CHAPTER 4 - UPPER LINE

	Power (kW)	Page

URT/EC/WP 051÷131 S/K

50 150 300

Single Skin packaged Roof Top units with Scroll compressors and EC Inverter Plug-Fans

AIRPLUS

63-162 kW
65-171 kW

164 - 165

URT/EC 051÷212 S/IK

50 150 300

Double Skin packaged Roof Top units with Inverter Scroll compressors and EC Inverter Plug-Fans

AIRMAXI

58-252 kW
60-262 kW

166 - 167

URT/EC/MS 051÷212 S/IK

50 150 300

Double Skin packaged Roof Top units with Inverter Scroll compressors, EC Inverter Plug-Fans and Mixing Box

AIRMAXI

58-252 kW
60-262 kW

168 - 169

URT/EC/ECO 051÷212 S/IK

50 150 300

Double Skin packaged Roof Top units with Inverter Scroll compressors, EC Inverter Plug-Fans and Economizer

AIRMAXI

58-252 kW
60-262 kW

170 - 171

URT/EC/ECO/REC-FX 051÷212 S/IK

50 150 300

Double Skin packaged Roof Top units with Inverter Scroll compressors, EC Inverter Plug-Fans, Economizer and Cross-flow Heat Recovery

AIRMAXI

58-252 kW
60-262 kW

172 - 173

URT/EC/ECO/REC-WH 051÷212 S/IK

50 150 300

Double Skin packaged Roof Top units with Inverter Scroll compressors, EC Inverter Plug-Fans, Economizer and Wheel Heat Recovery

AIRMAXI

58-252 kW
60-262 kW

174 - 175

URT/EC 051÷212 S/K

50 150 300

Double Skin packaged Roof Top units with Scroll compressors and EC Inverter Plug-Fans

AIRMAXI

58-252 kW
60-262 kW

176 - 177

CHAPTER 4 - UPPER LINE

	Power (kW)	Page
URT/EC/MS 051÷212 S/K Double Skin packaged Roof Top units with Scroll compressors, EC Inverter Plug-Fans and Mixing Box	58-252 kW 60-262 kW	178 - 179
URT/EC/ECO 051÷212 S/K Double Skin packaged Roof Top units with Scroll compressors, EC Inverter Plug-Fans and Economizer	58-252 kW 60-262 kW	180 - 181
URT/EC/ECO/REC-FX 051÷212 S/K Double Skin packaged Roof Top units with Scroll compressors, EC Inverter Plug-Fans, Economizer and Cross-flow Heat Recovery	58-252 kW 60-262 kW	182 - 183
URT/EC/ECO/REC-WH 051÷212 S/K Double Skin packaged Roof Top units with Scroll compressors, EC Inverter Plug-Fans, Economizer and Wheel Heat Recovery	58-252 kW 60-262 kW	184 - 185

LEGENDA

Version
- Cooling only
- Heating only
- Cooling & Heating

Compressor
- Rotary
- Inverter Scroll
- Digital Scroll
- Scroll
- Inverter Screw
- Screw
- Turbocor
- Inverter Centrifugal
- Centrifugal

Fan
- Axial
- Radial
- High ESP Radial
- EC Inverter Plug-Fan

Exchanger
- Plate
- Shell and Tube
- Flooded Shell and Tube
- Microchannel

Solution
- Free-Cooling
- Domestic Hot Water
- AquaLogik
- A Class Cooling
- A Class Heating

Solution
- 4-Pipe system
- Web Monitoring
- Silenced
- Super silenced
- Single Skin
- Double Skin
- Mixing Box
- Economizer
- Economizer and Thermodynamic Coil-Boost Heat Recovery
- Economizer and Cross-flow Heat Recovery
- Economizer and Wheel Heat Recovery

Refrigerant
- R410A
- R452B
- R454B
- R407C
- R134A
- R513A
- R1234ze
- H_2O


KTK
AIRMAXI

UPPER LINE

Packaged Roof Top units with single or double skin for medium and wide areas.

URT/EC/WP 051÷131 S/K	164 - 165
URT/EC 051÷212 S/IK	166 - 167
URT/EC/MS 051÷212 S/IK	168 - 169
URT/EC/ECO 051÷212 S/IK	170 - 171
URT/EC/ECO/REC-FX 051÷212 S/IK	172 - 173
URT/EC/ECO/REC-WH 051÷212 S/IK	174 - 175
URT/EC 051÷212 S/K	176 - 177
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URT/EC/ECO 051÷212 S/K	180 - 181
URT/EC/ECO/REC-FX 051÷212 S/K	182 - 183
URT/EC/ECO/REC-WH 051÷212 S/K	184 - 185

URT/EC/WP 051÷131 S/K

SINGLE-SKIN PACKAGED ROOF TOP UNITS WITH SCROLL COMPRESSORS AND EC INVERTER PLUG-FANS.

The single skin packaged Roof Top units of the **AIRPLUS** series are the ideal solution for air conditioning of medium-wide surfaces such as shopping malls and restaurants, canteens or for industrial areas. The units are equipped with Scroll compressors with R410A refrigerant, and are available in Reversible Heat Pump version also with **Free-Cooling** with 2 or 3 dampers. AIRPLUS is equipped with **EC Inverter Plug-Fans** with high energy efficiency backward blades both for intake as well as delivery, managed by an electronic control adjusting fans' rotational speed to adapt the air flow to the system capacity. The unit can easily adapt to diverse engineering needs thanks to the possibility of selecting onsite the air flow direction, choosing among 8 positions of both intake and output air direction. The unit's structure is made of a frame with extruded aluminium profiles and prepainted panels, and features flat type filters with varying efficiency levels, maintaining high air quality and high comfort.
The unit can be equipped, as an option, with the innovative **Thermodynamic Coil-Boost Heat Recovery** to achieve better performance and efficiency both in cooling and heating up to 15%.

The units are compliant to the ErP Regulation with ECA accessory (EC Inverter fans on condensing section).

FROM 63 KW TO 162 KW.

VERSION

URT/EC/WP
Reversible Heat Pump

URT/EC/WP/MS
Reversible Heat Pump with Free-Cooling section (2 dampers)

URT/EC/WP/ECO
Reversible Heat Pump with Economizer (Free-Cooling section with 3 dampers)

FEATURES

- Structure of base perimeter made of galvanised steel sheet elements. The frame is made of extruded aluminium alloy profiles connected by 3 way joints. The assembling of the base to the frame is of dual support and grants the walking on the base panels installation of which is effected without sticking out screws. The perimeter panels are realised in prepainted sheet steel, they can be easily removed and allow access inside the unit for maintenance and repair operations.
- Scroll compressors with oil sight glass, internal overheat protection and crankcase heater.
- Condenser and evaporator with copper tube and aluminium finned coil.
- High efficiency delivery & intake reverse blade EC INVERTER PLUG-FANS, with electronic speed control to easily adapt to the system characteristics.
- The air treatment section has removable panels allowing the selection of intake and output configurations that adapt to the specific needs of the system.
- R410A refrigerant.
- Electrical board includes: door interlocking isolator, fuses, thermal protection relays on compressors, thermocontacts for the fans of the condensing section and contactors for the fan motors of the air handling section.
- Microprocessor for the automatic control of the unit.

ACCESSORIES

FACTORY FITTED ACCESSORIES:

IM	Automatic circuit breakers
SL	Unit silencement
THCB	Thermodynamic Coil-Boost Heat Recovery (ECO only)
RFM	Cooling circuit shut-off valve on discharge line
RFL	Cooling circuit shut-off valve on liquid line
ECA	EC Inverter fans on condensing section
CT	Condensing control down to 0 °C
CC	Condensing control down to -20 °C
TXC	Condensing coil with pre-coated fins
TXE	Evaporating coil with pre-coated fins
FT	Plate filters efficiency M6-F7-F8
AT	Constant air flow regulation control
AT/P	Constant available static pressure regulation control
WS2	Hot water coil with 3-Way valve
EHG	Electrical heater with step regulation
CH	Enthalpic control (ECO only)
SQ	Air quality sensor
SSA	Active sanitation systems
PF	Filter differential pressure switch
IS	Modbus RTU protocol, RS485 serial interface
IST	Modbus TCP/IP protocol, Ethernet port
ISB	BACnet MSTP protocol, RS485 serial interface
ISBT	BACnet TCP/IP protocol, Ethernet port
ISL	LonWorks protocol, FTT-10 serial interface
ISS	SNMP protocol, Ethernet port
CP	Potential free contacts

LOOSE ACCESSORIES:

MN	High and low pressure gauges
CS	Dampers rain hood
CR	Remote control panel
RP	Coils protection metallic guards
AG	Rubber shock absorbers

ErP SCOP

TECHNICAL DATA - URT/EC/WP 051÷131 S/K

MODEL			051	061	071	081	091	101	111	131
Heating	Heating capacity (1)	kW	62.9	71.1	81.2	92.9	107	123	142	162
	Absorbed power (1).(2)	kW	18.6	21.7	25.2	28.1	31.0	38.1	42.6	50.1
Heating (EN14511)	SCOP with ECA accessory (3)		3.24	3.26	3.26	3.3	3.3	3.26	3.28	3.28
	Energy Efficiency with ECA accessory (3)	%	127	127	127	129	129	127	128	128
Cooling	Cooling capacity (4)	kW	64.9	73.8	85.6	96.8	111	128	147	171
	Absorbed power (2).(4)	kW	20.9	24.2	27.2	30.0	35.4	41.1	45.9	54.1
Cooling (EN14511)	SEER with ECA accessory (5)		3.53	3.54	3.54	3.58	3.55	3.57	3.65	3.63
	Energy Efficiency with ECA accessory (5)	%	138	139	139	140	139	140	143	142
Air treatment section	Air flow	m³/s	2.50	2.78	3.34	3.61	4.44	4.44	5.83	6.67
	Available static pressure	Pa	200	200	200	200	200	200	200	200
	Fan	n°	1	1	1	1	2	2	2	2
	Filter	Tipo	G4	G4	G4	G4	G4	G4	G4	G4
Air intake section	Air flow	m³/s	2.00	2.22	2.67	2.89	3.55	3.55	4.72	5.33
	Available static pressure	Pa	100	100	100	100	100	100	100	100
	Fan	n°	1	1	1	1	1	1	1	1
Condensing section	Compressor	n°	2	2	2	2	2	3	3	3
	Refrigerant circuits	n°	1	1	1	1	1	1	1	1
	Capacity steps	n°	2				2		3	
Hot water coil	Heating capacity (6)	kW	65.4	68.6	74.9	78.9	84.9	84.9	103	110
	Air pressure drops	Pa	16	19	26	30	43	43	68	86
	Water flow (6)	l/s	1.56	1.64	1.79	1.89	2.03	2.03	2.46	2.62
	Water connections	"G	2	2	2	2	2	2	2	2
Electrical heater	Power supply	V/Ph/Hz	400/3/50				400/3/50			
	Heating capacity	kW	21	27	27	27	40	40	40	48
	Max. absorbed current	A	30	39	39	39	59	59	59	69
	Steps	n°	2	2	2	2	4	4	4	4
Electrical characteristics	Power supply	V/Ph/Hz	400/3/50				400/3/50			
	Max. running current	A	53	56	65	69	79	91	110	131
	Max. starting current	A	190	165	188	201	208	215	242	260
Sound pressure	STD/MS/ECO versions (7)	dB(A)	56	56	60	60	60	60	61	61
Weights	Transport weight	Kg	1280	1315	1370	1380	1475	1570	1920	2020
	Operating weight	Kg	1265	1300	1355	1365	1460	1555	1900	2000

MS - ECO

MS. Free-Cooling section with 2 dampers - Further to components of the basic version, includes two wing profile aluminium dampers with spring return servomotors (dampers with opposite movement).
ECO. Free-Cooling section with 3 dampers - Further to components of the basic version, includes return air EC INVERTER PLUG-FANS; motorized wing profile aluminium dampers (dampers with opposite movement). Exhaust, recirculation and fresh air are controlled through the microprocessor fitted in the base unit; this microprocessor, according to the temperature of the return and fresh air, modulates the opening of the dampers and controls the cooling circuit capacity steps to ensure comfort conditions of the handled air. The adjustments of the ECO versions are automatically controlled both in free-cooling and free-heating mode.

DIMENSIONS

MODEL			051	061	071	081	091	101	111	131
L	STD/MS/ECO	mm	2930	2930	2930	2930	2930	2930	3930	3930
W	STD/MS/ECO	mm	2200	2200	2200	2200	2200	2200	2200	2200
H	STD/MS/ECO	mm	2370	2370	2370	2370	2370	2370	2370	2370

CLEARANCE AREA

URT/EC/WP 051÷131 S/K

1000	1800	1000	1000

Electrical board side

NOTES

1. Condenser inlet air temperature 20 °C, ambient air temperature 7 °C d.b./6 °C w.b.
2. Excluded the power absorbed by fans of air treatment section.
3. Seasonal energy efficiency of heating with average climatic conditions. According to EU Regulation n. 2016/2281.
4. Evaporator inlet air temperature 27 °C d.b./19 °C w.b.; ambient air temperature 35 °C.
5. Seasonal energy efficiency of cooling. According to EU Regulation n. 2016/2281.
6. Inlet air temperature 20 °C, water temperature 70/60 °C.
7. Sound pressure level measured in free field conditions at 1 m from the unit. According to ISO 3744.

N.B. Weights of MS and ECO versions are specified on technical brochure.

URT/EC 051÷212 S/IK

DOUBLE SKIN PACKAGED ROOF TOP UNITS WITH INVERTER SCROLL COMPRESSORS AND EC INVERTER PLUG-FANS.

The double skin packaged Roof Top units of the **AIRMAXI** series are the ideal solution for air conditioning of wide surfaces such as shopping malls and restaurants, canteens or for industrial areas. These units feature Inverter Scroll compressor with R410A refrigerant and **EC Inverter Plug-Fans.** The highest efficiency at partial loads is guaranteed by the Inverter Scroll technology on compressor since its power is varied proportionally to the requested thermal load. Furthermore, the EC Inverter Plug-Fans with high energy efficiency backward blades are managed by an electronic control adjusting fans' rotational speed to adapt the air flow to the system capacity.
Equipped with extruded aluminium alloy sections and 50mm-thick sandwich panelling, these units are available in Cooling only and Reversible Heat Pump version.
The flat or pocket filters help to keep the air quality at a suitable level in order to guarantee appropriate hygiene standards.

The units are compliant to the ErP Regulation.

FROM 58 KW TO 252 KW.

VERSION

URT/EC
Cooling only with EC Inverter Plug-Fans
URT/EC/WP
Reversible heat pump with EC Inverter Plug-Fans

FEATURES

- Structure of base perimeter made of steel sheet elements galvanised. Frame made of extruded aluminium alloy profiles connected by 3 way joints. Assembling of the base to the frame is of dual support and grants the walking on the base panels installation without sticking out screws. 50mm thick sandwich panels made of prepainted steel sheet; water proofing granted by gaskets having shape memory for perfect seal up even after repeated removals. Section connection is effected by means of assembling conic stirrups and water proofing is granted by gaskets.
- DC INVERTER Scroll and ON-OFF Scroll compressors with oil sight glass, internal overheat protection and crankcase heater.
- Condenser and evaporator with copper tube and aluminium finned coil.
- High efficiency delivery reverse blade EC INVERTER PLUG-FANS, with electronic speed control to easily adapt to the system characteristics.
- Electronic expansion valve.
- R410A refrigerant.
- Electrical board includes: door interlocking isolator, fuses, thermal protection relays on compressors, thermocontacts for the fans of the condensing section and contactors for the fan motors of the air handling section.
- Electronic proportional device to decrease the sound level, with a continuous regulation of the fan speed. This device also allows the cooling functioning of the unit by external temperature till -20°C.
- Microprocessor for the automatic control of the unit.

ACCESSORIES

FACTORY FITTED ACCESSORIES:

IM	Automatic circuit breakers
SL	Unit silencement
RFM	Cooling circuit shut-off valve on discharge line
RFL	Cooling circuit shut-off valve on liquid line
ECA	EC Inverter fans on condensing section
TXC	Condensing coil with pre-coated fins
TXE	Evaporating coil with pre-coated fins
FT/M	Soft bag filters efficiency M6-F7-F8
FT/R	Rigid bag filters efficiency M6-F7-F8
FT/E	Electrostatic filters
AT	Constant air flow regulation control
AT/P	Constant available static pressure regulation control
WS2	Hot water coil with 3-Way valve
EHG	Electrical heater with step regulation
SQ	Air quality sensor
SSA	Active sanitation systems
PF	Filter differential pressure switch
IS	Modbus RTU protocol, RS485 serial interface
IST	Modbus TCP/IP protocol, Ethernet port
ISB	BACnet MSTP protocol, RS485 serial interface
ISBT	BACnet TCP/IP protocol, Ethernet port
ISL	LonWorks protocol, FTT-10 serial interface
ISS	SNMP protocol, Ethernet port
CP	Potential free contacts
RP	Coils protection metallic guards

LOOSE ACCESSORIES:

MN	High and low pressure gauges
CR	Remote control panel
AG	Rubber shock absorbers

TECHNICAL DATA - URT/EC 051÷212 S/IK

MODEL			051	061	071	081	091	101	111	131	152	172	212
Cooling	Cooling capacity (1)	kW	57.9	65.8	77.6	87.4	98.6	113	129	145	168	198	252
	Absorbed power (1),(2)	kW	19.4	21.8	24.6	26.2	30.8	37.8	40.4	43.3	54.6	61.5	85.1
Cooling (EN14511)	SEER (3)		4.57	4.61	4.78	4.81	4.69	4.53	4.52	4.66	4.42	4.29	4.31
	Energy Efficiency (3)	%	180	181	188	189	185	178	178	183	174	169	169
Heating	Heating capacity (4)	kW	60.2	67.2	76.8	88.6	101	115	133	151	173	204	262
	Absorbed power (2),(4)	kW	16.8	17.9	20.2	22.8	25.2	32.2	34.0	40.0	45.7	50.4	70.5
Heating (EN14511)	SCOP (5)		3.46	3.51	3.62	3.60	3.57	3.40	3.44	3.52	3.56	3.55	3.47
	Energy Efficiency (5)	%	135	137	142	141	140	133	135	138	139	139	136
Air treatment section	Air flow	m³/s	2.67	3.30	4.05	4.05	4.84	5.49	6.32	6.32	8.20	9.79	12.31
	Available static pressure	Pa	250	250	250	250	250	250	250	250	250	250	250
	Fan	n°	1	1	2	2	2	2	2	2	2	4	4
	Filter	Tipo	G4	G4	G4	G4	G4	G4	G4	G4	G4	G4	G4
Condensing section	Compressor	n°	2	2	2	2	2	2	2	2	4	4	4
	Refrigerant circuits	n°	1	1	1	1	1	1	1	1	2	2	2
	Capacity steps	n°	Stepless						Stepless				
Hot water coil	Heating capacity (6)	kW	85	100	125	125	150	175	200	200	250	300	350
	Air pressure drops	Pa	30	31	31	31	31	30	36	36	35	35	57
	Water flow (6)	l/s	2.03	2.39	2.99	2.99	3.58	4.18	4.78	4.78	5.97	7.17	8.36
	Water pressure drops	kPa	45	47	48	48	49	44	51	51	53	57	45
	Water connections	"G	1"½	1"½	1"½	1"½	1"½	2"	2"	2"	2"	2 ½"	2 ½"
Electrical heater	Power supply	V/Ph/Hz	400/3/50						400/3/50				
	Heating capacity	kW	15	21	27	27	27	41	41	41	41	48	55
	Max. absorbed current	A	22	30	39	39	39	59	59	59	59	69	79
	Steps	n°	2	2	2	2	2	4	4	4	4	4	4
Electrical characteristics	Power supply	V/Ph/Hz	400/3/50						400/3/50				
	Max. running current	A	46	47	56	60	69	88	93	102	126	148	170
	Max. starting current	A	169	169	179	192	236	212	225	269	258	315	344
Sound pressure (7)		dB(A)	57	57	57	57	57	58	59	59	60	60	61
Weights	Transport weight	Kg	990	1050	1150	1250	1260	1450	1810	1860	2230	2400	3180
	Operating weight	Kg	975	1035	1135	1235	1245	1430	1790	1840	2210	2380	3150

COMPLEMENTARY SECTIONS

UM	Section with preparation for Humidifier
UM/EN	Section Humidifier with electrodes immersed
F/CD	Condensation endothermic hot air generator with modulating gas burner

DIMENSIONS

MODEL			051	061	071	081	091	101	111	131	152	172	212
L	STD	mm	2980	3080	3190	3190	3290	3770	4500	4500	5150	5300	7370
W	STD	mm	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200
H	STD	mm	2100	2340	2340	2340	2340	2340	2340	2340	2340	2510	2510

CLEARANCE AREA

URT/EC 051÷101 S/IK

800 | 1700 | 800 | 1700

URT/EC 111÷212 S/IK

1000 | 1700 | 1000 | 1700

Electrical board side

NOTES

1. Evaporator inlet air temperature 27 °C d.b./19 °C w.b.; ambient air temperature 35 °C.
2. Excluded the power absorbed by fans of air treatment section.
3. Seasonal energy efficiency of cooling. According to EU Regulation n. 2016/2281.
4. Condenser inlet air temperature 20 °C, ambient air temperature 7 °C d.b./6 °C w.b.
5. Seasonal energy efficiency of heating with average climatic conditions. According to EU Regulation n. 2016/2281.
6. Inlet air temperature 20 °C, water temperature 70/60 °C.
7. Sound pressure level measured in free field conditions at 1 m from the unit. According to ISO 3744.

N.B. Weights of WP version are specified on technical brochure.

URT/EC/MS 051÷212 S/IK

DOUBLE SKIN PACKAGED ROOF TOP UNITS WITH INVERTER SCROLL COMPRESSORS, EC INVERTER PLUG-FANS AND MIXING BOX.

The double skin packaged Roof Top units of the **AIRMAXI** series are the ideal solution for air conditioning of wide surfaces such as shopping malls and restaurants, canteens or for industrial areas. These units feature Inverter Scroll compressor with R410A refrigerant and **EC Inverter Plug-Fans.** The highest efficiency at partial loads is guaranteed by the Inverter Scroll technology on compressor since its power is varied proportionally to the requested thermal load. Furthermore, the EC Inverter Plug-Fans with high energy efficiency backward blades are managed by an electronic control adjusting fans' rotational speed to adapt the air flow to the system capacity.
Equipped with extruded aluminium alloy sections and 50mm-thick sandwich panelling, these units are available in Cooling only and Reversible Heat Pump version.
The flat or pocket filters help to keep the air quality at a suitable level in order to guarantee appropriate hygiene standards.
The MS units have an high level of modularity and adaptability to every plant-engineering need: these units feature, in addition to the basic sections, a **MIXING BOX.**

The units are compliant to the ErP Regulation.

FROM 58 KW TO 252 KW.

VERSION

URT/EC/MS
Cooling only with EC Inverter Plug-Fans and Mixing Box

URT/EC/WP/MS
Reversible Heat Pump with EC Inverter Plug-Fans and Mixing Box

FEATURES

- Structure of base perimeter made of steel sheet elements galvanised. Frame made of extruded aluminium alloy profiles connected by 3 way joints. Assembling of the base to the frame is of dual support and grants the walking on the base panels installation without sticking out screws. 50mm thick sandwich panels made of prepainted steel sheet; water proofing granted by gaskets having shape memory for perfect seal up even after repeated removals. Section connection is effected by means of assembling conic stirrups and water proofing is granted by gaskets.
- DC INVERTER Scroll and ON-OFF Scroll compressors with oil sight glass, internal overheat protection and crankcase heater.
- Condenser and evaporator with copper tube and aluminium finned coil.
- High efficiency delivery reverse blade EC INVERTER PLUG-FANS, with electronic speed control to easily adapt to the system characteristics.
- Electronic expansion valve.
- R410A refrigerant.
- Electrical board includes: door interlocking isolator, fuses, thermal protection relays on compressors, thermocontacts for the fans of the condensing section and contactors for the fan motors of the air handling section.
- Electronic proportional device to decrease the sound level, with a continuous regulation of the fan speed. This device also allows the cooling functioning of the unit by external temperature till -20°C.
- Microprocessor for the automatic control of the unit.

ACCESSORIES

FACTORY FITTED ACCESSORIES:

IM	Automatic circuit breakers
SL	Unit silencement
RFM	Cooling circuit shut-off valve on discharge line
RFL	Cooling circuit shut-off valve on liquid line
ECA	EC Inverter fans on condensing section
TXC	Condensing coil with pre-coated fins
TXE	Evaporating coil with pre-coated fins
FT/M	Soft bag filters efficiency M6-F7-F8
FT/R	Rigid bag filters efficiency M6-F7-F8
FT/E	Electrostatic filters
AT	Constant air flow regulation control
AT/P	Constant available static pressure regulation control
WS2	Hot water coil with 3-Way valve
EHG	Electrical heater with step regulation
SQ	Air quality sensor
SSA	Active sanitation systems
PF	Filter differential pressure switch
IS	Modbus RTU protocol, RS485 serial interface
IST	Modbus TCP/IP protocol, Ethernet port
ISB	BACnet MSTP protocol, RS485 serial interface
ISBT	BACnet TCP/IP protocol, Ethernet port
ISL	LonWorks protocol, FTT-10 serial interface
ISS	SNMP protocol, Ethernet port
CP	Potential free contacts
RP	Coils protection metallic guards

LOOSE ACCESSORIES:

MN	High and low pressure gauges
CR	Remote control panel
AG	Rubber shock absorbers

TECHNICAL DATA - URT/EC/MS 051÷212 S/IK

MODEL			051	061	071	081	091	101	111	131	152	172	212
Cooling	Cooling capacity (1)	kW	57.9	65.8	77.6	87.4	98.6	113	129	145	168	198	252
	Absorbed power (1),(2)	kW	19.4	21.8	24.6	26.2	30.8	37.8	40.4	43.3	54.6	61.5	85.1
Cooling (EN14511)	SEER (3)		4.57	4.61	4.78	4.81	4.69	4.53	4.52	4.66	4.42	4.29	4.31
	Energy Efficiency (3)	%	180	181	188	189	185	178	178	183	174	169	169
Heating	Heating capacity (4)	kW	60.2	67.2	76.8	88.6	101	115	133	151	173	204	262
	Absorbed power (2),(4)	kW	16.8	17.9	20.2	22.8	25.2	32.2	34.0	40.0	45.7	50.4	70.5
Heating (EN14511)	SCOP (5)		3.46	3.51	3.62	3.60	3.57	3.40	3.44	3.52	3.56	3.55	3.47
	Energy Efficiency (5)	%	135	137	142	141	140	133	135	138	139	139	136
Air treatment section	Air flow	m³/s	2.67	3.30	4.05	4.05	4.84	5.49	6.32	6.32	8.20	9.79	12.31
	Available static pressure	Pa	250	250	250	250	250	250	250	250	250	250	250
	Fan	n°	1	1	2	2	2	2	2	2	2	4	4
	Filter	Tipo	G4	G4	G4	G4	G4	G4	G4	G4	G4	G4	G4
Condensing section	Compressor	n°	2	2	2	2	2	2	2	2	4	4	4
	Refrigerant circuits	n°	1	1	1	1	1	1	1	1	2	2	2
	Capacity steps	n°	Stepless						Stepless				
Hot water coil	Heating capacity (6)	kW	85	100	125	125	150	175	200	200	250	300	350
	Air pressure drops	Pa	30	31	31	31	31	30	36	36	35	35	57
	Water flow (6)	l/s	2.03	2.39	2.99	2.99	3.58	4.18	4.78	4.78	5.97	7.17	8.36
	Water pressure drops	kPa	45	47	48	48	49	44	51	51	53	57	45
	Water connections	"G	1"½	1"½	1"½	1"½	1"½	2"	2"	2"	2"	2 ½"	2 ½"
Electrical heater	Power supply	V/Ph/Hz	400/3/50						400/3/50				
	Heating capacity	kW	15	21	27	27	27	41	41	41	41	48	55
	Max. absorbed current	A	22	30	39	39	39	59	59	59	59	69	79
	Steps	n°	2	2	2	2	2	4	4	4	4	4	4
Electrical characteristics	Power supply	V/Ph/Hz	400/3/50						400/3/50				
	Max. running current	A	46	47	56	60	69	88	93	102	126	148	170
	Max. starting current	A	169	169	179	192	236	212	225	269	258	315	344
Sound pressure (7)		dB(A)	57	57	57	57	57	58	59	59	60	60	61
Weights	Transport weight	Kg	1070	1135	1245	1340	1360	1560	1940	1990	2300	2520	3465
	Operating weight	Kg	1055	1120	1225	1320	1340	1540	1920	1970	2280	2500	3435

COMPLEMENTARY SECTIONS

UM Section with preparation for Humidifier
UM/EN Section Humidifier with electrodes immersed
F/CD Condensation endothermic hot air generator with modulating gas burner

MIXING BOX

MS. Further to components of the basic section, includes two wing profile aluminium dampers with spring return servomotors; the opposite movement is ensured by transmission of nylon gear.

DIMENSIONS

MODEL			051	061	071	081	091	101	111	131	152	172	212
L	STD	mm	3430	3530	3640	3640	3740	4220	4950	4950	5600	5750	7850
W	STD	mm	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200
H	STD	mm	2100	2340	2340	2340	2340	2340	2340	2340	2340	2510	2510

CLEARANCE AREA

URT/EC/MS 051÷101 S/IK

800 | 1700 | 800 | 1700

URT/EC/MS 111÷212 S/IK

1000 | 1700 | 1000 | 1700

Electrical board side

NOTES

1. Evaporator inlet air temperature 27 °C d.b./19 °C w.b.; ambient air temperature 35 °C.
2. Excluded the power absorbed by fans of air treatment section.
3. Seasonal energy efficiency of cooling. According to EU Regulation n. 2016/2281.
4. Condenser inlet air temperature 20 °C, ambient air temperature 7 °C d.b./6 °C w.b.
5. Seasonal energy efficiency of heating with average climatic conditions. According to EU Regulation n. 2016/2281.
6. Inlet air temperature 20 °C, water temperature 70/60 °C.
7. Sound pressure level measured in free field conditions at 1 m from the unit. According to ISO 3744.

N.B. Weights of WP version are specified on technical brochure.

URT/EC/ECO 051÷212 S/IK

DOUBLE SKIN PACKAGED ROOF TOP UNITS WITH INVERTER SCROLL COMPRESSORS, EC INVERTER PLUG-FANS AND ECONOMIZER.

The double skin packaged Roof Top units of the **AIRMAXI** series are the ideal solution for air conditioning of wide surfaces such as shopping malls and restaurants, canteens or for industrial areas. These units feature Inverter Scroll compressor with R410A refrigerant and **EC Inverter Plug-Fans.** The highest efficiency at partial loads is guaranteed by the Inverter Scroll technology on compressor since its power is varied proportionally to the requested thermal load. Furthermore, the EC Inverter Plug-Fans with high energy efficiency backward blades are managed by an electronic control adjusting fans' rotational speed to adapt the air flow to the system capacity.
Equipped with extruded aluminium alloy sections and 50mm-thick sandwich panelling, these units are available in Cooling only and Reversible Heat Pump version.
The flat or pocket filters help to keep the air quality at a suitable level in order to guarantee appropriate hygiene standards.
The ECO units have an high level of modularity and adaptability to every plant-engineering need: these units feature, in addition to the basic sections, an **ECONOMIZER** automatically controlled both in FREE-COOLING or FREE-HEATING.
The unit can be equipped, as an option, with the innovative **Thermodynamic Coil-Boost Heat Recovery** to achieve better performance and efficiency both in cooling and heating up to 15%.

FROM 58 KW TO 252 KW.

The units are compliant to the ErP Regulation.

VERSION

URT/EC/ECO
Cooling only with EC Inverter Plug-Fans and Economizer

URT/EC/WP/ECO
Reversible Heat Pump with EC Inverter Plug-Fans and Economizer

FEATURES

- Structure of base perimeter made of steel sheet elements galvanised. Frame made of extruded aluminium alloy profiles connected by 3 way joints. Assembling of the base to the frame is of dual support and grants the walking on the base panels installation without sticking out screws. 50mm thick sandwich panels made of prepainted steel sheet; water proofing granted by gaskets having shape memory for perfect seal up even after repeated removals. Section connection is effected by means of assembling conic stirrups and water proofing is granted by gaskets.
- DC INVERTER Scroll and ON-OFF Scroll compressors with oil sight glass, internal overheat protection and crankcase heater.
- Condenser and evaporator with copper tube and aluminium finned coil.
- High efficiency delivery & intake reverse blade EC INVERTER PLUG-FANS, with electronic speed control to easily adapt to the system characteristics.
- Electronic expansion valve.
- R410A refrigerant.
- Electrical board includes: door interlocking isolator, fuses, thermal protection relays on compressors, thermocontacts for the fans of the condensing section and contactors for the fan motors of the air handling section.
- Electronic proportional device to decrease the sound level, with a continuous regulation of the fan speed. This device also allows the cooling functioning of the unit by external temperature till -20°C.
- Microprocessor for the automatic control of the unit.

ACCESSORIES

FACTORY FITTED ACCESSORIES:

IM	Automatic circuit breakers
SL	Unit silencement
THCB	Thermodynamic Coil-Boost Heat Recovery (ECO only)
RFM	Cooling circuit shut-off valve on discharge line
RFL	Cooling circuit shut-off valve on liquid line
ECA	EC Inverter fans on condensing section
TXC	Condensing coil with pre-coated fins
TXE	Evaporating coil with pre-coated fins
FT/M	Soft bag filters efficiency M6-F7-F8
FT/R	Rigid bag filters efficiency M6-F7-F8
FT/E	Electrostatic filters
AT	Constant air flow regulation control
AT/P	Constant available static pressure regulation control
WS2	Hot water coil with 3-Way valve
EHG	Electrical heater with step regulation
CH	Enthalpic control (ECO only)
SQ	Air quality sensor
SSA	Active sanitation systems
PF	Filter differential pressure switch
IS	Modbus RTU protocol, RS485 serial interface
IST	Modbus TCP/IP protocol, Ethernet port
ISB	BACnet MSTP protocol, RS485 serial interface
ISBT	BACnet TCP/IP protocol, Ethernet port
ISL	LonWorks protocol, FTT-10 serial interface
ISS	SNMP protocol, Ethernet port
CP	Potential free contacts
RP	Coils protection metallic guards

LOOSE ACCESSORIES:

MN	High and low pressure gauges
CR	Remote control panel
AG	Rubber shock absorbers

ErP SEER 2021 ErP SCOP

TECHNICAL DATA - URT/EC/ECO 051÷212 S/IK

MODEL			051	061	071	081	091	101	111	131	152	172	212
Cooling	Cooling capacity (1)	kW	57.9	65.8	77.6	87.4	98.6	113	129	145	168	198	252
	Absorbed power (1),(2)	kW	19.4	21.8	24.6	26.2	30.8	37.8	40.4	43.3	54.6	61.5	85.1
Cooling (EN14511)	SEER (3)		4.57	4.61	4.78	4.81	4.69	4.53	4.52	4.66	4.42	4.29	4.31
	Energy Efficiency (3)	%	180	181	188	189	185	178	178	183	174	169	169
Heating	Heating capacity (4)	kW	60.2	67.2	76.8	88.6	101	115	133	151	173	204	262
	Absorbed power (2),(4)	kW	16.8	17.9	20.2	22.8	25.2	32.2	34.0	40.0	45.7	50.4	70.5
Heating (EN14511)	SCOP (5)		3.46	3.51	3.62	3.60	3.57	3.40	3.44	3.52	3.56	3.55	3.47
	Energy Efficiency (5)	%	135	137	142	141	140	133	135	138	139	139	136
Air treatment section	Air flow	m³/s	2.67	3.30	4.05	4.05	4.84	5.49	6.32	6.32	8.20	9.79	12.31
	Available static pressure	Pa	250	250	250	250	250	250	250	250	250	250	250
	Fan	n°	1	1	2	2	2	2	2	2	2	4	4
	Filter	Tipo	G4	G4	G4	G4	G4	G4	G4	G4	G4	G4	G4
Air intake section	Air flow	m³/s	2.67	3.30	4.05	4.05	4.84	5.49	6.32	6.32	8.20	9.79	12.31
	Available static pressure	Pa	100	100	100	100	100	100	100	100	100	100	100
	Fan	n°	1	1	2	2	2	2	2	2	2	4	4
Condensing section	Compressor	n°	2	2	2	2	2	2	2	2	4	4	4
	Refrigerant circuits	n°	1	1	1	1	1	1	1	1	2	2	2
	Capacity steps	n°	Stepless						Stepless				
Hot water coil	Heating capacity (6)	kW	85	100	125	125	150	175	200	200	250	300	350
	Air pressure drops	Pa	30	31	31	31	31	30	36	36	35	35	57
	Water flow (6)	l/s	2.03	2.39	2.99	2.99	3.58	4.18	4.78	4.78	5.97	7.17	8.36
	Water pressure drops	kPa	45	47	48	48	49	44	51	51	53	57	45
	Water connections	"G	1"½	1"½	1"½	1"½	1"½	2"	2"	2"	2"	2 ½"	2 ½"
Electrical heater	Power supply	V/Ph/Hz	400/3/50						400/3/50				
	Heating capacity	kW	15	21	27	27	27	41	41	41	41	48	55
	Max. absorbed current	A	22	30	39	39	39	59	59	59	59	69	79
	Steps	n°	2	2	2	2	2	4	4	4	4	4	4
Electrical characteristics	Power supply	V/Ph/Hz	400/3/50						400/3/50				
	Max. running current	A	46	47	56	60	69	88	93	102	126	148	170
	Max. starting current	A	169	169	179	192	236	212	225	269	258	315	344
Sound pressure (7)		dB(A)	57	57	57	57	57	58	59	59	60	60	61
Weights	Transport weight	Kg	1500	1610	1740	1840	1860	2000	2400	2450	3020	3370	4190
	Operating weight	Kg	1480	1590	1720	1820	1840	1975	2375	2425	2990	3335	4150

COMPLEMENTARY SECTIONS

UM	Section with preparation for Humidifier
UM/EN	Section Humidifier with electrodes immersed
F/CD	Condensation endothermic hot air generator with modulating gas burner

ECONOMIZER

ECO. Further to components of the basic section, includes: return air fan with electrical motor, complete of adjustable transmission, mounted on elastic supports; motorized wing profile aluminium dampers, the opposite movement is ensured by transmission of nylon gear. Exhaust, recirculation and fresh air are controlled through the microprocessor fitted in the base unit; this microprocessor, according to the temperature of the return and fresh air, modulates the opening of the dampers and controls the cooling circuit capacity steps to ensure comfort conditions of the handled air. The adjustments of the ECO versions are automatically controlled both in free-cooling and free-heating mode.

DIMENSIONS

MODEL			051	061	071	081	091	101	111	131	152	172	212
L	STD	mm	5260	5480	5570	5570	5650	6170	6900	6900	8080	8470	11020
W	STD	mm	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200
H	STD	mm	2100	2340	2340	2340	2340	2340	2340	2340	2340	2510	2510

CLEARANCE AREA

URT/EC/ECO 051÷101 S/IK

800 | 1700 | 800 | 1700

URT/EC/ECO 111÷212 S/IK

1000 | 1700 | 1000 | 1700

Electrical board side

NOTES

1. Evaporator inlet air temperature 27 °C d.b./19 °C w.b.; ambient air temperature 35 °C.
2. Excluded the power absorbed by fans of air treatment section.
3. Seasonal energy efficiency of cooling. According to EU Regulation n. 2016/2281.
4. Condenser inlet air temperature 20 °C, ambient air temperature 7 °C d.b./6 °C w.b.
5. Seasonal energy efficiency of heating with average climatic conditions. According to EU Regulation n. 2016/2281.
6. Inlet air temperature 20 °C, water temperature 70/60 °C.
7. Sound pressure level measured in free field conditions at 1 m from the unit. According to ISO 3744.

N.B. Weights of WP version are specified on technical brochure.

URT/EC/ECO/REC-FX 051÷212 S/IK

DOUBLE SKIN PACKAGED ROOF TOP UNITS WITH INVERTER SCROLL COMPRESSORS, EC INVERTER PLUG-FANS, ECONOMIZER AND CROSS-FLOW HEAT RECOVERY.

The double skin packaged Roof Top units of the **AIRMAXI** series are the ideal solution for air conditioning of wide surfaces such as shopping malls and restaurants, canteens or for industrial areas. These units feature Inverter Scroll compressor with R410A refrigerant and **EC Inverter Plug-Fans.** The highest efficiency at partial loads is guaranteed by the Inverter Scroll technology on compressor since its power is varied proportionally to the requested thermal load. Furthermore, the EC Inverter Plug-Fans with high energy efficiency backward blades are managed by an electronic control adjusting fans' rotational speed to adapt the air flow to the system capacity.
Equipped with extruded aluminium alloy sections and 50mm-thick sandwich panelling, these units are available in Cooling only and Reversible Heat Pump version.
The flat or pocket filters help to keep the air quality at a suitable level in order to guarantee appropriate hygiene standards.
The ECO/REC-FX units have an high level of modularity and adaptability to every plant-engineering need: these units feature, in addition to the basic sections, an **ECONOMIZER** automatically controlled both in FREE-COOLING or FREE-HEATING and a **CROSS-FLOW HEAT RECOVERY.**

The units are compliant to the ErP Regulation.

FROM 58 KW TO 252 KW.

VERSION

URT/EC/ECO/REC-FX
Cooling only with EC Inverter Plug-Fans, Economizer and Cross-flow Heat Recovery

URT/EC/WP/ECO/REC-FX
Reversible Heat Pump with EC Inverter Plug-Fans, Economizer and Cross-flow Heat Recovery

FEATURES

- Structure of base perimeter made of steel sheet elements galvanised. Frame made of extruded aluminium alloy profiles connected by 3 way joints. Assembling of the base to the frame is of dual support and grants the walking on the base panels installation without sticking out screws. 50mm thick sandwich panels made of prepainted steel sheet; water proofing granted by gaskets having shape memory for perfect seal up even after repeated removals. Section connection is effected by means of assembling conic stirrups and water proofing is granted by gaskets.
- DC INVERTER Scroll and ON-OFF Scroll compressors with oil sight glass, internal overheat protection and crankcase heater.
- Condenser and evaporator with copper tube and aluminium finned coil.
- High efficiency delivery & intake reverse blade EC INVERTER PLUG-FANS, with electronic speed control to easily adapt to the system characteristics.
- Electronic expansion valve.
- R410A refrigerant.
- Electrical board includes: door interlocking isolator, fuses, thermal protection relays on compressors, thermocontacts for the fans of the condensing section and contactors for the fan motors of the air handling section.
- Electronic proportional device to decrease the sound level, with a continuous regulation of the fan speed. This device also allows the cooling functioning of the unit by external temperature till -20°C.
- Microprocessor for the automatic control of the unit.

ACCESSORIES

FACTORY FITTED ACCESSORIES:

IM	Automatic circuit breakers
SL	Unit silencement
RFM	Cooling circuit shut-off valve on discharge line
RFL	Cooling circuit shut-off valve on liquid line
ECA	EC Inverter fans on condensing section
TXC	Condensing coil with pre-coated fins
TXE	Evaporating coil with pre-coated fins
FT/M	Soft bag filters efficiency M6-F7-F8
FT/R	Rigid bag filters efficiency M6-F7-F8
FT/E	Electrostatic filters
AT	Constant air flow regulation control
AT/P	Constant available static pressure regulation control
WS2	Hot water coil with 3-Way valve
EHG	Electrical heater with step regulation
CH	Enthalpic control (ECO only)
SQ	Air quality sensor
SSA	Active sanitation systems
PF	Filter differential pressure switch
IS	Modbus RTU protocol, RS485 serial interface
IST	Modbus TCP/IP protocol, Ethernet port
ISB	BACnet MSTP protocol, RS485 serial interface
ISBT	BACnet TCP/IP protocol, Ethernet port
ISL	LonWorks protocol, FTT-10 serial interface
ISS	SNMP protocol, Ethernet port
CP	Potential free contacts
RP	Coils protection metallic guards

LOOSE ACCESSORIES:

MN	High and low pressure gauges
CR	Remote control panel
AG	Rubber shock absorbers

TECHNICAL DATA - URT/EC/ECO/REC-FX 051÷212 S/IK

MODEL			051	061	071	081	091	101	111	131	152	172	212
Cooling	Cooling capacity (1)	kW	57.9	65.8	77.6	87.4	98.6	113	129	145	168	198	252
	Absorbed power (1),(2)	kW	19.4	21.8	24.6	26.2	30.8	37.8	40.4	43.3	54.6	61.5	85.1
Cooling (EN14511)	SEER (3)		4.57	4.61	4.78	4.81	4.69	4.53	4.52	4.66	4.42	4.29	4.31
	Energy Efficiency (3)	%	180	181	188	189	185	178	178	183	174	169	169
Heating	Heating capacity (4)	kW	60.2	67.2	76.8	88.6	101	115	133	151	173	204	262
	Absorbed power (2),(4)	kW	16.8	17.9	20.2	22.8	25.2	32.2	34.0	40.0	45.7	50.4	70.5
Heating (EN14511)	SCOP (5)		3.46	3.51	3.62	3.60	3.57	3.40	3.44	3.52	3.56	3.55	3.47
	Energy Efficiency (5)	%	135	137	142	141	140	133	135	138	139	139	136
Air treatment section	Air flow	m³/s	2.67	3.30	4.05	4.05	4.84	5.49	6.32	6.32	8.20	9.79	12.31
	Available static pressure	Pa	250	250	250	250	250	250	250	250	250	250	250
	Fan	n°	1	1	2	2	2	2	2	2	2	4	4
	Filter	Tipo	G4	G4	G4	G4	G4	G4	G4	G4	G4	G4	G4
Air intake section	Air flow	m³/s	2.67	3.30	4.05	4.05	4.84	5.49	6.32	6.32	8.20	9.79	12.31
	Available static pressure	Pa	100	100	100	100	100	100	100	100	100	100	100
	Fan	n°	1	1	2	2	2	2	2	2	2	4	4
Condensing section	Compressor	n°	2	2	2	2	2	2	2	2	4	4	4
	Refrigerant circuits	n°	1	1	1	1	1	1	1	1	2	2	2
	Capacity steps	n°	Stepless						Stepless				
Hot water coil	Heating capacity (6)	kW	85	100	125	125	150	175	200	200	250	300	350
	Air pressure drops	Pa	30	31	31	31	31	30	36	36	35	35	57
	Water flow (6)	l/s	2.03	2.39	2.99	2.99	3.58	4.18	4.78	4.78	5.97	7.17	8.36
	Water pressure drops	kPa	45	47	48	48	49	44	51	51	53	57	45
	Water connections	"G	1"½	1"½	1"½	1"½	1"½	2"	2"	2"	2"	2 ½"	2 ½"
Electrical heater	Power supply	V/Ph/Hz	400/3/50						400/3/50				
	Heating capacity	kW	15	21	27	27	27	41	41	41	41	48	55
	Max. absorbed current	A	22	30	39	39	39	59	59	59	59	69	79
	Steps	n°	2	2	2	2	2	4	4	4	4	4	4
Electrical characteristics	Power supply	V/Ph/Hz	400/3/50						400/3/50				
	Max. running current	A	46	47	56	60	69	88	93	102	126	148	170
	Max. starting current	A	169	169	179	192	236	212	225	269	258	315	344
Sound pressure (7)		dB(A)	57	57	57	57	57	58	59	59	60	60	61
Weights	Transport weight	Kg	1645	1720	1910	2020	2040	2210	2640	2690	3260	3590	4390
	Operating weight	Kg	1620	1695	1885	1995	2015	2185	2610	2660	3225	3555	4350

COMPLEMENTARY SECTIONS

UM Section with preparation for Humidifier
UM/EN Section Humidifier with electrodes immersed
F/CD Condensation endothermic hot air generator with modulating gas burner

ECONOMIZER AND CROSS-FLOW HEAT RECOVERY

ECO/REC-FX. Further to the components of the ECO section, it includes: static recovery device made of aluminium with moisture drain pan, flat filters inspectable through hinged door and dampers with return spring servomotors (fresh air damper + air recirculation damper + exhaust air damper + 2 Free-Cooling dampers). Also the adjustment of this section is included into the unit control.

DIMENSIONS

MODEL			051	061	071	081	091	101	111	131	152	172	212
L	STD	mm	6060	6060	6270	6270	6450	7050	7870	7870	9120	9380	11650
W	STD	mm	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200
H	STD	mm	2100	2340	2340	2340	2340	2340	2340	2340	2340	2510	2510

CLEARANCE AREA

URT/EC/ECO/REC-FX 051÷101 S/IK

800 | 1700 | 800 | 1700

URT/EC/ECO/REC-FX 111÷212 S/IK

1000 | 1700 | 1000 | 1700

Electrical board side

NOTES

1. Evaporator inlet air temperature 27 °C d.b./19 °C w.b.; ambient air temperature 35 °C.
2. Excluded the power absorbed by fans of air treatment section.
3. Seasonal energy efficiency of cooling. According to EU Regulation n. 2016/2281.
4. Condenser inlet air temperature 20 °C, ambient air temperature 7 °C d.b./6 °C w.b.
5. Seasonal energy efficiency of heating with average climatic conditions. According to EU Regulation n. 2016/2281.
6. Inlet air temperature 20 °C, water temperature 70/60 °C.
7. Sound pressure level measured in free field conditions at 1 m from the unit. According to ISO 3744.

N.B. Weights of WP version are specified on technical brochure.

URT/EC/ECO/REC-WH 051÷212 S/IK

DOUBLE SKIN PACKAGED ROOF TOP UNITS WITH INVERTER SCROLL COMPRESSORS, EC INVERTER PLUG-FANS, ECONOMIZER AND WHEEL HEAT RECOVERY.

The double skin packaged Roof Top units of the **AIRMAXI** series are the ideal solution for air conditioning of wide surfaces such as shopping malls and restaurants, canteens or for industrial areas. These units feature Inverter Scroll compressor with R410A refrigerant and **EC Inverter Plug-Fans.** The highest efficiency at partial loads is guaranteed by the Inverter Scroll technology on compressor since its power is varied proportionally to the requested thermal load. Furthermore, the EC Inverter Plug-Fans with high energy efficiency backward blades are managed by an electronic control adjusting fans' rotational speed to adapt the air flow to the system capacity.
Equipped with extruded aluminium alloy sections and 50mm-thick sandwich panelling, these units are available in Cooling only and Reversible Heat Pump version.
The flat or pocket filters help to keep the air quality at a suitable level in order to guarantee appropriate hygiene standards.
The ECO/REC-WH units have an high level of modularity and adaptability to every plant-engineering need: these units feature, in addition to the basic sections, an **ECONOMIZER** automatically controlled both in FREE-COOLING or FREE-HEATING and a **WHEEL HEAT RECOVERY,** able to treat up to 100% of total air flow.

The units are compliant to the ErP Regulation.

FROM 58 KW TO 252 KW.

VERSION

URT/EC/ECO/REC-WH
Cooling only with EC Inverter Plug-Fans, Economizer and Wheel Heat Recovery

URT/EC/WP/ECO/REC-WH
Reversible Heat Pump with EC Inverter Plug-Fans, Economizer and Wheel Heat Recovery

FEATURES

- Structure of base perimeter made of steel sheet elements galvanised. Frame made of extruded aluminium alloy profiles connected by 3 way joints. Assembling of the base to the frame is of dual support and grants the walking on the base panels installation without sticking out screws. 50mm thick sandwich panels made of prepainted steel sheet; water proofing granted by gaskets having shape memory for perfect seal up even after repeated removals. Section connection is effected by means of assembling conic stirrups and water proofing is granted by gaskets.
- DC INVERTER Scroll and ON-OFF Scroll compressors with oil sight glass, internal overheat protection and crankcase heater.
- Condenser and evaporator with copper tube and aluminium finned coil.
- High efficiency delivery & intake reverse blade EC INVERTER PLUG-FANS, with electronic speed control to easily adapt to the system characteristics.
- Electronic expansion valve.
- R410A refrigerant.
- Electrical board includes: door interlocking isolator, fuses, thermal protection relays on compressors, thermocontacts for the fans of the condensing section and contactors for the fan motors of the air handling section.
- Electronic proportional device to decrease the sound level, with a continuous regulation of the fan speed. This device also allows the cooling functioning of the unit by external temperature till -20°C.
- Microprocessor for the automatic control of the unit.

ACCESSORIES

FACTORY FITTED ACCESSORIES:

IM	Automatic circuit breakers
SL	Unit silencement
RFM	Cooling circuit shut-off valve on discharge line
RFL	Cooling circuit shut-off valve on liquid line
ECA	EC Inverter fans on condensing section
TXC	Condensing coil with pre-coated fins
TXE	Evaporating coil with pre-coated fins
FT/M	Soft bag filters efficiency M6-F7-F8
FT/R	Rigid bag filters efficiency M6-F7-F8
FT/E	Electrostatic filters
AT	Constant air flow regulation control
AT/P	Constant available static pressure regulation control
WS2	Hot water coil with 3-Way valve
EHG	Electrical heater with step regulation
CH	Enthalpic control (ECO only)
SQ	Air quality sensor
SSA	Active sanitation systems
PF	Filter differential pressure switch
IS	Modbus RTU protocol, RS485 serial interface
IST	Modbus TCP/IP protocol, Ethernet port
ISB	BACnet MSTP protocol, RS485 serial interface
ISBT	BACnet TCP/IP protocol, Ethernet port
ISL	LonWorks protocol, FTT-10 serial interface
ISS	SNMP protocol, Ethernet port
CP	Potential free contacts
RP	Coils protection metallic guards

LOOSE ACCESSORIES:

MN	High and low pressure gauges
CR	Remote control panel
AG	Rubber shock absorbers

ErP SEER 2021 ErP SCOP

TECHNICAL DATA - URT/EC/ECO/REC-WH 051÷212 S/IK

MODEL			051	061	071	081	091	101	111	131	152	172	212
Cooling	Cooling capacity (1)	kW	57.9	65.8	77.6	87.4	98.6	113	129	145	168	198	252
	Absorbed power (1),(2)	kW	19.4	21.8	24.6	26.2	30.8	37.8	40.4	43.3	54.6	61.5	85.1
Cooling (EN14511)	SEER (3)		4.57	4.61	4.78	4.81	4.69	4.53	4.52	4.66	4.42	4.29	4.31
	Energy Efficiency (3)	%	180	181	188	189	185	178	178	183	174	169	169
Heating	Heating capacity (4)	kW	60.2	67.2	76.8	88.6	101	115	133	151	173	204	262
	Absorbed power (2),(4)	kW	16.8	17.9	20.2	22.8	25.2	32.2	34.0	40.0	45.7	50.4	70.5
Heating (EN14511)	SCOP (5)		3.46	3.51	3.62	3.60	3.57	3.40	3.44	3.52	3.56	3.55	3.47
	Energy Efficiency (5)	%	135	137	142	141	140	133	135	138	139	139	136
Air treatment section	Air flow	m³/s	2.67	3.30	4.05	4.05	4.84	5.49	6.32	6.32	8.20	9.79	12.31
	Available static pressure	Pa	250	250	250	250	250	250	250	250	250	250	250
	Fan	n°	1	1	2	2	2	2	2	2	2	4	4
	Filter	Tipo	G4	G4	G4	G4	G4	G4	G4	G4	G4	G4	G4
Air intake section	Air flow	m³/s	2.67	3.30	4.05	4.05	4.84	5.49	6.32	6.32	8.20	9.79	12.31
	Available static pressure	Pa	100	100	100	100	100	100	100	100	100	100	100
	Fan	n°	1	1	2	2	2	2	2	2	2	4	4
Condensing section	Compressor	n°	2	2	2	2	2	2	2	2	4	4	4
	Refrigerant circuits	n°	1	1	1	1	1	1	1	1	2	2	2
	Capacity steps	n°	Stepless						Stepless				
Hot water coil	Heating capacity (6)	kW	85	100	125	125	150	175	200	200	250	300	350
	Air pressure drops	Pa	30	31	31	31	31	30	36	36	35	35	57
	Water flow (6)	l/s	2.03	2.39	2.99	2.99	3.58	4.18	4.78	4.78	5.97	7.17	8.36
	Water pressure drops	kPa	45	47	48	48	49	44	51	51	53	57	45
	Water connections	"G	1"½	1"½	1"½	1"½	1"½	2"	2"	2"	2"	2 ½"	2 ½"
Electrical heater	Power supply	V/Ph/Hz	400/3/50						400/3/50				
	Heating capacity	kW	15	21	27	27	27	41	41	41	41	48	55
	Max. absorbed current	A	22	30	39	39	39	59	59	59	59	69	79
	Steps	n°	2	2	2	2	2	4	4	4	4	4	4
Electrical characteristics	Power supply	V/Ph/Hz	400/3/50						400/3/50				
	Max. running current	A	46	47	56	60	69	88	93	102	126	148	170
	Max. starting current	A	169	169	179	192	236	212	225	269	258	315	344
Sound pressure (7)		dB(A)	57	57	57	57	57	58	59	59	60	60	61
Weights	Transport weight	Kg	1645	1720	1910	2020	2040	2210	2640	2690	3260	3590	4390
	Operating weight	Kg	1620	1695	1885	1995	2015	2185	2610	2660	3225	3555	4350

COMPLEMENTARY SECTIONS

UM Section with preparation for Humidifier
UM/EN Section Humidifier with electrodes immersed
F/CD Condensation endothermic hot air generator with modulating gas burner

ECONOMIZER AND WHEEL HEAT RECOVERY

ECO/REC-WH. Further to the components of the ECO section, includes: high efficiency wheel-type heat recovery device made of aluminium with hygroscopic treatment, managed by a constant-speed electric motor, with moisture drain pan and dampers with spring return (fresh air damper + air recirculation damper + exhaust air damper). Also the adjustment of this section is included into the unit control.

DIMENSIONS

MODEL			051	061	071	081	091	101	111	131	152	172	212
L	STD	mm	6060	6060	6270	6270	6450	7050	7870	7870	9120	9380	11650
W	STD	mm	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200
H	STD	mm	2100	2340	2340	2340	2340	2340	2340	2340	2340	2510	2510

CLEARANCE AREA

URT/EC/ECO/REC-WH 051÷101 S/IK

800 | 1700 | 800 | 1700

URT/EC/ECO/REC-WH 111÷212 S/IK

1000 | 1700 | 1000 | 1700

Electrical board side

NOTES

1. Evaporator inlet air temperature 27 °C d.b./19 °C w.b.; ambient air temperature 35 °C.
2. Excluded the power absorbed by fans of air treatment section.
3. Seasonal energy efficiency of cooling. According to EU Regulation n. 2016/2281.
4. Condenser inlet air temperature 20 °C, ambient air temperature 7 °C d.b./6 °C w.b.
5. Seasonal energy efficiency of heating with average climatic conditions. According to EU Regulation n. 2016/2281.
6. Inlet air temperature 20 °C, water temperature 70/60 °C.
7. Sound pressure level measured in free field conditions at 1 m from the unit. According to ISO 3744.

N.B. Weights of WP version are specified on technical brochure.

URT/EC 051÷212 S/K

DOUBLE SKIN PACKAGED ROOF TOP UNITS WITH SCROLL COMPRESSORS AND EC INVERTER PLUG-FANS.

The packaged Roof Top air conditioning units of the **AIRMAXI** series are ideal for the air conditioning of large surface areas for public use such as halls, shopping centres, cafeterias, restaurants and health centres, or for industrial environments such as food processing or preservation centres. These units feature Scroll compressors with R410A refrigerant and **EC Inverter Plug-Fans.** The **EC Inverter Plug-Fans** with high energy efficiency backward blades both for intake as well as delivery are managed by an electronic control adjusting fans' rotational speed to adapt the air flow to the system capacity.
Equipped with extruded aluminium alloy sections and 50mm-thick sandwich panelling, these units are available in Cooling only and Reversible Heat Pump version.
The flat or pocket filters help to keep the air quality at a suitable level in order to guarantee appropriate hygiene standards.

The units are compliant to the ErP Regulation.

FROM 58 KW TO 252 KW.

VERSION

URT/EC
Cooling only with EC Inverter Plug-Fans
URT/EC/WP
Reversible Heat Pump with EC Inverter Plug-Fans

FEATURES

- Structure of base perimeter made of steel sheet elements galvanised. Frame made of extruded aluminium alloy profiles connected by 3 way joints. Assembling of the base to the frame is of dual support and grants the walking on the base panels installation without sticking out screws. 50mm thick sandwich panels made of prepainted steel sheet; water proofing granted by gaskets having shape memory for perfect seal up even after repeated removals. Section connection is effected by means of assembling conic stirrups and water proofing is granted by gaskets.
- Scroll compressors with oil sight glass, internal overheat protection and crankcase heater.
- Condenser and evaporator with copper tube and aluminium finned coil.
- High efficiency delivery reverse blade EC INVERTER PLUG-FANS, with electronic speed control to easily adapt to the system characteristics.
- R410A refrigerant.
- Electrical board includes: door interlocking isolator, fuses, thermal protection relays on compressors, thermocontacts for the fans of the condensing section and contactors for the fan motors of the air handling section.
- Microprocessor for the automatic control of the unit.

ACCESSORIES

FACTORY FITTED ACCESSORIES:

IM	Automatic circuit breakers
SL	Unit silencement
RFM	Cooling circuit shut-off valve on discharge line
RFL	Cooling circuit shut-off valve on liquid line
CT	Condensing control down to 0 °C
CC	Condensing control down to -20 °C
ECA	EC Inverter fans on condensing section
TXC	Condensing coil with pre-coated fins
TXE	Evaporating coil with pre-coated fins
FT/M	Soft bag filters efficiency M6-F7-F8
FT/R	Rigid bag filters efficiency M6-F7-F8
FT/E	Electrostatic filters
AT	Constant air flow regulation control
AT/P	Constant available static pressure regulation control
WS2	Hot water coil with 3-Way valve
EHG	Electrical heater with step regulation
SQ	Air quality sensor
SSA	Active sanitation systems
PF	Filter differential pressure switch
IS	Modbus RTU protocol, RS485 serial interface
IST	Modbus TCP/IP protocol, Ethernet port
ISB	BACnet MSTP protocol, RS485 serial interface
ISBT	BACnet TCP/IP protocol, Ethernet port
ISL	LonWorks protocol, FTT-10 serial interface
ISS	SNMP protocol, Ethernet port
CP	Potential free contacts
RP	Coils protection metallic guards

LOOSE ACCESSORIES:

MN	High and low pressure gauges
CR	Remote control panel
AG	Rubber shock absorbers

ErP SEER 2021 ErP SCOP

TECHNICAL DATA - URT/EC 051÷212 S/K

MODEL			051	061	071	081	091	101	111	131	152	172	212
Cooling	Cooling capacity (1)	kW	57.9	65.8	77.6	87.4	98.6	113	129	145	168	198	252
	Absorbed power (1),(2)	kW	19.4	21.8	24.6	26.2	30.8	37.8	40.4	43.3	54.6	61.5	85.1
Cooling (EN14511)	SEER (3)		3.65	3.68	3.86	3.82	3.90	3.84	3.71	3.81	3.88	3.76	3.78
	Energy Efficiency (3)	%	143	144	151	150	153	151	145	149	152	147	148
Heating	Heating capacity (4)	kW	60.2	67.2	76.8	88.6	101	115	133	151	173	204	262
	Absorbed power (2),(4)	kW	16.8	17.9	20.2	22.8	25.2	32.2	34.0	40.0	45.7	50.4	70.5
Heating (EN14511)	SCOP (5)		3.22	3.23	3.31	3.31	3.26	3.23	3.20	3.29	3.33	3.32	3.24
	Energy Efficiency (5)	%	126	126	129	129	127	126	125	129	130	130	127
Air treatment section (EC version)	Air flow	m³/s	2.67	3.30	4.05	4.05	4.84	5.49	6.32	6.32	8.20	9.79	12.31
	Available static pressure	Pa	250	250	250	250	250	250	250	250	250	250	250
	Fan	n°	1	1	2	2	2	2	2	2	2	4	4
	Filter	Tipo	G4	G4	G4	G4	G4	G4	G4	G4	G4	G4	G4
Condensing section	Compressor	n°	2	2	2	2	2	3	3	3	4	4	4
	Refrigerant circuits	n°	1	1	1	1	1	1	1	1	2	2	2
	Capacity steps	n°			2			3		3		4	
Hot water coil	Heating capacity (6)	kW	85	100	125	125	150	175	200	200	250	300	350
	Air pressure drops	Pa	30	31	31	31	31	30	36	36	35	35	57
	Water flow (6)	l/s	2.03	2.39	2.99	2.99	3.58	4.18	4.78	4.78	5.97	7.17	8.36
	Water pressure drops	kPa	45	47	48	48	49	44	51	51	53	57	45
	Water connections	"G	1"½	1"½	1"½	1"½	1"½	2"	2"	2"	2"	2 ½"	2 ½"
Electrical heater	Power supply	V/Ph/Hz			400/3/50						400/3/50		
	Heating capacity	kW	15	21	27	27	27	41	41	41	41	48	55
	Max. absorbed current	A	22	30	39	39	39	59	59	59	59	69	79
	Steps	n°	2	2	2	2	2	4	4	4	4	4	4
Electrical characteristics (EC version)	Power supply	V/Ph/Hz			400/3/50						400/3/50		
	Max. running current	A	46	47	56	60	69	88	93	102	126	148	170
	Max. starting current	A	169	169	179	192	236	212	225	269	258	315	344
Sound pressure	EC version (7)	dB(A)	57	57	57	57	57	58	59	59	60	60	61
Weights (EC version)	Transport weight	Kg	990	1050	1150	1250	1260	1450	1810	1860	2230	2400	3180
	Operating weight	Kg	975	1035	1135	1235	1245	1430	1790	1840	2210	2380	3150

COMPLEMENTARY SECTIONS

UM Section with preparation for Humidifier
UM/EN Section Humidifier with electrodes immersed
F/CD Condensation endothermic hot air generator with modulating gas burner

DIMENSIONS

MODEL			051	061	071	081	091	101	111	131	152	172	212
L	EC	mm	2980	3080	3190	3190	3290	3770	4500	4500	5150	5300	7370
W	EC	mm	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200
H	EC	mm	2100	2340	2340	2340	2340	2340	2340	2340	2340	2510	2510

CLEARANCE AREA

URT/EC 051÷101 S/K

800 | 1700 | 800 | 1700

URT/EC 111÷212 S/K

1000 | 1700 | 1000 | 1700

Electrical board side

NOTES

1. Evaporator inlet air temperature 27 °C d.b./19 °C w.b.; ambient air temperature 35 °C.
2. Excluded the power absorbed by fans of air treatment section.
3. Seasonal energy efficiency of cooling. According to EU Regulation n. 2016/2281.
4. Condenser inlet air temperature 20 °C, ambient air temperature 7 °C d.b./6 °C w.b.
5. Seasonal energy efficiency of heating with average climatic conditions. According to EU Regulation n. 2016/2281.
6. Inlet air temperature 20 °C, water temperature 70/60 °C.
7. Sound pressure level measured in free field conditions at 1 m from the unit. According to ISO 3744.

N.B. Weights of WP versions are specified on technical brochure.

URT/EC/MS 051÷212 S/K

DOUBLE SKIN PACKAGED ROOF TOP UNITS WITH SCROLL COMPRESSORS, EC INVERTER PLUG-FANS AND MIXING BOX.

The packaged Roof Top air conditioning units of the **AIRMAXI** series are ideal for the air conditioning of large surface areas for public use such as halls, shopping centres, cafeterias, restaurants and health centres, or for industrial environments such as food processing or preservation centres. These units feature Scroll compressors with R410A refrigerant and **EC Inverter Plug-Fans.** The EC Inverter Plug-Fans with high energy efficiency backward blades both for intake as well as delivery are managed by an electronic control adjusting fans' rotational speed to adapt the air flow to the system capacity.
Equipped with extruded aluminium alloy sections and 50mm-thick sandwich panelling, these units are available in Cooling only and Reversible Heat Pump version.
The flat or pocket filters help to keep the air quality at a suitable level in order to guarantee appropriate hygiene standards.
The MS units have an high level of modularity and adaptability to every plant-engineering need:

The units are compliant to the ErP Regulation.

FROM 58 KW TO 252 KW.

VERSION

URT/EC/MS
Cooling only with EC Inverter Plug-Fans and Mixing Box

URT/EC/WP/MS
Reversible Heat Pump with EC Inverter Plug-Fans and Mixing Box

FEATURES

- Structure of base perimeter made of steel sheet elements galvanised. Frame made of extruded aluminium alloy profiles connected by 3 way joints. Assembling of the base to the frame is of dual support and grants the walking on the base panels installation without sticking out screws. 50mm thick sandwich panels made of prepainted steel sheet; water proofing granted by gaskets having shape memory for perfect seal up even after repeated removals. Section connection is effected by means of assembling conic stirrups and water proofing is granted by gaskets.
- Scroll compressors with oil sight glass, internal overheat protection and crankcase heater.
- Condenser and evaporator with copper tube and aluminium finned coil.
- High efficiency delivery reverse blade EC INVERTER PLUG-FANS, with electronic speed control to easily adapt to the system characteristics.
- R410A refrigerant.
- Electrical board includes: door interlocking isolator, fuses, thermal protection relays on compressors, thermocontacts for the fans of the condensing section and contactors for the fan motors of the air handling section.
- Microprocessor for the automatic control of the unit.

ACCESSORIES

FACTORY FITTED ACCESSORIES:

IM	Automatic circuit breakers
SL	Unit silencement
RFM	Cooling circuit shut-off valve on discharge line
RFL	Cooling circuit shut-off valve on liquid line
CT	Condensing control down to 0 °C
CC	Condensing control down to -20 °C
ECA	EC Inverter fans on condensing section
TXC	Condensing coil with pre-coated fins
TXE	Evaporating coil with pre-coated fins
FT/M	Soft bag filters efficiency M6-F7-F8
FT/R	Rigid bag filters efficiency M6-F7-F8
FT/E	Electrostatic filters
AT	Constant air flow regulation control
AT/P	Constant available static pressure regulation control
WS2	Hot water coil with 3-Way valve
EHG	Electrical heater with step regulation
SQ	Air quality sensor
SSA	Active sanitation systems
PF	Filter differential pressure switch
IS	Modbus RTU protocol, RS485 serial interface
IST	Modbus TCP/IP protocol, Ethernet port
ISB	BACnet MSTP protocol, RS485 serial interface
ISBT	BACnet TCP/IP protocol, Ethernet port
ISL	LonWorks protocol, FTT-10 serial interface
ISS	SNMP protocol, Ethernet port
CP	Potential free contacts
RP	Coils protection metallic guards

LOOSE ACCESSORIES:

MN	High and low pressure gauges
CR	Remote control panel
AG	Rubber shock absorbers

TECHNICAL DATA - URT/EC/MS 051÷212 S/K

MODEL			051	061	071	081	091	101	111	131	152	172	212
Cooling	Cooling capacity (1)	kW	57.9	65.8	77.6	87.4	98.6	113	129	145	168	198	252
	Absorbed power (1),(2)	kW	19.4	21.8	24.6	26.2	30.8	37.8	40.4	43.3	54.6	61.5	85.1
Cooling (EN14511)	SEER (3)		3.65	3.68	3.86	3.82	3.90	3.84	3.71	3.81	3.88	3.76	3.78
	Energy Efficiency (3)	%	143	144	151	150	153	151	145	149	152	147	148
Heating	Heating capacity (4)	kW	60.2	67.2	76.8	88.6	101	115	133	151	173	204	262
	Absorbed power (2),(4)	kW	16.8	17.9	20.2	22.8	25.2	32.2	34.0	40.0	45.7	50.4	70.5
Heating (EN14511)	SCOP (5)		3.22	3.23	3.31	3.31	3.26	3.23	3.20	3.29	3.33	3.32	3.24
	Energy Efficiency (5)	%	126	126	129	129	127	126	125	129	130	130	127
Air treatment section (EC version)	Air flow	m³/s	2.67	3.30	4.05	4.05	4.84	5.49	6.32	6.32	8.20	9.79	12.31
	Available static pressure	Pa	250	250	250	250	250	250	250	250	250	250	250
	Fan	n°	1	1	2	2	2	2	2	2	2	4	4
	Filter	Tipo	G4	G4	G4	G4	G4	G4	G4	G4	G4	G4	G4
Condensing section	Compressor	n°	2	2	2	2	2	3	3	3	4	4	4
	Refrigerant circuits	n°	1	1	1	1	1	1	1	1	2	2	2
	Capacity steps	n°			2			3		3		4	
Hot water coil	Heating capacity (6)	kW	85	100	125	125	150	175	200	200	250	300	350
	Air pressure drops	Pa	30	31	31	31	31	30	36	36	35	35	57
	Water flow (6)	l/s	2.03	2.39	2.99	2.99	3.58	4.18	4.78	4.78	5.97	7.17	8.36
	Water pressure drops	kPa	45	47	48	48	49	44	51	51	53	57	45
	Water connections	"G	1"½	1"½	1"½	1"½	1"½	2"	2"	2"	2"	2 ½"	2 ½"
Electrical heater	Power supply	V/Ph/Hz			400/3/50						400/3/50		
	Heating capacity	kW	15	21	27	27	27	41	41	41	41	48	55
	Max. absorbed current	A	22	30	39	39	39	59	59	59	59	69	79
	Steps	n°	2	2	2	2	2	4	4	4	4	4	4
Electrical characteristics (EC version)	Power supply	V/Ph/Hz			400/3/50						400/3/50		
	Max. running current	A	46	47	56	60	69	88	93	102	126	148	170
	Max. starting current	A	169	169	179	192	236	212	225	269	258	315	344
Sound pressure	EC version (7)	dB(A)	57	57	57	57	57	58	59	59	60	60	61
Weights (EC version)	Transport weight	Kg	1070	1135	1245	1340	1360	1560	1940	1990	2300	2520	3465
	Operating weight	Kg	1055	1120	1225	1320	1340	1540	1920	1970	2280	2500	3435

COMPLEMENTARY SECTIONS

UM Section with preparation for Humidifier
UM/EN Section Humidifier with electrodes immersed
F/CD Condensation endothermic hot air generator with modulating gas burner

MIXING BOX

MS. Further to components of the basic section, includes two wing profile aluminium dampers with spring return servomotors; the opposite movement is ensured by transmission of nylon gear.

DIMENSIONS

MODEL			051	061	071	081	091	101	111	131	152	172	212
L	EC	mm	3430	3530	3640	3640	3740	4220	4950	4950	5600	5750	7850
W	EC	mm	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200
H	EC	mm	2100	2340	2340	2340	2340	2340	2340	2340	2340	2510	2510

CLEARANCE AREA

URT/EC/MS 051÷101 S/K

800 | 1700 | 800 | 1700

URT/EC/MS 111÷212 S/K

1000 | 1700 | 1000 | 1700

Electrical board side

NOTES

1. Evaporator inlet air temperature 27 °C d.b./19 °C w.b.; ambient air temperature 35 °C.
2. Excluded the power absorbed by fans of air treatment section.
3. Seasonal energy efficiency of cooling. According to EU Regulation n. 2016/2281.
4. Condenser inlet air temperature 20 °C, ambient air temperature 7 °C d.b./6 °C w.b.
5. Seasonal energy efficiency of heating with average climatic conditions. According to EU Regulation n. 2016/2281.
6. Inlet air temperature 20 °C, water temperature 70/60 °C.
7. Sound pressure level measured in free field conditions at 1 m from the unit. According to ISO 3744.

N.B. Weights of WP versions are specified on technical brochure.

URT/EC/ECO 051÷212 S/K

DOUBLE SKIN PACKAGED ROOF TOP UNITS WITH SCROLL COMPRESSORS, EC INVERTER PLUG-FANS AND ECONOMIZER.

AIRMAXI

The packaged Roof Top air conditioning units of the **AIRMAXI** series are ideal for the air conditioning of large surface areas for public use such as halls, shopping centres, cafeterias, restaurants and health centres, or for industrial environments such as food processing or preservation centres. These units feature Scroll compressors with R410A refrigerant and **EC Inverter Plug-Fans.** The EC Inverter Plug-Fans with high energy efficiency backward blades both for intake as well as delivery are managed by an electronic control adjusting fans' rotational speed to adapt the air flow to the system capacity.
Equipped with extruded aluminium alloy sections and 50mm-thick sandwich panelling, these units are available in Cooling only and Reversible Heat Pump version.
The flat or pocket filters help to keep the air quality at a suitable level in order to guarantee appropriate hygiene standards.
The ECO units have an high level of modularity and adaptability to every plant-engineering need: these units feature, in addition to the basic sections, an **ECONOMIZER** automatically controlled both in FREE-COOLING or FREE-HEATING.
The unit can be equipped, as an option, with the innovative **Thermodynamic Coil-Boost Heat Recovery** to achieve better performance and efficiency both in cooling and heating up to 15%.

FROM 58 KW TO 252 KW.

The units are compliant to the ErP Regulation.

VERSION

URT/EC/ECO
Cooling only with EC Inverter Plug-Fans and Economizer

URT/EC/WP/ECO
Reversible Heat Pump with EC Inverter Plug-Fans and Economizer

FEATURES

- Structure of base perimeter made of steel sheet elements galvanised. Frame made of extruded aluminium alloy profiles connected by 3 way joints. Assembling of the base to the frame is of dual support and grants the walking on the base panels installation without sticking out screws. 50mm thick sandwich panels made of prepainted steel sheet; water proofing granted by gaskets having shape memory for perfect seal up even after repeated removals. Section connection is effected by means of assembling conic stirrups and water proofing is granted by gaskets.
- Scroll compressors with oil sight glass, internal overheat protection and crankcase heater.
- Condenser and evaporator with copper tube and aluminium finned coil.
- High efficiency delivery & intake reverse blade EC INVERTER PLUG-FANS, with electronic speed control to easily adapt to the system characteristics.
- R410A refrigerant.
- Electrical board includes: door interlocking isolator, fuses, thermal protection relays on compressors, thermocontacts for the fans of the condensing section and contactors for the fan motors of the air handling section.
- Microprocessor for the automatic control of the unit.

ACCESSORIES

FACTORY FITTED ACCESSORIES:

IM	Automatic circuit breakers
SL	Unit silencement
THCB	Thermodynamic Coil-Boost Heat Recovery (ECO only)
RFM	Cooling circuit shut-off valve on discharge line
RFL	Cooling circuit shut-off valve on liquid line
CT	Condensing control down to 0 °C
CC	Condensing control down to -20 °C
ECA	EC Inverter fans on condensing section
TXC	Condensing coil with pre-coated fins
TXE	Evaporating coil with pre-coated fins
FT/M	Soft bag filters efficiency M6-F7-F8
FT/R	Rigid bag filters efficiency M6-F7-F8
FT/E	Electrostatic filters
AT	Constant air flow regulation control
AT/P	Constant available static pressure regulation control
WS2	Hot water coil with 3-Way valve
EHG	Electrical heater with step regulation
CH	Enthalpic control (ECO only)
SQ	Air quality sensor
SSA	Active sanitation systems
PF	Filter differential pressure switch
IS	Modbus RTU protocol, RS485 serial interface
IST	Modbus TCP/IP protocol, Ethernet port
ISB	BACnet MSTP protocol, RS485 serial interface
ISBT	BACnet TCP/IP protocol, Ethernet port
ISL	LonWorks protocol, FTT-10 serial interface
ISS	SNMP protocol, Ethernet port
CP	Potential free contacts
RP	Coils protection metallic guards

LOOSE ACCESSORIES:

MN	High and low pressure gauges
CR	Remote control panel
AG	Rubber shock absorbers

ErP SEER 2021 ErP SCOP

TECHNICAL DATA - URT/EC/ECO 051÷212 S/K

MODEL			051	061	071	081	091	101	111	131	152	172	212
Cooling	Cooling capacity (1)	kW	57.9	65.8	77.6	87.4	98.6	113	129	145	168	198	252
	Absorbed power (1),(2)	kW	19.4	21.8	24.6	26.2	30.8	37.8	40.4	43.3	54.6	61.5	85.1
Cooling (EN14511)	SEER (3)		3.65	3.68	3.86	3.82	3.90	3.84	3.71	3.81	3.88	3.76	3.78
	Energy Efficiency (3)	%	143	144	151	150	153	151	145	149	152	147	148
Heating	Heating capacity (4)	kW	60.2	67.2	76.8	88.6	101	115	133	151	173	204	262
	Absorbed power (2),(4)	kW	16.8	17.9	20.2	22.8	25.2	32.2	34.0	40.0	45.7	50.4	70.5
Heating (EN14511)	SCOP (5)		3.22	3.23	3.31	3.31	3.26	3.23	3.20	3.29	3.33	3.32	3.24
	Energy Efficiency (5)	%	126	126	129	129	127	126	125	129	130	130	127
Air treatment section (EC version)	Air flow	m³/s	2.67	3.30	4.05	4.05	4.84	5.49	6.32	6.32	8.20	9.79	12.31
	Available static pressure	Pa	250	250	250	250	250	250	250	250	250	250	250
	Fan	n°	1	1	2	2	2	2	2	2	2	4	4
	Filter	Tipo	G4	G4	G4	G4	G4	G4	G4	G4	G4	G4	G4
Air intake section (EC version)	Air flow	m³/s	2.67	3.30	4.05	4.05	4.84	5.49	6.32	6.32	8.20	9.79	12.31
	Available static pressure	Pa	100	100	100	100	100	100	100	100	100	100	100
	Fan	n°	1	1	2	2	2	2	2	2	2	4	4
Condensing section	Compressor	n°	2	2	2	2	2	3	3	3	4	4	4
	Refrigerant circuits	n°	1	1	1	1	1	1	1	1	2	2	2
	Capacity steps	n°			2			3	3			4	
Hot water coil	Heating capacity (6)	kW	85	100	125	125	150	175	200	200	250	300	350
	Air pressure drops	Pa	30	31	31	31	31	30	36	36	35	35	57
	Water flow (6)	l/s	2.03	2.39	2.99	2.99	3.58	4.18	4.78	4.78	5.97	7.17	8.36
	Water pressure drops	kPa	45	47	48	48	49	44	51	51	53	57	45
	Water connections	"G	1"½	1"½	1"½	1"½	1"½	2"	2"	2"	2"	2 ½"	2 ½"
Electrical heater	Power supply	V/Ph/Hz			400/3/50						400/3/50		
	Heating capacity	kW	15	21	27	27	27	41	41	41	41	48	55
	Max. absorbed current	A	22	30	39	39	39	59	59	59	59	69	79
	Steps	n°	2	2	2	2	2	4	4	4	4	4	4
Electrical characteristics (EC version)	Power supply	V/Ph/Hz			400/3/50						400/3/50		
	Max. running current	A	46	47	56	60	69	88	93	102	126	148	170
	Max. starting current	A	169	169	179	192	236	212	225	269	258	315	344
Sound pressure	EC version (7)	dB(A)	57	57	57	57	57	58	59	59	60	60	61
Weights (EC version)	Transport weight	Kg	1500	1610	1740	1840	1860	2000	2400	2450	3020	3370	4190
	Operating weight	Kg	1480	1590	1720	1820	1840	1975	2375	2425	2990	3335	4150

COMPLEMENTARY SECTIONS

UM	Section with preparation for Humidifier
UM/EN	Section Humidifier with electrodes immersed
F/CD	Condensation endothermic hot air generator with modulating gas burner

ECONOMIZER

ECO. Further to components of the basic section, includes: return air fan with electrical motor, complete of adjustable transmission, mounted on elastic supports; motorized wing profile aluminium dampers, the opposite movement is ensured by transmission of nylon gear. Exhaust, recirculation and fresh air are controlled through the microprocessor fitted in the base unit; this microprocessor, according to the temperature of the return and fresh air, modulates the opening of the dampers and controls the cooling circuit capacity steps to ensure comfort conditions of the handled air. The adjustments of the ECO versions are automatically controlled both in free-cooling and free-heating mode.

DIMENSIONS

MODEL			051	061	071	081	091	101	111	131	152	172	212
L	EC	mm	5260	5480	5570	5570	5650	6170	6900	6900	8080	8470	11020
W	EC	mm	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200
H	EC	mm	2100	2340	2340	2340	2340	2340	2340	2340	2340	2510	2510

CLEARANCE AREA

URT/EC/ECO 051÷101 S/K

800 | 1700 | 800 | 1700

URT/EC/ECO 111÷212 S/K

1000 | 1700 | 1000 | 1700

Electrical board side

NOTES

1. Evaporator inlet air temperature 27 °C d.b./19 °C w.b.; ambient air temperature 35 °C.
2. Excluded the power absorbed by fans of air treatment section.
3. Seasonal energy efficiency of cooling. According to EU Regulation n. 2016/2281.
4. Condenser inlet air temperature 20 °C, ambient air temperature 7 °C d.b./6 °C w.b.
5. Seasonal energy efficiency of heating with average climatic conditions. According to EU Regulation n. 2016/2281.
6. Inlet air temperature 20 °C, water temperature 70/60 °C.
7. Sound pressure level measured in free field conditions at 1 m from the unit. According to ISO 3744.

N.B. Weights of WP versions are specified on technical brochure.

URT/EC/ECO/REC-FX 051÷212 S/K

DOUBLE SKIN PACKAGED ROOF TOP UNITS WITH SCROLL COMPRESSORS, EC INVERTER PLUG-FANS, ECONOMIZER AND CROSS-FLOW HEAT RECOVERY.

The packaged Roof Top air conditioning units of the **AIRMAXI** series are ideal for the air conditioning of large surface areas for public use such as halls, shopping centres, cafeterias, restaurants and health centres, or for industrial environments such as food processing or preservation centres. These units feature Scroll compressors with R410A refrigerant and **EC Inverter Plug-Fans.** The EC Inverter Plug-Fans with high energy efficiency backward blades both for intake as well as delivery are managed by an electronic control adjusting fans' rotational speed to adapt the air flow to the system capacity.
Equipped with extruded aluminium alloy sections and 50mm-thick sandwich panelling, these units are available in Cooling only and Reversible Heat Pump version.
The flat or pocket filters help to keep the air quality at a suitable level in order to guarantee appropriate hygiene standards.
The ECO/REC-FX units have an high level of modularity and adaptability to every plant-engineering need: these units feature, in addition to the basic sections, an **ECONOMIZER** automatically controlled both in FREE-COOLING or FREE-HEATING and a **CROSS-FLOW HEAT RECOVERY.**

The units are compliant to the ErP Regulation.

FROM 58 KW TO 252 KW.

VERSION

URT/EC/ECO/REC-FX
Cooling only with EC Inverter Plug-Fans, Economizer and Cross-flow Heat Recovery

URT/EC/WP/ECO/REC-FX
Reversible Heat Pump with EC Inverter Plug-Fans, Economizer and Cross-flow Heat Recovery

FEATURES

- Structure of base perimeter made of steel sheet elements galvanised. Frame made of extruded aluminium alloy profiles connected by 3 way joints. Assembling of the base to the frame is of dual support and grants the walking on the base panels installation without sticking out screws. 50mm thick sandwich panels made of prepainted steel sheet; water proofing granted by gaskets having shape memory for perfect seal up even after repeated removals. Section connection is effected by means of assembling conic stirrups and water proofing is granted by gaskets.
- Scroll compressors with oil sight glass, internal overheat protection and crankcase heater.
- Condenser and evaporator with copper tube and aluminium finned coil.
- High efficiency delivery & intake reverse blade EC INVERTER PLUG-FANS, with electronic speed control to easily adapt to the system characteristics.
- R410A refrigerant.
- Electrical board includes: door interlocking isolator, fuses, thermal protection relays on compressors, thermocontacts for the fans of the condensing section and contactors for the fan motors of the air handling section.
- Microprocessor for the automatic control of the unit.

ACCESSORIES

FACTORY FITTED ACCESSORIES:

IM	Automatic circuit breakers
SL	Unit silencement
RFM	Cooling circuit shut-off valve on discharge line
RFL	Cooling circuit shut-off valve on liquid line
CT	Condensing control down to 0 °C
CC	Condensing control down to -20 °C
ECA	EC Inverter fans on condensing section
TXC	Condensing coil with pre-coated fins
TXE	Evaporating coil with pre-coated fins
FT/M	Soft bag filters efficiency M6-F7-F8
FT/R	Rigid bag filters efficiency M6-F7-F8
FT/E	Electrostatic filters
AT	Constant air flow regulation control
AT/P	Constant available static pressure regulation control
WS2	Hot water coil with 3-Way valve
EHG	Electrical heater with step regulation
CH	Enthalpic control (ECO only)
SQ	Air quality sensor
SSA	Active sanitation systems
PF	Filter differential pressure switch
IS	Modbus RTU protocol, RS485 serial interface
IST	Modbus TCP/IP protocol, Ethernet port
ISB	BACnet MSTP protocol, RS485 serial interface
ISBT	BACnet TCP/IP protocol, Ethernet port
ISL	LonWorks protocol, FTT-10 serial interface
ISS	SNMP protocol, Ethernet port
CP	Potential free contacts
RP	Coils protection metallic guards

LOOSE ACCESSORIES:

MN	High and low pressure gauges
CR	Remote control panel
AG	Rubber shock absorbers

TECHNICAL DATA - URT/EC/ECO/REC-FX 051÷212 S/K

MODEL			051	061	071	081	091	101	111	131	152	172	212
Cooling	Cooling capacity (1)	kW	57.9	65.8	77.6	87.4	98.6	113	129	145	168	198	252
	Absorbed power (1),(2)	kW	19.4	21.8	24.6	26.2	30.8	37.8	40.4	43.3	54.6	61.5	85.1
Cooling (EN14511)	SEER (3)		3.65	3.68	3.86	3.82	3.90	3.84	3.71	3.81	3.88	3.76	3.78
	Energy Efficiency (3)	%	143	144	151	150	153	151	145	149	152	147	148
Heating	Heating capacity (4)	kW	60.2	67.2	76.8	88.6	101	115	133	151	173	204	262
	Absorbed power (2),(4)	kW	16.8	17.9	20.2	22.8	25.2	32.2	34.0	40.0	45.7	50.4	70.5
Heating (EN14511)	SCOP (5)		3.22	3.23	3.31	3.31	3.26	3.23	3.20	3.29	3.33	3.32	3.24
	Energy Efficiency (5)	%	126	126	129	129	127	126	125	129	130	130	127
Air treatment section (EC version)	Air flow	m³/s	2.67	3.30	4.05	4.05	4.84	5.49	6.32	6.32	8.20	9.79	12.31
	Available static pressure	Pa	250	250	250	250	250	250	250	250	250	250	250
	Fan	n°	1	1	2	2	2	2	2	2	2	4	4
	Filter	Tipo	G4	G4	G4	G4	G4	G4	G4	G4	G4	G4	G4
Air intake section (EC version)	Air flow	m³/s	2.67	3.30	4.05	4.05	4.84	5.49	6.32	6.32	8.20	9.79	12.31
	Available static pressure	Pa	100	100	100	100	100	100	100	100	100	100	100
	Fan	n°	1	1	2	2	2	2	2	2	2	4	4
Condensing section	Compressor	n°	2	2	2	2	2	3	3	3	4	4	4
	Refrigerant circuits	n°	1	1	1	1	1	1	1	1	2	2	2
	Capacity steps	n°			2			3	3			4	
Hot water coil	Heating capacity (6)	kW	85	100	125	125	150	175	200	200	250	300	350
	Air pressure drops	Pa	30	31	31	31	31	30	36	36	35	35	57
	Water flow (6)	l/s	2.03	2.39	2.99	2.99	3.58	4.18	4.78	4.78	5.97	7.17	8.36
	Water pressure drops	kPa	45	47	48	48	49	44	51	51	53	57	45
	Water connections	"G	1"½	1"½	1"½	1"½	1"½	2"	2"	2"	2"	2 ½"	2 ½"
Electrical heater	Power supply	V/Ph/Hz			400/3/50						400/3/50		
	Heating capacity	kW	15	21	27	27	27	41	41	41	41	48	55
	Max. absorbed current	A	22	30	39	39	39	59	59	59	59	69	79
	Steps	n°	2	2	2	2	2	4	4	4	4	4	4
Electrical characteristics (EC version)	Power supply	V/Ph/Hz			400/3/50						400/3/50		
	Max. running current	A	46	47	56	60	69	88	93	102	126	148	170
	Max. starting current	A	169	169	179	192	236	212	225	269	258	315	344
Sound pressure	EC version (7)	dB(A)	57	57	57	57	57	58	59	59	60	60	61
Weights (EC version)	Transport weight	Kg	1645	1720	1910	2020	2040	2210	2640	2690	3260	3590	4390
	Operating weight	Kg	1620	1695	1885	1995	2015	2185	2610	2660	3225	3555	4350

COMPLEMENTARY SECTIONS

UM	Section with preparation for Humidifier
UM/EN	Section Humidifier with electrodes immersed
F/CD	Condensation endothermic hot air generator with modulating gas burner

ECONOMIZER AND CROSS-FLOW HEAT RECOVERY

ECO/REC-FX. Further to the components of the ECO section, it includes: static recovery device made of aluminium with moisture drain pan, flat filters inspectable through hinged door and dampers with return spring servomotors (fresh air damper + air recirculation damper + exhaust air damper + 2 Free-Cooling dampers). Also the adjustment of this section is included into the unit control.

DIMENSIONS

MODEL			051	061	071	081	091	101	111	131	152	172	212
L	EC	mm	6060	6060	6270	6270	6450	7050	7870	7870	9120	9380	11650
W	EC	mm	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200
H	EC	mm	2100	2340	2340	2340	2340	2340	2340	2340	2340	2510	2510

CLEARANCE AREA

URT/EC/ECO/REC-FX 051÷101 S/K

800 | 1700 | 800 | 1700

URT/EC/ECO/REC-FX 111÷212 S/K

1000 | 1700 | 1000 | 1700

Electrical board side

NOTES

1. Evaporator inlet air temperature 27 °C d.b./19 °C w.b.; ambient air temperature 35 °C.
2. Excluded the power absorbed by fans of air treatment section.
3. Seasonal energy efficiency of cooling. According to EU Regulation n. 2016/2281.
4. Condenser inlet air temperature 20 °C, ambient air temperature 7 °C d.b./6 °C w.b.
5. Seasonal energy efficiency of heating with average climatic conditions. According to EU Regulation n. 2016/2281.
6. Inlet air temperature 20 °C, water temperature 70/60 °C.
7. Sound pressure level measured in free field conditions at 1 m from the unit. According to ISO 3744.

N.B. Weights of WP versions are specified on technical brochure.

URT/EC/ECO/REC-WH 051÷212 S/K

DOUBLE SKIN PACKAGED ROOF TOP UNITS WITH SCROLL COMPRESSORS, EC INVERTER PLUG-FANS, ECONOMIZER AND WHEEL HEAT RECOVERY.

The packaged Roof Top air conditioning units of the **AIRMAXI** series are ideal for the air conditioning of large surface areas for public use such as halls, shopping centres, cafeterias, restaurants and health centres, or for industrial environments such as food processing or preservation centres. These units feature Scroll compressors with R410A refrigerant and **EC Inverter Plug-Fans.** The EC Inverter Plug-Fans with high energy efficiency backward blades both for intake as well as delivery are managed by an electronic control adjusting fans' rotational speed to adapt the air flow to the system capacity.
Equipped with extruded aluminium alloy sections and 50mm-thick sandwich panelling, these units are available in Cooling only and Reversible Heat Pump version.
The flat or pocket filters help to keep the air quality at a suitable level in order to guarantee appropriate hygiene standards.
The ECO/REC-WH units have an high level of modularity and adaptability to every plant-engineering need: these units feature, in addition to the basic sections, an **ECONOMIZER** automatically controlled both in FREE-COOLING or FREE-HEATING and a **WHEEL HEAT RECOVERY,** able to treat up to 100% of total air flow.

The units are compliant to the ErP Regulation.

FROM 58 KW TO 252 KW.

VERSION

URT/EC/ECO/REC-WH
Cooling only with EC Inverter Plug-Fans, Economizer and Wheel Heat Recovery

URT/EC/WP/ECO/REC-WH
Reversible Heat Pump with EC Inverter Plug-Fans, Economizer and Wheel Heat Recovery

FEATURES

- Structure of base perimeter made of steel sheet elements galvanised. Frame made of extruded aluminium alloy profiles connected by 3 way joints. Assembling of the base to the frame is of dual support and grants the walking on the base panels installation without sticking out screws. 50mm thick sandwich panels made of prepainted steel sheet; water proofing granted by gaskets having shape memory for perfect seal up even after repeated removals. Section connection is effected by means of assembling conic stirrups and water proofing is granted by gaskets.
- Scroll compressors with oil sight glass, internal overheat protection and crankcase heater.
- Condenser and evaporator with copper tube and aluminium finned coil.
- High efficiency delivery & intake reverse blade EC INVERTER PLUG-FANS, with electronic speed control to easily adapt to the system characteristics.
- Electronic expansion valve.
- R410A refrigerant.
- Electrical board includes: door interlocking isolator, fuses, thermal protection relays on compressors, thermocontacts for the fans of the condensing section and contactors for the fan motors of the air handling section.
- Microprocessor for the automatic control of the unit.

ACCESSORIES

FACTORY FITTED ACCESSORIES:

IM	Automatic circuit breakers
SL	Unit silencement
RFM	Cooling circuit shut-off valve on discharge line
RFL	Cooling circuit shut-off valve on liquid line
CT	Condensing control down to 0 °C
CC	Condensing control down to -20 °C
ECA	EC Inverter fans on condensing section
TXC	Condensing coil with pre-coated fins
TXE	Evaporating coil with pre-coated fins
FT/M	Soft bag filters efficiency M6-F7-F8
FT/R	Rigid bag filters efficiency M6-F7-F8
FT/E	Electrostatic filters
AT	Constant air flow regulation control
AT/P	Constant available static pressure regulation control
WS2	Hot water coil with 3-Way valve
EHG	Electrical heater with step regulation
CH	Enthalpic control (ECO only)
SQ	Air quality sensor
SSA	Active sanitation systems
PF	Filter differential pressure switch
IS	Modbus RTU protocol, RS485 serial interface
IST	Modbus TCP/IP protocol, Ethernet port
ISB	BACnet MSTP protocol, RS485 serial interface
ISBT	BACnet TCP/IP protocol, Ethernet port
ISL	LonWorks protocol, FTT-10 serial interface
ISS	SNMP protocol, Ethernet port
CP	Potential free contacts
RP	Coils protection metallic guards

LOOSE ACCESSORIES:

MN	High and low pressure gauges
CR	Remote control panel
AG	Rubber shock absorbers