

Rooftop Packaged Air Conditioners

• EcoSer093-420



Four Seasons Comfort and Energy Efficiency

Untes Rooftop Package Type Air Conditioners with a wide range of capacities is designed to be used in shopping malls, conference halls, cinemas, storehouses etc. Quick installation, low cost, minimum energy consumption and low maintenance costs are some of the advantages of the unit.

Optimal Energy Efficiency, Air Quality and Comfort

- Wide and Versatile Range
- Integrated Freecooling Options
- Energy Saving Solutions for All Commercial Buildings.

Due to its elegant and ergonomic design, Rooftop units are the most ideal air treatment units for shopping malls, warehouses, offices, cinemas and large spaces. Its compact design perfectly suits all types of locations in terms of decoration. BSC and ADV types offer smart air conditioning solutions to the customers

- Compatible with EU 2016/2281 Ecodesign Regulation ErP 2021 Requirements
- Highly Efficient Cross Flow Plate Heat Recovery System Option
- Highly efficient EC plug fans with aerodynamic backward curved blades
- in order to guarantee low sound level.
- Flexible Solutions with 10 Different Models Suiting Different Capacities up to 48300 m3/h Airflow Rate
- Genius Efficiency Management System (GEMSYS) that Prioritizes Continuous High Efficiency
- High Indoor Air Quality Resulted by Filtration Classes from ISO Coarse ≥ 40% (G2) up to ISO ePM1 ≥ 80% (F9)
- Continuous 100% Fresh Air Operation Even in Harsh Environmental Conditions
- User Friendly Room Control Unit
- New Generation and Environmentally Friendly R-454B Refrigerant That Has a Lower GWP than Traditional Refrigerants
- Highly Efficient Condensing Type Direct Gas Burner Module Option
- Thermodynamic Heat Recovery Feature
- Thermic and Enthalpic Controlled Free Cooling Alternatives
- Delayed Defrost System Thanks to Unique Cooling Circuit Technique That Results in Less Demand to Enter Defrost Mode



EcoSer Series

URES093-420

- ❄️ 57 kW – 262 kW
- ☀️ 58 kW – 264 kW

- Flexible Package Air Conditioning Solutions
- Environmentally Friendly R-454B Refrigerant
- Gas Burner Heating Option
- Heat Recovery Unit Option
- Cooling/Heating with Step Capacity Control
- Advanced Microprocessor Control



Technical Features

- Structure and Panel: Harsh environment resistant furnace powder painted galvanized sheet with 19 mm thick isolation for thermal leak reduction and soundproofing.
- Filter: High air quality thanks to ISO Coarse ≥ 40% (G2) up to ISO ePM1 ≥ 80% (F9).
- Refrigerant Control: Electronic expansion valve as a standard in units with reversible cooling system.
- Compressor: Scroll compressors featuring Intermediate Discharge Valve (IDV) technology with uneven tandem or trio connection.
- Heating: Heat pump/ Gas burner/ Hot water/ Electrical heating.
- Heating/Cooling Coil: Copper pipe aluminum fins with various coating options
- Fan: Highly efficient EC plug fans with aerodynamic backward curved blades in order to guarantee low sound level. Airfoil, Sickle-shaped Aluminum blades with serrated trailing edge powered by thermally protected TEAO motors.
- Pressure: Medium/ High Pressure Gauge
- Energy Saving: Free-Cooling option (Thermic/ Enthalpy Free-Cooling)
- Power Supply and Control: Plug-and-play unit due to factory fitted controller
- Monitor/ Management: BMS management as a standard that can communicate with Modbus RTU or Modbus TCP/IP protocol.

Types	Versions	
BSC: Basic	SS: Only Cooling HP: Heat Pump	FRS: Full Fresh Application
ADV: Advanced	SS: Only Cooling HP: Heat Pump	HRS: : Heat Recovery System

Pressure Class | YB: High Pressure OB:: Medium Pressure

Options

- Safety Relief Valve
- Indoor and Outdoor Coil/Fin Coating Options
- Low/Medium/High Capacity Electrical Heater
- Electrical Pre-Heater
- Hot Water Coil
- Proportional Heating Control with 2/3-Way Valve Set
- Outdoor Coil Protection Grill
- Room Display Unit
- Room Temperature/Humidity/Air Quality Sensor Options
- Duct Type Air Quality Sensor
- Pre Filter/Filter Clogging Alarm
- First and Second Stage Panel Filter Options
- Smoke Detector
- Fire Alarm Digital Input
- Supply or Exhaust Fan Constant Airflow
- Manuel or Proportional Control Fresh Air Damper
- Free Cooling By Enthalpy Control
- IP55 Electrical Panel
- Dehumidification Control Feature
- Supply Air Temperature Control
- 4.3"/ 7" Touchscreen HMI Control Panel
- Proportionally Controlled Return Air By-Pass Damper at HRU
- Filter Options for the Heat Recovery Unit
- Fresh Air On/Off Damper (HRU)
- Electronic Expansion Valve (Only Cooling)
- Full Fresh Application
- Compressor Soft Starter

Modular Options

- Plate Heat Recovery Unit Module
- Bag Filter Module
- Low/High Capacity Direct Fired Gas Burner Module
- Exhaust EC Plug Fan Module

EcoSer Series		URES 093	URES 120	URES 146	URES 183	URES 212
Technical Features						
Nominal Airflow Rate	m³/h	9.300	12.000	14.600	18.300	21.200
External Static Pressure (Maximum)	Pa	1371	924	1344	1388	1189
Total Cooling Capacity ❶	kW	56,85	73,88	90,10	112,24	130,92
Total Sensible Cooling Capacity	kW	44,75	58,24	70,58	88,69	103,15
EER ❷		3,41	3,35	3,41	3,51	3,39
SEER ❷		5,25	5,01	5,27	5,4	5,08
ηs,c ❷	%	207	197	208	213	200
Total Heating Capacity ❸	kW	57,99	75,33	91,13	113,17	133,50
COP ❷		3,68	3,63	3,67	3,84	3,7
SCOP ❷		3,79	3,74	3,76	3,9	3,93
ηs,h ❷	%	148	147	147	153	154
Heating Options						
Gas Burner Unit Heating Capacity (Low, Middle, High)	kW	33,5/40,4/62,9	40,4/62,9/80	62,9/80/97,1	80/97,1/125,9	97,1/125,9/160,1
Electrical Heater Capacity (Low,Medium,High)	kW	18/36/54	24/49/73	29/58/86	37/73/110	40/80/120
Hot Water Heating Capacity (1R,2R) ❹	kW	47,5/83,8	60,3/107	75,4/133	95,5/168	109/192
Cooling Circuit						
Cooling Gas		R454B	R454B	R454B	R454B	R454B
Compressor Type		Scroll	Scroll	Scroll	Scroll	Scroll
Compressor		2	2	2	2	3
Cooling Circuit		1	1	1	1	1
Sound Information						
Sound Pressure Level ❺	dB(A)	60,4	60,3	61,4	64	63,4
Dimesion Information ❻						
Width (W)	mm	2.318	2.473	2.473	2.378	2.378
Height (H)	mm	1.680	1.698	1.860	2.060	2.160
Lenght (L)	mm	2.758	2.953	3.018	3.985	4.893
Weight ❼						
Total	kg	832	991	1194	1521	1552

❶ Outsideair temperature35°C DB,, coil inlet temperature27°C DB/19°C WB.
❷ (S)COPand (S)EERvalues were calculated in accordance with EN14511 and EN14825 standards. Mentioned values are in high pressure range.
❸ Outside air temperatureis 7°C DB,B, coil inlet temperatureis 20°C DB.
❹ Outsideair temperatureis 14°C DB,and coil waterin/out temperatureis 90°C/70°C.
❺ Sound pressure level at direction factor Q:2 and 5 meters away from the source.
❻ Dimensions for unit without options.
❼ Weight for unit without options."

EcoSer Series		URES 253	URES 289	URES 334	URES 378	URES 420
Technical Features						
Nominal Airflow Rate	m³/h	25.300	28.900	33.400	37.800	42.000
External Static Pressure (Maximum)	Pa	862	1323	1000	859	1054
Total Cooling Capacity ❶	kW	156,36	178,88	206,20	232,63	262,07
Total Sensible Cooling Capacity	kW	122,59	140,53	162,11	183,48	204,92
EER ❷		3,35	3,37	3,45	3,5	3,41
SEER ❷		5,23	5,51	5,29	5,5	5,38
ηs,c ❷	%	206	217	209	217	212
Total Heating Capacity ❸	kW	157,99	180,83	208,71	236,44	265,75
COP ❷		3,63	3,66	3,79	3,86	3,7
SCOP ❷		4,07	4,01	4,16	4,03	4,14
ηs,h ❷	%	160	157	163	158	163
Heating Options						
Gas Burner Unit Heating Capacity (Low, Middle, High)	kW	125,9/160,1/194,3	125,9/160,1/194,3	160,1/194,3/291,5	160,1/194,3/291,5	160,1/194,3/291,5
Electrical Heater Capacity (Low,Medium,High)	kW	48/95/143	58/115/173	67/134/202	76/151/227	84/168/252
Hot Water Heating Capacity (1R,2R) ❹	kW	132,1/239	147,2/261,6	174/306	196/355	219/396
Cooling Circuit						
Cooling Gas		R454B	R454B	R454B	R454B	R454B
Compressor Type		Scroll	Scroll	Scroll	Scroll	Scroll
Compressor		4	4	4	4	6
Cooling Circuit		2	2	2	2	2
Sound Information						
Ses Basınç Seviyesi ❺	dB(A)	63,2	64,9	66,5	67,1	65,2
Dimesion Information ❻						
Width (W)	mm	2.533	2.633	2.553	2.553	2.553
Height (H)	mm	2.398	2.408	2.362	2.362	2.511
Lenght (L)	mm	4.354	4.483	5.919	6.490	6.207
Weight ❼						
Total	kg	1975	2236	2425	2674	2970

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❺ Sound pressure level at direction factor Q:2 and 5 meters away from the source.
❻ Dimensions for unit without options.
❼ Weight for unit without options."

EcoSer Series		URES 093A	URES 120A	URES 146A	URES 183A	URES 212A
Technical Features						
Nominal Airflow Rate	m³/h	9.300	12.000	14.600	18.300	21.200
External Static Pressure (Maximum)	Pa	1371	924	1344	1388	1189
Total Cooling Capacity ❶	kW	56,68	76,72	92,92	115,74	136,34
Total Sensible Cooling Capacity	kW	44,72	58,29	70,51	88,34	103,41
EER ❷		3,29	3,24	3,26	3,37	3,28
SEER ❷		5,10	4,91	5,12	5,24	5,00
ηs,c ❷	%	201	193	202	206	197
Total Heating Capacity ❸	kW	61,22	79,92	96,91	120,21	142,07
COP ❷		3,67	3,54	3,58	3,74	3,6
SCOP ❷		3,78	3,69	3,73	3,86	3,91
ηs,h ❷	%	148	144	146	151	153
Heating Options						
Gas Burner Unit Heating Capacity (Low, Middle, High)	kW	33,5/40,4/62,9	40,4/62,9/80	62,9/80/97,1	80/97,1/125,9	97,1/125,9/160,1
Electrical Heater Capacity (Low,Medium,High)	kW	18/36/54	24/49/73	29/58/86	37/73/110	40/80/120
Hot Water Heating Capacity (1R,2R) ❹	kW	47,5/83,8	60,3/107	75,4/133	95,5/168	109/192
Cooling Circuit						
Cooling Gas		R410A	R410A	R410A	R410A	R410A
Compressor Type		Scroll	Scroll	Scroll	Scroll	Scroll
Compressor		2	2	2	2	3
Cooling Circuit		1	1	1	1	1
Sound Information						
Sound Pressure Level ❺	dB(A)	60,4	60,3	61,4	64	63,4
Dimesion Information ❻						
Width (W)	mm	2.318	2.473	2.473	2.378	2.378
Height (H)	mm	1.680	1.698	1.860	2.060	2.160
Lenght (L)	mm	2.758	2.953	3.018	3.985	4.893
Weight ❼						
Total	kg	834	993	1197	1525	1556

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❹ Outside air temperature is 14°C DB, and coil water in/out temperature is 90°C/70°C.
❺ Sound pressure level at direction factor Q:2 and 5 meters away from the source.
❻ Dimensions for unit without options.
❼ Weight for unit without options."

EcoSer Series		URES 253A	URES 289A	URES 334A	URES 378A	URES 420A
Technical Features						
Nominal Airflow Rate	m³/h	25.300	28.900	33.400	37.800	42.000
External Static Pressure (Maximum)	Pa	862	1323	1000	859	1054
Total Cooling Capacity ❶	kW	156,41	184,52	213,38	240,59	272,49
Total Sensible Cooling Capacity	kW	120,07	140,17	162,08	183,17	205,64
EER ❷		3,31	3,23	3,31	3,36	3,30
SEER ❷		5,30	5,37	5,18	5,36	5,31
ηs,c ❷	%	209	212	204	211	209,00
Total Heating Capacity ❸	kW	167,41	192,35	221,99	250,9	282,92
COP ❷		3,56	3,57	3,68	3,75	3,61
SCOP ❷		4,04	3,98	4,15	4,16	4,11
ηs,h ❷	%	158	156	163	163	161
Heating Options						
Gas Burner Unit Heating Capacity (Low, Middle, High)	kW	125,9/160,1/194,3	125,9/160,1/194,3	160,1/194,3/291,5	160,1/194,3/291,5	160,1/194,3/291,5
Electrical Heater Capacity (Low,Medium,High)	kW	48/95/143	58/115/173	67/134/202	76/151/227	84/168/252
Hot Water Heating Capacity (1R,2R) ❹	kW	132,1/239	147,2/261,6	174/306	196/355	219/396
Cooling Circuit						
Cooling Gas		R410A	R410A	R410A	R410A	R410A
Compressor Type		Scroll	Scroll	Scroll	Scroll	Scroll
Compressor		4	4	4	4	6
Cooling Circuit		2	2	2	2	2
Sound Information						
Sound Pressure Level ❺	dB(A)	63,2	64,9	66,5	67,1	65,2
Dimesion Information ❻						
Width (W)	mm	2.533	2.633	2.553	2.553	2.553
Height (H)	mm	2.398	2.408	2.362	2.362	2.511
Lenght (L)	mm	4.354	4.483	5.919	6.490	6.207
Weight ❼						
Total	kg	1980	2242	2431	2682	2978

❶ Outside air temperature 35°C DB, , coil inlet temperature 27°C DB/19°C WB.
❷ (S)COP and (S)EER values were calculated in accordance with EN14511 and EN14825 standards. Mentioned values are in high pressure range.
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❺ Sound pressure level at direction factor Q:2 and 5 meters away from the source.
❻ Dimensions for unit without options.
❼ Weight for unit without options."

Control Features

- Stylish design, Room Display Unit with Digital Screen
- Temperature Set Value Changing
- Cooling/Off/Heating and Fan Automatic/On Mode Options
- Pump-Down Control
- Filter Usage Counter
- Weekly Working Program Configuration
- Alarm State Monitoring and Resetting
- Supply Fan, Compressor Maintenance Clock Management
- Building Automation System with Modbus RTU Communication Card
- Optional Smoke Detector and External Fire Alarm Input
- Optional Supply Temperature Control
- Optional Dehumidification Control
- Optional Filter Clogging Control
- Optional Manual On/Off Control Fresh Air Damper Control
- Optional Return Air By-Pass Damper Control





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