

# *PumpSmart*



## PumpSmart®

Reduce environmental impact and energy consumption through smart control & protection



# PumpSmart

## INTELLIGENT EFFICIENCY ENABLES A HOLISTIC APPROACH TO ENERGY SAVINGS AND REDUCED ENVIRONMENTAL FOOTPRINT

VFDs are an easy way to customize the amount of work done by a motor and pump to the actual load. The industry award-winning and patented pump control logic of the PumpSmart drive delivers real-time control and protection of your pumps to reduce energy consumption. The PumpSmart pump protection algorithms reduce wear and tear on your process systems to extend equipment lifetimes and reduce unplanned repairs by protecting against process upsets.

Utilize the power of the PumpSmart to easily realize energy savings and reduce your environmental impact.

Pump systems can account for 40% of industrial energy usage today. Optimizing pump systems by installing PumpSmart drives can reduce energy consumption in your facility by 30-80%. Combining energy efficiency tax incentives and utility rebates, returns on investment for the PumpSmart can be as little as 6 months.

## USE EVERY WATT EFFICIENTLY

- Built-in energy efficiency features cut down energy usage.
- Save up to 80% of energy usage by reducing speed to match process requirements.
- Keep track of actual energy efficiency and flow economy.

## SUPPORT YOUR ECO-STRATEGY

- High efficiency and reduced CO2 emissions supporting your eco-strategy.
- Easily calculate possible energy savings and emissions savings with the PumpSmart calculator.

**• Save an average of 180 metric tons of CO2 every year for a 200 hp pump with a PumpSmart drive.\***

\*Assuming 30% energy savings by using a PumpSmart drive.

PumpSmart drives saved approximately 34,242 metric tons of CO2 emissions last year.\* That's the equivalent of:



- Taking 7,447 passenger vehicles off the road



- Carbon sequestered by 41,953 acres of US forests



- 566,199 tree seedlings grown for 10 years



- 4,124 homes' energy usage



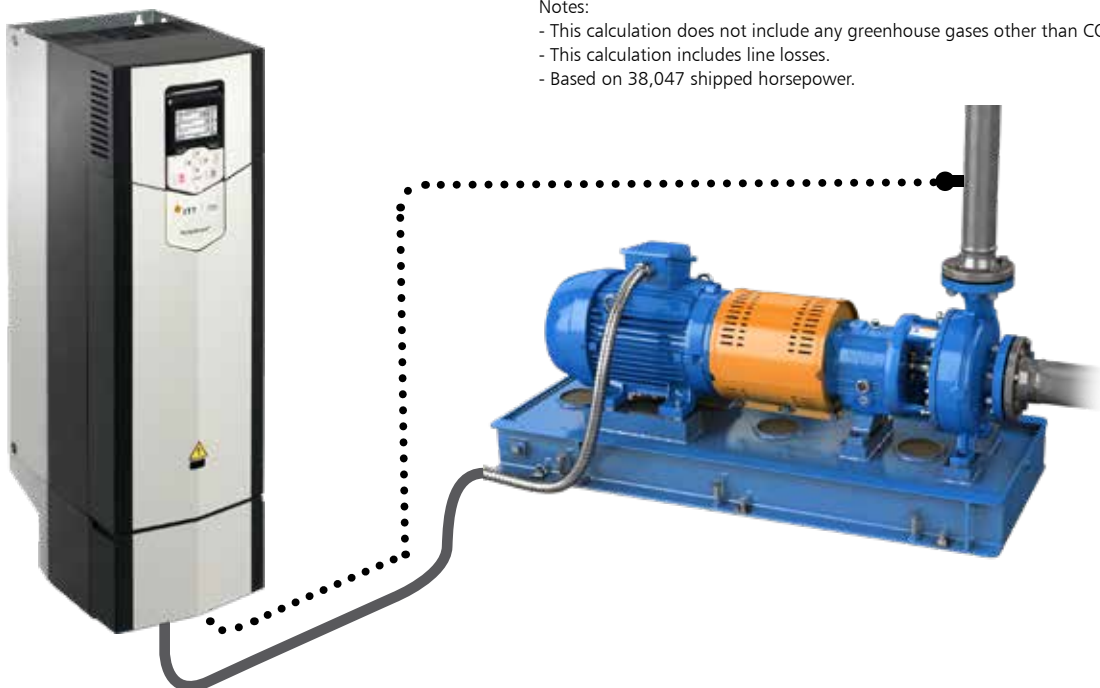
- Recycling 11,647 tons of waste instead of landfilling

\*Data based on ratings of PumpSmart drives shipped in 2020, assuming 30% energy savings by using a PumpSmart drive.

- Based on  $7.09 \times 10^{-4}$  metric tons CO2/kWh from EPA (2020) AVERT, U.S. national weighted average CO2 marginal emission rate, year 2019 data. U.S. Environmental Protection Agency, Washington, DC.

### Notes:

- This calculation does not include any greenhouse gases other than CO2.
- This calculation includes line losses.
- Based on 38,047 shipped horsepower.



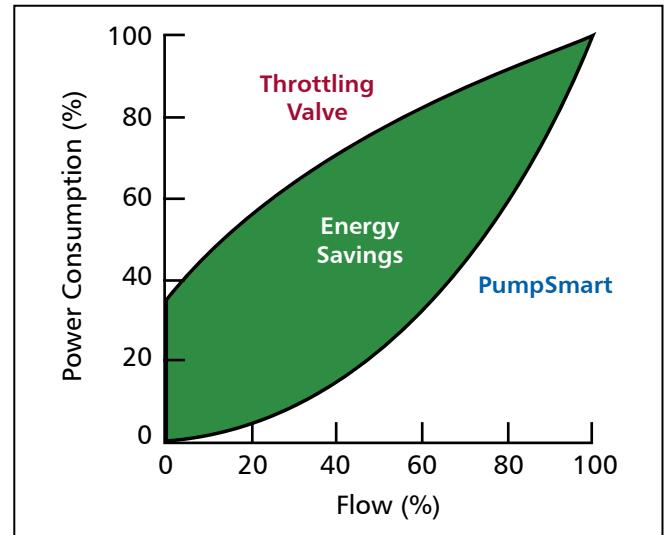
# PumpSmart

## REDUCE WASTE

- Improve production quality and cut down waste.

## REDUCE ENVIRONMENTAL IMPACT BY MAXIMIZING EQUIPMENT LIFE

- Rotating equipment will last longer and have less downtime due to maintenance when controlled by the PumpSmart, ensuring optimal application speed and protecting against common pump and motor failure modes.
- PumpSmart's patented pump protection algorithms, developed & tested by pump experts, accurately identify adverse conditions (such as dry run, low flow recirculation, run-out) and act to protect your equipment.
- Half of all pumps in industry are operating outside the preferred operating range. PumpSmart knows where the pump is operating on the curve and can automatically adjust its operation to the preferred range. This extends equipment life and increases your Mean Time Between Failure.
- Extend equipment life and lower needed maintenance, resulting in reduced lifecycle costs.
- Reduce environmental impact by having longer equipment life and not manufacturing, shipping and installing replacement rotating equipment as often.



Amount of Energy Saved by Using PumpSmart versus a Valve to Control Flow.





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