

# STEAM DISTRIBUTORS FOR HUMIDIFIERS **EASYSTEAM**



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Installation manual

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**READ AND KEEP**

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ENG

**EASYSTEAM**

Humidifiers  
**Pego**<sup>®</sup>



Thank you for choosing a PEGO steam distributor for immersed electrodes humidifiers EASYSTEAM.

The complete reading of this manual will allow you to perform a correct installation.

We therefore recommend that you keep this manual.

### GENERALITY



A good distribution of steam, to obtain the desired level of humidity in any environment, is linked to two main variables: the amount of steam introduced into the environment and its distribution.

In fact, when the steam is introduced into an environment in a non-homogeneous way, it tends to create saturated zones and zones deficient in humidity, causing a phenomenon of excessive condensation and the difficult control of the production of steam and triggering a "pendulum" effect. It is advisable to introduce the steam with a PEGO steam distributor, inserting it into the air duct or in front of a fan unit where you want to put the steam directly in an environment without an air duct.

### MAIN INSTALLATION WARNINGS

1. Use only PEGO HUMIDIFIERS steam tube or other tube with certification that guarantees its use in the presence of high temperatures without internal vulcanization processes and release of harmful substances.
2. The steam tube must be of a suitable diameter and must be firmly fixed to the steam distributor with a hose clamp.
3. Do not make bottlenecks, siphons or lengths greater than 5 meters.
4. Do not make sharp bends or at 90 °. The minimum bending radius (at 20 ° C) is 115mm for the **UMITUBVAP25M** tube and is 180mm for the **UMITUBVAP40M** tube.
5. If rigid pipes are used, use only copper or stainless steel pipes and connect the rigid steam line to the steam distributor, using a small portion of steam tube, fixed with the appropriate clamps.
6. The provisions of points 2, 3 and 4 also apply to rigid pipes.
7. To facilitate the installation of steam distributors and for control reasons, an inspection hole of sufficient size must be provided inside the air duct.
8. Within the humidification distance, the ventilation duct should be watertight.
9. The air ducts that pass through cold environments must be insulated so as to avoid condensation of the humidified air on the walls of the duct.
10. Unfavorable fluid dynamic conditions inside the air duct (eg. due to obstacles, tight bending radii, etc.) can cause condensation of the humidified air.
11. For any questions, please contact the Pego service center, listed on the back of this manual.

**EXAMPLE OF DISTRIBUTION IN AIR DUCT**

The PEGO steam distributor must be inserted transversally to the air flow in the duct and with the holes facing upwards.

The steam distributor must be positioned horizontally, tilted so that the tip is slightly higher than the base; this to allow an efficient recovery of any condensation. To improve the efficiency of the distribution, the steam distributor must cover the width of the airflow as much as possible.

**NB:** The maximum airflow pressure in the air duct must not exceed 1,200Pa (fig. 1).

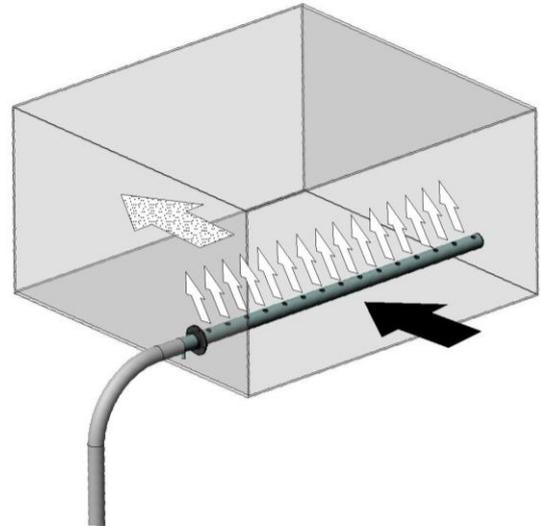


Fig. 1

**EXAMPLE OF DISTRIBUTION IN AMBIENT**

The PEGO steam distributor must be positioned transversely in front of the air flow of a fan unit and with the holes facing upwards.

The steam distributor must be positioned horizontally, tilted so that the tip is slightly higher than the base; this to allow an efficient recovery of any condensation.

To improve the efficiency of the distribution, the steam distributor must cover the width of the airflow as much as possible (fig. 2).

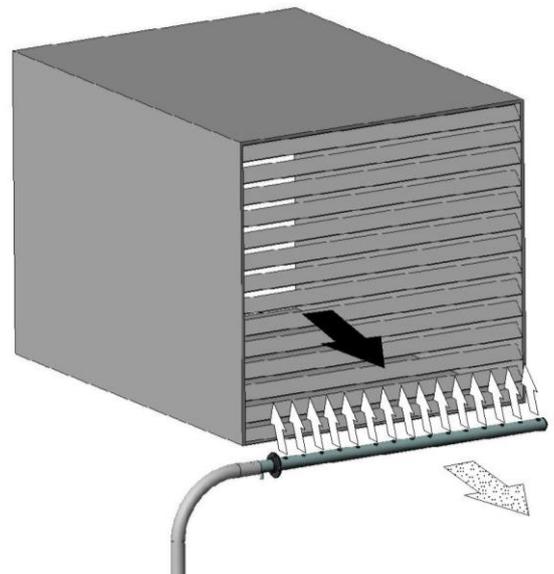


Fig. 2

**EXAMPLE OF DISTRIBUTION IN TURKISH BATH**

The steam diffusion nozzle must be positioned at the bottom and in such a way as not to direct the steam jet directly onto the users of the Turkish bath.

**STEAM DISTRIBUTORS MODELS**

<b>CODE</b>	<b>TOTAL LENGTH</b>	<b>LENGTH OF THE STEAM SUPPLY</b>	<b>MATERIAL</b>	<b>STEAM TUBE DIAMETER</b>
400ILAN25X200	300mm	200mm	Stainless steel	25mm
400ILAN25X250	350mm	250mm	Stainless steel	25mm
400ILAN25X350	450mm	350mm	Stainless steel	25mm
400ILAN25X500	600mm	500mm	Stainless steel	25mm
400ILAN25X650	750mm	650mm	Stainless steel	25mm
400ILAN25X800	900mm	800mm	Stainless steel	25mm
400ILAN25X1000	1100mm	1000mm	Stainless steel	25mm
400ILAN25X1050	1150mm	1050mm	Stainless steel	25mm
400ILAN25X1100	1200mm	1100mm	Stainless steel	25mm
400ILAN25X1700	1800mm	1700mm	Stainless steel	25mm
UMILANSAUNA	260mm	160mm	Stainless steel	25mm
400LAN25X200	280mm	200mm	Aluminum	25mm
400LAN25X250	330mm	250mm	Aluminum	25mm
400LAN25X350	430mm	350mm	Aluminum	25mm
400LAN25X500	580mm	500mm	Aluminum	25mm
400LAN25X650	730mm	650mm	Aluminum	25mm
400LAN25X800	880mm	800mm	Aluminum	25mm
400LAN25X1000	1080mm	1000mm	Aluminum	25mm
400LANSAUNA25	109mm	/	Plastic material	25mm
400LANWEL25	156mm	/	Plastic material	25mm
400ILAN40X200	300mm	200mm	Stainless steel	40mm
400ILAN40X250	350mm	250mm	Stainless steel	40mm
400ILAN40X350	450mm	350mm	Stainless steel	40mm
400ILAN40X500	600mm	500mm	Stainless steel	40mm
400ILAN40X650	750mm	650mm	Stainless steel	40mm
400ILAN40X800	900mm	800mm	Stainless steel	40mm
400ILAN40X1000	1100mm	1000mm	Stainless steel	40mm
400ILAN40X1200	1300mm	1200mm	Stainless steel	40mm
400ILAN40X1500	1600mm	1500mm	Stainless steel	40mm
400ILAN40X1600	1700mm	1600mm	Stainless steel	40mm
UMILANSAUNA40	260mm	160mm	Stainless steel	40mm
400LAN40X200	246mm	200mm	Aluminum	40mm
400LAN40X250	296mm	250mm	Aluminum	40mm
400LAN40X350	396mm	350mm	Aluminum	40mm
400LAN40X500	546mm	500mm	Aluminum	40mm
400LAN40X650	696mm	650mm	Aluminum	40mm
400LAN40X800	846mm	800mm	Aluminum	40mm
400LAN40X1000	1046mm	1000mm	Aluminum	40mm
400LAN40X1200	1246mm	1200mm	Aluminum	40mm
400LAN40X1400	1446mm	1400mm	Aluminum	40mm
400LANSAUNA40	74,5mm	/	Plastic material	40mm
400LANWEL40	121,50mm	/	Plastic material	40mm



PEGO offers the possibility to request steam distributors with customized length.

## CONDENSATION RECOVERY

1. Regardless of the type of application, a certain amount of condensation forms inside the steam distributor.

This condensation must be drained in order not to obstruct the steam flow. If the steam distributor is positioned at a point higher than the humidifier and the steam tube does not generate siphons, the condensate recovery tube may not be installed (eg. fig. 3).

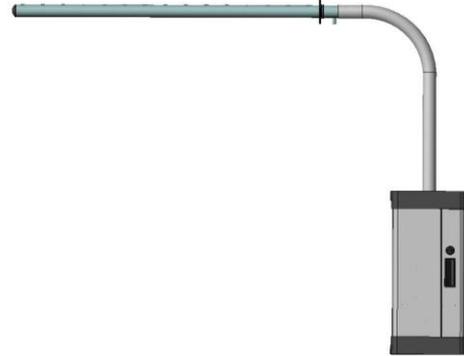


Fig. 3

2. If the steam distributor is positioned at a point higher than the humidifier and the steam tube generates a siphon (e.g. Fig. 4), the condensate recovery tube must be installed, directly discharging in the appropriate cylinder sleeve of the humidifier (Fig. 5) or in a water collection well. Condensate recovery is performed by connecting the PEGO **UMITUBODN10** tube, specific for this type of application, to the 10mm diameter sleeve of the steam distributor. In the path of the condensate recovery tube, from the steam distributor to the humidifier or from the steam distributor to the well, it is necessary to perform a siphon with a complete turn with a minimum diameter of 200mm; the siphon must also be filled with water before installation. This will prevent the steam outlet from the condensate recovery tube (fig. 4).

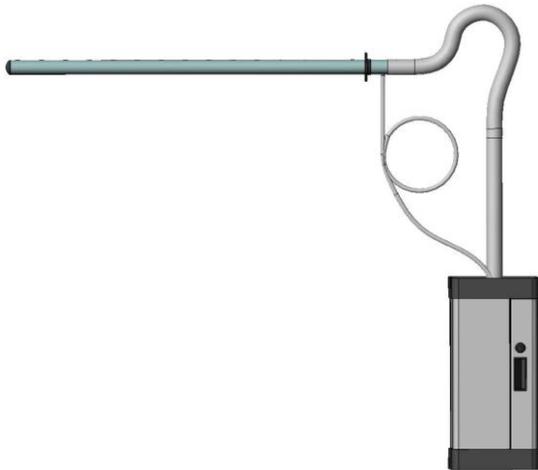


Fig.4

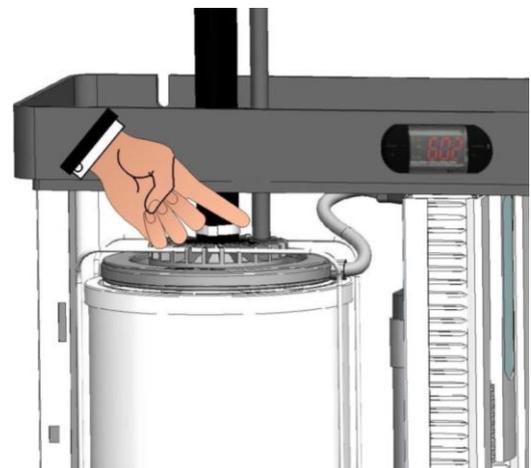


Fig. 5

3. If the steam distributor is positioned lower than the humidifier, as generally happens in installations with OEM series humidifiers, it is essential to perform the condensate recovery by discharging into a water collection well.





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Distributor: