

IVEC™ PROJECT WORK LIST

1. EXISTING SYSTEM EVALUATION

- Air velocity measurement at main duct
- Air velocity measurement at each outlet
- Negative pressure drop at each outlet
- CFM calculation on the computer
- Projected savings based on system calculations

2. POWER CONSUMPTION, MOTOR

- Motor power(kW, kVA), voltage, current, power factor measurement
- Motor evaluation, manufacturer, insulation evaluation, efficiency, how old is motor)
- Motor compatibility with inverter
- Overload protection evaluation, control box evaluation
(control of collector, how they start and stop system)
- Power system evaluation (voltage, phase, grounding)
- Power utility company: utility account, rate schedule, electric usage, electric peak
- Incentive evaluation: large or small user, incentive availability
- Working hours evaluation: per day, per week, per year, holidays, inventory, irregularity...

3. LAYOUT OF THE EXISTING SYSTEM

- Layout of the existing facility (computer CAD drawing)
- Workstation numbering, outlets layout
- Fan placements, power distribution placement
- Duct system layout

4. PROJECT OF IVEC™ SYSTEM

- Changes in ducting system (YES/NO), layout, eliminating some fans proposals
- Placement of new equipment panel(s), gates, sensors, cables)
- Cable list, length of cables calculations, placement of cables
- Placement of negative pressure sensors
- Selecting the model of control and options
- Sensor types selection, how they will be installed, connection to workstation
- Selecting blast gate types for each workstation, placement of the blast gates
- Existing blast gate evaluation
- At machinery: based on existing documentation determine connection required
- Power installation schematic diagram
- Low voltage installation schematic diagram
- Type of mechanical lift needed for installation (scissor type, other type)
- Working schedule: holidays, weekends, permission to work over time
- Computer calculation for IVEC™System setup
- IVEC™ System maintenance table
- Contact persons at customer site (work permission, electrical, facility manager)

5. Quotation

- Cost of power installation
- Cost of low voltage installation
- Cost of blast gate installation
- Cost of other services
- In case of ducting change, cost evaluation
- Cost of the hardware - control, blast gates, sensors
- Quotation, based on real cost
- Savings calculation based on real numbers
- Power company incentive calculation