CONSUMPTION ANALYSIS BETWEEN OPERATING WITH A 35Q (130 HP) VEHICLE WITH HYDRAULIC TRANSMISSION AND PTO VACUUM TANK AND OPERATING WITH A VEHICLE WITH ELECTRIC VACUUM TANK

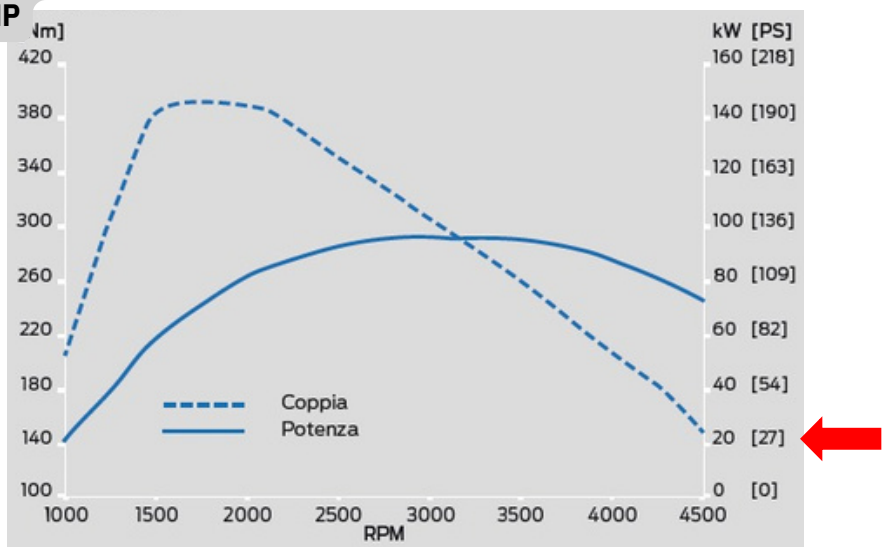
Savings analysis on fuel consumption performed between a 35 Q- 130 HP vehicle with hydraulic transmission and PTO vacuum tank, where during cleaning operations the vehicle must always remain ON, and between a vehicle with Electric vacuum tank (model SST-304 Compact-Electric or SST-304 Standard-Electric) where instead, during cleaning operations, the vehicle can stay OFF.

The following calculation is made on the basis of 25 toilets cleaned per day, 22 days per month, 11 months per year:

- A 35:C13 consumes 170 grams of diesel per hour per horsepower absorbed
- The specific weight of diesel is 0.835 grams
- 170 g :0.835 g= 0.204 L consumed per horsepower per hour
- At minimum (see graph) a 35:C13 consumes 27 HP
- 0.204 L/h x 27 CV of absorption = 5.50 Liters consumed per hour
- 5.5 L/h :60 minutes = 0.09 L consumed per minute
- To clean a toilet, it takes approximately 7 minutes
- 7 minutes x 0.09 L /min = 0.63 L consumed for cleaning a toilet
- 0.63 L x N.25 clean toilets per day x 22 days a month x 11 months a year =**3.811 L** consumed per year
- **€ 1.80** average diesel cost per liter x **3.811** Liters consumed per year

= € 6.860,00 OF DIESEL CONSUMED PER YEAR

HORSEPOWER ABSORPTION AT THE MINIMUM OF A 35Q - 130 HP



CONCLUSION:

- **SAVINGS OPERATING WITH A VEHICLE WITH ELECTRIC VACUUM TANK (SST-304-ELECTRIC)= € 6.860,00**
- **REDUCTION OF CO2 EMISSION INTO THE ENVIROMENT**