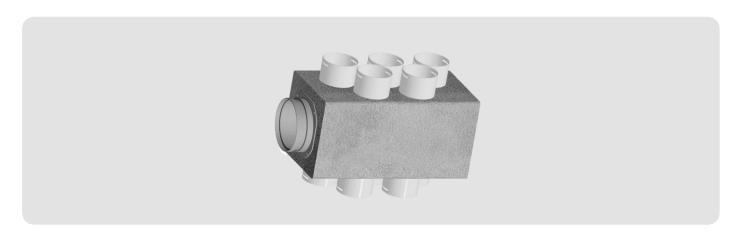




"Smart Small" distribution box made of sheet metal - PVC

"SMART SMALL" DISTRIBUTION BOX IN SHEET METAL - PVC series VMSMART



FEATURES

Box for distribution of fresh air to habitable rooms or extraction of exhausted air from humid rooms. The boxes have a main connection, with multiple diameters (Ø125 to Ø160 and Ø160 to 180) varying from model to model, to be connected to the unit ventilation via a rigid or flexible duct (possibly with the interposition of a silencer, not supplied).

They are equipped with connections to \emptyset 75 or \emptyset 90 round semi-rigid piping for distribution to the various rooms. On the face opposite the main connection they have provision for adding a PVC plate (see accessories below).

Materials of construction:

Galvanized steel plate 1 mm thick for the body of all boxes; (the C-shaped plate is anti-condensation PVC thick. 4 mm). Ø75 and Ø90 couplings are made with FITT Agix "GREY" collars PP threaded

The $\emptyset125/160$ or $\emptyset160/\emptyset180$ connection is made with a PP collar equipped with a double gasket and fixed with screws, $\emptyset125$ or 160 in diameter, respectively. Models with $\emptyset125/\emptyset160$ connection have an additional EPE ring included for possible diameter increase from $\emptyset125$ to $\emptyset160$, while models with $\emptyset160/180$ connection have a PE strip included to upgrade to $\emptyset180$ diameter.

Outer coating:

With 6 mm thick polyethylene foam insulation (the PVC C-plate is not coated).

Partial interior cladding (on 2 sides):

With 10 mm thick polyester fiber coated with film; it is fit for air ducts.

Fixing methods:

Fixable to the wall or ceiling. They are complete with no. 4 adjustable "L" brackets for fixing, including self-tapping screws for fixing them on the box.

Operating temperature:

-50 ÷ 60°C.

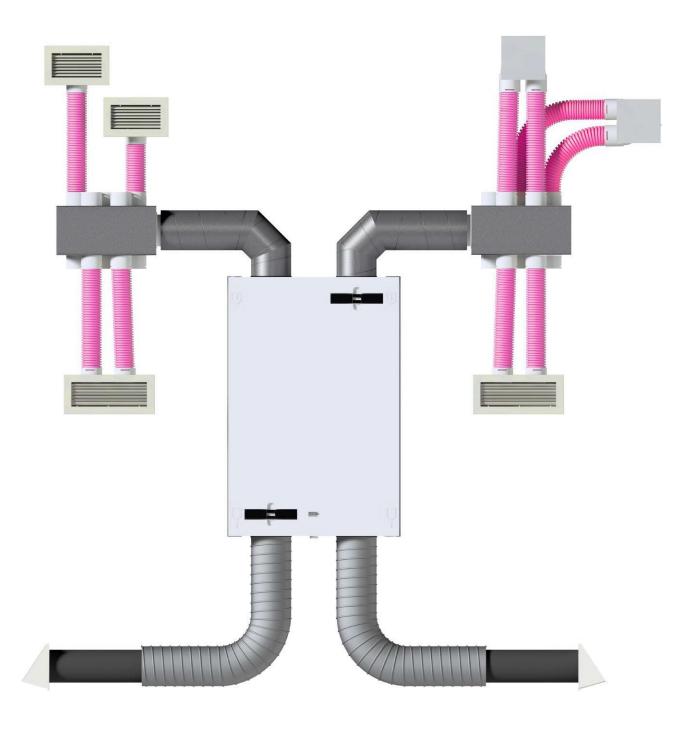
ACCESSORIES (optional)

- PVC plate with no.2 additional collars Ø75 "Grey" cod. VMSMPL275
- PVC plate with no.2 additional collars Ø90 "Grey" cod. VMSMPL290

For other accessories (especially of "GREY" collars and piping) see the relevant data sheets.

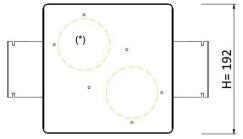
INSTALLATION EXAMPLE

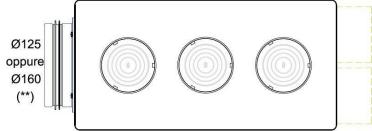
Example of installation of two SMART Small boxes for VMC (one for supply and one for extraction) associated with a Renovent Sky series heat recovery unit

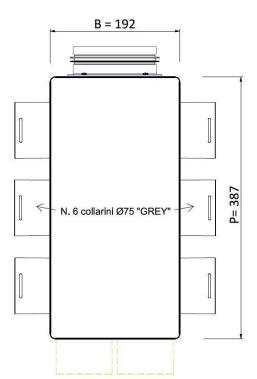


DIMENSIONS

Distribution box mod. smart Small with 6 distribution connections ø75 cod. VMSMART1216675 and cod. VMSMART1618675

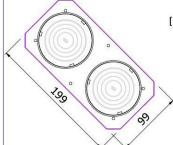






NOTE.

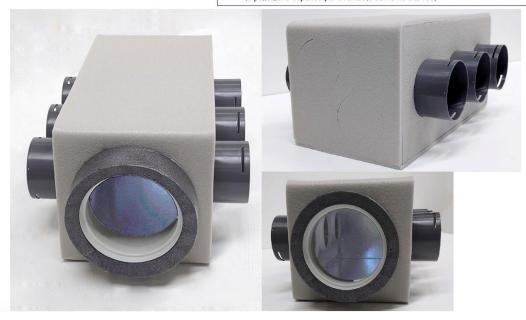
- -Le misure sono esterne e sono comprensive dello spessore del rivestimento in PE espanso adesivo di spessore 6 mm.
- (*) Predisposizione, sia su questa faccia che sulla faccia opposta, per installazione (eventuale) della placca in PVC a due collari aggiuntivi. La predisposizione è realizzata mediante pretranciatura/preforatura lamiera e segni di taglio nel rivestimento.



[placca cod. VMSMPL275]

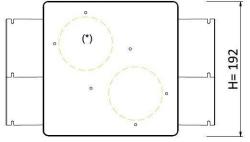
Placca in PVC sp.3, opzionale, con relative viti. I due collarini Ø75 sono avvitati sulla placca (e su piastra). I collarini vanno svitati dalla placca per potere ben fissare al box con viti, di cui 4 sotto la base del collarino.

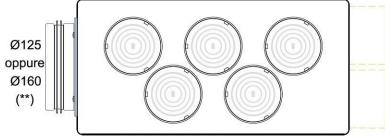
- (**) L'attacco per l'unita' di ventilazione è realizzato:
- per il box VMSMART1216675 con collare Ø125.
 Oltre al collare in PVC Ø125 viene fornito di serie un anello in EPE(Polietilene Esp. semirigido) per eventuale aumento a Ø160.
- per il box VMSMART1618675 con collare Ø160.
 Oltre al collare in PVC Ø160 viene fornita di serie una striscia in polietilene espanso per eventuale aumento a Ø180.

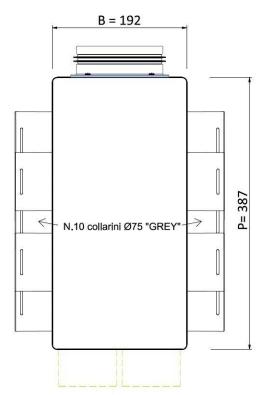


DIMENSIONS

Distribution box mod. smart Small to 10 distribution connections ø75 cod. VMSMART12161075 and cod. VMSMART16181075

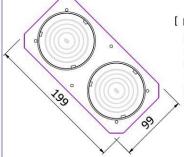






NOTE.

- -Le misure sono esterne e sono comprensive dello spessore del rivestimento in PE espanso adesivo di spessore 6 mm.
- (*) Predisposizione, sia su questa faccia che sulla faccia opposta, per installazione (eventuale) della placca in PVC a due collari aggiuntivi. La predisposizione è realizzata mediante pretranciatura/preforatura lamiera e segni di taglio nel rivestimento.



[placca cod. VMSMPL275]

Placca in PVC sp.3, opzionale, con relative viti. I due collarini Ø75 sono avvitati sulla placca (e su piastra). I collarini vanno svitati dalla placca per potere ben fissare al box con viti, di cui 4 sotto la base del collarino.

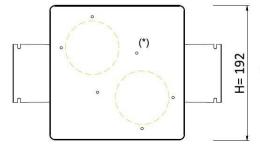
- (**) L'attacco per l'unita' di ventilazione è realizzato:
- per il box VMSMART12161075 con collare Ø125.
 Ottre al collare in PVC Ø125 viene fornito di serie un anello in EPE(Polietilene Esp. semirigido) per eventuale aumento a Ø160.
- per il box VMSMART16181075 con collare Ø160.
 Oltre al collare in PVC Ø160 viene fornita di serie una striscia in polietilene espanso per eventuale aumento a Ø180.

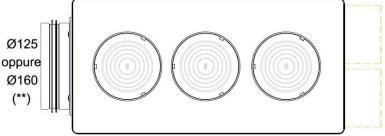


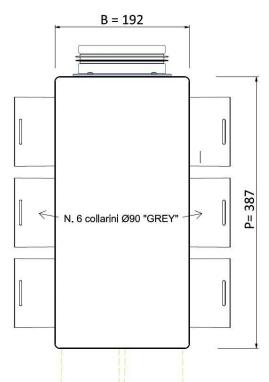


DIMENSIONS

Distribution box mod. smart Small with 6 distribution connections ø90 cod. VMSMART1216690 and cod. VMSMART1618690

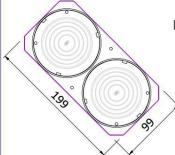






NOTE.

- -Le misure sono esterne e sono comprensive dello spessore del rivestimento in PE espanso adesivo di spessore 6 mm.
- (*) Predisposizione, sia su questa faccia che sulla faccia opposta, per installazione (eventuale) della placca in PVC a due collari aggiuntivi. La predisposizione è realizzata mediante pretranciatura/preforatura lamiera e segni di taglio nel rivestimento.



[placca cod. VMSMPL290]

Placca in PVC sp.3, opzionale, con relative viti. I due collarini Ø90 sono avvitati sulla placca (e su piastra). I collarini vanno svitati dalla placca per potere ben fissare al box con viti, di cui 4 sotto la base del collarino.

- (**) L'attacco per l'unita' di ventilazione è realizzato:
- per il box VMSMART1216690 con collare Ø125.
 Oltre al collare in PVC Ø125 viene fornito di serie un anello in EPE(Polietilene Esp. semirigido) per eventuale aumento a Ø160.
- per il box VMSMART1618690 con collare Ø160.
 Oltre al collare in PVC Ø160 viene fornita di serie una striscia In polletilene espanso per eventuale aumento a Ø180.



TABLES FOR QUICK CHOICE OF "Smart Small" BOXES

| Code | Diam. attack for unit side of ventilation* | No. collars for distribution OF SERIES | Ext. diameter of semi-rigid pipe | Type of collars for distribution** | Max flow rate of the box with SERIES collars (m³/h) *** | Max No. of additional collars on plate in PVC (optional) | Max flow rate with <u>additional</u> collars (m³/h) |
|-----------------|--|--|--|--|---|--|---|
| VMSMART1216675 | Ø125 / Ø160 | 6 | Ø 75 | Ø75 GREY | 204 | 2 | 272 |
| VMSMART1618675 | Ø160 / Ø180 | 6 | Ø 75 | Ø75 GREY | 204 | 2 | 272 |
| VMSMART12161075 | Ø125 / Ø160 | 10 | Ø 75 | Ø75 GREY | 340 | 2 | 408 |
| VMSMART16181075 | Ø160 / Ø180 | 10 | Ø 75 | Ø75 GREY | 340 | 2 | 408 |
| VMSMART1216690 | Ø125 / Ø160 | 6 | Ø 90 | Ø90 GREY | 288 | 2 | 384 |
| VMSMART1618690 | Ø160 / Ø180 | 6 | Ø 90 | Ø90 GREY | 288 | 2 | 384 |

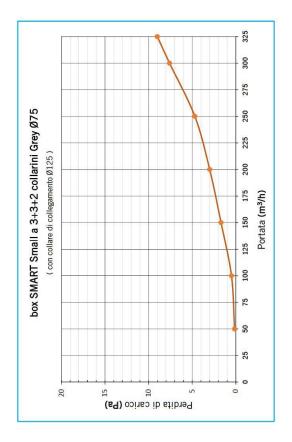
^{*} The connection is made with a PVC collar (with gasket) in the smaller of the two diameters.

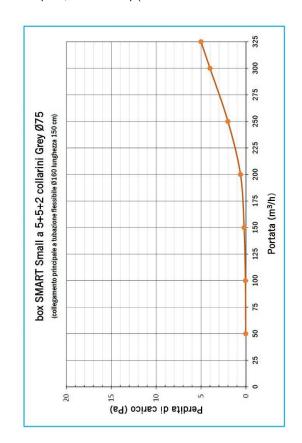
^{**} For GREY collars (Ø75 and Ø90), there is no need for any plug for unused attachments as these collars have an internal septum for total closure (to be removed in place). The inner septum is (always in place, easily) sectionable into sectors: the GREY collars also function as flow regulators. The additional collars (OPTIONAL) can possibly be Ø90 in diameter even if the remaining collars are Ø75, and vice-versa, as the PVC collar holder plate is unique for the two diameters.

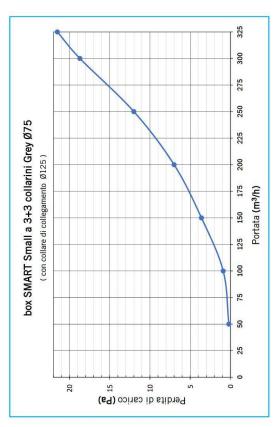
^{***} Flow rate calculated based on the air flow rate of each distribution pipe for a velocity (max) of 3 m/s in each pipe.

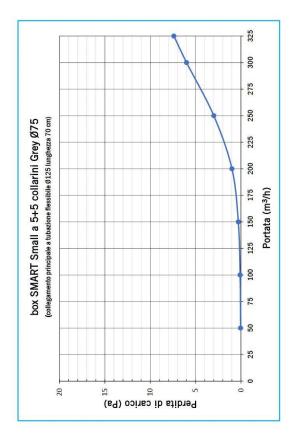
GRAPHI

Pressure drop graphs of SMART Small boxes mod. VMSMART12_675 and VMSMART12_1075 (the "+ 2 collars" graphs refer to boxes with the addition of VMSMPL275 plate; in the total Δp (the Ø125 flexible hose section is included)



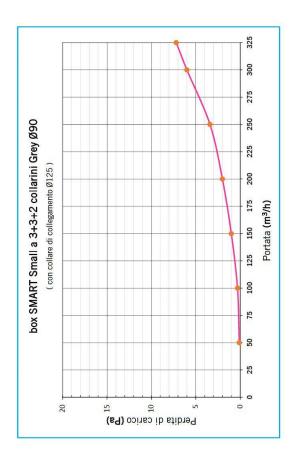


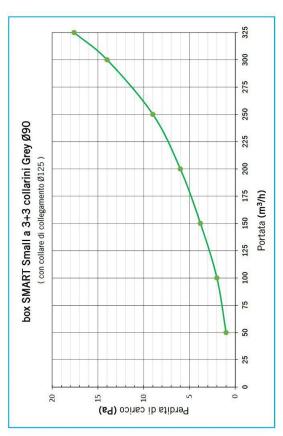




GRAPHI

Pressure drop graphs of SMART Small boxes mod. VMSMART12_690 (the "+ 2 collars" graphs refer to boxes with the addition of VMSMPL290 plate; in the total Δp (the Ø125 flexible hose section is included)





Pressure drop graphs of SMART Small boxes mod. VMSMART12_690 (the "+ 2 collars" graphs refer to boxes with the addition of VMSMPL290 plate; in the total Δp (the \emptyset 125 flexible hose section is included)

