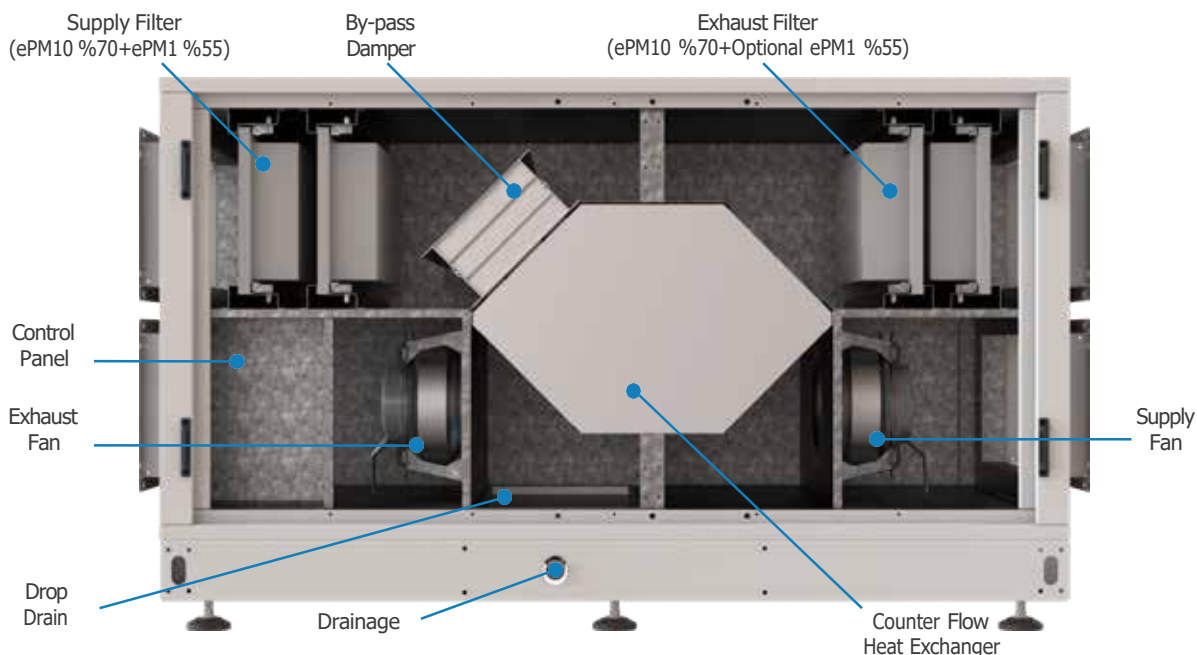




CTZU

- High efficient EC fans with low sound level.
- Optional electrical heater or heating/cooling coil.
- 3 stage airflow speed control.
(All stages can be set between 0-100%)
- Double skin, 50 mm insulation.
- Hygienic Condensate Drip Tray.
- Plug & Play
- Bypass damper. (Night cooling, free cooling and anti-freeze protection of the heat exchanger)

Heat Exchanger

- High efficiency aluminium counter flow heat exchanger.
- Efficiency up to %94. (calculated for balanced air flows)
- Special application for the anti-freeze protection

Filters

- Large filtering area for energy efficiency and long service period. (up to 6 months)
- ePM10 %70 filters on both supply and extract air side, also for exhaust side optional ePM1 %55 Filter available.

Fans

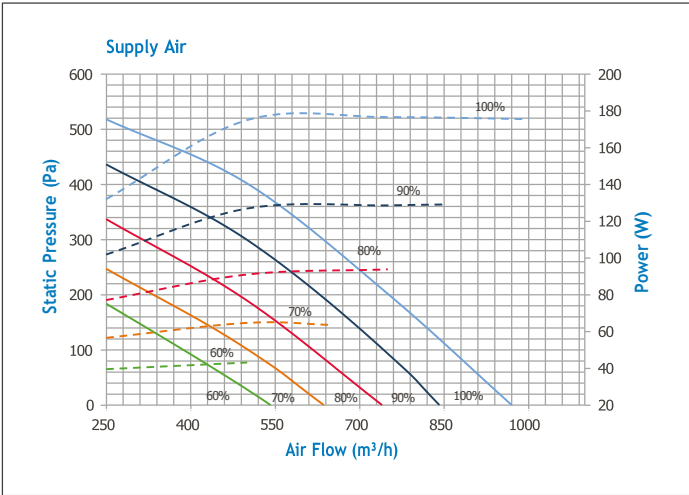
- For low power consumption and low sound level use of EC-plug fan preferred with in CTZU series units. (EBM-Papst)
- 10 years exploitation time. (40.000 hours)

	SPI	SFP	SFP Class
	(W/m³/h)	(kW/m³/s)	EN 13142
CTZU-1000	0,23	1,22	SFP Class 3
CTZU-1600	0,33	2,25	SFP Class 5
CTZU-2500	0,20	2,04	SFP Class 5
CTZU-4000	0,32	2,38	SFP Class 5
CTZU-6000	0,32	2,22	SFP Class 5
CTZU-8500	0,36	2,31	SFP Class 5
CTZU-11000	0,34	2,38	SFP Class 5
CTZU-14000	0,36	2,42	SFP Class 5
CTZU-17000	0,47	2,94	SFP Class 5

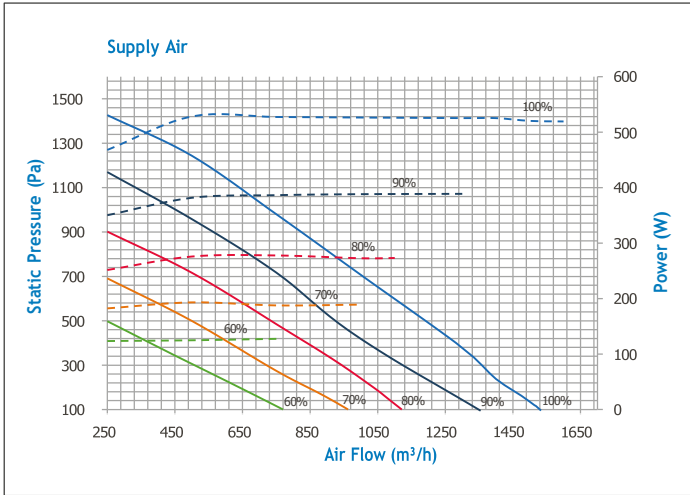
$$SPI = \frac{P_E (W)}{q_v \left[\frac{m^3}{h} \right]} \quad \text{[According to EN 13142]}$$

$$SFP = \frac{P_{sfm} + P_{efm} (kW)}{q_{max} \left[\frac{m^3}{s} \right]} \quad \text{[According to EN 13779]}$$

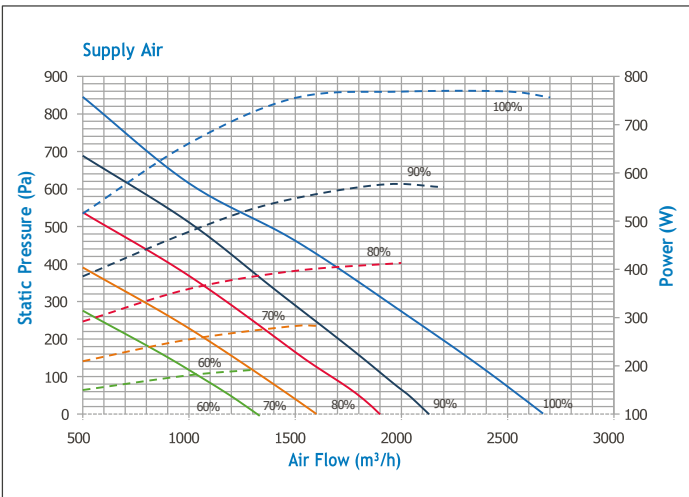
CTZU-1000



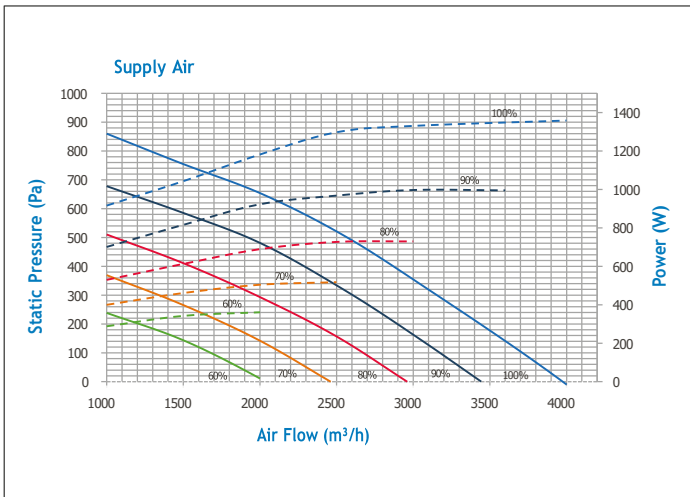
CTZU-1600



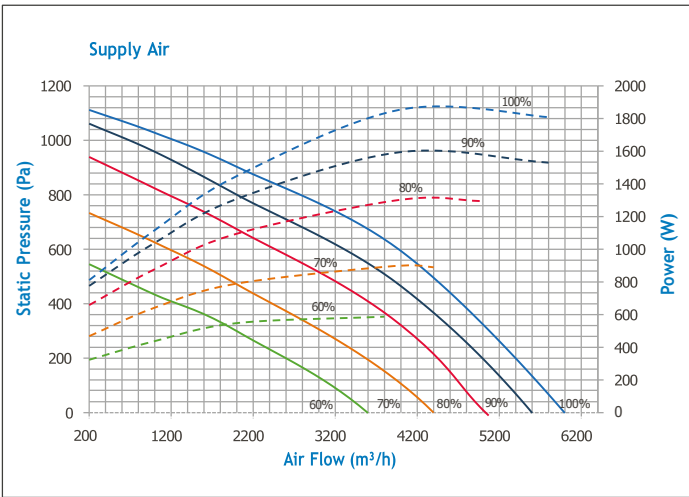
CTZU-2500



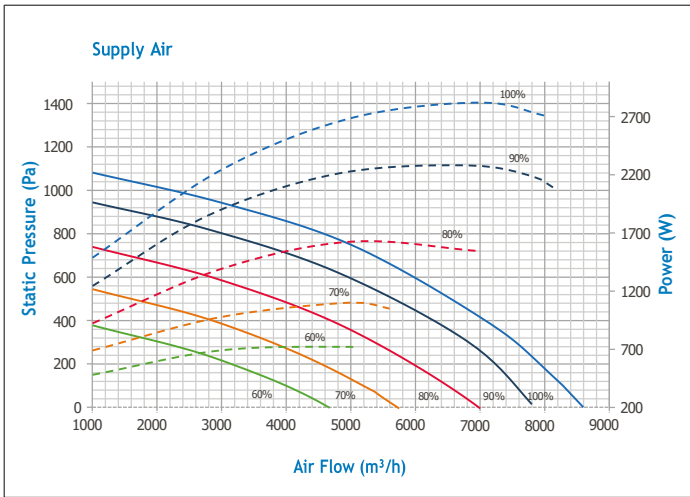
CTZU-4000



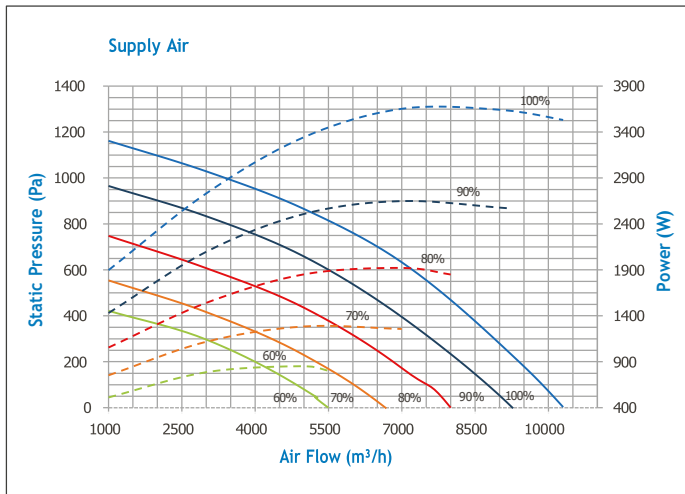
CTZU-6000



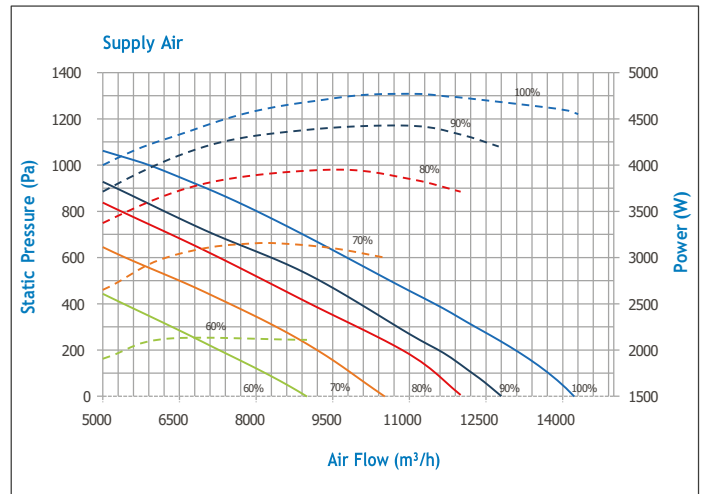
CTZU-8500



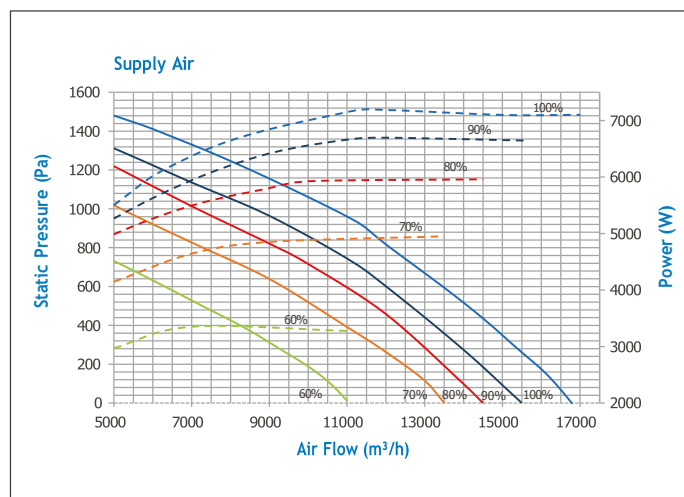
CTZU-11000



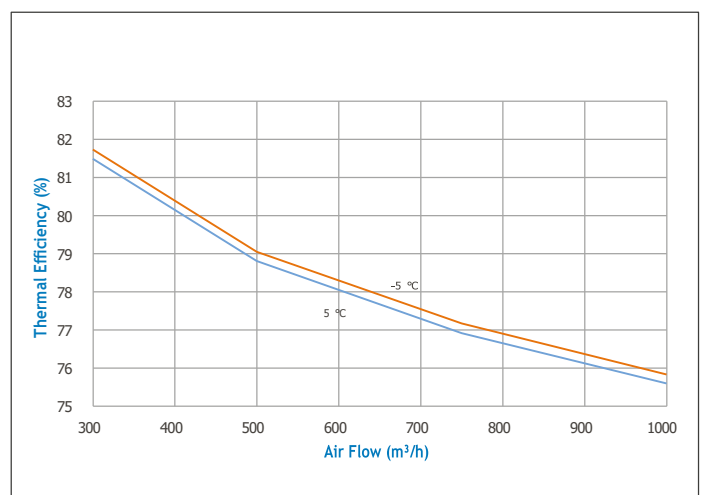
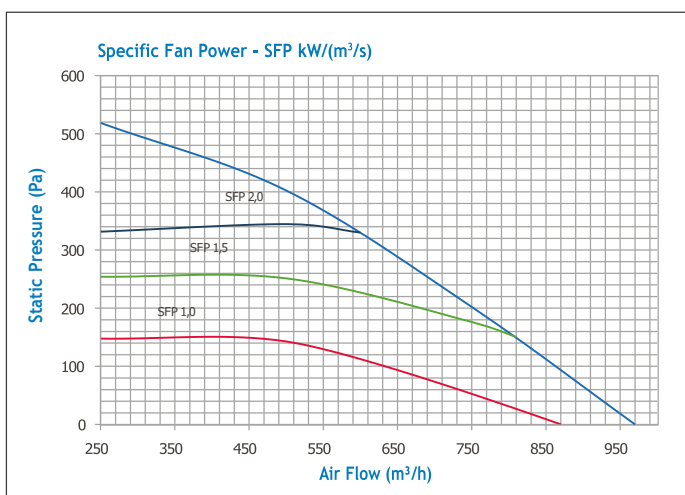
CTZU-14000



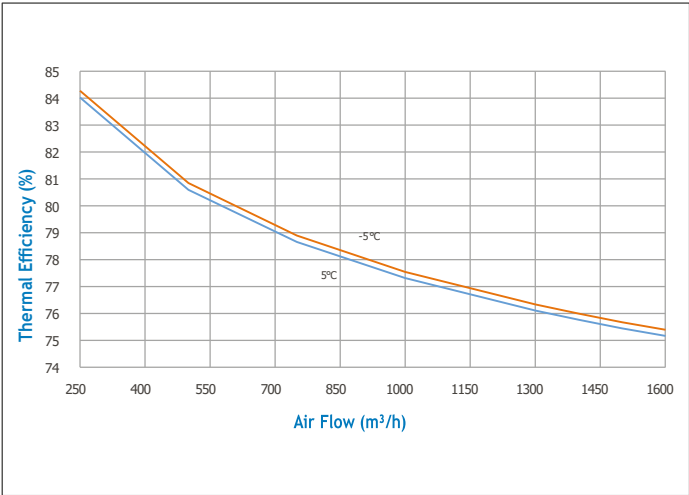
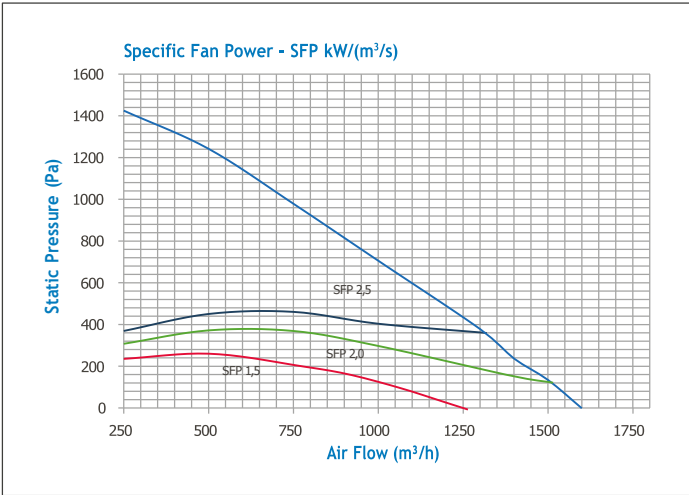
CTZU-17000



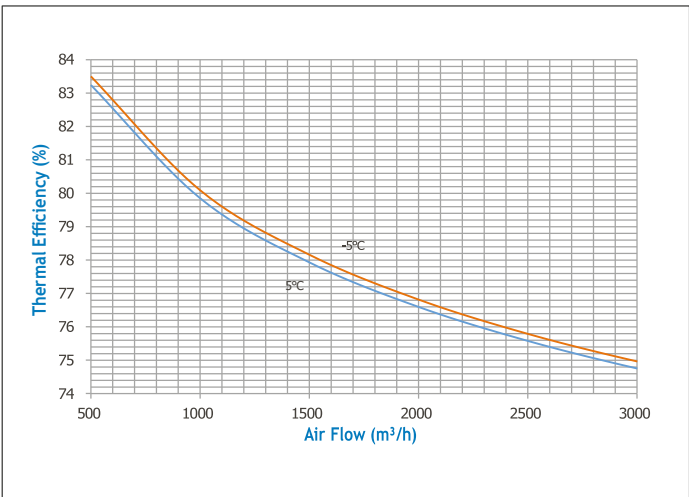
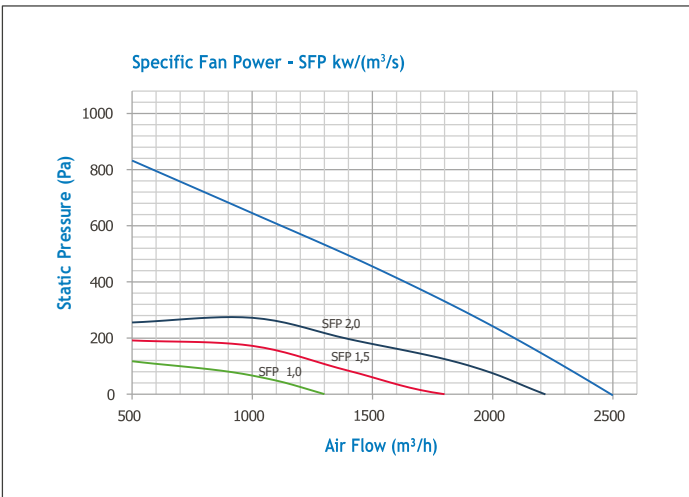
CTZU-1000



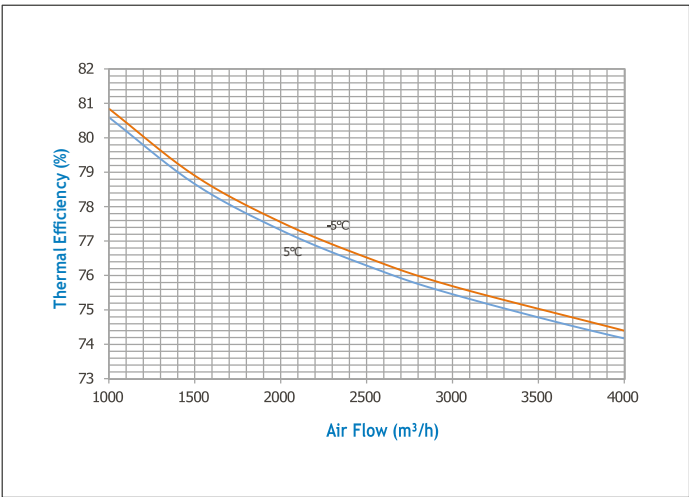
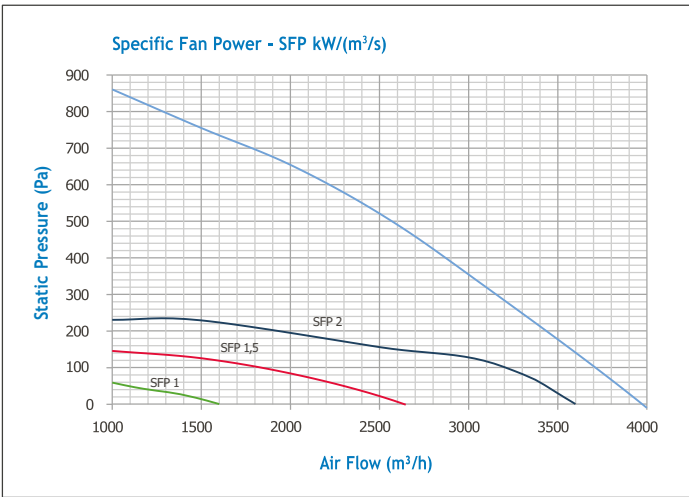
CTZU-1600



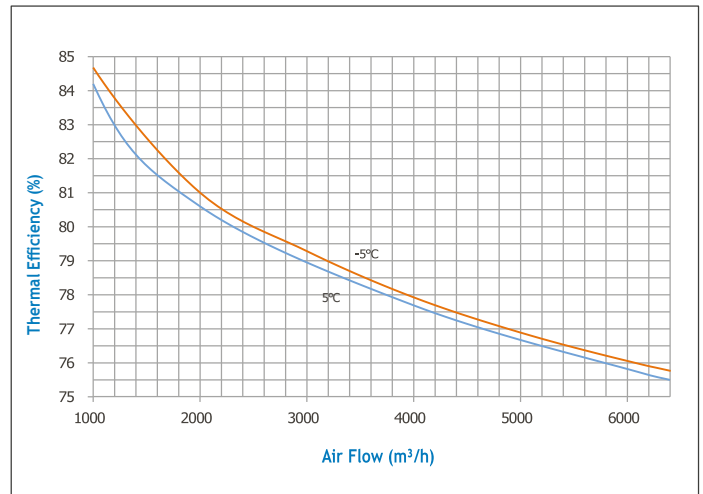
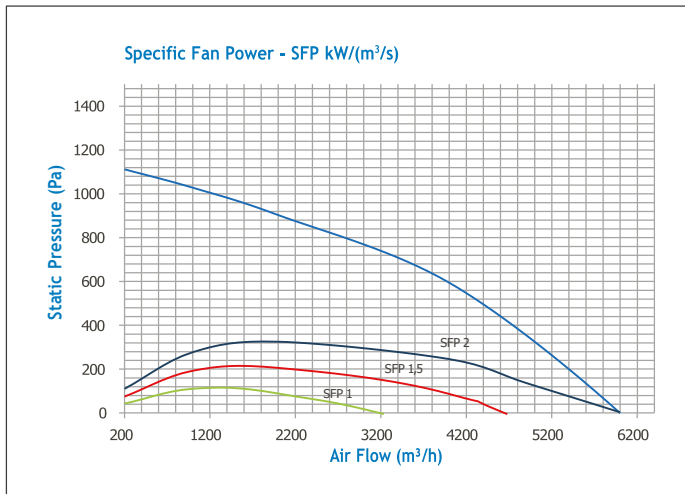
CTZU-2500



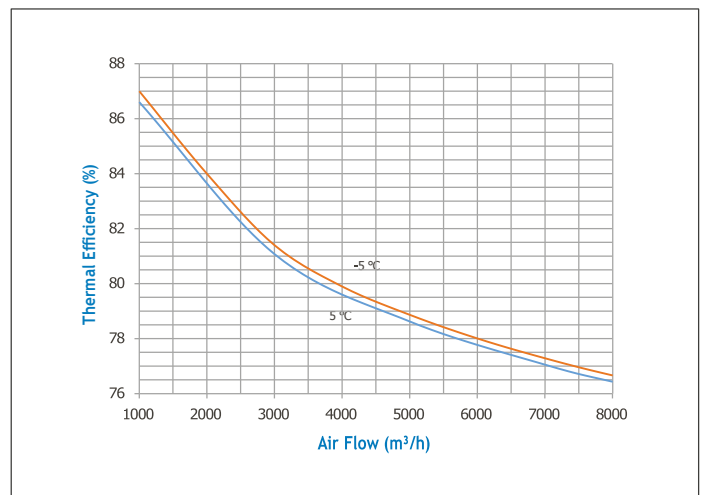
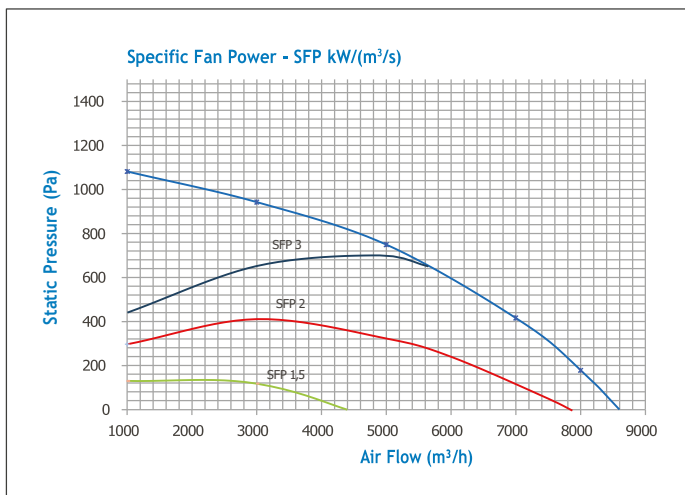
CTZU-4000



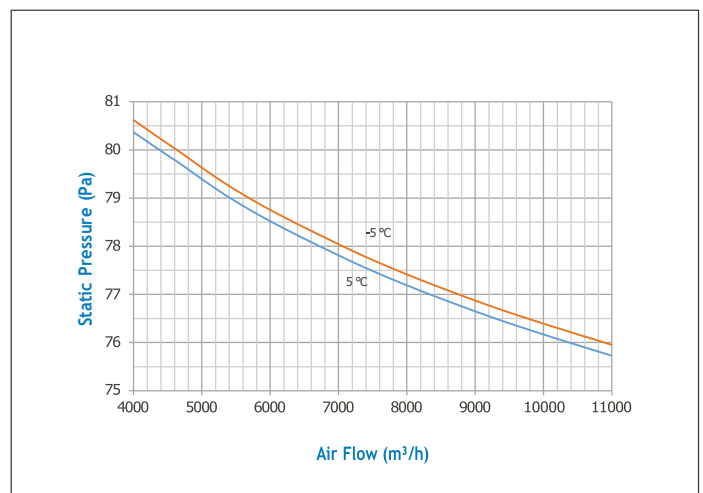
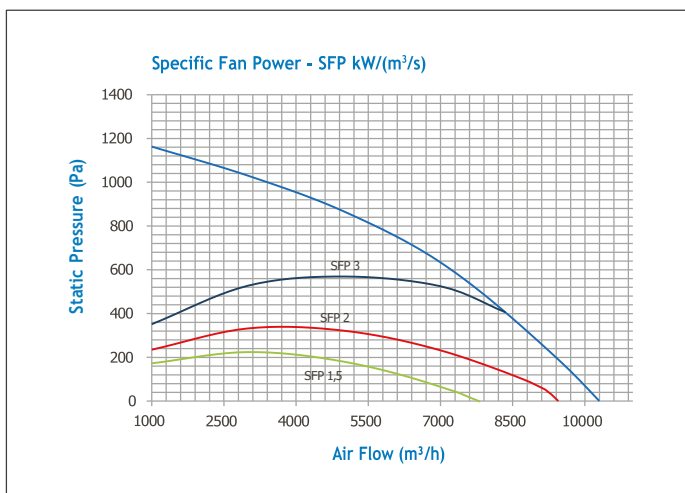
CTZU-6000



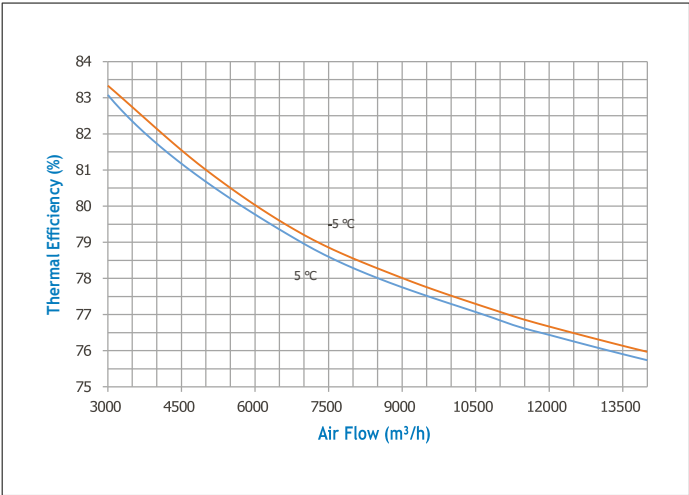
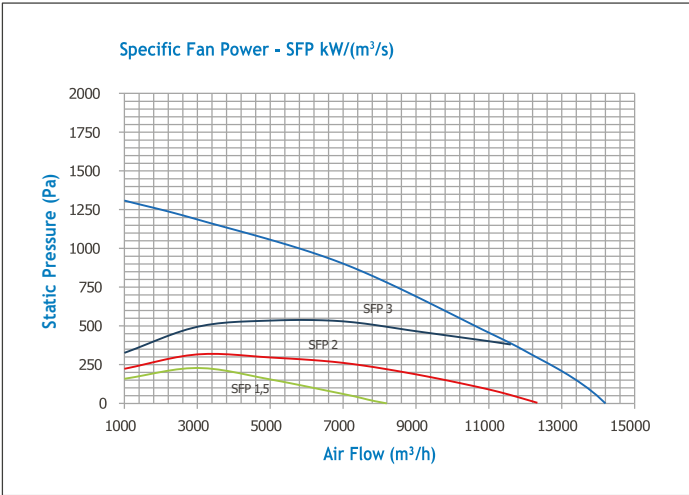
CTZU-8500



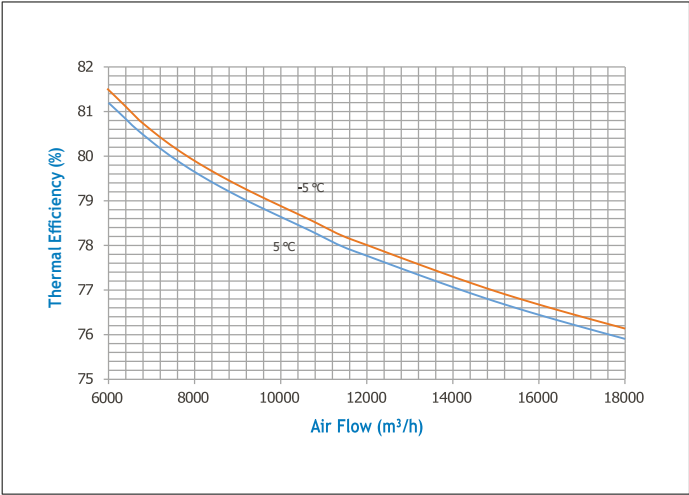
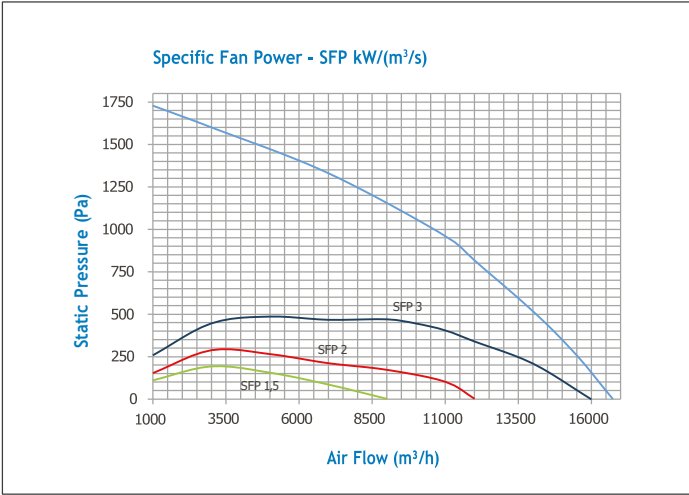
CTZU-11000



CTZU-14000

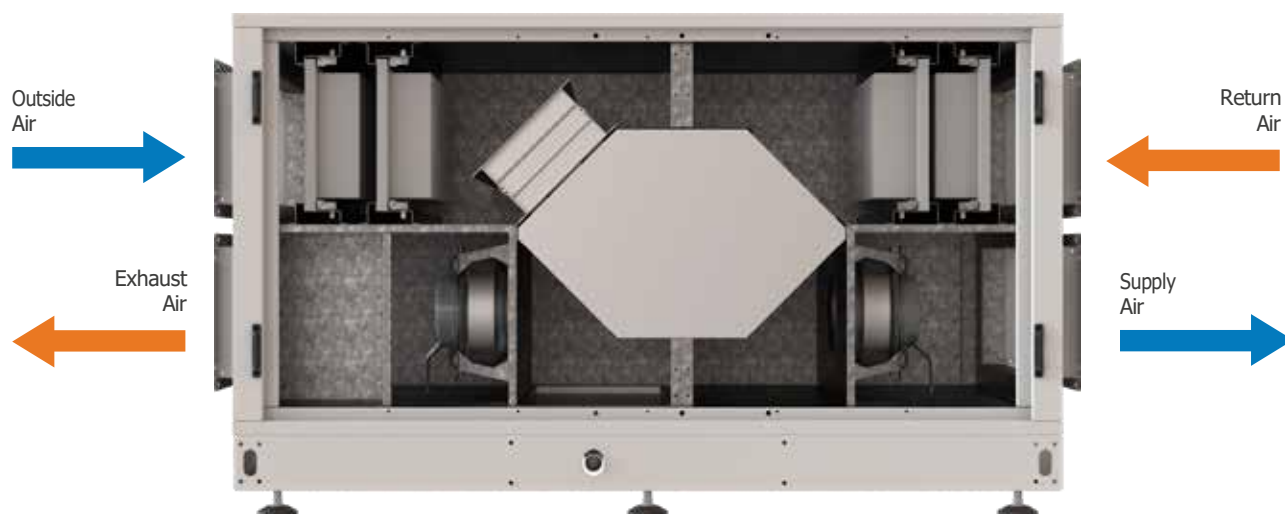


CTZU-17000

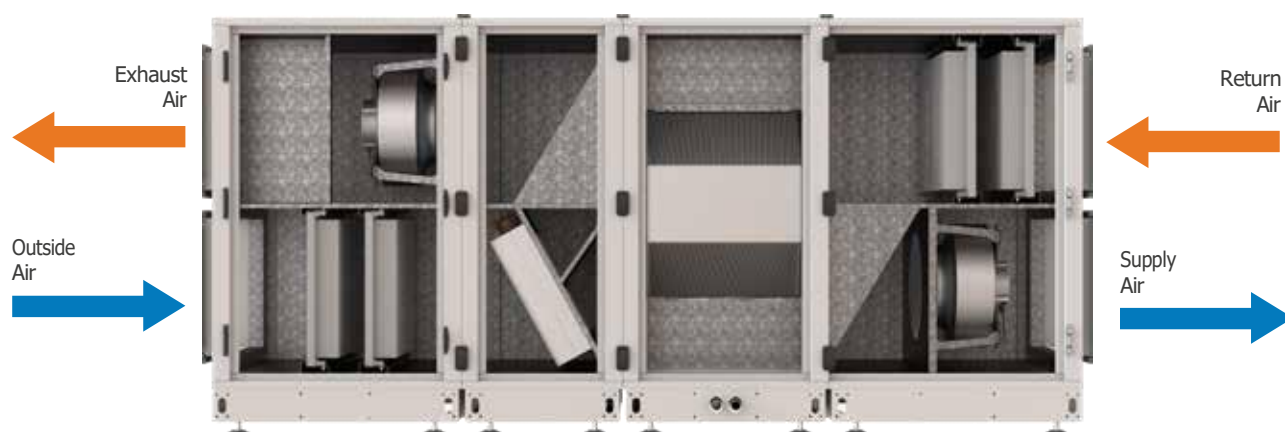


Air Flow Directions

CTZU - 1000/1600/2500



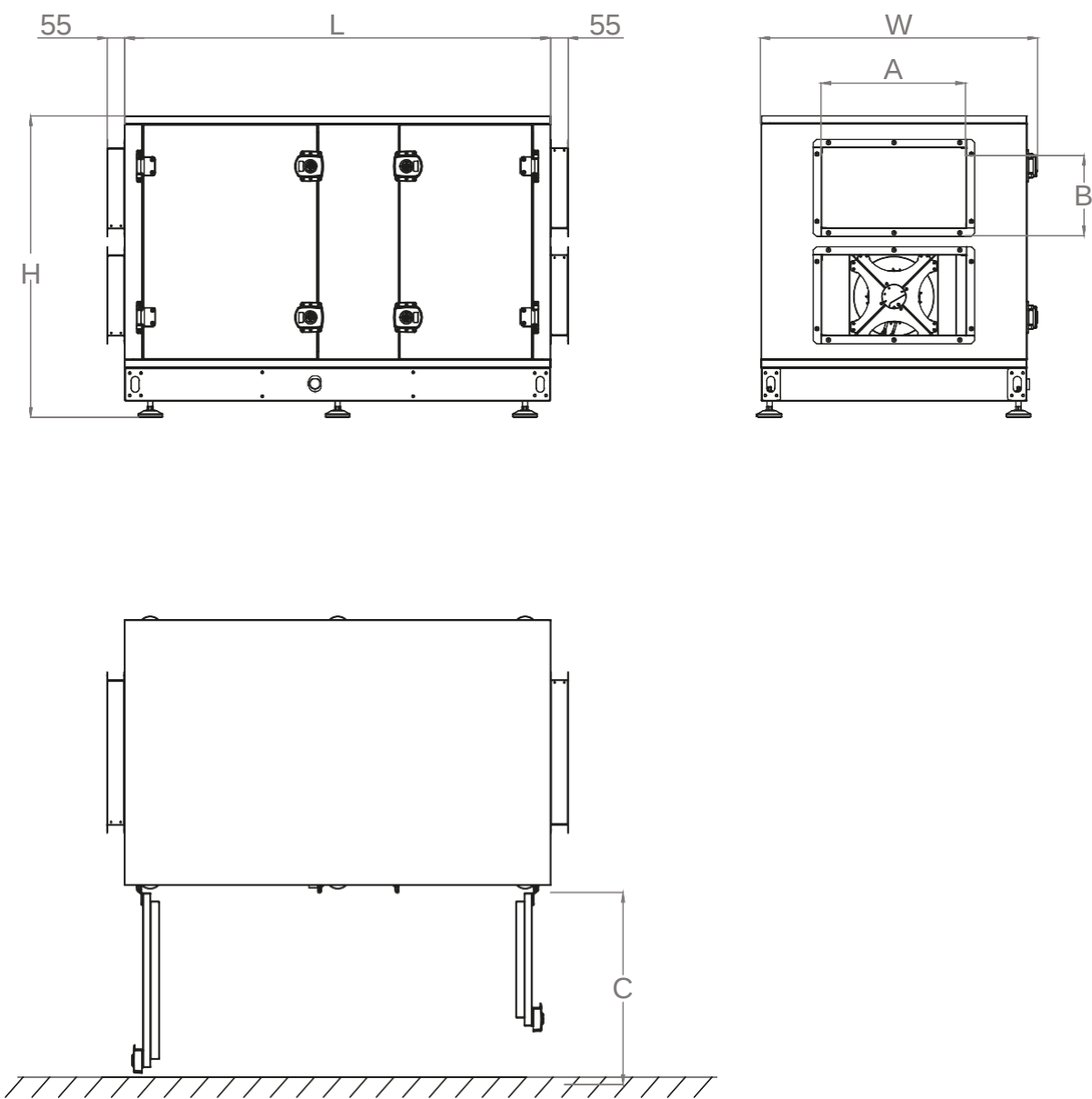
CTZU - 4000/6000/8500/11000/14000/17000



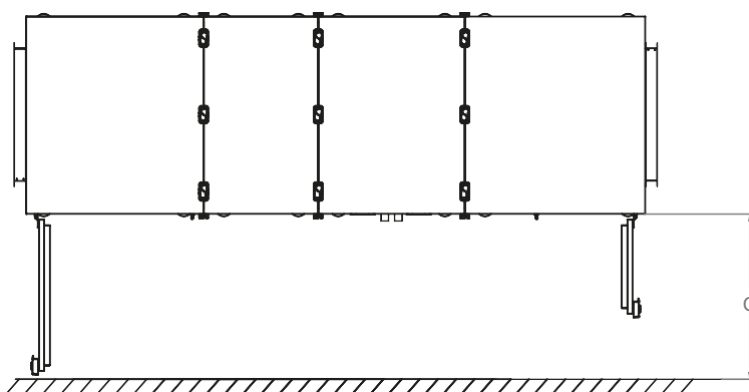
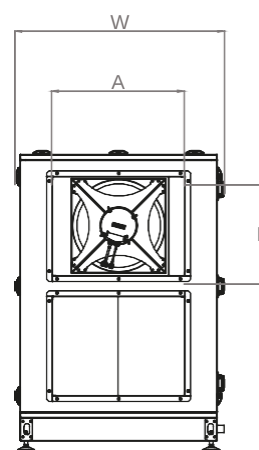
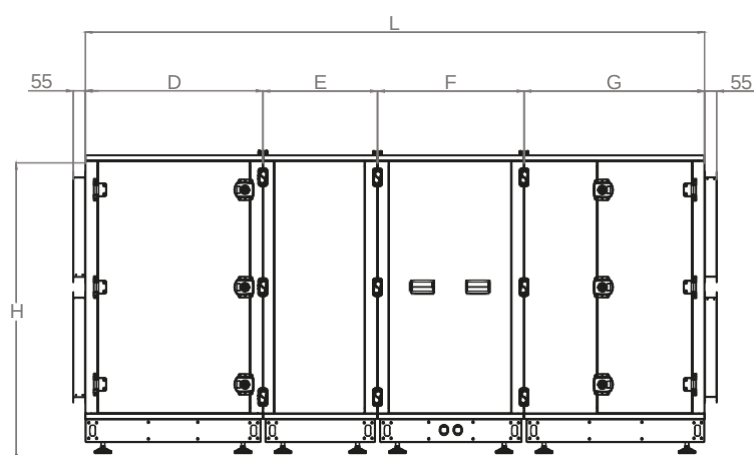
FANS		CTZU-1000	CTZU-1600	CTZU-2500	CTZU-4000	CTZU-6000	CTZU-8500	CTZU-11000	CTZU-14000	CTZU-17000*
SUPPLY FAN	Voltage (V)	230V~1	230V~1	230V~1	380~3	380~3	380~3	380~3	380~3	380~3
	RPM(1/min)	2510	3740	2100	2060	2180	2040	1910	1750	2680
	Power/current (W/A)	170W/1,4A	500W/2,2A	750W/3,3A	1320W/2,1A	1850W/2,9A	2730W/4,2A	3510W/5,4A	4700W/7,3A	3470W/5,3A
EXTRACT FAN	Voltage (V)	230V~1	230V~1	230V~1	380~3	380~3	380~3	380~3	380~3	380~3
	RPM(1/min)	2510	3740	2100	2060	2180	2040	1910	1750	2680
	Power/current (W/A)	170W/1,4A	500W/2,2A	750W/3,3A	1320W/2,1A	1850W/2,9A	2730W/4,2A	3510W/5,4A	4700W/7,3A	3470W/5,3A

*In CTZU-17000 units, two fans are used for supply and exhaust side.

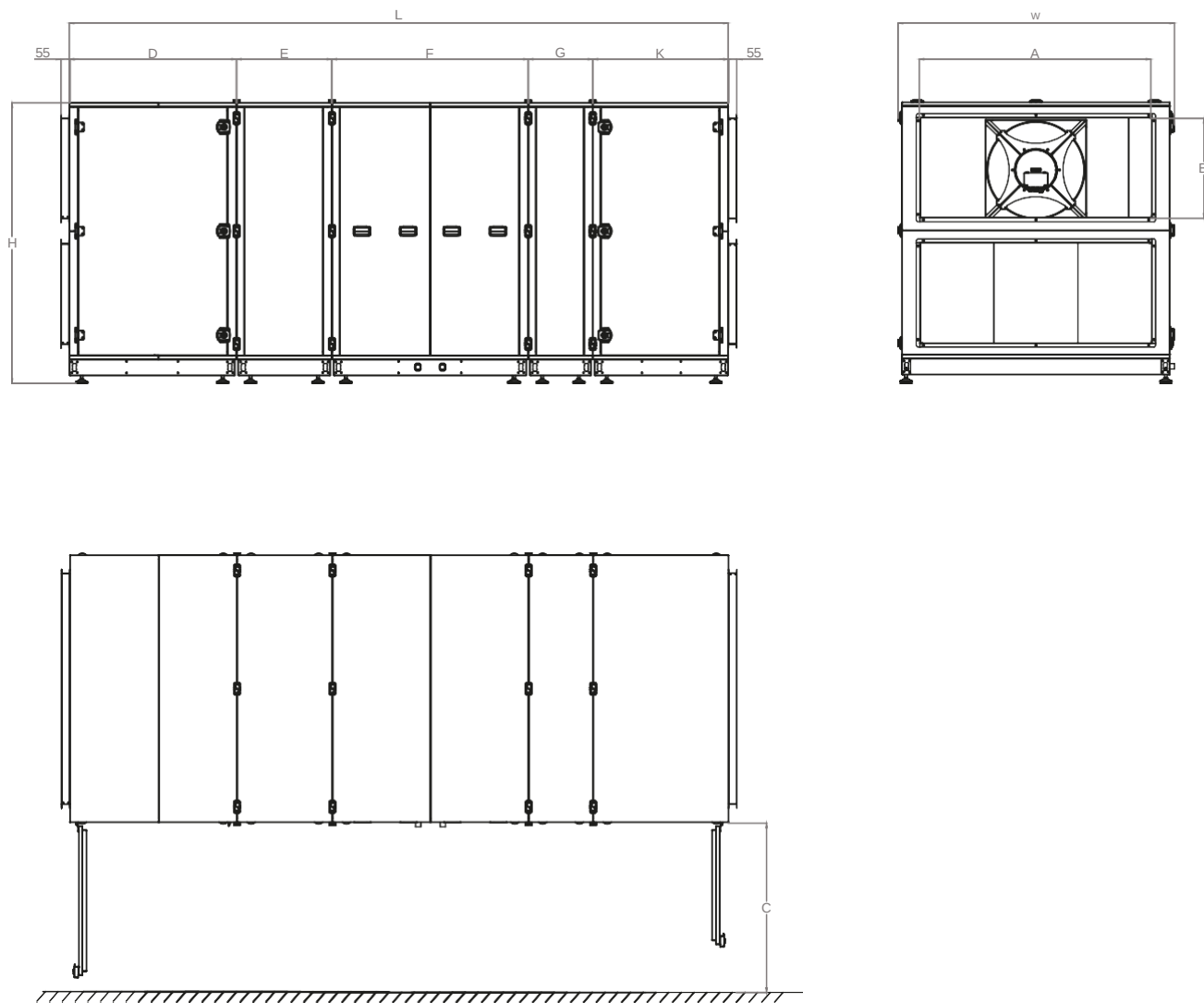
MODELS		CTZU-1000	CTZU-1600	CTZU-2500	CTZU-4000	CTZU-6000	CTZU-8500	CTZU-11000	CTZU-14000	CTZU-17000
Supply Filter	Class	ePM10 %70 + ePM1 %55								
Extract Filter	Class	ePM10 %70								
Insulation		50 mm								
Control System		Integrated								



MODEL	L	W	H	A	B	C	Weight (KG)
CTZU-1000	1330	865	945	450	250	650	300
CTZU-1600	1555	865	945	550	300	750	350
CTZU-2500	2060	865	1225	550	350	850	500



MODEL	L	W	H	A	B	C	D	E	F	G	Weight (KG)
CTZU-4000	2810	950	1355	600	450	750	805	518	664	818	750
CTZU-6000	3155	1230	1515	950	500	850	895	518	868	868	1250
CTZU-8500	3165	1790	1515	1200	500	1100	905	518	868	868	1950
CTZU-11000	3165	2075	1655	1450	600	1300	905	518	868	868	2520



MODEL	L	W	H	A	B	C	D	E	F	G	K	Weight (KG)
CTZU-1400	4280	1790	1825	1500	650	1100	1085	618	1275	418	878	3200
CTZU-1700	4885	1790	1955	1500	650	1100	885	818	1680	618	878	3950



Operation	Description	Availability
On / Off	Control panel or external start stop function is available.	Standard
Display	Digital control panel is available.	Standard
Display	Wireless controller is available as option.	Optional
Fan Speed Control	3 steps fan speed control of supply and exhaust fan is available.	Standard
Fan Speed Control	Constant air flow is available with pressure sensors.	Optional
Fan Speed Control	Airflow control based on the air quality sensor is available.	Optional
Bypass Damper Function	Free cooling is available, by controlling the indoor and outdoor air conditions.	Standard
ModBus	It controls all functions of unit via PC or central control system board.	Standard
Filter Function	There are 2 alternatives to control filters: Alternative 1: It records run time of the unit and when set time expires, control panel gives an alert for filter change. Alternative 2: Filter change time can be controlled with pressure switch mechanically. By this way, control panel gives an alert when filter needs to be changed.	Standard
Boost Function	It is used in order to increase fan speed: Alternative 1: Via boost button on the control panel. Alternative 2: Via dry contact or light power input (230V) on PCB board.	Standard
Safety	It automatically stops operating in case of interfering to the unit while it is working.	Standard
Fire Alarm Function	It will be active in case of fire.	Standard
Wireless Sensors	Upon request, wireless CO2, differential pressure, temperature and humidity sensors are available.	Optional
Heating Coil	Heating coil valves on the devices which include optional heating coil, are controlled by proportional valve motors with PID logic and sensitivity.	Optional
Frost Control	Optional heating coils also include frost thermostat to prevent coil freeze.	Optional