



CLIMAIR COND

WALL-MOUNTED CONDENSING BOILER UNIT

ABOUT US

...technological innovation since 1986



OUR MISSION

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Many years of experience in the heating and air-conditioning sectors, combined with the continuous acquisition of know-how on new technologies and applications, enables the company to bring solutions always up-to-date with heat pump systems, solar cooling, heat recovery, thermal power stations and lately 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 6. The electronic control unit manages automatic modulation of the thermal load.

CLIMAIR COND is available with the following heat outputs: 32 kW, 45 kW, 70 kW, 95 kW, 115 kW and 150 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-E

Rated heating capacity (HI) 45 kW

Climair Cond 70-E

Rated heating capacity (HI) 70 kW

Climair Cond 100

Rated heating capacity (HI) 95 kW

Climair Cond 115

Rated heating capacity (HI) 115 kW

Climair Cond 150

Rated heating capacity (HI) 150 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 COND - Main characteristics



CLIMAIR COND 35

- Wall-mounted condensing heating unit for outdoor/indoor use
- Stainless steel casing for outdoor use
- High performance ★★★★★
- Seasonal efficiency class A
- Class 6 NOx
- Small size and compact structure
- Control panel equipped with backlit display
- Primary exchanger in stainless steel and aluminum
- Total premix burner
- High modulation (1:10)
- NTC temperature probes on heating
- PWM modulating HE circulator with built-in deaerator
- 9-liter expansion vessel
- Integrated thermoregulation system via external probe (optional)
- IPX5D protection rating

* In abbinamento ad un dispositivo di termoregolazione in classe V o superiore.



CLIMAIR COND 45-E / 70-E / 100 / 115 / 150

- Wall-mounted condensing heating unit for outdoor/indoor use
- Stainless steel casing for outdoor use
- High performance ★★★★★
- Class 6 NOx
- Total premix burner with very low NOx and CO emissions
- Models from 45 to 150 kW
- Stainless steel exchanger
- User interface and backlit display
- High water side prevalence
- High modulation range (1:8)
- Efficiency at 30% load greater than 108%
- Management of 0 – 10 V modulating input (power or temperature)
- Equipped with safety devices
- IPX5D protection rating

For further information on usage, system design, etc., please contact the Comex Group technical department.

CLIMAIR 35 / 45-E / 70-E COND - Technical Data

CLIMAIR COND MODEL			35	45-E	70-E
APPLIANCE CATEGORY			II _{2H3P}	II _{2H3P}	I _{2H3P}
APPLIANCE TYPE			C13, C43, C53, C63	B23, B23P	B23, B23P
EFFICIENCY CLASS			★★★★	★★★★	★★★★
SEASONAL ENERGY EFFICIENCY HEATING	%		94,0	92,2	93
ENERGY EFFICIENCY CLASS			A	A	A
NOx CLASS			6	6	6
BOILER EFFICIENCY					
RATED HEAT CAPACITY [Hi]	max	kW	32	45	69,9
	min	kW	3,4	5	7,7
USEFUL HEAT OUTPUT [Hs] (50/30°C)	max	kW	35,1	46,4	74,5
	min	kW	3,5	5,3	8,1
USEFUL HEAT OUTPUT [Hi] (80/60°C)	max	kW	31,1	43,8	68
	min	kW	3,3	4,8	7,5
NOMINAL HEAT EFFICIENCY OUTPUT (50/30°C)	max	%	109,7	103,1	106,6
	min	%	103,5	106,7	105,8
NOMINAL HEAT EFFICIENCY OUTPUT (80/60°C)	max	%	97	97,3	97,3
	min	%	95,7	96,5	97,2
PERFORMANCE AT PARTIAL LOAD (tr = 30°C)		%	110,6	108,1	108,4
MAXIMUM OPERATING TEMPERATURE		°C	85	85	85
HYDRAULIC CONNECTIONS					
MAXIMUM OPERATING PRESSURE		bar	3	4,5	4,5
TOTAL WATER CONTENT		L	4	2,8	3,5
HYDRAULIC CONNECTIONS	Gas	"M	¾	1.14"	1.14"
	In/Out	"M	¾	1.14"	1.14"
EXPANSION TANK CAPACITY		l	9	7	7
FUME DISCHARGE	Coax.	Ømm	80	100	100
ELECTRICAL CHARACTERISTICS - OVERALL DIMENSIONS					
SUPPLY VOLTAGE		V/Hz	230/50	230/50	230/50
ELECTRICAL POWER CONSUMPTION	max	W	100	120	185
PROTECTION DEGREE	Outdoor	IP	IPX5D	IPX5D	IPX5D
	Indoor	IP	IPX4D	IPX4D	IPX4D
DIMENSIONS	H	mm	940	1.074	1.074
	W	mm	560	815	815
	D	mm	340	744	744
WEIGHT		kg	40	80	90

Some applications



CLIMAIR 100 / 115 / 150 COND - Technical Data

CLIMAIR COND MODEL			100	115	150
APPLIANCE CATEGORY			II _{2H3B/P}	II _{2H3P}	II _{2H3P}
APPLIANCE TYPE			B23, B23P	B23, B23P	B23, B23P
EFFICIENCY CLASS			★★★★	★★★★	★★★★
SEASONAL ENERGY EFFICIENCY HEATING	%		93	93	93
ENERGY EFFICIENCY CLASS			-	-	-
NO _x CLASS			6	6	6
BOILER EFFICIENCY					
RATED HEAT CAPACITY [Hi]	max	kW	95	115	150
	min	kW	10,5	20	20
USEFUL HEAT OUTPUT [Hs] (50/30°C)	max	kW	101,2	121	154,5
	min	kW	11,2	21	20,7
USEFUL HEAT OUTPUT [Hi] (80/60°C)	max	kW	92,9	112	146,1
	min	kW	10,2	19	19,2
NOMINAL HEAT EFFICIENCY OUTPUT (50/30°C)	max	%	106,5	105,2	103
	min	%	106,9	105,2	103,4
NOMINAL HEAT EFFICIENCY OUTPUT (80/60°C)	max	%	97,8	97,4	97,4
	min	%	97,1	95,1	96,2
PERFORMANCE AT PARTIAL LOAD (tr = 30°C)	%		108,7	108,2	108,3
MAXIMUM OPERATING TEMPERATURE	°C		85	85	85
HYDRAULIC CONNECTIONS					
MAXIMUM OPERATING PRESSURE	bar		6	6	6
TOTAL WATER CONTENT	L		6,8	10,1	10,1
HYDRAULIC CONNECTIONS	Gas	"M	1.14"	1.14"	1.14"
	In/Out	"M	1.14"	1.14"	1.14"
EXPANSION TANK CAPACITY	l		7	7	7
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	300	280	540
PROTECTION DEGREE	Outdoor	IP	IPX5D	IPX5D	IPX5D
	Indoor	IP	IPX4D	IPX4D	IPX4D
DIMENSIONS	H	mm	1.074	1.074	1.074
	W	mm	815	815	815
	D	mm	744	744	744
WEIGHT	kg		105	125	125

Some applications



NOTES

FRIO: DIRECT EXPANSION HEAT PUMP SPLIT SYSTEMS



AEROTERMO LT fan coil ultra-low temperature



GENIUS: LITHIUM BROMIDE ABSORBERS



IESI: HEAT RECOVERY



INDUSTRIAL OVENS Standard – Electric – Hybrid



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