

Infrared Gas Radiation Dryer
for dye drying following pad-dry
and thermosol dye processes

Infrared Gas Radiation Dryer



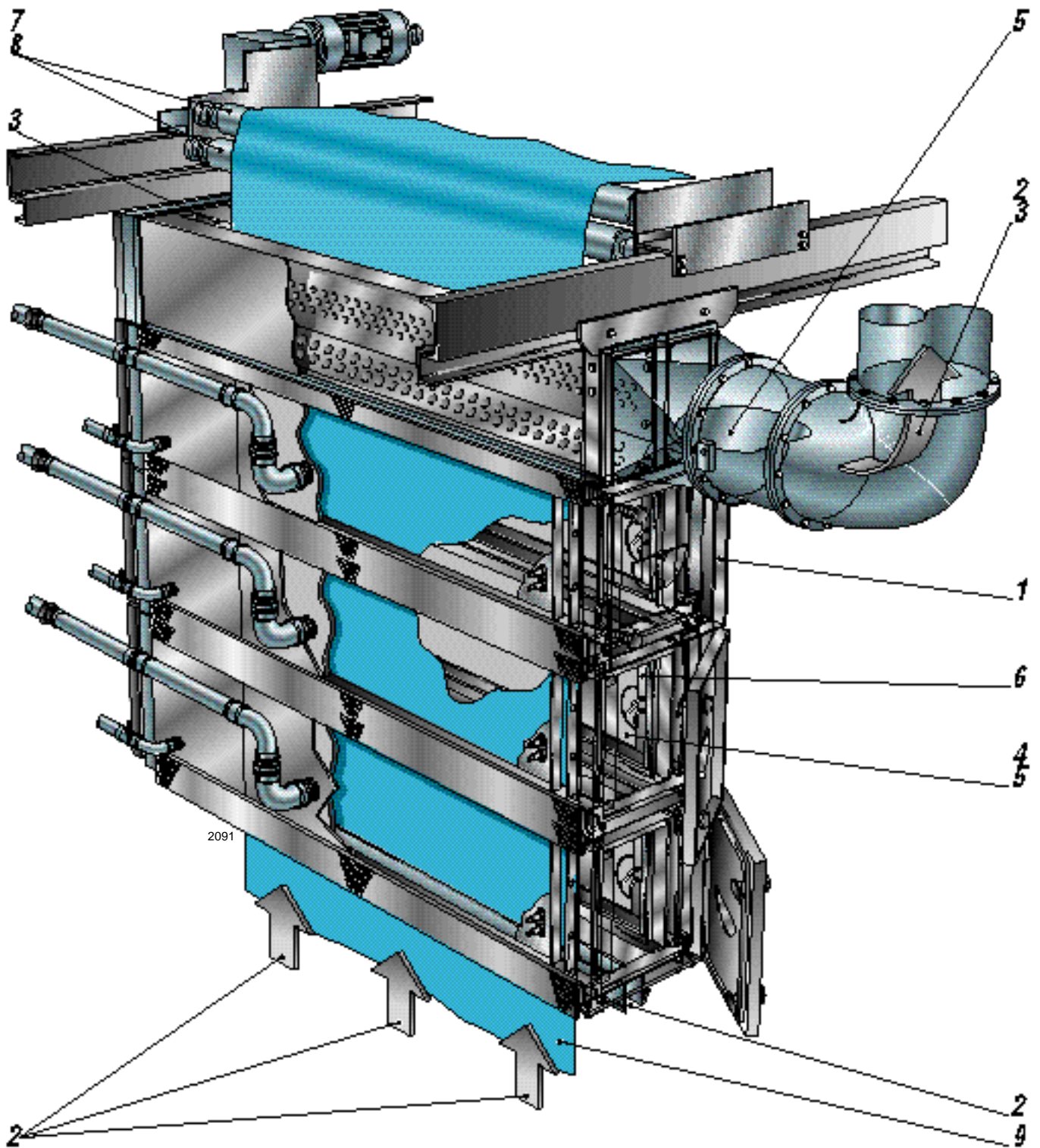
Main characteristics:

- Ideal for preventing dye migration
- Ensures consistent operating conditions
- Prevents roller staining in downline convection dryers
- Non-contact, homogeneous predrying of fabric over length and width
- Evaporation rate adjustable for fabric and production job
- Modular design
- Wrinkle-free low-tension fabric run
- No fabric burn during machine standstills

Filing guide:
Documentation folder, Section 5

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No fabric burn during machine standstills.



Evaporation rate adjustable for fabric and production job

Evaporation rate adaptation / operating safety

– Modular design:

The Seco-Rad Radiation Dryer is made up of superimposed sections. A single aggregate consists of an exhaust section plus one, two or three emitter sections. The emitters can be controlled by sections. This gives a short, no-contact fabric path.

– Flexible performance:

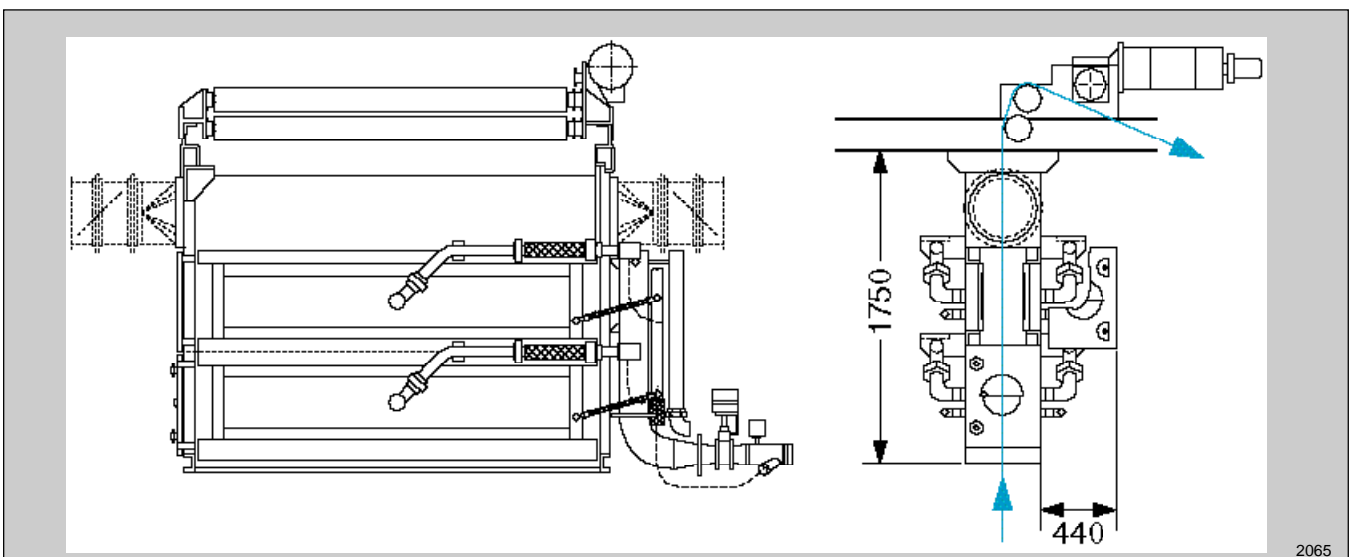
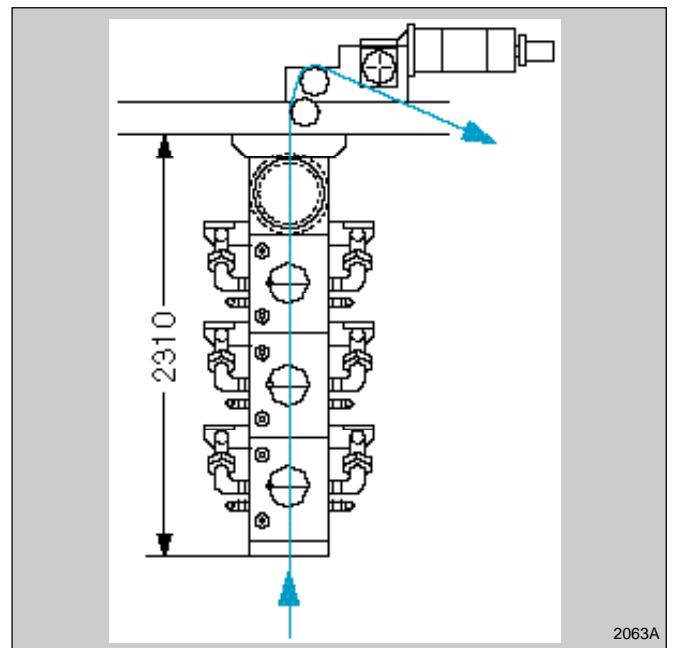
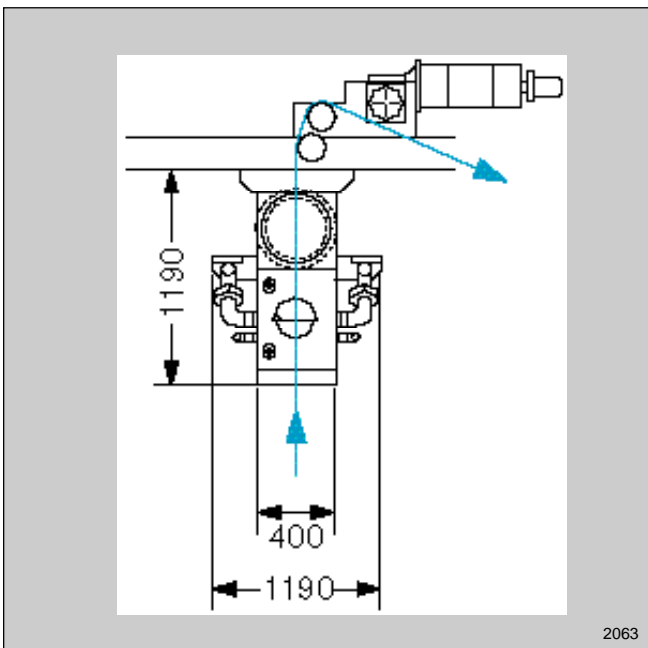
More than one radiation dryer can be installed in sequence, depending on fabric weight, substrate and production speed. This together with the ability to select sections gives the entire system the flexibility to adapt to different production tasks.

– High safety in operation:

The functioning of the radiation dryer is largely automated for reasons of safety. When the pressure monitors for exhaust, combustion air and gas pressure report readiness, all other functions follow automatically when the drive is switched on.

– Low maintenance:

Since there are no moving parts, maintenance costs are very low.



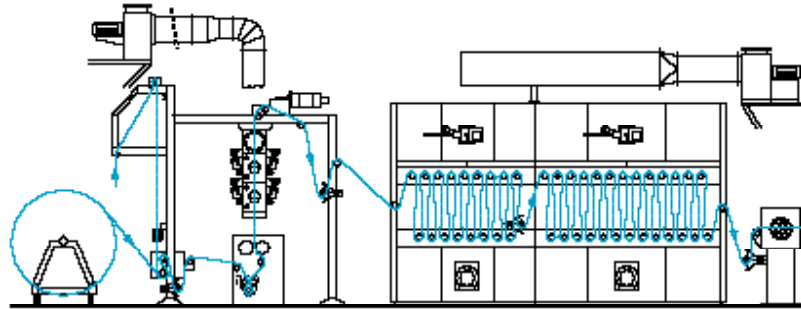
Examples of custom systems for a variety of applications.

left: **Pad-dry dyeing system, intended primarily for PES blend fabrics**

Main elements: Padder (Babco-Flex) followed by IR radiation dryer (Seco-Rad), drying hotflue with subsequent cooling zone.

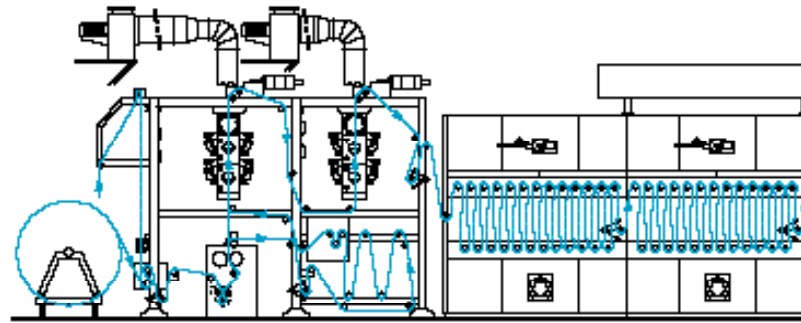
right: **Pad-dry dyeing system for CEL and PES blend fabric articles**

Main elements: Padder (Babco-Flex) with air passage followed by IR radiation dryer (Seco-Rad), drying hotflue with subsequent cooling cylinder.



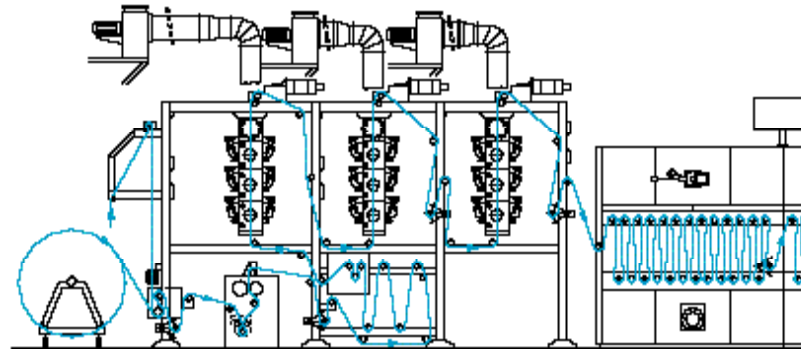
Pad-dry/thermosol dyeing system for drying and thermosoling in one passage or for CEL fabrics, for medium production volumes

Main elements: Padder (Babco-Flex) with air passage, IR radiation dryer (2 x Seco-Rad, 2 sections each), hotflue and thermo-chamber with subsequent cooling section.



Pad-dry/thermosol dyeing system for drying and thermosoling in one passage or for CEL fabrics, for high production volumes

Main elements: Padder (Babco-Flex) with air passage, IR radiation dryer (3 x Seco-Rad, 3 sections each), hotflue, thermo-chamber with subsequent cooling sections.



Pad-dry/thermosol dyeing system for CEL or PES/CEL blend fabrics, designed for intermediate storage or continuous operation with a pad-steam dyeing system

Main elements: Padder (Babco-Flex) with air passage, IR radiation dryer (2 x Seco-Rad, 2 sections each), drying hotflue, thermo-chamber with subsequent cooling sections.

