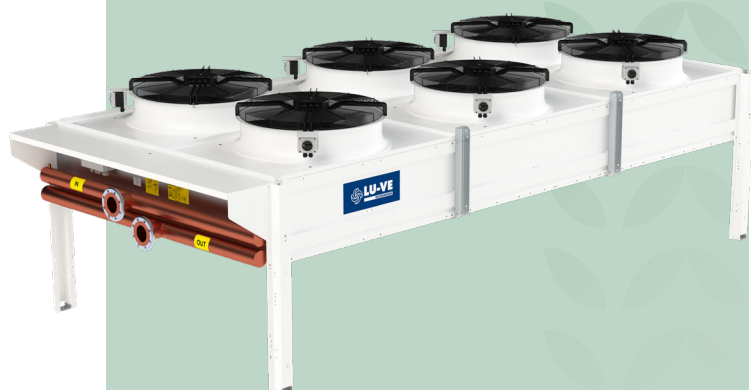


Flat Giants



Flat Giants
liquid coolers

Benefits

- High corrosion resistance casing
- Excellent sound characteristics, suitable for residential applications
- Energy efficient
- Easy installation and maintenance
- Two-year product guarantee
- Easy access to on-line product information

General information and application

Flat Giants is a wide range of industrial liquid coolers. When used in air conditioning and refrigeration installations, liquid coolers cool down condenser water. In the processing industry, liquid coolers are suitable for closed circuit cooling of various process liquids. With a wide range of sound pressure level alternatives, these units are particularly suited to noise demanding environments.

Refrigerants



Capacity range ($\Delta T=15^\circ\text{K}$, Glycol 34%)
Liquid flow

30 up to 1,400 kW
up to 270 m³/h

Finned coil

Copper tubing circuit design optimized according to liquid flow. High efficient fins-tube pattern boost the heat transfer performance. Fitted with aluminium turbo-fins. Different fin materials and spacing are available. The unique coil construction provides protection against vibration and thermal expansion, thanks to the patented SafeTube System.

Casing

Casing and framework are made of high quality galvanized steel, powdered coated RAL 9003 (white) to tailor the product for industrial environments. Modular design, available either in single or dual fan row.

Fan motors

High efficiency, low power consumption AC/EC motors are suitable for multiple voltage and frequency power supply, protection class IP 54 according to DIN 40050. Integrated thermo contacts provide reliable protection against thermal overload. Three fan diameters (800, 910 and 950 mm) optimized for different noise levels.

Design pressure

Max operating pressure 10 bar.

Packing

All units are shipped in a crate in vertical position as standard. Horizontal transport position on request.

Selection

Selection and pricing is to be performed with our air heat exchanger selection software Refriger. Selection output includes all relevant technical data and dimensional drawings.

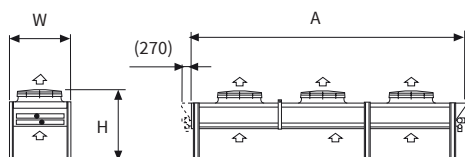


Flat Giants

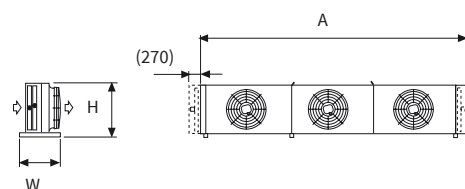
Liquid coolers

Dimensions

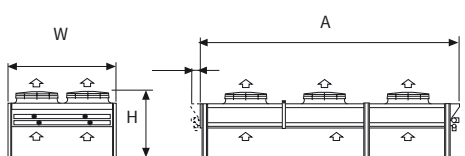
Horizontal installation - single fan row



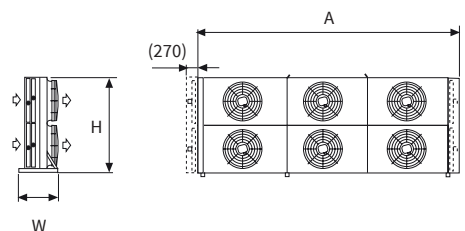
Vertical installation - single fan row



Horizontal installation - dual fan row



Vertical installation - dual fan row



Options

- Aluplus fins (AP): Al-Mg alloy coated fins with a special paint treatment to give strong protection and resistance to corrosion
- Cu fins
- Vibration dampers (VD)
- Whisperer (WH)
- Mounting feet for horizontal installation
- Spray water kit (KW)
- Electrical accessories:
 - Isolator switch (IS)
 - Basic switchboard, with fuse protection (ESB)
 - Switchboard with automatic switch for each fan (ECCB)
 - Switchboard with master controller regulation (ECCB+MC)

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LU-VE Exchangers is a trademark registered and owned by LU-VE Group.
LU-VE Exchangers reserves the right to change specifications without prior notification.

Model	mm	single fan row						dual fan row							
		1	2	3	4	5	6	4	6	8	10	12	14	16	
SAL8 H	A	2090	3690	5290	6890	8490	-	3690	5290	6890	8490	10090	11690	13290	
	W	1284	1284	1284	1284	1284	-	2384	2384	2384	2384	2384	2384	2384	
	H	1600	1600	1600	1600	1600	-	1600	1600	1600	1600	1600	1600	1600	
SAL8 V	A	2090	3690	5290	6890	8490	-	3690	5290	6890	-	-	-	-	
	W	905	905	905	905	905	-	905	905	905	-	-	-	-	
	H	1210	1210	1210	1210	1210	-	2310	2310	2310	-	-	-	-	
EAL9 H EHL90 H EHL95 H	A*	2623	4756	6889	9022	11155	13288	4756	6889	9022	11155	13288	-	-	
	W	1284	1284	1284	1284	1284	1284	2384	2384	2384	2384	2384	-	-	
	H	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	-	-	
EAL9 V EHL90 V EHL95 V	A*	2623	4756	6889	9022	11155	13288	4756	6889	9022	11155	13288	-	-	
	W	905	905	905	905	905	905	905	905	905	905	905	-	-	
	H	1210	1210	1210	1210	1210	1210	2310	2310	2310	2310	2310	-	-	
XAL9 H XHL95 H	A	2623	4756	6889	9022	11155	13288	4756	6889	9022	11155	13288	-	-	
	W	1509	1509	1509	1509	1509	1509	2834	2834	2834	2834	2834	-	-	
	H	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	-	-	
XAL9 V XHL95 V	A	2623	4756	6889	9022	11155	13288	4756	6889	9022	11155	13288	-	-	
	W	905	905	905	905	905	905	905	905	905	905	905	-	-	
	H	1435	1435	1435	1435	1435	1435	2760	2760	2760	2760	2760	-	-	

*+ 270 mm for models with opposite side connections

Certifications

The LU-VE Exchangers quality system is in accordance with ISO 9001. All products are manufactured according to PED regulations. LU-VE Exchangers participates in the ECP program for HE. Check ongoing validity of certificate: www.eurovent-certification.com

Code description

EAL	9	N	-	6231	D	V	(	2	x	3	)	*
1	2	3		4	5	6		7		8		9

- Flat Giants liquid coolers (SAL, EAL, EHL, XAL, XHL)
- Fan diameter (8=800 mm, 9 or 90=910 mm, 95=950 mm)
- Noise level (F-N=normal, S-X-T=quiet, U-R=residential)
- Model code
- Tube rows code
- Installation (H=horizontal, V=vertical)
- No. rows
- No. fans per row
- Options

