

Aircooled condensers

LCZ

General

The range of aircooled condensers consists of 10 models with 1 to 4 fans. The capacities are between 8490 and 71200 W at 15 K td.

Execution

The coils are manufactured from 1/2" OD copper tubes, expanded into aluminium fins.
 Tube centres: 38 x 38 mm.
 Fin spacing: 2,25 mm.
 The casework is manufactured from aluminium and finished with aluminium paint.
 Test pressure for all condensers is 25 bar. The condensers are dehydrated and supplied with a dry nitrogen charge.
 At an extra price the condensers can be delivered with multicircuits.

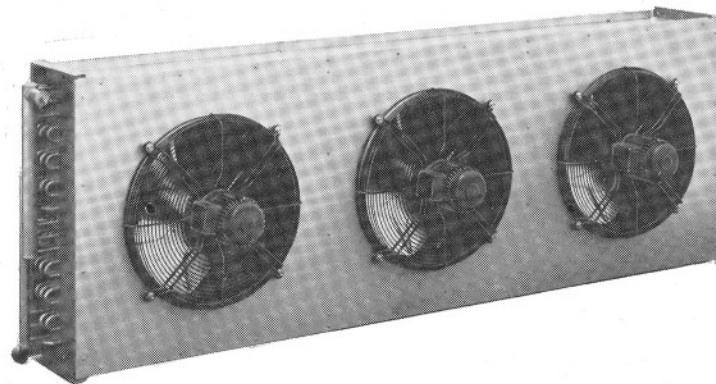
Corrosion resistant design

The standard condenser has a good corrosion resistance. For application in corrosive areas the finned coil can be delivered, at an extra price, in the following options:

- seawater resistant fins (57S/5052)
- prepainted aluminium fins (capacities are 7% lower).

Mounting

The LCZ condensers are suitable for horizontal as well as vertical airflow. In case of vertical airflow mounting hot-dipped galvanized steel support legs are available at an extra price. (Type MP-4 including bolts and nuts)



LCZ 14
AIRFLOW HORIZONTAL

Fans/Blades/Guards

The LCZ has balanced fans, with 4 aluminium fanblades \varnothing 508 mm. These fans are fitted complete with protection guards and anti vibration mountings. The guards are galvanized and subsequently PVC coated. Mounting bolts and nuts are stainless steel.

Motors

Motors are of the enclosed design IP-55. Terminal boxes are provided with cable inlet Pg 13.5.

Standard:

n = 910 rpm,
180 W, 220/380/50/3.

At an extra price the condenser can be delivered with the following motors:

- 1: n = 690 rpm,
120 W, 220/380/50/3.
- 2: n = 470 rpm,
25 W, 220/380/50/3.
- 3: n = variable,
180 W max, 220/50/1.

Head pressure control

The LCZ condensers have the facility for head pressure control for switching off one or more fans. Head pressure control can also be used for variable speed motors. The casing has internal baffles which isolate each fan.

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Capacities

Soundlevels

Type	Capacity			Fans		soundlevel			Max. number of circuits available
	Watt			number	airvolume	dB(a)			
	n= 910	n= 690	n= 470			n= 910	n= 690	n= 470	
LCZ					m ³ /h				
2	13100	11200	8490	1	5300				2
4	16600	14000	10100	1	5000	46	42	33	3
6	18400	15300	11000	1	4700				4
8	26300	22400	17000	2	10600				4
10	33200	27900	20200	2	10000	49	45	36	6
12	36800	30600	22000	2	9400				8
14	49900	41900	30400	3	15000	51	47	38	6
16	55100	45900	33000	3	14100				8
18	64200	54200	39300	4	20000	52	48	39	12
20	71200	59900	43000	4	18800				16

Capacity

The capacities are valid for R22 and R502 at 15 K td.

At other temperature differences between 10 and 20 K td, capacities are proportionate to this temperature difference.

For R12 the capacities are 5% lower.

* td = difference between condensing and ambient temperature.

Soundlevel

The soundlevel, measured with an A-filter, is valid at a distance of 10 m under free field conditions. Conditions at site may cause differences.

Technical data

Type	Connections **		Dimensions mm		Weight	Internal volume
	solder mm		A	B		
	inlet	outlet			kg	dm ³
LCZ						
2	22	22			45	5
4	22	22	900	808	54	7
6	22	22			63	9
8	22	22			74	9
10	28	22	1660	1568	97	13
12	28	28			120	17
14	35	28	2450	2338	138	20
16	35	28			170	27
18	35	35	3100	2928	180	25
20	35	35			220	33

Circuiting

At an extra price the coilblock is available with one or more circuits. The capacity of these circuits can be found by dividing the total capacity by the number of circuits.

** All LCZ types have connections at one side, except the LCZ-18 and 20. These two types have the connections each at one side.

Adjustment values for overload relays

	Fanspeed	Tension	Current
	rpm		Ampère
Adjustment values for overload relays (air temperature -10 °C)	910	380/50/3	0,84
	690		0,54
	470		0,285
	1000 variable	220/50/1	2,1*

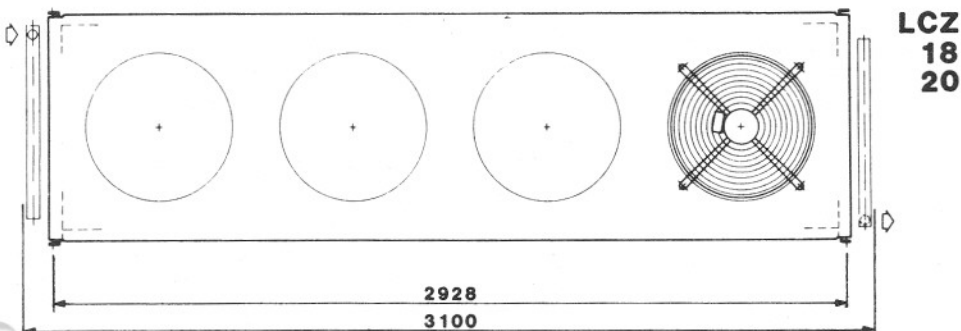
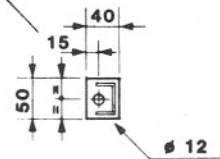
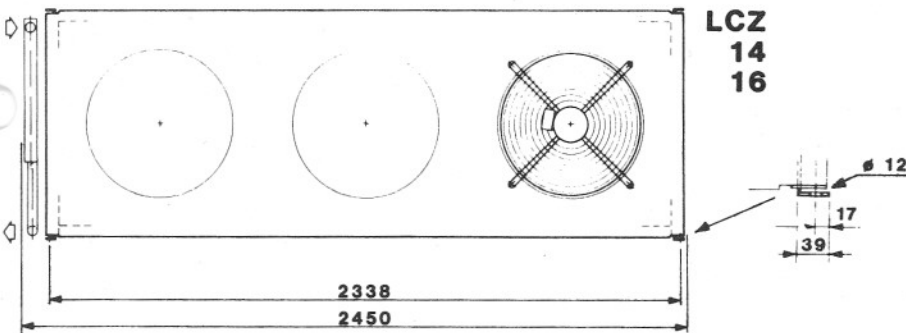
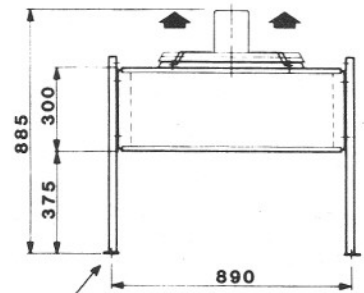
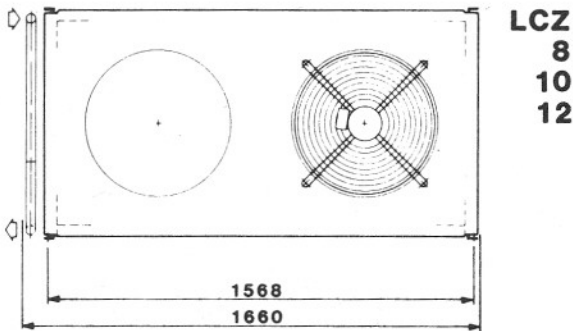
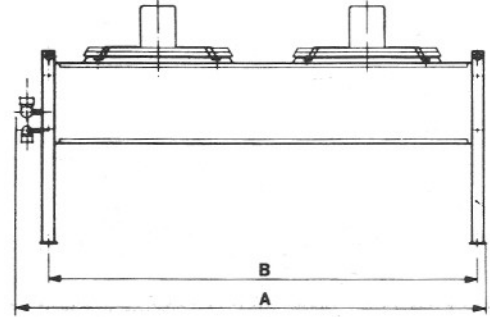
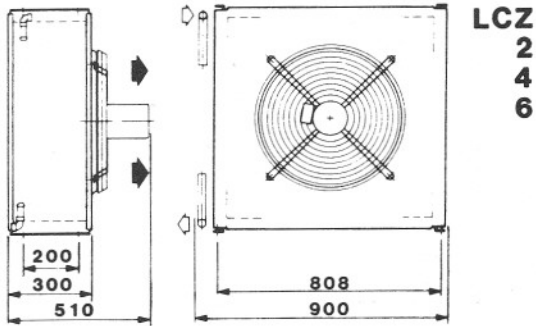
* This value is valid for full load operation. Depending on the control system the measured current can be higher at variable speed operation.

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Horizontal airflow

Vertical airflow



Technical modifications reserved!