



Energy Saving HVAC

HYDROVAR - THE BEST SOLUTION FOR AN EFFICIENT HVAC SYSTEM

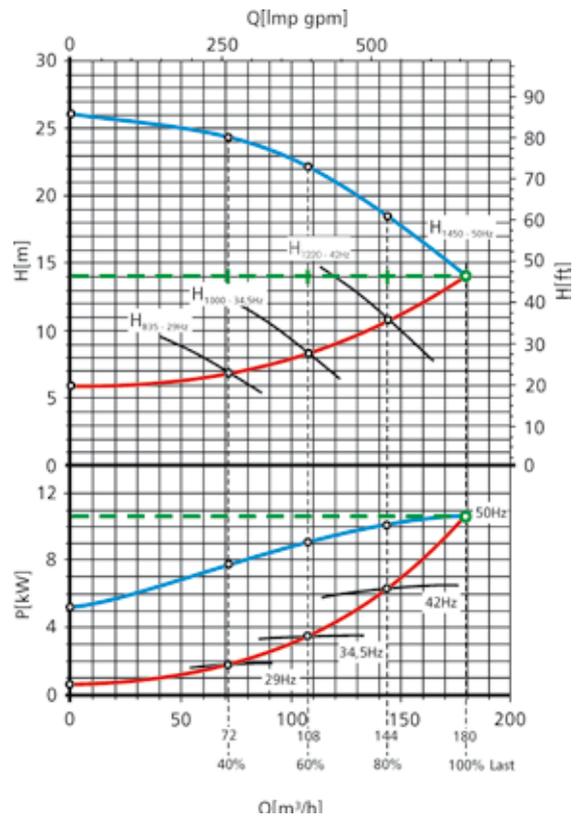
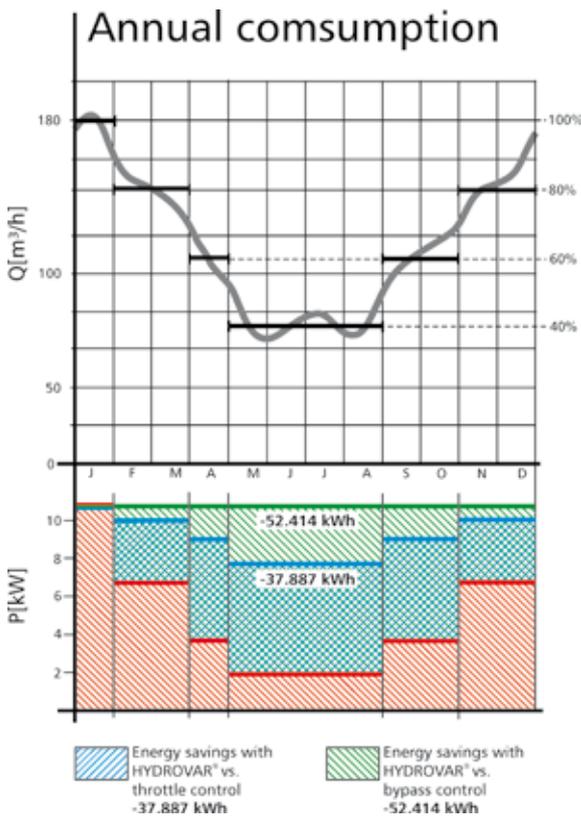
xylem
Let's Solve Water

Energy savings

Energy is the largest cost of running any pump, with the biggest potential savings. The HYDROVAR works with your system to make it efficient. This intelligent variable speed drive controls the pump exactly according to the current requirements of the customers.

Compared to an unregulated system, the HYDROVAR saves up to 70% of the energy consumption (as tested by TÜV Austria, vogw0312-PIR-ZR). The smooth regulation at optimal operation increases not only the efficiency but also the life of the system's components and reduces maintenance costs.

Energy saving example: Pump station 125 LMHR 250 / 11 kW



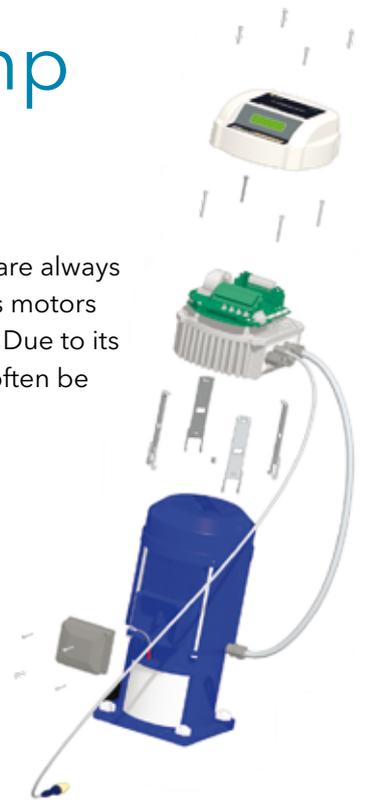
Months	4	3	4	1	Per year	
Operation hours	2.920	2.190	2.920	730	8.760	[h]
Flow rate	40 %	60 %	80 %	100 %		[% max]
Flow rate	72	108	144	180		[m ³ /h]
Power consumption / Bypass control	10,7	10,7	10,7	10,7		[kW]
Energy consumption / Bypass control	31.244	23.433	31.244	7.811	93.732	[kWh]
Power consumption / Throttle control	7,7	9	10	10,7		[kW]
Energy consumption / Throttle control	22.484	19.710	29.200	7.811	79.205	[kWh]
Power consumption HYDROVAR	1,9	3,7	6,7	11,1		[kW]
Power consumption HYDROVAR	5.548	8.103	19.564	8.103	41.318	[kWh]

Retrofitting - the sensible pump upgrade

Old unregulated pump systems work inefficiently. Regardless of the demand the pumps are always running at full speed, wasting energy. As the HYDROVAR fits to all standard asynchronous motors nearly all existing systems can be upgraded. No hydraulic changes are usually necessary. Due to its simple installation and the big energy savings a pay back time of less than one year can often be achieved.

New pump generation

For best results we recommend replacing older pumps by the new generation of energy efficient Xylem pumps. The complete system, pump and HYDROVAR can be delivered factory set and ready for installation.



HYDROVAR advantages	<i>Unregulated systems</i>
Energy savings Up to 70% with HYDROVAR variable speed control	<i>Energy waste regardless of the actual flow requirement, the pump is permanently running at full speed</i>
Long life For all system components due to the smooth operation at optimal operation point	<i>As the pump is running outside the optimum operation point, the system components are unnecessarily stressed</i>
Quiet running As flow control valves are not needed	<i>System noise can occur due to high differential pressures at the control valves</i>
Perfect comfort Always constant pressure independent of varying flow rates	<i>No comfort - the pressure changes according to flow rate</i>
Safety HYDROVAR provides hydraulic and electric protections to protect the drive and system components	<i>For safety and protection requirements additional components are required</i>
Integrated MODBUS® interface For communication with the central building control systems (BMS)	<i>For communication additional components are required</i>

For further information about HYDROVAR and our new high efficient pump range please contact our customer service.

Xylem |'zīləm|

- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

We're 12,000 people unified in a common purpose: creating innovative solutions to meet our world's water needs. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. We move, treat, analyze, and return water to the environment, and we help people use water efficiently, in their homes, buildings, factories and farms. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise, backed by a legacy of innovation.

For more information on how Xylem can help you, go to xylem.com.



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