



LEADING IN PRODUCTION EFFICIENCY

Ecopaint Booth

MODULAR PAINT BOOTHS



» The specially developed filter box from Dürr is suitable for many different paint types



Ecopaint Booth – MODULAR PAINT BOOTHS FOR ALL REQUIREMENTS

Dürr plans and realizes turnkey paint shops worldwide. Our goal is to implement customer-specific solutions reliably and professionally. From planning to realization, we stand for efficient solutions that make lower unit costs possible.

The paint booth is the core area of the paint shop. The high-quality surface of the vehicle arises here, which significantly contributes to the quality and value of the final product. Our product line **Ecopaint Booth** stands for modular and powerful paint booths with integrated application equipment and conveyor systems.

As a pioneer in dry separation for car body painting, Dürr successfully introduced and established the **EcoDryScrubber** on the market. With the **EcoDry X**, this technology family was extended by another efficient member. Today, most new plants are equipped with dry separation systems. Additionally, the classical wet scrubber systems are an integral part of our product offering.

Customer requirements in focus

The requirements of our customers determine everything from the general process parameters like space requirement, capacity and throughput time up to the structural circumstances. Our paint booths are modular, permit easy cleaning of all components and can be flexibly adjusted. Heat recovery, air conditioning and paint overspray separation belong to our product portfolio, just like high maintainability.

Your benefits





- » Individual solutions
- » High process reliability and quality
- » Standardized interfaces
- » Quick planning phases, shorter production start-up times
- » Standardized parts and pre-assembled components

PAINT SEPARATION – ONE STEP AHEAD

Dürr offers the whole spectrum for paint separation, including innovative dry separation with differing filter media or the traditional wet scrubber.

When applying wet paints, the level of automation determines the effect. Generally speaking, the more automation, the less paint overspray is produced. However, even with optimized, automated exterior painting, up to 35% of the paint does not reach the car body surface.

The use of innovative paint separation systems helps to remove this paint overspray while using resources efficiently. Dürr provides the optimal separation system in each case depending on the requirements for the line capacity and the desired sustainability, the climatic conditions or the prerequisites at the respective production site and, last but not least, the quantity of the paint overspray.

	EcoDryScrubber	EcoDry X	EcoEnvirojet 3	EcoEnvirojet 3S
				
SEPARATION SYSTEM	Dry separation		Wet scrubber	
CHARACTERISTICS	Highest degree of separation	Simple, stable process	Standard	
			Overall height > 3.5 m	Overall height < 1.4 m
PAINT CAPACITY	++	+	++	+
EMISSIONS	< 0.1 mg/Nm ³	0.5–3.0 mg/Nm ³	< 3.0 mg/Nm ³	< 3.0 mg/Nm ³
PRESSURE DROP	Constant	Increasing	Constant	Constant
OPERATION AND MAINTENANCE	Qualified personnel	Trained personnel	Qualified personnel	Qualified personnel
SUITABLE FOR	Greenfield and brownfield solutions			

EcoDryScrubber – EFFICIENCY THROUGH DRY SEPARATION

With the **EcoDryScrubber** technology, Dürr revolutionized the separation of paint overspray. The globally successful system is based on dry separation with powdered limestone as the binding agent for the paint overspray and can justifiably be seen as a pioneer in dry separation in automotive painting. The use of water and coagulation chemicals is omitted in this process.

Successful – **EcoDryScrubber** proves itself in more than 80 painting lines worldwide:

- » Intelligent, self-regulating control system V5.X
- » Limestone consumption up to 30% lower
- » Waste-free through 2nd utilization cycle
- » Lower costs for filter exchange
- » Best in class: 99.9% filtering efficiency



» *EcoDryScrubber uses powdered limestone as a natural binding agent for paint overspray*

EcoDry X – THE INTENTIONALLY SIMPLE AND ROBUST PAINT OVERSPRAY SEPARATION

EcoDry X is a multi-stage filter system with very easily exchangeable disposable cardboard filters. Quick filter replacement, even during production if necessary, is ensured through the use of quick-changing trolleys. Once the filter boxes are saturated, the filter trolley is undocked manually and is replaced by a prepared trolley with new filter boxes. That is how simple loading and unloading of the filter boxes can be carried out: easily, predictably, quickly.

- » Suitable for the application of primers, base coats and clear coats
- » Semi-automatic and robust
- » Easy operation and maintenance
- » More than 60 tested paints
- » Intelligent filter management
- » digital@Dürr compliant
- » Ideal replacement for existing wet systems
- » Specially developed Dürr Filter Box as a benchmark for costs and performance



» *The efficient filter box developed by Dürr is a core component of the EcoDry X*

EcoEnvirojet 3 and 3S – FLEXIBLE WET SCRUBBERS

EcoEnvirojet 3 from Dürr stands for classic wet scrubbing and is used worldwide in many factories. The system is easy to operate and clean. Additionally, the technology is highly accessible and exemplary for all requirements related to maintenance and disposal.

- » Classic wet scrubbing
- » Good access for cleaning and maintenance
- » Overall height > 3.5 m

EcoEnvirojet 3S is a variant with a significantly lower overall height. Because this allows the paint booth to be installed on the same level as the oven, for example, completely new, compact layout concepts are possible. Wherever a low height is to be combined with optimal paint separation – whether in new plants or for modifications – the **EcoEnvirojet 3S** can be employed in a space-saving manner.

- » Compact for low overall heights < 1.4 m
- » Ideal for the modification of existing plants

» *EcoEnvirojet 3S scores through a low overall height*



» *EcoEnvirojet 3 has been a proven system for years*

Ecopaint AirHandling

From fresh-air conditioning through exhaust-air purification to air treatment, Dürr offers everything as a single source supplier.

The temperature and moisture control system **EcoSmart AC**, for example, establishes the preconditions for stable and energy-efficient operation of your paint booth. The intelligent control system permits precise and robust control of temperature and relative humidity in spray booths, even under extreme climatic changes and quickly altering external conditions.

Additionally Dürr provides state-of-the-art plant technologies in the field of exhaust air purification. These technologies allow an efficient disposal of exhaust air and waste.



» **EcoSmart AC** – The control software optimally regulates the air supply units and air recirculation units

GLOBAL PRESENCE

Dürr's highly motivated worldwide service network is at your disposal from commissioning through to ongoing operation. A comprehensive spare parts concept completes the portfolio.

We will gladly advise you about modification and modernization.



LEADING IN PRODUCTION EFFICIENCY

Dürr – Leading in Production Efficiency

Five divisions, one goal: maximum production efficiency for our customers

- » **Paint and Final Assembly Systems:** paint shops and final assembly systems for the automotive industry
- » **Application Technology:** robot technologies for the automatic application of paint as well as sealants and adhesives
- » **Measuring and Process Systems:** balancing and cleaning systems as well as assembly, testing and filling technology
- » **Clean Technology Systems:** exhaust-air purification systems and energy-efficiency technology
- » **Woodworking Machinery and Systems:** machinery and systems for the woodworking industry