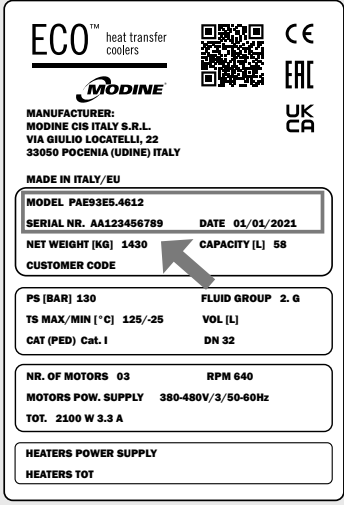


PAE - PKE73

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

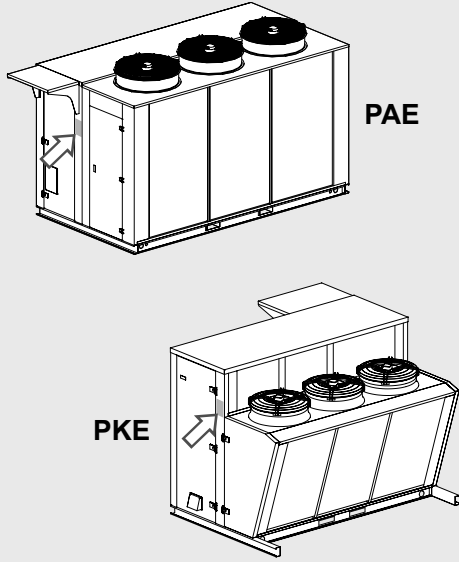
MADE IN ITALY/EU

MODEL PAE93E5.4612
SERIAL NR. AA123456789 DATE 01/01/2021
NET WEIGHT [KG] 1430 CAPACITY [L] 58
CUSTOMER CODE

PS [BAR] 130 FLUID GROUP 2. G
TS MAX/MIN [°C] 125/-25 VOL [L]
CAT (PED) Cat. I DN 32

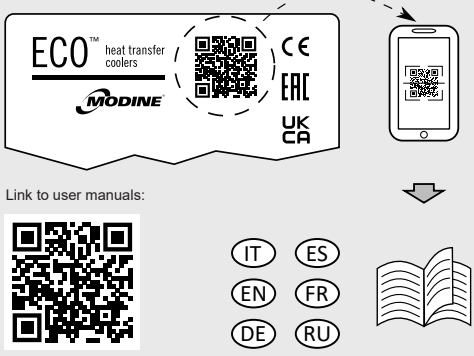
NR. OF MOTORS 03 RPM 640
MOTORS POW. SUPPLY 380-480V/3/50-60Hz
TOT. 2100 W 3.3 A

HEATERS POWER SUPPLY
HEATERS TOT



PAE

PKE



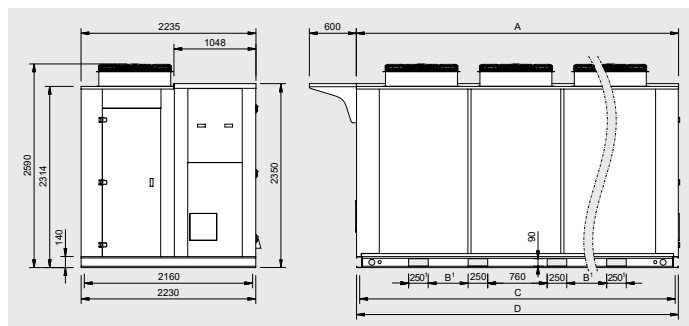
Link to user manuals:

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.

Construction and dimensional features

PAE model

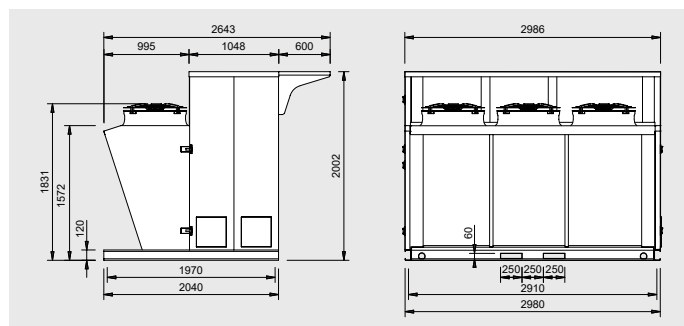


Model	PAE	83	85	93	95
Motorfans	n° x Ø mm	3x800	5x800	3x910	5x910
Dimensions [mm]	A	4116	6010	4116	6010
	B	-	1000	-	1000
	C	4040	5934	4040	5934
	D	4110	6004	4110	6004
Net weight ²	kg	1850	2450	1870	2500

1) This dimension is not present in 3-engine models PAE83/93

2) Please refer to the label on the model and to the documentation supplied with the order for a precise weight estimate and for the diameter of the heat exchanger connections

PKE Model



Model	PKE	73
Motorfans	n° x Ø mm	3x710
Net weight ¹	kg	1145

1) Please refer to the label on the model and to the documentation supplied with the order for a precise weight estimate and for the diameter of the heat exchanger connections

Wiring diagrams

- 1.1 Upon request, models can be supplied with wiring in a junction box (or switchboard):
 - on PAE models: looking at the model from the heat exchanger side, open the heat exchanger compartment door on the left and locate the junction box on the partition panel.
 - on PKE models: looking at the model from the heat exchanger side, open the door of the heat exchanger compartment on the left and locate the junction box on the support fixed to the partition wall.
- 1.2 All work on the model must be carried out by authorised and qualified personnel with the necessary training and skills in accordance with the applicable regulations. Work is only permitted if an order to that effect has been given.
- 1.3 The use of PPE is recommended (see Model Manual).
- 1.4 Pay particular attention to the edges of the metal sheets and the finned pack: some edges may be sharp.
- 1.5 To open the doors of the heat exchanger compartment, use the keys supplied with the model and, if present, turn the appropriate handle (PKE). The keys must be kept by the operator working on the model until the work is completed. After the work is completed, the keys must be stored in a secure location where access is restricted to only those qualified and authorised to work on the model.
- 1.6 Once the work is over, ensure that no-one is present in the compartments before closing the model access doors. It is the operator's responsibility to ensure that the model is safely closed.
- 1.7 Remove any unnecessary items from the inside of the model.
- 1.8 Once the work is over, ensure that the work area is thoroughly cleaned.
- 1.9 Do not work on the fans from the inside of the heat exchanger compartment: all operations on the fans must be carried out from the outside by removing the relevant fixing screws. Do not remove or force the grilles and/or fan safety nets installed under the conveyor.
- 1.10 The model must not be put into operation until all doors have been properly closed and the keys have been placed in a safe place (see Model Manual).
- 1.11 The model must not be operated if one or more operators are still working on any part of the model.
- 1.12 For wired models, refer to the diagram supplied with the model.
- 1.13 For non-wired models, refer to the diagram printed on the inside of the fan box.
- 1.14 It is mandatory to use power cables with a minimum cross-section as indicated in "Table 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.
- 1.15 To minimise the risk of indirect contact, the electrical system can be earthed using the relevant pin (see "Figure 1").

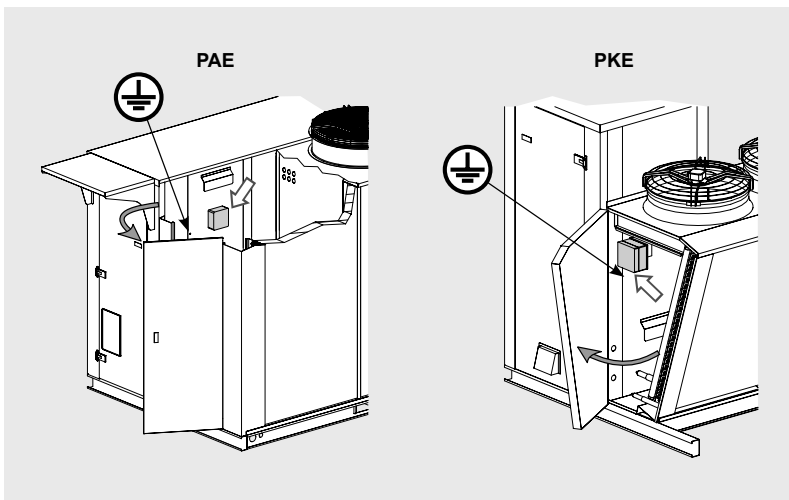


Figure 1

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

Handling and installation

- 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 Take care not to tilt the model during transport and handling. Danger of tipping over.
- 1.3 When transporting and handling the packed model, do not apply improper pressure to the packaging. Always keep the packaging in the position indicated by the superimposed graphics.

- 1.4 Always use Personal Protective Equipment when transporting and handling the packed model. Mind the protruding and sharp parts (e.g. heat exchanger fins).
- 1.5 For handling with a forklift truck, the lifting brackets must be longer than the depth of the package and/or model.

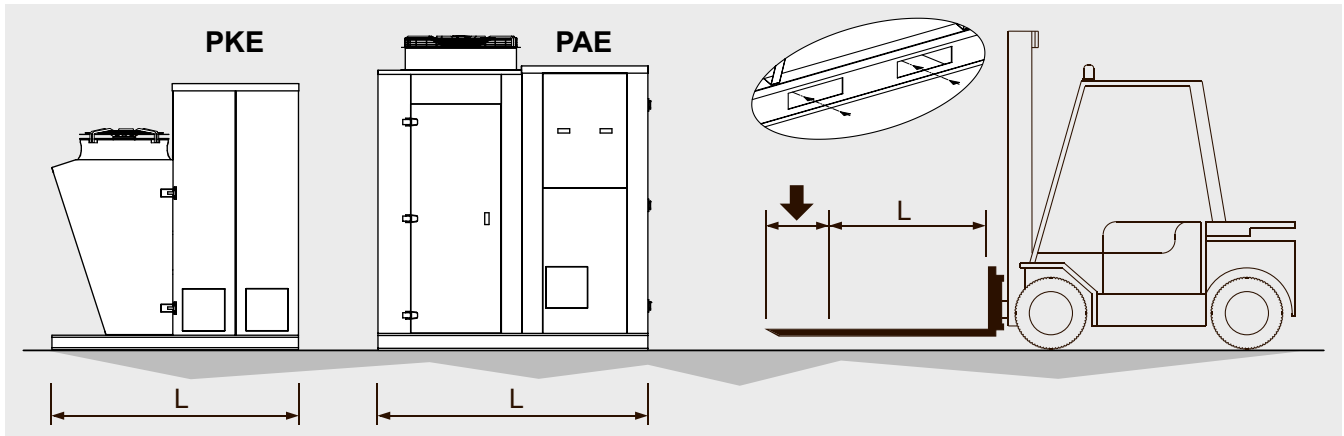


Figure 3

- 1.6 For handling with a crane or overhead crane, insert tubular lifting beams into the holes provided on the base and apply the straps or ropes, taking care not to crush the upper structure of the model. Use one or more lifting sling bars if necessary.
- 1.7 Unpack the model as close to the installation site as possible. The model should not be transported without its original packaging.

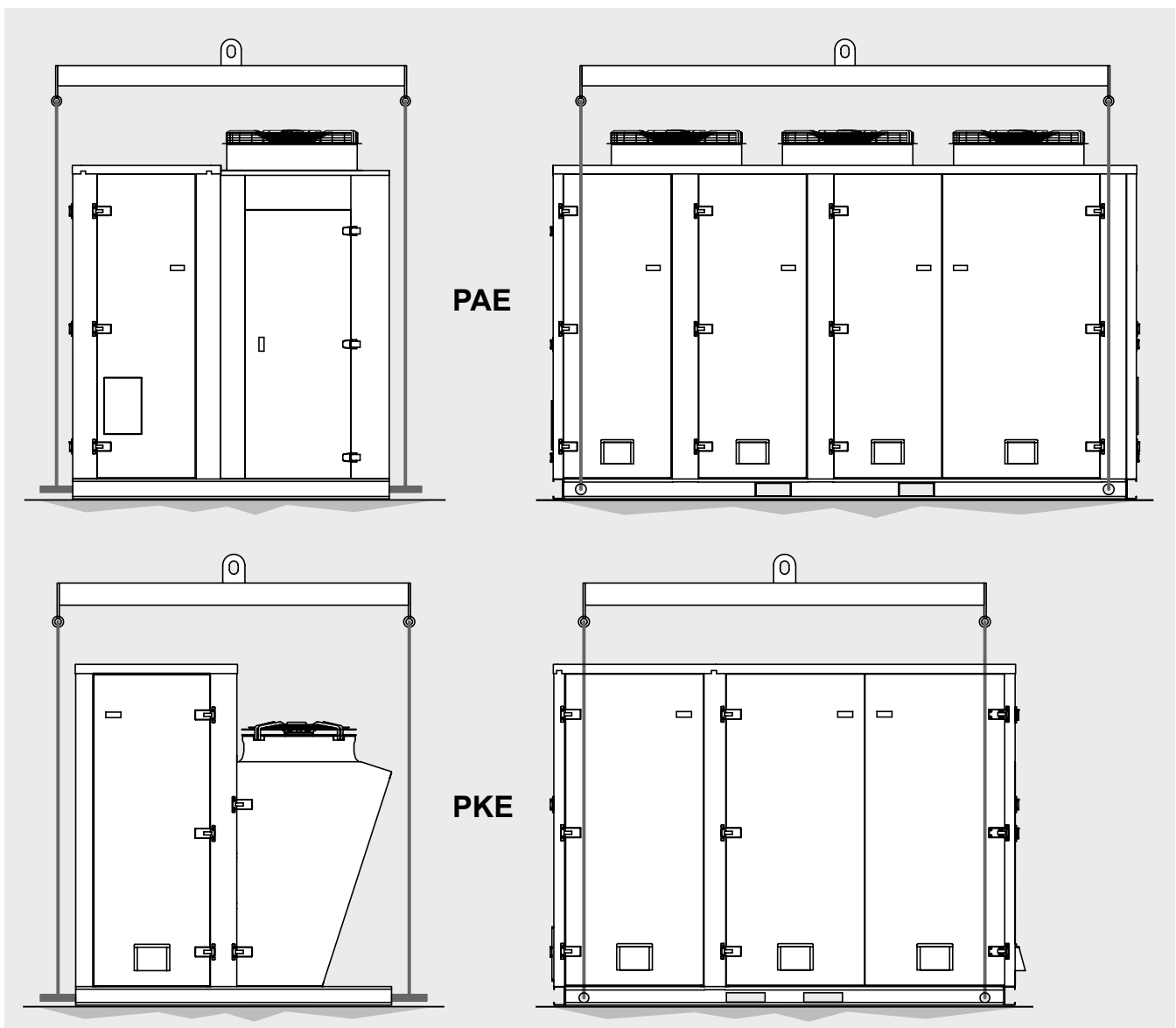










Figure 4

- 1.8 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.
- 1.9 The responsibility for the identification and choice of the type and category of PPE that is appropriate and suitable lies with the user.
- 1.10 The PPE used must comply with the directives of the product and bear the CE marking (for the European market).

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	X
Cleaning	X	X	X	NP	X	O	X	X
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	X

X : Recommended PPE

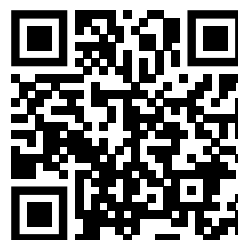
O : PPE available or to be used if necessary

NP : PPE not recommended



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Link to user manuals:



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