

# AERATION TECHNOLOGY

World-wide established systems to dissolve gases effectively in liquids



## TURBO AIR

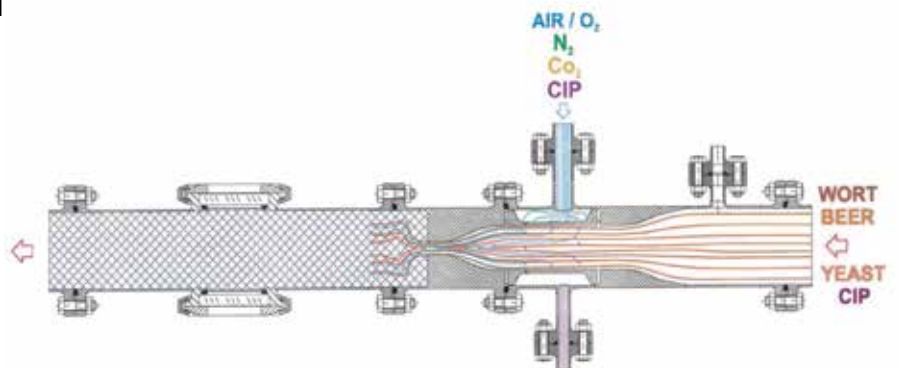
**the most effective and state-of-the-art system for wort aeration**

Good fermentation requires yeast in top condition and the correct aeration of wort and yeast before pitching. The TURBO AIR two-component nozzle has proven its use in countless projects around the world and corresponds to the latest state of technology for such applications.

The construction complies with all aspects of hygienic design and therefore offers increased safety for this sensitive area of beer production. Its design results in the formation of ultra-fine air bubbles immediately after the nozzle.

A dissolving section after the aeration unit is not required, due to the formation of very small bubbles. The effect of the nozzle - acceleration of the product flow with subsequent, sudden relaxation - makes it completely independent of the installation orientation (horizontal or vertical).

**The nominal widths available range from 40 to 150 mm and cover flow capacities from 25 to 1**



## Your Advantages

- Best possible aeration effect by forming very fine bubbles
- Reduced foaming in fermenter
- Savings of pressurized air
- Reduced Bitterness Unit losses
- Saturation right after the nozzle, therefore no dissolving section required
- Monitoring of the sterile air quantity by measuring pressure and flow speed
- Suitable for manual and automated operation
- Simple and comprehensive operation directly at the touch panel
- Microbiological safety of the product due to construction according to Hygienic Design
- Different degrees of automation offer a solution for every budget

## MICRO AIR / CRAFT AIR

ESAU & HUEBER also offers possibilities for a professional and efficient aeration for smaller breweries and smaller budgets.

The MICRO AIR und CRAFT AIR characterizes through a cost-optimized design, which offers a very effective solubility of oxygen in the wort. It is possible to connect the system with hoses, a fixed piping is not necessary. The system can be ordered with just the nozzle or including a sterile air panel and, depending on the location of the unit, with a frame for floor mounting or for wall mounting.

### Overview of the Aeration Systems of ESAU & HUEBER

		MICRO AIR	CRAFT AIR	TURBO AIR semi	TURBO AIR ratio
Diameter	DN20	✓	✓	✗	✗
	DN25	✓	✓	✓	✓
	DN32	✓	✓	✗	✗
	DN40	✓	✓	✓	✓
	DN50	✓	✓	✓	✓
	DN65	✗	✗	✓	✓
	DN80	✗	✗	✓	✓
	DN100	✗	✗	✓	✓
	DN125	✗	✗	✓	✓
	DN150	✗	✗	✓	✓
Automation	Terminal Box	✗	✗	✓	✗
	Switch Cabinet Siemens ET200SP	✗	✗	✓	✓
	Switch Cabinet S7-1500, Touch-Panel, Software	✗	✗	✗	✓
Options	Sterile Air Panel	✓	✓	inclusive	inclusive
	Air Filter Capsule	✓	✓	✗	✗
	Sterile Air Filter	✓	✓	inclusive	inclusive
	Additional connection for purging with air	✗	✗	✓	✓
	Activated Carbon Filter (only with Air)	✗	✗	✓	✓
	Steam Filter	✗	✗	✓	✓
	Inductive Flow Meter in product line	✗	✗	✗	✓

- ✓ Option possible
- ✗ Option not possible





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