2800-VFRM

This motorized inlet is unique in its control. Equipped with a motor this inlet does not have to be connected to a main cable but instead operates on its own. With a straight inner valve air is guided upwards as much as possible during minimum ventilation. This inlet, like the majority of our program, is made out of our unique polyurethane formula thus offering high insulation values.

The type of cable depends on the number of 2800-VFRM and the length of the cable in meters: The air inlets need to be connected using 2 x 2 leads:

- 2 leads to feed the 24 Volt DC motor
- 2 leads to feed the 0-10 volt control signal

We advise that a four lead cable is used. The thickness of the cable is determined by the 24 volt feed.

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2800-VFRM DATASHEET

CAPACITY

Model	m³/h @ 10 Pa	m³/h @ 20 Pa	m³/h @ 40 Pa
2800-VFRM	2900	4100	5800
	cfm @ 0.05 inH₂0	**cfm @ 0.1 inH₂0**	**cfm @ 0.15 inH₂0**
	1908	2693	3297

INFORMATION

Run	N/A
Force	N/A
Number / pallet (1,20 x 0,80 x 2,40m / 47 x 31,5 x 94,5inch)	20
Weight / per inlet	5,6 kg / 12.3 lbs
Volume / per box	10

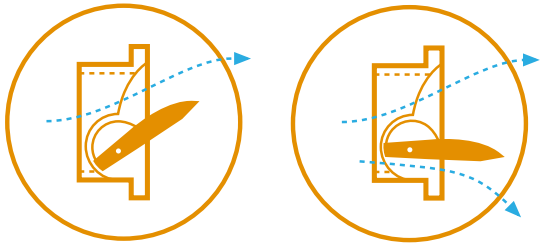
OPTIONAL ACCESSORIES

TPI-110	Wire mesh synthetic

INFORMATION

Copper resistance	0.0175 Ohm
Voltage	24 Vdc
Maximum tolerance	10%
Maximum voltage drop	2.4 Vdc
Electric current	0.21 A

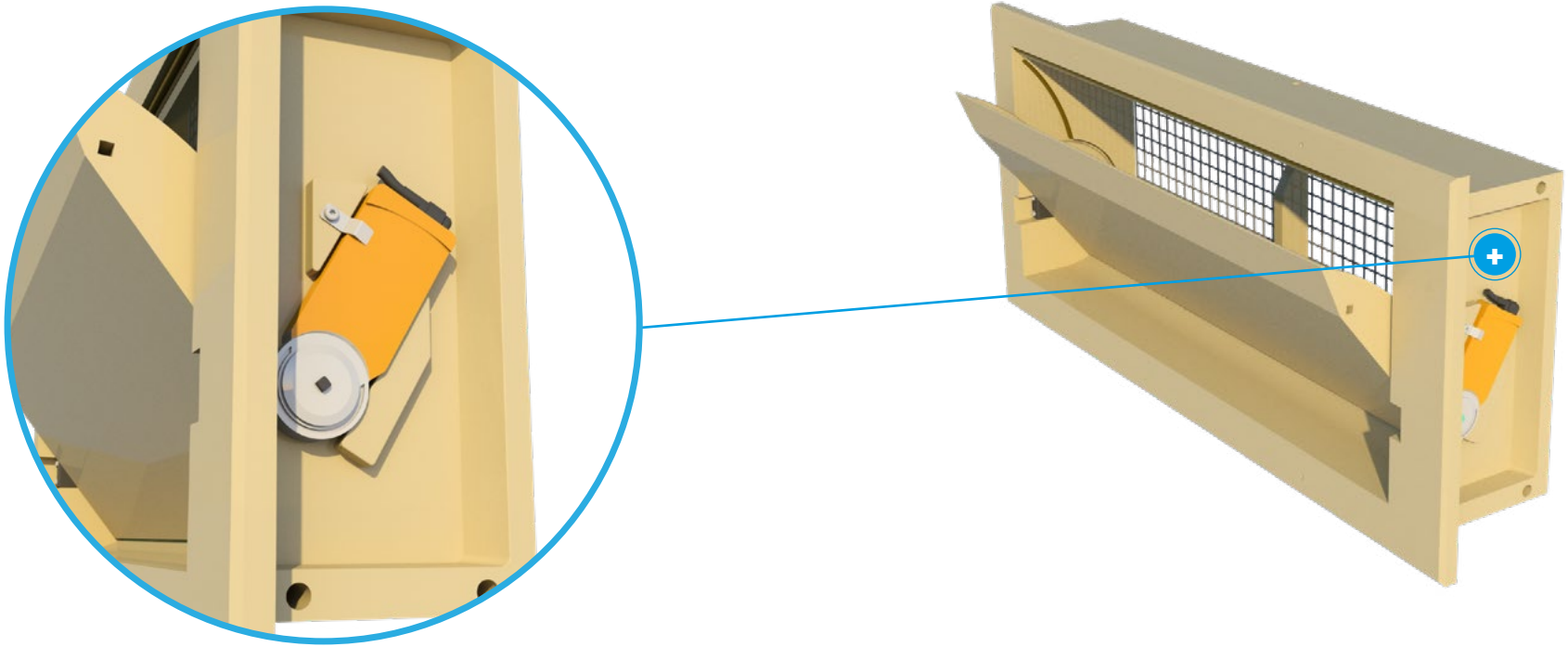
AIR FLOW



CABLE DIMENSIONS

Motors	4 x 0.5mm²	4 x 1.0 mm²	4 x 1.5 mm²	4 x 2.5 mm²
1	163 m	327 m	490 m	816 m
2	82 m	163 m	245 m	408 m
3	54 m	109 m	163 m	272 m
4	41 m	82 m	122 m	204 m
5	33 m	65 m	98 m	163 m
6	27 m	54 m	82 m	136 m
7	23 m	47 m	70 m	117 m
8	20 m	41 m	61 m	102 m
9	18 m	36 m	54 m	91 m
10	16 m	33 m	49 m	82 m

2800-VFRM ASSEMBLY



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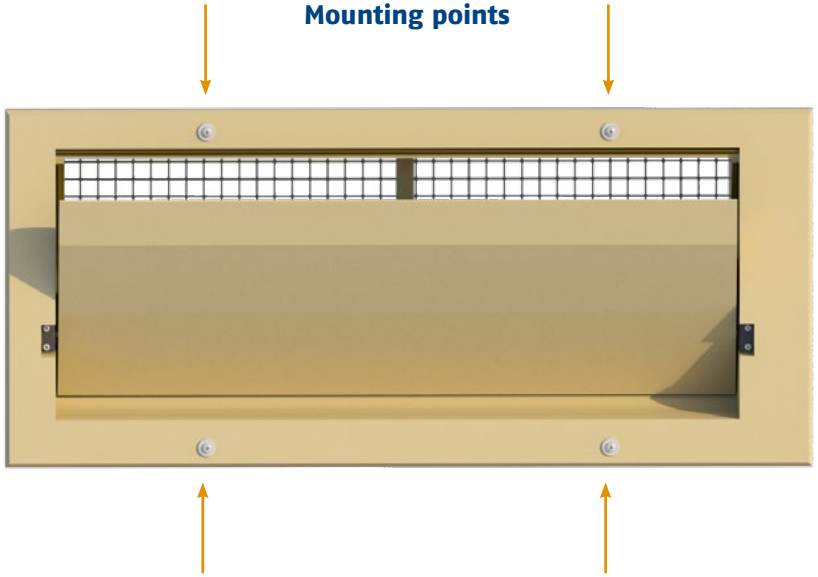
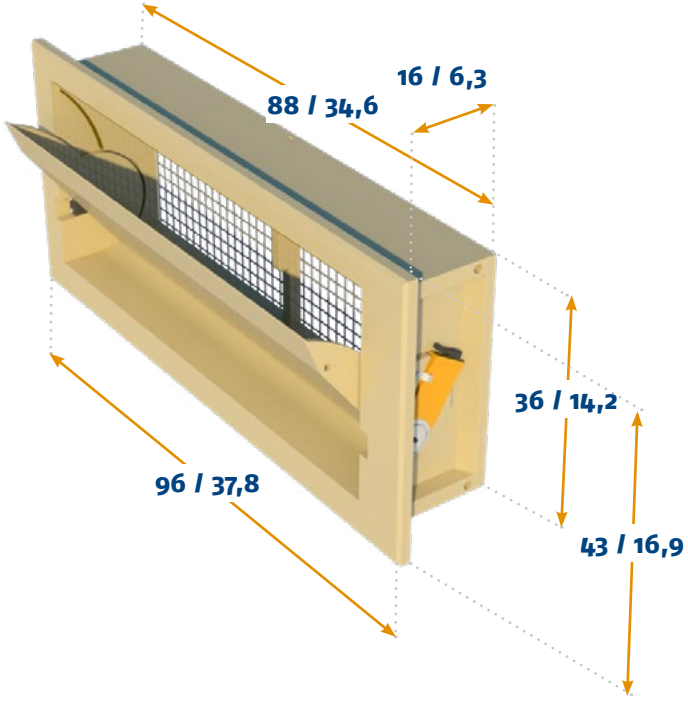
2800-VFRM MOUNTING

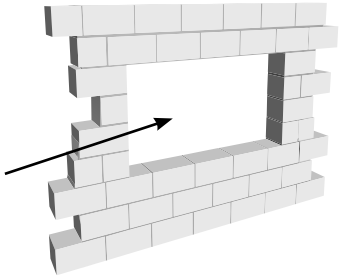
All sizes are in cm and inches





MOUNTING

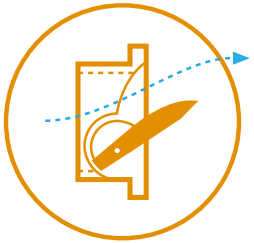
Mounting type	Wall
Mounting hole size	90 cm / 35,4 inch x 38 cm / 15,0 inch

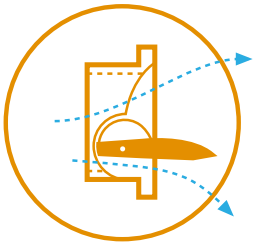


INFO | DATASHEET | ASSEMBLY | MOUNTING | WORKING | MAINTENANCE

2800-VFRM WORKING

AIR FLOW





Motorized opening and closing

This inlet is not operated by use of a traditional main cable and motor winch or actuator.
The 2800-VFRM opens and closes with an electric motor that is built onto the house of the inlet.
In houses where obstructions on the wall make installation of a main cable difficult, this inlet is especially useful.

Bottom hinged inlet

This bottom hinged inlet is made to guide air over the inner flap upwards into the house. This inlet is perfectly suitable for colder climates where air is not meant to be directed towards the animals, even during maximum ventilation.

Straight inner flap

This inlet is equipped with a straight inner flap. Straight flaps guide air in a straight upwards or horizontal direction, never downwards. This is ideal for houses where air should not be directed directly towards or over the animals during maximum ventilation.

WARRANTY / MAINTENANCE

WARRANTY

TPI-Polytechniek offers a 1 year warranty on manufacturers defects. This warranty covers any defects caused by faulty production or design flaws. For parts that are designed to move, wear and tear there is no warranty as these parts are intended and designed to be replaceable. To find details on which parts are marked as replaceable please contact TPI-Polytechniek for further information.

Since TPI-Polytechniek products are meant to be installed by professionals there is no warranty over installation mishaps or any damage caused by incorrect installation of the products herein. TPI-Polytechniek does offer a service warranty of 1 years over correctly and professionally installed products, therefore we strongly advise to use professional personnel.

Our polyurethane formula guarantees high insulation values but does not in any case guarantee that our products cannot freeze when in low temperatures. To ensure optimal functioning of your product(s) please contact your dealer or TPI-Polytechniek for information on installation, set-up adjustments and functionality.

Please note that under no circumstance TPI-Polytechniek is responsible for injuries or loss of life due to malfunction of our products!

INSTALLATION - SET-UP - MAINTENANCE

Make sure to mount inlets on a flat wall surface

A flat wall surface ensures optimal fitment and therefore air leakage will be reduced to a minimum. For optimal functioning make sure to caulk all sides of the inlet with a silicon sealant.

Layout Main Cable

In the layout, straight lines are recommended. Avoid additional pulleys. For additional information, please consult our support department.

Do not use foams or fillers to fill space in between the inlet and the wall

Foams and fillers might cause damage to the inlet or cause it to jam as they have different expansion values due to temperature differences. When in doubt, please ask your supplier for additional information.

Use screws with rivets for mounting the inlets into the wall, be aware of the polyurethane skin

With the use of rivets for mounting the inlets into the wall one can prevent the screw to sink into the flange or skin of the inlet. The outer skin of the polyurethane is hard but the force exerted on screws during installation might penetrate the skin.

For the set-up, connect the inlet to the main cable when in closed position

Make sure the inlet is closed when connecting it to the main cable, this will ensure all inlets are connected in the same modus and less adjustments are needed to optimize the set-up.

Cleaning

Pay close attention while cleaning the inlets, avoid using corrosive cleaning solutions that might harm the polyurethane. Also make sure not to use too much pressure with the pressure washers as it might damage the skin of the inlets. Use max. 120 bar at a minimal distance of 10cm and temperatures not exceeding 40°C

BACK