

# Atlas Copco FuelXpert™

## Makes the impossible possible



## Average 10% better fuel consumption than our best competitors

Conventional systems based on pneumatic control steered engine speed and inlet without thinking about fuel economy. These systems have focussed on the stabilization of the regulating system, but have not looked at the optimal fuel consumption at each load. FuelXpert, with its electronic control module, regulates engine speed and air inlet with a view to optimizing fuel consumption for each working condition. Importantly when the air demand is lower than the capacity needs, the system ensures the right capacity for the application.

## How does it work?

FuelXpert is a combination of hardware and unique Atlas Copco proprietary software that makes for a quite unique result. Namely, a significant reduction in fuel use.

### Hardware

- Regulating valve
- Inlet throttle
- Regulating system

Atlas Copco Software that electronically measures

- Regulating pressure
- Engine speed

An added benefit is that it is now even easier to start in cold weather conditions, as the system can be started with a closed inlet valve, and be opened when air is required.

## The best just got better

Atlas Copco has always had the lowest fuel consumption when it came to running at full load, well now that superiority has been transferred to running speeds that are less than 100% load.

## Significant savings

FuelXpert gives on average, savings of 10% - and could even be higher in the middle load ranges.

		C13 LP				C13 HP			
		XAMS 546		XAHS 536		XRHS 506		XRVS 476	
Fuel consumption		with / without FuelXpert		with / without FuelXpert		with / without FuelXpert		with / without FuelXpert	
at 100% FAD	US gal/h	15.5	15.5	18.3	18.3	19.4	19.4	19.4	19.4
at 75% FAD	US gal/h	12.3	14.3	14.4	16.7	14.8	17.3	14.9	17.3
at 50% FAD	US gal/h	10.3	11.8	12.5	14.5	12.0	14.3	12.2	14.6
at 25% FAD	US gal/h	9.1	9.5	11.5	12.0	9.7	10.2	10.2	10.7
at unload	US gal/h	8.2	8.2	10.1	10.1	8.2	8.2	8.9	8.9
specific fuel consumption at full load	lbs/1000 cu ft	1.6	1.9	2.1	2.3	1.6	1.9	2.1	2.3

		C9 LP							
		XAMS 496		XATS 456		XAHS 426		XAVS 396	
Fuel consumption		with / without FuelXpert		with / without FuelXpert		with / without FuelXpert		with / without FuelXpert	
at 100% FAD	US gal/h	14.2	14.2	13.9	13.9	14.2	14.2	14.2	14.2
at 75% FAD	US gal/h	11.6	13.2	11.5	13.0	11.8	13.4	11.8	13.4
at 50% FAD	US gal/h	10.2	11.6	10.2	11.5	10.5	11.9	10.7	12.0
at 25% FAD	US gal/h	9.2	9.4	9.2	9.5	9.6	10.0	9.8	10.2
at unload	US gal/h	8.1	8.1	8.2	8.2	8.5	8.5	8.7	8.7
specific fuel consumption at full load	lbs/1000 cu ft	1.6	1.9	2.1	2.3	1.6	1.9	2.1	2.3

		C9 HP					
		XRS 396		XRHS 366		XRVS 336	
Fuel consumption		with / without FuelXpert		with / without FuelXpert		with / without FuelXpert	
at 100% FAD	US gal/h	14.1	14.1	14.0	14.0	14.0	14.0
at 75% FAD	US gal/h	11.3	12.9	11.3	12.9	11.4	12.9
at 50% FAD	US gal/h	9.4	10.7	9.5	10.9	9.8	11.2
at 25% FAD	US gal/h	7.5	8.1	7.9	8.1	8.3	8.6
at unload	US gal/h	6.2	6.2	6.6	6.6	7.2	7.2
specific fuel consumption at full load	lbs/1000 cu ft	1.6	1.9	2.1	2.3	1.6	1.9

Note: acc. to ISO1217 ed. 3 1996 annex D