the speed used in Eomix wall hung gas boilers, the electricity consumption of the wall hung gas boilers is reduced. At the same time, the wall hung gas boilers works in harmony with all small/large installations.



Ease of Installation and Maintenance

Eomix wall hung gas boilers boilers are designed to offer easy assembly, maintenance and service -friendly solutions with their technological and component details.





Ergonomic, Aesthetic and User Friendly Control Panel

Control panel of Eomix wall hung gas boilers has an improved digital display and software. User friendly digital LCD LED display, soft touch buttons and soft touch knobs provide both aesthetic as well as ergonomy. Temperature and service parameters are easily adjusted thanks to multi-functional soft touch knobs. Eco mode (efficient mode) and Comfort mode (fast heating mode) can be adjusted from control panel with e/c button. Control panel can be used as eco-panel by optionally installed outdoor sensor.

Intelligent Adaptation System



Thanks to its smart adaptation system, Eomix wall hung gas boilers recognize the climatic conditions of the region and the house. Accordingly, it determines the optimum working conditions and adapts itself to different environmental conditions, despite all the factors affecting the temperature variability. Thus, it provides maximum performance and maximum efficiency by working with less gas consumption.

TECHNOLOGICAL ADVANTAGES



Full Thermo Acoustic Isolation

Eomix wall hung gas boilers work extremely silently and also prevent heat loss thanks completely covered interior body with soft insulating material for niose and heat insulation.



Premix Technology

High efficiency combustion is achieved in the optimum way by mixing the gas and air before going to the burner that is required for combustion with the frequency controlled fan which achieves the ideal amount of air in each capacity.



Condensation Technology

The flue gas resulting from the combustion process transfers the heat energy inside it to the return water in the heating circuit. Efficiency is improved by maximizing fuel energy and the NOx and CO_2 ratios emitted to the environment are reduced.



Low Pressure Feature

Eomix wall hung gas boilers also operate at high performance in case of low gas inlet pressure thanks to the gas control system.



LCD Display

Many operations can be carried out at the same time from the large easy to use LCD screen with lighting and integrated with the ergonomically designed electronic card of Eomix wall hung gas boilers.



Capacity Options

Eomix wall hung gas boilers have 3 different capacity options up to 20 kW, 24 kW, and 35kW



Frost Protection Feature

Eomix wall hung gas boilers prevents damage to the installation due to freezing and protect the boiler and the installation against any damage thanks to the protection feature that is automatically activated according to the values taken from the sensors in it.



Digital Capacity Setting

Different capacity settings can be made according to the size of the house and heat loss. Eomix wall hung gas boilers provide high efficiency by consuming power at the rate needed instead of excess thermal power by precisely and digitally setting the thermal power.



Environmentally Friendly

Eomix wall hung gas boilers comply with ErP regulations and have low emission values and protect the environment thanks to its condensation technology.



Dual Manometer

Water pressure can easily be observed both digitally on the LCD display and with the manometer mechanically located on the product.



14 Different Safety Systems

Eomix wall hung gas boilers have 14 different safety systems. In this way, it works safely with high performance and long service life.



Eco / Comfort Mode

Through the e/c touch screen on the control panel of the Eomix wall hung gas boilers, more efficient heating is achieved with the Eco mode and also warming up is performed in a shorter time with the Comfort mode.



Eco-Panel Feature with Outside Air Sensor Connection

With the software of Eomix wall hung gas boilers, the outdoor sensor can be connected as an option. In this way, the radiator inlet water temperature is set depending on the outside air temperature in the boilers that turn into eco-panels. This system guarantees maximum comfort and also saves energy by preventing temperature fluctuations.



Eomix Wall Hung Gas Boilers Technical Specifications

MODEL			COPA Eomix 20	COPA Eomix 24	COPA Eomix 35		
	Energy Efficiency Class		A	A	A		
Seasonal Space Heating	Energy Efficiency (ηs)	%	92	92	93		
At Rated Heat Output and High-Temperature Regime ² (η4)		%	87,4	87,8	88,3		
At 30% of Rated Heat Output and Low-Temperature Regime ¹ (n1)		%	97,3	97,5	97,8		
At Rated Heat Output and High-Temperature Regime ² (P4)		kW	20,1	24,1	32,1		
At 30% of Rated Heat Output and Low-Temperature Regime ¹ (P1)		kW	8,1	8,1	4,1		
Rated Heat Output (Prated) (80-60°C)		kW	20	23,6	31,33		
leat Output (Pn) (50/30 °C)	Min/Max	kW	21,9/4,1	25,5/4,5	33,5/5,2		
Daily Electricity Consumption	Q elec	kWh	0,135	0,133	0,132		
Daily Fuel Consumption	Q fuel	kWh	23,9	21,856	22,195		
pace Heating: Annual Energy Consumption		GJ	42	51	58		
Central Heating Pressure	Min/Max	bar	0,4 / 3	0,4 / 3	0,4/3		
Central Heating Temperature Setting Range	Min/Max	°C		30 / 85			
Built-in Expansion Vessel Capacity		L		8			
	Energy Efficiency Class			А			
	Declared Load Profile			XL			
Water Heating	Energy Efficiency Rate (ŋwh)	%	85				
	Annual Electricity Consumption	kWh	30				
	Annual Fuel Consumption	GJ		19			
DHW Heat Output	Min/Max	kW	23,7/4,1	27,5/4,2	34,44/4,8		
DHW Flow Rate (ΔT:30 °C)	Min/Max	L/min	2/11,4	2/13,5	2/16,1		
OHW Pressure	Min/Max	bar	0,4/10	0,4/10	0,4/14		
OHW Temperature Setting Range	Min/Max	°C	30 / 65				
Auxiliary Electricity Consumption (at full load)	el _{max}	kW	0,029	0,029	0,033		
Auxiliary Electricity Consumption (at part load)	el _{mix}	kW	0,014	0,016	0,013		
Auxiliary Electricity Consumption (in standby mode)	P _{SB}	kW	0,002	0,002	0,002		
itandby Heat Loss	Pstby	kW	0,057	0,060	0,056		
Electrical Supply		V / Hz	220-240 / 50				
Protection Grade of Electrical System			IPX4D				
Emissions of Nitrogen Oxides		mg/kWh	36	39	42		
N0x Class			6				
Category			II2H3+				
Gas Inlet Pressure	G20 / G25	mbar	20 / 28	20 / 28	20 / 28		
IG Consumption	Min/Max	m³/h	0,60/2,5	0,65/2,65	0,7/3,03		
lue Types			C13 - C23 - C33 - C43 - C53 - B3				
itandart Flue Kit	Horizontal	mm	60 / 100				
itandart Flue Extention		mm	800				
Aaximum Flue Length: Horizontal	60 / 100	m	6				
Maximum Flue Length: Vertical	80 / 125	m	20				
Sound Power Level	Indoor	dB (A)	49				
Neight	Net	kg	28,5	29	31,5		
	Width	mm		400			
Dimensions (Net)	Height	mm		600			
	Depth	mm		320			

1) Low temperature means for condensing boilers 30°C, for low-temperature boilers 37°C and for other heaters 50°C return temperature (at heater inlet).

2) High-temperature regime means 60°C return temperature at heater inlet and 80°C feed temperature at heater outlet.







Monothermic Heat Exchanger

Eon wall hung gas boilers have monothermic (double) heat exchanger structure that provides central heating and domestic hot water. Eon wall hung gas boilers are environmentally friendly thanks to stainless steel burner provides high efficient burning and low gas emission.



Eon wall hung gas boilers have 13 different safety systems which help to run safe with high performance and long-lasting. Safety systems in Eon Wall Hung Gas Boilers are as follows:

- 1 3 Bar Safety Valve
- 2 Automatic Air Vent Valve
- 3 8 10 liter Expansion
- 4 Defrost Protection
- 5 Pump Antiblockage Function
- 6 3 Way Valve Antiblockage Function
- 7 Firing Electrode automatic air vent

- 8 Low Water Pressure Switch
- **9** Filling Cock
- (10) Central Heating and Domestic Hot Water Safety System
- 1) Domestic Water Temperature Sensor
 - 12 Domestic Hot Water Flow Switch
 - **13** Flue Gas Overtemperature Thermostat



Special Design, Ergonomic Digital Display and User Friendly Control Panel

Eon wall hung gas boilers have a specially designed new ergonomic digital display and digital software. It provides ease of use due to large LCD screen. All operations can take actions with soft touch single knob on the control panel. Eco mode (efficient mode) and Comfort mode (fast heating mode) can be adjusted from control panel with e/c button. Control panel can be used as eco-panel by optionally installed outdoor sensor.



2 Different Capacities and Compact Sizes

Eon wall hung gas boilers have 24 kW and 28 kW capacities. It can be easily assembled in narrow spaces with the same sizes all capacities.

TECHNOLOGICAL ADVANTAGES



Natural Gas and LPG Usage

Eon wall hung gas boilers provide both natural gas and LPG usage up to needs.



Capacity Options

Eon wall hung gas boilers have two different capacities up to 24kW & 28 kW



Frost Protection

Sensors installed on the boiler provide frost protection. During antifreeze function, display shows "Fr" indication and gas valve is driven with minimum current.



Digital Capacity Setting

Different capacity settings can be made according to the size of the house and heat loss. Eon wall hung gas boilers provide high efficiency by consuming power at the rate needed instead of excess thermal power by precisely and digitally setting the thermal power.



Low Pressure Feature

Eon wall hung gas boilers also operate at high performance in case of low gas inlet pressure thanks to the gas control system.



Monothermic Heat Exchanger

Water pressure can easily be observed both digitally on the LCD display and with the manometer mechanically located on the product.



Environmentally Friendly

Eon wall hung gas boilers comply with ErP regulations and have low emission values and protect the environment thanks to its condensation technology.



Eco / Comfort Mode

Through the e/c touch screen on the control panel of the Eon wall hung gas boilers, more efficient heating is achieved with the Eco mode and also warming up is performed in a shorter time with the Comfort mode.



13 Different Safety Systems

Eon wall hung gas boilers have 13 different safety systems. In this way, it works safely with high performance and long service life.



Eco-Panel Feature with Outside Air Sensor Connection

With the software of Eon wall hung gas boilers, the outdoor sensor can be connected as an option. In this way, the radiator inlet water temperature is set depending on the outside air temperature in the boilers that turn into eco-panels. This system guarantees maximum comfort and also saves energy by preventing temperature fluctuations.



LCD Display

Many operations can be carried out at the same time from the large easy to use LCD screen with lighting and integrated with the ergonomically designed electronic card of Eon wall hung gas boilers.

Energy Efficiency Class

According to 92/42 EEC energy directive and 2009/142 EEC gas appliances directive, Eon Wall Hung Gas Boilers have 3 stars energy efficiency class for both central heating and domestic hot water.



Eon Wall Hung Gas Boilers Technical Specifications

Technical Features	Unit	COPA Eon 24	COPA Eon 28				
Installation System							
Maximum Heat Load	kW	24	28				
Minimum Heat Load	kW	8,5	9,9				
Maximum Heating Power (80/60)	kW	23,7	27,1				
Minimum Heating Power (80/60)	kW	8,3	8,7				
Efficiency Class (ErP Lot1, EN 15502)		С	С				
Temperature Adjustment	°C	30-85	30-85				
Maximum System Pressure	bar	3	3				
Gas Inlet Pressure (H and P)	mbar	20-37	20-37				
Expansion Tank Capacity	Lt.	8	8				
NOX Class (EN 15502)		3	3				
Pump Type		15/50	15/50				
Gas Category		II2H3+	II2H3+				
Domestic Water System							
Maximum Heating Power	kW	24	29,5				
Specific Water Flow Rate (dT=30° C)	L/m	8,5	9,5				
Minimum Water Flow Rate	Lt	2	2				
Operating Temperature Range	°C	30-65	30-65				
Minimum Water Pressure	bar	0,5	0,5				
Maximum Water Pressure	bar	8	8				
Electrical Features							
Power Voltage	V	230 V 50Hz	230 V 50Hzv				
Electrical Protection (IP)		X4D					
Electrical Power	W	110					
Flue Applications							
Average Flue Temperature (30/50)	°C	110	110				
Maximum Vertical Flue Length	m	20	20				
Maximum Horizontal Flue Length	m	4	4				
Flue Outlet (exhaust - fresh air)	mm	60/100	60/100				
Standard Pipe Length	m	0,8	0,8				
Dimensions							
Dimensions (Height x Width x Depth)	mm	700 x 400 x 330	700 x 400 x 330				
Net Weight	kg	34	35				





Temperature of Your Home is Under Your Control

Smart Room Thermostat

The Eomix Plus wall hung gas boilers can optionally be connected to the smart room thermostat which controls the living spaces. The COPA Smart Room Thermostat enables the Eomix Plus wall hung gas boilers to be used economically with different mode options via the phone app.



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