

# INSUFLAIR 65 + 300

Membrane air injector

## Technical Data Sheet



## Description

The Insuflair 65 and 300 needs at least 2 meters of suction height.

- For water tanks up to 300L : type 65
- For water tanks up to 750L : type 300
- Provided with stainless braided pipe 5/7 pipe and 1/4 Gaz connections



## INSUFLAIR 65 + 300

Membrane air injector

Type	Tank	Ref.
Insuflair 65	300 L	<b>149B5371</b>
Insuflair 300	750 L	<b>149B5372</b>

Capacity of the tank not to exceed for each device according to the stop pressure of the system :

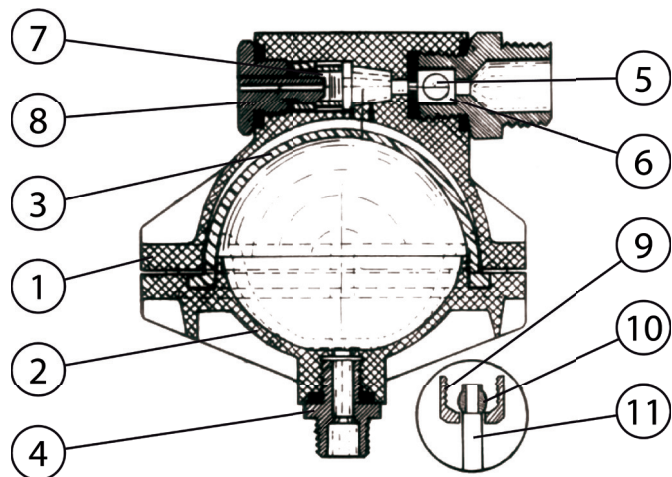
Type	3 bar	4 bar	5 bar	6 bar	7 bar
Insuflair 65	300 L	200 L	100 L	-	-
Insuflair 300	750 L	500 L	500 L	300 L	-
Surpress	2000 L	2000 L	2000 L	2000 L	1500 L

### Technical features

Operating temperature	0 °C to 40 °C
Permissible operating pressure (PFA) in water	5 bar
Connection	Male 1/2, BSP threaded
Mediums	Clear water

### Nomenclature and materials

N°	Designation
1	Upper shell
2	Lower shell
3	Membrane
4	1/4" Connector
5	Ball Stainless steel
6	Ball seat
7	Air intake valve
8	Valve support
9	Tube connector
10	Connection
11	5/7 Stainless braided pipe



## Approvals

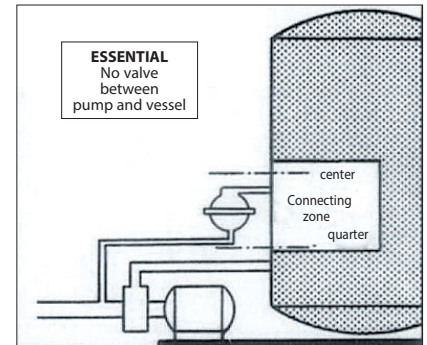
**International construction Standards :**  
Thread connection NF EN ISO 228-1

## Installation

### Applications

The higher the pressure in the vessel, the smaller the air layer, the more air is dissolved in the water and the lower the useful volume of water. The injection device must therefore be selected taking into account both the PRESSURE and the capacity of the vessel.

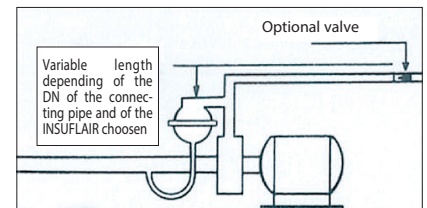
Using an INSUFLAIR on a vessel smaller than the maximum shown in the table has many advantages. The air layer will increase more quickly, allowing the INSUFLAIR to achieve its objective quicker : increasing the USEFUL volume of water, and hence decreasing the pump's frequency of operation.



### Special cases

Fitting an INSUFLAIR on the pump unit outlet. When the pump unit is at a distance from the vessel, the INSUFLAIR can be fitted to the jolting at the pump outlet provided there were no other connections on it, since it would receive air from the device. This arrangement also allows a retaining valve to be used between the pump and the vessel, provided that the volume of the pipe between this valve and the INSUFLAIR is at least equal to the volume of air injected by the device :

- for an INSUFLAIR 65 : 10 cm of 26/34 or 7 cm of 33/42.
- for an INSUFLAIR 300 : 50 cm of 26/34 or 30 cm of 33/42



Remember that even if a valve is fitted on the outlet, an intake valve (e.g. basket valve) must still be fitted whenever the level of the pumped water is lower than the pump unit.

### INLET PRESSURE LOW, ZERO OR UNDER LOAD :

The INSULFAIR 65 and 300 require an inlet height of at least 2 meters.

If the inlet is lower or is under load, this type of unit cannot operate. Instead, you should use :

- INSUFLAIR 600 for volumes up to 1 000 litres or
- INSUFLAIR-SURPRESS II up to 2 000 litres.

The two devices work in all intake conditions.

**BEWARE OF AIR LEAKS ! They are responsible for the majority of problems on pressure unit.** Pay particular attention to seals on the top-third of the tank and check them after stopping the pipe at 2 bar (soap bubbles or special products. At this pressure, water should fill two-thirds of the tank when the facility is commissioned.



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