idealair
group

ONEAIR

TEXTILE

High induction round duct system

Installation Instructions

DHI

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GENERAL INFORMATIONS

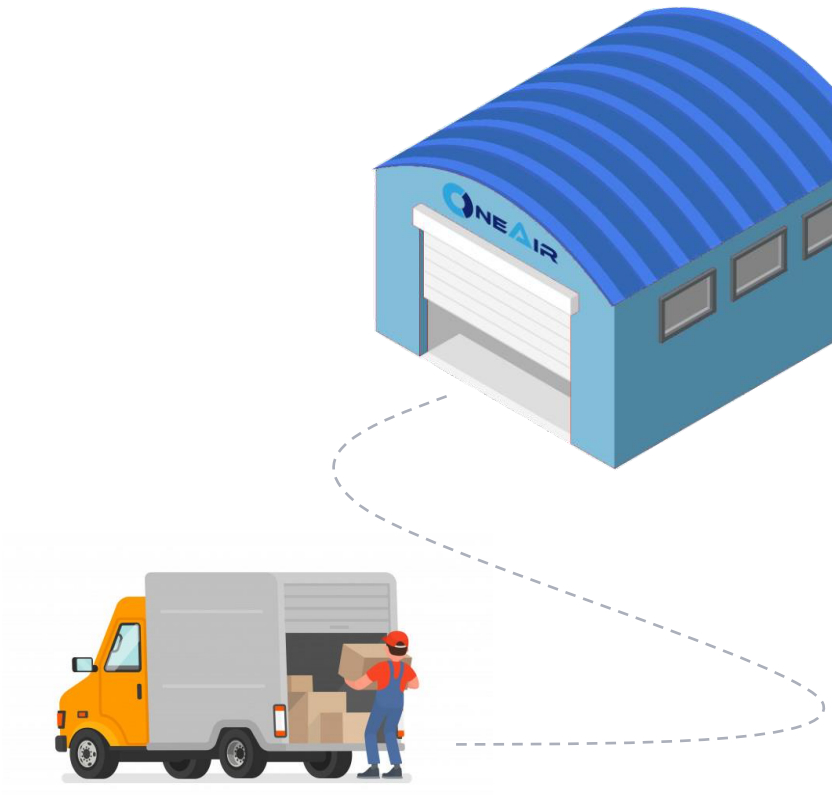
On the following pages you will find assembly and installation instructions for the **ONEAIR DHI TEXTILE ROUND** diffusers.

DELIVERY AND RECEPTION

Before proceeding with the installation, the customer is invited to check the condition of the goods received and all correspondence with the delivery note.

We ask you to indicate the presence of any damaged parts at the time of receipt of the goods and, if applicable, to indicate in the carrier's delivery note the acceptance subject to reservation, specifying exactly the type of damage found.

In addition, 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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WASHING AND MAINTENANCE INSTRUCTIONS

For standard or B s1 d0 class fabric duct:

- Use neutral powder or liquid detergent
- The water temperature must not exceed 30° C and the washing machine load must be moderate; although the fabric resists higher temperatures, excessive heat combined with the mechanical action of the washing machine could ruin the internal resin finish.
- Dry at room temperature by hanging the textile diffusers wet or at most after a light spin in the spin cycle not exceeding 500 rpm

For A1 class fabric duct :

- This type of fabric is very delicate and it is recommended to be treated by expert operators to avoid breakage or rapid wear of the material. During the assembly phase of the duct there may be some fiberglass filaments due to the processing. These can cause irritation to the eyes or skin, therefore we recommend the use of protective systems.
- Washing must be done by hand with neutral soap by immersing the product in large tanks that allow the channel not to undergo too many creases/wrinkles.

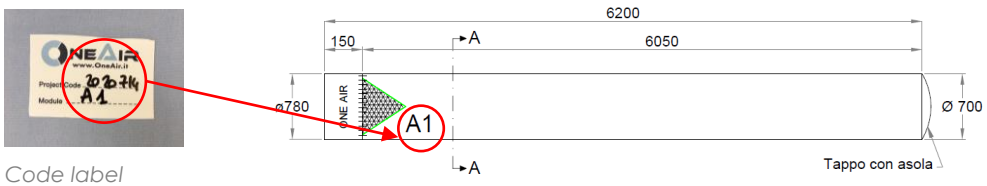
For all types of fabric:

After washing the duct can be used by completing the drying with the operation otherwise dry them thoroughly before storing them in a dry environment.

Upon request, we provide a washing service for textile ducts.

IDENTIFICATION OF THE SECTIONS

On each duct there is a label showing nomenclature and order number. For their identification, refer to the technical plans approved with the order confirmation, a copy of which is sent with the purchased material.



Code label

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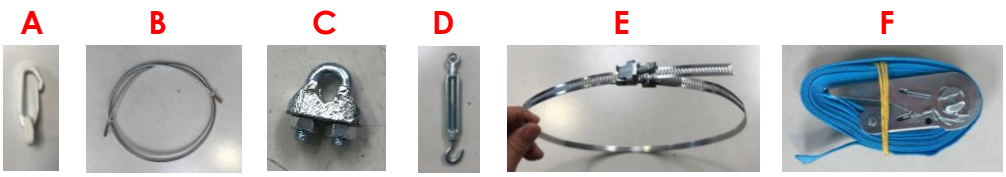
ASSEMBLY SYSTEMS

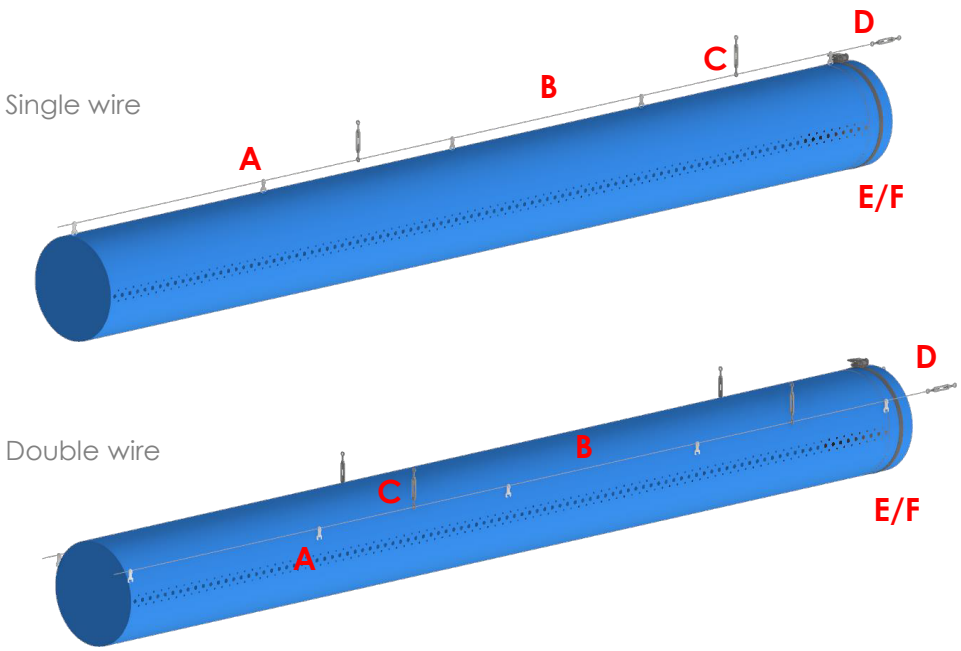
1. INSTALLATION BY WIRE

These installation systems include a kit consisting of:

- Hooks with carabiner (**A**) sewn on the duct
- Metal wire (**B**) of suitable length
- Clamps (**C**) for fixing the wire to turnbuckles and anchors
- Turnbuckles (**D**) to adjust the tension of the metal wire
- Metal (**E**) or fabric (**F**) hose clamp according to the diameter complete with ratchet for tightening the duct entrance on the rigid mouthpiece prepared on site.

ATTENTION: pressure caps and hooks for fixing to the wall are not supplied.





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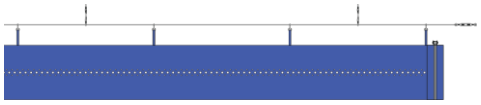
1.1 INSTALLATION PROCEDURE

1. Fix a hook to a wall using pressure caps or sturdy ceiling brackets (not supplied) then follow the sections indicated on the executive drawings to know the position of wire or rails
2. Mount the metal cable by applying the clamps and turnbuckles included in the supply to the ends
3. Tighten the cables well by screwing the tensioners
4. Hook the clips to the cables
5. Repeat point 4) until all the ducting is completely installed, joining the various sections of duct with the hinges at the ends
6. Fit the fabric channel on the metal mouthpiece and secure it using the hose clamp included in the supply
7. Extend the duct to its full length and slowly start the fan
8. If necessary, for channels with long sections, anchor the cable to the ceiling with intermediate hangings every 5 m approximately, making sure that these do not create an obstacle to the positioning of the carabiners and leaving the channel free to move.

RIGHT



WRONG

1.2 INSTALLATION RECOMMENDATIONS

Some advices for the proper functioning of the fabric ducts:

- Provide for the gradual start-up of the fan (for example with slow opening damper or inverter) to prevent the ducts from swelling with a violent blow that could cause tearing
- Provide flow straightening fins in the outlets that feed the fabric ducts to reduce air turbulence at the entrance
- Shape the mouthpieces on which the fabric ducts are fitted so that they cannot come off
- Smooth the edges of these mouthpieces to prevent the fabric from wearing and cutting

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2. INSTALLATION BY CEILING RAIL

These installation systems include a kit consisting of:

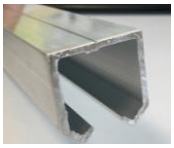
- Hooks with slide (**A**) or with rib (**B**) sewn on the duct
- Aluminum rail (**C**)
- Metal (**D**) or fabric (**E**) hose clamp according to the diameter complete with ratchet for tightening the duct entrance on the rigid mouthpiece prepared on site

ATTENTION: pressure caps and fixing screws are not supplied.

A

B

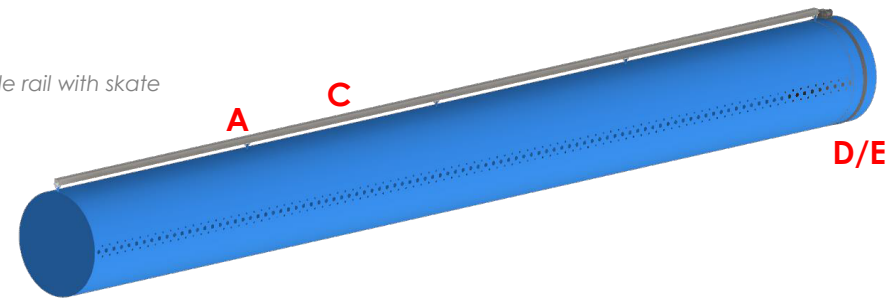
C



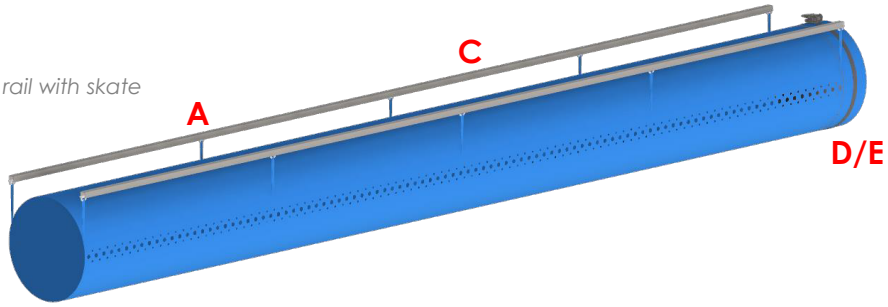
D

E

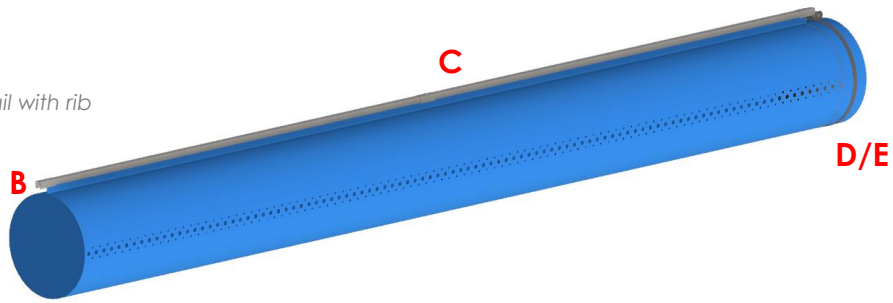
Single rail with skate



Double rail with skate



Single rail with rib



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2.1 INSTALLATION PROCEDURE

1. Fix the aluminum rails to the ceiling by drilling it and then inserting appropriate pressure caps (not supplied)
2. Insert the skate inside the lower slot of the aluminum rail
3. Repeat the previous steps for the installation of the entire ductwork and connect the various sections of the duct using the hinges
4. Fit the fabric duct on the rigid mouthpiece and secure it using the hose clamp included in the supply

2.2 INSTALLATION RECOMMENDATIONS

On completion of installation, also check:

- The integrity and stability of the wall supports and the correct fixing of the aluminum rail
- The tightness of the duct on the rigid inlet, in particular of having tightened the hose clamp well
- The correct tightening of all the hinges that join the various sections of the duct

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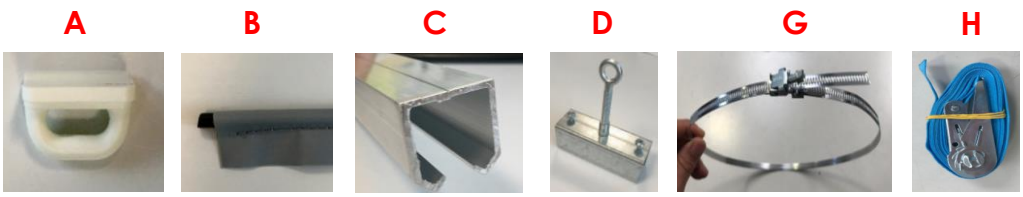
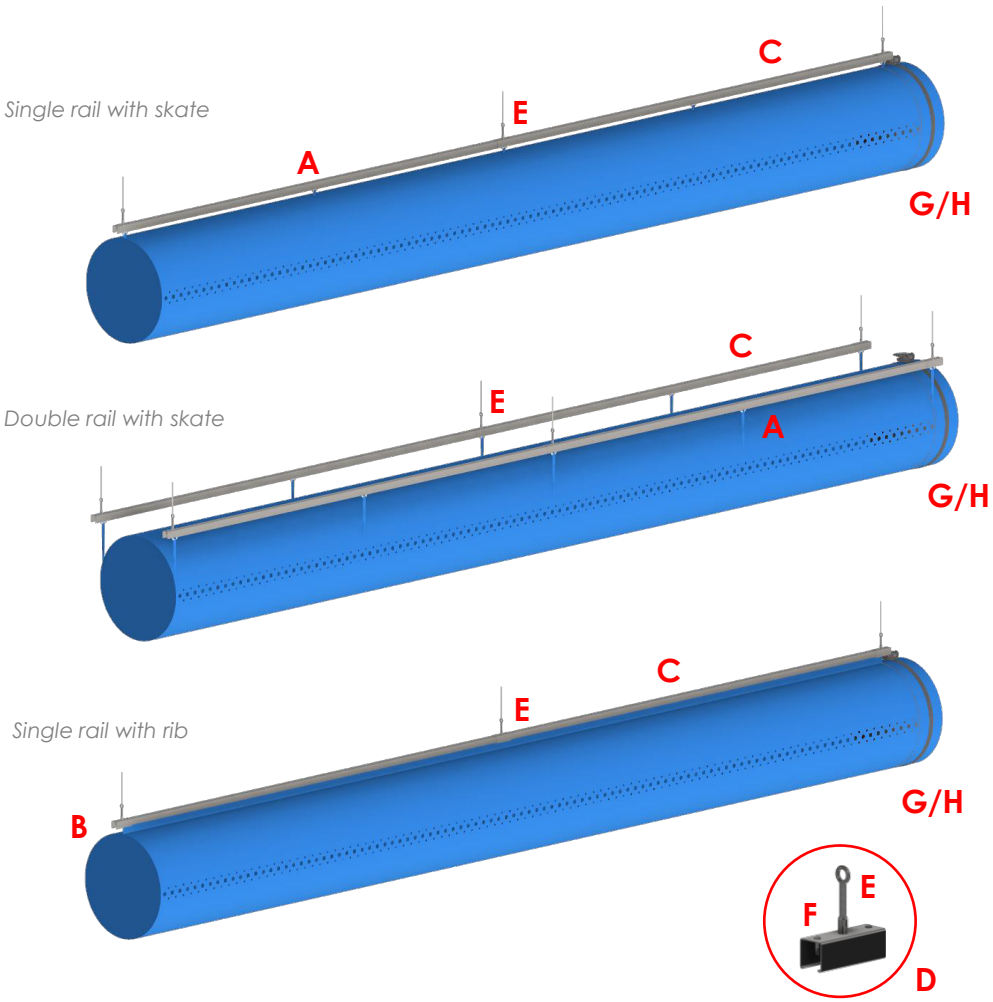
3. INSTALLATION BY SUSPENDED RAIL

These installation systems include a kit consisting of:

- Hooks with skate (**A**) or rib (**B**) sewn into the duct
- Aluminum rail (**C**)
- Connecting elements (**D**) and suspension for rail including eyelet M8 (**E**) and threaded insert M8 (**F**)
- Metal (**G**) or fabric (**H**) hose clamp according to the diameter complete with ratchet for tightening the duct inlet on the rigid mouthpiece prepared on site

ATTENTION: pressure caps and fixing screws are not supplied.





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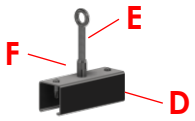
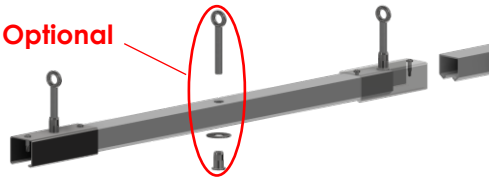
3.1 INSTALLATION PROCEDURE

1. Prepare fixing points to the ceiling by drilling the same and providing the subsequent insertion of appropriate pressure caps (not supplied)
2. Assemble the profile suspension kit as follows: insert the M8 threaded insert (**F**) into the joining element (**D**) and screw the eye screw (**E**).



3. Connect the kit obtained to the selected coupling system (metal cable or chain, not supplied) and position it at the end of the rail, making it protrude by its half to prepare the junction to the next rail. It is possible to create intermediate suspension points by drilling the rail with a Ø 11mm tip and directly inserting an M8 insert with washer and relative eye screw (accessories on request).



4. Hook the suspension kit to a fixing point on the ceiling using the system chosen in step 3 and adjusting the installation height of the rail as needed.
5. Connect the rails together until the line is completed using the suspension kits assembled at point (2), fixing them with M4.8x16mm self-drilling screws (not supplied).
6. Assemble the ducting, one sector at a time according to the sequence of the technical drawing, inserting the rib or the skates inside the lower slot of the aluminum rails. Fit the entrance of the first sector on the rigid mouthpiece of the ventilator, fixing it with the hose clamp included in the supply.
7. Repeat step 6 for the installation of all the ducts and connect the various sections of the duct using the hinges.
8. For the version with the runner, stretch the duct along its entire length and start the fan slowly.

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3.2 INSTALLATION RECOMMENDATIONS

On completion of installation, also check:

- The integrity and stability of the wall supports and the correct fixing of the suspension system to the aluminum rail
- The correct tension of the wire in place
- The tightness of the duct on the rigid entrance. In particular, check that the hose clamp has been tightened well
- The correct tightening of all the hinges that join the various sections of the duct

4. TIPS FOR USE

Some simple measures to increase the efficiency of the implant and the duration of the tissue ducts:

- Provide for the gradual start-up of the fan (for example with slow opening damper or inverter) to avoid the "water hammer" effect during the inflation phase which could cause tearing or premature wear.
- Provide flow straightening fins in the outlets that feed the fabric ducts to reduce air turbulence at the entrance
- Shape the mouthpieces on which the fabric ducts are fitted so that they cannot come off
- Smooth the edges of these mouthpieces to prevent the fabric from wearing and cutting

For the installation of the double wire or the double rail, refer to the detailed measurements of the technical drawing supplied together with the order confirmation.

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