OMNIFLUX

This inlet is developed for use in very wide houses or houses with obstacles. Due to the adjustable louvres the air flow can be directed in any desired direction independent of the required capacity. With unique sliders and guide rails we make sure the profiled sliding plate of the inlet never gets stuck. Two quick-release clamps at the bottom of the guide rails allow a quick removal of the plate for cleaning purposes. The Pulley Unit created for this inlet has an internal cord lock to lock the inlets when needed.

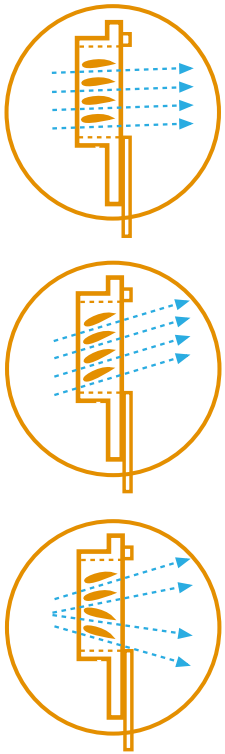
INFO | DATASHEET | ASSEMBLY | MOUNTING | WORKING | MAINTENANCE

OMNIFLUX DATASHEET

CAPACITY

Model	m³/h @ 10 Pa	m³/h @ 20 Pa	m³/h @ 40 Pa	
Omniflux	3200	4450	6400	Horizontally
Omniflux	2250	3200	4450	30°,1 Direction
Omniflux	2150	3000	4350	30°,2 Direction
	cfm @ 0.05 inH2O	**cfm @ 0.1 inH2O**	**cfm @ 0.15 inH2O**	
Omniflux	2106	2922	3638	Horizontally
Omniflux	1481	2102	2529	30°,1 Direction
Omniflux	1415	1970	2472	30°,2 Direction

AIR FLOW



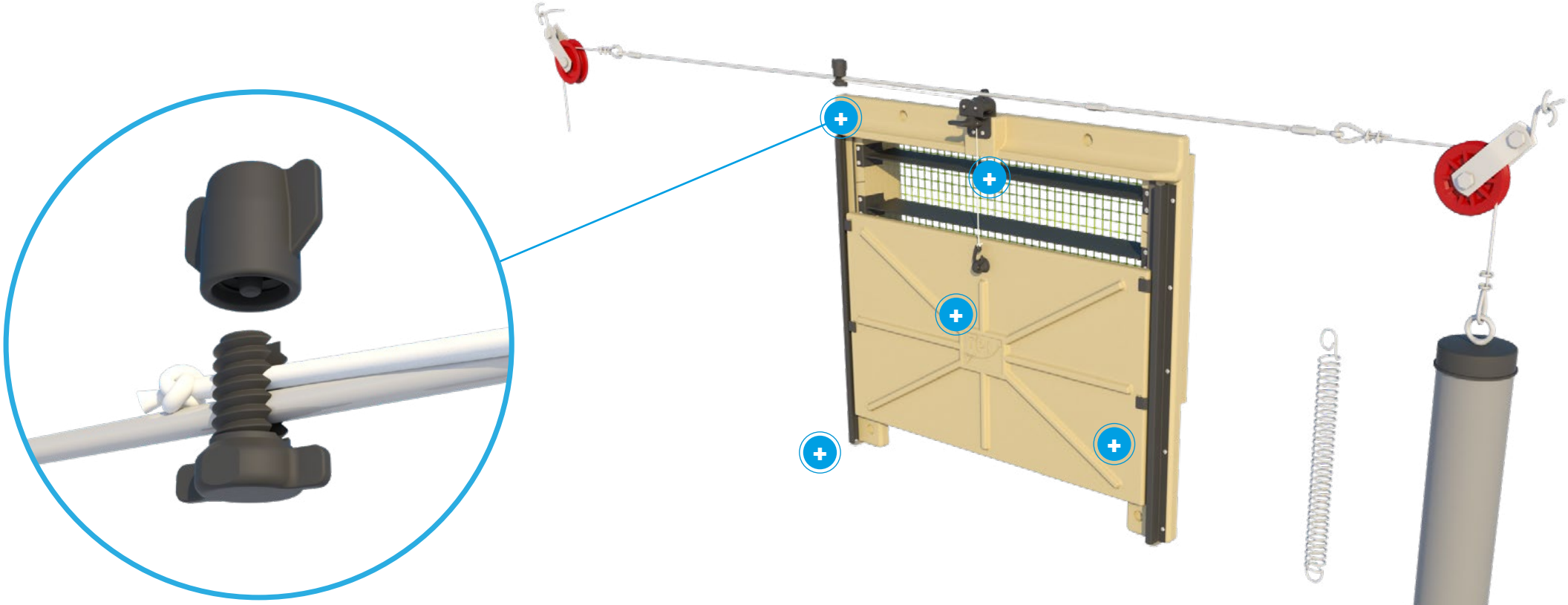
OPTIONAL ACCESSORIES

TPI-117	Wire mesh
synthetic	
TPI-204c	Connection set
TPI-422	Pulley Unit

INFORMATION

Run	42 cm / 16.5 inch
Force	4,5 kg / 44.1 Newton
Number / pallet (1,20 x 1,00 x 2,40m / 47 x 39 x 94,5inch)	22
Weight / per inlet	5,2 kg / 11.5 lbs
Volume / per box	11

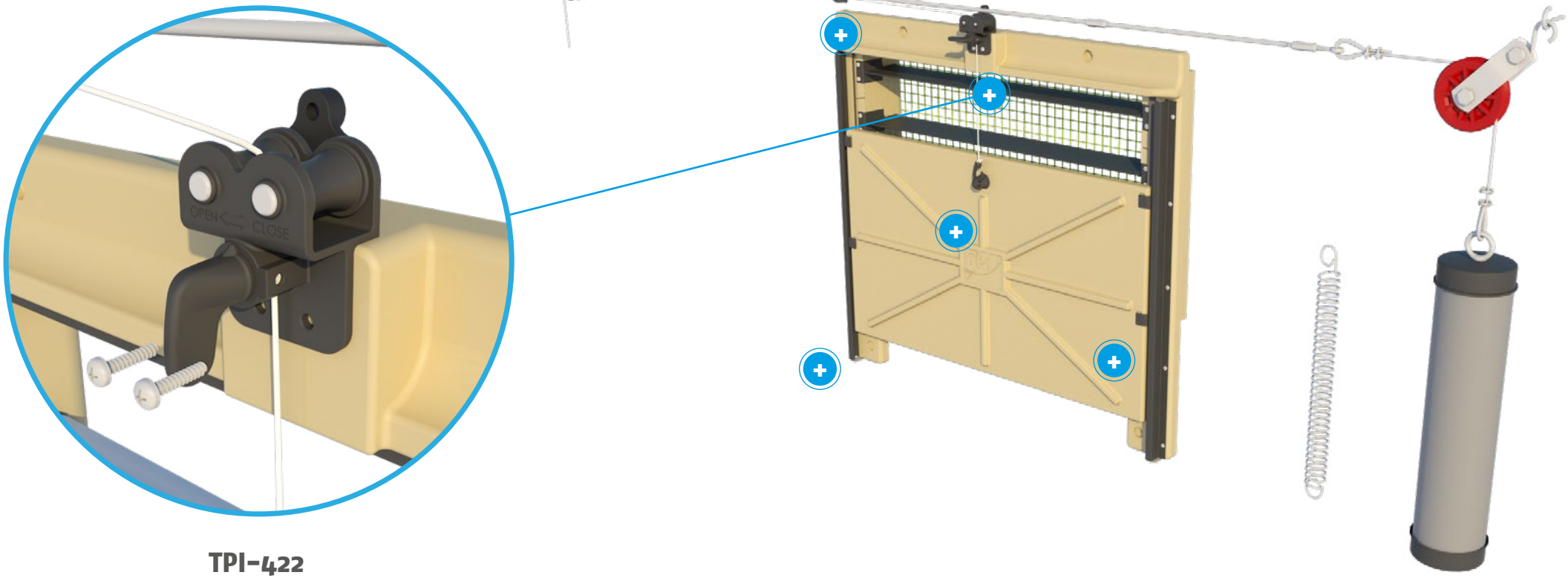
OMNIFLUX ASSEMBLY



TPI-204C

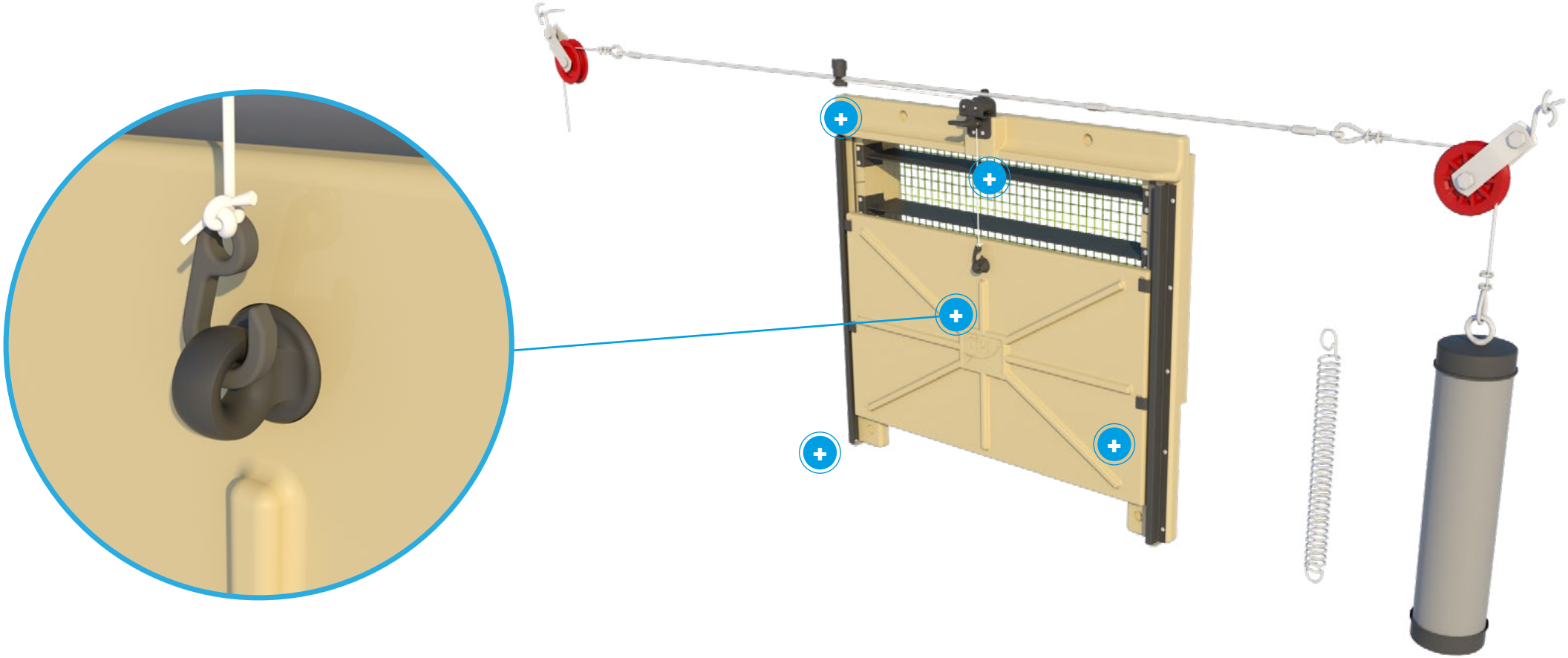
INFO | DATASHEET | ASSEMBLY | MOUNTING | WORKING | MAINTENANCE

OMNIFLUX ASSEMBLY

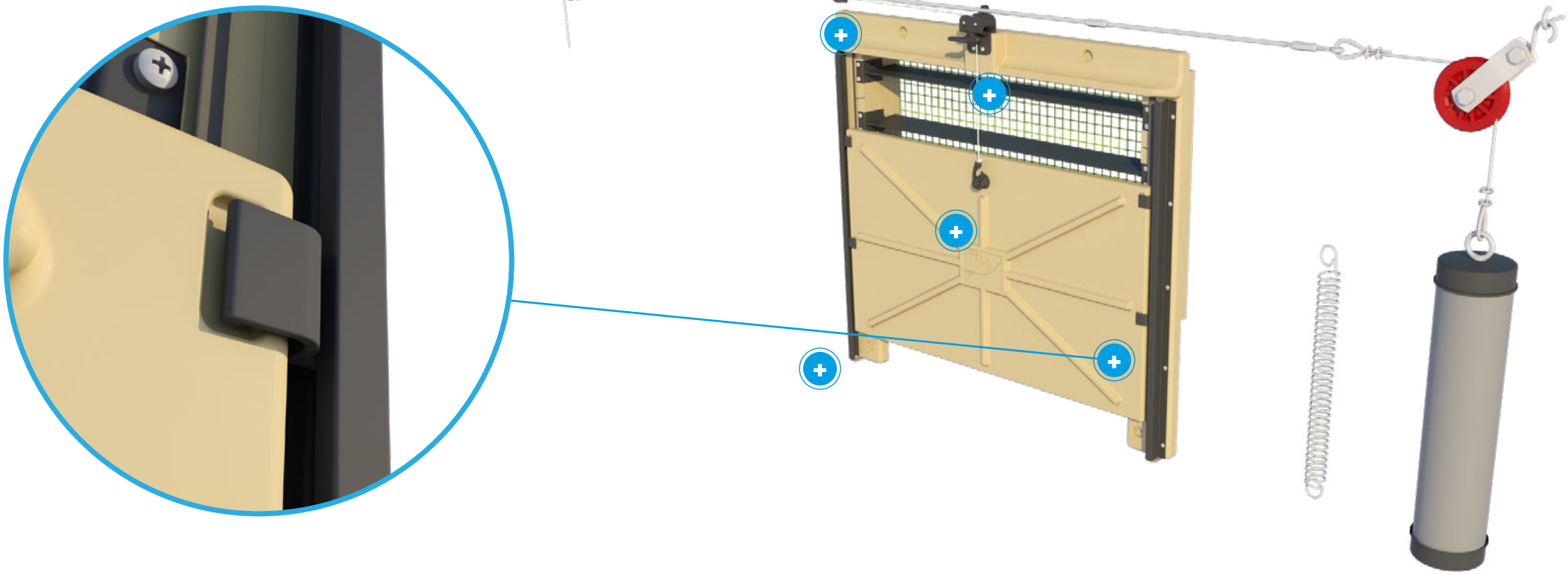


TPI-422

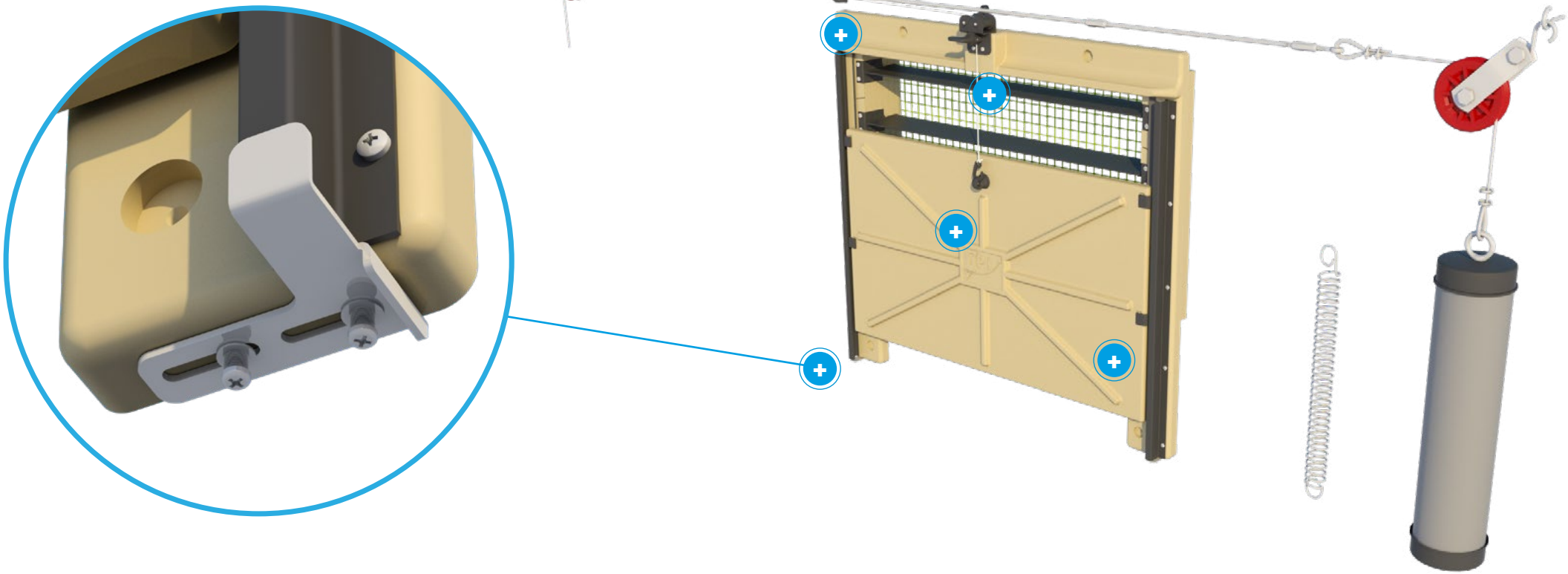
OMNIFLUX ASSEMBLY



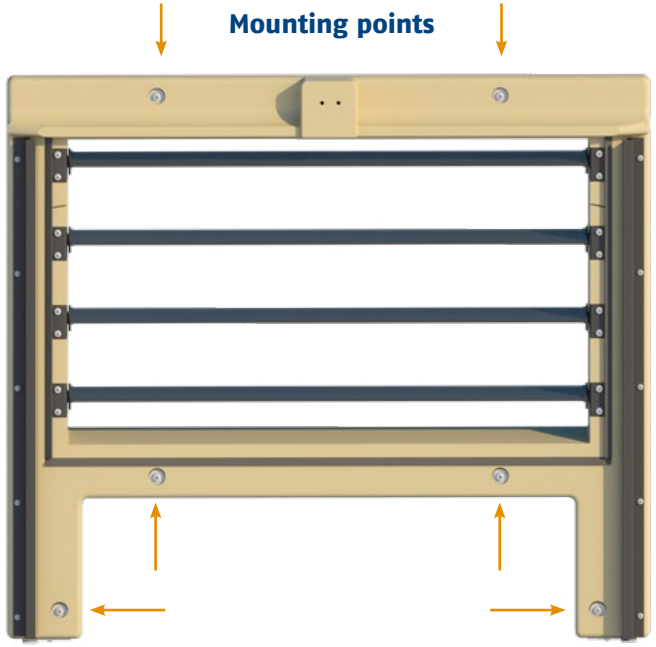
OMNIFLUX ASSEMBLY



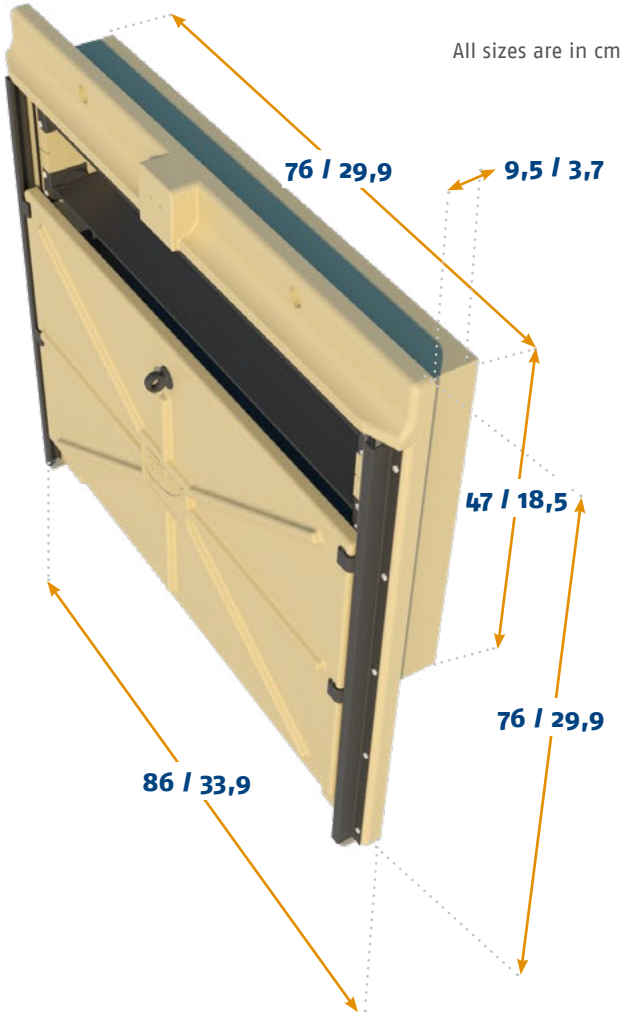
OMNIFLUX ASSEMBLY



OMNIFLUX MOUNTING

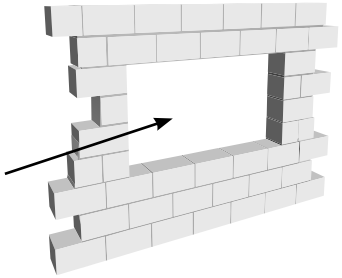


All sizes are in cm and inches



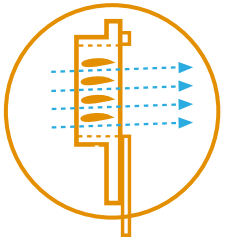
MOUNTING

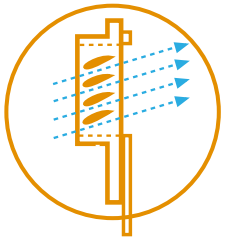
Mounting type	Wall
Mounting hole size	78 cm / 30,7 inch x 49 cm / 19,3 inch

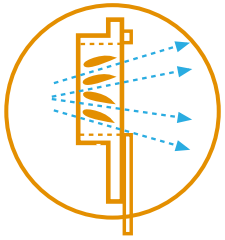


OMNIFLUX WORKING

AIR FLOW







Sliding plate and louvres

Instead of using a moving flap this inlet is equipped with a sliding plate that opens or closes during ventilation. In the house of the inlet individual louvres can be positioned to guide air in whichever direction is preferred. The unique functionality of this louvre system is that air can be guided in each direction independent of the required capacity.

Working with end-weights or springs

We offer two products which can be used to keep tension on the main cable. A PVC cylinder which can be filled with concrete or sand to act as end-weight, or a spring that holds tension on the cable.

Balanced set-up

When placing the motor winch or actuator we normally suggest to divide the inlets in two groups. It is preferable to place the winch or actuator in the middle to equally divide the forces on the main cable.
(see ventilation concepts page for an example)

Use of closing catches

The closing catch on the inlet can be used to permanently close inlets for example during pre-heating. The closing catches can also be used to close certain inlets while continuing to use others. In that case the used inlets can be opened a bit further. In colder climates this can help to offer better resistance to freezing effects.

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