idealair group

ONEAIR

METAL

High induction round duct system

Installation Instructions

DHI

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GENERAL INFORMATIONS

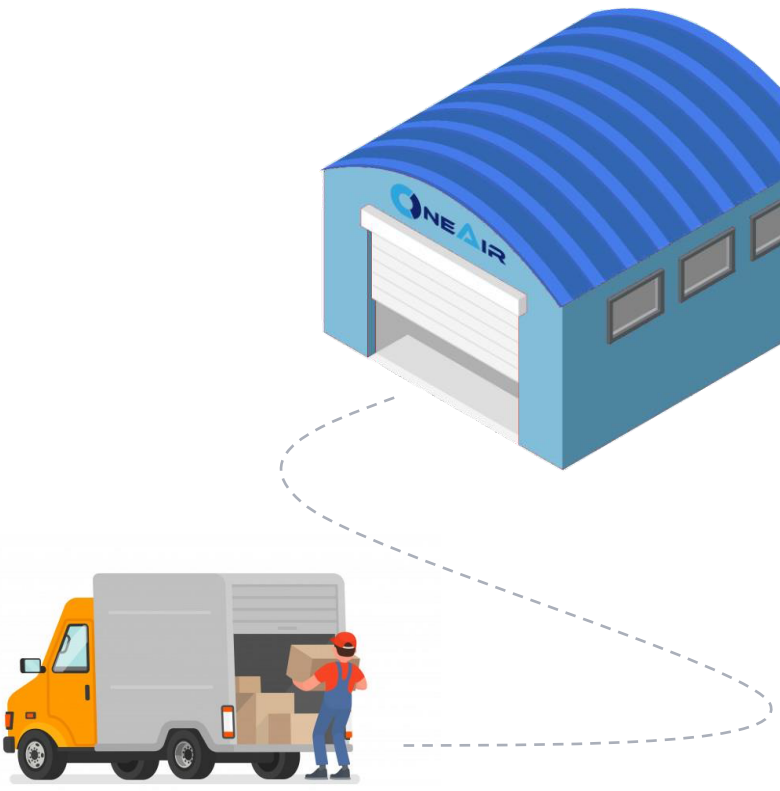
On the following pages you will find assembly and installation Instructions for the **ONEAIR DHI METAL ROUND** diffusing ducts.

DELIVERY AND RECEPTION

Before proceeding with the installation, the customer is requested to check the status of the goods received and the entire correspondence with the delivery order.

We ask you to indicate the presence of possible damaged pieces at the time of receipt of the goods and, if necessary, to indicate in the delivery note of the carrier the acceptance under reserve, noting exactly the type of damage found.

Furthermore, please contact us as soon as possible at *amministrazione@oneair.it* and, if possible, send us photos of the damaged parts



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COMPOSITION OF PALLETS

The metal round diffusers are supplied with a packaging system that reduces the volume required for shipping.

The modules, in different numbers in relation to the diameter and size of the pallet, are delivered one inside the other. Mounting accessories are supplied in a separate box.

Grouped pieces

Duct packaging

Accessories position

Accessories position

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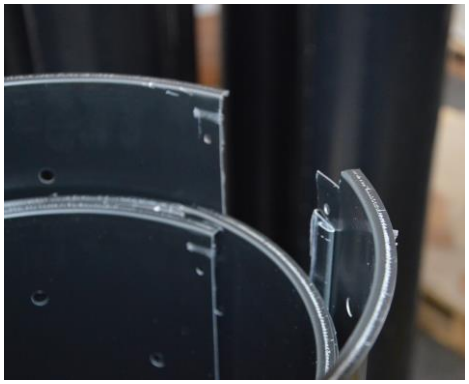
DUCT EXTRACTION FROM THE PALLETS

To correctly extract the ducts from the pallets, carefully follow the steps described below

1. The ducts are supplied one inside the other, embrace a set of ducts and with your hands slightly widen the circumference of the outermost one

2. Slide the duct upwards gently trying not to touch the next duct to be removed

3. Proceed in this way with all duct present



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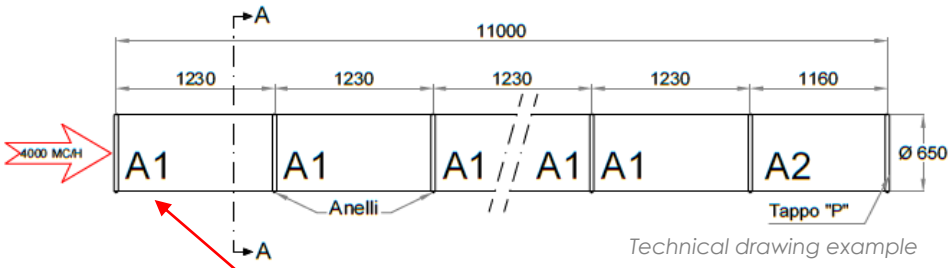
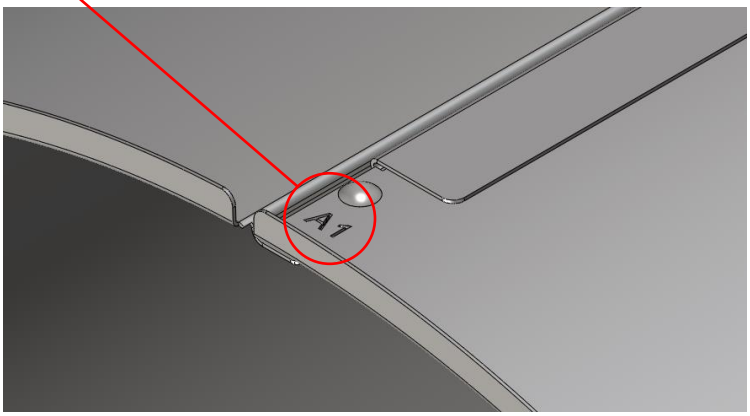
IDENTIFICATION OF SECTIONS

To identify the sections, refer to the technical drawings which are part of the documentation shipped with the material.

On each module is provided, mechanically stamped (on the outside) or handwritten (on the inside), the letter and number corresponding to the sections indicated in the technical drawing, approved before the production of the ducts.



Technical drawing example



Code position on the duct

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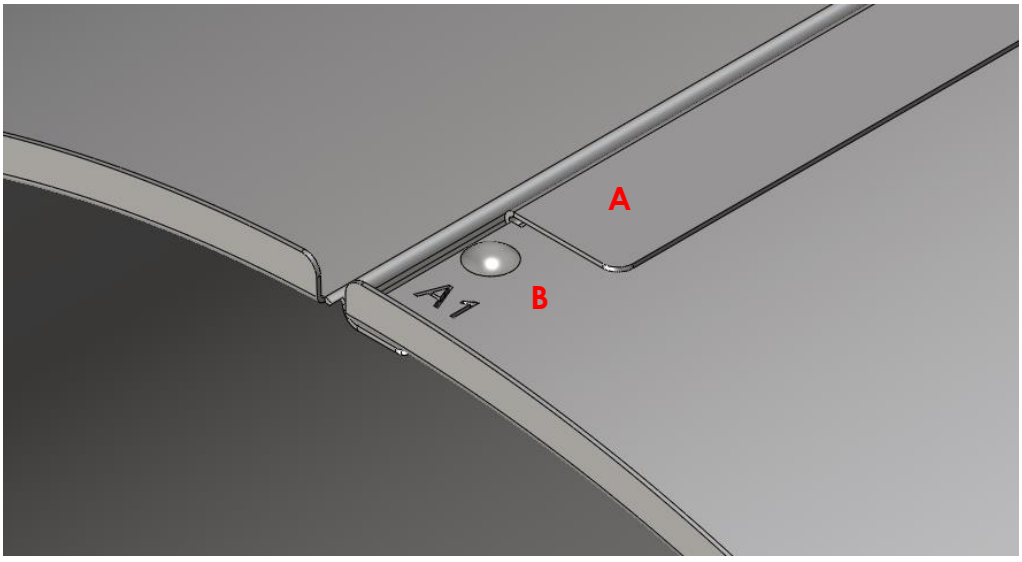
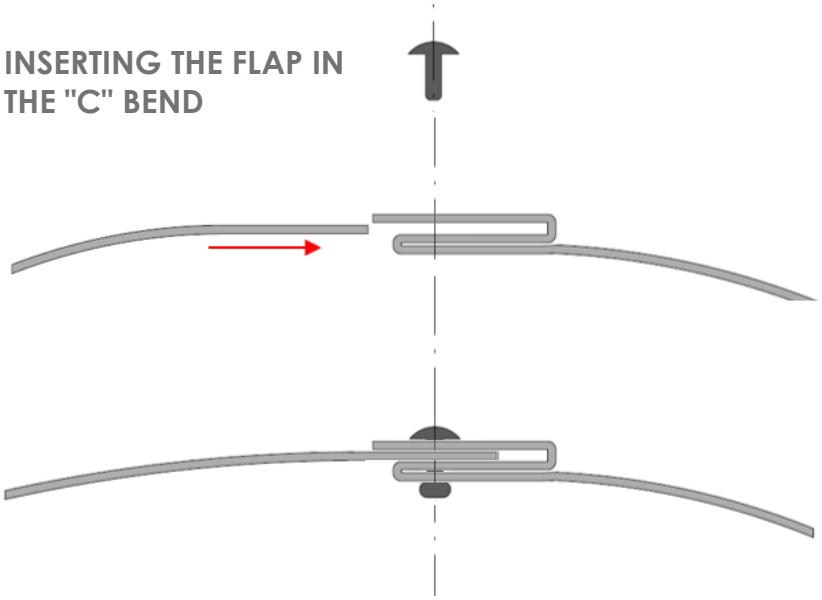
1. ASSEMBLY INSTRUCTIONS

1.1 MODULE ASSEMBLY

The modules that make up the ducts are delivered calendered with the circumference open and must therefore be closed by screws/rivets (not supplied).

The closing system is simple: insert the flat flap inside the "C" reinforcement fold (**A**) placed on the opposite flap, fixing everything with the insertion of screws (Ø4,8) and rivets (Ø4) (**B**) in the two/three holes positioned at the ends in the form and, when required, also in the center.





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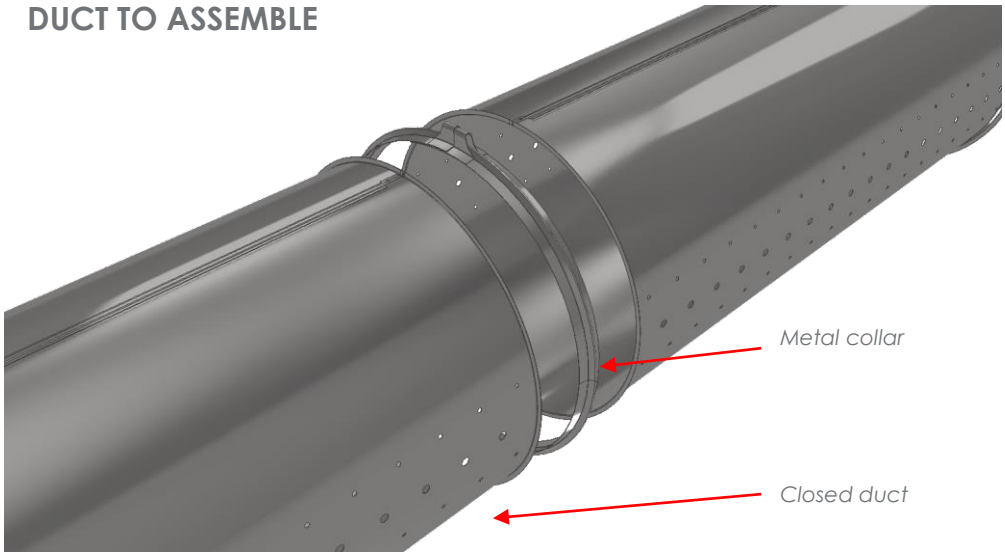
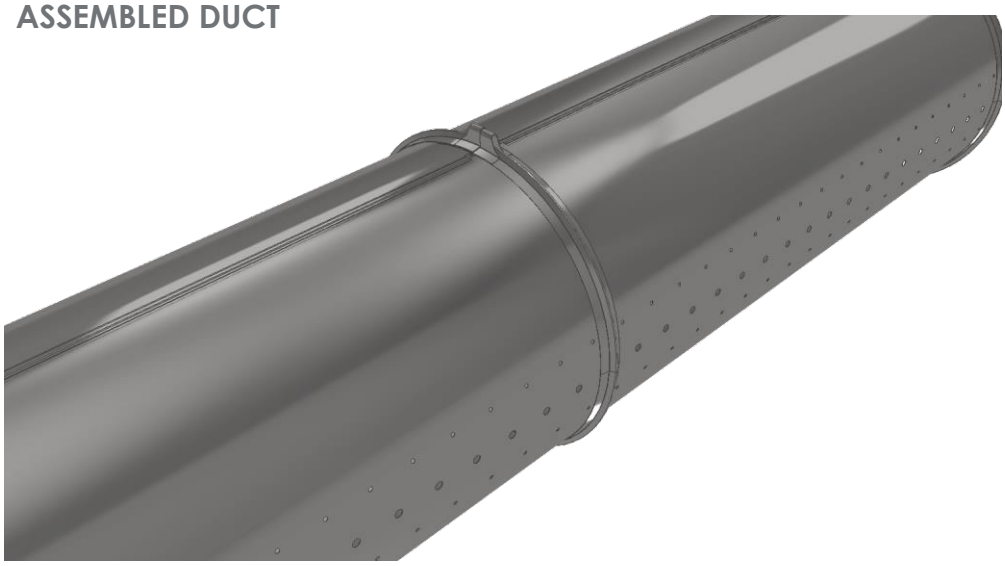
1.2 DIFFUSER ASSEMBLY

Once the modules have been assembled, it is possible to move on to the assembly phase of the diffuser by joining together the necessary number of pieces, as per the technical drawing, by using the metal collars included in the shipment.

DUCT TO ASSEMBLE



ASSEMBLED DUCT



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2. FIXING SYSTEMS

For a functional installation, prepare 1 fixing point for each module starting from a diameter of 600 mm, below this diameter it is possible to put 1 fixing point for every two modules For safety, we also deem it necessary to provide an additional fixing with a metal cable (point 2.2) one every two modules. For all systems, **threaded rods and metal cables are excluded from the supply.**

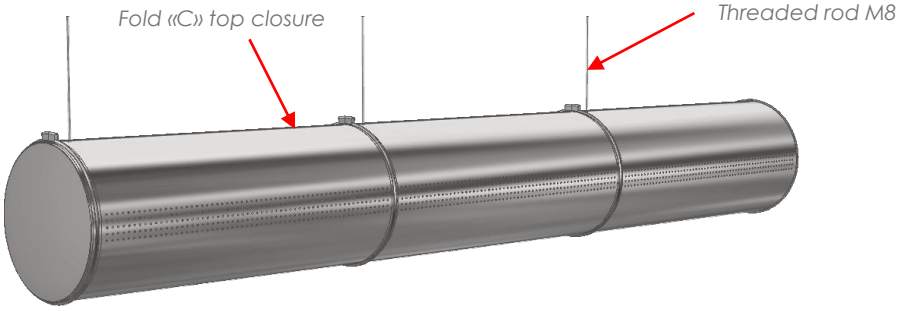
2.1 INSTALLATION WITH FIXING ON THE MODULE

It is possible to suspend the duct through threaded rods

1. Drill the module in any point of the " fold of the top closure in order to pass an M 8 threaded bar

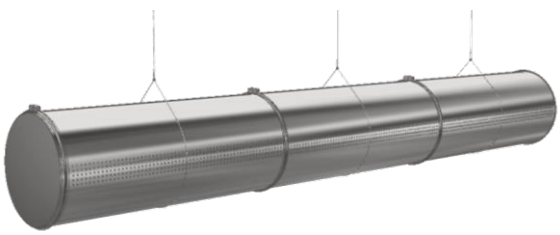
2. Secure the threaded rod inside the duct with washer and self locking nut (or with lock nut)

This system is useful when it is necessary to fix the channel with a pitch or position of the hooks different from the position of the collars.



2.2 INSTALLATION WITH METALLIC CABLE

This system involves the use of a Gripple type metal cable, suitable according to the instructions provided by the structural engineer assigned to the construction site.



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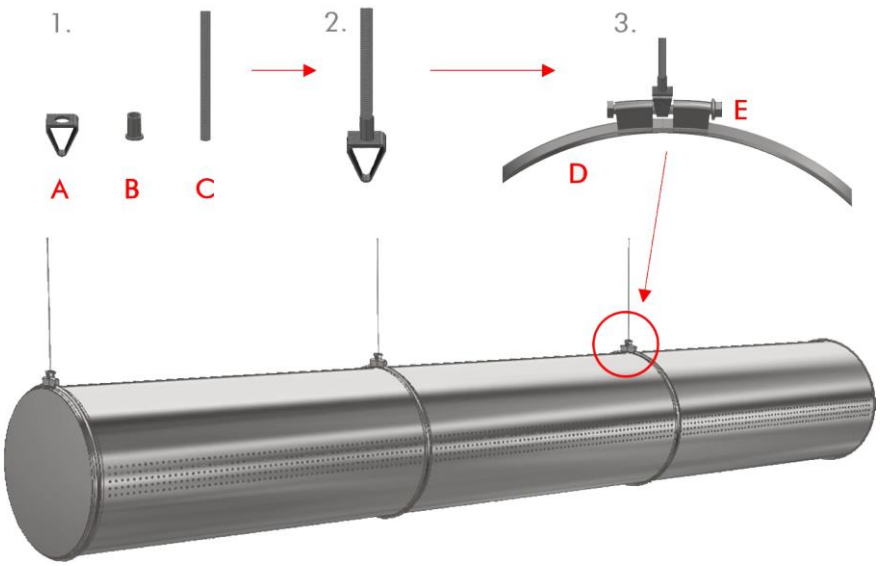
2.3 INSTALLATION WITH FIXING ON THE COLLAR

This system requires the use of a specific fixing kit sold separately and on request to be combined with the collar to allow the diffuser to be fixed to the ceiling by means of a threaded bar.

ATTENTION: For diameters greater than or equal to 600 mm there is a fixing kit per module while for smaller diameters one every two modules is considered.

1. Fixing kit components + threaded rod
2. Assembly of the fixing kit + threaded rod
3. Assembly of the assembled kit on the module junction collar

Insert the M8 insert (**B**) into the hole of the triangular section support (**A**) and screw the threaded rod (**C**). Connect the kit obtained to the collar (**D**) by inserting it into the tightening bolt (**E**).



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idealair group

Sydney Corporate Park

85 O'Riordan Street
Alexandria NSW 2015
+61 (02) 8073 3310
(02) 8073 3320

1C, 29-41 Lysaght Street
Acacia Ridge QLD 4110
+61 (07) 3063 0300
(07) 3063 0309

Fyshwick ACT
53 Tennant Street,
Fyshwick, ACT, 2609
T > *+61 (02) 6280 5511*
Fax > *(02) 6280 6953*

Dandenong South VIC
63 Vision Street,
Dandenong South, VIC 3175
T > *+61 (03) 9696 3044*
Fax > *(03) 9696 0188*

E > *info@idealairgroup.com.au*
W > *idealairgroup.com.au*

Hobart TAS
2/10 Lampton Avenue
Derwent Park, TAS, 7009
T > *+61 (03) 6273 6455*
Fax > *(03) 6273 5924*

E > *info@majorair.com.au*
W > *idealairgroup.com.au*

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