

Corona Treatment Station AV-R

Complete solutions for corona treatment of the inner and outer surfaces
of plastic pipes



The Corona Treatment Station AV-R



**Corona Treatment -
in-line with the extruder**

High Safety Standard

**For Pipe Diameters
from 90 to 1200mm**

The AV-R corona treatment station is designed to treat the inner and outer surfaces of plastic pipes during extrusion. The corona treatment allows optimum adhesion of printing inks to the outer surface, and of foam insulation to the inner surface of the pipe.

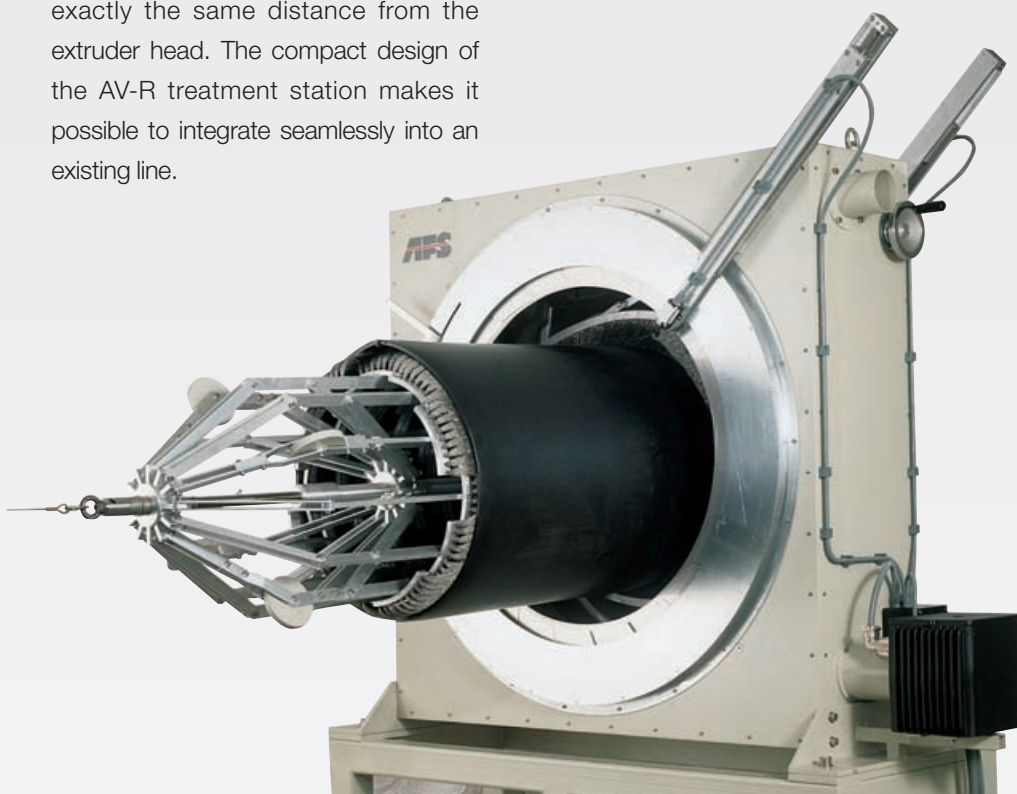
The grounded electrode on the inner side of the pipe is attached to the extruder head by means of a flexible stainless-steel cable, which holds the electrode at a constant distance from the head. The high-voltage outer electrode is installed at exactly the same distance from the extruder head. The compact design of the AV-R treatment station makes it possible to integrate seamlessly into an existing line.

Adjustable irises fitted to the inlet and outlet sides of the treatment station almost totally enclose the pipe. The irises prevent physical contact from being made with the high-voltage outer electrode, and are also necessary to ensure optimal ozone extraction. If an iris should be opened during production, sensor switches instantly shut off the corona.

The inner and outer electrodes are steplessly adjustable over a wide range, so that it is possible to treat a wide range of pipe diameters with one treatment station. For very small inside diameters, special metal brush electrodes are available from us.

The kinematic design of the electrode assemblies permits imperfect pipes with imperfect geometry (for example, from pipe deformities during start-up of the line) to pass through the treatment station without causing damage to the electrodes.

The spring-loaded inner electrode automatically deforms to coincide with the shape of the pipe, and automatically resumes to the correct shape when the deformity has ended. The outer electrode is constructed from long stainless-steel bristles, and can withstand several centimetres of pipe deformity without damage.

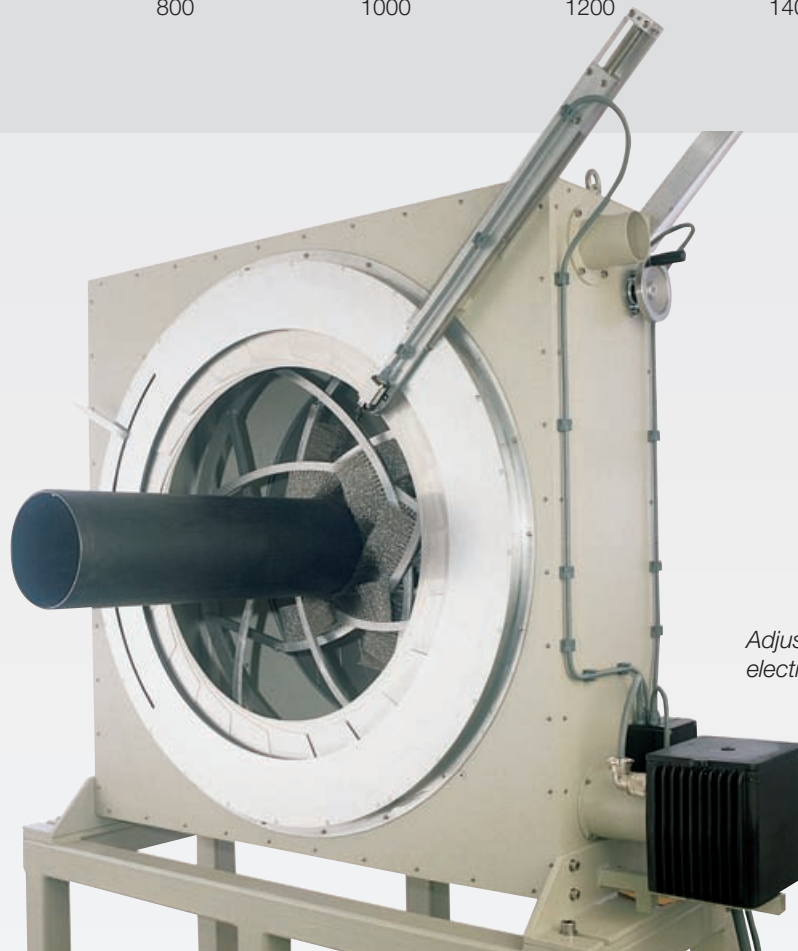


*General view, with
inner and outer
electrodes*

Corona-Station AV-R

	AV-R1	AV-R2	AV-R3	AV-R4	AV-R5
Treatable pipe diameter [mm]	90 bis 400	90 bis 600	100 bis 800	200 bis 1000	300 bis 1200
Max. diameter	630	830	1030	1230	1380
Dim. width [mm]	1520	1720	2070	2320	2520
height	1090	1290	1640	1890	2100
depth	620	620	620	620	620
Construction of components in ozone atmosphere	Aluminium and stainless-steel				
Electrical connections	Supplied from generator				
Inner electrode range, non-adjustable design	90 - 150 mm 150 - 200 mm 200 - 300 mm 250 - 400 mm				
Inner electrode range, adjustable design [mm]	AV-I1	AV-I2	AV-I3	AV-I4	AV-I5
	300	350	400	500	650
	bis 650	bis 800	bis 1000	bis 1200	bis 1400

AFS GmbH, 2003, We reserve the right to make technical modifications



Adjustable outer electrode



Further products:

- Corona treatment systems for printing and laminating machines, blown-film lines, cast-film and pipe extruders.
- Hot and cold-needle perforation machines
- Plasma-Jet[®]



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