



Process technology



BEKOBLIZZ[®] LC: environmentally friendly cooling at +5°C

BEKOBLIZZ[®] LC is applied where compressed air is used for cooling or climatisation. The compressed-air cooler cools cost-effectively with +5°C cold compressed air – without the use of CO₂ or N₂. Accumulating condensate is drained without pressure loss with the integrated BEKOMAT[®]. The flow-optimised heat exchanger design

additionally ensures the lowest pressure losses. Cold compressed air, generated with BEKOBLIZZ[®] LC, accelerates cooling processes and thus increases the cost efficiency. Moreover, the cycle times are reduced through optimum cooling, and increases in production are enabled.

+ The BEKOBLIZZ[®] LC advantages at a glance

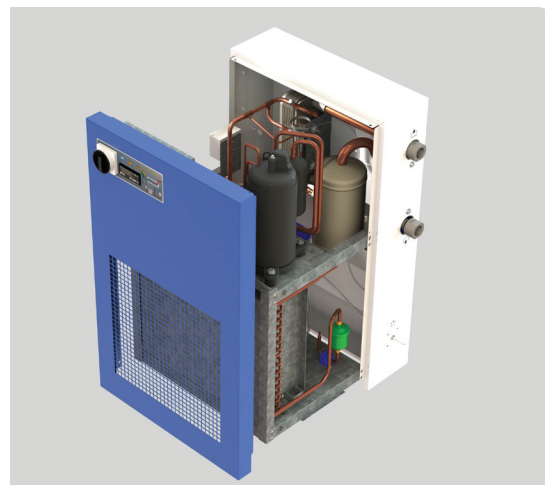
Cold compressed air with +5°C

Optimum productivity through reduced cycle times

Short payback period, often less than 12 months

Increases the process safety

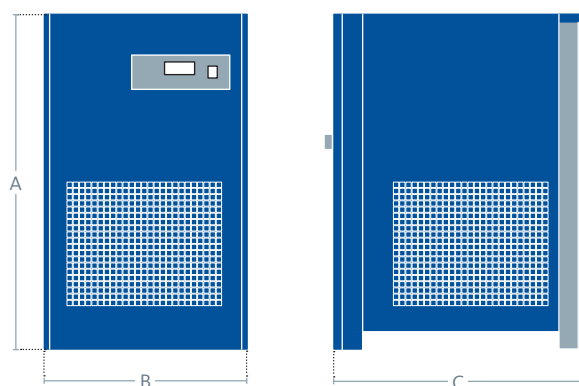
Easy installation, safe operation





BEKOBLIZZ® LC

Reference conditions in accordance with DIN/ISO 7183	
Volume flow in m ³ /h related to 20°C	1 bar [a]
Operating pressure	7 bar
Outlet temperature compressed air	< +5 °C
Pressure dew point	< +5 °C
Operating conditions	
Min./max. inlet pressure	4/15 bar[g]
Max. compressed-air inlet temperature	+55°C
Compressed-air inlet temperature	+35°C
Min./max. cooling media temperature	+1°C / +50°C
Electrical connection (ph/V/Hz, other voltages on request)	
LC12-LC355	1/230/50
LC480-LC720	3/400/50



BEKOBLIZZ®	LC 12	LC 35	LC 55	LC 90	LC 115	LC 150
Air volume flow (m ³ /h)	12	36	60	90	116	150
Power input (kW)	0.16	0.23	0.46	0.69	0.75	0.70
Pressure loss (Δp bar[g])	0.09	0.22	0.18	0.21	0.16	0.19
Air connection (ø)	G 3/8" BSP-F	G 3/8" BSP-F	G 1/2" BSP-F	G 3/4" BSP-F	G 3/4" BSP-F	G 1" BSP-F

Dimensions						
A (mm)	475	475	830	830	830	870
B (mm)	370	370	510	510	510	560
C (mm)	515	515	625	625	625	725
Weight (kg)	28	30	37	59	61	81

BEKOBLIZZ®	LC 240	LC 355	LC 480	LC 600	LC 720
Air volume flow (m ³ /h)	240	360	480	600	720
Power input (kW)	1.10	1.73	2.85	3.10	3.50
Pressure loss (Δp bar[g])	0.20	0.18	0.22	0.18	0.21
Air connection (ø)	G 1" BSP-F	G 1 1/2" BSP-F	G 2" BSP-F	G 2" BSP-F	G 2" BSP-F

Dimensions					
A (mm)	8700	1240	1700	1700	1700
B (mm)	560	580	610	610	610
C (mm)	725	655	1155	1155	1155
Weight (kg)	122	130	218	235	245

The performance values are based on an ambient temperature of 25°C, a compressed-air inlet pressure of 7 bar[g], and a compressed-air inlet temperature of 35°C (saturated). All of the models are equipped with BEKOMAT® condensate drains.

Conversion factors

Please adjust the performance indications by multiplying by the respective correction factor.

Operating pressure (bar[g])	4	5	6	7	8	10	12	14	15	Cooling media temperature (°C)	25	30	35	40	45	50
Correction factor	0.77	0.86	0.93	1.00	1.05	1.14	1.21	1.27	1.30	Correction factor	1.00	0.96	0.90	0.82	0.72	0.60
Inlet temperature (°C)	< 25	30	35	40	45	50	55	Pressure dew point (°C)	4	5	7	10	15	20		
Correction factor	1.39	1.20	1.00	0.80	0.63	0.51	0.46	Correction factor	0.88	1.00	1.04	1.15	1.42	1.82		



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