



Flygt Concertor[®] 6020

WASTEWATER PUMPING SYSTEM WITH BUILT-IN INTELLIGENCE



Flygt Concertor is the world's first fully integrated, intelligent wastewater pumping system.

Using advanced software functionality and state-of-the-art hardware, 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.

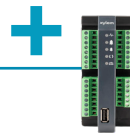
A scalable system

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.

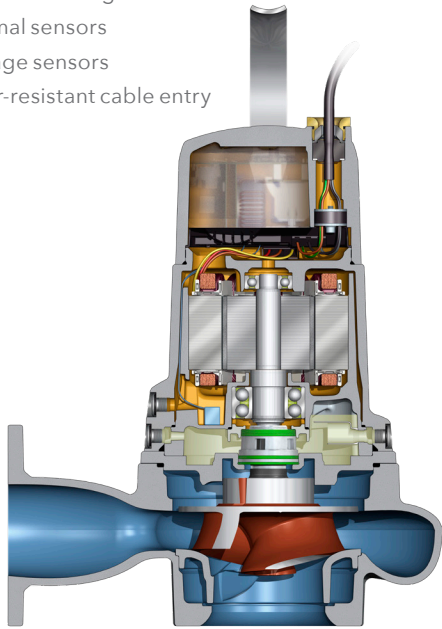


Add MultiSmart[®] powered by Nexicon[®]

Concertor with MultiSmart powered by Nexicon 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.

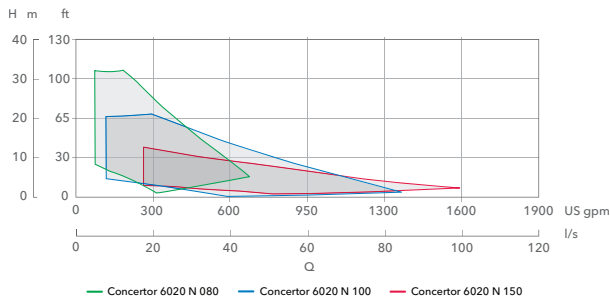


- IE4 equivalent permanent magnet motor
- Adaptive N® hydraulic system
- Always correct impeller rotation
- Flygt Plug-in seal with Active Seal system
- Long-life bearings
- Thermal sensors
- Leakage sensors
- Water-resistant cable entry



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 with MultiSmart powered by 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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