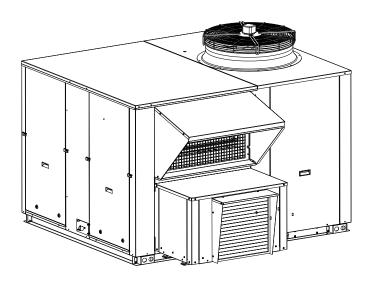


Exhaust fan for ROOF TOP ACTIVA 017/040



Options and Accessories, Installation manual

Ref.: N-40395_EN 0911







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Exhaust fan for ROOF TOP ACTIVA 017/040



1.1 General information

The extraction fan is suitable for units using an economiser or motorised damper, in installations where the return air is ducted and planned air exhaust is above 25% of the total supply air flow.

Up to approximately 30% of outdoor air inlet opening, operating as a barometric damper. The fan is enabled at this point and the air is discharged directly outdoors.

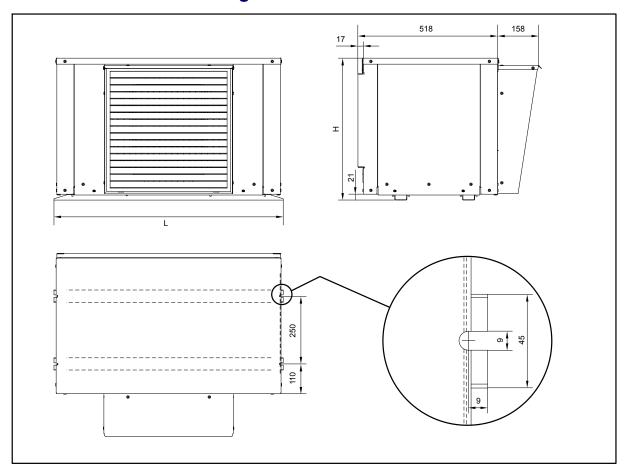
If the return duct connection to the unit is at the bottom, the exhaust fan assembly is installed on the side of the unit. See section *Installation in unit with lower return duct, see on page 3*.

If the return duct connection to the unit is on the side, the exhaust fan assembly is installed directly on the front of the return duct, as close to the unit as possible. See section *Installation in unit with side return duct, see on page 4*

In both cases a bracket must be provided to support the exhaust fan assembly. See the dimensions of the support feet existing on the base of the unit. *Dimensions and weight, see on page 2*.

The assembly is supplied pre-assembled for on-site installation. A cable is supplied for connection of the fan to the electric box.

1.2 Dimensions and weight

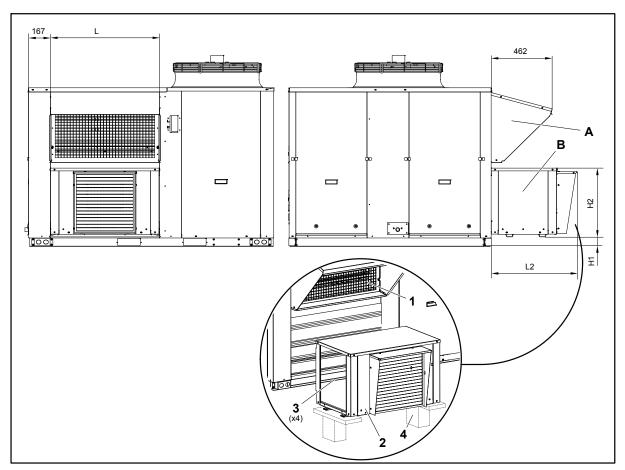


Models	L	Н	Weight [kg]
017 / 022	845	544	60
032 / 0440	1100	590	75



1.3 Installation

1.3.1 Installation in unit with lower return duct



- Α Economiser rain protection
- В Exhaust fan
- 1 Outdoor air inlet

- 2 Pre-assembled exhaust fan assembly
- 3 M6x20 bolts (x4)
- 4 Brackets (NOT supplied)

Model	L	L2	H1	H2
017 / 022	830	655	73	655
032 / 040	1080	655	35	723

1. Remove and dispose of the original side panel on the unit.



ATTENTION

Dispose of the components in the appropriate places or take them to an appropriate collection centre. Respect the regulations in force for this type of waste in the country where the unit is being installed.

- 2. Remove the two fan access panels of the exhaust assembly.
- 3. Place the exhaust fan assembly in the opening on the side of the unit and fix it with the four M6x20 bolts supplied (two on the top flange and two on the bottom flange).



NOTE

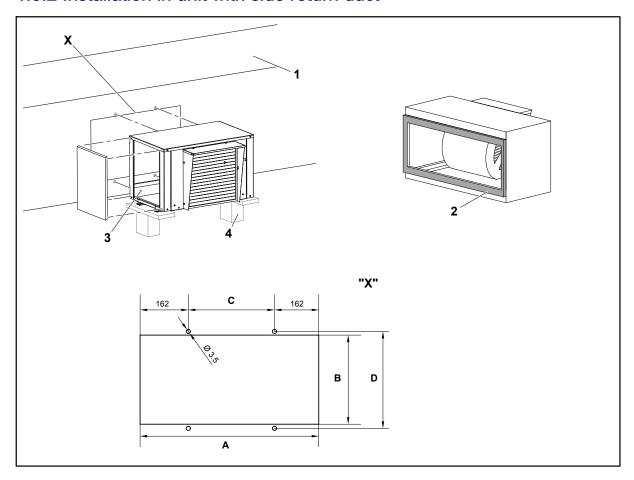
The holes and fixing nuts in the front flanges of the opening in the unit are hidden under the sealing strip. In this case it is not necessary to add a sealing strip on the fan assembly.

4. Install the two fan access panels, making sure that they are sealed.





1.3.2 Installation in unit with side return duct



- 1 Side return duct
- 2 Sealing strip placement zone (support perimeter)
- 3 M6x20 bolts (x4)

- 4 Brackets (NOT supplied)
- X Detail of the cut on the front side of the return duct

Model	Α	В	С	D
017 / 022	764	280	440	320
032 / 040	1014	375	690	415

1. Make an opening and holes on the front side of the duct according to detail -X-.



ATTENTION

There must not be any separation between the different sealing strips to ensure a correct sealing.

- 2. Place the sealing strip along the entire support perimeter of the exhaust fan assembly.
- 3. Remove the two fan access panels of the exhaust assembly.
- **4.** Place the assembly on the duct opening and fix it with the four self-threading screws with seal washers.
- 5. Install the two fan access panels, making sure that they are sealed.



NOTE

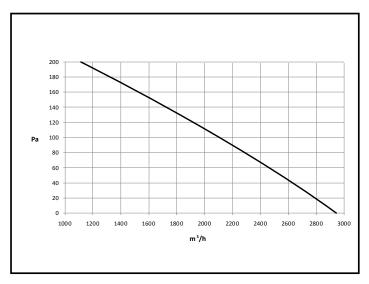
It is advisable to seal the joint between the duct and the fan cabinet with a silicone bead along the entire perimeter to finish ensuring the seal between them.



1.4 Fan flow rate / pressure curves

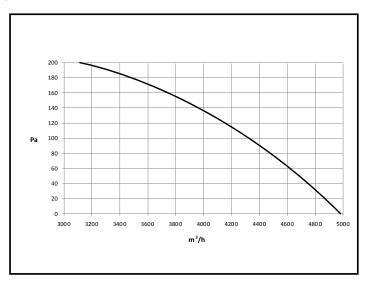
Models 017 / 022

Motor rated power: 0,45 kW



Models 032 / 040

Motor rated power: 0,96 kW

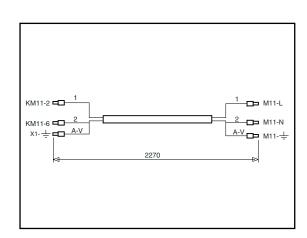


1.5 Electrical connection

Make the electrical connections according to the diagram.

KM11: Box side.

M11: Motor side.

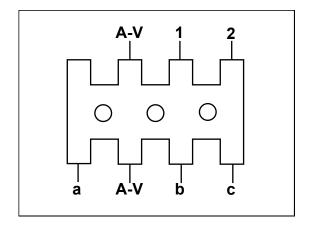




1.5 Electrical connection

Single-phase electrical connection

- a Yellow / White
- b Black
- c White / Blue



Close-up of connections in the electrical box

A: A1 to X2-7

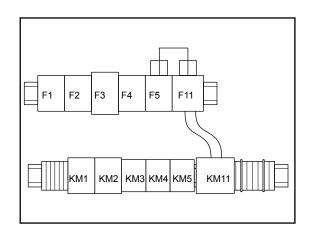
B: A2 to X2-B

Connect the exhaust fan cables to contactor KM-11, terminals 2 and 6.

Adjust motor trip switch F11:

Models 017/022: 2,5 A.

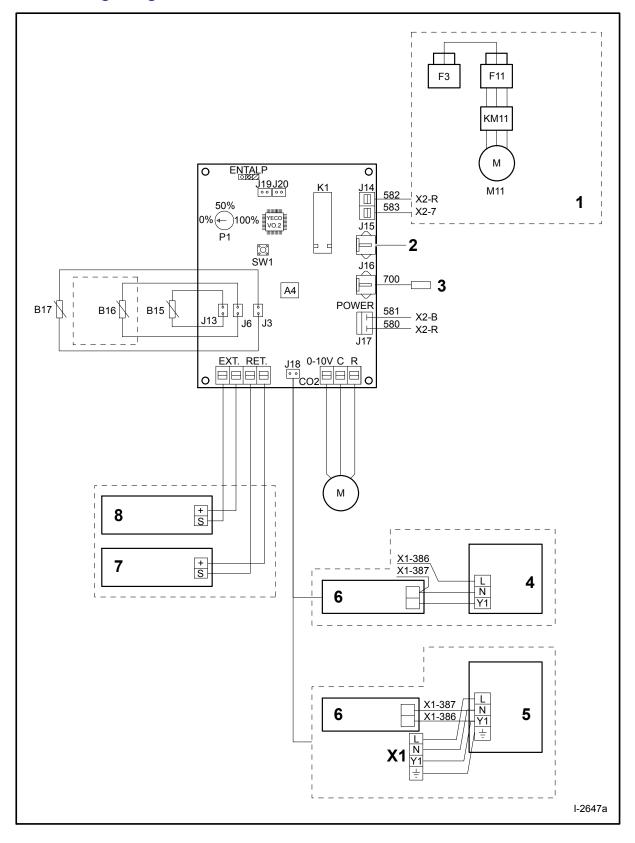
Models 032/040: 5,5 A.



Cable no.	Colour	Cross-section	From	То	Cable length
174	Blue	1,5	F11-6	KM11-5	210
173	Black	1,5	F11-2	KM11-1	210
172	Blue	1,5	F5-5	F11-5	260
171	Black	1,5	F5-3	F11-3	260
170	Black	1,5	F11-1	F11-4	1000
585	Red	1	X2-7	KM11-A1	1000
584	White	1	KM5-A2	KM11-A2	190



1.6 Wiring diagram





1.6 Wiring diagram

1.	F11	Optional Reg. 2,5 A (017, 022). Reg. 5,5 A (032, 040). Reg. 1,4 A (045, 060). Reg. 3A (0,75, 090). A1 to X2-7 (Cable 583)			
	KM11	A2 to X2-B			
	M11	Exhaust fan			
	X2-R	<u> </u>			
	X2-7	To A1 from KM11			
2.	Accesso				
3.	Accesso				
	Air quali	ity probe, optional, fitted on return (inside machine)			
4.	L	Black			
'.	N	Blue			
	Y1	Brown			
	Air quality probe, optional, fitted on ambient (machine exterior)				
	L	Black			
5.	N	Blue			
0.	Y1	Brown			
		Yellow-Green			
6.	Air quality board (green)				
	Enthalpy probe C7400A return, optional				
7.	+	Red			
	S	White			
	Enthalp	y probe C7400A outside, optional			
8.	+	Red			
	S	White			
B15	Return probe (black)				
B16	Supply probe, optional depending on model (yellow)				
B17	Outdoor probe (white)				
	Damper				
N/10	0-10 V	Grey			
M10	С	Black			
	R	Red			
X1	Cables to be installed on site (not supplied)				

Data and measurements subject to changes without prior notice.

