

Flygt Concertor® 6020

Wastewater pumping system with built-in intelligence

Xylem's Flygt Concertor is the world's first fully integrated, intelligent wastewater pumping system.
Using advanced software functionality and state-of-the-art hardware, Flygt Concertor delivers clog-free pumping, energy efficiency, and adaptive pump performance to meet system demands. Its built-in intelligence also makes setup and operation quick and easy.

A scalable system



Start with Concertor
Concertor N is a trouble-free, energy-efficient pump for on/off operation. Constant power, clog detection, pump cleaning, and soft start increase pump system reliability and lower operating costs.



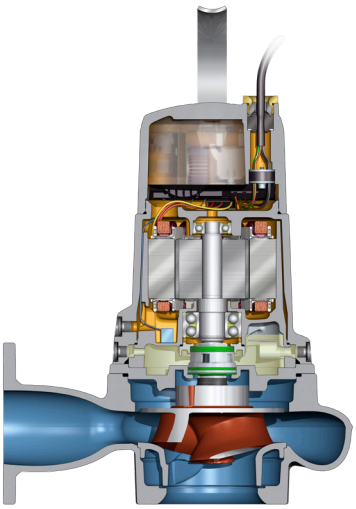
Add Gateway
Concertor DP leverages your plant's existing process control algorithms while simplifying the adjustment of performance parameters and providing redundancy as an on/off control.



Add Xylem HMI + Nexicon®
Concertor XPC comes pre-programmed with wastewater pumping logic for lowest total cost of ownership. Continuous operational analysis minimizes energy use, and built-in sump and pipe cleaning reduce maintenance callouts.

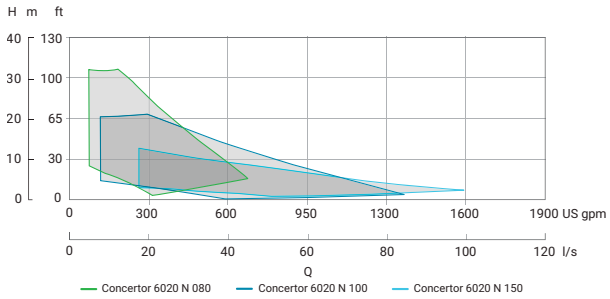
Key features

- IE4 equivalent permanent magnet motor
- Adaptive N® hydraulic system
- Always correct impeller rotation
- Flygt Plug-in seal with Active Seal system
- Long-life bearings
- Thermal sensors
- Leakage sensors
- Water-resistant cable entry



Broad performance field

Flygt Concertor operates across a broad pump performance field, eliminating the need for an exact duty point. One pump self-adjusts or can be adjusted to fit changing conditions – without having to change impeller diameters or motor sizes. Not only does this simplify selection, but your pump inventory can be significantly reduced.



Technical data

Concertor N 6020

Motor	Synchronous (concentrated winding) Permanent magnet rotor IE4 efficiency according to IEC/TS 60034-30-2 Ed. 1
Frequency	50, 60 Hz
Voltage/Rated power	200-240 V / 3.0, 5.5, 7.5 HP (2.2, 4.0, 5.5 kW) 380-480 V / 3.0, 5.5, 7.5, 10.0 HP (2.2, 4.0, 5.5, 7.3 kW)
Rated ambient liquid temperature	104° F (40° C)
Hydraulic	Guide pin Adaptive N
Discharge sizes	3", 4", 6" (80, 100, 150 mm)
Speed range	200-240 V: 500-3000 rpm 380-480 V: 500-3600 rpm
Impeller material options	Hard-Iron Duplex stainless steel
Seal system	Plug-in seal with double mechanical seals Active Seal function
Seal material options	WCCR/WCCR RSiC/WCCR
Cooling system	Liquid-free heat-conduction technology
Installation	P - Portable wet well installation S - Portable free standing installation T - Vertically mounted, permanent dry well installation Z - Horizontally mounted, permanent dry well installation
Sensors	Leakage detection in stator housing Two independent temperature sensors
Cable	Screened Flygt SUBCAB®, with integrated control wires 30, 50, 60, 100 ft (10, 16, 20, 31 m)
Approvals	CE, FM, ATEX, IECEx, CSA, UKCA, UKEX

Optional pump control	Concertor DP Gateway	Concertor XPC Nexicon
Included modules	Machine gateway	Machine gateway Application manager Backplane Backplane power supply
Expansion modules	–	Analog I/O Digital I/O
Power supply	+24 V	+24 V
Ports	1 USB 1 RS485 1 Ethernet (IPv4) 1 Display interface, CAN	1 USB 2 RS485 1 Ethernet (IPv4)
Communication protocols	Modbus RTU/TCP	Modbus RTU/TCP, DNP3, IEC-104
User interface	HMI (optional)	HMI
Environment class	Protection class: NEMA 1 (IP20) Operation temperature: -4° to +149°F (-20° to +65°C)	Protection class: IP20 Operation temperature: -4° to +140°F (-20° to +60°C)
Approvals	CE, UL, CSA, RCM	CE, UL, CSA, RCM, UKCA
Cybersecurity standards	–	ISA/IEC 62443-4-1
Built-in functions	Soft stop Trip auto-reset Status and history log Emergency run input External speed control	Soft stop Trip auto-reset Status and history log Emergency run input Set-up wizard Manage up to 4 pumps/station Energy minimizer Sump cleaning Pipe cleaning

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