



50 AZ / UZ

PACKAGED ROOFTOP
COOLING ONLY / HEAT PUMPS



**BEST SOLUTION
TO YOUR NEEDS**

PRELIMINARY

ROBUST AND MORE COMPACT

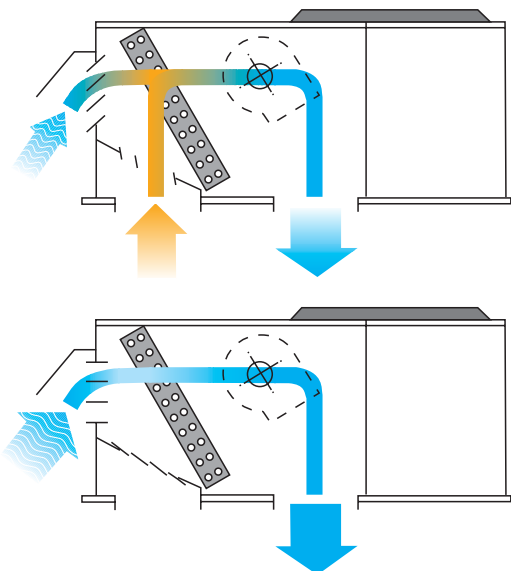


LONG LIFE FOR ALL SEASONS

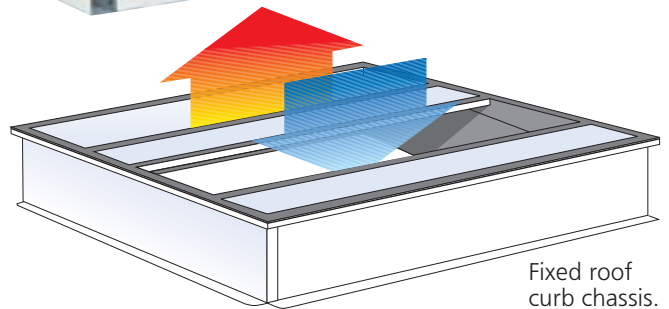
- Condenser and evaporator fins are made of precoated "Blue Fin" aluminium, ensuring optimum corrosion resistance.
- In heat pumps the water-resistant properties of this coating allow reduced defrost cycles and enhanced performances.



- Easy access to filter, control box and internal components through hinged and locked doors saves valuable time during maintenance.



They are the ideal solution for air conditioning light buildings, supermarkets, warehouses, small office buildings... Wide installation flexibility sets new standards, making the units adaptable to all installation configurations.

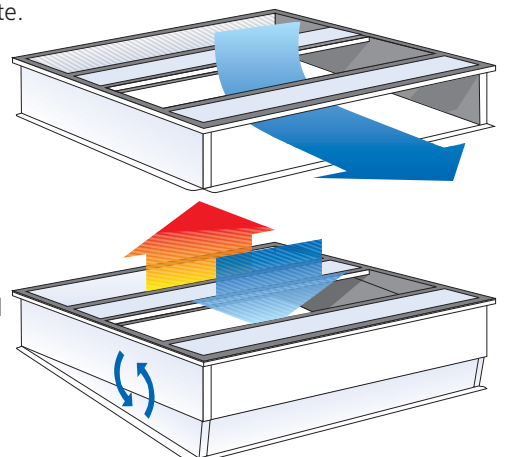


Fixed roof curb chassis.

GREAT INSTALLATION FLEXIBILITY

The accessory roof curb offers a number of advantages: perfect seal between air conditioner and roof, ducts are prefabricated before the installation of the rooftop unit, fast unit positioning... Several different versions permit perfect adaptation at the installation site.

- Fixed chassis roof curbs available for both vertical and horizontal air discharge. (Unit is easily transformable to front return discharge on site, by simply changing the panels.)
- Tilting chassis with longitudinal or transverse slope control from 2 to 10°.



OPTIMUM EFFICIENCY

Rooftop units can be equipped with an Economizer - a truly intelligent system, permitting:

- Control of the air quality in the building by supplying the required amount of fresh outside air.
- Considerable energy savings by using fresh outside air during intermediate seasons and morning warm-up periods (free-cooling principle).
- Control, based on a comparison between the enthalpy of return and outside air.



ENVIRONMENTAL FRIENDLY

50 AZ / UZ rooftops are designed to operate using HFC-407C.

This refrigerant is fully researched and has been used by Carrier for several years in liquid chillers. HFC-407C is chlorine-free and not harmful to the ozone layer.

50 AZ / UZ rooftops ensure individual comfort while considering the need to protect our environment.

HEATING MODE OPERATION VERSATILITY



Heat Pumps

Reversible heat pumps offer a solution that is suitable for any climate, and guarantees excellent energy efficiency (COP) that considerably reduces your heating bills.

Electric Resistance Heaters

An economical investment that is easy to use and available in several capacities.

Hot Water Coil

The 3-way proportional valve controlled coils are designed for high heating loads, this configuration needs centralised hot water generation. The coil is available in a wide range of capacities.



PRO-DIALOG *Plus* Simplified Use

Pro-Dialog Plus has a clear and user-friendly operator interface. Keys on the synoptic panel of the refrigerant circuit allow immediate display of all operating parameters; pressures, temperatures, operating hours, set points etc.

Optimised Operation

Pro-Dialog Plus goes further to achieve optimised unit operation and energy consumption. For example:

- Reset of operating and outside temperature set points.
- Control of the three-way valve from the hot water coil.
- Operation of several units in a slave/master protocol.

“FLYING BIRD” FAN

Renewed For Its Extreme Discretion

Controlled noise.

Eurotop is equipped with the ultra-quiet Flying Bird fan to ensure unrivalled sound quality. The secret?

A fan wheel made of a composite material with a rotating shroud that eliminates leakage between the fan blades and shroud for extremely low noise levels without peaks in the low-frequency range. The fan chassis, designed to prevent the transmission of vibrations to the rest of the structure. A two-speed motor that automatically selects the low fan speed, when outside temperature and heat load are reduced—for example during the night. Noise has never been so discreet!

Two speeds motors allows to go -10 C outdoor temperature in cooling mode operation.



SMART COMMUNICATION

With Pro-Dialog Plus 50 AZ / UZ Rooftops can be connected to the Carrier Comfort Network by a communications bus (RS 485), offering a number of local or remote (via modem) monitoring possibilities. Pro-Dialog Plus can communicate with other monitoring systems via specific interfaces, using proprietary controls.

ROOFTOP UNIT - 50 AZ / UZ

TECHNICAL DATA

		Cooling Only					
50 AZ		016	020	024	028	034	040
Cooling capacity*	kW	43	54.1	70	78.1	99.5	116.1
Effective power input***	kW	16.14	25.16	29.85	34.74	42.37	50.81
Compressor type/quantity		Scroll/1	Hermetic/2	Scroll/2	Scroll/2	Hermetic/2	Hermetic/2
Refrigerant		R407C					
Indoor nominal air flow	l/s	2,528	3,444	3,472	3,944	5,550	5,550
Outdoor nominal air flow	l/s	6,100	6,600	10,600	10,600	13,000	12,500
Power supply		400V - 3ph - 50Hz					
Length	mm	2,189	2,189	2,189	2,189	2,193	2,193
Depth	mm	2,120	2,120	2,120	2,120	3,577	3,577
Height	mm	1,369	1,369	1,775	1,775	1,790	1,790
Weight	kg	720	730	1,010	1,027	1,460	1,470

		Heat Pump					
50 UZ		016	020	024	028	034	040
Cooling capacity*	kW	41	52	68,5	77	96.7	112
Effective power input***	kW	15.66	24.20	29.76	33.04	41.50	48.06
Heating capacity**	kW	45	56.7	79	85	102	112.1
Effective power input**	kW	15.42	19.99	31.54	34.00	36.69	40.23
Compressor type/quantity		Scroll/1	Hermetic/2	Scroll/2	Scroll/2	Hermetic/2	Hermetic/2
Refrigerant		R407C					
Indoor nominal air flow	l/s	2,528	3,444	3,472	3,944	5,550	5,550
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Power supply		400V - 3ph - 50Hz					
Length	mm	2,189	2,189	2,189	2,189	2,193	2,193
Depth	mm	2,120	2,120	2,120	2,120	3,577	3,577
Height	mm	1,369	1,369	1,775	1,775	1,790	1,790
Weight	kg	730	740	1,020	1,037	1,510	1,520

* Nominal 50 AZ / UZ conditions: outdoor air 35°C db, indoor 19°C wb

** Nominal 50 AZ / UZ conditions: outdoor air 6°C wb, indoor 20°C db

***Effective power input according to Eurovent.

Options

- Economizer (Freecooling - ethalpic)
- Economizer (Freecooling - thermostatic)
- Electric heater
- Hot water coil with 3-way prop. valve
- Power exhaust
- Superior drive (indoor fan)
- Dirty filter alarm
- High-efficiency filters
- Smoke detector with economizer
- Economizer hood
- Crankcase heater (Standard all sizes except 50 AZ 016-028)
- Manual outdoor air damper
- Air flow dedector

Accessories

- Economizer (Freecooling - ethalpic)
- Economizer (Freecooling - thermostatic)
- Electric heater
- Hot water coil with 3-way prop. valve
- Front discharge
- Vertical roof curb
- Adjustable longitudinal roof curb, vert, discharge
- Adjustable transverse roof curb, vert, discharge
- Air return fan
- Power exhaust
- Dirty filter alarm
- High-efficiency filters
- Additional space temperature sensor
- Smoke detector with economizer
- Economizer hood
- Thermostat - Programmable TSTAT
- Thermostat - Non-Programmable TSTAT
- IAQ - Indoor air quality sensor
- Crankcase heater (Standard all sizes except for 50 AZ 016-028)
- Manual outdoor air damper
- Air flow dedector

QUALITY ASSURANCE



The company reserves its right to change its products due to technological developments.

Order No.: 15710-20 New

