



COMPACT VENTILATION AND AIR-CONDITIONING UNITS

for restaurants, sports halls, gyms, ancillary facilities at swimming pools, and much more.

Compact Line



ABOUT US

HANSA Klimasysteme GmbH has been based in Strücklingen, in the municipality of Saterland, since 1961; Saterland is known for its Sater Frisian language, the smallest linguistic enclave in Germany. Our products speak for themselves.

For decades, we have been synonymous with technically sophisticated, high-quality air-conditioning systems. As a family-owned and managed company since 1971, we stand for continuity, stability, and long-term reliability.

The company

Ever since the company was founded, we have earned a reputation throughout Germany and far beyond for manufacturing ventilation units for schools, sports halls, swimming pools and hospitals, as well as for industrial and process engineering applications. Building on this expertise, we offer a comprehensive portfolio of air-handling units for a wide range of applications.

Our units are engineered to deliver high quality, functionality, reliability and energy-efficient operation. The actual energy performance depends on the specific unit configuration and the correspond-

ing technical documentation. Throughout our product development, we have secured numerous intellectual property rights through the European Patent Office, reflecting the innovative nature of our technologies.

As a member of the German AHU Manufacturers Association (RLT-Herstellerverband e.V.), we design and manufacture our units in strict accordance with the AHU guidelines, ensuring the highest standards of quality, operational safety, and regulatory compliance for both our customers and the operators of our equipment.

The team

We invest in the continuous development of our employees and train the next generation of skilled professionals. The HANSA team comprises experienced specialists in the field of ventilation unit manufacturing, with expertise spanning refrigeration technology, control engineering, and automation.

Our units are designed and manufactured in accordance with the quality management requirements of DIN EN ISO 9001:2015.

Our sales team consists of experienced experts who are committed to finding the right solution for you.

Our philosophy

Our goal is to meet our customers' climate control requirements as effectively as possible while helping to protect the environment. To achieve this, we offer systems that can be tailored to our customers' specific operating conditions using flexible manufacturing processes and state-of-the-art components while minimizing energy consumption. As the energy requirements of both the overall system and its individual modules can be reduced without compromising performance, both investment and energy costs are reduced.

been independently assessed. Product-related emissions have been calculated using market-based secondary emission factors. We have purchased carbon credits to offset the unavoidable greenhouse gas emissions resulting from our operational and product-related activities. This simultaneously achieves positive social and environmental effects. In accordance with the EmpCo EU Directive, the results of the sustainability assessment are presented transparently as a sustainability overview on our publicly accessible ImpactBoard web portal.

The carbonfootprint of our company, our production processes and the product-related emissions – from raw material extraction to the factory gate – has

Committed to climate protection – not just through our products



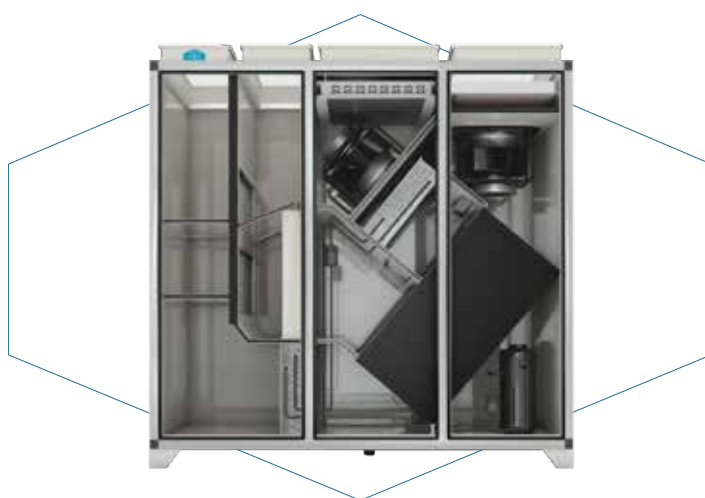
HANSA is a member of the AHU Manufacturers Association (Herstellerverband Raumlufttechnische Geräte e.V.).



COMFORT AIR-HANDLING UNIT

KL-P Comfort air-handling unit

Ventilation units for restaurants, sports halls, gyms, ancillary facilities at swimming pools, and much more.



Air conditioning with mechanical cooling for office buildings, hotels, restaurants, conference and club facilities, meeting rooms, and many other applications.

- Complies with the Ecodesign Directive when configured for the intended application
- Heat recovery efficiency of over 80%, Energy Efficiency Class A+
- Continuously variable EC motors
- Complete solution including control cabinet and control system
- Available with an integrated cooling system
- Compliant with VDI 6022
- Airflow rates of up to 3,400 m³/h

Type	Max. supply airflow rate [m ³ /h]	Dimensions L x W x H [mm]	Weight [kg]	Connected load [kW]
KL-P-15	1500	1860 × 670 × 2000	470	1.5
KL-P-15-iK	1500	1860 × 670 × 2000	550	3.5
KL-P-23	2300	1860 × 880 × 2000	620	2.1
KL-P-23-iK	2300	1860 × 880 × 2000	700	5.1
KL-P-34	3400	2070 × 1080 × 2100	745	3.6
KL-P-34-iK	3400	2070 × 1080 × 2100	830	8.2

Technical specifications for the KL-P without integrated cooling

Model	Unit	P-15	P-23	P-34
Airflow rates				
Supply air, max.	m³/h	1500	2300	3400
Extract air, max.	m³/h	1500	2300	3400
Energy recovery ¹⁾				
Capacity	kW	14.7	22.8	33.7
Efficiency	%	77	79	79
Winter outdoor air temperature after the double-plate heat exchanger	°C	17.6	17.9	17.9
Ext. pressure drop				
Outdoor air – Supply air	Pa	400	400	400
Extract air – Exhaust air	Pa	400	400	400
Sound power level at the				
supply air connection	dB(A)	79	82	84
Extract air connection	dB(A)	67	69	73
Outdoor air connection	dB(A)	60	61	64
Exhaust air connection	dB(A)	70	74	76
System power input				
Supply air fan	kW	0.51	0.82	1.37
Extract air fan	kW	0.48	0.79	1.28
Rated motor power				
Supply air fan, including commutation unit	kW	0.75	1.05	1.80
Extract air fan, including commutation unit	kW	0.75	1.05	1.80
Operating voltage	V	230	400 / 230	400 / 230
Hot-water heating coil²⁾				
Capacity	kW	10	16	24
Filter				
Extract air	Class	ISO ePM10 75% (M5)		
Outdoor air	Class	ISO ePM 50% (F7)		

1) $T_{\text{outdoor air}} = -12\text{ °C} / \text{RH} = 90\%$, $T_{\text{exhaust air}} = 22\text{ °C} / \text{RH} = 40\%$

2) 60 / 40 °C at $T_{\text{inlet}} = 13\text{ °C}$ and $T_{\text{outlet}} = 34\text{ °C}$



Erfüllt Verordnung (EU) 1253/2014 zur umweltgerechten Gestaltung von Lüftungsanlagen

The data and the applicable ErP compliance are verified individually, depending on the specific application and unit.

Technical specifications for the KL-P-iK with integrated cooling

Model	Unit	P-15-iK	P-23-iK	P-34-iK
Airflow rates				
Supply air	m³/h	1500	2300	3400
Extract air	m³/h	1500	2300	3400
Energy recovery (winter) ¹⁾				
Capacity	kW	14.7	22.8	33.7
Efficiency	%	77	79	79
Outdoor air temperature after the double-plate heat exchanger	°C	17.6	17.9	17.9
Energy recovery (summer) ²⁾				
Capacity	kW	2.4	3.6	5.4
Outdoor air temperature after the double-plate heat exchanger	°C	27.3	27.4	27.3
Mechanical cooling system				
Capacity	kW	7.0	9.8	14.5
Supply air temperature after the mechanical ²⁾ cooling system	°C	18	18	18
Ext. pressure drop				
Outdoor air – Supply air	Pa	400	400	400
Extract air – Exhaust air	Pa	400	400	400
Sound power level at the				
supply air connection	dB(A)	80	82	85
Extract air connection	dB(A)	68	69	73
Outdoor air connection	dB(A)	60	60	64
Exhaust air connection	dB(A)	71	73	75
System power input				
Supply air fan	kW	0.55	0.90	1.50
Extract air fan	kW	0.52	0.84	1.37

Model	Unit	P-15-iK	P-23-iK	P-34-iK
Rated motor power				
Supply air fan, including commutation unit	kW	0.75	1.05	1.80
Extract air fan, including commutation unit	kW	0.75	1.05	1.80
Compressor power consumption at operating point ³⁾	kW	2.18	3.0	4.56
Operating voltage	V	400 ; 230 / 230	400 ; 230	400 ; 230
Hot-water heating coil⁴⁾				
Capacity	kW	10	16	24
Filter				
Extract air	Class	ISO ePM10 75% (M5)		
Outdoor air	Class	ISO ePM1 50% (F7)		

1) $T_{\text{outdoor air}} = -12\text{ °C} / \text{RH} = 90\%$, $T_{\text{exhaust air}} = 22\text{ °C} / \text{RH} = 40\%$

2) $T_{\text{outdoor air}} = 32\text{ °C} / \text{RH} = 40\%$, $T_{\text{Extract air}} = 26\text{ °C} / \text{RH} = 50\%$

3) $t_o = 10\text{ °C} / t_c = 55\text{ °C}$

4) $60 / 40\text{ °C}$ at $T_{\text{inlet}} = 13\text{ °C}$ and $T_{\text{outlet}} = 34\text{ °C}$

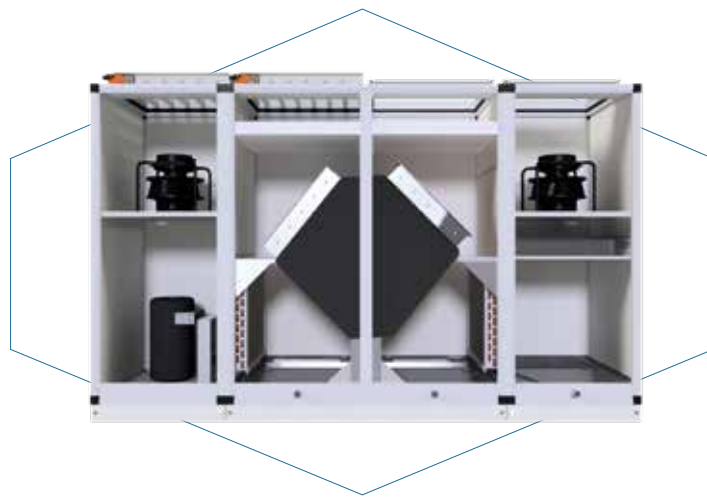


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Comfort air-handling unit KL-PGS

Ventilation units for sports halls, gyms, meeting rooms, ancillary facilities in swimming pools and much more.



Air conditioning with mechanical cooling for office buildings, hotels, restaurants, conference and club facilities, meeting rooms, and many other applications.

- Complies with the Ecodesign Directive when configured for the intended application
- Heat recovery efficiency of over 80%; Energy Efficiency Class A+
- Continuously variable EC motors
- Complete solution including control cabinet and control system
- Units available with an integrated cooling system or heat pump
- Compliant with VDI 6022
- Airflow rates up to 8,000 m³/h

Type	Max. supply airflow rate [m³/h]	Dimensions L x W x H [mm]	Weight [kg]	Connected load [kW]
KL-PGS-040	4000	3210 × 1080 × 1865	900	4.8
KL-PGS-040-iK	4000	3210 × 1080 × 1865	1063	8.2
KL-PGS-048	4800	3210 × 1280 × 1865	991	6
KL-PGS-048-iK	4800	3210 × 1280 × 1865	1179	10.2
KL-PGS-065	6500	4060 × 1280 × 2140	1254	9.9
KL-PGS-065-iK	6500	4060 × 1280 × 2140	1505	17
KL-PGS-080	8000	4060 × 1590 × 2140	1439	8.8
KL-PGS-080-iK	8000	4060 × 1590 × 2140	1755	17.3

Technical specifications KL-PGS without integrated cooling

		PGS-040	PGS-048	PGS-065	PGS-080
Airflow rates					
Supply air, max.	m³/h	4000	4800	6500	8000
Extract air, max.	m³/h	4000	4800	6500	8000
Energy recovery ¹⁾					
Capacity	kW	40	47	64	80
Efficiency	%	76.5	76.5	77.5	77.5
Winter outdoor air temperature after the double-plate heat exchanger	°C	17.4	17.4	17.6	17.6
Ext. pressure drop					
Outdoor air – Supply air	Pa	400	400	400	400
Extract air – Exhaust air	Pa	400	400	400	400
Sound power level at the					
supply air connection	dB(A)	84	84	85	85
Extract air connection	dB(A)	66	66	66	68
Outdoor air connection	dB(A)	65	65	65	67
Exhaust air connection	dB(A)	84	84	85	85
System power input					
Supply air fan	kW	1.3	1.54	2.15	2.57
Extract air fan	kW	1.3	1.49	2.08	2.51
Rated motor power					
Supply air fan, including commutation unit	kW	1.9	2.5	4.45	3.9
Extract air fan, including commutation unit	kW	1.9	2.5	4.45	3.9

		PGS-040	PGS-048	PGS-065	PGS-080
Operating voltage	V	400	400	400	400
<i>Hot-water heating coil²⁾</i>					
Capacity	kW	23	30	41	50
<i>Filter</i>					
Extract air	Class	ISO ePM1 50%			
Outdoor air	Class	ISO ePM1 50%			

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Technical specifications KL-PGS-iK with integrated cooling

PGS-040-iK PGS-048-iK PGS-065-iK PGS-080-iK

Airflow rates					
Supply air	m³/h	4000	4800	6500	8000
Extract air	m³/h	4000	4800	6500	8000
Energy recovery (winter) ¹⁾					
Capacity	kW	40	47	64	80
Efficiency	%	76.5	76.5	77.5	77.5
Outdoor air temperature after the double-plate heat exchanger	°C	17.4	17.4	17.6	17.6
Energy recovery (Summer) ²⁾					
Capacity	kW	6.16	7.41	10.16	12.54
Outdoor air temperature after the double-plate heat exchanger	°C	27.4	27.4	27.3	27.3
Mechanical refrigeration system					
Capacity	kW	13.2	16.2	30.2	34.7
Supply air temperature following the mechanical ²⁾ cooling system	°C	19	19	18	18
Ext. pressure drop					
Outdoor air – Supply air	Pa	400	400	400	
Extract air – Exhaust air	Pa	400	400	400	
Sound power level at the					
supply air connection	dB(A)	85	85	86	86
Extract air connection	dB(A)	67	67	67	69
Outdoor air connection	dB(A)	66	66	66	68
Exhaust air connection	dB(A)	85	85	86	86

PGS-040-iK

PGS-048-iK

PGS-065-iK

PGS-080-iK

<i>System power input</i>					
Supply air fan	kW	1.40	1.67	2.30	2.80
Extract air fan	kW	1.47	1.62	2.25	2.80
<i>Rated motor power</i>					
Supply air fan, including commutation unit	kW	1.90	2.50	4.45	3.90
Extract air fan, including commutation unit	kW	1.90	2.50	4.45	3.90
Power consumption of the compressor at the operating point ³⁾	kW	3.40	4.20	7.10	8.50
Operating voltage	V	400	400	400	400
<i>Hot-water heating coil ⁴⁾</i>					
Capacity	kW	23	30	41	50
<i>Filter</i>					
Extract air	Class	ISO ePM1 50%			
Outdoor air	Class	ISO ePM1 50%			

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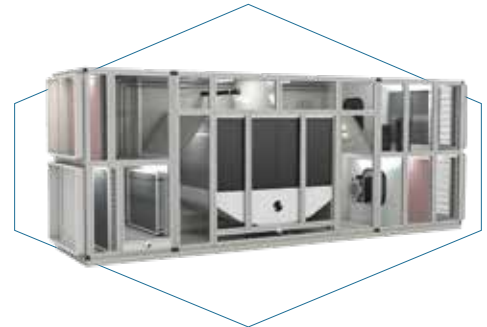
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OTHER PRODUCTS

Blue Line

Highly customisable ventilation and full air-handling units with central heat recovery, designed for energy-efficient operation. All standard heat recovery systems can be integrated, including plate heat exchangers, rotary heat exchangers, run-around coil systems and Accublock.



Slim Line

Highly efficient, compact units manufactured in large quantities for cooling spaces with high thermal loads. Compared with recirculation or split-system units, these units can deliver significant energy savings in specific applications. Actual savings depend on the individual operating conditions.



Free Line

Our Free Line units are fully customisable and configurable air-handling units designed for the free cooling of server rooms or, more generally, for the dissipation of process heat. They can be perfectly adapted to a range of applications.



ReCool Line

Recirculating air cooling units for removing excess heat from spaces with high thermal loads – whatever the operating conditions. Put your trust in HANSA, the climate specialist, and choose the recirculating air cooling unit that best meets your requirements.



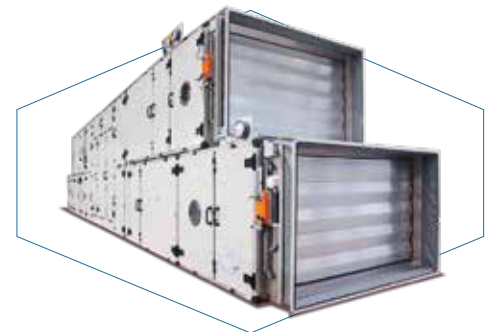
Pool Line

Swimming pool dehumidifiers are designed to provide comfort, protect the building, and operate efficiently. Their durable, energy-efficient design helps to reduce operating costs while meeting the specific requirements of each project.



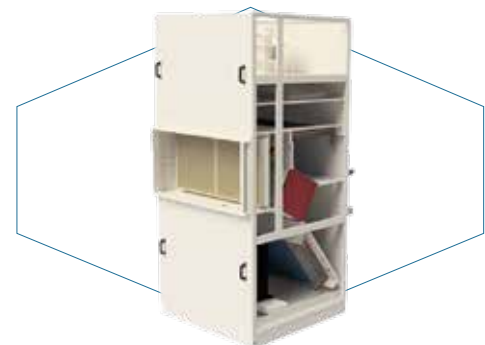
Blue Line Hy

Germ-free, clean air is an essential requirement in hygiene-sensitive environments. With our Blue Line Hy air-handling units, the air can be treated to meet specific requirements.



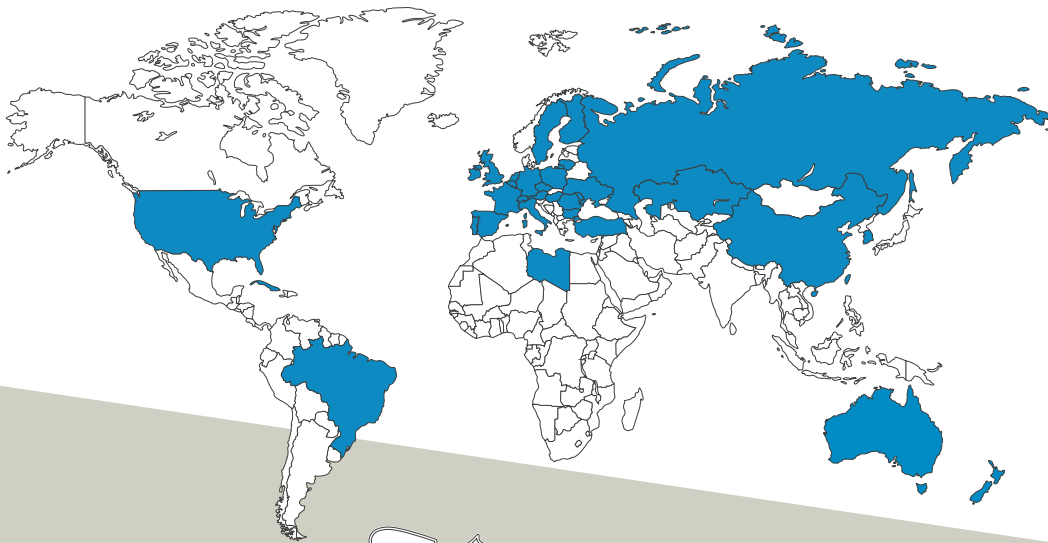
Specialised units

Our specialist product range includes the LF-HY (food hygiene) and Hygro Line (recirculating-air dehumidification) series. More detailed information about all our products is available on our website.





Our units around the world





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