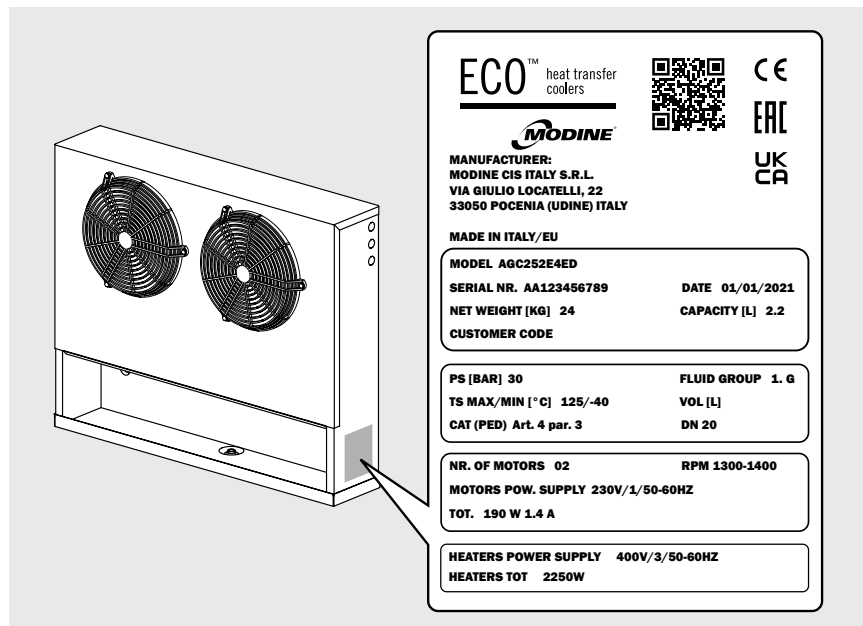


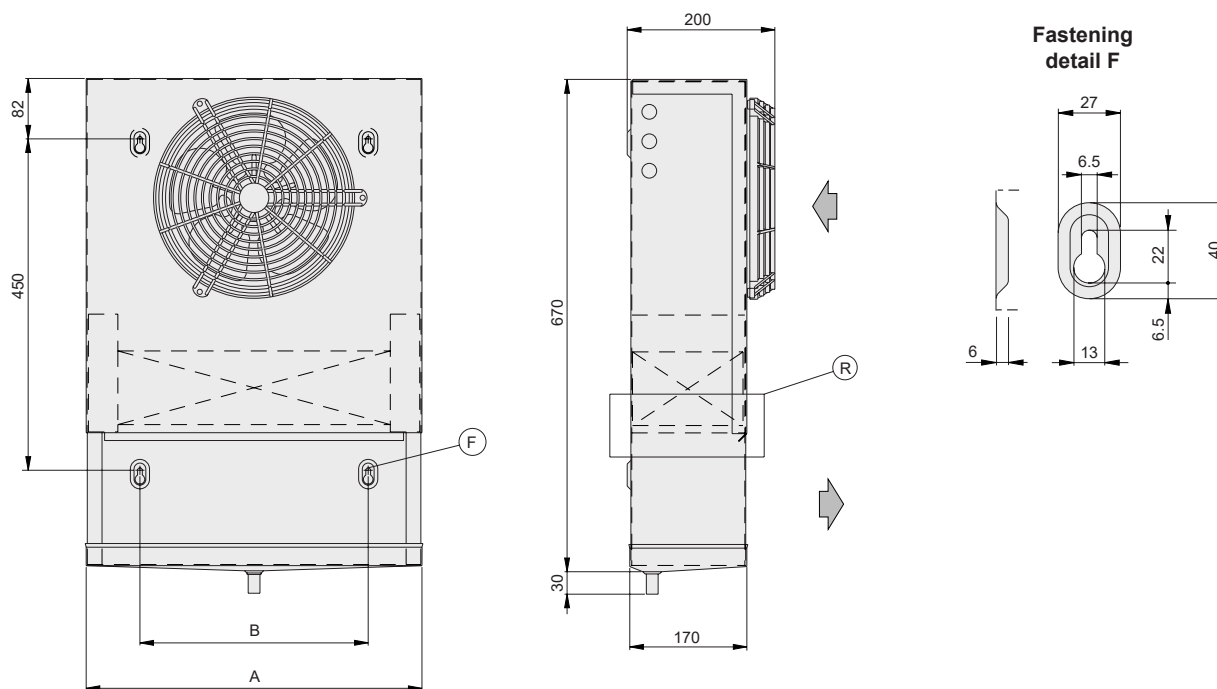
AP

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.



Construction and dimensional features



MF = Heater clip

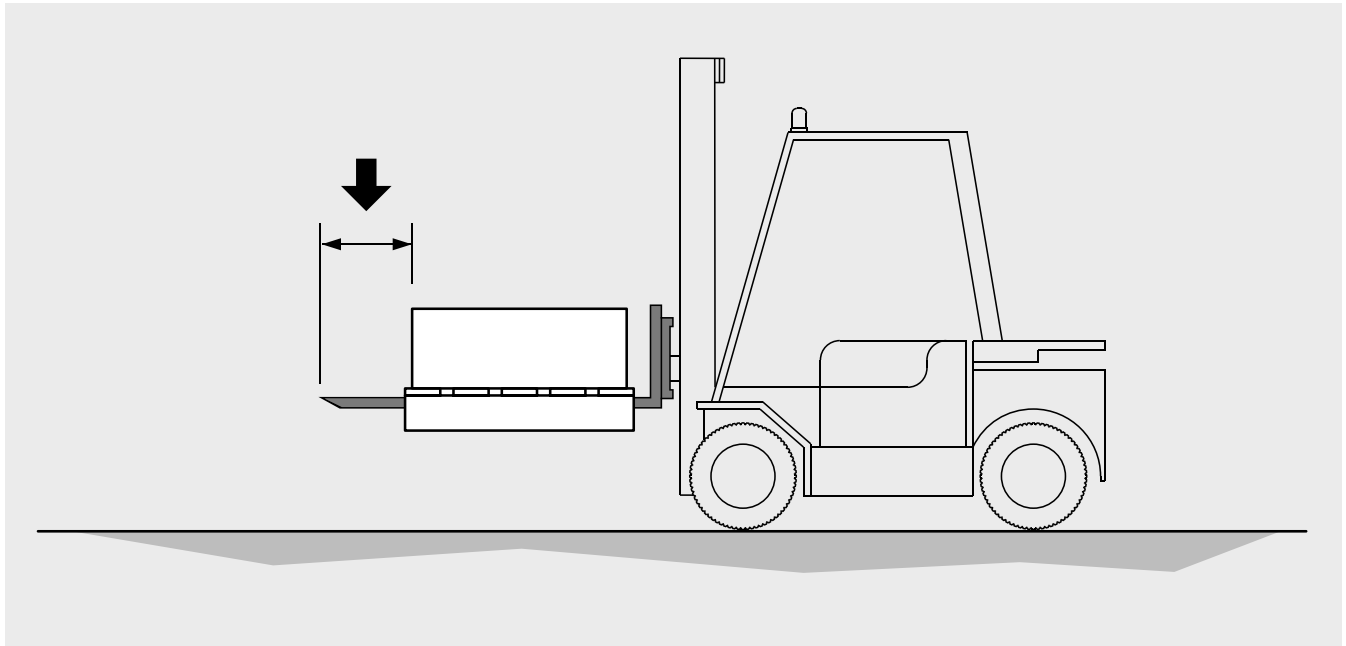
R0 = Heater

Model	AP	080	081	101	201	301
		080B	081B	101B	201B	301B
Motorfans	n° x Ø mm	1x230	1x230	2x230	2x230	3x230
Dimensions	A	460	460	460	810	1160
	B	310	310	310	660	1010
Coil connections	In (SAE)	1/2"	1/2"	1/2"	5/8"	5/8"
	Out (SAE)	1/2"	1/2"	1/2"	5/8"	5/8"
Drain connection	Ø (mm)	16	16	16	16	16
Net weight	kg	6.4	6.4	7.1	12.1	16.8









XXXXXX : Thermostatic valve with external pressure equaliser recommended

Handling and installation

- 1.1 The models are supplied in a cardboard box and/or wooden cage.
- 1.2 The packaged model must be moved by qualified personnel using a forklift truck of suitable capacity, or with crane and/or overhead crane. The lifting brackets must be longer than the depth of the packaging and/or of the model. Avoid any abrupt movement and do not stand close to the manoeuvring area. Always ensure that the models are secured to the hoists before handling operations. A heavy impact or a strong thrust can overturn the model.



- 1.3 The model must always be kept in position as indicated on the packaging.
- 1.4 Avoid applying improper pressure to the packaging during handling. Take care not to damage the headers.
- 1.5 Unpack the unit close to the installation site.
- 1.6 Always use PPE (Personal Protection Equipment) during handling and installation, e.g. gloves that are sufficiently resistant to mechanical hazards, to reduce the risk of injury in the event of contact with sharp sheet metal edges or the finned pack.
- 1.7 It is essential to take all the necessary measures to ensure the complete safety of the operators in order to prevent the model from accidentally falling against people. It is forbidden to work under a suspended load. It is advisable to prepare a structure of greater capacity than the weight to be supported (trestle or props) on which to place the model.
- 1.8 When installation is complete, remove the protective film covering the model.
- 1.9 When installation is complete, dispose of packaging according to local regulations.
- 1.10 If brackets are provided, install and maintain them for future use.
- 1.11 The following table summarises the PPE (Personal Protection Equipment) to be used during the various phases of the life of the equipment (each stage involves the obligation to use and provide PPE), in order to protect the health and safety of operators.
- 1.12 The responsibility for the identification and choice of the type and category of PPE that is appropriate and suitable lies with the user.

Phase								
	Protective clothing	Safety footwear	Gloves	Goggles	Visor	Ear protectors	Mask	Helmet or head gear
Transportation	NP	NP	NP	NP	NP	NP	NP	NP
Handling	X	X	X	X	NP	NP	NP	X
Unpacking	X	X	X	X	NP	NP	NP	X
Assembly	X	X	X	X	NP	O	NP	X
Ordinary use	NP	NP	NP	NP	NP	NP	NP	NP
Adjustments	X	X	X	NP	X	O	NP	NP
Cleaning	X	X	X	NP	X	O	X	NP
Maintenance	X	X	X	NP	X	O	O	X
Dismantling	X	X	X	NP	X	O	NP	X
Demolition	X	X	X	X	NP	O	NP	O

X : Recommended PPE

O : PPE available or to be used if necessary

NP : PPE not recommended

1.13 The definitions of the phases of life of the equipment are described in the following table.

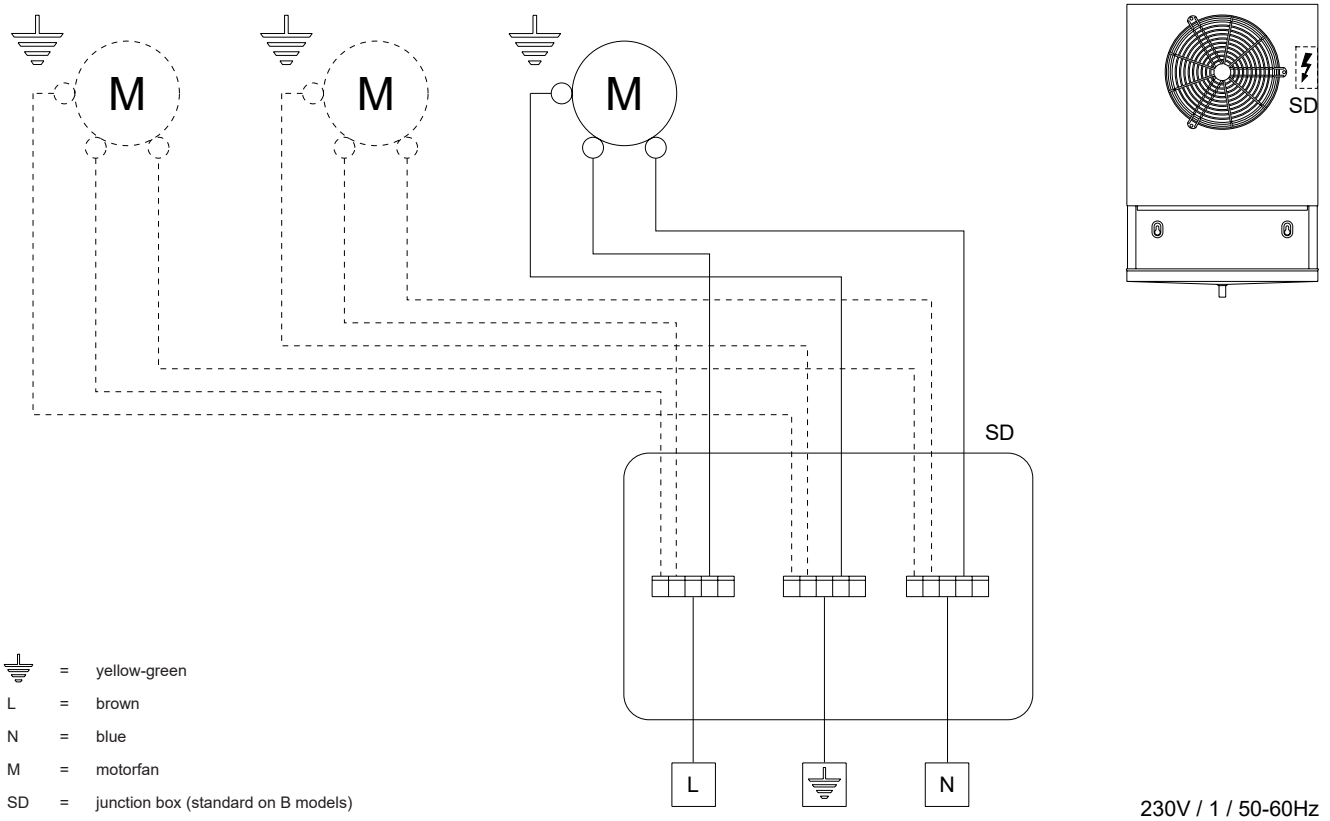
Phase	Description
Transportation	It consists of transferring the equipment from one location to another through the use of suitable means.
Handling	It consists of transferring the equipment from and on the means used for transportation and movements within the plant.
Unpacking	It involves removal of all the materials used for packaging of the equipment.
Assembly	It involves all the assembly operations that initially prepare the equipment for fine-tuning.
Ordinary use	Use for which the equipment is intended (or that is considered usual) in relation to its design, construction and function.
Adjustments	These involve the adjustment, fine-tuning and calibration of all those devices which must be adapted to the condition of operation normally envisaged.
Cleaning	It involves the removal of dust, oil and residues of processing that could compromise the efficient operation and use of the equipment, as well as the health and safety of the operator.
Maintenance	It involves periodic verification of the parts of the equipment that can wear out and that must be replaced.
Dismantling	It involves the complete or partial dismantling of the equipment for any type of necessity.
Demolition	It involves the definitive removal of all parts of the equipment resulting from the operation of definitive dismantling to allow the possible recycling or differentiated collection of components according to the procedures laid down by the existing rules of law.

Wiring diagrams

Motor-fan connection diagram

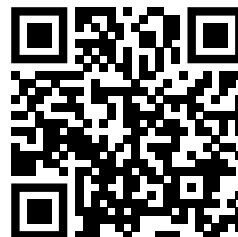
Important. The motors are equipped with inner thermal protection with automatic reconnection. Before using motor speed control systems verify the compatibility with the motors. Non compatible systems may damage motors or increase noise level; Modine will not be responsible for model performance with speed control systems. For fans equipped with thermal contacts (TK), these must be connected to the control circuit. For models supplied with wiring in a junction box, remove the cover to make the connection.

Model	AP	080		081		101		201		301	
		080B		081B		101B		201B		301B	
Motorfans	n° x Ø mm	1x230				1x230		2x230		3x230	
Frequency	Hz	50	60	50	60	50	60	50	60	50	60
Electrical consumption	A	0.35		0.35		0.70		1.05			
	W	53		53		106		159			
RPM		1300		1300		1300		1300			



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:



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