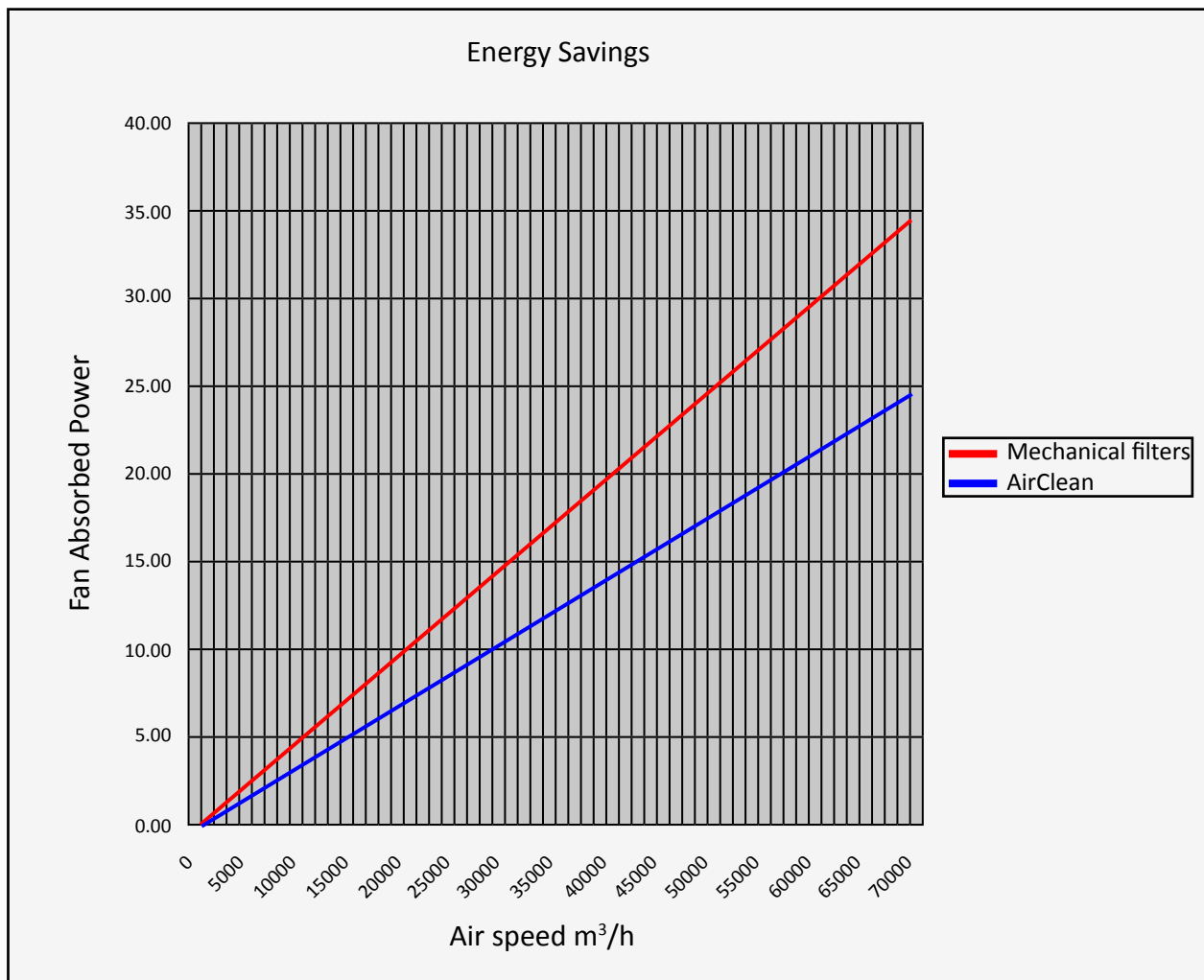




An additional and extremely important benefit of the AirClean system, is the energy savings due to less pressure drops of the electrostatic filters, compared with mechanical filters providing the same efficiency.

Roughly the benefit is 20% in energy savings when high efficiency mechanical filters are used with a total pressure loss of 300 Pa. But when H12/H13 are used with a total pressure loss of 480-500 Pa, the savings of the AirClean system can reach 30%.

Below a simulation with an air handling unit with a pressure loss of 690 Pa due to coils and various sections and the mechanical filters having a pressure loss of 210 Pa for the F type and 250 for the H type, compared with a total pressure loss of 124 Pa of the AirClean system as an alternative to F+H type filters.



The reason why there is such a difference in pressure loss between the systems depends on the space between collection plates in the electrostatic filters that are not generating significant pressure losses.

