

AlfaSolar S/SR™ Air Cooled Liquid Coolers

Quick guide



1 How to contact Alfa LU-VE

Visit alfa.luvegroup.com to get detailed contact information.


Newest manual use link or QR-code: <http://alair.techmanuals.info/en/lc/solar/index.html>.



2 General description




AlfaSolar S/SR™ series are designed for outdoor cooling with water, various oil solutions and other working fluids, which do not corrode copper, aluminum or brazing material (EN ISO 17672 Cup 279).

Check the identification data on the product nameplate.

 <p>Manufacturer: _____ Year/month: _____</p> <p>Model: SRD3B09TN5D32H GS PP SW CB AP AL2.5 CU @ DN80+132_1x180 VD 70+130L 120083-53084</p> <p>O.A. : _____ Serial no: VA162420 Ref: 0000917269 Unit Net weight [kg] -1800 +/- 5%</p> <p>Coil data: Material: Cu Fluid Group: 2 PED category: AF 4.5 PS [bar_g]: 6 max DN 85 PT [bar_g]: 9 Volume [l] -17 --120 Coil TS [°C]: -60 / 110 Test date: _____018</p> <p>Motors n x [kW]: 6 x 3 D Vn [V]: 3/400V 50Hz Current [A]: 7,6 Speed [rpm]: 965</p> <p>WARNING Read the installation, operating and maintenance instructions before beginning these procedures to avoid injuries and damage. Find manual by QR code. Country of origin: Finland</p>	Product nameplate	
	Model	See Equipment description
	O.A.	Order Acknowledgement number
	Serial no: Ref	Communicate these when ordering spare parts as they identify the unit
	Unit net weight	Check weight before any lifting operation to ensure that proper lifting tools are used
	Coil data	
	Material	Tube material
	Volume	Internal volume
	Fluid group	According to PED
	max DN	Maximum diameter of the distributor tube
	Coil TS	Range of operating temperatures for the coil
	PS	Design pressure
	PT	Test pressure
	Test date:	Date on which the factory has pressure tested the coil

3 Transport and storage

3.1 Lifting package

	<p>WARNING:</p> <p>Lift and transport the units packed in an upright position very carefully.</p> <p>Handle high units very carefully. Never place them on an inclined or uneven plane.</p>
	<p>Danger of falling.</p>
	

Before lifting the unit, check the weight on the nameplate. Verify that the lifting supports at least the unit weight +10 %, when using a forklift. Only lift from the middle of the unit at the center of gravity supported by the pallet. For safe lifting, the forks must be longer than 2.5 m and fully inserted under the unit. Position the forks to the maximum width over the area supported by the pallet. Only lift an empty unit.

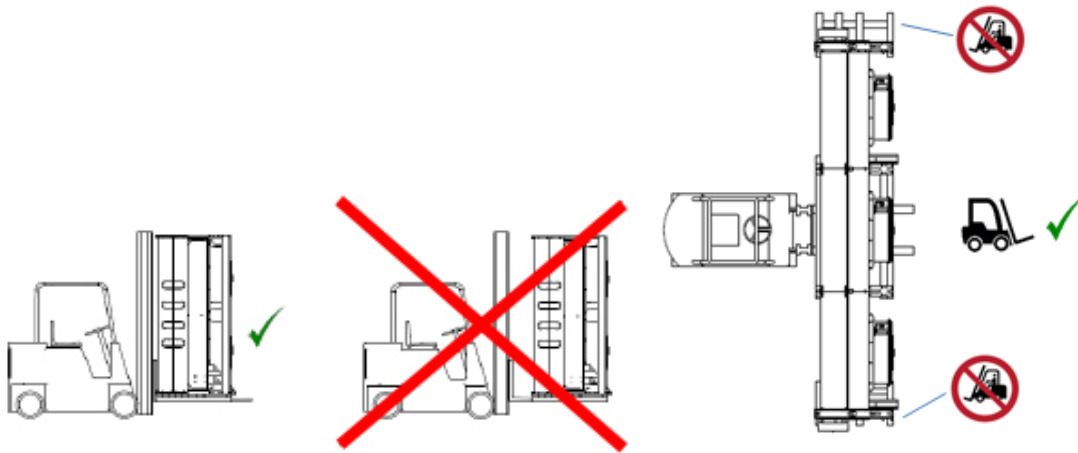


Figure 1: Correct lifting of Solar S/SR™ units with forklift

Before starting lifting, make sure that	✓
The manual is attached.	
You have noted all transport and lifting signs and instructions from the unit and packaging.	
You have made necessary advance control.	
You have checked the lifting device and it is functioning properly.	
The driver has the permission for lifting.	
The ground under the unit has enough bearing capacity.	

Before starting lifting, make sure that	✓
The device is correctly erected and horizontally installed.	
The support legs are in supporting position.	
The lifting capacity of the device is sufficient.	
The operators know how to use the lifting device according to the operation and safety instructions.	
No electric or other cables are near the lifting place.	
The working area of the lifting device is sufficient and safe.	
There are no obstacles or risks on the working area.	



Caution: Check that the unit is tied tightly to prevent it from moving during transport. Ensure that the binding does not damage the unit.

3.2 Unloading unit from standard truck



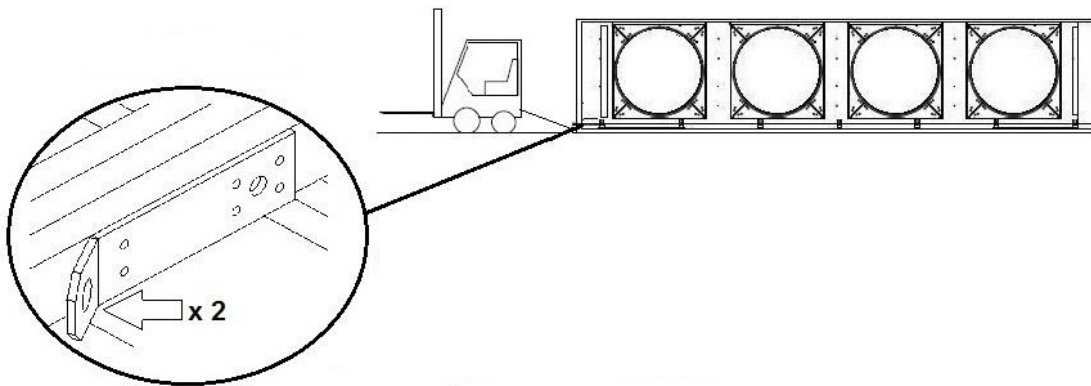
Note: Notice the weight of the unit to ensure safe lifting.

3.2.1 Unloading horizontal units from container

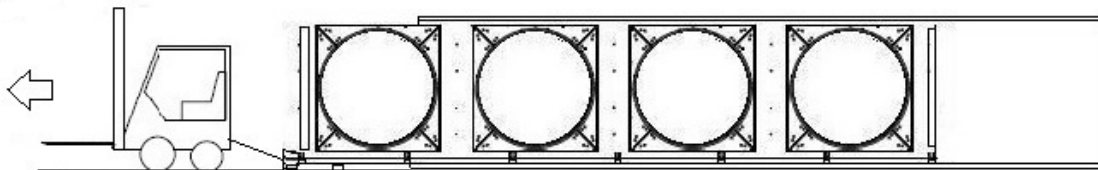
See lifting instructions in the full Solar S/SR instruction manual.

3.2.2 Unloading vertical units from container (Container on ground level)

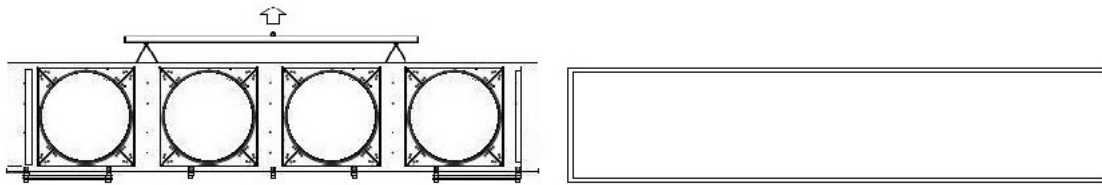
1. Use a chain with hooks to pull out the unit. Attach the hooks on both pull out plates mounted on the wooden pallet.



2. Use wooden bunks under the unit to prevent fall impacts.

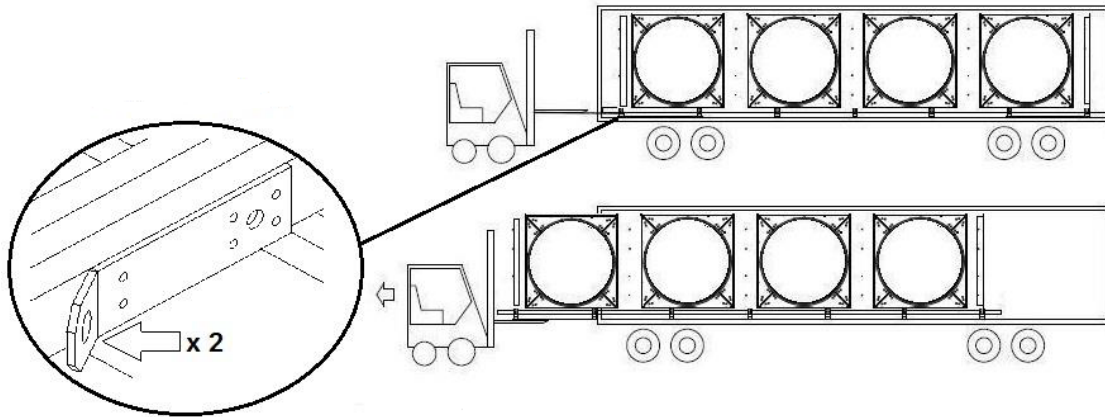


3. When the unit is pulled out, remove the pallet. Lift the unit by crane.



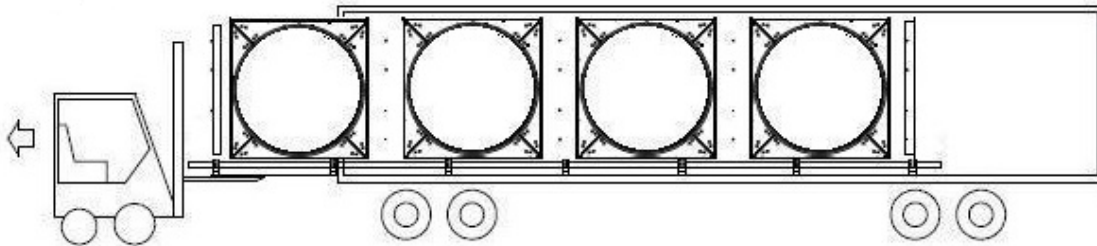
3.2.3 Unloading vertical units from container (Container on wheels)

1. Use a chain with hooks to pull out the unit. Attach the hooks on both pull out plates mounted on the wooden pallet.

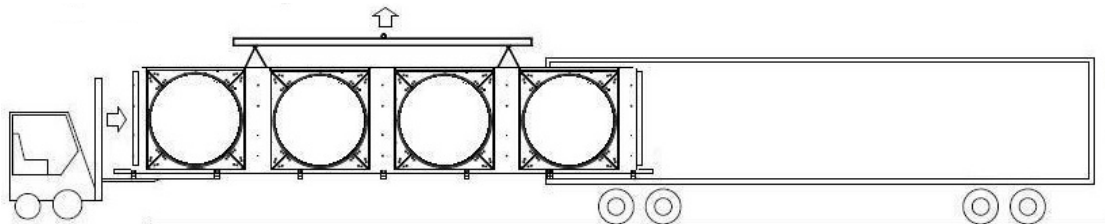


2. Hold up the end of the unit and continue pulling out.

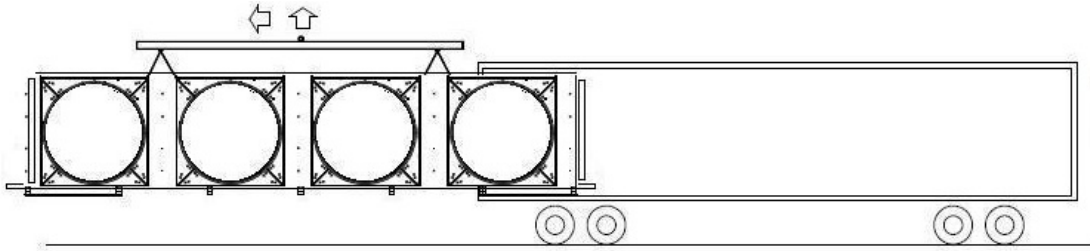
Note: Notice the weight of the unit to ensure safe lifting.



3. When the second pair of lifting eyes is outside the container, attach the lifting crane.



4. When the lifting crane holds up the unit, remove the fork-lift and lift the unit out of the container.



3.3 Packing

The standard truck pallet has two protection options.

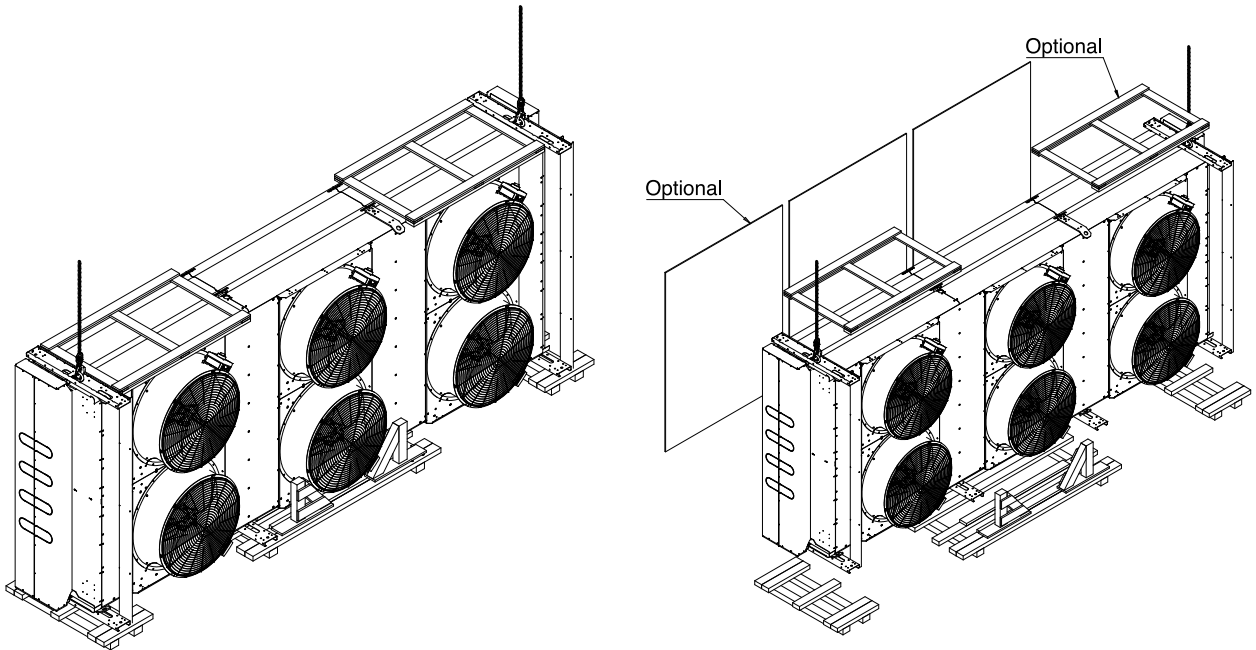


Figure 2: Upper part fastening protection (left) and hardboard coil protection (right)



Note: Do not lift the unit with the pallet when high mounting legs are mounted on the pallet.

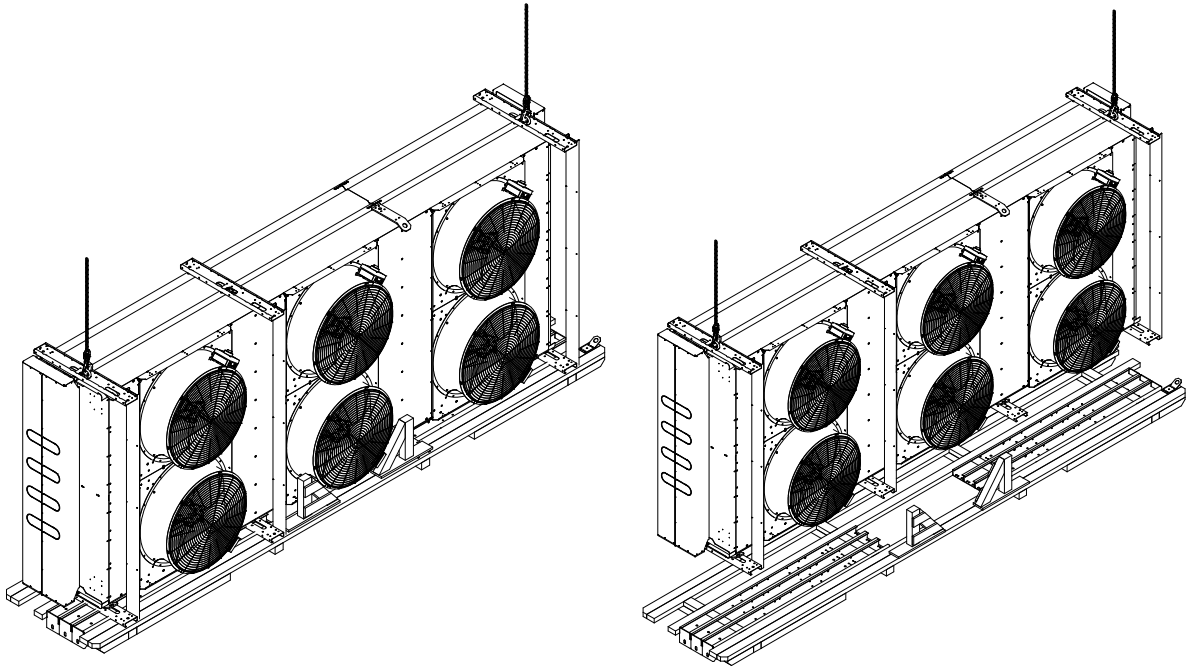


Figure 3: High mounting legs packing arrangement for truck and container transport

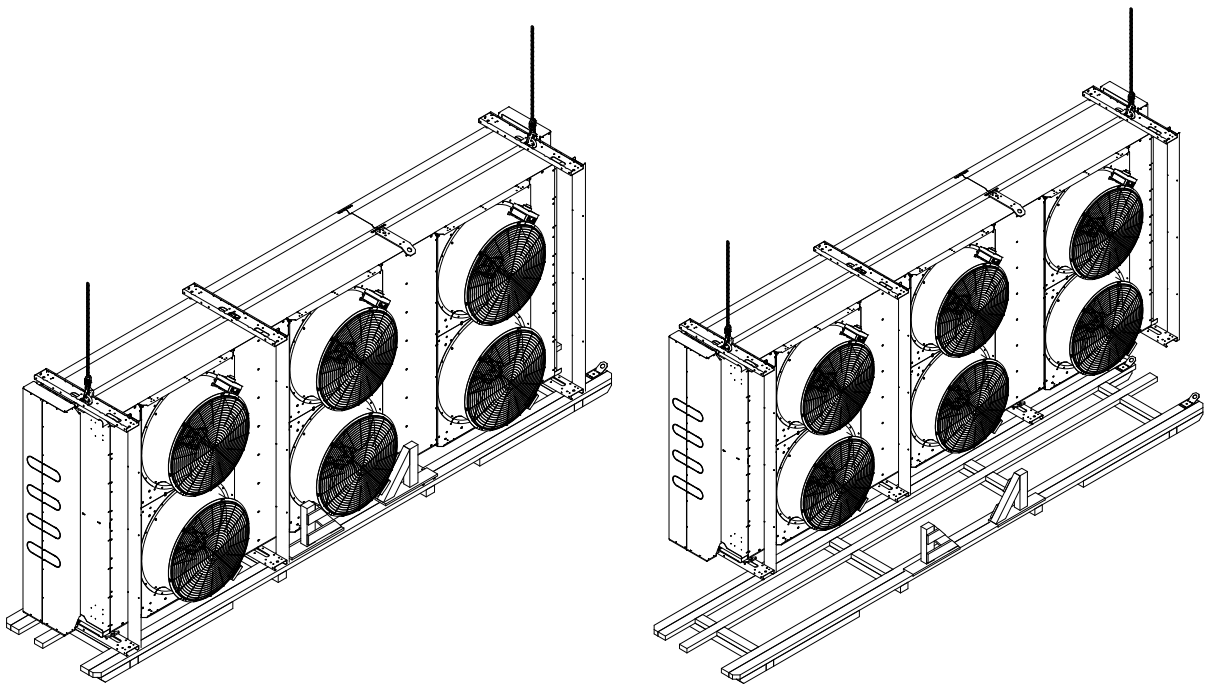





Figure 4: Container package only for Solar SR™

3.4 Lifting unit



Note: Contact the manufacturer for further information on turning and lifting the forced draught fans (FD).










WARNING:

Before lifting the unit, check its weight from the transport documents or from the product nameplate and make sure that the lifting device, crane or truck is appropriate.

1. Only use lifting equipment that is equipped with appropriate labels.
2. Ensure that the belts or slings with hooks used for lifting keep the equipment balanced.
3. Do not lift the unit with a crane before removing the pallet from under the unit.

Do not stand under the unit when it is hanging.

Caution: Air cooled heat exchangers are fragile products, which makes them extremely sensitive to incorrect handling during transport and positioning. Comply with the given instructions strictly to prevent the heat exchanger from being damaged during the lifting procedure.

Only qualified personnel using approved lifting equipment is allowed to carry out lifting operations.

When lifting the unit, use all lifting points in the direction of lifting. Do not mix the lifting points of vertical and horizontal position.

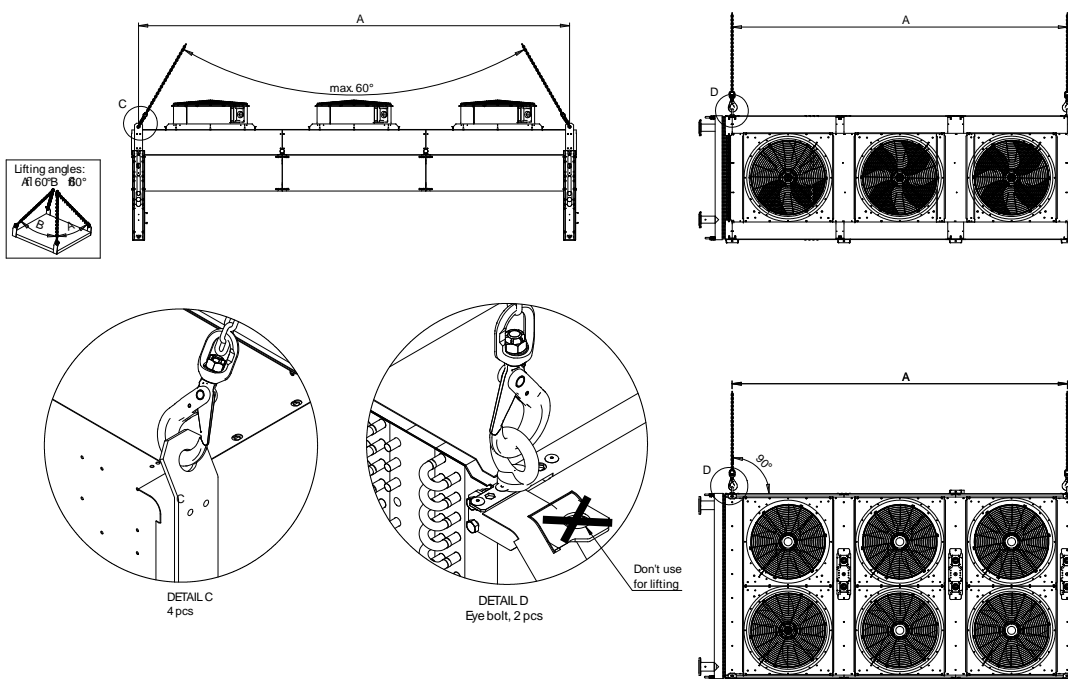


Figure 5: Unit lifting

3.5 Storage

See more detailed storage instructions in the full Solar S/SR™ instruction manual.

Do not store the units on an inclined or uneven plane.

Caution: During long term storage, operate the fans for 3...4 hours at least once a month.