

## Dust Collector For Fumes From HVAF Thermal Spraying

### ABB

ABB has invested in a development centre for new products and one new technology being employed is HVAF thermal spraying. The new thermal spray process is primarily used to improve the quality and lifetime of the new products being manufactured.

ABB always strives to improve their products to help improve the profitability and competitiveness of their customers.

ABB contacted Camfil Farr APC Nordic and invited them to give a technical presentation of their Gold Series dust collection equipment.

The scope of supply was for a complete turnkey extraction, filtration and ventilation system, including a heat exchanger to recover the waste heat in the exhaust air.

Camfil Farr APC Nordic needed a partner in the project and contacted YIT, one of Camfil Svenska's customers, who had the skills, knowledge and expertise to handle a project like this. Camfil Farr APC became a technical advisor to YIT, who made the final bid to ABB.

ABB accepted the proposals and YIT placed an order on Camfil Farr APC for the Gold Series GS10 dust collector, to collect the fumes extracted from the thermal spray booth.

The fans serving the dust collector and the heat exchanger are connected to a two speed control system.



During the thermal spraying operations, the fans run at full speed to remove the fume laden air from the booth. When the booth is in standby mode the fans run at a reduced speed to prevent the build up of any gases, such as propane and hydrogen in the booth.

The installation has been in operation since January 2010 and is working very well.

This installation is a pilot plant and ABB plan to install more systems when their product reaches the market place.

### Product Information

Product:	Gold Series® dust collector
Size:	GS10
Air Volume:	8,000 m <sup>3</sup> /h
Application:	Metal fume from HVAF thermal spray process
Customer:	ABB, Västerås, Sweden
Installation date:	January 2010

