

**NEW HYDROVAR®
WATERCOOLED**



Hydrovar® Watercooled and Teknospeed variable speed electric pumps with constant pressure control



Lowara







ITT Industries
Engineered for life

PRODUCT RANGE

TECHNICAL DATA (HYDRAULIC PERFORMANCE AT 50Hz)






HYDROVAR® WATERCOOLED VARIABLE SPEED ELECTRIC PUMPS: **SINGLE-PHASE POWER INPUT** 1x(230±15%) V 50/60Hz

The supply includes electronic gauge, power cable and plug, and motor cable

HYDROVAR® WATERCOOLED	PUMP TYPE*	P Nom [kW]	I Nom [A]	Q1 [l/min]	Q2 [l/min]	H1 [m]	H2 [m]	
	HVW/HMZ HORIZONTAL MULTI-STAGE WITH PLASTIC IMPELLERS							
		HVW/2HM5ZT	0.55	3.7	20	70	40.0	16.5
		HVW/2HM7ZT	0.75	5.1	20	70	50.8	20.5
	HVW/BG SELF-PRIMING WITH AISI 304 STEEL IMPELLERS							
		HVW/BG7	0.75	5.1	20	60	38.1	25.6
		HVW/CA-CEA WITH AISI 304 STEEL SINGLE/TWIN IMPELLERS						
		HVW/CEA80/5	0.75	5.1	30	100	30.0	21.0
		HVW/CA70/33	0.75	5.1	30	80	38.8	23.9

TEKNOSPEED VARIABLE SPEED ELECTRIC PUMPS: **SINGLE-PHASE POWER INPUT** 1x(230±10%) V 50/60Hz

The supply includes a pressure transmitter, a power cable with plug and a motor heat probe (PTC).

TEKNOSPEED	PUMP TYPE*	P Nom [kW]	I Nom [A]	Q1 [l/min]	Q2 [l/min]	H1 [m]	H2 [m]	
	TKS/HMZ HORIZONTAL MULTI-STAGE WITH PLASTIC IMPELLERS							
		TKS/4HM4ZT	0.45	3.0	40	120	19.3	7.6
		TKS/4HM5ZT	0.55	3.5	40	120	28.6	11.5
		TKS/4HM9ZT	1.1	6.8	40	120	49.9	21.2
	TKS/BG SELF-PRIMING WITH AISI 304 STEEL IMPELLERS							
		TKS/BG11	1.1	6.8	20	70	45.8	30.3
		TKS/CA-CEA WITH AISI 304 STEEL SINGLE/TWIN IMPELLERS						
		TKS/CEA120/5	1.1	6.8	60	160	28.2	17.3
		TKS/CA70/44	1.1	6.8	30	80	49.5	34.0
	TKS/SV VERTICAL MULTI-STAGE WITH AISI 304 STEEL IMPELLERS							
	TKS/SV206F07T	0.75	4.9	20	70	56.0	22.0	
	TKS/SV208F11T	1.1	6.8	20	70	75.0	30.0	
	TKS/SV404F07T	0.75	4.9	40	133	34.0	10.0	
	TKS/SV407F11T	1.1	6.8	40	133	59.5	18.0	

For details about the materials of the pump components, please see the General Catalogue.

*Frequency converter connected to a three-phase pump with a 230 V delta connection

CONSTANT PRESSURE CONTROL

HYDROVAR® WATERCOOLED (up to 0.75 kW) and **TEKNOSPEED** (up to 1.1 kW) pumps meet the needs of every residential application and guarantee constant pressure. The pumps are controlled by a frequency converter that modulates rotation speed as required.



USER COMFORT

- **Constant pressure at your outlet.**
No more temperature variations when using water at home (the mixture of hot and cold water does not change even if other taps are opened).



SILENT RUNNING

- **Peaceful sleeping with Lowara variable speed pumps.**
The motors work at variable speed and consequently have a reduced noise level.



RELIABILITY

- **Pump protection.**
The HYDROVAR® WATERCOOLED and TEKNOSPEED systems are both designed for the installation of a float for protection against running dry. The HYDROVAR® WATERCOOLED model also vaunts a built-in "Minimum pressure threshold" protection that stops the pump whenever no water is present.
In this way, the pump is also protected against operating out of range.
- **Optimum hydraulic circuit operation.**
Whenever working with a gas burner, the constant pressure provided also optimises the operation of the heating system.



• Needs limited space?
Large pressure vessels are no longer needed for control of the pumps



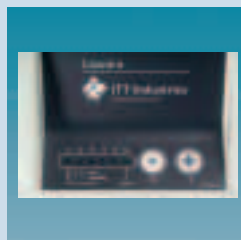
ENERGY SAVING

- **The pump pays for itself in a very short time.**
With the new frequency converter, the pumps only consume the power that is strictly necessary.



EXTENDED PUMP LIFE-TIME

- **Minimum maintenance.**
The variable speed motor reduces mechanical stress on the pump components and water hammering during stopping.



QUICK AND EASY INSTALLATION

- **Connect and go!**
Both TEKNOSPEED and HYDROVAR® WATERCOOLED pumps are completely pre-set by the Manufacturer. The user is only required to make the electric connection using the power supply plug provided and to set the desired pressure (by potentiometer for the TEKNOSPEED; by keyboard for HYDROVAR® WATERCOOLED models).

ACCESSORIES

HYDROVAR® WATERCOOLED



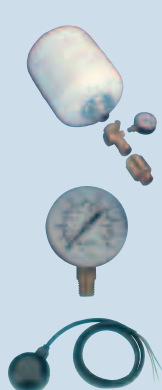
HYDROVAR® WATERCOOLED HYDRAULIC KIT

- For horizontal pumps:
HVW/HMZ, HVW/BG, HVW/CEA, HVW/CA
- Includes: 8 liter hydrotube, union tee, and non-return valve

FLOAT SWITCH

- With 1.5 metre long cable.

TEKNOSPEED



TEKNOSPEED HYDRAULIC KIT

- For horizontal pumps:
TKS/HMZ, TKS/BG, TKS/CEA, TKS/CA
- Includes 8 litre Hydrotube, Pressure gauge, 5-way connector, Check valve, Pipe extension

PRESSURE GAUGE

- Pressure range (0±10 bar)
- Inlet union 1/4"

FLOAT SWITCH

- With 1.5 metre long cable.

