

# DOUBLE DUCT



## Air conditioners without outdoor unit



ICOOOL



Metropolitan



INVISIBLE WZ-32



INVISIBLE water

## Why to use air conditioner without outdoor unit?

The range of air conditioners without outdoor unit has been created to meet the installation needs which are not possible with the traditional split systems.

The advanced design of these products allows to solve in an optimal way a whole range of installation difficulties ensuring easy installation, intuitive use with care at energy saving.

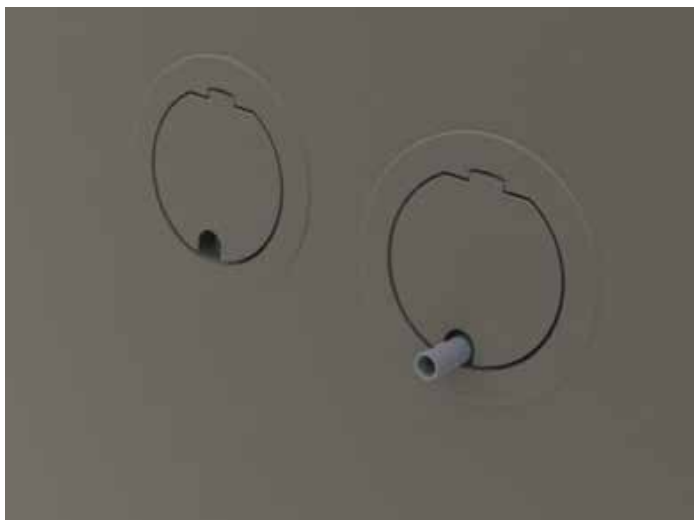


## Invisible installation complies with the law

The installation of outdoor units of split airconditioners is prohibited by the Civil Code for many kind of buildings.

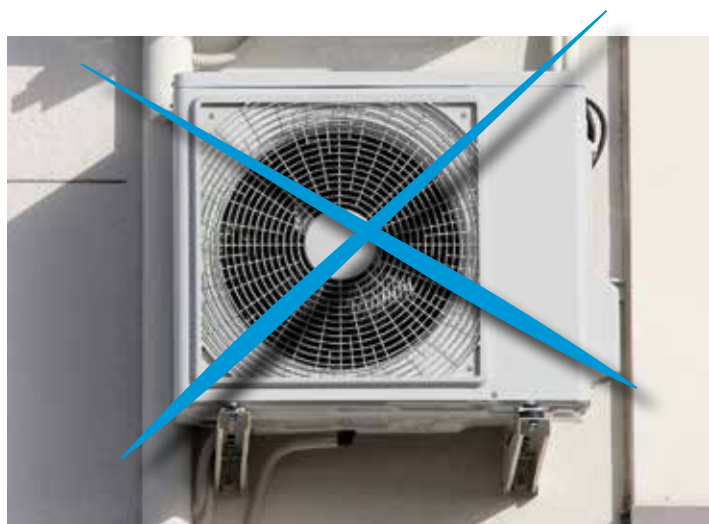
Thanks to the special imperceptible grids the installation of double duct airconditioners can be completely invisible, in accordance with the laws.

Those special grids go completely unnoticed because they can be painted with the colour of the wall, they are automatically closed at rest and open only with airflow.



## When the air conditioner without outdoor unit is better than split

The Air conditioners without outdoor unit unlike the split, can be installed without problems everywhere. It finds particular use in historical city, blocks of flats, in hotels, in prefabricated structures and structures subject to the constraint of Fine Arts.



## Typical installations for a DOUBLE DUCT air conditioner



### In Historic Places

The municipal regulations prohibit the installation of the outdoor units in the historical centers for the urban decorum, in this case the use of these machines allows to improve the aesthetic factor and decoration but also to enhance the property.



### In Condominiums

In many condominiums the installation of outdoor units is not allowed unless in a balcony where they can be hidden. In this case the installation of a double duct air conditioner of Aerfor complies with the condominiums rules and avoids legal disputes among the owners.



### Hotels

For hotel facilities, Aerfor offers a unique product, the INWISE Water. With this machine the goal achieved is the respect of the dignity and beauty of the building. Not last the reduction of the initial investment and a rapid payback in terms of energy savings all year round, thanks also to the exclusive function TRIAL POWER.



### Facilities subject to the constraint of Fine Arts

Like for hotels, in castles and antique buildings, subject to the constraint of urban regulations in terms of Fine Arts, the double duct air conditioners, without outdoor units, are the ideal solution to the problem of climate control. Peculiarly in the restorations, with the model INWISE Water.



### Modular building

For the prefabricated structures the Metropolitan range is an ideal solution for its low investment cost, the easy installation and maintenance. The various models allow the use of a Metropolitan double duct air conditioner/ heat pump from tropical climates to very cold conditions, down to -20 °C outdoor when boosted or assisted by the electric heater.

# ICOOL Invisible air conditioner A/A Class



## The most compact air conditioning monoblock, with a high class design.

ICOOL air conditioner is designed for high wall mounting as a usual split. It is characterized by reduced thickness and a unique design in the market.

ICOOL model is particularly suitable for bedroom with 20-25 square meter surface.

Thanks to the function of the heat pump it can be used to cool in summer and to heat in winter.

ICOOL is small and has a pleasant design that make it suggested for the rooms of reduced volumes, as bedrooms or other rooms where it does not impact with the furnishing.

The machine noise level in fan mode is only 27 dBA, measured at one meter distance from the source (Sound Pressure Level).

When the compressor is ON, in air conditioning or heat pump mode, the noise level rises up to 37-40-46dBA, which is still an appreciable good performance.

**ICOOL is the heat pump monoblock most compact in the world, with a fascinating design.**



Array of colours available.

TECHNICAL DATA	ICOOL
Cooling Power	2.36 Kw ( 8.047 BTU/h)
Heating Power	2.45 Kw ( 8.354 BTU/h )
Input Power (Heating - Cooling)	904 - 790 Watt
Energy Efficiency Ratio (EER)	A ( 2.61 W/W )
Coefficient Of Performance (COP)	A ( 3.10 W/W )
Holes diameter	20 cm
Noise SPL at 1 meter distance (compressor ON)	37 - 40 - 46 dB(A)
Ecological Gas	R410A
Machine dimensions	950 x 430 x 195 mm
Antibacterial filters	Yes
Limits of Performance (Summer - Winter)	43 °C Summer - 0 °C Winter



# Metropolitan Super Smart



## The most complete and the cheapest without rival in the world market.

Metropolitan air conditioner is designed for high or low wall installation.

**It's the cheapest monoblock in the world with no rival in both categories of machines, with on/off compressor or inverter.**

Metropolitan's range is the latest born in the family of double duct units and is available in more versions and a wide choice of accessories, as external grids, additional electric heater, water heat exchanger, outdoor air intake, remote room thermostat and many others.



Discover the range of accessories the most comprehensive in the market to meet all installation requirements.

TECHNICAL DATA	10 HP	12 HP	12 HP INVERTER
Cooling Power	2.41 Kw (8.218 BTU/h)	2.75 Kw (9.377 BTU/h)	1.8-3.1 Kw (6.000 - 10.500 BTU/h)
Heating Power	2.35 Kw (8.013 BTU/h)	2.55 Kw (8.695 BTU/h)	1.8-3.0 Kw (6.000 - 10.200 BTU/h)
Input Power (Heating - Cooling)	862 - 750 Watt	1050 - 800 Watt	950 - 800 Watt
Energy Efficiency Ratio (EER)	A (2.79 W/W)	A (2.61 W/W)	A (2.80 W/W)
Coefficient Of Performance (COP)	A (3.10 W/W)	A (3.10 W/W)	A (3.30 W/W)
Holes diameter	16 cm	16 cm	16 cm
Noise SPL at 1 meter distance (compressor ON)	43 - 50 - 52 dB(A)	43 - 50 - 52 dB(A)	43 - 50 - 52 dB(A)
Ecological Gas	R410A	R410A	R410A
Machine dimensions	840 x 430 x 330 mm	840 x 430 x 330 mm	956 x 430 x 330 mm
Antibacterial filters	Yes	Yes	Yes
Limits of Performance (Summer - Winter)	52 °C Summer / - 20°C Winter	52 °C Summer / - 20°C Winter	52 °C Summer / - 20°C Winter

# INVISE water TRIAL POWER Technology



## TRIAL POWER technology grants a higher seasonal efficiency to the Air Conditioners with Inverter

INVISE Water is designed for being installed anywhere, either in the lower part of the wall, in a niche or highwall. Thanks to its unique function TRIAL POWER, it is the air conditioning monoblock with the lowest noise level in the market and with the highest seasonal efficiency, higher than any inverter air conditioner.

With these peculiarities the model INVISE Water is suitable for rooms of 30-35 square meters and it is an optimal solution for hotel rooms.

The very low noise level of 27 dBA in hydronic heating mode makes INVISE Water ideal for hoteliers and in all cases of restoration. The comfort given by this model is at top and impossible to be achieved with other air conditioners monoblock.

**The external air intake with heat exchanger plates of 70% efficiency reduces the concentration of CO2, without wasting energy. This function is particularly important for hotel rooms where guests stay.**



TECHNICAL DATA	INVISE water
Cooling Power	2.63 Kw (8.968 BTU/h)
Heating Power	2.73 Kw (9.309 BTU/h)
Hydronic Heating Power (water temperature 50 °C)	2.10 Kw (7.161 BTU/h)
Input Power (Heating - Cooling)	981 - 880 Watt
Energy Efficiency Ratio (EER)	A (2.67 W/W)
Coefficient Of Performance (COP)	A (3.10 W/W)
Holes diameter	16 cm
Noise SPL at 1 meter distance (compressor ON)	27 dB(A) hydronic - 37 - 40 - 46 dB(A)
Ecological Gas	R410A
Machine dimensions	1000 x 580 x 230 mm
Air Exchanger with heat recovery	Yes (70 % efficiency)
Antibacterial filters	Yes
Limits of Performance (Summer - Winter)	52 °C Summer / - 20 °C Winter

# INVISE WZ-32 High performance without compromise



## WZ-32 The most powerful heating pump without external unit in the world market 3.35 Kw Cooling Performance 4.02 Kw Heating Performance

INVISE WZ-32 is designed for floor standing installation but suitable also for high wall.

This is the world's most powerful air conditioner monoblock, unrivaled.

With its high cooling/heating capacity, it can climatise rooms of 40-50m2 with large thermal loads.

WZ-32 is optimal in shops, large living rooms and spaces having high heat loads, like wide windows, walls poorly insulated, exposed to South.

Reliable components and robust construction make it durable for heavy duty continuous working in summer and winter.

WZ-32 is equipped with a built-in electronic board assuring the control of all the functions. The remote handset control, after its use can be stored in its convenient compartment, reducing the possibility of losing it.

**Thanks to its high heating-cooling capacity it is the best product in the market for shops and large rooms with high thermal loads.**



TECHNICAL DATA	INVISE WZ-32
Cooling Power	3.35 Kw (11.420 BTU/h)
Heating Power	4.02Kw (13.694 BTU/h)
Input Power (Heating - Cooling)	1287 - 1214+500 Watt
Energy Efficiency Ratio (EER)	A (2.61 W/W)
Coefficient Of Performance (COP)	A (3.10 W/W)
Holes diameter	16 cm
Noise SPL at 1 meter distance (compressor ON)	37 - 44 - 48 dB (A)
Ecological Gas	R410A
Machine dimensions	1000 x 580 x 245 mm
Antibacterial filters	Yes
Limits of Performance (Summer - Winter)	52 °C Summer / - 10°C Winter



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