

Energy Saver ES-90



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PLYMOVENT[®]
INTELLIGENT PROCESS VENTILATION™

PlymoVent ES-90 is one of the most profitable investments you can make when it comes to welding fume extraction. Be intelligent – save between 80-90% of your energy bill. In many cases the Energy Saver will have a payback time of less than a year! The cost of heating extracted air is several hundred \$'s per extractor. With the Energy Saver this cost will be a mere 10-20% of this sum, that is just \$20-\$40 per extractor per year. The electric power consumption will also be reduced by 80-90 %.

Saves up to 90% of heating costs on systems with individual fans

PlymoVent Energy Saver ES-90

with new low amp sensor.

Large volumes extracted – but only when required

The more fumes an extractor can take, the more efficient it is. A large volume of air, such as 650 CFM/1000 m³/h, guarantees that pollutants are effectively extracted without great concern about the exact positioning of the hood. By using Plymo-Vent ES-90 the total volume of air is reduced to approximately 10-20% of the actual extracted air volume (588 CFM/1000 m³/h during operation gives a working day average of 60-115 CFM/100-200 m³ extracted air per hour, as the fan is only running when it's needed.)

Pay only for effective work time

The explanation is simple but brilliant. Using the ES-90 extraction only takes

place when welding is actually being carried out. Practical surveys have shown that actual arc-time is only 5-20% of the total working hours. The ES-90 starts the extraction fan automatically when welding starts and stops it after welding has stopped. This gives a dramatic saving of energy and therefore money! Your extractor is working at its most efficient – as you would naturally expect.

Build your own fully automatic system

There are no limits with the PlymoVent Energy Saver. You can size and build your own system exactly to suit the requirements of your work place. That level of freedom of choice - another advantage of the ES-90.

Just add Control Unit M-1000 for

the central duct propeller fan (see page 50), and your system will be fully automatic.



PlymoVent offers you a clean working environment at the right price.

TECHNICAL DATA

Power input: 115/208/230/460/575 V, 1 phase, 60 Hz.

Outlet: Contactor for fans up to 5 Hp is built-in, must be fitted with relevant motor overload (not included - order separately).

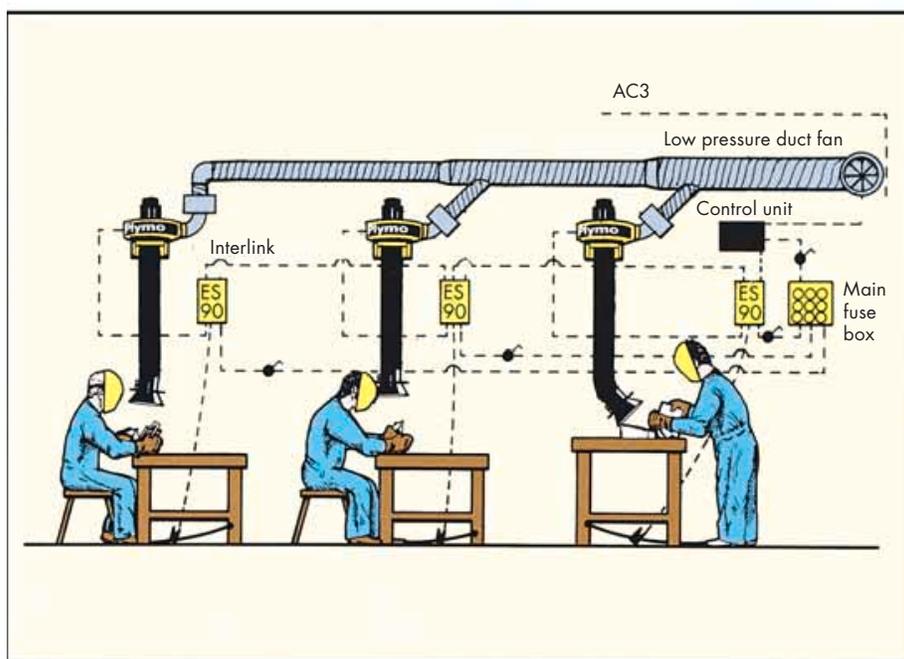
Sensitivity: The sensor reacts to alternating current (A.C.) and direct current (D.C.) down to 15 amps – when attached to welding cable. For TIG welding under 30 amps and gas welding, light sensor LS-12 should be used instead of the inductive sensor clamp. LS-12 is available as an accessory.

Automation: Adjustable over-run time - 7 seconds to 6 minutes. Manual override – standard.

Prod. no: **ES-90-005** Energy Saver for automatic start/stop of the fan with built-in transformer 75 VA-24V for halogen lamp cartridge for 1 work place.

Motor-overloads: Overloads for installation inside electrical control boxes like ES-90, M-1000, SA-24 and control boxes for wall mounted filters.

Prod. no: **MS-1.0/2.9** Overload, 1.0-2.9 Amp.
MS-3.7/12.0 Overload, 3.7-12.0 Amp.
MS-12.0/32.0 Overload, 12.0-32.0 Amp.



Central System: 3 x LM-2 with individual fans and Energy Savers connected to M-1000 Control Unit and ductwork fan.