GRUNDFOS ECADEMY

HEATING SYSTEMS IN COMMERCIAL BUILDINGS

CALCULATE SAVINGS WHEN USING FLOWLIMIT FUNCTIONALITY

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Quantifying savings when using intelligent pumps with FLOWLIMIT functionality

This value calculation quantifies the cost saved by making a pump throttling valve redundant, when you install Grundfos pumps with FLOWLIMIT functionality in your heating system.

Key questions and data points

Key questions		Value	In formula
?	What is the CAPEX of a DN40 pump throttling valve?	0.00 €	*CAPEX*
?	What the cost of installing and commissioning a pump throttling valve?	0.00 €	*Install_cost*
?	What is the annual cost for service & maintenance of the throttling valve?	0.00 €/year	*S&M_cost*
?	What the flow across the pump throttling valve?	0.00 m³/h	*Q*
?	What is the pressure loss over the pump throttling valve?	0.00 mwc	*mwc*
?	What is your cost per kWh electricity?	0.00 €/kWh	*kWh_price*
✓	Assuming the throttling valve has a lifetime of 20 years	20 Years	*20yr*

Value calculation

Annual pump power spend due to pump throttling valve = ((Q * mwc* 2.72) / 1000) * 8760	0.00 kWh	*kWh*
Savings = CAPEX + Install_cost + (S&M_cost * 20yr) + (kWh_price * kWh * 20yr)	0.00 €	*Savings*

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