

HYDRAULIC PUMP UNIT WITH
INVERTER (VWVF)



Pump unit HI



EXCELLENCE IN COMPONENTS

Wittur Center of competence for hydraulics presents pump unit HI. Ideal for new installations and modernizations (SNEL), Wittur HI secures a reduction of electricity consumption up to 48.8% compared to traditional pump units.

Thanks to highly innovative content, the HI pump unit is the best in class for comfort and energy save. Designed, tested and guaranteed by Wittur, pump unit HI is easy to be installed; thanks to integrated hand terminal the setting of parameters is fast and simple.

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Technical information

Pump unit technology			Traditional Mechanic	Electronic flow control	Inverter with rated speed	Inverter with rated power
Lift Rated load		kg	330			
Single travel' s lenght		m	8			
Cylinder rod diameter		mm	90			
Pump unit oil tank volume		l	110			
Pump unit oil delivery		l/min	125			
Pump unit motor power		kW	5.9	5.9	5.9	4.7
Pump unit plate Cos Φ			0.8	0.8	0.98	0.98
Starting current		A	90	89	17	14
Pump unit oil cooler optional			Not installed			
Consecutive up&down travels	Full load		<110	<130	<180	>200
Rated current	Empty	A	17	17.3	17	14
	Full	A	23	22	23	18
Uptravel speed	Empty	m/s	0.6	0.63	0.63	0.63
	Full	m/s	0.6	0.62	0.62	0,5*
Downtravel speed	Empty	m/s	0.63	0.63	0.63	0.63
	Full	m/s	0.63	0.63	0.63	0.63
Noise	Up	dB	58	65	58	58
	Down	dB	58	67	56	56
Travel energy (100 travels)		kWh	6	5.4	4.2	4.2

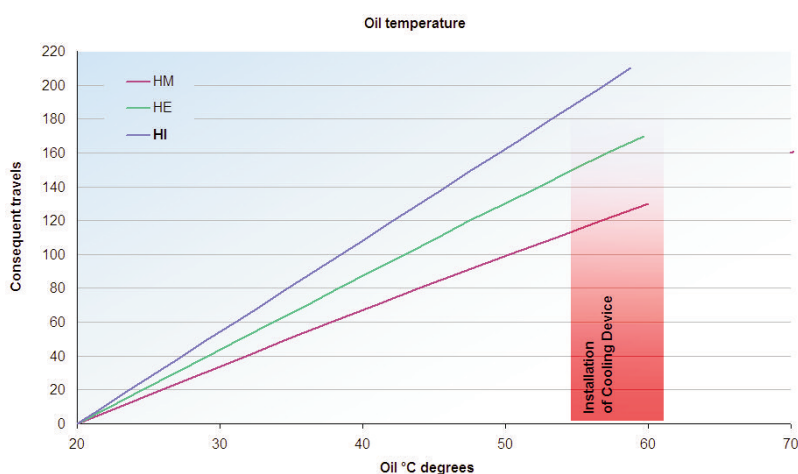
* Uptravel: 1 person 0.52 m/s; 2 people 0.50 m/s; 3 people 0.45 m/s; 4 people 0.40 m/s;

- New block HI with integrated hand pump
- Up and Down travel managed by inverter
- Open loop system without encoder
- Up to 1 m/s rated speed
- Floor approach is precise not depending on the load
- Exclusive software
- Inspection and re-levelling speed are adjustable
- Intermediate floors with specific speed
- Ready for HDU: the new device in conformity with EN81-2:1998+A3
- Available with pumps from 55 to 380 l/min and motors from 3.3 to 36.8 kW

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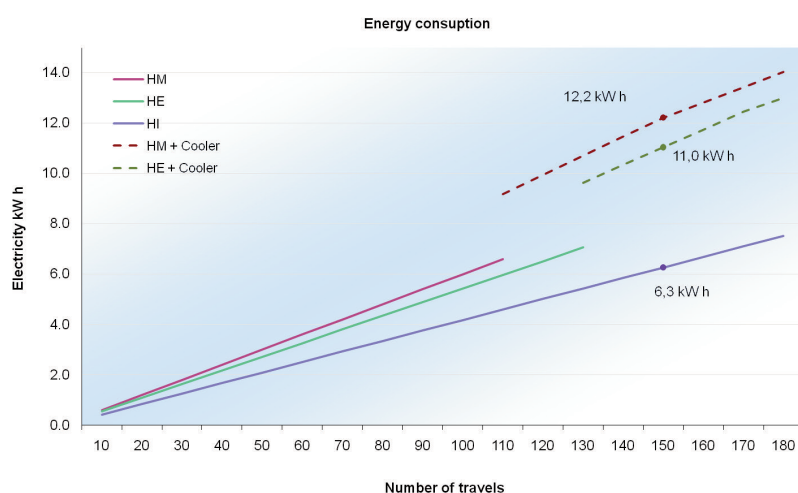
Pump unit HI

Wittur HI is suitable for every kind of installation



- HI achieves, with constant rated speed at any load, energy saving up to 48.8% compared to traditional pump unit.

Further to the above, opposite to limited speed reduction, HI asks for 20.3% less power from network, that allows cut of fixed cost depending on supplier for electricity.



Wittur HI allows:

- Up to 48,8% energy saving (12.2 kWh instead of 6.9 kWh after 150 travels)
- Up to 20.3% reduction of power request (4.7 kW motor instead of 5.9 kW)
- Best travel comfort with the less noise
- Cooling device is avoided
- Soft starter is avoided
- Starting current is cut definitively
- Power factor is adjusted perfectly ($\cos \varphi > 0,98$)
- Microlevelling device is avoided



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