

# "LINE-S" series "MONOBLOCK PLENUMS/DIFFUSERS"

PATENT  
PENDING

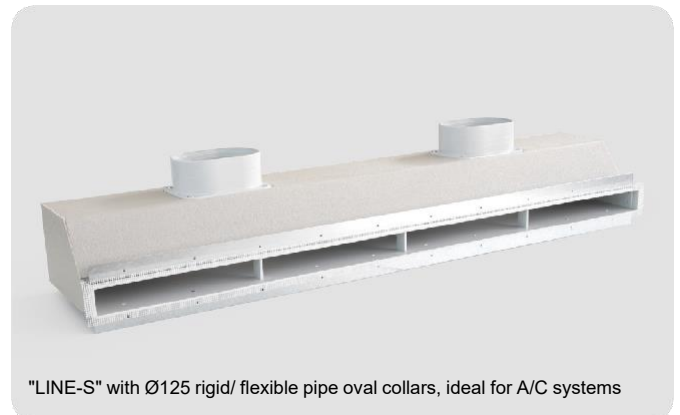
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## "LINE-S" series PVC "MONOBLOCK PLENUMS/ LINEAR DIFFUSERS"

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"LINE-S" with Ø75/Ø90 semi-rigid pipe GREY collars, ideal for HRV systems



"LINE-S" with Ø125 rigid/ flexible pipe oval collars, ideal for A/C systems

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### FEATURES

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Single-slot monoblock linear diffuser, having the plenum constituting a single body with the diffuser itself.  
It is **modular**: multiple plenums can be easily joined to form a multiple-length plenum/linear diffuser.

When ordering, it is necessary to specify whether "LINE-S" is to be installed **individually** or in **modules** to be joined together at the construction site. In the second case also specify the length and the number of lines to be made.

The collars (connections) are on one "long side". They can be of two types, depending on models:

- "Grey", that can be easily removed in construction site by unscrewing them, helping with a suitable bar.  
Ø75 / Ø90 threaded "Grey" collars can be added instead of threaded caps<sup>®\*\*</sup>, or threaded caps<sup>®</sup> can be exchanged for "Grey" collars.

- Ø125 "oval" PP type which can be exchanged, in construction site, with the plates screwed on the rear side (reversibility).  
This solution is particularly suitable for Air Conditioning systems, which generally use Ø125 piping instead of Ø75/90 piping.

*\*\*community registered design number 015060943*

#### Materials of construction:

- anti-condensation PVC thick. 3 mm;
- PP "Grey" collars and PP "threaded caps" or PP "OVAL" Ø125 collars.
- External insulation of closed-cell polyethylene foam thick. 3 mm.

#### Color:

- Color of PVC diffuser/plenum body: gray-light RAL7035; \*
- Color of external insulation: gray-light RAL7035;
- Color of threaded caps: fuchsia.

\* The internal faces of "LINE-S" are PAINTABLE on construction site.

#### Place of installation:

It is ideal for ceiling/ceiling installation, particularly on plasterboard. It can also be installed on walls, with special preference on drywall. Compatible plasterboard thicknesses for fixing, regardless of the model, are 12.5 and 15 mm.

**METHOD OF FIXING "LINE-S" ON THE PLASTERBOARD - (IF MODULAR) METHOD OF FIXING "LINE-S" TO EACH OTHER**

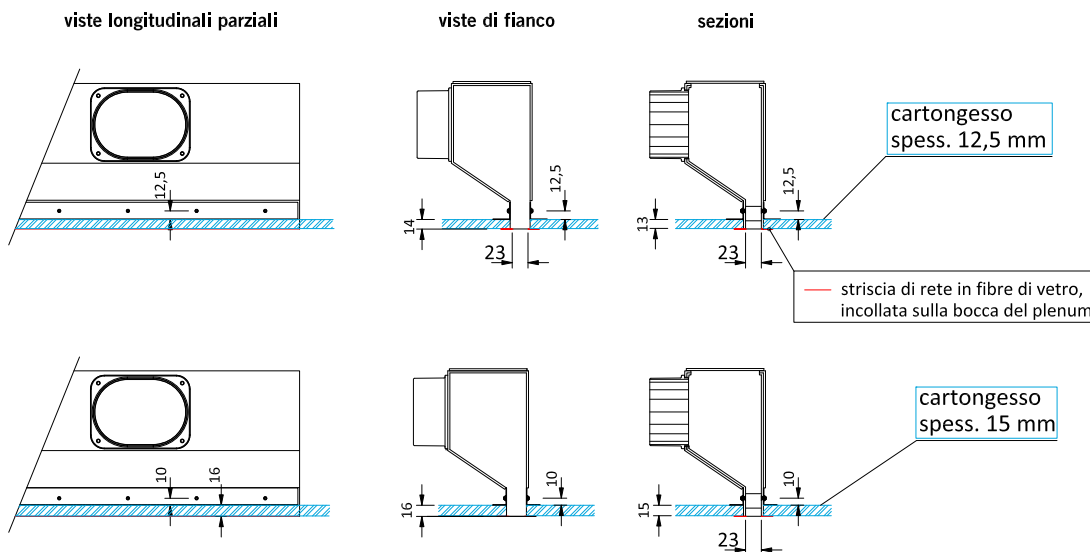
"LINE-S" is provided with No. 2 pre-drilled galvanized metal L-brackets, supplied with screws (to be inserted on the pre-drilled holes on the PVC) and the corresponding nuts.  
 In the case of modular installations (of multiple lengths) the L-brackets are to be laid "straddling" between the plenums side by side and, at the beginning and end of the line, angles with a length

of 495 mm provided for each line should be laid.

NOTE: Fixing the angle L-brackets on plenums is always recommended.

**EXAMPLE OF INSTALLATION ON 12.5 MM AND 15 MM THICK PLASTERBOARD**

In the case of installation with 12.5 mm thick plasterboard the perforated "A" face of the L-brackets is used, while with 15 mm thick plasterboard the perforated "B" face is used.

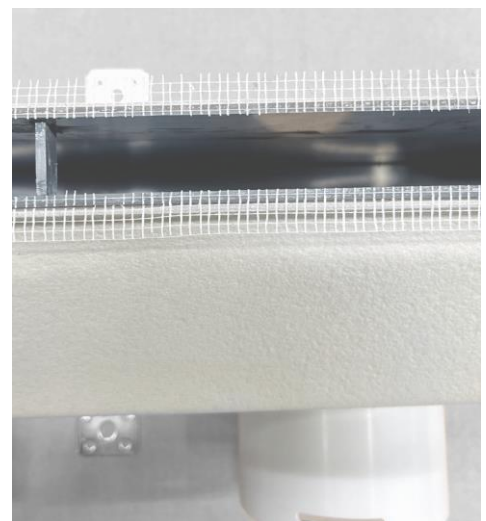


**PARTICULARS**

With the package comes a pair of adhesive insulating panels to be installed in place at the flanks (start and end) of the "LINE-S".

(Screws and plugs for drywall/masonry are excluded).

For grouting on plasterboard: for gripping the edges of the diffuser mouth on plasterboard by grouting, the plenums are provided with a thin plastic mesh glued to the edges of the mouth and protruding outward by 1 or 2 cm.



NOTE: The first photo refers to two LINE-S (one 1000mm-Ø125 and one 500mm-Ø75).

**PLENUM / LINEAR DIFFUSERS "LINE-S"**

Code	Dimensions internal mouth (mm)	"GREY" collars on the long side	Long side collars Ø125 oval (for A/C especially)	Total threaded plugs on rear (including 1 on one of the two small sides)	Flow rate (m³/h) with v= 1 m/s	Flow rate (m³/h) with v= 2 m/s	Flow rate (m³/h) with v= 3 m/s	Actual Length of plenum (excluding insulation thick.) x MOUTH height (mm)
VMDLINE5X75	494 x 23	2 x Ø75	-	3	40	80	120	500 x 23
VMDLINE5X90	494 x 23	2 x Ø90	-	3	40	80	120	500 x 23
VMDLINE1X75	994 x 23	4 x Ø75	-	5	83	166	249	1000 x 23
VMDLINE1X90	994 x 23	4 x Ø90	-	5	83	166	249	1000 x 23
VMDLINE235x1125	494 x 23	-	1	Reversibility	40	80	120	500 x 23
VMDLINE365x1125	494 x 36	-	1		62	124	186	500 x 36
VMDLINE231x2125	994 x 23	-	2		83	166	249	1000 x 23
VMDLINE361x2125	994 x 36	-	2		126	252	378	1000 x 36

v = 1, 2, 3 at the MOUTH

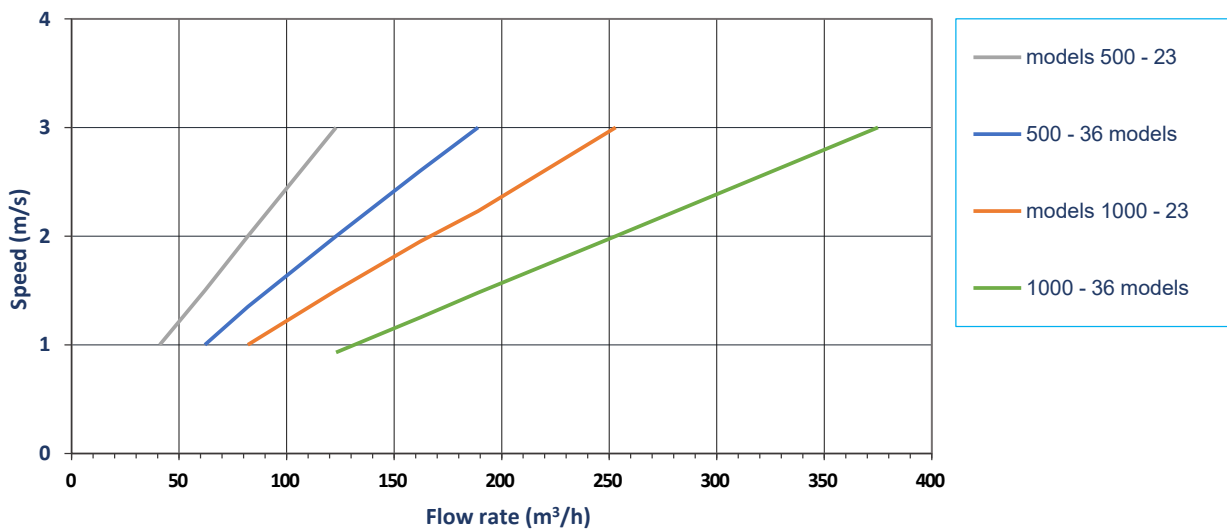
**ACCESSORIES**

Code	Description
VMDLINEK235	kit consisting of no. 2 fins for LINE-S having inner mouth dimensions 494x23 mm
VMDLINEK231	kit consisting of no. 4 fins for LINE-S having inner mouth dimensions 994x23 mm
VMDLINEK365	kit consisting of no. 4 fins (in a double row) for LINE-S with mouth interior 494x36
VMDLINEK361	kit consisting of no. 8 fins (in a double row) for LINE-S with mouth interior 994x36

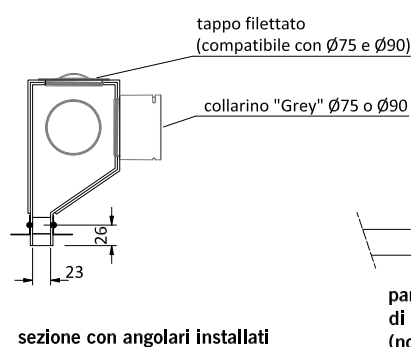
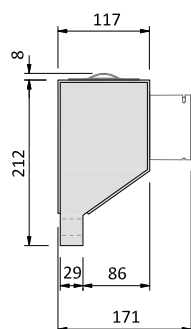
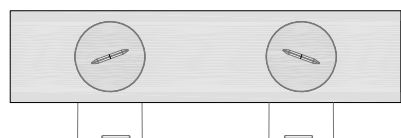
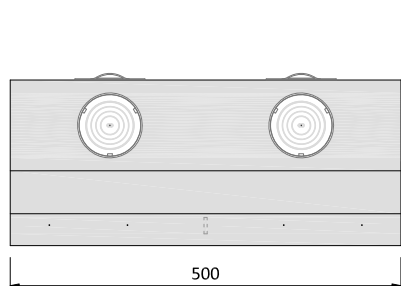
Specific optional accessories. Thin PP fins, which can be added (in production) to direct the airflow, including the relevant screws

**AIR FLOW RATE - SPEED GRAPH**

Crossing speed (m/s) for LINE-S diffusers at various supply/extract air flow rates



**DIMENSIONI | "LINE-S" 500, MOUTH 23, WITH 2 COLLARS Ø75/90 REVERSIBLE - CODES: VMDLINE5X(75/90)**



**NOTE**

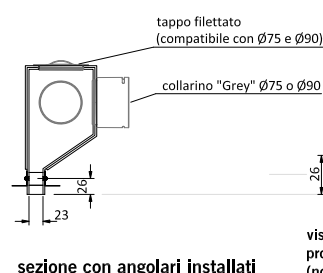
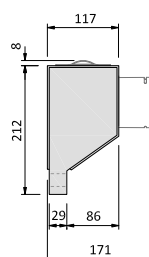
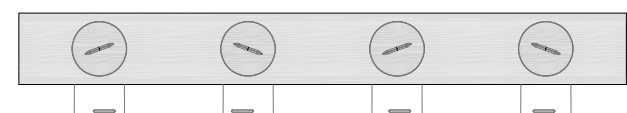
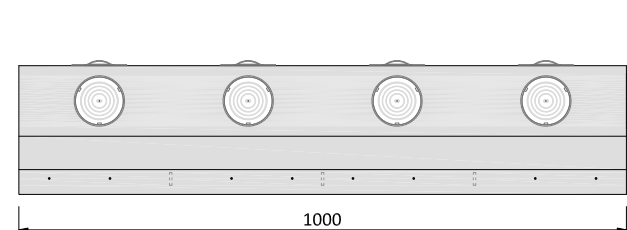
- Codici:  
 - con collarini GREY Ø75: VMDLINE5X75  
 - con collarini GREY Ø90: VMDLINE5X90

Corpo in PVC anticond. sp. 3 mm colore grigio chiaro RAL7035;  
 isolamento esterno in PE esp. spess. 3 mm colore RAL7035;  
 fianchi non isolati: viene inclusa una coppia di pannellini isolanti sagomati sciolti;  
 viene inclusa una coppia di profili angolari zincati preforati sp. 0,8 mm L=495 mm + viti/dadi.

- interno bocca 494 x 23 mm; - esterno bocca: 500 x 29 mm;
- spessore cartongesso compatibile usando la faccia A dell'angolare: 12-13 mm;
- spessore cartongesso compatibile usando la faccia B dell'angolare: 15 mm.

\* fianchi in PVC con segno pretranciato, per la rimozione supportino nel caso di installazione modulare

**DIMENSIONI | "LINE-S" 1000, MOUTH 23, WITH 4 COLLARS Ø75/90 REVERSIBLE - CODES: VMDLINE1X(75/90)**



**NOTE**

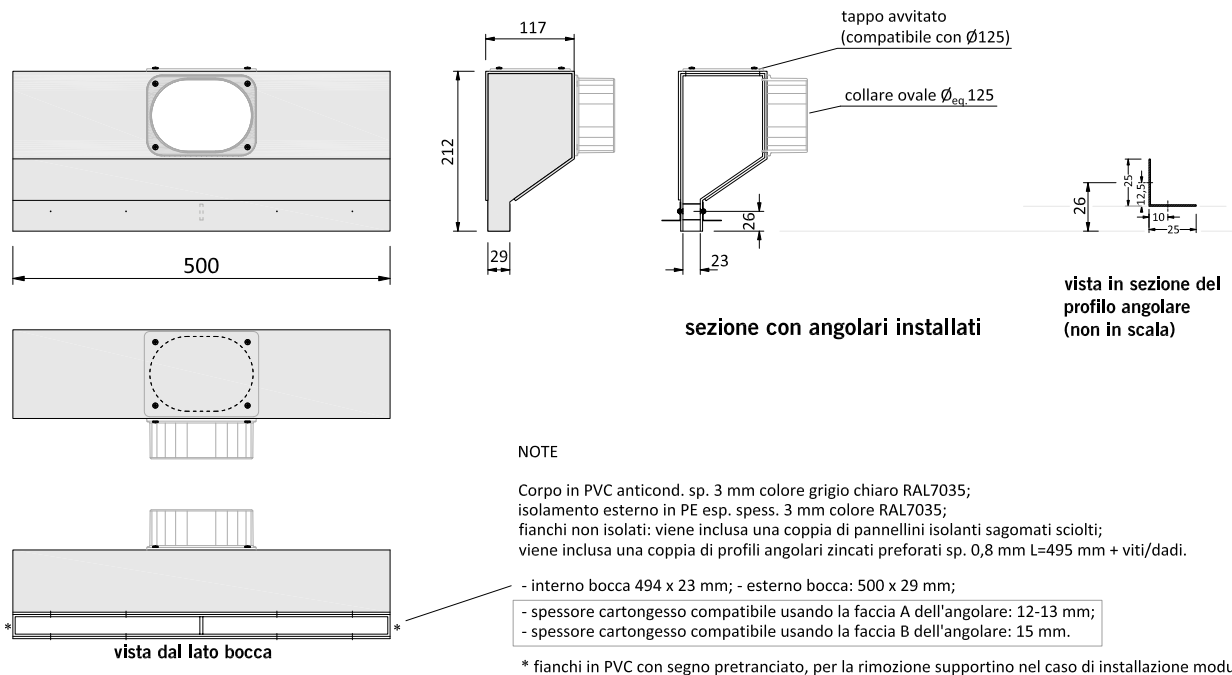
- Codici:  
 - con collarini GREY Ø75: VMDLINE1X75  
 - con collarini GREY Ø90: VMDLINE1X90

Corpo in PVC anticond. sp. 3 mm colore grigio chiaro RAL7035;  
 isolamento esterno in PE esp. spess. 3 mm colore RAL7035;  
 fianchi non isolati: viene inclusa una coppia di pannellini isolanti sagomati sciolti;  
 viene inclusa una coppia di profili angolari zincati preforati sp. 0,8 mm L=995 mm + viti/dadi.

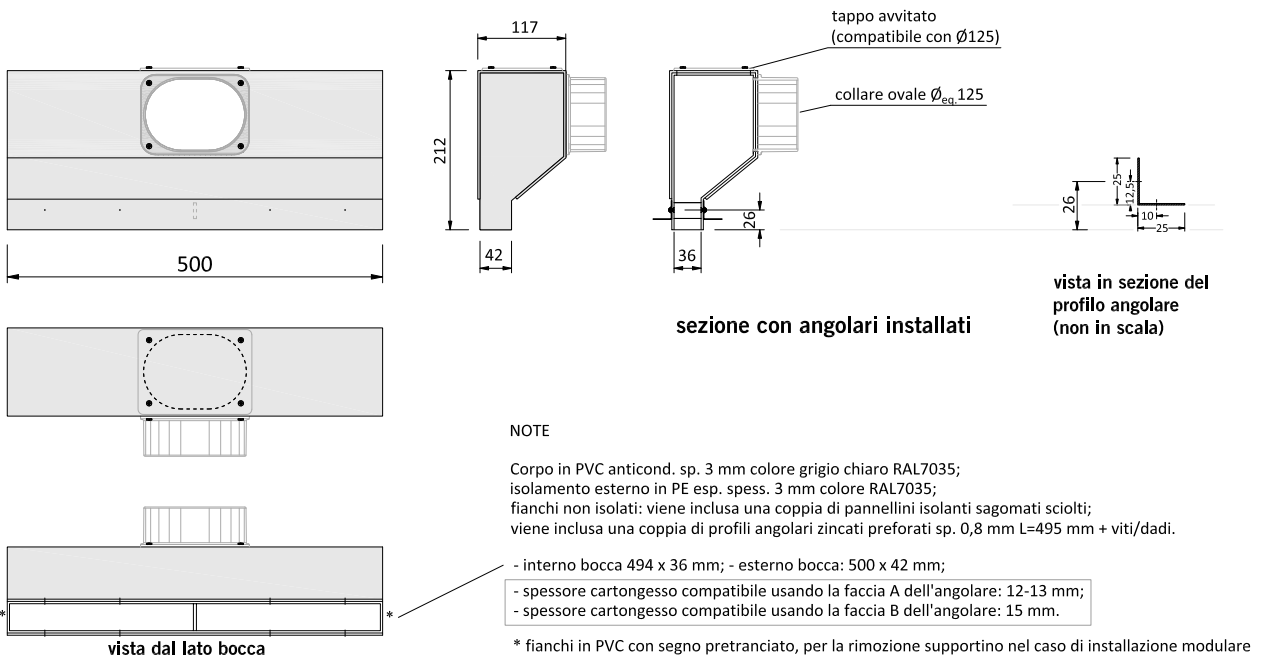
- interno bocca 994 x 23 mm; - esterno bocca: 1000 x 29 mm;
- spessore cartongesso compatibile usando la faccia A dell'angolare: 12-13 mm;
- spessore cartongesso compatibile usando la faccia B dell'angolare: 15 mm.

\* fianchi in PVC con segno pretranciato, per la rimozione supportino nel caso di installazione modulare

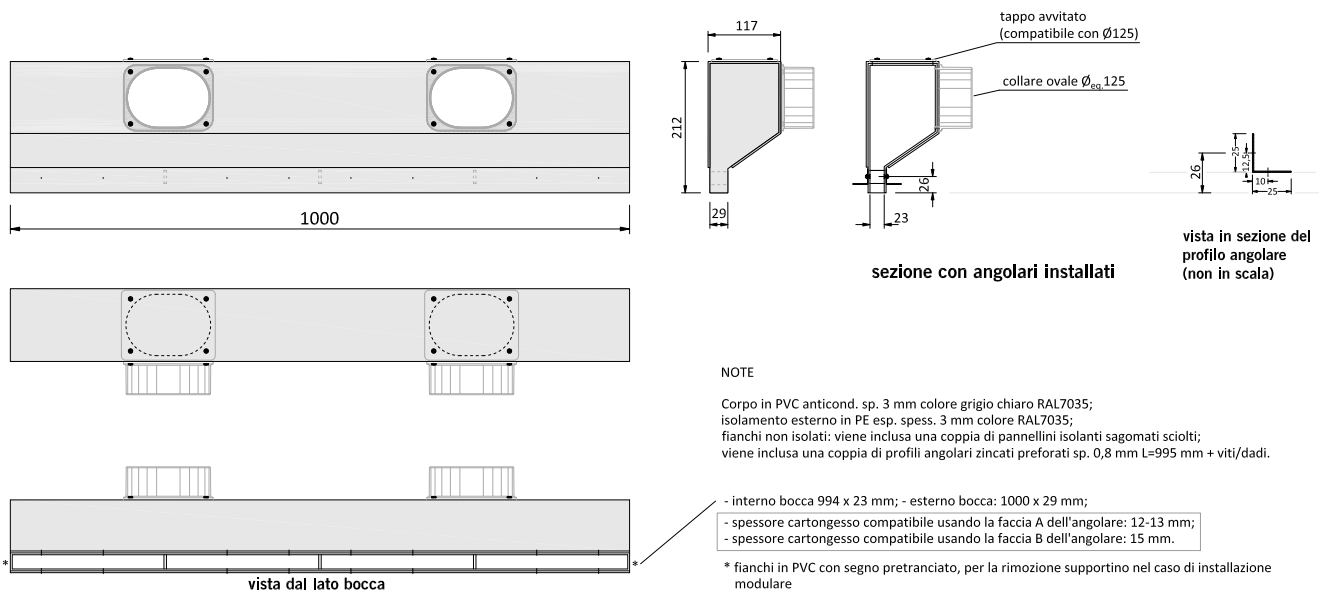
**DIMENSIONS | "LINE-S" 500, MOUTH 23, WITH 1 COLLAR Ø125 REVERSIBLE - CODE: VMDLINE235X1125**



**DIMENSIONS | "LINE-S" 500, MOUTH 36, WITH 1 COLLAR Ø125 REVERSIBLE - CODE: VMDLINE365X1125**



**DIMENSIONS | "LINE-S" 1000, MOUTH 23, WITH 2 COLLARS Ø125 REVERSIBLE - CODE: VMDLINE231X2125**



**DIMENSIONS | "LINE-S" 1000, MOUTH 36, WITH 2 COLLARS Ø125 REVERSIBLE - CODE: VMDLINE361X2125**

