



**FLEXI  
AIR**

SINGLE SKIN  
PACKAGED ROOF TOPS  
*With Scroll compressors*





## THE COMPACT SOLUTION

**FLEXI AIR** is the range of compact Packaged Roof Top units for outdoor installation, ideal for cooling and warming wide public and industrial buildings.

The units feature **R410A refrigerant**, **Scroll compressors** and **single-skin panels**.

The range includes 14 sizes covering the cooling capacities from 4 to 54 TON and is available on **cooling only** version or on **reversible heat pump** version for both cooling and heating.

The range is available with **400V power supply and 50 Hz frequency** or **380V power supply and 60 Hz frequency** and ensures the perfect functioning even on regions with high temperature, being able to work **up to 52 °C external air temperature**.



*Scroll Compressors*



*R410A Refrigerant*



*Single Skin*



*For High Temperature Regions*



## THE KEY BENEFITS

### Long lasting cabinet.

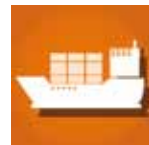
The cabinet features a solid **steel structure with zinc coated galvanized treatment**. For the highest weather resistance from corrosion, it is further coated with an electrostatic powder coat and then oven-baked.



*Long Lasting*

### Optimized logistics.

The unit structure is extremely **compact** to limit the occupied space. Its flat top design and the structure strength allows to **stack the units**, optimizing warehouse and transportation costs.



*Optimized Logistics*

### Automatic restart.

In case of unit stop due to a power failure, once the power is resumed, the microprocessor manages the restart as last setting condition.



*Automatic Restart*

### Eco-friendly.

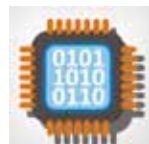
FLEXI AIR units feature **R410A refrigerant** and high efficiency **Scroll compressors**. An **ECONOMIZER** is also available as loose accessory. Based on a **FREE-COOLING** logic, it utilizes the outdoor air for cooling or warming the internal air; the two dampers are intelligently managed by an electronic control that constantly monitors the internal and external air temperatures and manages the opening and closure of dampers accordingly.



*Eco-friendly*

### Intelligent Microprocessor Control.

FLEXI AIR units are electronically controlled by a **microprocessor operated handset**, to manage temperature, modes, timers and to check error codes.



*Microprocessor Control*



*Controller for  
mono-circuit units*



*Controller for  
multi-circuit units*



## FULL INSTALLATION FLEXIBILITY

The unit easily adapts to the specific installation needs: the airflow direction for both air delivery and intake can be adjusted directly onsite. Air delivery and intake are foreseen both on the same side in order to keep the overall space at minimum.



*Flexibility*

### HORIZONTAL air delivery & intake









### VERTICAL air delivery & intake



## THE FLEXI AIR SINGLE SKIN RANGE

The FLEXI AIR range features Single Skin and Scroll compressors and is available in 2 different versions: Cooling only and Reversible Heat Pump. The range is available with **400V power supply and 50 Hz frequency** or **380V power supply and 60 Hz frequency** and is dedicated to high temperature regions **up to 52 °C**.

Model		Versions	    
50Hz	60Hz		
RTQXT-M/K 51÷804	RTQXT-M/SZ/K 51÷804	Cooling only Reversible Heat Pump	

ECONOMIZER available as factory fitted accessory



 Scroll Compressors
  Radial Fans
  Single Skin
  For High Temperature regions



50 Hz

## RTQXT-M/K 51÷804

Single skin Packaged Roof Top units with Scroll compressors.



Scroll Compressors



Radial Fans



Single Skin



For High Temperature Regions

RTQXT-M/K			51	61	81	101	131	161	201	
50Hz	Cooling	Cooling capacity (1)	TON	3.3	4.2	5.0	6.7	8.3	10.0	12.5
			kW	11.7	14.6	17.6	23.4	29.3	35.2	43.9
		Absorbed power (1),(2)	kW	4.9	6.2	7.6	9.5	12.3	15.8	19.0
			Cooling capacity (3)	TON	3.7	4.6	5.5	7.4	9.2	11.1
		kW		13.0	16.2	19.5	26.0	32.5	39.0	48.7
	Heating	Absorbed power (2),(3)	kW	4.0	5.0	6.2	7.8	10.1	13.0	15.6
			Heating capacity (4)	TON	3.7	4.7	5.6	7.5	9.3	11.2
		kW		13.1	16.4	19.7	26.3	32.8	39.4	49.2
		Absorbed power (2),(4)	kW	4.1	5.1	6.3	7.9	10.3	13.2	15.9
			Air treatment section	Air flow	cfm	1271	1694	1906	2753	3389
m³/s	0.6	0.8			0.9	1.3	1.6	1.9	2.4	
Available static pressure	in WG	0.40		0.40	0.40	0.60	0.60	0.60	0.60	
Compressors		Pa	100	100	100	150	150	150	150	
Refrigerant circuits		n°	1	1	1	1	1	1	1	
Capacity steps		n°	1	1	1	1	1	1	1	
Sound pressure (5)		dB(A)	52	54	54	55	59	60	60	

RTQXT-M/K			262	324	404	484	544	604	804	
50Hz	Cooling	Cooling capacity (1)	TON	16.7	20.8	25.0	30.1	33.3	40.1	50.0
			kW	58.6	73.2	87.9	106	117	141	176
		Absorbed power (1),(2)	kW	24.6	31.5	38.3	44.3	49.1	63.1	76.7
			TON	18.5	23.1	27.7	33.3	37.0	44.4	55.4
		Heating	Cooling capacity (3)	kW	65.0	81.2	97.5	117	130	156
	kW			20.0	24.4	31.2	35.9	39.9	51.1	62.5
	Heating capacity (4)		TON	18.7	23.3	28.0	33.6	37.2	44.9	56.0
		kW	65.6	82.0	98.4	118	131	158	197	
		kW	20.3	26.8	31.8	36.5	40.6	52.0	63.5	
	Air treatment section	Air flow	cfm	6778	8260	9955	12073	13343	16097	19909
m³/s			3.2	3.9	4.7	5.7	6.3	7.6	9.4	
Available static pressure		in WG	1.20	1.20	1.20	1.20	1.20	1.20	1.20	
		Pa	300	300	300	300	300	300	300	
Compressors		n°	2	4	4	4	4	4	4	
Refrigerant circuits		n°	2	2	2	2	2	2	2	
Capacity steps		n°	2	2	2	2	4	4	4	
Sound pressure (5)		dB(A)	60	62	62	61	62	62	62	

DIMENSIONS		51	61	81	101	131	161	201	262	324	404	484	544	604	804
L	mm	1200	1200	1350	1600	1700	1900	2140	1900	2190	2330	3040	3175	3215	3650
W	mm	1200	1200	1300	1200	1450	1450	1750	1700	1850	1850	2100	2250	2250	2250
H	mm	1050	1050	1050	1200	1200	1200	1200	1800	1800	2100	2100	2100	2380	2380

### CLEARANCE AREA (mm)

RTQXT-M/K 51÷804

1000 | 1000 | 1000 | 1000

Electrical board side



### NOTES

1. Evaporator inlet air temperature 27 °C d.b./19 °C w.b., ambient air temperature 46 °C.
2. Excluded the power absorbed by radial fans.
3. Evaporator inlet air temperature 27 °C d.b./19 °C w.b., ambient air temperature 35 °C.
4. Condenser inlet air temperature 20 °C, ambient air temperature 7 °C d.b./6 °C w.b.
5. Sound pressure level measured in free field conditions at 1 m from the unit. According to ISO 3744.



**60 Hz**

## RTQXT-M/SZ/K 51÷804

Single skin Packaged Roof Top units with Scroll compressors.



Scroll Compressors



Radial Fans



Single Skin



For High Temperature Regions

RTQXT-M/SZ/K			51	61	81	101	131	161	201	
60Hz	Cooling	Cooling capacity (1)	TON	3.1	4.2	5.0	6.5	8.1	9.8	12.2
			kW	11.0	14.6	17.6	22.8	28.6	34.3	42.8
		Absorbed power (1),(2)	kW	4.8	6.0	7.4	9.3	12.0	15.4	18.5
		Cooling capacity (3)	TON	3.6	4.5	5.4	7.2	9.0	10.8	13.5
		kW	12.8	15.8	19.1	25.3	31.7	38.0	47.5	
	Absorbed power (2),(3)	kW	3.9	4.8	6.0	7.6	9.9	12.7	15.2	
	Heating	Heating capacity (4)	TON	3.7	4.7	5.6	7.5	9.3	11.2	14.0
			kW	13.1	16.4	19.7	26.3	32.8	39.4	49.2
		Absorbed power (2),(4)	kW	4.0	5.0	6.1	7.7	10.0	12.9	15.5
	Air treatment section	Air flow	cfm	1271	1694	1906	2753	3389	4024	5083
			m³/s	0.6	0.8	0.9	1.3	1.6	1.9	2.4
		Available static pressure	in WG	0.40	0.40	0.40	0.60	0.60	0.60	0.60
		Pa	100	100	100	150	150	150	150	
Compressors		n°	1	1	1	1	1	1	1	
Refrigerant circuits		n°	1	1	1	1	1	1	1	
Capacity steps		n°	1	1	1	1	1	1	1	
Sound pressure (5)		dB(A)	52	54	54	55	59	60	60	

RTQXT-M/SZ/K			262	324	404	484	544	604	804		
60Hz	Cooling	Cooling capacity (1)	TON	16.3	20.3	24.4	29.3	32.4	39.0	48.9	
			kW	57.2	71.4	85.7	103	114	137	172	
		Absorbed power (1),(2)	kW	24.0	30.5	37.4	43.2	47.8	61.5	74.7	
			Cooling capacity (3)	TON	18.0	22.5	27.0	32.4	36.1	43.2	54.3
		kW		63.4	79.2	95.1	114	127	152	191	
		Heating	Absorbed power (2),(3)	kW	19.5	23.8	30.4	35.0	38.8	49.8	61.0
	Heating capacity (4)			TON	18.7	23.3	28.0	33.6	37.2	44.9	56.0
			kW	65.6	82.0	98.4	118	131	158	197	
	Absorbed power (2),(4)		kW	19.8	26.5	31.0	35.6	39.6	50.7	61.9	
			Air treatment section	Air flow	cfm	6778	8260	9955	12073	13343	16097
	m³/s				3.2	3.9	4.7	5.7	6.3	7.6	9.4
	Available static pressure	in WG		1.20	1.20	1.20	1.20	1.20	1.20	1.20	
Pa		300	300	300	300	300	300	300			
Compressors		n°	2	4	4	4	4	4			
Refrigerant circuits		n°	2	2	2	2	2	2			
Capacity steps		n°	2	2	2	2	4	4			
Sound pressure (5)		dB(A)	60	62	62	61	62	62			

DIMENSIONS		51	61	81	101	131	161	201	262	324	404	484	544	604	804
L	mm	1200	1200	1350	1600	1700	1900	2140	1900	2190	2330	3040	3175	3215	3650
W	mm	1200	1200	1300	1200	1450	1450	1750	1700	1850	1850	2100	2250	2250	2250
H	mm	1050	1050	1050	1200	1200	1200	1200	1800	1800	2100	2100	2100	2380	2380

### CLEARANCE AREA (mm)

RTQXT-M/SZ/K 51÷804

1000 | 1000 | 1000 | 1000

Electrical board side



### NOTES

1. Evaporator inlet air temperature 27 °C d.b./19 °C w.b., ambient air temperature 46 °C.
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