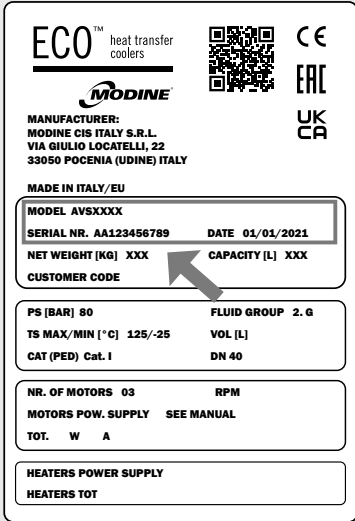


ECO-BATIC®

AVK AVS AVW QUICK GUIDE

This document is a concise version of the model manual. This document is not meant to be a replacement of the manual. To download the full manual please scan the QRcode below or locate the data label on the model and scan the QRcode.



ECO™ heat transfer coolers
MODINE

MANUFACTURER:
 MODINE CIS ITALY S.R.L.
 VIA GIULIO LOCATELLI, 22
 33050 POCENIA (UDINE) ITALY

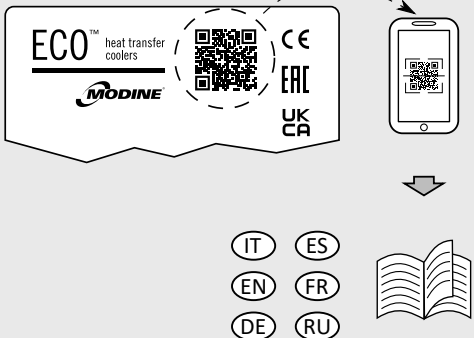
MADE IN ITALY/EU

MODEL AVSXXXX	
SERIAL NR. AA123456789	DATE 01/01/2021
NET WEIGHT (KG) XXX	CAPACITY (L) XXX
CUSTOMER CODE	

PS (BAR) 80	FLUID GROUP 2. G
TS MAX./MIN (°C) 125/-25	VOL (L)
CAT (PED) Cat. I	DN 40

NR. OF MOTORS 03	RPM
MOTORS POW. SUPPLY	SEE MANUAL
TOT. W A	

HEATERS POWER SUPPLY	
HEATERS TOT	



ECO™ heat transfer coolers
MODINE

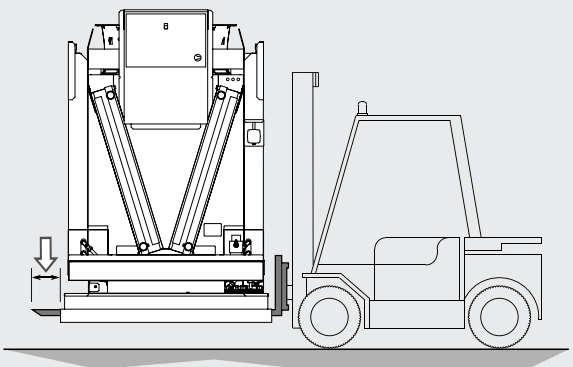
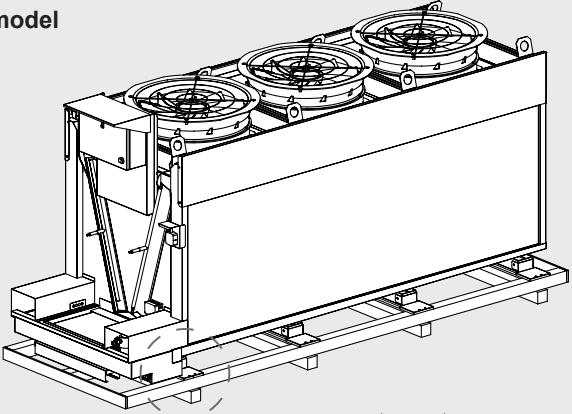
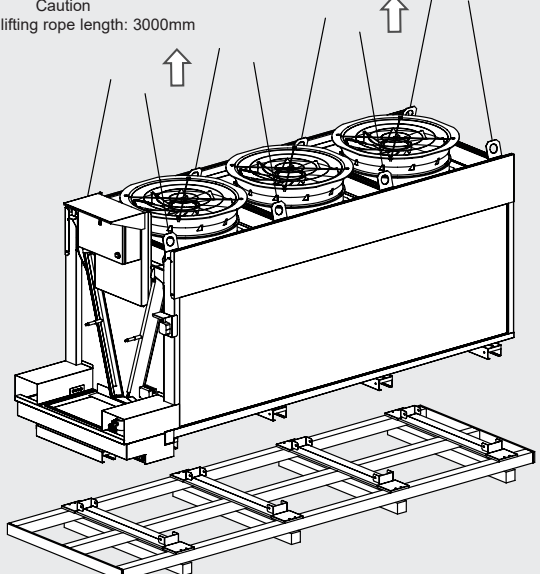
IT ES
 EN FR
 DE RU

Before removing the packaging, handling, assembling, positioning, commissioning of the machine and before performing any work on the model, download and carefully read all the information in the manual. If in doubt contact Modine.

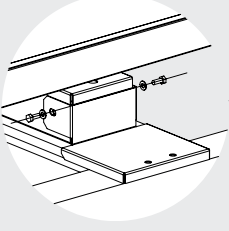
Handling and basic installation

Refer to the manual for further details.

! Single-row model

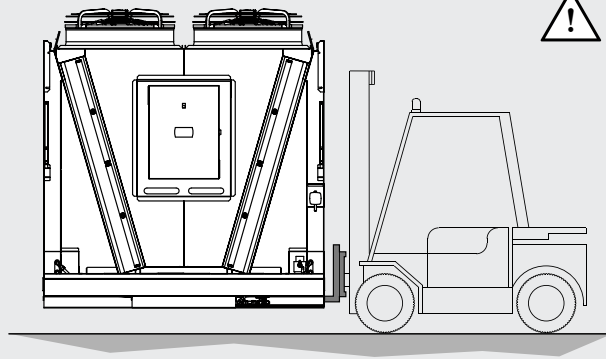
! Caution
 Minimum lifting rope length: 3000mm



30°
 60° MAX

! Caution.
 Please consult the model manual for detailed instructions on loading and unloading the unit from the transport vehicle, as well as for proper handling procedures.

! Two-row model



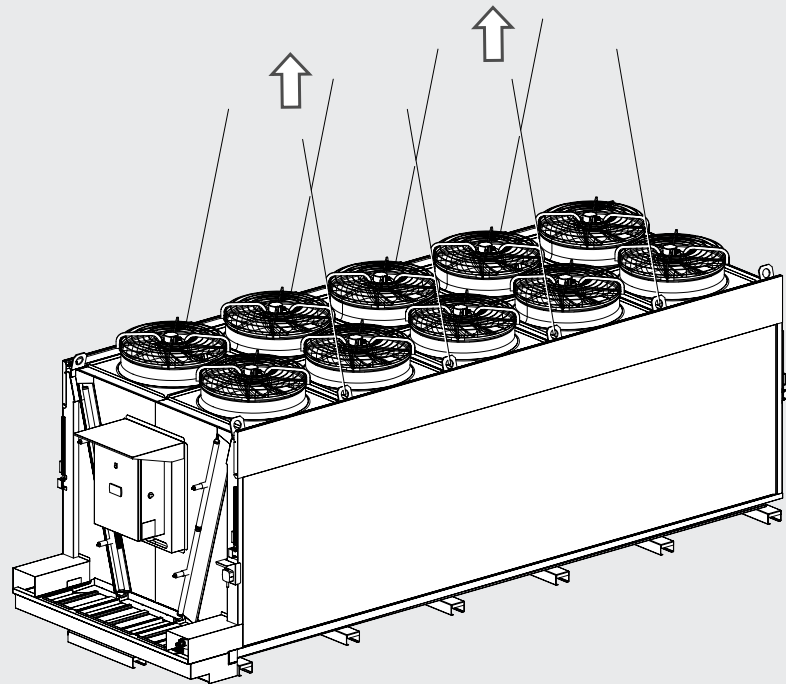
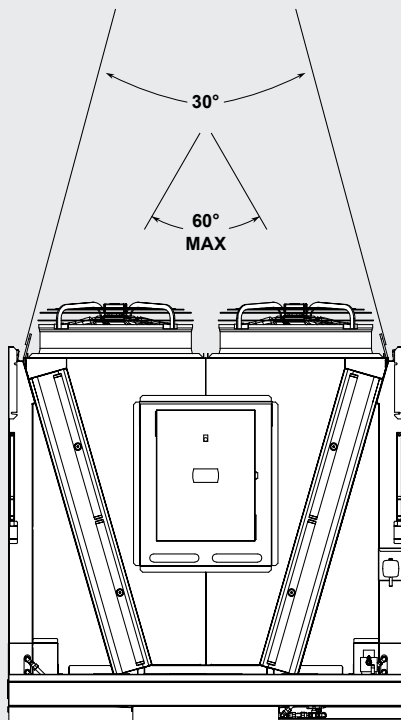
Caution.
Please consult the model manual for detailed instructions on loading and unloading the unit from the transport vehicle, as well as for proper handling procedures.



Caution
the forklift forks must have minimum length: 2400mm



Caution
Minimum lifting rope length: 6000mm

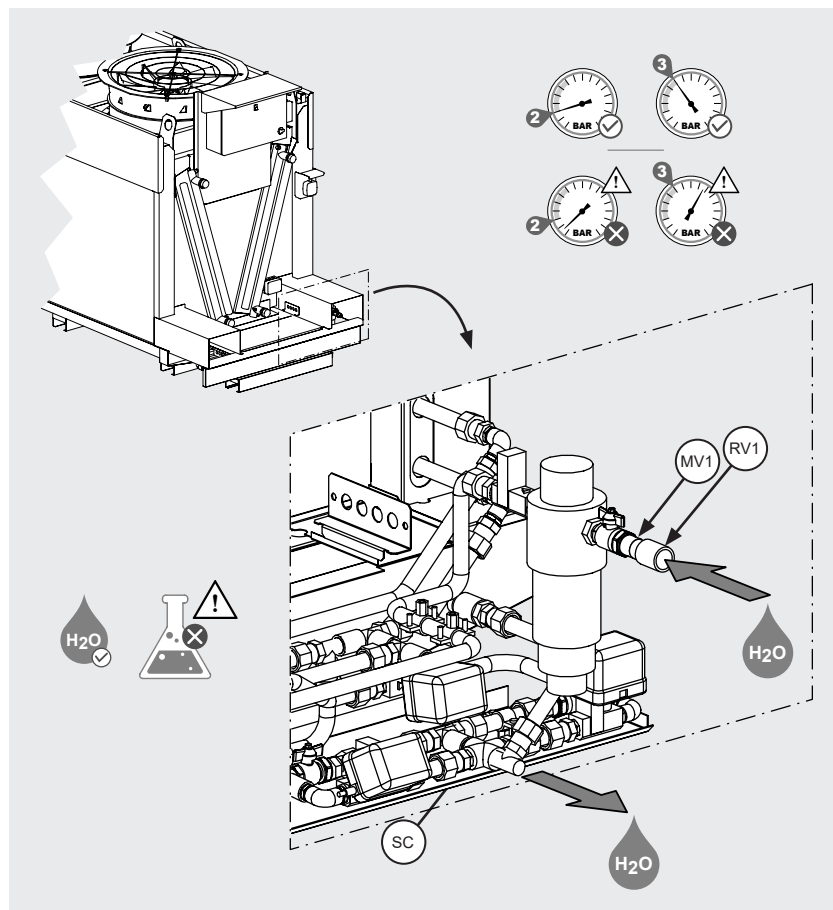


- 1.1 The packed model must be moved by qualified personnel using a forklift truck of adequate capacity, or by crane and/or overhead travelling crane. Avoid any sudden movement and do not stand near the maneuvering area. Always secure models to the lifting gear before handling. A large bump or strong push can cause the model to overturn.
- 1.2 To proceed with installation in the case of a single-row model:
 - 1.2.1 for handling with a forklift truck, the lifting brackets must be longer than the depth of the packaging and/or model.
 - 1.2.2 unscrew the screws that secure the model's support brackets to the transport pallet.
 - 1.2.3 attach the crane or overhead crane to the lifting points.
 - 1.2.4 lift the model and place it in its final location. Use all lifting points.
- 1.3 To proceed with installation in the case of a two-row model:
 - 1.3.1 For handling with a forklift, the lifting brackets must be longer than or at least equal to 2400mm.
 - 1.3.2 attach the crane or overhead crane to the lifting points.
 - 1.3.3 lift the model and place it in its final location. Use all lifting points.



Refer to the manual for complete instructions.
Read the manual carefully before performing any operations on the model.

1.4 Connect the adiabatic system to the mains water circuit. It is advisable to check the water quality. The UNI8884 standard "Characteristics and treatment of water in cooling and humidification circuits" suggests supplying the adiabatic system with drinking water having the following characteristics:



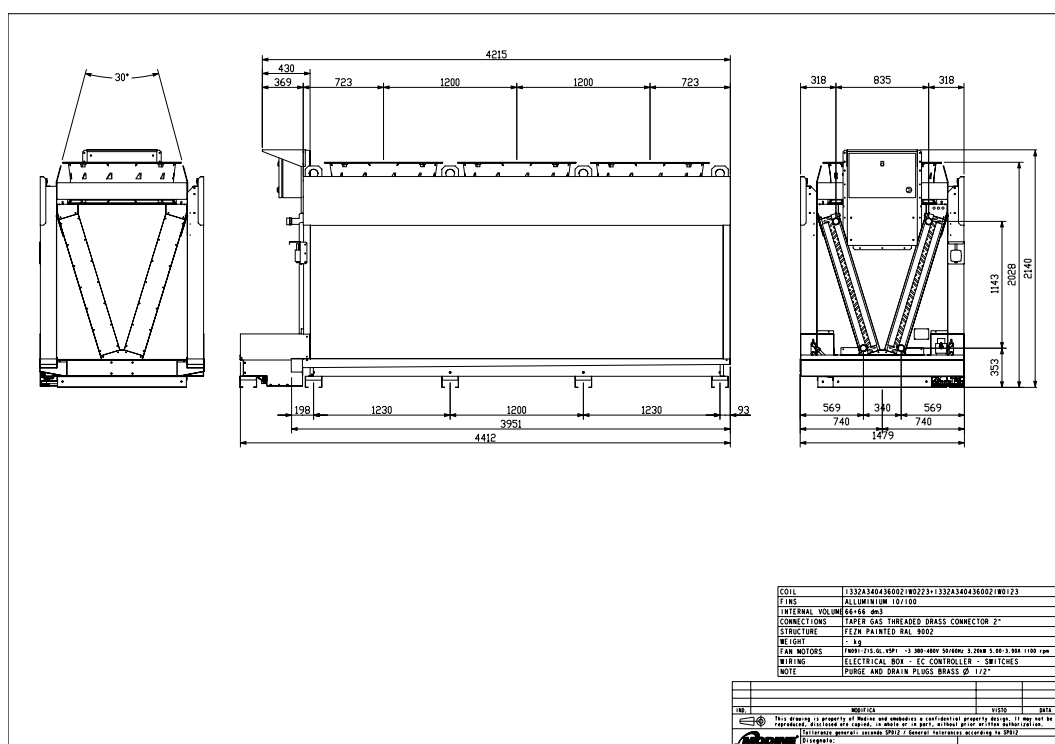
- electrical conductivity < 100 $\mu\text{S}/\text{cm}$ (20°C)
- total hardness < 5°fH (ref. 50ppm CaCO_3)
- 6.6 < pH < 8.5
- chloride content < 20 mg/l
- silica content (SiO_2) < 5 mg/l

Recommended values of potential nutrients for algae, fungi and bacteria are:

- BOD₅ < 3mg/l
- Nitrates NO_3^- < 50mg/l
- Phosphates PO_4^{3-} : absent

Construction and dimensional features

Refer to the drawing supplied with the model. Example:

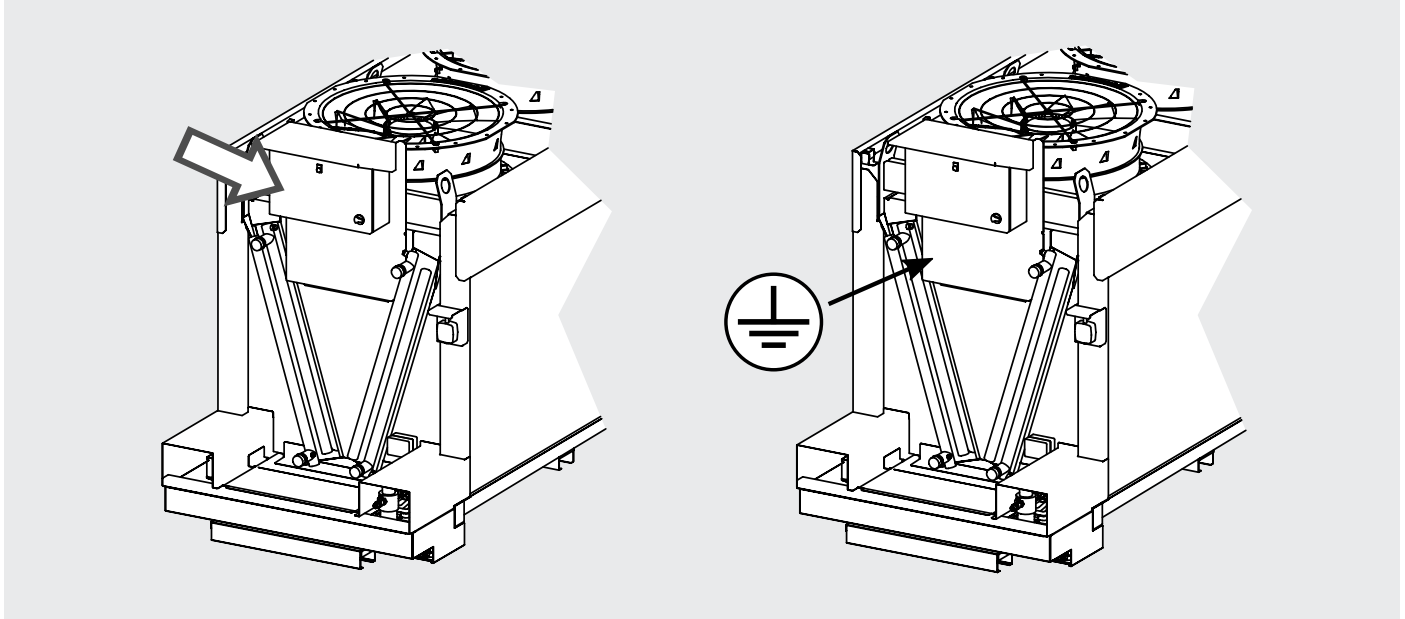


Wiring diagrams

Refer to the diagrams supplied with the model.

To minimise the risk of indirect contact, the electrical system can be earthed using the pin on the front.

It is mandatory to use power cables with a minimum cross-section as indicated in Tab. 1. Please refer to the technical standards in force in the country of installation, based also on the way the cables are laid and their length and type.



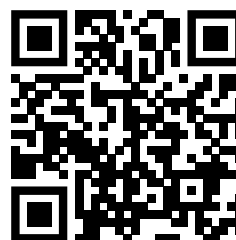
Nominal current [A]	Power cable cross-section [mm ²]
11	1.5
15	2.5
20	4
26	6
36	10
48	16
64	25
80	35
95	50
150	95
170	120

Table 1



Modine CIS Italy S.r.l.
 33050 Pocenia - Udine - Italy
 Via Giulio Locatelli, 22
 Tel. +39 0432.772.001
 Fax +39 0432.779.594
 www.modine.com

Link to user manuals:



<https://www.modinecoolers.com/documents/>