

Reciprocating Compressors EUROCOMP Series

Flow rate from 112 to 1050 l/min – Pressure 10 and 15 bar



EUROCOMP Series

EUROCOMP – Tough compressors for tough jobs

KAESER's EUROCOMP series stationary reciprocating compressors have successfully served trade and industry for years. The choice of horizontal, vertical or free-standing air receivers allows these highly versatile compressors to be installed in any location.

Low compressed air temperature

With numerous cooling fins, additional cooling pins in the compressed air outlet and a large fan wheel, the high-efficiency cooling system in EUROCOMP reciprocating compressors keeps oil and compressed air temperatures to a minimum. This highly efficient cooling system significantly extends the life of the compressor and pneumatic tools. The special ring-shaped aluminium aftercooler also serves as an effective safety guard.

Maintenance-free transmission

Because the motor and compressor block are directly connected with one another there are zero drive power transmission losses. Low speed operation ensures greater efficiency and longer service life of all moving components.



Double vibration dampening

EUROCOMP series reciprocating compressors from KAESER are equipped as standard with double vibration dampening. This effectively neutralises the effects of back and forth movement of mass. As a result, sound levels are kept to a minimum and no vibration energy is transferred to the foundation.

Sound-proofing as required

Already low thanks to vibration dampening and low speed operation, sound levels of EUROCOMP reciprocating compressors can be further reduced by up to 10 dB(A) if needed through the use of sound enclosures. The effective sound enclosures are available ex-works or can be retrofitted at a later date.

Quality: Made in Germany

Advantages of KAESER EUROCOMP compressors include: All key compressor components, such as the compressor block and the electric motor, are made in Germany to the very highest standards of design and engineering. As a result, EUROCOMP compressor users benefit from greater system performance and considerably extended compressor service life. EUROCOMP compressors are designed to provide many years of reliable service and to ensure a dependable supply of quality compressed air.

**Great quality for
a long partnership**



Image: EPC 630-250



EUROCOMP Series

Quality in every component



KAESER-quality compressor block

Made from premium grade materials and subjected to rigorous inspection, each KAESER compressor block is meticulously machined and assembled to ensure outstanding delivery performance, efficiency and durability.



Highly effective cooling

With numerous cooling fins, additional cooling pins in the compressed air outlet and a large fan wheel, the high-efficiency cooling system in EUROCOMP reciprocating compressors keeps oil and compressed air temperatures to a minimum. This enhances availability and service life.



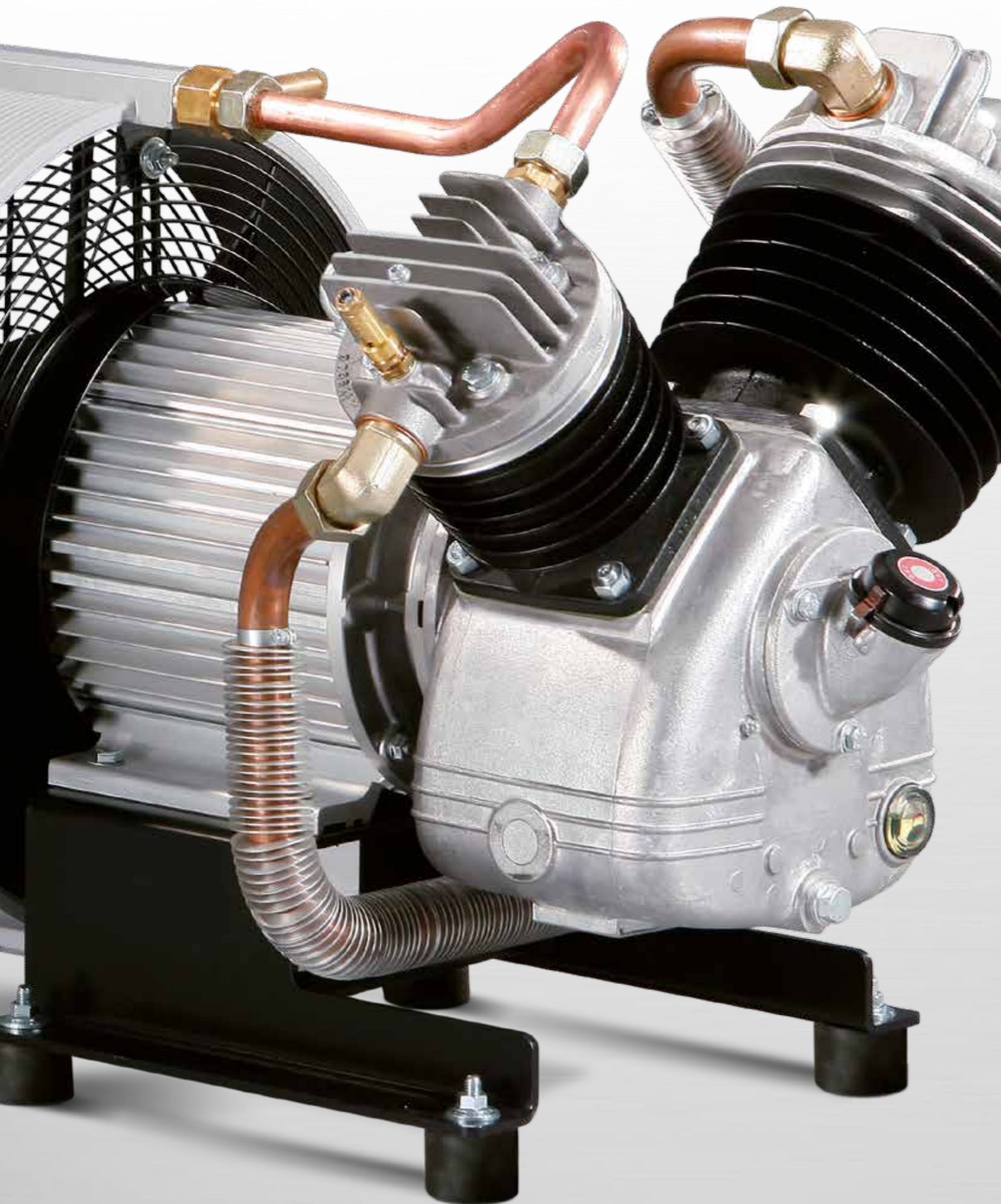
Non-corroding valves

The valves in EUROCOMP compressors feature stainless steel valve reeds and lift limiters which prevent carbon build up and improve heat dissipation. Valve closure performance and service life are also significantly enhanced.



Made in Germany

All key compressor components, such as the compressor block and the electric motor, are made in Germany to the very highest standards of design and engineering. KAESER EUROCOMP compressors are designed to provide many years of reliable service and to ensure a dependable supply of quality compressed air.



EUROCOMP Series

The right model for every need



Horizontal air receiver version

The horizontal air receiver versions of EUROCOMP reciprocating compressors are popular for workshop applications.



Vertical air receiver version

The space-saving version with vertical air receiver. All air receivers (up to 350 l), whether vertical or horizontal, feature a corrosion-resistant internal coating.



"Base-mounted" version

Perfect as replacement equipment, or for connection to existing systems with an available compressed air receiver, base-mounted units are also available for stand-alone use.



Optional sound enclosure

The highly-effective sound enclosures for EUROCOMP compressors can be installed optionally ex-works; they can also be retro-fitted quickly and easily.

Equipment

Compressor

- Air-cooled compressor block with oil ring lubrication (splash oil lubrication up to 2.4 kW)
- Air inlet filter with silencer
- Aluminium cylinder heads and additional cooling pipes ensure excellent heat dissipation
- Multi-chamber, aluminium ring cooler also serves as a fan guard (3kW model upwards)
- Lightweight, low noise reed valves
- Oil filler, oil vent, oil drain plug and oil level sight glass
- Motor directly coupled to the compressor block
- Compressor, motor and air receiver fitted with anti-vibration mounts, flexible hose connection between compressor and air receiver
- Anti-vibration mounts between air receiver and floor

Motor

- Four-pole, 1500 rpm, three-phase 400 V/50 Hz
- IP 54 enclosure protection, B 15 construction
- Integrated axial fan for compressor and motor cooling

Optional extras (additional cost)

- Sound enclosure
- Operating hours counter
- Alarm contact
- Automatic or electronic condensate drain installed on compressed air receiver
- Bolt-down machine mounts
- Foodstuff-compatible or synthetic oil
- 3 m or 5 m connection cable, with/without CE plug
- Oil level monitor with automatic shut-down if oil level is too low



KAESER-DRAIN condensate drain

The cost-effective KAESER-DRAIN automatic condensate drain for reciprocating compressors utilises the up till now unused compressed air that is released upon system shut down to ensure dependable condensate drainage. A simple functionality check can be performed via additional manual activation with variants for EPC compressors.

Application



EUROCOMP reciprocating compressor in a vehicle workshop

Accessories



Star-delta starter

Control cabinet with automatic star-delta protection combination. Dust- and water-proof to IP 54. With KAESER CONTROL operating hours counter and monitoring module. Motor power of 5.5 kW or higher required.



Electronic condensate drain

Level-sensing controlled ECO-DRAIN condensate drain. Complete set for installation on air receiver. Including all assembly components and fittings.



Compressed air dryer

Additional compressed air drying is essential to avoid production downtime and interruptions, as well as to reduce costly maintenance and repair work. KAESER compressed air dryers are the perfect addition to EUROCOMP reciprocating compressors.



Air receiver

Vertical compressed air receivers are used for base-mounted EUROCOMP systems. Hot-dip galvanizing ensures optimal corrosion resistance. The air receivers are designed in accordance with AD2000 to allow long inspection intervals.

Technical Specifications

EUROCOMP – Packages with horizontal compressed air receiver

	Single stage, 10 bar							Two stage, 15 bar						
	EPC 340-100 ¹⁾	EPC 440-100 ¹⁾	EPC 630-100 ¹⁾	EPC 630-250	EPC 840-100 ¹⁾	EPC 840-250	EPC 1100-500	EPC 1500-500	EPC 230-2-100	EPC 420-2-250	EPC 550-2-250	EPC 750-2-500	EPC 1000-2-500	
Piston displacement	340	440	660		840		1100	1500	230	420	550	750	1000	
Effective flow rate ¹⁾ at 6 bar	l/min	195	280	410		590		750	1000	–	–	–	–	
Effective flow rate ¹⁾ at 8 bar	l/min	170	260	375		530		690	900	192	344	460	620	836
Effective flow rate ¹⁾ at 12 bar	l/min	–	–	–		–		–	–	188	336	450	610	820
Air receiver volume		90		90	250	90	250	500	500	90	250	250	500	500
Air receiver internally coated		●	●	●	●	●	●	–	–	●	●	●	–	–
Motor power ²⁾ 400 V	kW	1.7	2.4	3		4		5.5	7.5	1.7	3	4	5.5	7.5
Motor power ²⁾ 230 V	kW	–	–	–		–		–	–	–	–	–	–	–
Number of cylinders		1	2	2		2		2	2	2	2	2	2	2
Sound pressure level ³⁾	dB(A)	73	75	76		78		80	80	69	76	78	80	80
Width	mm	1120		1150	1540	1150	1590	2050		1140	1540	1590	2040	2040
Depth	mm	350	500	570		590	600	700	790	440	570	600	800	820
Height	mm	910	870	950	1130	960	1140	1300	1330	870	1190	1220	1330	1340
Weight	kg	73	89	95	166	100	165	235	245	90	175	180	280	285
Version with sound enclosure														
Sound pressure level ³⁾	dB(A)	64	67	67		68		70	72	61	67	68	70	72
Width	mm	1150		1150	1540	1150	1590	2050		1170	1540	1590	2040	
Depth	mm	470		610		610		730		470	610		730	
Height	mm	1000	1010	1080	1250	1080	1250	1410	1400	1000	1250	1250	1410	
Weight	kg	123	125	155	230	160	230	345	352	130	245	247	444	447

EUROCOMP – Packages with vertical compressed air receiver

	Single stage, 10 bar			Two stage, 15 bar						
	EPC 440-250 St	EPC 630-250 St	EPC 840-250 St	EPC 230-2-250 St	EPC 420-2-250 St	EPC 550-2-250 St	EPC 550-2-350 St	EPC 750-2-500 St	EPC 1000-2-500 St	
Piston displacement	440	660	840	230	420	550		750	1000	
Effective flow rate ¹⁾ at 6 bar	l/min	280	410	590	–	–	–	–	–	
Effective flow rate ¹⁾ at 8 bar	l/min	260	375	530	192	344	460		620	836
Effective flow rate ¹⁾ at 12 bar	l/min	–	–	–	188	336	450		610	820
Air receiver volume		250	250	250	250	250	250	350	500	500
Air receiver internally coated		●	●	●	●	●	●	–	–	–
Motor power ²⁾ 400 V	kW	2.4	3	4	1.7	3	4		5.5	7.5
Motor power ²⁾ 230 V	kW	–	–	–	–	–	–		–	–
Number of cylinders		2	2	2	2	2	2		2	2
Sound pressure level ³⁾	dB(A)	76	76	78	76		78		80	80
Width	mm	640	640		640	640	670	730	910	
Depth	mm	730	710		730	710	710	740	940	
Height	mm	1720	1810	1820	1720	1890	1920	1990	2060	2080
Weight	kg	125	150	156	150	175	177	190	325	
Version with sound enclosure										
Sound pressure level ³⁾	dB(A)	67	67	68	66	67	68	68	70	72
Width	mm	810	920		810	920	920	1090		
Depth	mm	640	640		640	640	730	920		
Height	mm	1900	1970		1900	1970	2040	2140		
Weight	kg	160	230	235	200	250	258	313	395	400

EUROCOMP – Packages (without compressed air receiver)

	Single stage, 10 bar						Two stage, 15 bar						
	EPC 340-G	EPC 440-G	EPC 630-G	EPC 840-G	EPC 1100-G	EPC 1500-G	EPC 150-2-G	EPC 230-2-G	EPC 420-2-G	EPC 550-2-G	EPC 750-2-G	EPC 1000-2-G	
Piston displacement	350	440	660	840	1100	1500	150	230	420	550	750	1000	
Effective flow rate ¹⁾ at 6 bar	l/min	195	280	410	590	750	1000	–	–	–	–	–	
Effective flow rate ¹⁾ at 8 bar	l/min	170	260	375	530	690	900	116	192	344	460	620	836
Effective flow rate ¹⁾ at 12 bar	l/min	–	–	–	–	–	–	112	188	336	450	610	820
Motor power ²⁾ 400 V	kW	1.7	2.4	3	4	5.5	7.5	1.1	1.7	3	4	5.5	7.5
Number of cylinders		1	2	2	2	2	2	2	2	2	2	2	2
Sound pressure level ³⁾	dB(A)	64	64	75	78	79	80	69	69	75	77	79	80
Width	mm	520	520	640	640	800	810	510	520	640	640	800	800
Depth	mm	330	500	570	590	690	800	430	440	570	600	670	720
Height	mm	510	440	540	550	610	650	440	440	580	610	630	650
Weight	kg	40	50	70	70	100	130	40	45	70	95	125	135
Control and connecting components incl. hose		●	●	●	●	●	●	●	●	●	●	●	●
Version with sound enclosure													
Sound pressure level ³⁾	dB(A)	54	54	67	72	70	74	59	59	67	68	70	72
Width	mm	810		920		1090		810		920		1090	
Depth	mm	470		610		730		470		610		730	
Height	mm	640		730		800		640		730		800	
Weight	kg	95	100	130		240	260	95	100	160	170	265	270

¹⁾ Effective flow rate measured as per ISO 1217

²⁾ Electrical connection: 400 V, 3 Ph, 50 Hz; 230 V, 1 Ph, 50 Hz

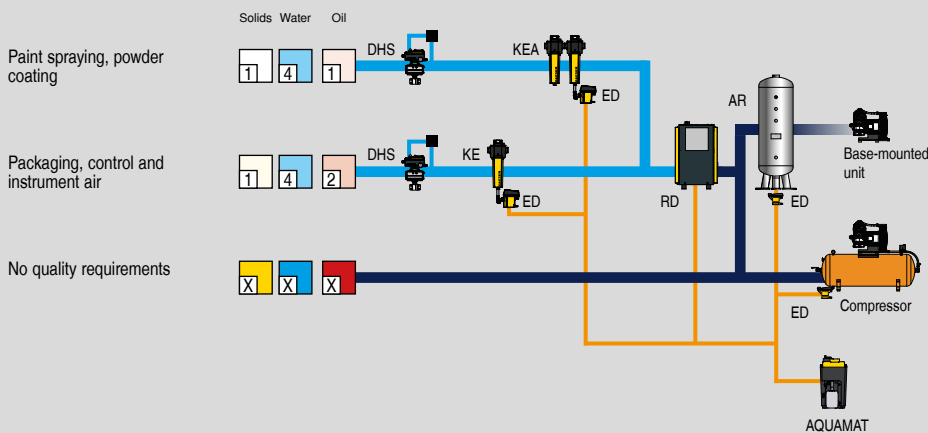
³⁾ Sound pressure level as per ISO 2151 and basic norm ISO 9614-2, operation at maximum working pressure; tolerance: ± 3 dB(A)

¹⁾ With ZUA type-test (or equivalent) – TÜV acceptance (or equivalent) not required

Choose the required grade of treatment according to your field of application:

Application examples: Selection of treatment classes to ISO 8573-1 (2010)

Air treatment with refrigeration dryer



Explanation	
AQUAMAT	Condensate treatment system
DHS	Air-main charging system
AR	Air receiver
ED	ECO-DRAIN (condensate drain)
KE	Coalescence filter, Extra
KEA	Carbon combination
RD	Refrigeration dryer

Compressed air quality classes to ISO 8573-1(2010):

Solid particles/dust			
Class	Max. particle count per m ³ * of a particle size d in [µm]		
	0.1 ≤ d ≤ 0.5	0.5 ≤ d ≤ 1.0	1.0 ≤ d ≤ 5.0
0	Please consult KAESER regarding specific requirements		
1	≤ 20,000	≤ 400	≤ 10
2	≤ 400,000	≤ 6,000	≤ 100
3	Not defined	≤ 90,000	≤ 1,000
4	Not defined	Not defined	≤ 10,000
5	Not defined	Not defined	≤ 100,000
Class	Particle concentration C _p in mg/m ³ *		
6	0 < C _p ≤ 5		
7	5 < C _p ≤ 10		
X	C _p > 10		

Water	
Class	Pressure dew point, in °C
0	Please consult KAESER regarding specific requirements
1	≤ - 70 °C
2	≤ - 40 °C
3	≤ - 20 °C
4	≤ + 3 °C
5	≤ + 7 °C
6	≤ + 10 °C
Class	Concentration of liquid water C _w in g/m ³ *
7	C _w ≤ 0.5
8	0.5 < C _w ≤ 5
9	5 < C _w ≤ 10
X	C _w > 10

Oil	
Class	Total oil concentration (fluid, aerosol + gaseous) [mg/m ³]*
0	Please consult KAESER regarding specific requirements
1	≤ 0.01
2	≤ 0.1
3	≤ 1.0
4	≤ 5.0
X	> 5.0

*) At reference conditions 20 °C, 1 bar(a), 0% humidity