

UNTES®

HEATING VENTILATING AIR CONDITIONING

ROOFTOP

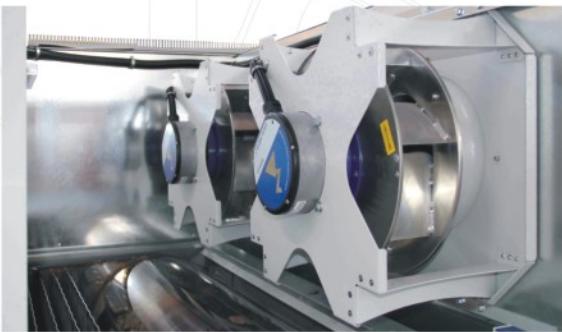


UNTES®



SERIES

- Rooftop which is indispensable unit for air conditioning of large volume spaces has been developed to satisfy requirements of modern era by Untes®. URTP model packaged rooftop units were developed in two main series.
- **BSC** series, basic packaged units,
- **ECO** series, high energy performance (packaged units),
- In both series cooling only or heat pump option is available in order to present alternative solutions.



AIR CONTROL

- Superior air flow rate control thanks to silent plug fan powered by frequency inverter controlled motor.
- Three external static pressure selection alternatives for each model.
- Manually controlled fresh air damper (**BSC**).



HEATING - COOLING

- Two independent cooling / heating circuits,
- Three step capacity control by uneven cooling / heating system,
- Smart defrost system,
- Eco-friendly R-410A refrigerant,
- High efficient and silent scroll compressor.



FREE COOLING

- Exclusive features of **ECO** series;
- Free cooling appliance by both thermal or enthalpic method,
 - Fresh and return air volume control in different ambient temperatures by modulating dampers.



FREE COOLING OPTIONS

Options for both series;

- Thermal or enthalpic control of free cooling,
- With or without return fans.



ADDITIONAL HEATING OPTIONS

Exclusive solutions for different applications in both series;

- Direct gas fired condensing heating module,
- Hydronic heating system,
- Multi-staged electrical heating system.



ROOF-CURB SOLUTIONS

Various roof curb alternatives for different varieties of connections;

- Bottom inlet-outlet with / without axial return fan,
- Side inlet-outlet with / without axial return fan,
- Automatically controlled fresh air damper,
- Automatically controlled exhaust air damper,
- Fresh and exhaust air rain hood.



ADDITIONAL OPTIONS

- Hydrophilic or epoxy coated heat exchangers,
- Power exhaust fans fans,
- Fin protection grill.

ROOF-TOP

CONTROL CONCEPT



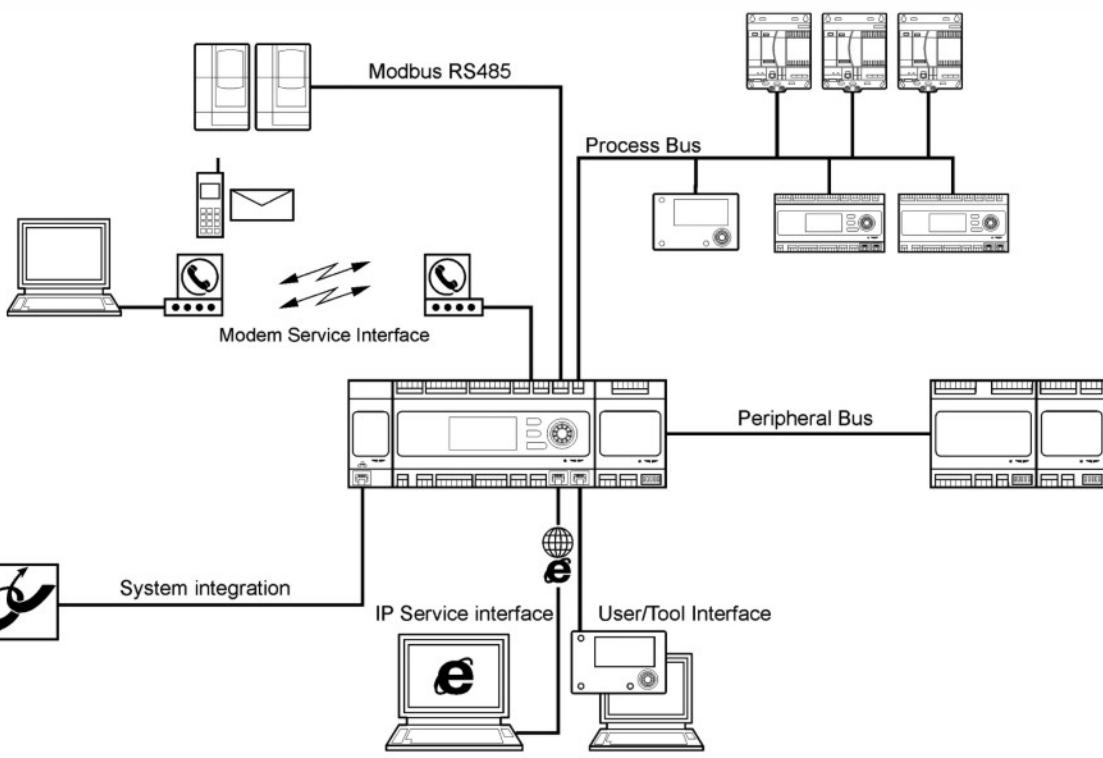
STANDARD CONTROL FEATURES

URTP control panel presents all features of basic air conditioning applications itself.

- Room control unit,
- Auto heating / cooling mode transition,
- Manually dehumidifying mode,
- Night or vacation time mode,
- System error monitoring and tracking,
- Service alarms,
- Smart defrost system,
- Daily and weekly schedule function,
- Standard Modbus connection for building management system (**BMS**),
- Ethernet and RS-232 ports for local/remote servicing.

ADDITIONAL CONTROL OPTIONS

- CO₂ detector,
- Smoke detector,
- Filter clogging alarm,
- Relative humidity sensor,
- Maintenance alarms,
- Indoor air flow rate control (constant air volume),
- Condense control for low temperature cooling.



URTP TECHNICAL INFORMATION

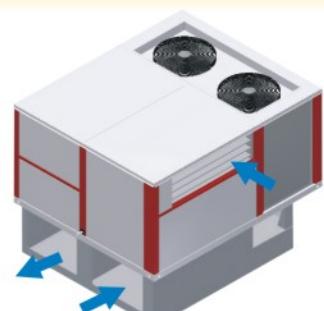
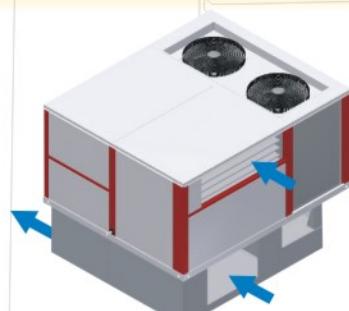
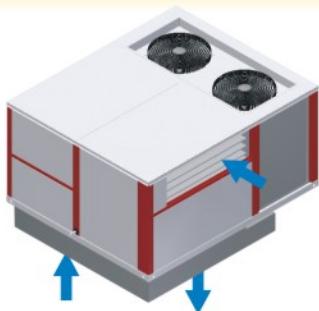
MODEL		URTP 055	URTP 070	URTP 090	URTP 110	URTP 140	URTP 180	URTP 230
Air Flow Rate	[m ³ /h]	5.500	7.000	9.000	11.000	14.000	18.000	23.000
Cooling Capacity *	[kW]	31,9	39,2	50,8	60,4	79,2	102,0	130,1
EER	-	2,80	2,82	2,82	2,86	2,91	2,89	2,82
[HP] Heating Capacity **	[kW]	35,5	43,8	56,1	66,7	86,9	111,7	143,1
COP	-	3,20	3,26	3,32	3,50	3,54	3,52	3,49
[Gas] Heating Capacity	[kW]	33,6	33,6	62,9	62,9	80	97,2	97,2
Modulating Capacity Control	%	20-100	20-100	20-100	20-100	20-100	20-100	20-100
[Hot Water] Heating Capacity **	[kW]	30,6	38,7	49,5	60,3	76,5	99	126
[Electric] Heating Capacity Low	[kW]	19	24	31	38	48	61	78
[Electric] Heating Capacity High	[kW]	34	43	55	67	85	110	140
Total Installed Power	[kW]	12,3	15,0	19,5	22,8	29,5	38,0	49,7
External Static Pressure	[Pa]	150	150	150	150	150	150	150
Dimensions (LxWxH)	[mm]	1858x1730 x1253	1858x1730 x1253	2334x1951 x1253	2334x1951 x1253	2926x2165 x1253	2926x2165 x1453	3853x2267 x1453

* Outdoor temperature 35°C DB/ Entering coil temperature 27°C DB/19°C WB

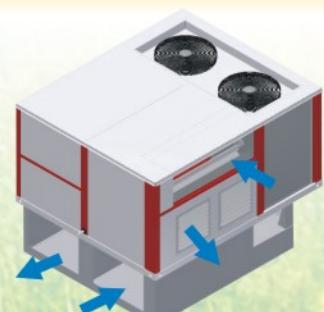
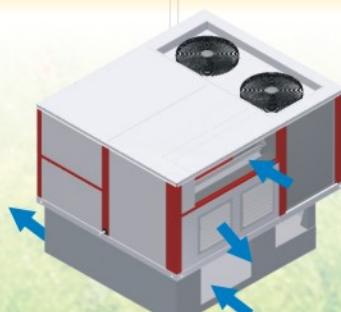
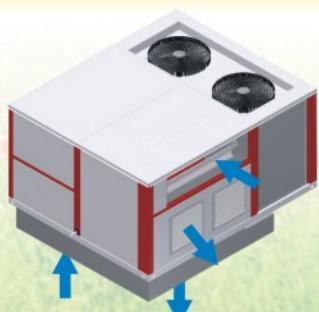
** Outdoor temperature 7°C DB, 6°C WB/ Entering coil temperature 20°C DB

CONFIGURATIONS

BSC



ECO





UNTES HEATING VENTILATING AIR CONDITIONING IND. & TRADE Co.

MANUFACTURING PLANT 1

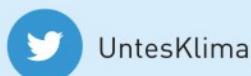
Head Office / Air Handling, Ventilation and Package Air Conditioning Systems /
Fan Coil Systems Production Plant

MANUFACTURING PLANT 2

Water Chiller and Heat Pump Systems Production Plant

EXPORT DIRECTORATE

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