



Snow Making Solutions

If Old Mother Hulda won't come out and play...

Machine-generated snow differs from natural snow primarily in that the snow production takes place using technical means at an accelerated rate.

The "snow components" are merely water and air.



The machine-produced "white snow" is thus, of course, naturally pure and of high quality.

A machine-produced snow blanket of 20 cm is equivalent in its consistency to a natural snow layer of approx. 50 cm.

...Xylem is more than happy to help.

With the invention of the snow cannon that emerged as a byproduct from a series of tests that took place at the end of the 1940's in the aeronautical industry to simulate freezing on jet engines and the first "compressed air snow cannon" in the 1950's, it wasn't until the 1980's that the first larger pump stations were built for artificial snow production.

The Ernst Vogel pump factory, a pioneer at that time in the pumps sector (just about 70 years after Ernst Vogel invented and patented the control equipment for multistage pumps), delivered the first pump units and built them immediately thereafter at the branch factory in Wels as one of the leading manufacturers of complete systems, including pipework, fittings and the electrical system.

Thanks to the branch office in Innsbruck, the first systems, large by the standards prevalent at that time, were produced in Westendorf, Nauders, Hochsöll, Lienz, Kappl, and Steinplatte Waidring, to highlight just a few of these. Even in the Carinthia region, there were always large projects in Gerlitze, Nassfeld, etc. With the entry of cannon manufacturers who

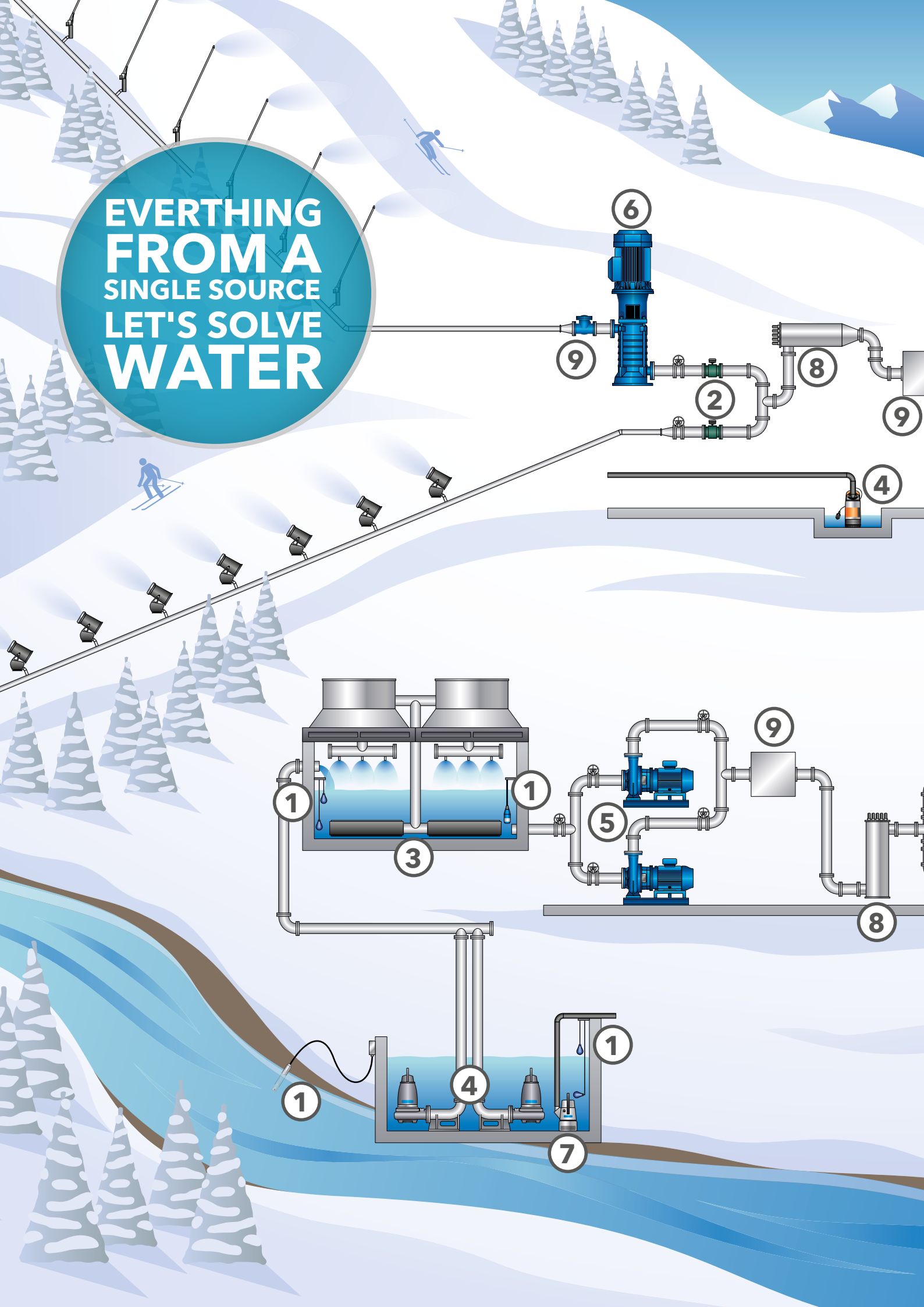
had sprung up in the meantime and the rising number of system manufacturers, the former Ernst Vogel pump factory withdrew to its core business, also operating as the water technology Group ITT Industries: The manufacture and sales of pumps and their accessories and UV systems for locations such as Kitzbühel, Sölden/Ötztal, Zell am See, Planai, Reiteralm, Serfaus and the entire Ziller valley, but also for numerous ski regions abroad in Germany, Poland, the Czech Republic, and all the way to Macedonia.

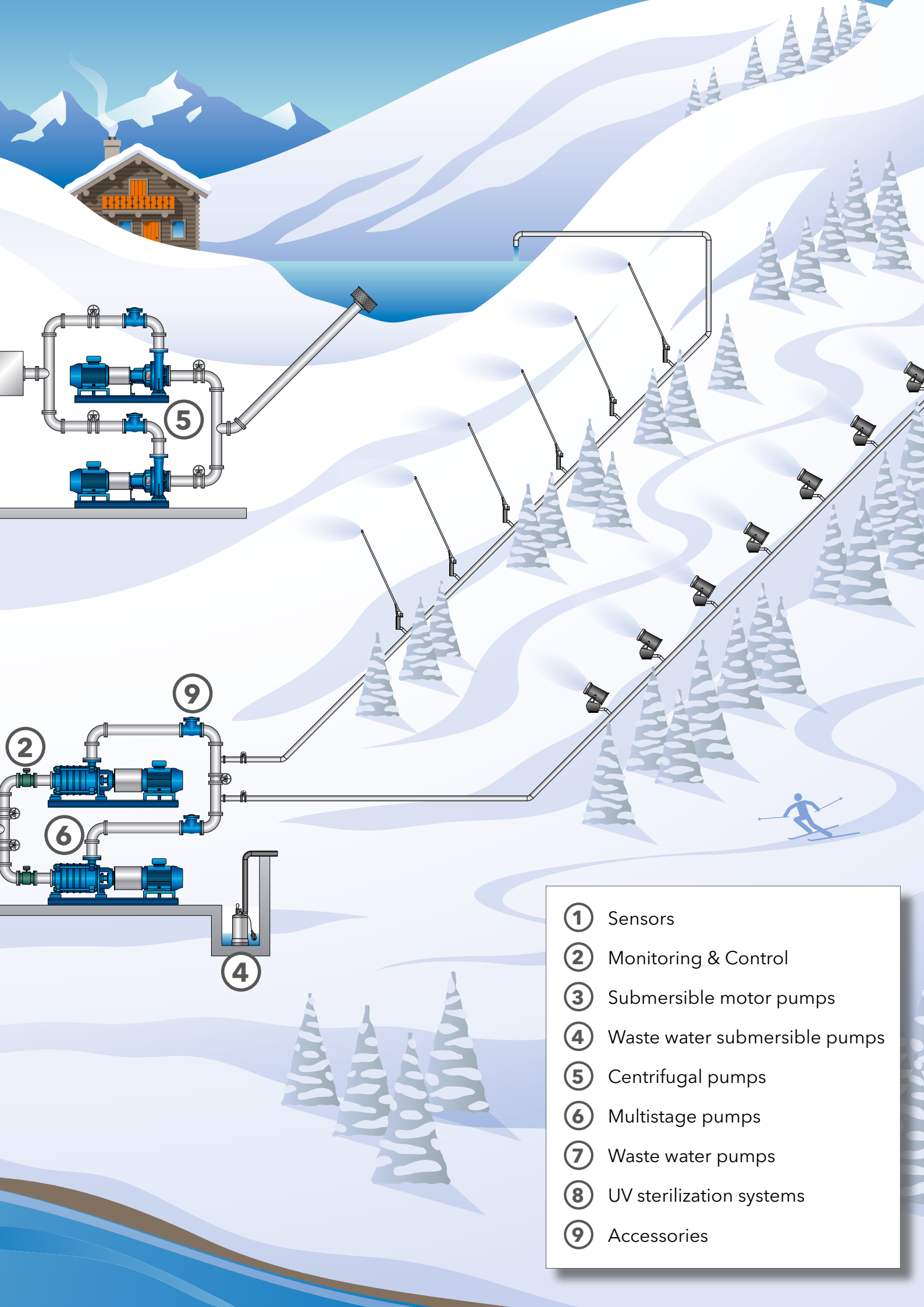
With more than 400 ski regions in Austria, about 70% of which are equipped with snow-producing systems, this means a share of approx. 40-50%.

With several years of experience in the snow-making business, we are by your side and ready to assist you as consultants for designing pumps for stream and pond removal, cooling tower supply, filters for preliminary and main pumps, and for UV systems.

The roots of several specialists come together into one complete work in order to be able to cover all fields of the water circuit.

EVERYTHING FROM A SINGLE SOURCE LET'S SOLVE WATER





- ① Sensors
- ② Monitoring & Control
- ③ Submersible motor pumps
- ④ Waste water submersible pumps
- ⑤ Centrifugal pumps
- ⑥ Multistage pumps
- ⑦ Waste water pumps
- ⑧ UV sterilization systems
- ⑨ Accessories

Sensors.

ENM-10/ENM10 EX

Float switch with in-built NC/NO circuit

Available with 6/13/20/30/50 m connecting cable for various media densities



LTU401

Electronic pressure transmitter

Sensor with 4-20 mA, fast switch-on time and low supply voltage – suitable for battery operation, compact design for 1 inch pipe, durable and resistant to chemicals (pH 4-12).



LTU601

Electronic pressure transmitter

Robust and solid sensor with 4-20 mA output signal suitable for waste water, saline water and various industrial processes.



VisoTurb® 700 IQ

Optical turbidity sensor

- in accordance with the nephelometric principle according to DIN EN 27027 and ISO 7027
- Ultrasound cleaning system without any mechanical parts
- Extremely low maintenance
- Highly accurate factory calibration
- High level of operational security (Sensor check function)



Monitoring & Control.

MagFlux Flow meter



Accuracy	+/- 0.1 % of the measured value (System accuracy better than +/-0.25)
Power supply	24 V AC, 50/60Hz +/- 10 % 230 (115) V AC, 50/60Hz +/- 10 % 10-30 V DC
Communication	Modbus RTU mode
Temperature range	-20°...60°
Memory capacity	32 MB flash memory, 168,000 storage points including data, time and value
Connections	1x RS-485 Modbus RTU mode, 1x USB, 1.1 type mini B, female 1x for communication module
Analog output	1x active 4-20 mA, galvanically isolated, 12-bit resolution
Digital output	1x potential-free electromechanical relay 1x optically insulated MOSFET relay
Protection class	Terminal box IP68
Unique functions	5-line display to output graphics, integrated data logger

HY Smart External controller unit that contains all the functions and benefits of HYDROVAR control and can be combined with any commercially available frequency converter of any brand



Monitoring & Control.

HVL 2.015 - 2.022
HYDROVAR for
motor output from
1,5 - 2,2 kW



Motor output
Voltage input
Voltage output

1,5 - 2,2 kW
1~230VAC
max. 3xVin

HVL 4.015 - 4.220
HYDROVAR for
motor output from
1,5 - 22 kW



Motor output
Voltage input
Voltage output

1,5 - 22 kW
3~400V AC
max. 3xVin

Submersible motor pumps.

Z6
6" submersible
motor pumps

Heads up to
Flows up to
Power up to
Temperature
Submersion depth

50 Hz	60 Hz
78 m³/h	90 m³/h
700 m	700 m
0.55 - 55 kW	
0°C to 60°C	
350 m	



Z8-12
8" to 12"
submersible motor
pumps

Heads up to
Flows up to
Power up to
Temperature
Installation depth

50 Hz	60 Hz
520 m³/h	480 m³/h
550 m	
350 kW	
0°C to 60°C	
350 m	



Waste water submersible pumps.

Ready
Waste water-
submersible
motor pumps with
or without float
switch



Heads up to
Flows up to
Power up to

50 Hz
18 m³/hour
14 m
0.9 kW

BIBO 2800
Waste water-
submersible
motor pumps with
or without float
switch



Heads up to
Flows up to
Power up to

50 Hz
320 m³/h
65 m
18 kW

Single stage centrifugal pumps.

LSN

Centrifugal pumps with closed impeller
According to EN 22858/25199



50 Hz
450 m³/h
150 m
180 °C
DN 25-150
16 bar

Various materials and mechanical seals available

e-NSCS

Block pumps with coupled motor
According to EN 733



50 Hz
1300 m³/h
160 m
90 kW
-25°C to +140°C
16 bar

Various materials and mechanical seals available

e-NSCF/C

Bearing supported pumps mounted on a frame (rigid coupling or spacer type coupling)
According to EN 733



50 Hz
1800 m³/h
160 m
315 kW
-25°C to +140°C
16 bar

Various materials and mechanical seals available

Multistage pumps.

e-SV

Vertical multistage pumps



Heads up to
Flows up to
Power up to
Temperature

50 Hz	60 Hz
160 m³/h	160 m³/h
330 m	280 m
55 kW	55 kW
-30°C to +120°C (High temp. up to 180°C)	
DN 25-125	
40 bar	

Size
Pressure

The range has 11 designs and they can be adapted to several special applications.

NEW

e-MPA/e-MPR/e-MPD

Horizontal multistage pumps



Heads up to
Flows up to
Power up to
Temperature

50 Hz	60 Hz
850 m³/h	600 m³/h
950 m	970 m
1250 kW	1250 kW
-25°C to +140°C (High temp. up to 180°C)	
DN 50-150	
100 bar	

Size
Pressure

Multistage pumps.

e-MPV

Vertical multistage pumps

Heads up to
Flows up to
Power up to
Temperature
Size
Pressure

50 Hz	60 Hz
850 m ³ /h	600 m ³ /h
630 m	630 m
355 kW	355 kW
-25°C to +120°C	
DN 50-150	
63 bar	



MPE

Horizontal multistage pumps with bearings on both sides. Axial shift compensation and pressure relief by relief pistons

Heads up to
Flows up to
Temperature
Size
Pressure



50 Hz	60 Hz
300 m ³ /h	320 m ³ /h
850 m	850 m
140°C (optionally up to 180°C)	
DN 100-125	
100 bar	

Waste water pumps.

N 3000

Waste water submersible pump in gray cast iron with open dual channel impeller

Heads up to
Flows up to
Power up to
Temperature

2120 m ³ /h
108 m
105 kW
70°C



1300

Waste water submersible motor pump in gray cast iron with non-clogging impeller or vortex impeller

Heads up to
Flows up to
Power up to
Temperature



50 Hz
414 m ³ /h
63 m
18 kW
40°C

UV sterilization systems.

Spektron e

Certified in accordance with ÖNorm [Austrian Standard] M5873-1 - Method B, for sterilizing water to comply with microbiological standards. Cylindrical stainless steel reactor with concentrically arranged high performance low pressure jets.

Heads up to
Connections

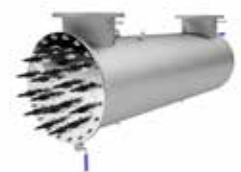


800 m ³ /h
NW 40-350

BX

Cylindrical stainless steel reactor with concentrically arranged high power low pressure jets for industrial applications.

Heads up to
Connections



2,120 m ³ /h
DN 80-500

References that impress.

Ski region Gerlitzen, Carinthia

Pump station Pilgram at 1600 masl
Delivery rates 760-1080 m³/h, head up to 50 bar



Pump station Klösterle at 1080 masl
Delivery rates 600 m³/h, head up to 55 bar



Pump station Neugarten at 1600 masl
Delivery rate 270 m³/h, head up to 50 bar

Pump station Waldtratte at 1500 masl
Delivery rate 108 m³/h, head up to 40bar



Multistage pumps, centrifugal pumps & inline pumps

Ski region Wagrain, Salzburg

5 pump stations between 800 masl and 1600 masl



Delivery rates up to 180 m³/h, head up to 79 bar

Multistage pumps, submersible motor pumps, waste water pumps & UV sterilization systems

Ski region Nassfeld, Carinthia

Pump station Rosskofel at 1780 masl
Delivery rates up to 900 m³/h, head up to 50 bar



Multistage pumps & centrifugal pumps



Pump station Rudnig at 1640 masl
Delivery rates up to 1440 m³/h, head up to 50 bar

Ski region Sölden, Tyrol

Pump station at 2602 masl



Delivery rates up to 300 m³/h, head up to 85 bar

Multistage pumps, centrifugal pumps & UV sterilization systems

Xylem |'zīləm|

- 1) The tissue in plants that transports water from the roots upwards;
- 2) a leading global water equipment company

We are 12,900 people who have a common goal of providing innovative solutions in order to cover the water requirements of our world. Our work focuses on the development of new technologies which improve the type and manner of water utilization and reuse in the future. We transport, treat and analyze water and lead it back to the environment, and we help people use water efficiently in their households, buildings, factories and agricultural operations. We have solid, long-standing relationships with our customers in more than 150 countries, with whom we are popularly known for our high-performance mix of leading product brands and application skills that are supported by a tradition of innovation.

Detailed information on how Xylem can be of assistance to you is available at xyleminc.com.

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Ein Partner im Netzwerk

