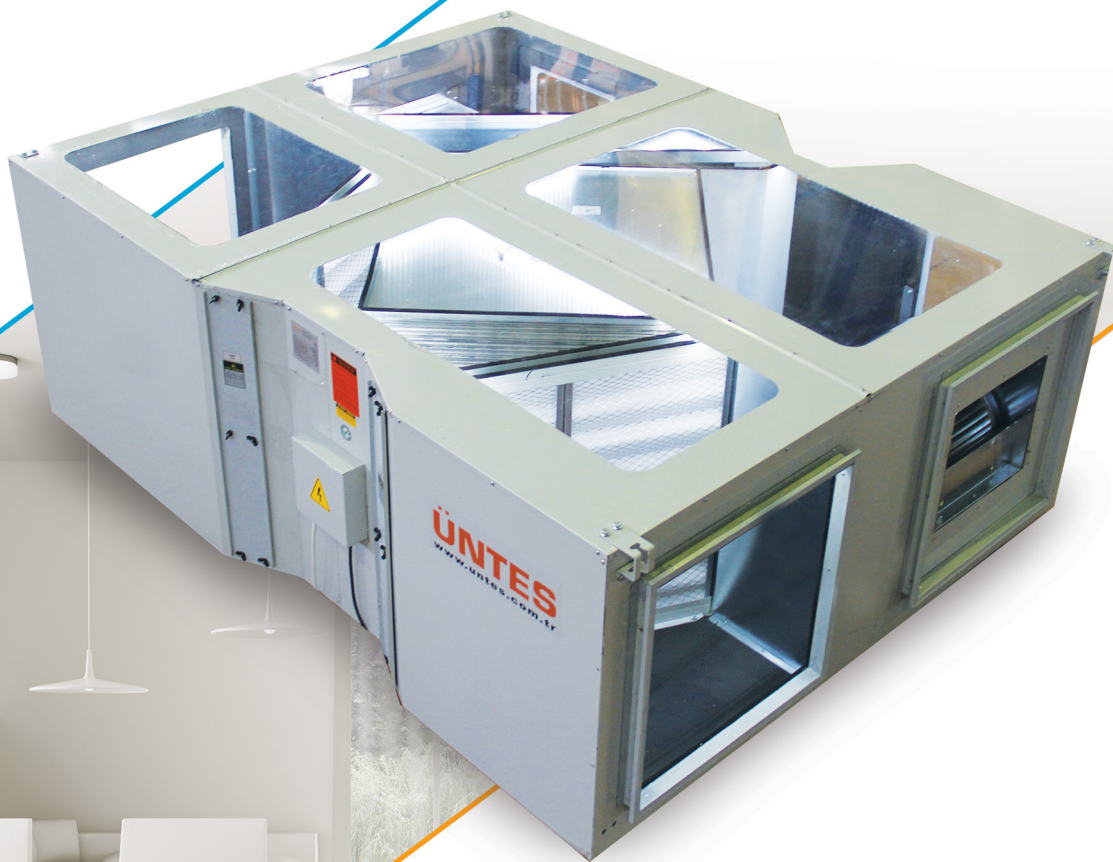


Heat Recovery Units

• ThermoFresh Series



COMFORT
↑
ZONE

ÜNTES® 
Building Trust since 1968

ThermoFresh Series

- **Uniform Airflow Enabling Low Sound Level and Low Energy Consumption Thanks to Aerodynamic Casing Design.**
- **9 Different Sizes up to 5500 m³/h Airflow Rate**
- **Highly Efficient Aluminium Plate Cross-Flow Heat Recovery System**
- **6 Staged Airflow Rate Control Powered by Highly Efficient Coupled AC Plug Fans or AC Centrifugal Fans with Low Sound Level**
- **Minimum Thermal Leak Achieved by 10 mm Elastomeric Rubber Foam Insulation with Low Thermal Conductivity and High Water Vapor Diffusion Resistance**
- **High Indoor Air Quality Resulted by Filtration Classes from ISO Coarse \geq %40 (G2) up to ISO ePM10 \geq %50 (M5)**



- **Minimum Energy Consumption Thanks to Advanced Automation Control System**
- **Remote Access to Unit with Wi-Fi Technology and Unit Control by Mobile Application**
- **Flexible 7-Day Weekly Program**
- **User Friendly Room Control Unit**



Technical Features

- **Structure and Insulation:** Corrosion resistant pre-painted galvanized sheet at the outer body. EPDM leak proof gaskets providing full air tightness at the connections of casing sheets. Tested and approved Class B fire-rated 10 mm thickness elastomeric rubber foam insulation with Low Thermal Conductivity and High Water Vapor Diffusion Resistance for thermal leak reduction.
- **Heat Exchanger:** Aluminum cross-flow plate heat exchanger.
- **Fan:** Highly efficient AC plug fans with aerodynamic backward curved blades or AC centrifugal fan with forward curved blade in order to guarantee low sound level.
- **Filter:** High air quality thanks to ISO Coarse \geq %40 (G2) up to ISO ePM10 \geq %50 (M5) filter classes. Long-life filters with 25 mm thickness.
- **Drain:** Double inclined electrostatic powder painted condensate drain pan, that is manufactured from galvanized sheet metal.
- **Maintenance:** Easy maintenance and access for fans, filters and heat recovery unit with the help of a compact design that enables easy disassembly and services doors.
- **Power Supply and Control:** Plug-and-play unit due to factory fitted controller able to communicate with Building Management System (BMS) via Modbus RTU communication protocol.

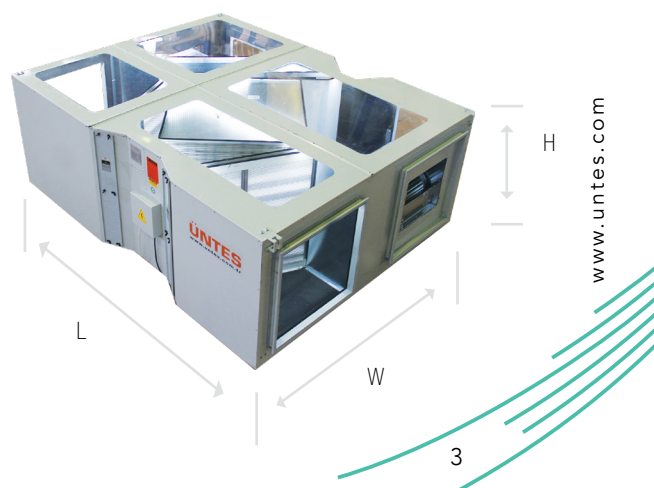
Options / Accessories

- Remote access to unit with Wi-Fi technology and unit control by mobile application.
- Medium filters or coarse metal filters at fresh air side. Coarse metal filter at exhaust air side.
- Low or high capacity electrical pre-heater.
- Low or medium capacity electrical post-heater or 3-stage high capacity electrical post-heater.
- Hot/chilled water coils compatible with district heating/cooling applications.
- Different capacity alternatives for direct expansion coils.
- Air quality control with duct type CO₂ sensor.
- Air quality preservation with filter clogging control.
- Proportional or on/off heating/cooling capacity control with 2-way or 3-way valve sets.
- IP67 electrical panel.
- Fire detection with smoke detector or digital input for external fire alarm.
- Bypass damper controlled by ON/OFF actuator.
- Fresh and/or exhaust air damper controlled by ON/OFF actuator.
- Advanced automation system for complex applications (MAXI Controller).
- Supply or return air temperature control.
- 24 VAC Transformer
- Return Air Humidity Sensor
- Relay Card



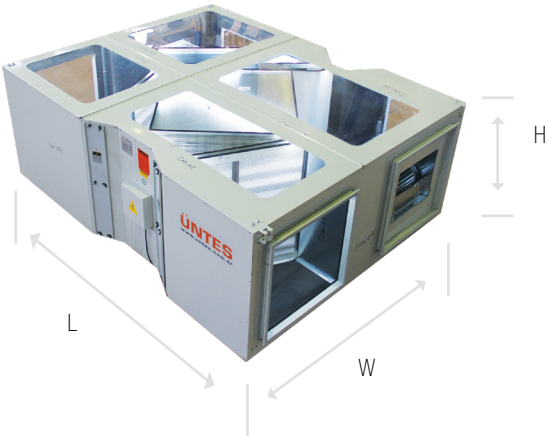
UTFS Series		050	075	105	160	200
Technical Specifications						
Nominal Airflow Rate	m³/h	500	750	1050	1600	2000
External Static Pressure	Pa	220	210	235	317	204
Power Supply	V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Exhaust Fan Nominal Motor Power	W	58	91	145	310	310
Supply Fan Nominal Motor Power	W	58	91	145	310	310
Fan Model	Backward Curved Direct Coupled AC Plug Fan					
Fresh Air Filter Class	%	ISO Coarse≥60% (G4)				
Exhaust Air Filter Class	%	ISO Coarse≥60% (G4)				
Cross-Flow Heat Recovery						
❶ Winter Efficiency	%	52,9	50,9	55,8	55	52,2
❷ Summer Efficiency	%	52,9	50,9	55,8	55	52,2
Sound						
❸ Sound Pressure Level	dB(A)	40	50	53	53	59
Dimensions						
Height	mm	423	429	477	531	576
Width	mm	782	891	1005	1177	1207
Lenght	mm	1017	1104	1244	1367	1399
❹ Weight	kg	51	59	80	107	118

- ❶ Winter conditions: Outdoor air temperature -5°C, 80% RH and indoor air temperature 22°C, 50% RH.
❷ Summer conditions: Outdoor air temperature 35°C, 40% RH and indoor air temperature 24°C, 50% RH.
❸ Free field sound pressure level at 1 m distance, 0 Pa external static pressure.
❹ Unit weight without accessories.



UTFS Series		250	320	410	500
Technical Specifications					
Nominal Airflow Rate	m³/h	2500	3200	4100	5000
External Static Pressure	Pa	180	232	234	150
Power Supply	V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Exhaust Fan Nominal Motor Power	W	373	550	750	1100
Supply Fan Nominal Motor Power	W	373	550	750	1100
Fan Model	Forward Curved Direct Coupled AC Centrifugal Fan				
Fresh Air Filter Class	%	ISO Coarse≥60% (G4)			
Exhaust Air Filter Class	%	ISO Coarse≥60% (G4)			
Cross-Flow Heat Recovery					
❶ Winter Efficiency	%	52	58,2	52	56,8
❷ Summer Efficiency	%	52	58,2	52	56,8
Sound					
❸ Sound Pressure Level	dB(A)	54	54	58	56
Dimensions					
Height	mm	681	711	761	811
Width	mm	1353	1428	1550	1800
Lenght	mm	1600	1700	1850	2100
❹ Weight	kg	149	175	225	288

- ❶ Winter conditions: Outdoor air temperature -5°C, 80% RH and indoor air temperature 22°C, 50% RH.
- ❷ Summer conditions: Outdoor air temperature 35°C, 40% RH and indoor air temperature 24°C, 50% RH.
- ❸ Free field sound pressure level at 1 m distance, 0 Pa external static pressure.
- ❹ Unit weight without accessories.





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Email: export@untes.com.tr
T+90 (312) 287 91 00 F+90 (312) 284 91 00

Manufacturing Plant-1

Air Handling & Ventilations Systems,
Fan Coil Systems
Packaged Air Conditioning Systems

Address: Istanbul Yolu 37.km
Kahramankazan, Ankara, Turkey

Manufacturing Plant-2

Water Chiller and Heat Pumps

Address: Istanbul Yolu 24.km Saraykoy, Ankara, Turkey

www.untes.com



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