

SOLAR Air cooled dry coolers (G) and Condensers (L)



Air-cooled SOLAR dry coolers and condensers are designed for commercial, industrial, and air conditioning applications. With a wide range of sound level alternatives these units are particularly suited to demanding, noise sensitive environments.

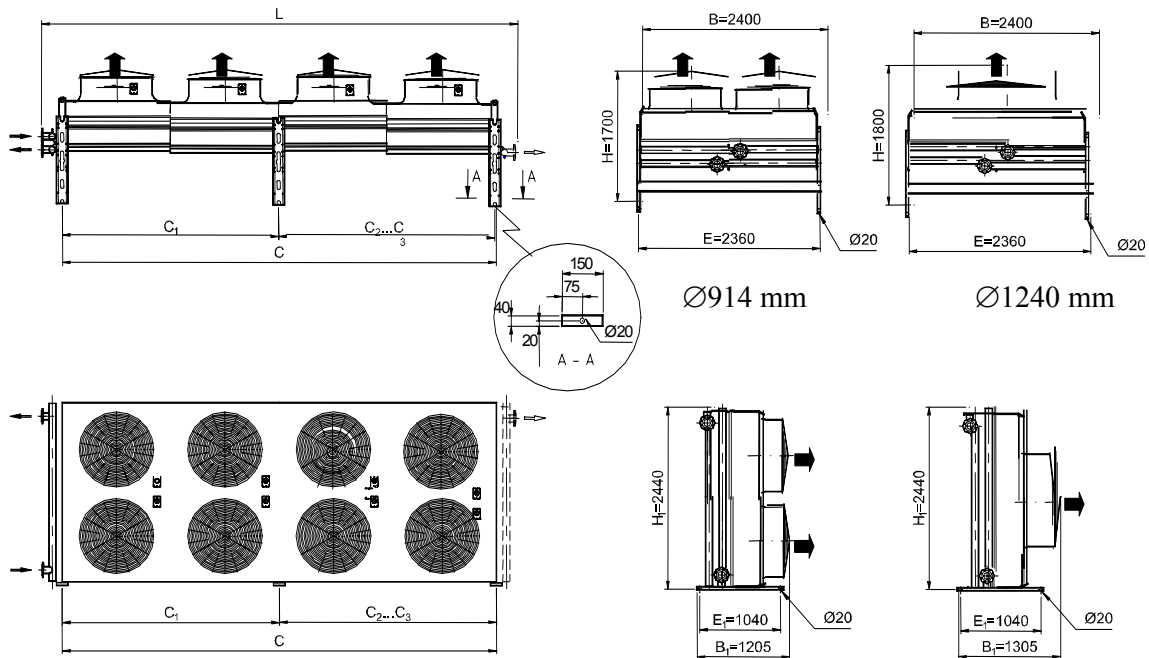
Features

- 38 sizes, with performance data according to *Eurovent Rating Standard 7/C/002 and 7/C/003*:
 - Nominal capacities for dry coolers 37...1651 kW (water *EN 1048*)
 - Nominal capacities for condensers 40...1833 kW (R404A/ Δt_1 15 K, *EN 327*)
- Pressure vessel construction to PED 97/23/EC.
- Two fan sizes and five fan speeds to closely match required sound level
- Standard high efficiency IEC motors.
- Two mounting positions: H=horizontal coil, vertical air flow and V=vertical coil, horizontal air flow
- New improved floating coil construction to reduce the risk of tube failure due to thermal expansion. (*Pat. Pending*).
- Two complete fan control options available; stepless fan speed control with frequency converter (SVC) or stepped fan staging control (SC). Fan sections are individually partitioned so each fan can be controlled separately.
- An optional water spray system can provide a considerable increase in capacity to cope with exceptional, short-term peak loads.
- Adjustable unit height
- Plain profile fins make the coil less prone to fouling and easier to clean.
- All units built in a facility approved according to ISO9001:2000 quality system
- Easy product selection with the Polar Power selection program

Technical data

- The heat transfer section is made of copper tubes and aluminium fins. Standard fin spacing is 2.3 mm. Other fin materials and spacings are available as option.
- Casing material is hot dip galvanised steel.
- The heat transfer section can be multi-circuited or equipped with a sub cooling circuit. Dry coolers are provided with venting and draining valves. **Note:** standard coil cannot be drained completely.
- Take care to ensure that the heat transfer fluid freezing point is appropriate to the local conditions. Also, make sure that the fluid is suitable for the coil construction materials. Always follow the recommendations and instructions of the heat transfer fluid/refrigerant manufacturer.
- A detailed technical manual including lifting, installation, service and maintenance instructions is shipped with each unit.

Dimensions and weights, size 221...274



B and B₁ = transport dimension
C, C₁, C₃, E and E₁ = mounting dimension

Size	Max. length L ¹⁾ [mm]	Mounting dimensions				Fixing points	Net weight [kg]	Internal volume SCAL ²⁾ [l]	Surface area [m ²]	Water spray system, option (D)	
		C [mm]	C ₁ [mm]	C ₂ [mm]	C ₃ [mm]					Water flow, [l/min,3bar]	Tube connection Ø[mm]
SCAL/SCAG-221...274, fans Ø 914 mm (-09) and Ø1240 mm (-12)											
221	4200	3600	3600	-	-	4	920	100	616	2.0	2x15
222	4200	3600	3600	-	-	4	990	140	822	2.0	2x15
223	4800	4200	4200	-	-	4	1 110	150	960	2.0	2x15
231	6000	5400	5400	-	-	4	1 370	150	924	3.1	2x15
232	6000	5400	5400	-	-	4	1 490	200	1230	3.1	2x15
233	6900	6300	6300	-	-	4	1 670	230	1 440	3.1	2x15
241	7800	7200	3600	3600	-	6	1 830	200	1230	4.1	2x15
242	7800	7200	3600	3600	-	6	1 980	260	1640	4.1	2x15
243	9000	8400	4200	4200	-	6	2 220	300	1 920	4.1	2x15
251	9600	9000	3600	5400	-	6	2 280	240	1 540	5.1	2x15
252	9600	9000	3600	5400	-	6	2 470	320	2 060	5.1	2x15
253	11100	10500	4200	6300	-	6	2 770	370	2 400	5.1	2x15
261	11400	10800	3600	3600	3600	8	2 730	290	1 850	6.1	2x15
262	11400	10800	3600	3600	3600	8	2 970	380	2 470	6.1	2x15
263	13200	12600	4200	4200	4200	8	3 320	450	2 880	6.1	2x15
264	11400	10800	3600	3600	3600	8	3 200	480	3080	6.1	2x15
265	11400	10800	3600	3600	3600	8	3 430	570	3700	6.1	2x15
266	13200	12600	4200	4200	4200	8	3 590	550	3 600	6.1	2x15
267	13200	12600	4200	4200	4200	8	3 860	660	4320	6.1	2x15
271	13200	12600	3600	5400	3600	8	3 190	340	2 160	7.1	2x15
272	13200	12600	3600	5400	3600	8	3 460	450	2 880	7.1	2x15
273	13200	12600	3600	5400	3600	8	3 730	550	3 600	7.1	2x15
274	13200	12600	3600	5400	3600	8	4 000	660	4320	7.1	2x15

¹⁾ Connections at both ends

²⁾ Internal volume is given at capacity based on 560 rpm fan. More accurate dimensioning can be made by using the selection program.



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