

# Fan Coil Units

- UNFC Series – Ceiling Concealed Types
- UNFC Series – Cabinet Types



COMFORT  
ZONE



**ÜNTES**<sup>®</sup>  
Building Trust since 1968

# HOME COMFORT EVERYWHERE!

Untes, the HVAC expert, offers sustainable energy saving while bringing the most recent air conditioning technologies into the modern life. Green Line labeled fan coil units provides the comfort of home in all kinds of living environments by producing solutions and promoting sustainable systems in terms of energy productivity without sacrificing from comfort.

### Distinctive Technology

Untes fan coil units offers just-in-time delivery based on its lean production philosophy. Due to its unique design and the most recent manufacturing technology, fan coil units are low noise, compact, easy to install as well as having aesthetic appearance.

All capacity and electrical tests are carried out at Fan Coil Test and Research Laboratories according EN1397, ANSI-ASHRAE79, ANSI-AHRI440 and ANSI-AMCA210 standards.

- Ideal room temperature and indoor air quality for all seasons
- Wide and versatile production options
- Advanced electronic control options
- Low energy consumption and high comfort
- Outstanding safety and high quality



## Fan Coil Performance Test Laboratory & Research Center



“Each kW is Under Control!”



### Discover Innovative Fan Coil Test and Validation Laboratory!

Üntes Fan Coil Performance Test Laboratory and Research Center provides its customers and business collaborators the opportunity to eliminate all risks at the start-up and know unit performance at actual operating conditions in advance and test the limits of units under challenging conditions.

Due to tests carried out in the Research Center, working performance of units is measured extensively and fault management functions are optimized before the installation on site.



Eliminate all the risks at start up.

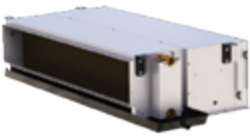


Know the unit operation at actual operating conditions.



Verify unit limits at severe operating conditions.

Series	Type	Version	Model	Connection
UNFC	<b>GTT:</b> Ceiling Concealed Type	<b>2A:</b> 2-Pipe Up to 60 Pa <b>4A:</b> 4-Pipe Up to 60 Pa <b>2M:</b> 2-Pipe with EC Motor up to 70 Pa <b>4M:</b> 4-Pipe with EC Motor up to 70 Pa	015~110	<b>L:</b> Left Connection <b>R:</b> Right Connection
	<b>GTA:</b> Ceiling Concealed Type			
	<b>GBT:</b> Ceiling Concealed Type (District Cooling)			
	<b>GBA:</b> Ceiling Concealed Type (District Cooling)			
	<b>KTP:</b> Cabinet Ceiling Type	<b>2C:</b> 2-Pipe <b>4C:</b> 4-Pipe <b>2E:</b> 2-Pipe with EC Motor <b>4E:</b> 4-Pipe with EC Motor		
	<b>KTT:</b> Cabinet Ceiling Type			
	<b>KDT:</b> Cabinet Floor Type			
	<b>KYT:</b> Cabinet Floor Type			
<b>GDT:</b> Floor Type without Cabinet				

			
<b>GTT - GBT:</b> Ceiling concealed type, rear inlet and front supply	<b>GTA - GBA:</b> Ceiling concealed type, bottom inlet and front supply	<b>KTP:</b> Cabinet ceiling type, bottom inlet and front supply	<b>KTT:</b> Cabinet ceiling type, rear inlet and front supply
			
<b>KDT:</b> Cabinet floor type, bottom inlet and top supply (Feet are optional)	<b>KYT:</b> Cabinet floor type, front inlet and top supply	<b>GDT:</b> Floor type without cabinet, bottom inlet and top supply	

\*GBT and GBA series are suitable for district cooling of GTT and GTA series.

## Option / Accessories

The images of options, which are offered, are as follows;

### UTH 0101 / 0111-A0



- Choice of Three Fan Speeds
- Fancoil On/Off
- Summer/Winter Selection
- Room Thermostat
- Mounting on Surface
- Touch Keypad
- Valve Control for 2 and 4 Pipe
- Hotel Card/Window Switch
- Weekly Programming
- Display Backlight
- Modbus RTU (UTH0110-A0)
- Remote Control(UTH0101-A0)
- Modbus RTU+Remote Control (UTH0111-A0)

### UTH 0101 / 0111-E0 (EC)



- EC Motor Control
- Fancoil On/Off
- Summer/Winter Selection
- Room Thermostat
- Mounting on Surface
- Touch Keypad
- Valve Control for 2 and 4 Pipe
- Hotel Card/Window Switch
- Weekly Programming
- Display Backlight
- Modbus RTU (optional)
- Remote Control suitable with UTH9100-00

### UTH9100-00 \*



- Mode Selection Key : Hot, Cold, Ventilation
- Up and Down Keys: Temperatures
- Fan Speed Key: High, Medium, Low
- Sleep Mode Key
- Timer Key
- Super Key: Enter High Speed State
- Power Key

\* with UTH 0101 / 0111 models

### UOT



- 3-speed fan control
- Fan coil On/Off
- Heating or Cooling mode
- Summer/ Winter operation selector
- Valve control for 2 pipes
- Valve control for 4 pipes (RAB31)

**RDF 510 - 530**



- 3-speed fan control
- Fan coil On/Off
- Heating or Cooling mode
- Summer/Winter operation selector
- Timer specification (530 Model)
- Automatic backlighting
- Flush Mounting
- Valve Control 2 Pipe (510 Model)
- Valve Control 4 pipe (530 Model)

**RDF 800**



- 3-speed fan control
- Touch screen
- Heating and cooling mode at the same time
- BMS ( Building Management System)
- Fan coil On/Off
- Summer/ Winter operation selector
- Operation timer
- Automatic backlighting
- Flush Mounting

**UTH0202 /212/ 232 -A1**



- Choice of Three Fan Speeds
- Fancoil On/Off
- Summer/Winter/Auto Mode Selection
- Room Thermostat
- Touch Keypad
- Valve Control for 2 and 4 Pipe
- Weekly Programming
- Display Backlight
- Modbus RTU (optional)
- External Temperature Sensor

**UTH0202 /212/ 232 -E1 (EC)**



- EC Motor Control
- Fancoil On/Off
- Summer/Winter/Auto Mode Selection
- Room Thermostat
- Touch Keypad
- Valve Control for 2 and 4 Pipe
- Weekly Programming
- Display Backlight
- Modbus RTU (optional)
- External Temperature Sensor

**VM: 2 & 3-way valve options**



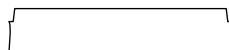
2 and 3- way valves are used for the purpose of thermostatic fluid control for the coils and are supplied loose or factory fitted. 3-way valves are available with 4-port option for the installation convenience.

**APK: Rear cover**



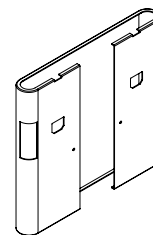
Used for covering the back of units in KDT and KYT types.

ALK: Lower cover



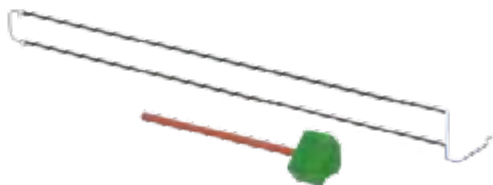
Used for covering the bottom of unit in KTP types.

**AYK: Foot**



Used for installing the unit to the floor in KDT types.

**ELCH: Additional Electrical Heaters**





For 2-Pipe systems. (GTT-GTA-GBT-GBA)

- Special design of electrical heaters which are ingrated to coil allows lower surfac temperatures with higher capacities.
- All electrical heaters are made of 304 quality Stainless steel and have halogen free cable connections.
- Option have integrated safety the mostat to prevent high surface temperatures which are resettable and already all cable connections are completed.
- Units have contactors (220-240 Vac,monophasic, 50 hz) and could be con trolled by standard room thermostats.
- All two pipe, ceiling concealed type UNFC series units can be equipped with electrical heaters.

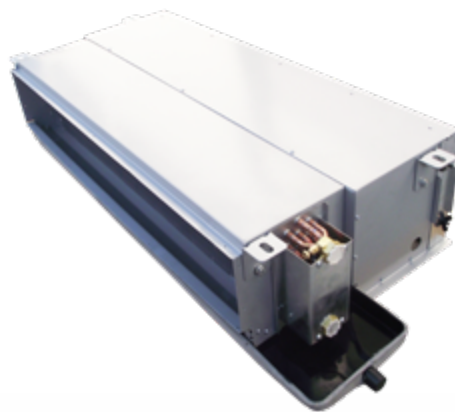
# UNFC Series

## Ceiling Concealed Type

 Cooling capacity: 1,13 kW - 13,62 kW

 Heating capacity: 2,43- 25,36 kW

- Ideal temperature and indoor air quality for all seasons
- Wide and versatile production options
- Advanced electronic control options
- Low energy consumption and high comfort
- Outstanding reliability and high quality
- Eurovent certified series
- Capacity testing facility at Fan Coil test laboratory



### Structural features

- Produced from high zinc ratio corrosion resistant galvanized sheet.
- High energy efficient and silent radial fans (230V-1ph-50Hz or Electronically Commutated BLDC Motor)
- Easy access for service and cleaning due to mesh filters.
- Specially designed waterproof terminal box are used for electrical connections.
- Coils are produced from high efficient, seamless copper pipe and aluminum fins. Each coil is installed in factory after test at 28 bar pressure.
- Special drip pan is used underneath the coil that prevents air leak and allows the transfer of condensed water into the drain pan.
- Drain pan is enameled with high protection specification and self-insulated.
- Additional drip pan, made up of ABS material, are used in order to prevent dripping at the coil and valve connection.

### Types

- **GTT** : Ceiling concealed type, rear inlet and front supply
- **GTA** : Ceiling concealed type, bottom inlet and front supply
- **GBT** : Ceiling Concealed Type (District Cooling)
- **GBA** : Ceiling Concealed Type (District Cooling)

### Versions

- **2A** : 2-Pipe Up to 60 Pa
- **4A** : 4-Pipe Up to 60 Pa
- **2M**: 2-Pipe with EC Motor up to 70 Pa
- **4M**: 4-Pipe with EC Motor up to 70 Pa

### Options / Accessories

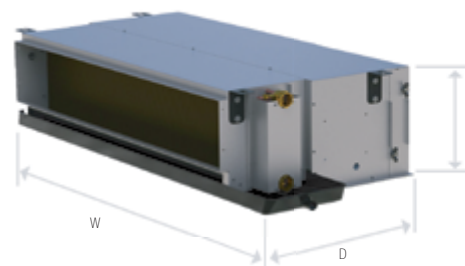
- Additional heating coil (for 4-Pipe systems)
- 2-way valves and actuators (Supplied loose)
- 3-way valves and actuators
- Room thermostat
- Digital room thermostat
- Electric heater (for 2-Pipe systems)



UNFC Series		GTT - GTA TYPES 2-PIPE											
		2A	015	020	025	030	035	040	050	060	070	080	100
<b>Technical Specifications</b>													
❶ Total Cooling Capacity	kW	1,92	2,56	2,95	3,79	4,78	5,26	5,94	6,97	8,02	8,94	10,65	12,45
❶ Sensible Cooling Capacity	kW	1,53	1,81	2,08	2,8	3,4	3,72	4,12	4,83	5,6	6,26	7,53	8,79
❷ Heating Capacity	kW	3,86	4,47	5,15	7,02	8,43	9,17	10,07	11,85	13,9	15,6	19,68	23
Airflow (High Speed)	m³/h	447	430	483	792	836	876	936	1109	1300	1474	1769	2097
Airflow (Medium Speed)	m³/h	361	346	374	627	670	708	746	920	1039	1226	1426	1784
Airflow (Low Speed)	m³/h	197	189	204	401	382	446	466	483	622	651	898	929
<b>Dimensions</b>													
GTT Unit (WxHxD)	mm	709	709	709	984	984	984	1101	1204	1359	1411	1771	1882
		238	238	238	238	238	238	238	238	238	238	238	238
		478	478	478	478	478	478	478	478	478	478	478	478
GTT With Package (WxHxD)	mm	735	735	735	1015	1015	1015	1150	1240	1455	1455	1790	1915
		260	260	260	260	260	260	260	260	260	260	260	260
		515	515	515	515	515	515	515	515	515	515	515	515
GTA Unit (WxHxD)	mm	709	709	709	984	984	984	1101	1204	1359	1411	1771	1882
		259	259	259	259	259	259	259	259	259	259	259	259
		470	470	470	470	470	470	470	470	470	470	470	470
GTA With Package (WxHxD)	mm	735	735	735	1015	1015	1015	1150	1240	1455	1455	1790	1915
		260	260	260	260	260	260	260	260	260	260	260	260
		515	515	515	515	515	515	515	515	515	515	515	515
Weight	kg	13,9	14,7	14,8	20,1	21,2	21,3	24,3	25,7	31,8	33	40,3	42,4
<b>Fluid Data</b>													
❶ Water Flowrate (Cooling)	l/h	338	446,7	515,3	662	833,3	917,1	1033,5	1216,4	1400,3	1563,4	1856,5	2174,5
❶ Water Side Pressure Drop	kPa	5,8	14,2	18,6	27	20,6	24,3	34,2	49,1	34,3	43,1	27,9	39
❷ Water Flowrate (Heating)	l/h	167,9	194,5	223,9	305,5	367,1	399,5	438,9	516	604,8	678,4	857,8	1001,7
❷ Water Side Pressure Drop	kPa	1,3	2,6	3,3	5,4	3,8	4,4	5,8	8,3	6	7,6	5,5	7,7
Water Content	l	0,75	1,05	1,05	1,06	1,52	1,52	1,75	1,89	2,18	2,26	2,83	3,03
<b>Sound Level ③</b>													
Sound Pressure Level (High)	dBA	38	38	44	44	44	45	44	48	47	48	47	49
Sound Pressure Level (Med)	dBA	34	35	41	40	41	41	40	43	45	47	43	47
Sound Pressure Level (Low)	dBA	24	28	33	31	31	35	34	35	36	39	37	38
<b>Installation Data</b>													
Coil In/Out Diameter	inch	3/4											
Drain Pipe Diameter	inch	3/4											
<b>Absorbed Power</b>													
Absorbed Power (Cooling) High/Medium/Low Speed	W	47/40/31	46/39/31	61/50/40	76/57/45	83/71/58	90/78/65	92/79/65	121/105/85	150/125/102	176/151/124	178/155/129	233/203/171
Absorbed Power (Heating) High/Medium/Low Speed	W	47/41/32	47/41/32	61/51/41	76/59/46	83/74/60	90/81/66	93/82/67	123/111/87	150/130/104	177/157/127	180/161/134	235/212/176
<b>Electric Heater Option ④</b>													
Electric Heater Capacity	kW	0,85	0,85	0,85	1,5	1,5	1,5	2,2	2,2	3,0	3,0	4,0	4,0
Electric Heater Input Current	A	3,7	3,7	3,7	6,5	6,5	6,5	9,6	9,6	13,0	13,0	17,4	17,4
Electric Heater Number of Stages		1											

\*All data given in the table is at 0 Pa external static pressure.

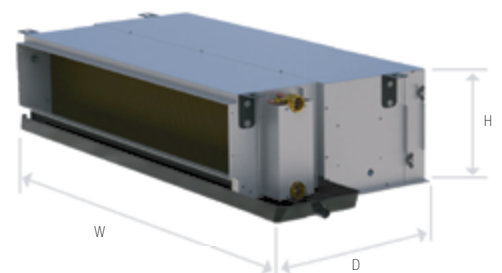
- ❶ Values are at high speed; 27 °C DB 50 % RH room conditions and 7/12 °C in/out water temperatures.
- ❷ Values are at high speed, 20 °C DB room conditions and 70/50 °C in/out temperatures.
- ❸ Sound pressure levels are measured at 1 mt. distance from the tested unit and Q: 1.
- ❹ All values are based on 230 Volt, 50 Hz electrical supply.



UNFC Series		GTT - GTA TYPES 4-PIPE											
		4A	015	020	025	030	035	040	050	060	070	080	100
<b>Technical Specifications</b>													
❶ Total Cooling Capacity	kW	1,82	2,45	2,77	3,56	4,53	4,91	5,6	6,63	7,49	8,36	9,98	11,72
❶ Sensible Cooling Capacity	kW	1,44	1,72	1,96	2,62	3,21	3,46	3,87	4,58	5,21	5,82	7,02	8,24
❷ Heating Capacity	kW	2,8	2,53	2,96	5,03	4,84	5,38	6,1	7,12	7,83	8,67	10,95	12,69
Airflow (High Speed)	m³/h	417	407	448	727	783	806	872	1043	1196	1357	1632	1943
Airflow (Medium Speed)	m³/h	334	326	352	577	633	662	704	888	970	1159	1336	1694
Airflow (Low Speed)	m³/h	183	179	191	371	363	421	443	460	585	615	849	885
<b>Dimensions</b>													
GTT Unit (WxHxD)	mm	709	709	709	984	984	984	1101	1204	1359	1411	1771	1882
		238	238	238	238	238	238	238	238	238	238	238	238
		478	478	478	478	478	478	478	478	478	478	478	478
GTT With Package (WxHxD)	mm	735	735	735	1015	1015	1015	1150	1240	1455	1455	1790	1915
		260	260	260	260	260	260	260	260	260	260	260	260
		515	515	515	515	515	515	515	515	515	515	515	515
GTA Unit (WxHxD)	mm	709	709	709	984	984	984	1101	1024	1359	1411	1771	1882
		259	259	259	259	259	259	259	259	259	259	259	259
		470	470	470	470	470	470	470	470	470	470	470	470
GTA With Package (WxHxD)	mm	735	735	735	1015	1015	1015	1150	1240	1455	1455	1790	1915
		260	260	260	260	260	260	260	260	260	260	260	260
		515	515	515	515	515	515	515	515	515	515	515	515
Weight	kg	15,2	17	17,7	21,5	23,3	22,3	25,8	27,4	33,6	34,5	42,6	45,6
<b>Fluid Data</b>													
❶ Water Flowrate (Cooling)	l/h	320,2	427,5	484,6	623,7	790,8	856,1	975,4	1156,9	1308,8	1461,2	1741,1	2046,8
❶ Water Side Pressure Drop	kPa	5,4	13,5	17,3	25	19,2	22,2	31,5	45,8	30,9	38,8	24,9	35,4
❷ Water Flowrate (Heating)	l/h	121	108,9	126,3	217,6	208,9	232,5	263,9	307,4	337,2	372,9	472,9	546,9
❷ Water Side Pressure Drop	kPa	2,4	2	2,6	9,5	8,8	10,7	15	21,3	4,7	5,8	10,6	14,5
Water Content (Cooling)	l	0,75	1,05	1,05	1,06	1,52	1,52	1,75	1,89	2,18	2,26	2,83	3,03
Water Content (Heating)	l	0,38	0,38	0,38	0,54	0,54	0,54	0,61	0,66	0,76	0,79	0,98	1,04
<b>Sound Level ❸</b>													
Sound Pressure Level (High)	dBA	38	38	44	44	44	45	44	47	44	48	47	49
Sound Pressure Level (Med)	dBA	37	35	41	40	41	41	40	43	41	47	43	44
Sound Pressure Level (Low)	dBA	27	26	32	27	29	33	32	35	34	37	35	37
<b>Installation Data</b>													
Coil In/ Out Diameter (Cooling Coil)	inch							3/4					
Coil In/ Out Diameter (Additional Heating Coil)	inch							1/2					
Drain Pipe Diameter	inch							3/4					
<b>Absorbed Power</b>													
Absorbed Power (Cooling) High/Medium/Low Speed	W	46/40/31	45/40/31	59/50/39	74/58/45	80/71/58	85/78/63	87/80/64	114/104/84	144/125/100	166/147/122	172/155/126	217/197/167
Absorbed Power (Heating) High/Medium/Low Speed	W	46/40/31	46/40/31	60/50/40	75/58/45	81/72/58	86/79/64	91/81/65	118/106/85	146/127/101	171/152/123	176/158/128	224/204/168

\*All data given in the table is at 0 Pa external static pressure.

- ❶ Values are at high speed, 27 °C DB 50 % RH room conditions and 7/12 °C in/out water temperatures.
- ❷ Values are at high speed, 20 °C DB room conditions and 70/50 °C in/out temperatures.
- ❸ Sound pressure levels are measured at 1 mt. distance from the tested unit and Q: 1.



UNFC Series	GTT - GTA TYPES 2-PIPE										
	2M	015	025	030	040	050	060	070	080	100	110
<b>Technical Specifications</b>											
❶ Total Cooling Capacity	kW	2,04	3,41	4,21	5,86	6,5	7,69	8,75	9,8	11,41	13,62
❶ Sensible Cooling Capacity	kW	1,64	2,46	3,16	4,22	4,57	5,39	6,21	6,96	8,19	9,75
❷ Heating Capacity	kW	4,08	6,01	7,84	10,35	11,06	13,17	15,16	17,13	20,94	25,2
Airflow (Turbo Speed)	m³/h	504	597	963	1042	1068	1285	1481	1702	1973	2430
Airflow (High Speed)	m³/h	481	533	932	976	1040	1170	1422	1549	1914	2212
Airflow (Medium Speed)	m³/h	410	450	812	827	922	1023	1249	1348	1665	1931
Airflow (Low Speed)	m³/h	244	260	550	522	654	694	810	897	1099	1286
Airflow (Silent)	m³/h	176	209	431	366	326	592	665	760	760	1076
<b>Dimensions</b>											
GTT Unit (WxHxD)	mm	709	709	984	984	1101	1204	1359	1411	1771	1882
		238	238	238	238	238	238	238	238	238	238
		478	478	478	478	478	478	478	478	478	478
GTT With Package (WxHxD)	mm	735	735	1015	1015	1150	1240	1455	1455	1790	1915
		260	260	260	260	260	260	260	260	260	260
		515	515	515	515	515	515	515	515	515	515
GTA Unit (WxHxD)	mm	709	709	984	984	1101	1204	1359	1411	1771	1882
		259	259	259	259	259	259	259	259	259	259
		470	470	470	470	470	470	470	470	470	470
GTA With Package (WxHxD)	mm	735	735	1015	1015	1150	1240	1455	1455	1790	1915
		260	260	260	260	260	260	260	260	260	260
		515	515	515	515	515	515	515	515	515	515
Weight	kg	13,8	14,6	20	21,1	24,0	25,6	24	25,6	32,1	42,3
<b>Fluid Data</b>											
❶ Water Flowrate (Cooling)	l/h	354,4	593,6	733,7	1021,5	1129,7	1342,6	1522,4	1710,4	1986,7	2383,2
❶ Water Side Pressure Drop	kPa	6,2	23,6	31,6	28,8	38,7	56,4	38,1	48,6	30,1	44
❷ Water Flowrate (Heating)	l/h	178	261,9	341,9	450,9	482,5	572,9	661,5	746,2	913,4	1096,5
❷ Water Side Pressure Drop	kPa	1,4	4,3	6,4	5,3	6,6	9,7	6,7	8,7	5,9	8,7
Water Content	l	0,75	1,05	1,06	1,52	1,75	1,89	2,18	2,26	2,83	3,03
<b>Sound Level ❸</b>											
Sound Pressure Level (High)	dBA	39	45	45	46	45	49	48	48	48	50
Sound Pressure Level (Med)	dBA	35	42	41	42	41	44	46	47	44	48
Sound Pressure Level (Low)	dBA	25	33	28	34	33	34	35	37	35	38
<b>Installation Data</b>											
Coil In/Out Diameter	inch	3/4									
Drain Pipe Diameter	inch	3/4									
<b>Absorbed Power</b>											
Absorbed Power (Cooling)	W	30/25/17	52/39/26	63/55/38	94/80/51	88/81/56	135/101	122/109	164/126/	164/149/	267/198/
Turbo/High/Medium/Low/Silent		7/4	9/6	13/8	19/16	25/15	70/26/18	77/30/19	89/36/25	100/41/28	136/50/36
Absorbed Power (Heating)	W	30/26/17	53/40/27	64/56/40	97/81/53	91/82/60	139/103	125/111	168/130/	168/152/	274/201/
Turbo/High/Medium/Low/Silent		7/5	9/6	13/8	19/12	25/16	73/26/19	80/31/20	93/36/26	105/42/23	144/50/37
Step Reference Signal - Turbo/High/Medium	V	10/8/6,5	10/8/6,5	10/8/6,5	10/8/6,5	10/8/6,5	10/8/6,5	10/7,9/6,5	10/8/6,5	10/8/6,5	10/8/6,5
Step Reference Signal - Low/Silent	V	3/2	3/2	3/2	3/2	3/2	3/2	3/1,9	2,9/1,9	3/2	3/2
<b>Electric Heater Option ❹</b>											
Electric Heater Capacity	kW	0,85	0,85	1,5	1,5	2,2	2,2	2,2	2,2	3,0	4,0
Electric Heater Input Current	A	3,7	3,7	6,5	6,5	9,6	9,6	9,6	9,6	13,0	17,4
Electric Heater Number of Stages		1									

\*All data given in the table is at 0 Pa external static pressure.

❶ Values are at turbo speed; 27 °C DB 50 % RH room conditions and 7/12 °C in/out water temperatures.

❷ Values are at turbo speed, 20 °C DB room conditions and 70/50 °C in/out temperatures.

❸ Sound pressure levels are measured at 1 mt. distance from the tested unit and Q: 1.

❹ All values are based on 230 Volt, 50 Hz electrical supply.

UNFC Series	GTT - GTA TYPES 4-PIPE										
	4M	015	025	030	040	050	060	070	080	100	110
<b>Technical Specifications</b>											
❶ Total Cooling Capacity	kW	1,92	3,24	3,92	5,48	6,12	7,29	8,19	9,22	10,68	12,83
❶ Sensible Cooling Capacity	kW	1,54	2,33	2,92	3,93	4,29	5,09	5,78	6,52	7,61	9,14
❷ Heating Capacity	kW	2,43	2,74	4,55	4,85	5,36	6,34	6,86	7,69	9,48	11,29
Airflow (Turbo Speed)	m³/h	462	554	860	945	980	1190	1346	1556	1792	2225
Airflow (High Speed)	m³/h	440	493	831	884	954	1082	1291	1413	1737	2023
Airflow (Medium Speed)	m³/h	373	413	718	745	842	943	1129	1224	1503	1760
Airflow (Low Speed)	m³/h	219	237	509	552	582	621	777	804	1130	1180
Airflow (Silent)	m³/h	159	191	367	489	522	525	687	728	959	1085
<b>Dimensions</b>											
GTT Unit (WxHxD)	mm	709	709	984	984	1101	1204	1359	1411	1771	1882
		238	238	238	238	238	238	238	238	238	238
		478	478	478	478	478	478	478	478	478	478
GTT With Package (WxHxD)	mm	735	735	1015	1015	1150	1240	1455	1455	1790	1915
		260	260	260	260	260	260	260	260	260	260
		515	515	515	515	515	515	515	515	515	515
GTA Unit (WxHxD)	mm	709	709	984	984	1101	1204	1359	1411	1771	1882
		259	259	259	259	259	259	259	259	259	259
		470	470	470	470	470	470	470	470	470	470
GTA With Package (WxHxD)	mm	735	735	1015	1015	1150	1240	1455	1455	1790	1915
		260	260	260	260	260	260	260	260	260	260
		515	515	515	515	515	515	515	515	515	515
Weight	kg	15,1	17,5	21,4	22,1	25,5	27,3	33,6	34,4	42,5	45,5
<b>Fluid Data</b>											
❶ Water Flowrate (Cooling)	l/h	334,2	563,8	682,6	955,6	1063,2	1273	1424,3	1608,6	1857,7	2243,9
❶ Water Side Pressure Drop	kPa	5,6	21,5	27,7	25,5	34,6	51,2	33,8	43,4	26,6	39,4
❷ Water Flowrate (Heating)	l/h	105,7	118,4	197,7	209,5	232	273	296,4	331,1	409,8	485,3
❷ Water Side Pressure Drop	kPa	2	2,4	8,3	9,2	12,4	17,8	3,8	4,8	8,5	12,2
Water Content (Cooling)	l	0,75	1,05	1,06	1,52	1,75	1,89	2,18	2,26	2,83	3,03
Water Content (Heating)	l	0,38	0,38	0,54	0,54	0,61	0,66	0,76	0,79	0,83	1,04
<b>Sound Level ❸</b>											
Sound Pressure Level (High)	dBA	39	44	44	45	44	47	44	49	47	49
Sound Pressure Level (Med)	dBA	38	42	42	43	40	47	42	48	42	46
Sound Pressure Level (Low)	dBA	28	33	29	35	42	39	35	39	35	39
<b>Installation Data</b>											
Coil In/ Out Diameter (Cooling Coil)	inch	3/4									
Coil In/ Out Diameter (Additional Heating Coil)	inch	1/2									
Drain Pipe Diameter	inch	3/4									
<b>Absorbed Power</b>											
Absorbed Power (Cooling)	W	28/26/18	48/36/25	58/50/36	85/72/47	81/74	125/92	112/100	150/115	150/137	246/178
Turbo/High/Medium/Low/Silent Speed		/7/4	/8/6	/12/7	/23/17	/54/22/16	/66/23/17	/73/29/22	/85/32/25	/95/46/30	/131/47/39
Absorbed Power (Cooling)	W	28/26/19	50/38/26	59/52/37	90/76/50	85/78/56	131/97	117/104	158/121	158/142	258/187
Turbo/High/Medium/Low/Silent Speed		/8/4	/9/6	/12/7	/14/7	/23/15	/70/25/18	/77/28/17	/88/34/24	/99/33/13	/137/48/33
Step Reference Signal - Turbo/High/Medium	V	10/8/6,5	10/8/6,5	10/8/6,5	10/8/6,5	10/8/6,5	10/8/6,5	10/7,9/6,5	10/8/6,5	10/8/6,5	10/8/6,5
Step Reference Signal - Low/Silent	V	3/2	3/2	3/2	3/2	3/2	3/2	3/1,9	2,9/1,9	3/2	3/2

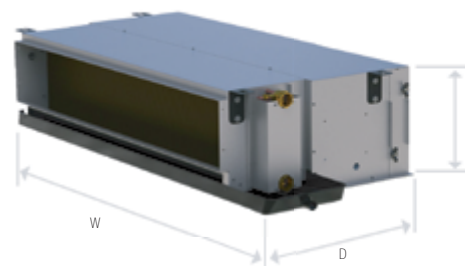
\*All data given in the table is at 0 Pa external static pressure.

- ❶ Values are at turbo speed; , 27 °C DB 50 % RH room conditions and 7/12 °C in/out water temperatures.
- ❷ Values are at turbo speed, 20 °C DB room conditions and 70/50 °C in/out temperatures.
- ❸ Sound pressure levels are measured at 1 mt. distance from the tested unit and Q: 1.

UNFC Series	GBT-GBA TYPES 2-PIPE												
	2A	015	020	025	030	035	040	050	060	070	080	100	110
<b>Technical Specifications</b>													
❶ Total Cooling Capacity	kW	1,47	2,02	2,34	2,94	3,46	3,85	4,44	5,24	5,74	6,43	7,12	8,48
❶ Sensible Cooling Capacity	kW	1,2	1,46	1,68	2,33	2,62	2,89	3,23	3,79	4,29	4,8	5,57	6,56
❷ Heating Capacity	kW	4,16	4,66	5,38	7,36	8,71	9,49	1,35	12,14	14,17	15,89	19,72	23
Airflow (High Speed)	m³/h	449	431	485	795	844	885	943	1115	1315	1490	1798	2125
Airflow (Medium Speed)	m³/h	363	347	376	629	675	714	751	923	1050	1235	1447	1799
Airflow (Low Speed)	m³/h	198	190	205	402	385	450	469	485	628	656	912	940
<b>Dimensions</b>													
GBT Unit (WxHxD)	mm	709	709	709	984	984	984	1101	1204	1359	1411	1771	1882
		238	238	238	238	238	238	238	238	238	238	238	238
		478	478	478	478	478	478	478	478	478	478	478	478
GBT With Package (WxHxD)	mm	735	735	735	1015	1015	1015	1150	1240	1455	1455	1790	1915
		260	260	260	260	260	260	260	260	260	260	260	260
		515	515	515	515	515	515	515	515	515	515	515	515
GBA Unit (WxHxD)	mm	709	709	709	984	984	984	1101	1204	1359	1411	1771	1882
		259	259	259	259	259	259	259	259	259	259	259	259
		470	470	470	470	470	470	470	470	470	470	470	470
GBA With Package (WxHxD)	mm	735	735	735	1015	1015	1015	1150	1240	1455	1455	1790	1915
		260	260	260	260	260	260	260	260	260	260	260	260
		515	515	515	515	515	515	515	515	515	515	515	515
Weight	kg	14,7	15,5	15,6	21,5	22,7	22,8	25,9	27,5	33,9	35,2	43,1	45,5
<b>Fluid Data</b>													
❶ Water Flowrate (Cooling)	l/h	144,4	197,1	228,6	287	337,7	374,8	431,6	510,7	561,1	629,2	694,6	829,9
❶ Water Side Pressure Drop	kPa	8,4	22	29	40,3	11,8	14,2	20,9	30,4	13,6	17,3	6,9	10,1
❷ Water Flowrate (Heating)	l/h	180,8	203,1	233,8	320,3	379,7	413,5	451	528,8	616,9	691,4	859,7	1001,3
❷ Water Side Pressure Drop	kPa	10,5	19,5	25,4	40,6	11,9	13,9	18,2	26	13	16,4	8,2	11,5
Water Content	l	0,75	1,05	1,05	1,06	1,52	1,52	1,75	1,89	2,17	2,26	2,83	3,03
<b>Sound Level ❸</b>													
Sound Pressure Level (High)	dBA	38	38	44	44	44	45	44	48	47	48	47	49
Sound Pressure Level (Med)	dBA	34	35	41	40	41	41	40	43	45	47	43	47
Sound Pressure Level (Low)	dBA	24	28	33	31	31	35	34	33	36	39	37	38
<b>Installation Data</b>													
Coil In/Out Diameter	inch	3/4											
Drain Pipe Diameter	inch	3/4											
<b>Absorbed Power</b>													
Absorbed Power (Cooling)	W	47/40/31	47/40/31	62/50/40	77/57/46	85/72/58	95/79/65	95/80/66	124/106/85	156/128/103	186/155/124	187/158/131	248/209/172
High/Medium/Low Speed													
Absorbed Power (Heating)	W	47/41/32	47/41/32	61/51/41	76/59/46	83/74/60	90/81/66	93/82/67	123/111/87	150/130/104	177/157/127	180/161/134	235/212/176
High/Medium/Low Speed													
<b>Electric Heater Option ❹</b>													
Electric Heater Capacity	kW	0,85	0,85	0,85	1,5	1,5	1,5	2,2	2,2	3,0	3,0	4,0	4,0
Electric Heater Input Current	A	3,7	3,7	3,7	6,5	6,5	6,5	9,6	9,6	13,0	13,0	17,4	17,4
Electric Heater Number of Stages		1											

\*\*All data given in the table is at 0 Pa external static pressure.

- ❶ Values are at high speed; , 24 °C DB 50 % RH room conditions and 5,5/14,5 °C in/out water temperatures.
- ❷ Values are at high speed, 20 °C DB room conditions and 70/50 °C in/out temperatures.
- ❸ Sound pressure levels are measured at 1 mt. distance from the tested unit and Q: 1.
- ❹ All values are based on 230 Volt, 50 Hz electrical supply."



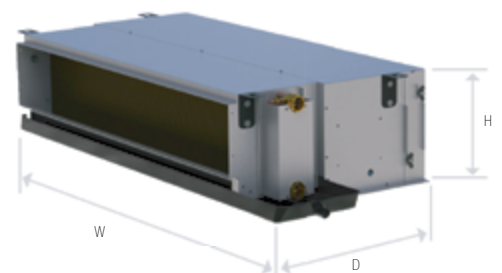
UNFC Series		GBT-GBA TYPES 4-PIPE											
		4A	015	020	025	030	035	040	050	060	070	080	100
<b>Technical Specifications</b>													
❶ Total Cooling Capacity	kW	1,39	1,94	2,2	2,77	3,28	3,6	4,2	5	5,37	6,02	6,65	7,98
❶ Sensible Cooling Capacity	kW	1,13	1,39	1,57	2,09	2,47	2,68	3,04	3,6	3,99	4,47	5,18	6,15
❷ Heating Capacity	kW	2,81	2,53	2,95	5,04	4,87	5,42	6,13	7,15	7,89	8,73	11,06	12,79
Airflow (High Speed)	m³/h	419	409	450	730	790	814	879	1049	1210	1371	1658	1969
Airflow (Medium Speed)	m³/h	336	328	354	580	638	667	708	891	979	1167	1354	1711
Airflow (Low Speed)	m³/h	184	180	192	373	366	425	445	462	590	619	862	894
<b>Dimensions</b>													
GBT Unit (WxHxD)	mm	709	709	709	984	984	984	1101	1204	1359	1411	1771	1882
		238	238	238	238	238	238	238	238	238	238	238	238
		478	478	478	478	478	478	478	478	478	478	478	478
GBT With Package (WxHxD)	mm	735	735	735	1015	1015	1015	1150	1240	1455	1455	1790	1915
		260	260	260	260	260	260	260	260	260	260	260	260
		515	515	515	515	515	515	515	515	515	515	515	515
GBA Unit (WxHxD)	mm	709	709	709	984	984	984	1101	1204	1359	1411	1771	1882
		259	259	259	259	259	259	259	259	259	259	259	259
		470	470	470	470	470	470	470	470	470	470	470	470
GBA With Package (WxHxD)	mm	735	735	735	1015	1015	1015	1150	1240	1455	1455	1790	1915
		260	260	260	260	260	260	260	260	260	260	260	260
		515	515	515	515	515	515	515	515	515	515	515	515
Weight	kg	16	17,8	16,5	22,9	24,8	23,8	27,4	29,2	35,7	36,7	45,4	48,7
<b>Fluid Data</b>													
❶ Water Flowrate (Cooling)	l/h	136,9	188,8	215,4	270,8	320,4	350,5	408	486,7	524,9	589,2	649,5	780,7
❶ Water Side Pressure Drop	kPa	7,8	21,2	27	37,4	11,1	13	19,3	28,4	12,3	15,6	6,2	9,1
❷ Water Flowrate (Heating)	l/h	119,3	109,2	126,7	218,1	210	234	265,1	308,6	339,6	375,3	477,6	551,5
❷ Water Side Pressure Drop	kPa	2,4	2	2,6	9,5	8,9	10,8	15,2	21,4	4,7	5,8	10,8	14,8
Water Content (Cooling)	l	0,75	1,05	1,05	1,06	1,52	1,52	1,75	1,89	2,17	2,26	2,83	3,03
Water Content (Heating)	l	0,38	0,38	0,38	0,54	0,54	0,54	0,61	0,66	0,76	0,79	0,98	1,04
<b>Sound Level ❸</b>													
Sound Pressure Level (High)	dBA	38	38	44	44	44	45	44	47	44	48	47	49
Sound Pressure Level (Med)	dBA	37	35	41	40	41	41	40	43	41	47	43	44
Sound Pressure Level (Low)	dBA	27	26	32	27	29	33	32	35	34	37	35	37
<b>Installation Data</b>													
Coil In/Out Diameter	inch	3/4											
Drain Pipe Diameter	inch	3/4											
<b>Absorbed Power</b>													
Absorbed Power (Cooling)	W	46/40/31	45/40/31	59/50/39	75/58/45	81/72/58	85/78/64	88/80/64	115/104/84	144/125/100	166/148/122	173/156/127	219/200/167
High/Medium/Low Speed													
Absorbed Power (Heating)	W	46/40/31	46/40/31	60/50/40	75/58/45	81/72/58	86/79/64	91/81/65	118/106/85	146/127/101	171/152/123	176/158/128	224/204/168
High/Medium/Low Speed													

\*\*All data given in the table is at 0 Pa external static pressure.

❶ Values are at high speed, 24 °C DB 50 % RH room conditions and 5,5/14,5 °C in/out water temperatures.

❷ Values are at high speed, 20 °C DB room conditions and 70/50 °C in/out temperatures.

❸ Sound pressure levels are measured at 1 mt. distance from the tested unit and Q: 1."



UNFC Series	GBA - GBT TYPES 2-PIPE										
	2M	015	025	030	040	050	060	070	080	100	110
<b>Technical Specifications</b>											
❶ Total Cooling Capacity	kW	1,6	2,78	3,34	4,25	4,99	5,71	6,44	6,98	7,87	9,19
❶ Sensible Cooling Capacity	kW	1,33	2,06	2,58	3,26	3,71	4,21	4,94	5,32	6,32	7,26
❷ Heating Capacity	kW	4,59	6,62	8,58	10,75	11,95	13,53	16,25	17,52	22,11	25,36
Airflow (Turbo Speed)	m³/h	536	638	1024	1056	1143	1296	1591	1725	2136	2473
Airflow (High Speed)	m³/h	483	570	938	990	1051	1180	1444	1570	1957	2252
Airflow (Medium Speed)	m³/h	413	480	817	839	932	1031	1269	1367	1704	1967
Airflow (Low Speed)	m³/h	246	278	555	538	663	702	828	914	1142	1321
Airflow (Silent)	m³/h	195	226	473	404	574	600	724	775	945	1111
<b>Dimensions</b>											
GBT Unit (WxHxD)	mm	709	709	984	984	1101	1204	1359	1411	1771	1882
		238	238	238	238	238	238	238	238	238	238
		478	478	478	478	478	478	478	478	478	478
GBT With Package (WxHxD)	mm	735	735	1015	1015	1150	1240	1455	1455	1790	1915
		260	260	260	260	260	260	260	260	260	260
		515	515	515	515	515	515	515	515	515	515
GBA Unit (WxHxD)	mm	709	709	984	984	1101	1204	1359	1411	1771	1882
		259	259	259	259	259	259	259	259	259	259
		470	470	470	470	470	470	470	470	470	470
GBA With Package (WxHxD)	mm	735	735	1015	1015	1150	1240	1455	1455	1790	1915
		260	260	260	260	260	260	260	260	260	260
		515	515	515	515	515	515	515	515	515	515
Weight	kg	14,6	15,4	21,4	22,6	25,6	27,4	33,9	34,3	43	45,4
<b>Fluid Data</b>											
❶ Water Flowrate (Cooling)	l/h	156,1	270,7	325,3	413,7	485,2	557	627,4	681,3	768,7	901,5
❶ Water Side Pressure Drop	kPa	9,4	38,7	49,1	16,5	24,8	34,1	15,9	19,1	7,9	11,1
❷ Water Flowrate (Heating)	l/h	200,4	288,3	374,2	468,6	521,2	589,1	708,2	763,3	964,1	1103,3
❷ Water Side Pressure Drop	kPa	12,3	36,2	51,7	16,8	22,8	30,4	15,9	18,8	9,7	13
Water Content	l	0,75	1,05	1,06	1,52	1,75	1,89	2,17	2,26	2,83	3,03
<b>Sound Level ③</b>											
Sound Pressure Level (High)	dBA	39	45	45	46	45	49	48	48	48	50
Sound Pressure Level (Med)	dBA	35	42	41	42	41	44	46	47	44	48
Sound Pressure Level (Low)	dBA	23	33	28	34	33	34	35	40	37	36
<b>Installation Data</b>											
Coil In/Out Diameter	inch	3/4									
Drain Pipe Diameter	inch	3/4									
<b>Absorbed Power</b>											
Absorbed Power (Cooling)	W	34/25/17	60/45/30	74/56/39	95/81/52	102/81	136/102	140/110	166/127	190/151	272/200
Turbo/High/Medium/Low/Silent Speed		/7/5	/11/7	/13/9	/19/15	/57/25/19	/70/26/18	/78/31/22	/90/37/25	/102/41/31	/139/51/36
Absorbed Power (Cooling)	W	34/26	61/46/30	75/56/40	97/81/53	104/82	139/103	142/111	169/130	192/152	275/201
Turbo/High/Medium/Low/Silent Speed		/17/7/5	/10/7	/13/10	/19/12	/60/25/19	/73/26/19	/80/31/22	/93/36/26	/105/42/28	/144/51/37
Step Reference Signal - Turbo/High/Medium	V	10/8/6,5	10/8/6,5	10/8/6,5	10/8/6,5	10/8/6,5	10/8/6,5	10/7,9/6,5	10/8/6,5	10/8/6,5	10/8/6,5
Step Reference Signal - Low/Silent	V	3/2	3/2	3/2	3/2	3/2	3/2	3/1,9	2,9/1,9	3/2	3/2
<b>Electric Heater Option ④</b>											
Electric Heater Capacity	kW	0,85	0,85	1,5	1,5	2,2	2,2	3,0	3,0	4,0	4,0
Electric Heater Input Current	A	3,7	3,7	6,5	6,5	9,6	9,6	13,0	13,0	17,4	17,4
Electric Heater Number of Stages		1									

\*\*All data given in the table is at 0 Pa external static pressure.

❶ Values are at turbo speed, 24 °C DB 50 % RH room conditions and 5,5/14,5°C in/out water temperatures.

❷ Values are at turbo speed, 20 °C DB room conditions and 70/50 °C in/out temperatures.

❸ Sound pressure levels are measured at 1 mt. distance from the tested unit and Q: 1.

❹ All values are based on 230 Volt, 50 Hz electrical supply."

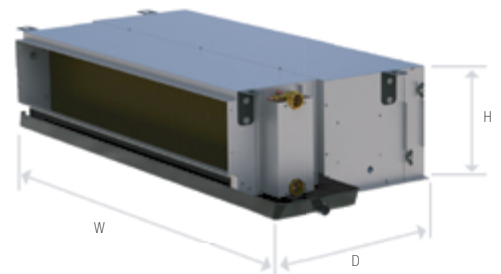
UNFC Series		GBA - GBT TYPES 4-PIPE									
		4M	015	025	030	040	050	060	070	080	100
<b>Technical Specifications</b>											
❶ Total Cooling Capacity	kW	1,52	2,65	3,12	3,98	4,71	5,43	6,04	6,58	7,36	8,65
❶ Sensible Cooling Capacity	kW	1,26	1,95	2,4	3,03	3,49	3,98	4,6	4,98	5,87	6,8
❷ Heating Capacity	kW	2,53	2,87	4,74	4,89	5,6	6,37	7,17	7,74	9,96	11,4
Airflow (Turbo Speed)	m³/h	492	594	916	957	1049	1200	1446	1576	1939	2261
Airflow (High Speed)	m³/h	442	529	835	895	963	1090	1309	1431	1772	2057
Airflow (Medium Speed)	m³/h	375	442	722	755	850	951	1145	1240	1537	1791
Airflow (Low Speed)	m³/h	221	253	506	557	589	628	767	813	1162	1182
Airflow (Silent)	m³/h	175	206	415	494	520	531	729	718	1033	1114
<b>Dimensions</b>											
GBT Unit (WxHxD)	mm	709	709	984	984	1101	1204	1359	1411	1771	1882
		238	238	238	238	238	238	238	238	238	238
		478	478	478	478	478	478	478	478	478	478
GBT With Package (WxHxD)	mm	735	735	1015	1015	1150	1240	1455	1455	1790	1915
		260	260	260	260	260	260	260	260	260	260
		515	515	515	515	515	515	515	515	515	515
GBA Unit (WxHxD)	mm	709	709	984	984	1101	1204	1359	1411	1771	1882
		259	259	259	259	259	259	259	259	259	259
		470	470	470	470	470	470	470	470	470	470
GBA With Package (WxHxD)	mm	735	735	1015	1015	1150	1240	1455	1455	1790	1915
		260	260	260	260	260	260	260	260	260	260
		515	515	515	515	515	515	515	515	515	515
Weight	kg	15,9	16,3	22,8	23,6	27,1	29,1	35,7	36,6	45,3	48,6
<b>Fluid Data</b>											
❶ Water Flowrate (Cooling)	l/h	147,7	258,2	304,1	387,2	458,1	529,4	588,3	641,4	718,1	848,6
❶ Water Side Pressure Drop	kPa	8,5	35,5	43,5	14,6	22,4	31,1	14,2	17,2	7	10
❷ Water Flowrate (Heating)	l/h	110,1	123,5	205,5	211,1	242	274,3	309,7	333,6	430,1	4090,1
❷ Water Side Pressure Drop	kPa	2,1	2,6	8,9	9,4	13,4	18	4,2	4,9	9,3	12,4
Water Content (Cooling)	l	0,75	1,05	1,06	1,52	1,75	1,89	2,17	2,26	2,83	3,03
Water Content (Heating)	l	0,38	0,38	0,54	0,54	0,61	0,66	0,76	0,79	0,98	1,04
<b>Sound Level ❸</b>											
Sound Pressure Level (High)	dB(A)	39	44	44	45	44	47	44	48	47	49
Sound Pressure Level (Med)	dB(A)	38	42	42	43	42	47	42	47	45	46
Sound Pressure Level (Low)	dB(A)	28	33	29	33	34	39	35	39	37	39
<b>Installation Data</b>											
Coil In/Out Diameter	inch	3/4									
Drain Pipe Diameter	inch	3/4									
<b>Absorbed Power</b>											
Absorbed Power (Cooling)	W	32/26/18	56/42/28	68/50/36	86/73/48	93/75/54	126/93	128/101	152/116	173/139	250/181
Turbo/High/Medium/Low/Silent Speed		/7/4	/9/7	/12/8	/22/16	/22/17	/66/23/17	/74/28/24	/85/33/24	/96/47/34	/133/46/39
Absorbed Power (Cooling)	W	32/26/19	58/43/28	69/52/37	90/76/50	98/78/56	131/97	133/104	158/121	179/142	258/1887
Turbo/High/Medium/Low/Silent Speed		/8/4	/9/7	/12/9	/14/7	/23/18	/70/25/18	/77/28/19	/88/34/24	/99/34/17	/137/48/33
Step Reference Signal - Turbo/High/Medium	V	10/8/6,5	10/8/6,5	10/8/6,5	10/8/6,5	10/8/6,5	10/8/6,5	10/7,9/6,5	10/8/6,5	10/8/6,5	10/8/6,5
Step Reference Signal - Low/Silent	V	3/2	3/2	3/2	3/2	3/2	3/2	3/1,9	2,9/1,9	3/2	3/2

\*\*All data given in the table is at 0 Pa external static pressure.

❶ Values are at turbo speed; 24 °C DB 50 % RH room conditions and 5,5/14,5°C in/out water temperatures.

❷ Values are at turbo speed, 20 °C DB room conditions and 70/50 °C in/out temperatures.



❸ Sound pressure levels are measured at 1 mt. distance from the tested unit and Q: 1."





# UNFC Series

## Cabinet Types

-  Cooling capacity: 1,78 - 12,33 kW
-  Heating capacity: 1,78 - 20,23 kW

- Ideal temperature and indoor air quality for all seasons
- Low energy consumption
- Advanced electronic control options
- Maximum energy efficiency and minimum sound
- Compliance with eco design requirements
- Eurovent certified series



### Structural features

- Produced from high zinc ratio corrosion resistant galvanized sheet and painted cabinet sheet with different color options.
- High energy efficient and silent radial fans (230V-1ph-50Hz or Electronically Commutated BLDC Motor)
- Easy access for service and cleaning due to mesh filters
- Specially designed waterproof terminal box are used for electrical connections.
- Coils are produced from high efficient, seamless copper pipe and aluminum fins. Each coil is installed in factory after test at 28 bar pressure.
- Special drip pan is used underneath the coil that prevents air leak and allows the transfer of condensed water into the drain pan.
- Drain pan is enameled with high protection specification and self-insulated.
- Additional drip pan, made up of ABS material, are used in order to prevent dripping at the coil and valve connection.

### Types

- **KTP** : Cabinet ceiling type, bottom inlet and front supply
- **KTT** : Cabinet ceiling type, rear inlet and front supply
- **KDT** : Cabinet floor type, bottom inlet and top supply (Feet are optional)
- **KYT** : Cabinet floor type, front inlet and top supply
- **GDT** : Floor type without cabinet, bottom inlet and top supply

### Versions

- **2C** : 2-Pipe
- **4C** : 4-Pipe
- **2E** : 2-Pipe with EC Motor
- **4E** : 4-Pipe with EC Motor

### Options / Accessories

- Additional heating coil for 4-Pipe systems
- 2-way valves and actuators (Supplied loose)
- 3-way valves and actuators
- Room thermostat
- Digital room thermostat

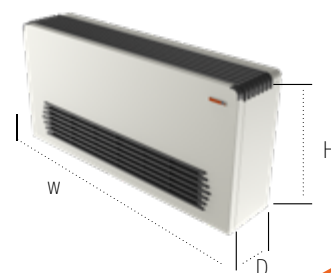


UNFC Series		KDT - KYT - KTP - KTT - GDT TYPES 2-PIPE											
		2C	015	020	025	030	035	040	050	060	070	080	100
<b>Technical Specifications</b>													
❶ Total Cooling Capacity	kW	1,51	2,04	2,68	3,29	4,02	4,66	5,42	6,37	7,34	8,25	9,4	10,88
❶ Sensible Cooling Capacity	kW	1,16	1,4	1,87	2,38	2,77	3,25	3,64	4,53	5,04	5,71	6,38	7,46
❷ Heating Capacity	kW	2,96	3,39	4,65	5,96	6,73	7,97	8,68	11,3	12,37	14,12	15,52	18,33
Airflow (High Speed)	m³/h	335	310	449	675	632	773	789	1113	1151	1349	1437	1751
Airflow (Medium Speed)	m³/h	258	238	352	530	498	626	623	924	920	996	1146	1421
Airflow (Low Speed)	m³/h	145	134	185	344	321	358	393	486	553	639	734	897
<b>Dimensions</b>													
KDT Unit (WxHxD)	mm	825	825	825	1100	1100	1100	1375	1375	1650	1650	1925	1925
		536	536	536	536	536	536	536	536	536	536	536	536
		240	240	240	240	240	240	240	240	240	240	240	240
KDT With Package (WxHxD)	mm	885	885	885	1145	1145	1145	1405	1405	1695	1695	1955	1955
		560	560	560	560	560	560	560	560	560	560	560	560
		250	250	250	250	250	250	250	250	250	250	250	250
GDT Unit (WxHxD)	mm	647	647	647	907	907	907	1167	1167	1427	1427	1687	1687
		513	513	513	513	513	513	513	513	513	513	513	513
		221	221	221	221	221	221	221	221	221	221	221	221
GDT With Package (WxHxD)	mm	880	880	880	1140	1140	1140	1400	1400	1690	1690	1950	1950
		570	570	570	570	570	570	570	570	570	570	570	570
		260	260	260	260	260	260	260	260	260	260	260	260
GDT Unit Weight	kg	14,5	15	15	20,5	21,5	21,5	26	26,5	34	34	40	40
KGT Unit Weight	kg	20,5	21	21	27,7	28,7	28,7	34,5	35	43,8	43,8	51	51
GDT Unit With Package Weight	kg	16,1	16,6	16,6	22,5	23,5	23,5	28,4	28,9	36,9	36,9	43,2	43,2
KGT Unit With Package Weight	kg	22,1	22,7	22,7	29,7	30,7	30,7	36,9	37,4	46,7	46,7	54,2	54,2
<b>Fluid Data</b>													
❶ Water Flowrate (Cooling)	l/h	264,3	354,6	469,7	574,5	698,2	812,4	941,1	1112,3	1277,7	1438,4	1636,3	1849,9
❶ Water Side Pressure Drop	kPa	4,4	11,2	18,8	25,1	17,7	23,2	38,2	14,5	22,1	27,5	39,7	51,9
❷ Water Flowrate (Heating)	l/h	128,9	147,9	202	259,8	293,6	347,3	378,9	491,9	539,1	615,1	677,7	799
❷ Water Side Pressure Drop	kPa	1	1,8	3,3	4,8	3	4	5,9	2,7	3,7	4,7	6,5	8,7
Water Content (Cooling)	l	0,86	1,19	1,19	1,22	1,73	1,73	2,28	2,28	2,83	2,83	3,37	3,37
<b>Sound Level ③</b>													
Sound Pressure Level (High)	dBA	34	35	42	38	36	43	40	46	46	48	46	48
Sound Pressure Level (Med)	dBA	32	33	38	36	35	40	37	44	45	46	42	47
Sound Pressure Level (Low)	dBA	21	23	28	29	29	33	30	33	34	35	34	39
<b>Installation Data</b>													
Coil In/Out Diameter	inch	3/4											
Drain Pipe Diameter	mm	20											
<b>Absorbed Power</b>													
Absorbed Power (Cooling)	W	32/27/22	31/26/22	59/46/35	58/50/41	57/49/41	76/66/56	73/58/43	116/102/82	115/91/73	145/120/98	142/109/86	172/150/124
High/Medium/Low Speed													
Absorbed Power (Heating)		32/28/22	31/28/22	59/48/35	58/51/41	57/50/41	77/68/56	73/57/43	118/105/83	115/94/73	145/126/99	142/112/86	173/154/124
High/Medium/Low Speed													

❶ Values are at high speed; 27 °C DB 50 % RH room conditions and 7/12 °C in/out water temperatures.

❷ Values are at high speed, 20 °C DB room conditions and 70/50 °C in/out temperatures.

❸ Sound pressure levels are measured at 1 mt. distance from the tested unit and Q: 1.

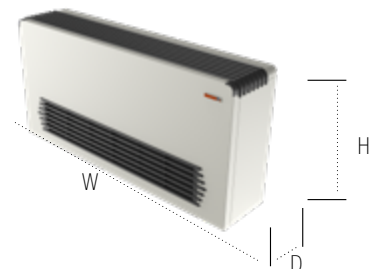


UNFC Series		KDT - KYT - KTP - KTT - GDT TYPES 4-PIPE											
		4C	015	020	025	030	035	040	050	060	070	080	100
<b>Technical Specifications</b>													
❶ Total Cooling Capacity	kW	1,42	1,92	2,54	3,14	3,81	4,38	5,17	6,11	6,97	7,81	8,88	10,26
❶ Sensible Cooling Capacity	kW	1,09	1,31	1,76	2,25	2,61	3,04	3,46	4,32	4,77	5,17	6,11	6,97
❷ Heating Capacity	kW	1,66	1,59	2,03	3,35	3,24	3,66	4,37	5,43	5,79	6,39	5,39	8,23
Airflow (High Speed)	m³/h	309	288	417	625	589	711	745	1051	1076	1254	1336	1618
Airflow (Medium Speed)	m³/h	237	221	329	494	469	586	591	897	862	938	1073	1336
Airflow (Low Speed)	m³/h	134	125	174	320	302	338	374	465	524	607	694	852
<b>Dimensions</b>													
KDT Unit (WxHxD)	mm	825	825	825	1100	1100	1100	1375	1375	1650	1650	1925	1925
		536	536	536	536	536	536	536	536	536	536	536	536
		240	240	240	240	240	240	240	240	240	240	240	240
KDT With Package (WxHxD)	mm	885	885	885	1145	1145	1145	1405	1405	1695	1695	1955	1955
		560	560	560	560	560	560	560	560	560	560	560	560
		250	250	250	250	250	250	250	250	250	250	250	250
GDT Unit (WxHxD)	mm	647	647	647	907	907	907	1167	1167	1427	1427	1687	1687
		513	513	513	513	513	513	513	513	513	513	513	513
		221	221	221	221	221	221	221	221	221	221	221	221
GDT With Package (WxHxD)	mm	880	880	880	1140	1140	1140	1400	1400	1690	1690	1950	1950
		570	570	570	570	570	570	570	570	570	570	570	570
		260	260	260	260	260	260	260	260	260	260	260	260
GDT Unit Weight	Kg	16	16,5	16,5	22,5	23,5	23,5	28	28,5	36	36	43	43
KGT Unit Weight	Kg	22	22,5	22,5	29,7	30,7	30,7	36,5	37	45,8	45,8	54	54
GDT Unit With Package Weight	Kg	17,6	18,1	18,1	24,5	25,5	25,5	30,4	30,9	38,9	38,9	46,2	46,2
KGT Unit With Package Weight	kg	23,6	24,1	24,1	31,7	32,7	32,7	38,9	39,4	48,7	48,7	57,2	57,2
<b>Fluid Data</b>													
❶ Water Flowrate (Cooling)	l/h	248,8	335,1	444,3	547	662,3	763,3	898,4	1065,7	1214,5	1363,4	1546,7	1787,3
❶ Water Side Pressure Drop	kPa	3,9	9,9	16,9	22,8	16	20,7	35,1	13,5	20,1	24,8	35,9	46,5
❷ Water Flowrate (Heating)	l/h	71,8	68,6	86,8	145,1	140	158	189,3	234,3	249,7	275,1	232,9	355,2
❷ Water Side Pressure Drop	kPa	0,9	0,9	1,4	4,7	4,4	5,5	9,6	14,3	3,2	3,8	12,8	6,9
Water Content (Cooling)	l	0,86	1,19	1,19	1,22	1,73	1,73	2,28	2,28	2,83	2,83	3,37	3,37
Water Content (Heating)	l	0,35	0,35	0,35	0,5	0,5	0,5	0,64	0,64	0,79	0,79	0,93	0,93
<b>Sound Level ❸</b>													
Sound Pressure Level (High)	dBA	35	36	44	41	47	44	41	48	47	49	44	47
Sound Pressure Level (Med)	dBA	31	33	38	37	36	40	37	46	46	47	43	46
Sound Pressure Level (Low)	dBA	20	24	28	29	29	33	31	35	35	36	35	38
<b>Installation Data</b>													
Coil In/ Out Diameter (Cooling Coil)	inch	3/4											
Coil In/ Out Diameter (Additional Heating Coil)	inch	1/2											
Drain Pipe Diameter	mm	20											
<b>Absorbed Power</b>													
Absorbed Power (Cooling) High/Medium/ Low Speed	W	31/27/22	30/27/22	57/47/35	57/50/40	56/48/40	73/66/55	72/56/43	111/100 /81	113/93 /73	141/124 /97	140/110 /85	164/148 /123
Absorbed Power (Heating) High/Medium/ Low Speed	W	31/28/22	31/27/22	58/47/35	57/50/41	56/50/40	74/66/55	73/56/43	113/102 /82	113/93 /73	143/125 /98	140/110 /85	166/151 /123

❶ Values are at high speed, 27 °C DB 50 % RH room conditions and 7/12 °C in/out water temperatures.

❷ Values are at high speed, 20 °C DB room conditions and 70/50 °C in/out temperatures.

❸ Sound pressure levels are measured at 1 mt. distance from the tested unit and Q: 1.



UNFC Series		KDT - KYT - KTP - KTT - GDT TYPES 2-PIPE							
		2E	015	025	030	040	050	060	080
<b>Technical Specifications</b>									
❶ Total Cooling Capacity	kW	1,73	3,21	3,61	5,25	6,03	7,21	9,27	12,23
❶ Sensible Cooling Capacity	kW	1,34	2,26	2,61	3,67	4,06	5,14	6,45	8,41
❷ Heating Capacity	kW	3,28	5,45	6,33	8,81	9,41	12,61	15,52	20,23
Airflow (Turbo Speed)	m³/h	361	513	683	821	818	1191	1424	1856
Airflow (High Speed)	m³/h	329	440	646	747	761	1084	1313	1723
Airflow (Medium Speed)	m³/h	253	340	491	592	581	873	940	1355
Airflow (Low Speed)	m³/h	143	177	325	332	363	441	580	772
Airflow (Silent)	m³/h	118	134	312	312	329	412	539	709
<b>Dimensions</b>									
KDT Unit (WxHxD)	mm	825	825	1100	1100	1375	1375	1650	1925
		536	536	536	536	536	536	536	536
		240	240	240	240	240	240	240	240
KDT With Package (WxHxD)	mm	885	885	1145	1145	1405	1405	1695	1955
		560	560	560	560	560	560	560	560
		250	250	250	250	250	250	250	250
GDT Unit (WxHxD)	mm	647	647	907	907	1167	1167	1427	1687
		513	513	513	513	513	513	513	513
		221	221	221	221	221	221	221	221
GDT With Package (WxHxD)	mm	880	880	1140	1140	1400	1400	1690	1950
		570	570	570	570	570	570	570	570
		260	260	260	260	260	260	260	260
GDT Unit Weight	kg	14,5	15	20,5	21,5	26	26,5	34	40
KGT Unit Weight	kg	20,5	21	27,7	28,7	34,5	35	43,8	51
GDT Unit With Package Weight	kg	16,1	16,6	22,5	23,5	28,4	28,9	36,9	43,2
KGT Unit With Package Weight	kg	22,1	22,7	29,7	30,7	36,9	37,4	46,7	54,2
<b>Fluid Data</b>									
❶ Water Flowrate (Cooling)	l/h	300,2	557,8	625,3	912,8	1042,3	1258,1	1611,7	2127,7
❶ Water Side Pressure Drop	kPa	5,2	24,2	27,2	26,9	42,7	16,9	31,1	58,9
❷ Water Flowrate (Heating)	l/h	143,7	237,7	276,8	384,4	411,9	549	677,3	882,4
❷ Water Side Pressure Drop	kPa	1,1	4,2	5	4,5	6,3	3	5,2	9,6
Water Content (Cooling)	l	0,86	1,19	1,22	1,73	2,28	2,28	2,83	3,37
<b>Sound Level ❸</b>									
Sound Pressure Level (High)	dBA	33	41	37	42	39	45	47	47
Sound Pressure Level (Med)	dBA	31	37	35	39	36	43	45	46
Sound Pressure Level (Low)	dBA	20	27	28	32	29	32	34	38
<b>Installation Data</b>									
Coil In/Out Diameter	inch	3/4							
Drain Pipe Diameter	mm	20							
<b>Absorbed Power</b>									
Absorbed Power (Cooling)	W	17/14/9	42/30/17	38/3/17	68/53/32	48/40/21	124/94	120/97	166/138
Turbo/High/Medium/Low/Silent Speed		/5/4	/8/3	/9/5	/9/6	/11/6	/54/13/8	/47/17/13	/79/26/16
Absorbed Power (Cooling)	W	17/14/9	43/31/19	38/30/17	70/54/32	49/41/22	127/96	123/99	172/141
Turbo/High/Medium/Low/Silent Speed		/4/4	/7/3	/8/5	/10/6	/10/6	/55/12/8	/47/20	/80/26
Step Reference Signal - Turbo/High/Medium	V	10/8,1/5,9	10/7,9/6,2	10/8,1/6,0	10/8,1/6,3	10/8,1/5,9	10/8,2/6,5	10/8,2/5,9	10/8,0/6,0
Step Reference Signal - Low/Silent	V	3,2/2,6	3,3/2,4	3,3/2,8	3/2,6	3,1/2,6	3/2,5	3,4/2,7	3/2,0

❶ Values are at high speed, 27 °C DB 50 % RH room conditions and 7/12 °C in/out water temperatures.

❷ Values are at high speed, 20 °C DB room conditions and 70/50 °C in/out temperatures.

❸ Sound pressure levels are measured at 1 mt. distance from the tested unit and Q: 1.

UNFC Series	KDT - KYT - KTP - KTT - GDT TYPES 4-PIPE								
	4E	015	025	030	040	050	060	080	110
<b>Technical Specifications</b>									
❶ Total Cooling Capacity	kW	1,58	2,98	3,23	4,78	5,55	6,74	8,56	11,25
❶ Sensible Cooling Capacity	kW	1,22	2,09	2,32	3,32	3,72	4,78	5,92	7,69
❷ Heating Capacity	kW	1,78	2,27	3,37	3,88	4,55	5,87	6,78	8,8
Airflow (Turbo Speed)	m³/h	319	463	582	722	736	1085	1276	1653
Airflow (High Speed)	m³/h	289	394	540	655	682	986	1174	1530
Airflow (Medium Speed)	m³/h	223	304	451	516	504	788	823	1190
Airflow (Low Speed)	m³/h	126	159	258	283	308	371	484	305
Airflow (Silent)	m³/h	104	120	249	277	280	352	460	292
<b>Dimensions</b>									
KDT Unit (WxHxD)	mm	825	825	1100	1100	1375	1375	1650	1925
		536	536	536	536	536	536	536	536
		240	240	240	240	240	240	240	240
KDT With Package (WxHxD)	mm	885	885	1145	1145	1405	1405	1695	1955
		560	560	560	560	560	560	560	560
		250	250	250	250	250	250	250	250
GDT Unit (WxHxD)	mm	647	647	907	907	1167	1167	1427	1687
		513	513	513	513	513	513	513	513
		221	221	221	221	221	221	221	221
GDT With Package (WxHxD)	mm	880	880	1140	1140	1400	1400	1690	1950
		570	570	570	570	570	570	570	570
		260	260	260	260	260	260	260	260
GDT Unit Weight	Kg	16	16,5	22,5	23,5	28	28,5	36	43
KGT Unit Weight	Kg	22	22,5	29,7	30,7	36,5	37	45,8	54
GDT Unit With Package Weight	Kg	17,6	18,1	24,5	25,5	30,4	30,9	38,9	46,2
KGT Unit With Package Weight	kg	23,6	24,1	31,7	32,7	38,9	39,4	48,7	57,2
<b>Fluid Data</b>									
❶ Water Flowrate (Cooling)	l/h	274,6	517,3	560,6	831,2	960,6	1176,1	1487,6	1955,4
❶ Water Side Pressure Drop	kPa	4,4	21	22,3	22,6	36,8	14,9	26,8	50,5
❷ Water Flowrate (Heating)	l/h	77,4	98	146,5	167,9	197,9	252,9	293,4	379,9
❷ Water Side Pressure Drop	kPa	1	1,6	4,5	5,7	9,6	15	3,9	7,1
Water Content (Cooling)	l	0,86	1,19	1,22	1,73	2,28	2,28	2,83	3,37
Water Content (Heating)	l	0,35	0,35	0,5	0,5	0,64	0,64	0,79	0,93
<b>Sound Level ❸</b>									
Sound Pressure Level (High)	dBA	34	43	40	43	40	47	48	46
Sound Pressure Level (Med)	dBA	30	37	36	39	36	44	46	45
Sound Pressure Level (Low)	dBA	19	27	28	32	30	34	35	37
<b>Installation Data</b>									
Coil In/ Out Diameter (Cooling Coil)	inch	3/4							
Coil In/ Out Diameter (Additional Heating Coil)	inch	1/2							
Drain Pipe Diameter	mm	20							
<b>Absorbed Power</b>									
Absorbed Power (Cooling)	W	16/16/9	38/31/16	34/28/17	62/53/31	44/41/21	113/89/50	109/91/48	149/129
Turbo/High/Medium/Low/Silent Speed		/4/3	/6/3	/6/4	/9/5	/7/5	/10/7	/19/12	/76/25/19
Absorbed Power (Cooling)	W	16/16/10	40/31/19	35/28/17	65/56/32	46/42/22	118/91/52	114/93/44	157/133
Turbo/High/Medium/Low/Silent Speed		/4/3	/6/3	/7/4	/12/5	/9/5	/11/8	/16/12	/77/28/12
Step Reference Signal - Turbo/High/Medium	V	10/8,1/5,9	10/7,9/6,2	10/8,1/6,0	10/8,1/6,3	10/8,1/5,9	10/8,2/6,5	10/8,2/5,9	10/8,0/6,0
Step Reference Signal - Low/Silent	V	3,2/2,6	3,3/2,4	3,3/2,8	3/2,6	3,1/2,6	3/2,5	3,4/2,7	3/2,0

❶ Values are at high speed; 27 °C DB 50 % RH room conditions and 7/12 °C in/out water temperatures.

❷ Values are at high speed, 20 °C DB room conditions and 70/50 °C in/out temperatures.

❸ Sound pressure levels are measured at 1 mt. distance from the tested unit and Q: 1.

**ÜNTES**<sup>®</sup>   
Building Trust since 1968

**Export Sales Office**

**Address:** 53. Cadde 1450. Sokak Ulusoy Plaza No: 9/51  
Cukurambar, Ankara, Turkey  
T+90 (312) 287 91 00 F+90 (312) 284 91 00  
**Email:** export@untes.com.tr

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