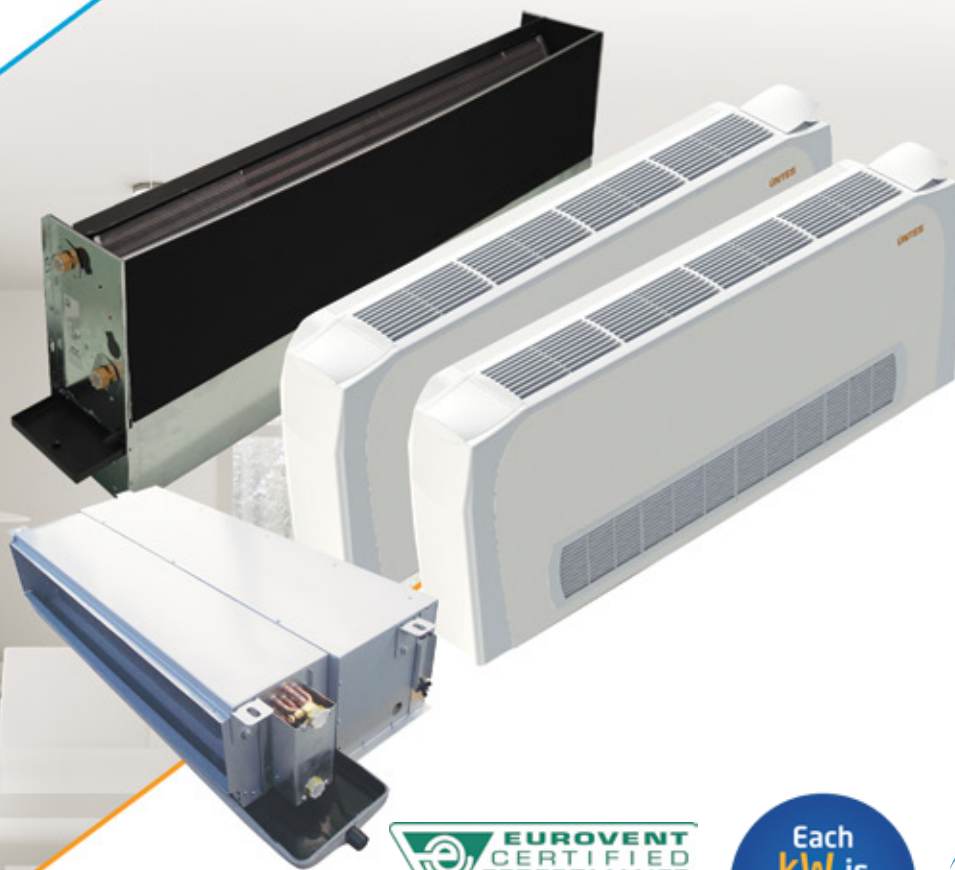


# Fan Coil Units

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



COMFORT  
ZONE



# ÜNTES®

# 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

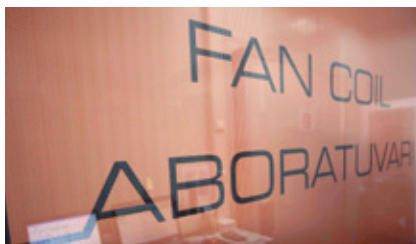
Untes fan coil units offers just-in-time delivery based on its lean production philosophy. Due to its unique design and the most recent manufacturing technology, fan coil units are low noise, compact, easy to install as well as having aesthetic appearance.

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 collaborates 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.

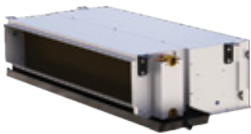
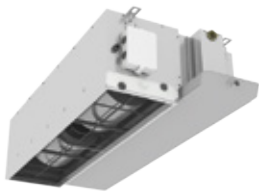







Know the unit  
operation at actual  
operating conditions.



Verify unit limits at  
severe operating  
conditions.

Series	Type	Version	Model	Connection
UNFC	GTT: Ceiling Concealed Type	2Y: 2-Pipe Up to 60 Pa 4Y: 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	015~110	L: Left Connection R: Right Connection
	GTA: Ceiling Concealed Type			
	GBT: Ceiling Concealed Type (District Cooling)			
	GBA: Ceiling Concealed Type (District Cooling)			
	KTP: Cabinet Ceiling Type	2B: 2-Pipe 4B: 4-Pipe 2E: 2-Pipe with EC Motor 4E: 4-Pipe with EC Motor		
	KTT: Cabinet Ceiling Type			
	KDT: Cabinet Floor Type			
	KYT: Cabinet Floor Type			
	GDT: 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

## CUT 2/4



- 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

## CUT 2/4 (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



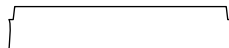
2 and 3- way valves are used for the purpose of thermostatic fluid control for the coils and are supplied loose or factory fitted. 3-way valves are available with 4-port option for the installation convenience.

## APK: Rear cover



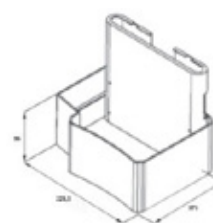
Used for covering the back of units in KDT and KYT types.

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.

## 3VM3SG: 3-way valve installation kit



Used for 2-Pipe systems for GTT - GDT - GTA types.\*

\* Supplied loose

## 4VM3SG: 3-way valve installation kit



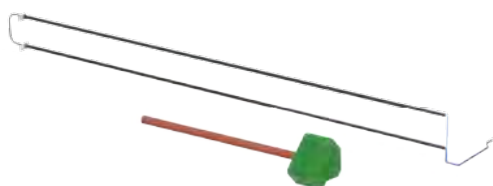
Used for 4-Pipe systems for GTT - GTA types. \*

## 4VM3SK: 3-way valve installation kit



Used for 4-Pipe systems for GDT 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.

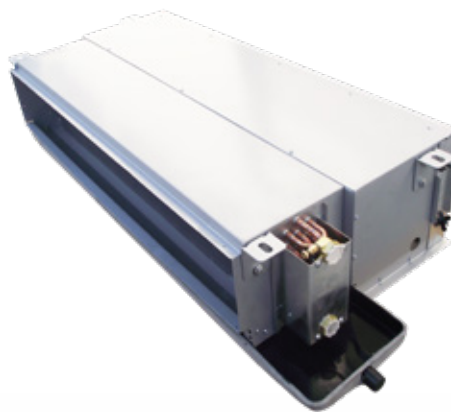
# UNFC Series

## Ceiling Concealed Type

 Cooling capacity: 1,22-13,09 kW

 Heating capacity: 3,43-43,46 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 20 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

- **2Y** : 2-Pipe Up to 60 Pa
- **4Y** : 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												
	2Y	015	020	025	030	035	040	050	060	070	080	100	110
Technical Specifications													
❶ Total Cooling Capacity	kW	1,68	2,49	2,79	3,47	4,59	4,86	5,44	6,55	7,02	8,35	10,09	11,58
❶ Sensible Cooling Capacity	kW	1,35	1,79	2,01	2,58	3,30	3,51	3,84	4,59	4,99	5,94	7,28	8,31
❷ Heating Capacity	kW	4,55	5,74	6,56	8,49	10,63	11,37	12,71	14,81	16,23	19,3	23,27	27,21
❸ Heating Capacity	kW	5,93	7,53	8,60	11,13	13,96	14,92	16,72	19,49	21,36	25,4	30,79	36,01
Airflow (High Speed)	m³/h	473	449	530	934	880	972	1,023	1189	1396	1626	1958	2288
Airflow (Medium Speed)	m³/h	388	365	410	745	703	777	809	953	1117	1312	1562	1874
Airflow (Low Speed)	m³/h	215	200	228	427	404	492	511	530	682	724	990	1023
Dimensions													
GTT Unit (WxHxD)	mm	709	709	709	984	984	984	1101	1024	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	13,9	14,7	14,8	20,1	21,2	21,3	24,3	25,7	31,8	33	40,3	42,4
Fluid Data													
❶ Water Flowrate (Cooling)	l/h	294,6	435,1	488	607,7	800,9	848,2	947,3	1152	1221,8	1458,3	1759,5	2021,4
❶ Water Side Pressure Drop	kPa	4,6	14,2	18	24,9	20	22,4	33,4	40	29,3	40,4	26,4	36
❷ Water Flowrate (Heating)	l/h	261,2	332,4	379,4	490,8	616,6	658,7	738,4	860,2	943,6	1120,6	1359,8	1589,4
❷ Water Side Pressure Drop	kPa	3,1	5,9	7,6	12,4	8,2	9,3	12,8	20	15,2	20,1	13,8	17,4
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
❸ Sound Level													
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	22	26	32	27	29	33	32	33	34	37	35	36
Installation Data													
Coil In/Out Diameter	inch	3/4											
Drain Pipe Diameter	inch	3/4											
Absorbed Power													
Absorbed Power (Cooling) High Speed	W	43	46	56	79	78	84	89	163	111	152	169	207
Absorbed Power (Cooling) Medium Speed	W	37	40	48	71	67	78	82	155	102	144	155	192
Absorbed Power (Cooling) Low Speed	W	28	31	38	56	55	65	66	123	86	124	126	161
❹ Electric Heater Option													
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.

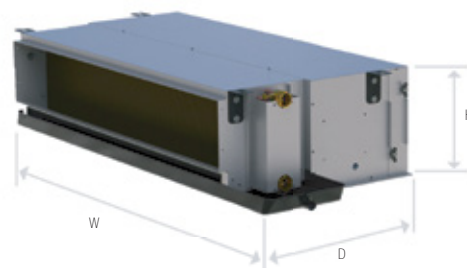
❶ Values are at high speed, 27 °C DB 50 % RH room conditions and 7/12 °C in/out water temperatures.

❷ Values are at high speed, 20 °C DB room conditions and 70/60 °C in/out temperatures.

❸ Values are at high speed, 20 °C DB room conditions and 90/70 °C water in/out temperatures.

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

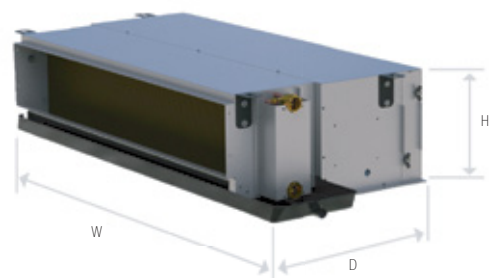
❺ All values are based on 230 Volt, 50 Hz electrical supply.



UNFC Series	GTT - GTA TYPES 4-PIPE												
	4Y	015	020	025	030	035	040	050	060	070	080	100	110
Technical Specifications													
❶ Total Cooling Capacity	kW	1,59	2,50	2,72	3,73	4,57	4,69	5,43	6,53	6,86	7,78	10,16	11,08
❶ Sensible Cooling Capacity	kW	1,28	1,79	1,96	2,77	3,28	3,38	3,83	4,58	4,87	5,51	7,31	7,94
❷ Heating Capacity	kW	3,05	3,11	3,42	5,74	5,64	5,93	6,74	7,69	8,36	9,07	12,55	13,91
❸ Heating Capacity	kW	3,95	4,04	4,43	7,50	7,37	7,74	8,83	10,07	10,86	11,77	16,38	18,17
Airflow (High Speed)	m³/h	453	431	506	885	835	920	979	1149	1324	1544	1857	2184
Airflow (Medium Speed)	m³/h	369	348	393	708	672	743	780	938	1064	1270	1496	1833
Airflow (Low Speed)	m³/h	204	192	219	408	387	473	493	510	654	693	951	982
Dimensions													
GTT Unit (WxHxD)	mm	709	709	709	984	984	984	1101	1024	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
Fluid Data													
❶ Water Flowrate (Cooling)	l/h	279,2	436,4	475,8	653,1	797,7	818,4	946	1141,1	1197,5	1363,5	1772,7	1934,8
❶ Water Side Pressure Drop	kPa	4,4	13,9	16,9	26,3	19	20,8	30,8	42,8	26,5	35,4	25,5	33,5
❷ Water Flowrate (Heating)	l/h	173,2	177	193,5	329,1	322,8	339,9	387,2	440,7	475,7	513,9	717,5	795,1
❷ Water Side Pressure Drop	kPa	4,7	5	5,9	20,6	19,9	21,7	31,3	42	12,7	12,4	28,1	29,6
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
❹ Sound Level													
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
Installation Data													
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											
Absorbed Power													
Absorbed Power (Cooling) High Speed	W	43	42	54	75	80	82	85	114	122	177	167	204
Absorbed Power (Cooling) Medium Speed	W	36	36	47	72	73	76	80	107	112	171	156	191
Absorbed Power (Cooling) Low Speed	W	31	29	41	58	65	67	69	93	103	140	137	172

\*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 70/60 °C in/out temperatures.
- ❸ Values are at high speed, 20 °C DB room conditions and 90/70 °C water in/out temperatures.
- ❹ 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
Technical Specifications											
❶ Total Cooling Capacity	kW	2,01	3,45	4,22	5,85	6,69	7,51	9,08	9,59	11,86	13,09
❶ Sensible Cooling Capacity	kW	1,66	2,54	3,23	4,3	4,8	5,35	6,58	6,92	8,7	9,53
❷ Heating Capacity	kW	5,19	7,61	9,84	12,87	14,17	15,78	19,59	20,57	26,71	29,19
❸ Heating Capacity	kW	6,76	9,98	12,89	16,89	18,63	20,76	25,77	27,08	35,34	38,65
Airflow (Turbo Speed)	m³/h	541	656	1063	1124	1204	1341	1693	1778	2259	2468
Airflow (High Speed)	m³/h	491	591	978	1025	1110	1227	1541	1623	2075	2252
Airflow (Medium Speed)	m³/h	420	505	870	905	993	1079	1371	1427	1826	1981
Airflow (Low Speed)	m³/h	254	303	618	624	734	762	943	996	1291	1377
Airflow (Silent)	m³/h	197	246	516	555	665	687	837	877	1157	1231
Dimensions											
GTT Unit (WxHxD)	mm	709	709	984	984	1101	1024	1101	1024	1411	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	1150	1240	1455	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	1024	1101	1024	1411	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	1150	1240	1455	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
Fluid Data											
❶ Water Flowrate (Cooling)	l/h	350,9	600,8	735,1	1019,7	1164,2	1310,1	1582,1	1671,1	2066,9	2284,1
❶ Water Side Pressure Drop	kPa	5,8	23,2	30,9	28	39,9	52,8	40,2	45,8	31,9	40,2
❷ Water Flowrate (Heating)	l/h	298,8	440,8	596,6	746,1	823,1	916,7	1138,7	1196,1	1561,7	1707,3
❷ Water Side Pressure Drop	kPa	3,4	10,4	15	12,2	16,3	21,1	16,9	19,1	15	18,4
Water Content	l	0,75	1,05	1,06	1,52	1,75	1,89	2,18	2,26	2,83	3,03
❸ Sound Level											
Sound Pressure Level (High)	dBA	38	44	44	45	44	48	47	48	47	49
Sound Pressure Level (Med)	dBA	34	41	40	41	40	43	45	47	43	47
Sound Pressure Level (Low)	dBA	22	32	27	33	32	33	34	37	35	36
Installation Data											
Coil In/Out Diameter	inch	3/4									
Drain Pipe Diameter	inch	3/4									
Absorbed Power											
Absorbed Power (Cooling) Turbo Speed	W	31	56	69	92	99	125	137	150	185	220
Absorbed Power (Cooling) High Speed	W	24	43	54	73	79	98	108	119	148	173
Absorbed Power (Cooling) Medium Speed	W	17	29	38	51	58	68	78	84	103	120
Absorbed Power (Cooling) Low Speed	W	6	10	13	19	25	26	31	34	41	46
Absorbed Power (Cooling) Silent Speed	W	5	7	9	12	18	17	22	23	27	29
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
❹ Electric Heater Option											
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 70/60 °C in/out temperatures.

❸ Values are at turbo speed, 20 °C DB room conditions and 90/70 °C water in/out temperatures.

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

❺ 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
Technical Specifications											
❶ Total Cooling Capacity	kW	1,94	3,33	4,01	5,57	6,42	7,24	8,66	9,17	11,3	12,53
❶ Sensible Cooling Capacity	kW	1,59	2,45	3,06	4,08	4,6	5,15	6,26	6,59	8,26	9,08
❷ Heating Capacity	kW	2,54	3,18	4,72	5,16	5,84	6,68	7,75	8,24	10,47	11,68
❸ Heating Capacity	kW	4,04	4,59	7,5	7,81	8,84	9,88	11,63	12,25	15,85	17,38
Airflow (Turbo Speed)	m³/h	511	625	982	1044	1133	1270	1580	1664	2104	2312
Airflow (High Speed)	m³/h	462	562	903	951	1044	1162	1435	1518	1931	2109
Airflow (Medium Speed)	m³/h	393	477	796	838	932	1020	1273	1330	1694	1851
Airflow (Low Speed)	m³/h	236	283	548	562	674	707	857	910	1167	1254
Airflow (Silent)	m³/h	183	230	457	498	605	631	757	797	1039	1112
Dimensions											
GTT Unit (WxHxD)	mm	709	709	984	984	1101	1024	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	1024	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
Fluid Data											
❶ Water Flowrate (Cooling)	l/h	337,8	581,2	699,8	970,1	1117,1	1262,7	1508,7	1597,3	1969	2184,4
❶ Water Side Pressure Drop	kPa	5,4	21,9	28,2	25,5	37	49,4	36,8	42,1	29,2	37,1
❷ Water Flowrate (Heating)	l/h	178,2	201,5	330,4	342,9	388,3	433,4	510,6	537,8	696,4	762,9
❷ Water Side Pressure Drop	kPa	4,7	5,,9	19,6	21	29,5	38,5	9,7	11	20,8	25,9
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
❹ Sound Level											
Sound Pressure Level (High)	dBA	38	44	44	45	44	47	44	48	47	49
Sound Pressure Level (Med)	dBA	37	41	40	41	40	43	41	47	43	44
Sound Pressure Level (Low)	dBA	27	32	27	33	32	35	34	37	35	37
Installation Data											
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			
Absorbed Power											
Absorbed Power (Cooling) Turbo Speed	W	30	54	64	86	93	117	128	140	172	205
Absorbed Power (Cooling) High Speed	W	23	41	50	68	75	93	101	112	139	162
Absorbed Power (Cooling) Medium Speed	W	16	28	35	47	54	65	74	79	96	113
Absorbed Power (Cooling) Low Speed	W	6	10	12	18	23	24	29	32	38	43
Absorbed Power (Cooling) Silent Speed	W	5	6	8	11	16	16	20	22	25	27
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 70/60 °C in/out temperatures.

❸ Values are at turbo speed, 20 °C DB room conditions and 90/70 °C water in/out temperatures.

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

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

UNFC Series	GBT-GBA TYPES 2-PIPE												
	2Y	015	020	025	030	035	040	050	060	070	080	100	110
Technical Specifications													
❶ Total Cooling Capacity	kW	1,25	1,86	2,14	3,35	3,65	3,94	4,60	5,45	6,06	6,94	8,01	9,5
❶ Sensible Cooling Capacity	kW	1,15	1,44	1,65	2,58	2,77	3,00	3,38	3,96	4,49	5,13	6,09	7,13
❷ Heating Capacity	kW	5,49	5,82	6,70	10,36	11,07	12,02	13,01	15,14	17,83	20,45	25,62	29,72
❸ Heating Capacity	kW	7,21	7,68	8,83	13,65	14,63	15,88	17,21	20,04	23,73	27,19	34,41	39,89
Airflow (High Speed)	m³/h	458	432	508	886	837	923	979	1148	1325	1545	1862	2188
Airflow (Medium Speed)	m³/h	372	350	395	708	673	744	779	938	1064	1270	1498	1834
Airflow (Low Speed)	m³/h	203	192	219	407	389	474	492	509	653	691	954	982
Dimensions													
GBT Unit (WxHxD)	mm	709	709	709	984	984	984	1.101	1.024	1.359	1.411	1.771	1.882
		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	1.015	1.015	1.015	1.150	1.240	1.455	1.455	1.790	1.915
		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	1.101	1.024	1.359	1.411	1.771	1.882
		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	1.015	1.015	1.015	1.150	1.240	1.455	1.455	1.790	1.915
		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
Fluid Data													
❶ Water Flowrate (Cooling)	l/h	123,9	182,2	210	327,6	356	384,3	448,2	531,9	590,7	679,4	782,1	929,2
❶ Water Side Pressure Drop	kPa	1,3	3,5	4,5	10,5	5,4	6,2	9,3	13,5	8,7	11,5	6,8	9,7
❷ Water Flowrate (Heating)	l/h	318,2	339	389,4	602,6	646,1	701,2	760,2	884,3	1048	1199,8	1519,9	1761
❷ Water Side Pressure Drop	kPa	5,7	8,4	10,,9	24,5	12,2	14,2	18,4	25,8	18,7	24,6	17,5	24
Water Content	l	1,05	1,35	1,35	1,52	1,98	1,98	2,28	2,47	2,85	2,96	3,72	3,99
❹ Sound Level													
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	22	26	32	27	29	33	32	33	34	37	35	36
Installation Data													
Coil In/Out Diameter	inch	3/4											
Drain Pipe Diameter	inch	3/4											
Absorbed Power													
Absorbed Power (Cooling) High Speed	W	48	47	64	87	85	94	97	129	141	185	190	247
Absorbed Power (Cooling) Medium Speed	W	42	42	54	77	75	84	86	115	125	164	169	223
Absorbed Power (Cooling) Low Speed	W	32	32	41	61	60	68	68	89	100	129	136	177
❺ Electric Heater Option													
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.

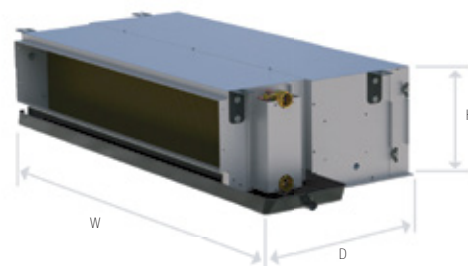
❶ Values are at high speed, 24 °C DB 50 % RH room conditions and 5,5/14,5 °C in/out water temperatures.

❷ Values are at high speed, 20 °C DB room conditions and 70/60 °C in/out temperatures.

❸ Values are at high speed, 20 °C DB room conditions and 90/70 °C water in/out temperatures.

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

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



UNFC Series	GBT-GBA TYPES 4-PIPE												
	4Y	015	020	025	030	035	040	050	060	070	080	100	110
Technical Specifications													
❶ Total Cooling Capacity	kW	1,22	1,79	2,06	3,23	3,50	3,78	4,46	5,31	5,83	6,68	7,7	9,18
❶ Sensible Cooling Capacity	kW	1,11	1,39	1,58	2,48	2,66	2,87	3,27	3,85	4,3	4,92	5,84	6,87
❷ Heating Capacity	kW	2,64	2,55	2,82	4,85	4,69	4,97	5,56	6,42	7,22	8,10	10,12	11,59
❸ Heating Capacity	kW	3,43	3,31	3,66	6,33	6,12	6,49	7,28	8,41	9,39	10,53	13,21	15,12
Airflow (High Speed)	m³/h	439	415	486	841	796	876	937	1,107	1259	1467	1769	2088
Airflow (Medium Speed)	m³/h	355	335	380	676	645	713	752	922	1017	1228	1438	1786
Airflow (Low Speed)	m³/h	194	184	210	390	374	457	476	492	692	665	920	948
Dimensions													
GBT Unit (WxHxD)	mm	709	709	709	984	984	984	1.101	1.024	1.359	1.411	1.771	1.882
		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	1.015	1.015	1.015	1.150	1.240	1.455	1.455	1.790	1.915
		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	1.101	1.024	1.359	1.411	1.771	1.882
		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	1.015	1.015	1.015	1.150	1.240	1.455	1.455	1.790	1.915
		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
Fluid Data													
❶ Water Flowrate (Cooling)	l/h	121	175,4	202,1	316,2	341,9	368,9	433,8	518	568,3	654,1	751,8	897,5
❶ Water Side Pressure Drop	kPa	1,3	3,3	4,2	9,9	5,1	5,8	8,7	12,9	8,1	10,8	6,3	9,1
❷ Water Flowrate (Heating)	l/h	150,1	145	159,6	277,4	268,3	284,3	319,2	367,8	410,7	459,5	578,3	661
❷ Water Side Pressure Drop	kPa	3,4	3,2	3,9	14,2	13,4	14,9	20,5	28,4	6,5	8,2	14,7	19,9
Water Content (Cooling)	l	1,05	1,35	1,35	1,52	1,98	1,98	2,28	2,47	2,85	2,96	3,72	3,99
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
❹ Sound Level													
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
Installation Data													
Coil In/Out Diameter	inch	3/4											
Drain Pipe Diameter	inch	3/4											
Absorbed Power													
Absorbed Power (Cooling) High Speed	W	48	46	65	85	83	92	95	124	137	179	184	237
Absorbed Power (Cooling) Medium Speed	W	42	41	53	76	74	82	84	112	123	160	165	216
Absorbed Power (Cooling) Low Speed	W	32	32	41	60	60	67	68	88	99	128	134	176

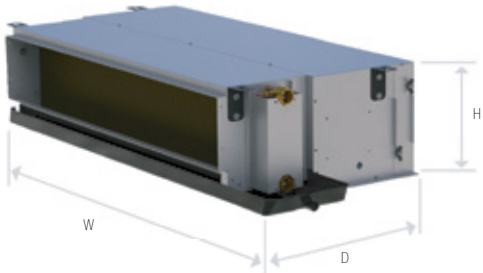
\*All data given in the table is at 0 Pa external static pressure.

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 70/60 °C in/out temperatures.

❸ Values are at high speed, 20 °C DB room conditions and 90/70 °C water in/out temperatures.

❹ 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
Technical Specifications											
❶ Total Cooling Capacity	kW	1,49	2,72	3,88	4,63	5,46	6,24	7,36	7,84	9,4	10,57
❶ Sensible Cooling Capacity	kW	1,38	2,1	3,02	3,54	4,03	4,55	5,5	5,85	7,17	7,96
❷ Heating Capacity	kW	6,28	8,25	11,75	13,83	15,21	17,02	21,40	22,53	29,47	32,33
❸ Heating Capacity	kW	8,25	10,88	15,49	18,27	20,13	22,53	28,49	30	39,61	43,46
Airflow (Turbo Speed)	m³/h	517	628	987	1051	1137	1273	1587	1671	2118	2324
Airflow (High Speed)	m³/h	468	565	907	957	1047	1164	1441	1523	1942	2118
Airflow (Medium Speed)	m³/h	398	479	800	842	934	1021	1277	1334	1703	1858
Airflow (Low Speed)	m³/h	236	285	549	565	674	706	857	910	1172	1257
Airflow (Silent)	m³/h	183	231	457	500	605	630	758	796	1044	1114
Dimensions											
GBT Unit (WxHxD)	mm	709	709	984	984	1101	1024	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	1024	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
Fluid Data											
❶ Water Flowrate (Cooling)	l/h	145,2	264,1	376,4	449,4	529,4	606,2	713,5	761	913	1027,6
❶ Water Side Pressure Drop	kPa	1,8	6,8	13,5	8,2	12,5	17,1	12,2	14,2	8,9	11,7
❷ Water Flowrate (Heating)	l/h	365,3	480,7	685,4	807,9	890,1	995,6	1260,1	1326,4	1751,9	1921,5
❷ Water Side Pressure Drop	kPa	7,3	16,2	31,2	18,5	24,6	32,1	26,2	29,6	22,7	28,3
Water Content	l	1,05	1,35	1,52	1,98	2,28	2,47	2,85	2,96	3,72	3,99
❸ Sound Level											
Sound Pressure Level (High)	dBA	38	44	44	45	44	48	47	48	47	49
Sound Pressure Level (Med)	dBA	34	41	40	41	40	43	45	47	43	47
Sound Pressure Level (Low)	dBA	22	32	27	33	32	33	34	37	35	36
Installation Data											
Coil In/Out Diameter	inch	3/4									
Drain Pipe Diameter	inch	3/4									
Absorbed Power											
Absorbed Power (Cooling) Turbo Speed	W	30	54	64	87	93	118	129	141	174	207
Absorbed Power (Cooling) High Speed	W	24	42	51	69	75	93	102	113	104	164
Absorbed Power (Cooling) Medium Speed	W	16	28	35	48	54	65	74	80	97	114
Absorbed Power (Cooling) Low Speed	W	6	10	12	18	24	24	29	32	39	43
Absorbed Power (Cooling) Turbo Speed	W	5	7	8	12	6	16	20	22	25	27
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
❹ Electric Heater Option											
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 70/60 °C in/out temperatures.

❸ Values are at turbo speed, 20 °C DB room conditions and 90/70 °C water in/out temperatures.

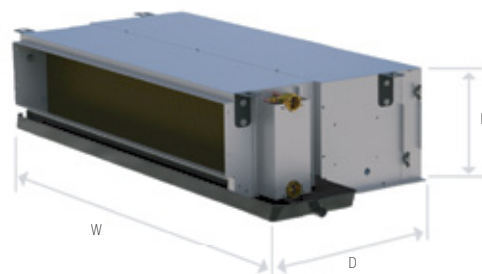
❹ Sound pressure levels are measured at 1 mt. distance from the tested unit and Q: 1.

❺ 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
Technical Specifications											
❶ Total Cooling Capacity	kW	1,41	2,62	3,69	4,39	5,23	6,01	7,01	7,49	8,94	10,1
❶ Sensible Cooling Capacity	kW	1,31	2,02	2,85	3,35	3,85	4,37	5,22	5,54	6,79	7,57
❷ Heating Capacity	kW	3,03	3,45	5,50	5,75	6,52	7,31	8,61	9,08	11,69	12,84
❸ Heating Capacity	kW	3,93	4,47	7,19	7,52	8,54	9,57	11,20	11,82	15,27	16,79
Airflow (Turbo Speed)	m³/h	489	599	916	981	1,072	1,207	1485	1568	1980	2184
Airflow (High Speed)	m³/h	440	537	840	892	986	1,104	1346	1427	1814	1989
Airflow (Medium Speed)	m³/h	373	454	732	783	878	967	1190	1247	1586	1740
Airflow (Low Speed)	m³/h	220	268	491	547	621	655	785	836	1088	1152
Airflow (Silent)	m³/h	171	217	409	507	554	579	692	728	1055	1020
Dimensions											
GBT Unit (WxHxD)	mm	709	709	984	984	1101	1024	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	1024	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
Fluid Data											
❶ Water Flowrate (Cooling)	l/h	137,3	254,3	356,9	426,3	506,9	583,4	680,1	726,7	867,3	980,9
❶ Water Side Pressure Drop	kPa	1,6	6,4	12,3	7,5	11,5	15,9	11,2	13	8,1	10,7
❷ Water Flowrate (Heating)	l/h	173,4	196,3	316,5	330,2	375,3	420,2	491,9	518,8	670,9	736,9
❷ Water Side Pressure Drop	kPa	4,5	5,7	18,1	19,6	27,7	36,3	9,1	10,3	19,4	24,3
Water Content (Cooling)	l	1,05	1,35	1,52	1,98	2,28	2,47	2,85	2,96	3,72	3,99
Water Content (Heating)	l	0,38	0,38	0,54	0,54	0,61	0,66	0,76	0,79	0,98	1,04
❸ Sound Level											
Sound Pressure Level (High)	dBA	38	44	44	45	44	47	44	48	47	49
Sound Pressure Level (Med)	dBA	37	41	40	41	40	43	41	47	43	44
Sound Pressure Level (Low)	dBA	27	32	27	33	32	35	34	37	35	37
Installation Data											
Coil In/Out Diameter	inch	3/4									
Drain Pipe Diameter	inch	3/4									
Absorbed Power											
Absorbed Power (Cooling) Turbo Speed	W	29	52	60	81	88	111	121	132	163	193
Absorbed Power (Cooling) High Speed	W	23	40	47	65	71	88	97	107	132	154
Absorbed Power (Cooling) Medium Speed	W	16	27	33	45	51	62	70	75	91	107
Absorbed Power (Cooling) Low Speed	W	6	9	11	18	22	23	27	30	36	40
Absorbed Power (Cooling) High Speed	W	4	6	8	12	15	15	19	20	27	25
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 70/60 °C in/out temperatures.
- ❸ Values are at turbo speed, 20 °C DB room conditions and 90/70 °C water in/out temperatures.
- ❹ Sound pressure levels are measured at 1 mt. distance from the tested unit and Q: 1.





# UNFC Series

## Cabinet Types

-  Cooling capacity: 1,38-11,57 kW
-  Heating capacity: 2,41-31,3 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 20 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.

### Versions

- **2B** : 2-Pipe
- **4B** : 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

### 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





UNFC Series	KDT - KYT - KTP - KTT - GDT TYPES 2-PIPE													
	2	015	020	025	030	035	040	050	060	070	080	100	110	
Technical Specifications														
❶ Total Cooling Capacity	kW	1,47	1,89	2,35	2,96	3,62	4,08	4,97	5,21	6,15	7,22	8	9,16	
❶ Sensible Cooling Capacity	kW	1,14	1,32	1,67	2,14	2,53	2,88	3,38	3,75	4,27	5,06	5,49	6,33	
❷ Heating Capacity	kW	3,93	4,16	4,96	6,17	7,64	8,51	9,53	12,05	12,44	14,78	16,83	19,45	
❸ Heating Capacity	kW	5,16	5,47	6,52	8,11	10,06	11,19	12,58	15,83	16,41	19,47	22,22	25,67	
Airflow (High Speed)	m³/h	347	327	468	694	661	808	819	1147	1092	1404	1500	1826	
Airflow (Medium Speed)	m³/h	268	252	367	545	520	653	647	938	861	1036	1199	1474	
Airflow (Low Speed)	m³/h	152	142	195	358	339	375	410	504	533	667	769	931	
Dimensions														
KDT Unit (WxHxD)	mm	850	850	850	1110	1110	1110	1370	1370	1630	1630	1890	1890	
		545	545	545	545	545	545	545	545	545	545	545	545	
		231	231	231	231	231	231	231	231	231	231	231	231	
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	
Weight	kg	20,6	21,2	21,2	26,9	27,8	28,8	31,7	33,4	41,5	42,5	50,6	52,9	
Fluid Data														
❶ Water Flowrate (Cooling)	l/h	256,7	329,5	411,9	516,2	629,5	710,1	862,9	909,7	1069,1	1260,7	1394,8	1594,8	
❶ Water Side Pressure Drop	kPa	3,9	11,6	16,8	21,7	16,8	21,6	38,3	11,7	18,7	25,4	37,7	47,9	
❷ Water Flowrate (Heating)	l/h	226,6	241,6	287,4	357,9	444,2	474,3	556,1	698,8	752,2	859,6	981,2	1134	
❷ Water Side Pressure Drop	kPa	2,3	5	7,6	10,5	7,2	9,6	14,6	6,5	7,7	11	15,4	19,1	
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	
❸ Sound Level														
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	
Installation Data														
Coil In/Out Diameter	inch							3/4						
Drain Pipe Diameter	mm	20												
Absorbed Power														
Absorbed Power (Cooling) High Speed	W	30	30	52	58	57	69	66	117	91	144	152	164	
Absorbed Power (Cooling) Medium Speed	W	28	28	43	52	51	64	54	106	77	125	118	139	
Absorbed Power (Cooling) Low Speed	W	24	24	32	44	44	56	43	82	61	98	91	111	

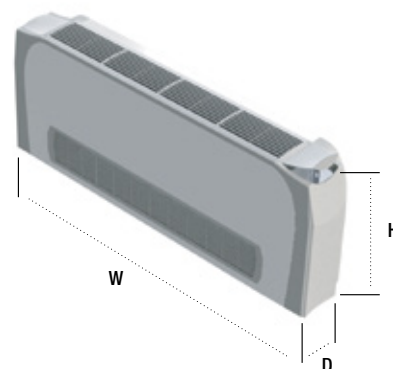
❶ Values are at high speed; 27 °C DB 50 % RH room conditions and 7/12 °C in/out water temperatures.

❷ Values are at high speed, 20 °C DB room conditions and 70/60 °C in/out temperatures.

❸ Values are at high speed, 20 °C DB room conditions and 90/70 °C water in/out temperatures.

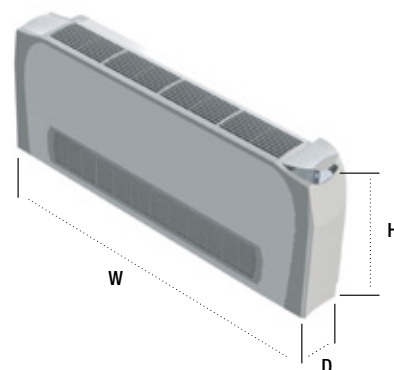
❹ Sound pressure levels are measured at 1 mt. distance from the tested unit and Q: 1.

❺ Floor without cabinet types' (GDT) external static pressure is considered as 12 Pa.



UNFC Series	KDT - KYT - KTP - KTT - GDT TYPES 4-PIPE												
	4	015	020	025	030	035	040	050	060	070	080	100	110
Technical Specifications													
❶ Total Cooling Capacity	kW	1,38	1,93	2,29	2,86	3,58	4,21	4,93	5,17	6,16	7,04	7,93	8,94
❶ Sensible Cooling Capacity	kW	1,07	1,34	1,61	2,07	2,49	2,96	3,34	3,71	4,26	4,91	5,43	6,17
❷ Heating Capacity	kW	1,86	1,94	2,32	3,76	3,69	4,15	4,89	5,92	6,14	7,07	8,01	8,87
❸ Heating Capacity	kW	2,41	2,51	2,99	4,90	4,82	5,40	6,40	7,75	7,99	9,19	10,45	11,57
Airflow (High Speed)	m³/h	326	309	443	655	627	761	785	1100	1037	1332	1422	1723
Airflow (Medium Speed)	m³/h	251	238	349	518	497	621	622	920	821	991	1140	1409
Airflow (Low Speed)	m³/h	143	135	186	338	322	358	395	487	511	641	736	896
Dimensions													
KDT Unit (WxHxD)	mm	850	850	850	1110	1110	1110	1370	1370	1630	1630	1890	1890
		545	545	545	545	545	545	545	545	545	545	545	545
		231	231	231	231	231	231	231	231	231	231	231	231
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
Weight	kg	23,2	23,8	23,8	30,3	31,2	32,2	36	37,7	46,6	47,6	56,5	58,8
Fluid Data													
❶ Water Flowrate (Cooling)	l/h	241,7	336,4	401,6	500,6	622,3	732,9	856,3	903	1072,8	1230,6	1383,4	1559,6
❶ Water Side Pressure Drop	kPa	4,1	11,1	15,3	20	15,7	20,2	36,3	11,5	18,2	23,5	33,9	44,6
❷ Water Flowrate (Heating)	l/h	105,7	110,2	130,3	215,1	211,4	236,9	281,5	339,1	350,8	401,7	457,9	507
❷ Water Side Pressure Drop	kPa	2,4	2,1	3	9,4	9,7	11,3	20,2	27,7	6,2	10,1	13,1	13,7
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
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
❸ Sound Level													
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
Installation Data													
Coil In/ Out Diameter (Cooling Coil)	inch							3/4					
Coil In/ Out Diameter (Additional Heating Coil)	inch							1/2					
Drain Pipe Diameter	mm	20											
Absorbed Power													
Absorbed Power (Cooling) High Speed	W	33	31	59	58	56	70	66	114	102	151	150	169
Absorbed Power (Cooling) Medium Speed	W	28	28	48	52	52	65	54	102	85	133	113	139
Absorbed Power (Cooling) Low Speed	W	25	26	36	45	44	56	43	77	67	103	89	110

- 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 70/60 °C in/out temperatures.  
❸ Values are at high speed, 20 °C DB room conditions and 90/70 °C water in/out temperatures.  
❹ Sound pressure levels are measured at 1 mt. distance from the tested unit and Q: 1.  
❺ Floor without cabinet types' (GDT) external static pressure is considered as 12 Pa.



UNFC Series	KDT - KYT - KTP - KTT - GDT TYPES 2-PIPE								
	2E	015	025	030	040	050	060	080	110
Technical Specifications									
❶ Total Cooling Capacity	kW	1,59	3,01	3,34	5	5,77	6,73	8,76	11,57
❶ Sensible Cooling Capacity	kW	1,25	2,15	2,43	3,54	3,94	4,87	6,16	8,03
❷ Heating Capacity	kW	3,90	6,43	7,35	10,54	11,17	14,84	18,29	23,73
❸ Heating Capacity	kW	5,1	8,45	9,66	13,66	14,76	19,48	24,1	31,3
Airflow (Turbo Speed)	m³/h	380	545	731	889	879	1258	1523	1993
Airflow (High Speed)	m³/h	348	471	699	814	819	1148	1410	1857
Airflow (Medium Speed)	m³/h	269	368	545	658	649	933	1037	1482
Airflow (Low Speed)	m³/h	154	196	369	374	421	508	668	913
Airflow (Silent)	m³/h	126	148	354	366	382	472	619	829
Dimensions									
GBT Unit (WxHxD)	mm	850	850	1110	1110	1370	1370	1630	1890
		545	545	545	545	545	545	545	545
		231	231	231	231	231	231	231	231
GBT 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
GBA 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
GBA 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
Weight	kg	20,6	21,2	26,9	28,8	31,7	33,4	42,5	52,9
Fluid Data									
❶ Water Flowrate (Cooling)	l/h	276,4	523,9	580,3	870,9	998	1178	1524,3	2015,2
❶ Water Side Pressure Drop	kPa	4,3	20,6	23	23,9	38,6	14,6	27,6	52,6
❷ Water Flowrate (Heating)	l/h	225,6	373,2	427,5	612,3	653,2	859,6	1064,8	1382,3
❷ Water Side Pressure Drop	kPa	2,3	8,8	10,2	9,8	13,6	6,4	11	20,2
Water Content (Cooling)	l	0,86	1,19	1,22	1,73	2,28	2,28	2,83	3,37
❸ Sound Level									
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
Installation Data									
Coil In/Out Diameter	inch	3/4							
Drain Pipe Diameter	mm	20							
Absorbed Power									
Absorbed Power (Cooling) Turbo Speed	W	18	44	40	73	51	131	127	178
Absorbed Power (Cooling) High Speed	W	14	32	31	56	42	99	102	145
Absorbed Power (Cooling) Medium Speed	W	9	18	18	34	23	57	49	82
Absorbed Power (Cooling) Low Speed	W	4	6	7	9	8	11	18	25
Absorbed Power (Cooling) High Speed	W	4	4	6	7	6	9	14	18
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 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 70/60 °C in/out temperatures.

❸ Values are at turbo speed, 20 °C DB room conditions and 90/70 °C water in/out temperatures.

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

❺ Floor without cabinet types' (GDT) external static pressure is considered as 12 Pa.

UNFC Series		KDT - KYT - KTP - KTT - GDT TYPES 4-PIPE								
		4E	015	025	030	040	050	060	080	110
Technical Specifications										
❶ Total Cooling Capacity		kW	1,49	2,84	3,07	4,64	5,42	6,39	8,23	10,82
❶ Sensible Cooling Capacity		kW	1,16	2,02	2,22	3,27	3,69	4,6	5,77	7,48
❷ Heating Capacity		kW	2,12	2,68	3,88	4,46	5,15	6,51	7,8	9,99
❷ Heating Capacity		kW	2,74	3,46	5,07	5,82	6,75	8,51	10,15	13,04
Airflow (Turbo Speed)		m³/h	345	502	642	799	809	1167	1393	1809
Airflow (High Speed)		m³/h	315	431	603	729	754	1064	1288	1683
Airflow (Medium Speed)		m³/h	244	337	460	582	580	861	931	1333
Airflow (Low Speed)		m³/h	140	179	308	327	370	446	586	837
Airflow (Silent)		m³/h	115	136	295	314	336	418	546	716
Dimensions										
GBT Unit (WxHxD)	mm		850	850	1110	1110	1370	1370	1630	1890
			545	545	545	545	545	545	545	545
			231	231	231	231	231	231	231	231
GBT 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
GBA 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
GBA 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
Weight	kg		23,2	23,8	30,3	32,2	36,0	37,7	47,6	58,8
Fluid Data										
❶ Water Flowrate (Cooling)		l/h	257,9	494,2	532,7	807,1	938,5	1116,4	1431,4	1883,5
❶ Water Side Pressure Drop		kPa	3,8	18,5	19,7	20,8	34,5	13,3	24,6	46,5
❷ Water Flowrate (Heating)		l/h	121,1	152,1	223,6	255,3	297,8	372,5	445,6	571,7
❷ Water Side Pressure Drop		kPa	2,1	3,3	8,9	11,3	18,7	28,2	7,8	13,9
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
❹ Sound Level										
Sound Pressure Level (High)		dBA	34	43	40	43	40	47	48	46
Sound Pressure Level (Med)		dBA	30	37	36	39	36	45	46	45
Sound Pressure Level (Low)		dBA	19	27	28	32	30	34	35	37
Installation Data										
Coil In/ Out Diameter (Cooling Coil)		inch	3/4							
Coil In/ Out Diameter (Additional Heating Coil)		inch	1/2							
Drain Pipe Diameter		mm	20							
Absorbed Power										
Absorbed Power (Cooling) Turbo Speed		W	17	41	36	67	47	121	117	161
Absorbed Power (Cooling) High Speed		W	13	30	28	52	39	91	95	134
Absorbed Power (Cooling) Medium Speed		W	8	17	16	31	21	53	45	76
Absorbed Power (Cooling) Low Speed		W	3	6	6	8	7	10	17	23
Absorbed Power (Cooling) High Speed		W	3	3	5	6	6	8	13	16
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 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 70/60 °C in/out temperatures.

❸ Values are at turbo speed, 20 °C DB room conditions and 90/70 °C water in/out temperatures.

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

❺ Floor without cabinet types' (GDT) external static pressure is considered as 12 Pa.



# ÜNTES®

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## Manufacturing Plant-1

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