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AIR DIFFUSION

HyFlex-Geko

HyFlex-Geko

» INNOVATIVE AND FLEXIBLE FAN COIL UNIT



Whoever treats air must master it

LEADING THE WAY IN AIR TECHNOLOGY

As an international leader in Air Technology solutions, FläktGroup's mission is to concentrate on developing technology and components to deliver excellent indoor Air Comfort in diverse final markets. FläktGroup combines all activities in the area of heat exchanging and air treatment systems to offer one of the world-wide largest product range in this field. What makes us unique and a preferred partner, is a perfect fit, reliable and sustainable solutions – FläktGroup fan coils are a clear testament to our quality and innovation capability.

DECENTRALISED AIR DIFFUSION WITH HIGH COMFORT AND EFFICIENCY

Where heating, cooling, filtering, humidification and dehumidification of air is required, FläktGroup makes its contribution to progress. Customised climate control and air treatment, with the maximum-possible reduction of energy consumption over the entire life cycle of the facilities: in providing attractive properties, in comfort, and in work productivity.

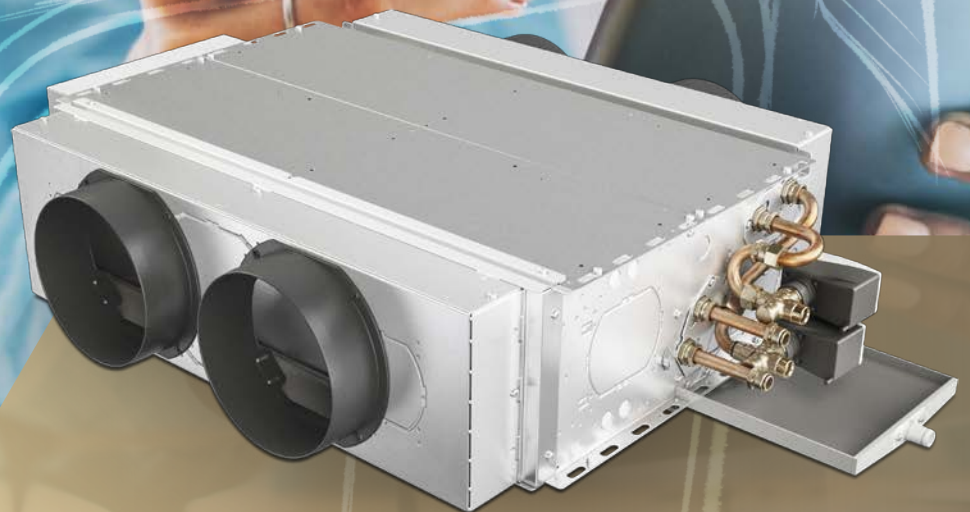
RAPID AND EFFICIENT HEATING, COOLING AND VENTILATION IN ONE UNIT

Unlike radiators and classical flat radiators, fan-coil units not only can heat rooms, but can also cool and ventilate them. FläktGroup fan-coil units offer all possibilities of a Demand Controlled Ventilation (DCV) and can be employed everywhere where comfortable warmth, cooling or air ventilation with a rapid adaptation is required.

FläktGroup fan-coil units actively guide the air to be processed through the heat exchanger, whereby it is heated and cooled effectively. They bring the room air to the desired temperature faster, and operate with smaller heating or cooling surfaces. Their enhanced heat transfer enables lower feed temperatures during heating, and higher feed temperatures during cooling. This minimises losses and saves energy between the boiler or the chiller and the final unit.

YOUR PARTNER FOR AIR TREATMENT

- More than 40 years of experience
- Customised air quality and a healthy, comfortable indoor climate with extremely low-noise operation and maximum energy efficiency
- State-of-the-art technology while compliant with current legal directives
- Certified quality
- Simple system integration
- Low maintenance costs



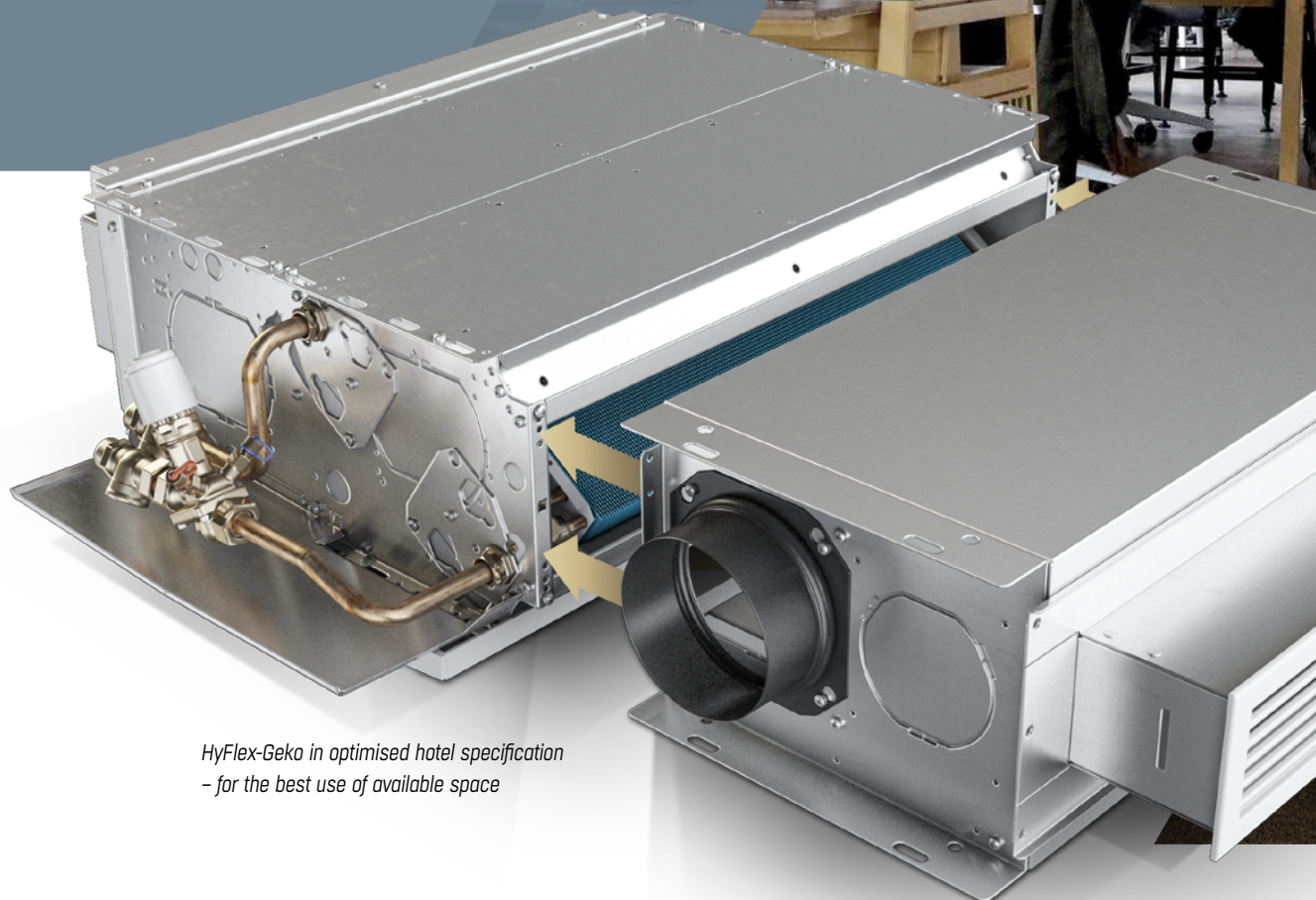
HEATING & COOLING

The HyFlex-Geko fan coil units ensure a whisper-quiet and comfortable feelgood climate at maximum energy efficiency, hygiene level and optimal room air temperature distribution.

Introducing the new HyFlex-Geko

With the new HyFlex-Geko that is part of our innovative fan coil family, we have created a new level of flexibility and performance. What was previously classified as great now defines a new high. HyFlex-Geko definitely lives up to its name. High flexibility, high performance, hygiene, high-speed selection, high-speed installation and high-speed maintenance is in every detail based on high customer orientation.

The “plug and play” units are easy to install. Demand-driven heating and cooling and a very low sound power level facilitate the optimal room temperature and comfort. The HyFlex-Geko is very easy to clean and disinfect and finally comes with comprehensive documentation and design details for evaluation.



*HyFlex-Geko in optimised hotel specification
– for the best use of available space*



TAKING OUR FAN COIL RANGE TO NEW HY'S

FLEXIBILITY

SELECTION SPEED

INSTALLATION SPEED

MAINTENANCE EASE

PERFORMANCE

HYGIENE LEVELS

Highly variable solution for different applications



Due to the modular, flexible and hygienic concept, HyFlex-Geko can be used for many different applications. They heat, cool and ventilate offices, sales rooms and medical institutions. Hotels and HyFlex-Geko is an excellent match because of its reliable and extremely quiet operation. With their economical operation, fast and easy selection, installation and maintenance as well as different usage options, the HyFlex-Geko fan-coil units set the new benchmark for flexible, high performance, hygienic and energy efficient climate solutions.

> **Hygiene and Comfort**
– one solution for a wide range of applications



HyFlex-Geko is suitable both for wall and ceiling mounting. They can be mounted virtually invisibly as base units with the required air outlets behind a wall or above a suspended ceiling.



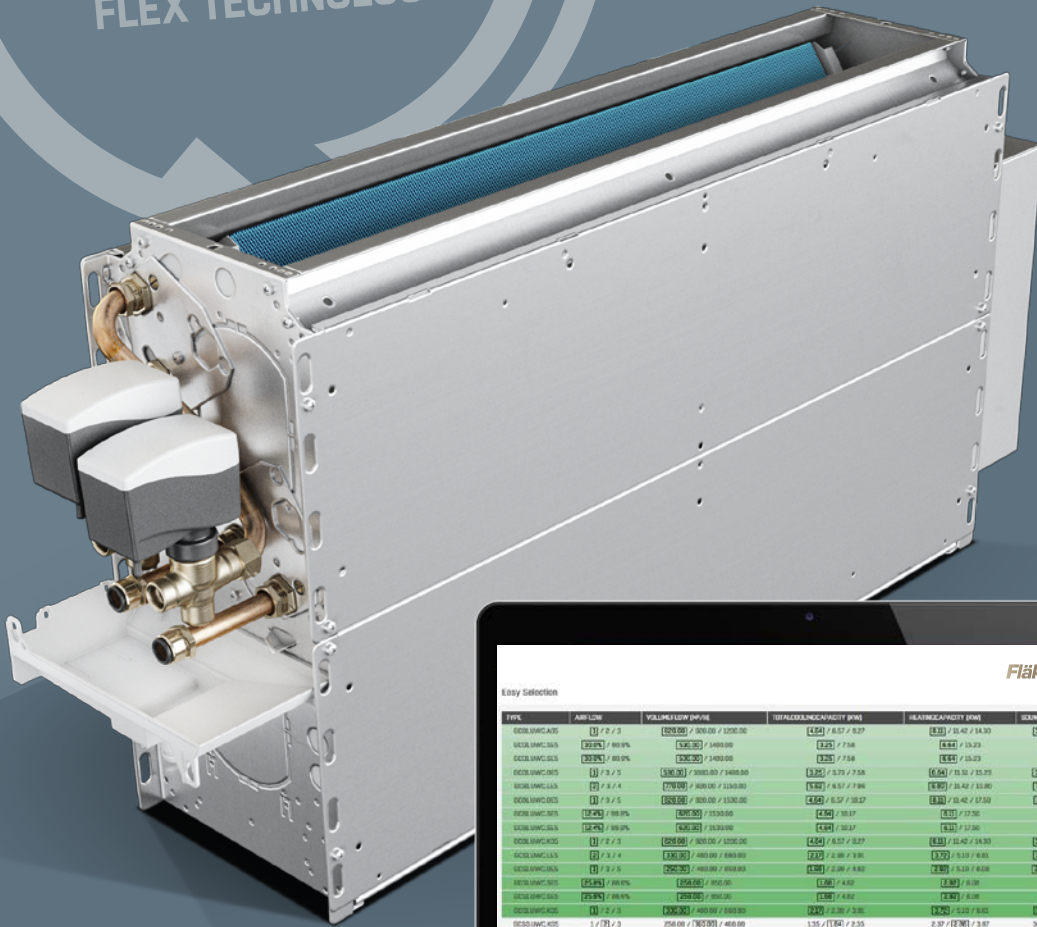
HyFlex-Geko is an ideal solution for

- Hotels
- Offices
- Hospitals
- Medical institutions
- Showrooms and shops
- Restaurants and cafés



NO MATTER WHICH SIDE OR ORIENTATION – YOU CAN ALWAYS MAKE HyFlex-Geko FIT

With the 360° Flex Technology it is easy to change the connection side by simply turning the device. Similarly, with a simple conversion it is possible to modify a wall unit to fit a ceiling assembly and of course vice versa. The HyFlex-Geko can be attached to a variety of devices and offers a multitude of accessories, which can be used to meet any requirement of the different applications.



FlaktGroup

Easy Selection

TYPE	AIR FLOW	VOLUME FLOW (m³/h)	TOTAL SOUND CAPACITY (dB(A))	HEAT CAPACITY (kW)	SOUND POWER (dB(A))
DCBLHMC40S	1 / 2 / 3	1500 / 3000 / 4500.00	1.62 / 4.57 / 8.07	0.33 / 0.42 / 0.50	54.30 / 48.40 / 52.40
DCBLHMC45S	1 / 2 / 3	1500 / 3000 / 4500.00	1.55 / 4.38 / 7.98	0.32 / 0.41 / 0.49	53.70 / 47.80 / 51.80
DCBLHMC50S	1 / 2 / 3	1500 / 3000 / 4500.00	1.50 / 4.25 / 7.68	0.31 / 0.40 / 0.48	53.10 / 47.20 / 51.20
DCBLHMC60S	1 / 2 / 3	1500 / 3000 / 4500.00	1.32 / 3.75 / 6.68	0.26 / 0.35 / 0.43	51.50 / 45.60 / 49.60
DCBLHMC75S	1 / 2 / 3	1500 / 3000 / 4500.00	1.15 / 3.25 / 5.88	0.22 / 0.31 / 0.39	49.90 / 44.00 / 48.00
DCBLHMC90S	1 / 2 / 3	1500 / 3000 / 4500.00	0.98 / 2.75 / 5.07	0.18 / 0.27 / 0.35	48.30 / 42.40 / 46.40
DCBLHMC105S	1 / 2 / 3	1500 / 3000 / 4500.00	0.82 / 2.37 / 4.37	0.15 / 0.24 / 0.32	46.70 / 40.80 / 44.80
DCBLHMC120S	1 / 2 / 3	1500 / 3000 / 4500.00	0.68 / 1.97 / 3.67	0.12 / 0.21 / 0.29	45.10 / 39.20 / 43.20
DCBLHMC150S	1 / 2 / 3	1500 / 3000 / 4500.00	0.48 / 1.37 / 2.57	0.08 / 0.17 / 0.25	43.50 / 37.60 / 41.60
DCBLHMC180S	1 / 2 / 3	1500 / 3000 / 4500.00	0.32 / 0.92 / 1.72	0.05 / 0.11 / 0.16	41.90 / 36.00 / 40.00
DCBLHMC210S	1 / 2 / 3	1500 / 3000 / 4500.00	0.18 / 0.52 / 0.97	0.03 / 0.06 / 0.10	40.30 / 34.40 / 38.40
DCBLHMC240S	1 / 2 / 3	1500 / 3000 / 4500.00	0.12 / 0.35 / 0.65	0.02 / 0.04 / 0.06	38.70 / 32.80 / 36.80
DCBLHMC300S	1 / 2 / 3	1500 / 3000 / 4500.00	0.08 / 0.23 / 0.43	0.01 / 0.03 / 0.05	37.10 / 31.20 / 35.20
DCBLHMC360S	1 / 2 / 3	1500 / 3000 / 4500.00	0.05 / 0.15 / 0.28	0.01 / 0.02 / 0.03	35.50 / 29.60 / 33.60
DCBLHMC420S	1 / 2 / 3	1500 / 3000 / 4500.00	0.03 / 0.10 / 0.18	0.01 / 0.01 / 0.02	33.90 / 28.00 / 32.00
DCBLHMC480S	1 / 2 / 3	1500 / 3000 / 4500.00	0.02 / 0.07 / 0.13	0.01 / 0.01 / 0.02	32.30 / 26.40 / 30.40
DCBLHMC540S	1 / 2 / 3	1500 / 3000 / 4500.00	0.01 / 0.05 / 0.09	0.01 / 0.01 / 0.01	30.70 / 24.80 / 28.80
DCBLHMC600S	1 / 2 / 3	1500 / 3000 / 4500.00	0.01 / 0.03 / 0.06	0.01 / 0.01 / 0.01	29.10 / 23.20 / 27.20
DCBLHMC660S	1 / 2 / 3	1500 / 3000 / 4500.00	0.01 / 0.02 / 0.04	0.01 / 0.01 / 0.01	27.50 / 21.60 / 25.60
DCBLHMC720S	1 / 2 / 3	1500 / 3000 / 4500.00	0.01 / 0.02 / 0.03	0.01 / 0.01 / 0.01	25.90 / 20.00 / 24.00
DCBLHMC780S	1 / 2 / 3	1500 / 3000 / 4500.00	0.01 / 0.01 / 0.02	0.01 / 0.01 / 0.01	24.30 / 18.40 / 22.40
DCBLHMC840S	1 / 2 / 3	1500 / 3000 / 4500.00	0.01 / 0.01 / 0.01	0.01 / 0.01 / 0.01	22.70 / 16.80 / 20.80
DCBLHMC900S	1 / 2 / 3	1500 / 3000 / 4500.00	0.01 / 0.01 / 0.01	0.01 / 0.01 / 0.01	21.10 / 15.20 / 19.20

EASY SELECTION AND DESIGN

Based on your needed performances and sound requirements you are able to select the suitable type within 60 seconds.

Easy and flexible

During the development of the HyFlex-Geko every single technical component has been optimised to maximise performance. We have also worked extremely hard on making every interaction with the product as easy and intuitive as possible – from selection to installation and maintenance. We believe it will make a significant difference all through the products life-cycle.

SAFETY

A hygienic solution to avoid bacteria growth in air conducting devices. Easy access for simple cleaning.



“PLUG AND PLAY”

Following the “plug-and-play” principle accessories for quick and easy installation are already pre-mounted at delivery.



POWER

Efficient and quiet EC-fan with XT „eXtended Technology”; maintenance-free silent ball bearings & special silent electromotor. Applicable up to 70 Pa external pressure drop.

EFFICIENT

Flexible piping connections for efficient space usage in your building.

HIGH PERFORMANCE

Pressure Independent valve control providing high performance and energy savings due to an automatic balanced system.

LEFT/RIGHT 360° FLEXIBILITY

Possibility to turn the unit for changing the water connection side without having to order left/right units resulting in less needed installation time.



EASY MOUNTING

Available drilling guide for easy and fast mounting.

ADAPTION

Flexible choice between preinstalled plenum with nozzles for easy installation or with pre-punched design for easy transport.



CONNECTIVITY

State-of-the-art ISYteq control with an excellent connectivity for easy commissioning, maintenance and operation.

EASY ACCESS

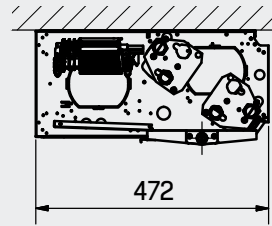
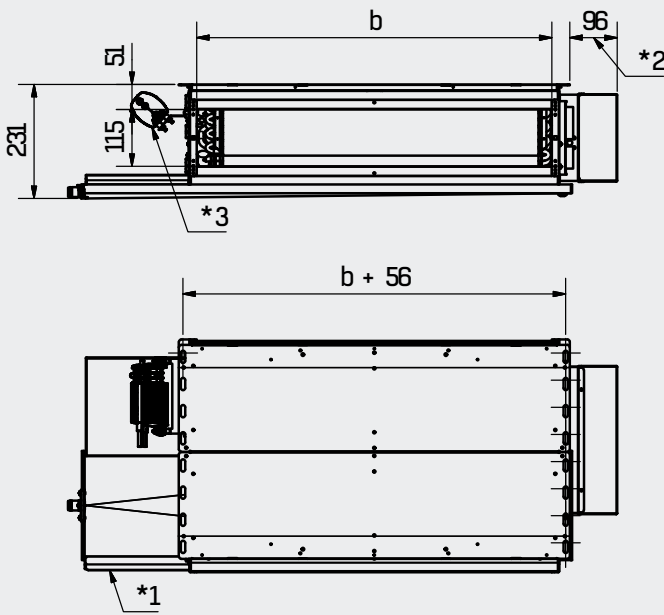
No need of big revision openings due to the folded filter with an easy filter change from the side.

CUSTOMISATION

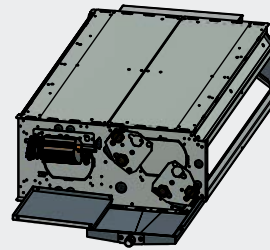
Suitable for every application due to wide range and high variety of accessories.

Dimensions

Ceiling installation



- *1 condensate tray (standard for units with cooling function)*
- *2 big control box; smaller control box is 68 mm vs 96 mm*
- *3 condensate pump is optional*

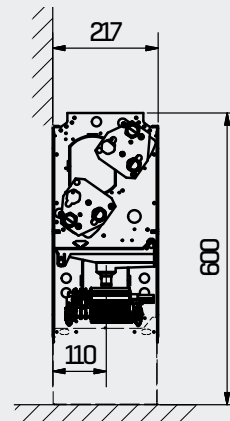
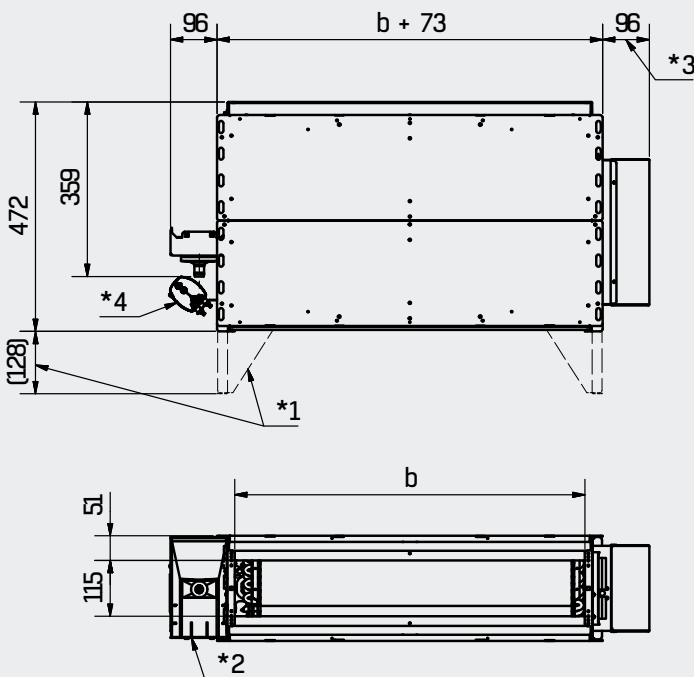


Drawing for coil connection on the left side, to be reversed for coil connection on the right side.

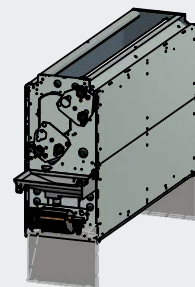
Unit size	1	2	3	4	6	8
b (mm)	420	570	720	870	1.170	1.470

Dimensions

Wall installation



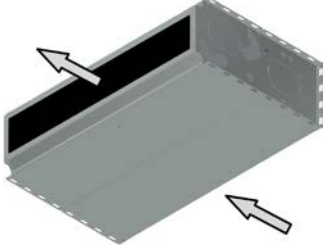
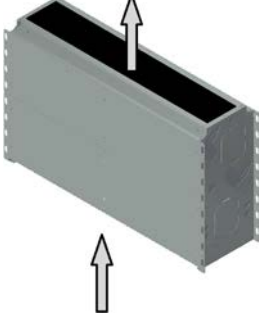
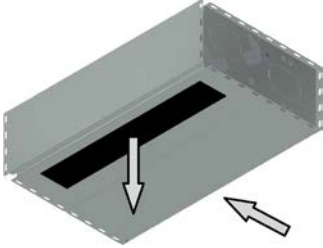
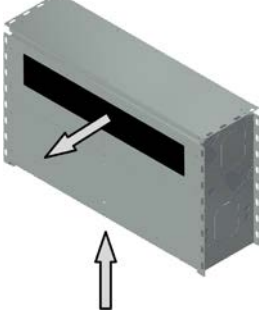
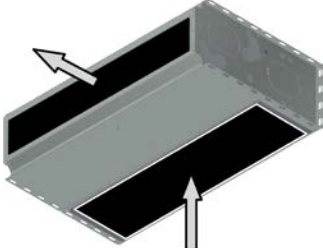
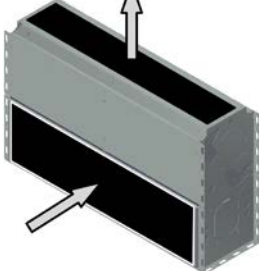
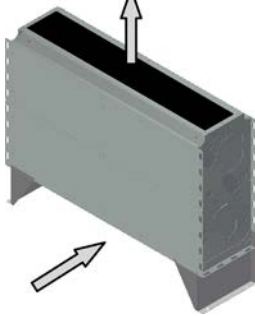
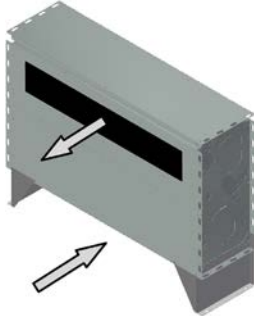
- *1 pedestal for floor-mounted application (optional); distance to floor min. 128 mm recommended for wall installation*
- *2 condensate tray (standard for units with cooling function)*
- *3 big control box; smaller control box is 68 mm vs 96 mm*
- *4 condensate pump is optional*



Drawing for coil connection on the left side, to be reversed for coil connection on the right side.

Unit size	1	2	3	4	6	8
b (mm)	420	570	720	870	1.170	1.470

Air directions overview

AIR DIRECTION	HORIZONTAL	VERTICAL
I		
P		
L		
AIR DIRECTION	I	P
Vertical units with feet		



With the new **HyFlex-Geko**[®] we are taking flexibility and adaptability to a whole new level. With a complete range of plug & play accessories, if you can imagine it you can build it!

Outlet side

ORDERING CODE	DESCRIPTION
ZGS.#A042.00	Discharge Plenum for round spigots DN200, prepared perforation
ZGS.#A042.19	Discharge Plenum with round plastic spigots, DN200
ZGS.#A212.00	Sound attenuator
ZGS.#A022.18	Discharge plenum with primary air plastic spigots, DN125
ZGS.#A112.00	Flexible connection
ZGS.#A152.00	Telescopic Adapter
ZGS.1A062.00	Discharge bend 90°
ZGS.#A082.00	Rectangular discharge chamber for round spigots with prepared perforation DN200/DN125
ZGS.#A082.1A	Rectangular discharge chamber with plastic round spigots DN200/DN125
ZGS.#A0P2.00	Discharge panel for round spigots DN200 perforated
ZGS.#A0P2.19	Discharge panel with round plastic spigots DN200
ZGS.#A0R2.00	Discharge panel with rectangular opening
ZGS.#A312.00	Adaptor for outlet grille
ZGS.#AG12.00	Outlet grill

Inlet side

ORDERING CODE	DESCRIPTION
ZGS.#A031.00	Intake Plenum for round spigots DN200, prepared perforation
ZGS.#A031.19	Intake Plenum with round plastic spigots DN200
ZGS.#A211.00	Sound attenuator
ZGS.#A131.00	Adaptor for flexible connector
ZGS.#A111.00	Flexible connection
ZGS.#A151.00	Telescopic Adapter
ZGS.1A051.00	Intake bend 90°
ZGS.#A071.00	Rectangular intake chamber for round spigots with prepared perforation DN200/DN125
ZGS.#A071.1A	Rectangular intake chamber with round spigots DN200/DN125
ZGS.#A0P1.00	Intake panel for round spigots DN200 perforated
ZGS.#A0P1.19	Intake panel with round plastic spigots DN200
ZGS.#A0R1.00	Intake panel with rectangular opening

> 2-pipe system - chilled water / warm water

Size	Speed	AC MOTOR						EC MOTOR						Width**	Depth	Height	Weight
		Air flow rate	Cooling capacity***	Heating capacity***	Sound pressure level*	Power consumption	Current consumption	Air flow rate	Cooling capacity***	Heating capacity***	Sound pressure level*	Power consumption	Current consumption				
		m ³ /h	kW	kW	dB(A)	W	A	m ³ /h	kW	kW	dB(A)	W	A				
1	min	150	1,1	1,1	20	14	0,14	140	1,0	1,0	19	3	0,05				
	med	260	1,7	1,7	36	49	0,24	240	1,6	1,6	32	6	0,07	814	472	231	17
	max	500	2,7	2,9	50	58	0,27	495	2,7	2,8	49	35	0,31				
2	min	165	1,3	1,3	25	14	0,15	170	1,3	1,3	23	3	0,05				
	med	265	1,9	1,9	35	52	0,24	255	1,8	1,8	32	6	0,06	964	472	231	20
	max	530	3,2	3,3	50	65	0,30	575	3,4	3,6	53	40	0,33				
3	min	245	1,9	1,9	20	10	0,14	240	1,8	1,8	21	4	0,05				
	med	435	3,0	3,0	35	49	0,23	430	2,9	3,0	34	10	0,10	1114	472	231	24
	max	800	4,8	4,9	50	79	0,36	790	4,7	4,9	49	48	0,39				
4	min	270	2,1	2,1	19	10	0,14	280	2,2	2,2	18	4	0,05				
	med	470	3,3	3,4	34	50	0,24	450	3,2	3,3	30	8	0,08	1264	472	231	27
	max	905	5,6	5,8	49	83	0,37	900	5,6	5,8	49	51	0,41				
6	min	415	3,2	3,2	25	25	0,28	425	3,3	3,3	26	6	0,06				
	med	750	5,2	5,3	40	104	0,47	710	5,0	5,1	37	14	0,12	1564	472	231	34
	max	1270	7,9	8,2	53	135	0,61	1490	9,0	9,2	54	94	0,75				
8	min	490	3,9	3,8	24	20	0,28	490	3,9	3,8	21	7	0,09				
	med	905	6,4	6,5	37	100	0,48	885	6,3	6,4	36	19	0,19	1864	472	231	41
	max	1675	10,4	10,7	52	164	0,73	1670	10,4	10,7	52	100	0,81				

> 4-pipe system - chilled water / warm water

Size	Speed	AC MOTOR						EC MOTOR						Width**	Depth	Height	Weight
		Air flow rate	Cooling capacity***	Heating capacity***	Sound pressure level*	Power consumption	Current consumption	Air flow rate	Cooling capacity***	Heating capacity***	Sound pressure level*	Power consumption	Current consumption				
		m ³ /h	kW	kW	dB(A)	W	A	m ³ /h	kW	kW	dB(A)	W	A				
1	min	150	1,0	1,0	20	14	0,14	140	0,9	1,0	19	3	0,05				
	med	260	1,5	1,4	36	49	0,24	240	1,4	1,4	32	6	0,07	814	472	231	17
	max	500	2,4	2,1	50	58	0,27	495	2,4	2,1	49	35	0,31				
2	min	165	1,2	1,3	25	14	0,15	170	1,2	1,3	23	3	0,05				
	med	265	1,7	1,7	35	52	0,24	255	1,6	1,7	32	6	0,06	964	472	231	20
	max	530	2,9	2,6	50	65	0,30	575	3,0	2,7	53	40	0,33				
3	min	245	1,7	1,9	20	10	0,14	240	1,7	1,8	21	4	0,05				
	med	435	2,7	2,6	35	49	0,23	430	2,7	2,6	34	10	0,10	1114	472	231	24
	max	800	4,3	3,7	50	79	0,36	790	4,2	3,7	49	48	0,39				
4	min	270	1,9	2,2	19	10	0,14	280	2,0	2,2	18	4	0,05				
	med	470	3,0	3,0	34	50	0,24	450	2,9	3,0	30	8	0,08	1264	472	231	27
	max	905	5,0	4,4	49	83	0,37	900	5,0	4,4	49	51	0,41				
6	min	415	2,9	3,2	25	25	0,28	425	3,0	3,3	26	6	0,06				
	med	750	4,7	4,6	40	104	0,47	710	4,5	4,5	37	14	0,12	1564	472	231	34
	max	1270	7,0	6,2	53	135	0,61	1490	7,9	6,8	54	94	0,75				
8	min	490	3,5	3,9	24	20	0,28	490	3,5	3,9	21	7	0,09				
	med	905	5,8	5,7	37	100	0,48	885	5,7	5,6	36	19	0,19	1864	472	231	41
	max	1675	9,2	8,0	52	164	0,73	1670	9,2	8,0	52	100	0,81				

* Sound pressure level – distance 5m, 100 m³ room, reverbration time 0,5 sec, radiation factor: room corner

** Width of a horizontal unit in standard execution

*** Cooling performances are based on 27°C/47% room temperature and 7/12°C water temperature; heating performances are based on 20°C room temperature and 45/40°C water temperature for 2-pipe systems and 65/55°C water temperature for 4-pipe systems

> 2-pipe system - chilled water / warm water

EC MOTOR HIGH PRESSURE													
Size	Speed	Air flow rate	Cooling capacity***	Heating capacity***	Available static pressure	Sound pressure level*	Power consumption	Current consumption	Width**	Depth	Height	Weight	
		m ³ /h	kW	kW	Pa	dB(A)	W	A					
1	min	80	0,6	0,6	4	10	3	0,05					
	med	280	1,8	1,8	50	39	24	0,27	814	472	231	19	
	max	420	2,4	2,5	112	49	72	0,72					
2	min	90	0,8	0,7	4	11	3	0,06					
	med	300	2,1	2,1	50	38	23	0,28	964	472	231	23	
	max	470	2,9	3,0	123	49	72	0,78					
3	min	180	1,4	1,4	9	20	6	0,06					
	med	400	2,8	2,8	50	40	26	0,33	1114	472	231	28	
	max	620	3,9	4,0	120	51	88	0,98					
4	min	215	1,8	1,7	9	21	6	0,08					
	med	500	3,5	3,6	50	40	31	0,37	1264	472	231	32	
	max	775	5,0	5,1	120	51	106	1,18					
6	min	180	1,6	1,5	5	12	4	0,05					
	med	570	4,2	4,2	50	40	36	0,45	1564	472	231	41	
	max	840	5,7	5,9	109	50	110	1,06					
8	min	240	2,2	2,0	5	16	5	0,02					
	med	700	5,2	5,2	50	41	46	0,53	1864	472	231	50	
	max	980	6,8	7,0	98	50	120	0,95					

> 4-pipe system - chilled water / warm water

EC MOTOR HIGH PRESSURE													
Size	Speed	Air flow rate	Cooling capacity***	Heating capacity***	Available static pressure	Sound pressure level*	Power consumption	Current consumption	Width**	Depth	Height	Weight	
		m ³ /h	kW	kW	Pa	dB(A)	W	A					
1	min	80	0,6	0,7	4	10	3	0,05					
	med	280	1,6	1,5	50	39	24	0,27	814	472	231	19	
	max	420	2,1	1,9	112	49	72	0,72					
2	min	90	0,7	0,9	4	11	3	0,06					
	med	300	1,9	1,9	50	38	23	0,28	964	472	231	23	
	max	470	2,6	2,4	123	49	72	0,78					
3	min	180	1,3	1,5	9	20	6	0,06					
	med	400	2,5	2,5	50	40	26	0,33	1114	472	231	28	
	max	620	3,5	3,2	120	51	88	0,98					
4	min	215	1,6	1,9	9	21	6	0,08					
	med	500	3,2	3,2	50	40	31	0,37	1264	472	231	32	
	max	775	4,4	4,1	120	51	106	1,18					
6	min	180	1,5	1,8	5	12	4	0,05					
	med	570	3,8	3,9	50	40	36	0,45	1564	472	231	41	
	max	840	5,2	4,9	109	50	110	1,06					
8	min	240	2,0	2,4	5	16	5	0,02					
	med	700	4,7	4,9	50	41	46	0,53	1864	472	231	50	
	max	980	6,2	5,9	98	50	120	0,95					

Technical data including factory mounted discharge plenum.

* Sound pressure level with assumed external sound attenuation of 16 dB based on room and installation

** Width of a horizontal unit in standard execution

*** Cooling performances are based on 27°C/47% room temperature and 7/12°C water temperature;

heating performances are based on 20°C room temperature and 45/40°C water temperature for 2-pipe systems and 65/55°C water temperature for 4-pipe systems

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