



**COMEX
GROUP**

TUTTO UN ALTRO CLIMA



CLIMAIR COND



WALL-HUNG OUTDOOR CONDENSING BOILERS

ABOUT US ...technological innovation since 1986



OUR MISSION

Founded in 1986 as a manufacturer of industrial furnaces, **Comex Group** has built its history on a fundamental value: technological innovation.

Many years of experience in the heating and air-conditioning sectors, combined with the continuous acquisition of know-how on new technologies and applications, have enabled the company to apply solutions that are always up-to-date using heat pump systems, solar cooling, heat recovery, thermal power stations and, most recently, air sanitation.

Research and innovation have distinguished the company in the heating and air conditioning sector with important advantages for **Comex Group** customers in the areas of energy saving, safety and environmental protection.

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CLIMAIR COND

The wall-mounted condensing boiler

CLIMAIR COND is a wall-mounted condensing boiler, equipped with a pre-mixed low NOx burner in class 5 and 6. The electronic control unit manages automatic modulation of the thermal load.

CLIMAIR COND is available with the following heat outputs: 32 kW, 47 kW, 65 kW, 94 kW and 107 kW **with efficiencies up to 107%**.

It has an IPX5D degree of protection and a supporting structure with a painted steel casing suitable for outdoor installation, guaranteeing robustness and solidity.



Climair Cond 35

Rated heating capacity (HI)
32 kW



Climair Cond 45

Rated heating capacity (HI)
47 kW



Climair Cond 70

Rated heating capacity (HI)
65 kW



Climair Cond 100

Rated heating capacity (HI)
94 kW



Climair Cond 115

Rated heating capacity (HI)
107 kW

Why is CLIMAIR COND an ideal solution?

1 BECAUSE IT ALLOWS WELL-BEING AND ENERGY SAVINGS

2 BECAUSE IT HAS ACCESS TO THE THERMAL ACCOUNT AND TAX DEDUCTION *

3 BECAUSE IT RESPECTS THE ENVIRONMENT AND REDUCES CO₂ EMISSIONS



* Tax deductions are applicable depending on the local legislation and regulations of the country where the product is installed. The actions eligible for incentives are specified according to the type, efficiency and combination of appliances and installations used.

CLIMAIR 35-45 COND - Main characteristics



CLIMAIR 35 COND

- Outdoor/indoor wall-mounted condensing boiler
- Outdoor INOX steel casing
- High efficiency ★★★★★
- Seasonal efficiency class A
- Class 6 NOx
- Reduced dimensions and compact structure
- Control panel with backlit display
- Primary heat exchanger in stainless steel and aluminium
- Total premix burner
- High modulation (1:10)
- NTC temperature probes on heating
- PWM modulating HE circulator with built-in deaerator
- 9 litres expansion tank
- Integrated temperature control system via external probe (optional)
- IPX5D degree of protection

CLIMAIR 45 COND

- Outdoor/indoor wall-mounted condensing boiler
- Outdoor painted steel casing
- High efficiency ★★★★★
- Class 5 NOx
- High residual head
- Electronic burner flame modulation
- Electronic ignition with flame detection
- Electronic board with self-diagnosis
- Climatic control unit for sliding temperature operation through application of external probe
- Possibility of managing the boiler via remote control
- Digital alphanumeric display
- 8-litres expansion tank
- Equipped with safety devices
- IPX5D degree of protection

* In combination with a temperature control device in class V or higher.

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For further information on use, plant design, etc., please contact the Comex Group technical department.

CLIMAIR 35-45 COND - Technical Data

CLIMAIR COND MODEL			35	45
APPLIANCE CATEGORY			II _{2H3P}	I _{2H}
APPLIANCE TYPE			C13, C43, C53, C63	C13, C43, C53, C63, C83
EFFICIENCY CLASS			★★★★	★★★★
SEASONAL ENERGY EFFICIENCY HEATING	%		92,0	92,2
ENERGY EFFICIENCY CLASS			A	A
NO _x CLASS			6	5
BOILER EFFICIENCY				
RATED HEAT CAPACITY [Hi]	max	kW	32,0	47,0
	min	kW	3,4	8,5
USEFUL HEAT OUTPUT [H _s] (50/30°C)	max	kW	33,5	49,9
	min	kW	3,5	9,1
USEFUL HEAT OUTPUT [Hi] (80/60°C)	max	kW	30,8	45,4
	min	kW	3,3	8,2
NOMINAL HEAT EFFICIENCY OUTPUT (50/30°C)	max	%	104,5	106,1
	min	%	103,5	107,0
NOMINAL HEAT EFFICIENCY OUTPUT (80/60°C)	max	%	96,6	96,6
	min	%	96,0	96,0
PERFORMANCE AT PARTIAL LOAD (τ _r = 30°C)		%	107,1	107,7
MAXIMUM OPERATING TEMPERATURE		°C	85	80
HYDRAULIC CONNECTIONS				
MAXIMUM OPERATING PRESSURE		bar	3	3
TOTAL WATER CONTENT		L	4	4,4
HYDRAULIC CONNECTIONS	Gas	"M	¾	¾
	In/Out	"M	¾	¾
EXPANSION TANK CAPACITY		l	9	8
FUME DISCHARGE	Coax.	Ømm	60/100	60/100
ELECTRICAL CHARACTERISTICS - OVERALL DIMENSIONS				
SUPPLY VOLTAGE		V/Hz	230/50	230/50
ELECTRICAL POWER CONSUMPTION	max	W	102	220
	Outdoor	IP	IPX5D	IPX5D
PROTECTION DEGREE	Indoor	IP	IPX4D	IPX4D
	H	mm	705	940
DIMENSIONS	L	mm	400	558
	P	mm	355	525
WEIGHT		kg	50	50

Some applications



CLIMAIR 70-100-115 COND - Main characteristics



CLIMAIR 70 COND

- Outdoor/indoor wall-mounted condensing boiler
- Outdoor painted steel casing
- High efficiency ★★★★★
- Class 6 NOx
- Water-cooled Low NOx model gas burner
- Stainless steel condensation exchanger
- High residual head
- Plant safety flow switch
- Climate control unit for sliding temperature operation by means of external probe application
- Possibility of managing the boiler via remote control
- Digital alphanumeric display
- Equipped with safety devices
- IPX5D degree of protection

CLIMAIR 100-115 COND

- Outdoor/indoor wall-mounted condensing boiler
- Outdoor stainless steel casing
- High efficiency ★★★★★
- Class 6 NOx
- Total premix burner with very low NOx and CO emissions
- 94 and 107 kW models
- Stainless steel heat exchanger
- User interface and backlit display
- High available head on water side
- High modulation range (1:8)
- Efficiency at 30% load exceeding 108%.
- Modulating input management 0 - 10 V (power or temperature)
- Equipped with safety devices
- IPX5D degree of protection

* In combination with a temperature control device in class V or higher.

Tax deductions are applicable depending on the local legislation and regulations of the country where the product is installed. The actions eligible for incentives are specified according to the type, efficiency and combination of appliances and installations used.

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CLIMAIR 70-100-115 COND - Technical Data

CLIMAIR COND MODEL			70	100	115	
APPLIANCE CATEGORY			I _{2H}	II _{2H3B/P}	II _{2H3B/P}	
APPLIANCE TYPE			B22P, B52P	B23, B23P	B23, B23P	
EFFICIENCY CLASS			★★★★	★★★★	★★★★	
SEASONAL ENERGY EFFICIENCY HEATING	%		90	93	93	
ENERGY EFFICIENCY CLASS			A	-	-	
NO _x CLASS			6	6	6	
BOILER EFFICIENCY						
RATED HEAT CAPACITY [Hi]	max	kW	65,0	94,0	107,0	
	min	kW	56,0	11,8	15,0	
USEFUL HEAT OUTPUT [H _s] (50/30°C)	max	kW	68,5	98,5	112,5	
	min	kW	59,0	12,6	16,1	
USEFUL HEAT OUTPUT [H _i] (80/60°C)	max	kW	62,4	91,2	104,0	
	min	kW	53,6	11,3	14,5	
NOMINAL HEAT EFFICIENCY OUTPUT (50/30°C)	max	%	105,4	104,8	105,1	
	min	%	105,3	106,8	107,0	
NOMINAL HEAT EFFICIENCY OUTPUT (80/60°C)	max	%	96,0	97,0	97,2	
	min	%	95,8	96,0	96,5	
PERFORMANCE AT PARTIAL LOAD (tr = 30°C)			%	105,2	108,0	108,3
MAXIMUM OPERATING TEMPERATURE			°C	90	90	
HYDRAULIC CONNECTIONS						
MAXIMUM OPERATING PRESSURE		bar	3	6	6	
TOTAL WATER CONTENT		L	15	8,0	8,7	
HYDRAULIC CONNECTIONS	Gas	"M	1	1¼	1¼	
	In/Out	"M	1	1¼	1¼	
EXPANSION TANK CAPACITY		l	7	5	5	
FUME DISCHARGE		Coax. Ømm	100	100	100	
ELECTRICAL CHARACTERISTICS - OVERALL DIMENSIONS						
SUPPLY VOLTAGE		V/Hz	230/50	230/50	230/50	
ELECTRICAL POWER CONSUMPTION		max W	185	335	680	
PROTECTION DEGREE	Outdoor	IP	IPX5D	IPX5D	IPX5D	
	Indoor	IP	-	IPX4D	IPX4D	
DIMENSIONS	H	mm	1.074	1.074	1.074	
	L	mm	800	800	800	
	P	mm	664	664	664	
WEIGHT		kg	150	100	110	

Some applications



HYBRID SYSTEMS



INDUSTRIAL OVENS



LITHIUM BROMIDE ABSORPTION CHILLER



ENERGY RECUPERATOR



SPLIT SYSTEMS



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