



## Dust Collector For Weld Fumes

### KSMV

KSMV (Kristiansands Skruefabrikk & Mekanskisk Verksted AS) is based in the south of Norway and was established in 1918 by Otto Hansen. They occupy a modern well equipped workshop and employ 105 highly skilled workers.

The company has continuously developed, to become one of Norway's most advanced mechanical engineering workshops, serving both domestic and international customers in the off-shore market and other industries.

Quality, service and on time delivery are very important to satisfy the demands of this industry. KSMV decided to invest in a new extraction system to control welding fume and contacted Camfil FARR APC's partner in Norway, ITEK.

A design with a central dust collector, ductwork system and flexible extraction arms was presented to KSMV. They were impressed with the proposal and the high quality of the Gold Series collector and placed an order with ITEK.

The final design incorporates a Gold Series GS06 dust collector, complete with a top mounted fan, that is controlled by a variable speed drive and pressure sensors in the ductwork system. This makes the system fully automatic in operation.



When an operator opens or closes an extraction point the sensors detect the change in system pressure and adjust the fan speed to maintain the correct pressure and volume of air extracted. This control system ensures that the system runs at optimum efficiency at all times, saving energy.

After passing through the Gold Series collector, the cleaned exhaust air is blown into the factory ventilation system. Here it passes through a heat exchanger to recover the heat before leaving the building.

The combination of variable speed drive and heat recovery ensures the system's green credentials.

The system has been in operation since November 2009 and is working very well.

### Product Information

Product:	Gold Series® dust collector
Size:	GS06
Air Volume:	10,000 m <sup>3</sup> /h
Application:	Welding fumes
Customer:	KSMV, Kristiansand, Norway
Installation date:	November 2009

