

# Concertor N80-4350

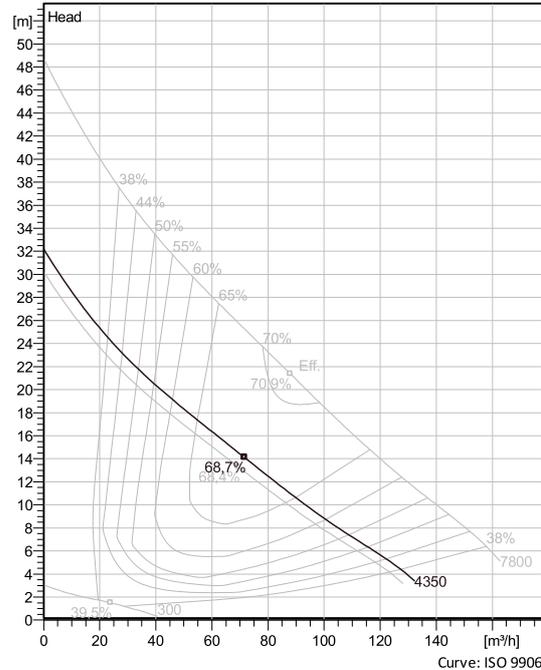
The most intelligent wastewater pump on the market. Suitable for customers operating traditional on/off pump stations who want to benefit from re-settable pump performance, clog detection and pump cleaning, soft start, constant power and motor protection.



## Technical specification



Curves according to: Water, pure [100%], 4 °C, 999,9 kg/m<sup>3</sup>, 1,5692 mm<sup>2</sup>/s



Nominal (mean) data shown. Under- and over-performance from this data should be expected due to standard manufacturing tolerances. Please consult your local Flygt representative for performance guarantees.

## Configuration

<b>Motor number</b> N6020.182 18-08-1AZ-W 4KW	<b>Installation type</b> P - Semi permanent, Wet
<b>Impeller diameter</b> 170 mm	<b>Discharge diameter</b> 80 mm

## Pump information

<b>Impeller diameter</b> 170 mm
<b>Discharge diameter</b> 80 mm
<b>Inlet diameter</b> 110 mm
<b>Maximum operating speed</b> 800-2611,4 rpm
<b>Number of blades</b> 2
<b>Max. fluid temperature</b> 40 °C

## Materials

<b>Impeller</b> Hard-Iron
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<b>Project</b>	Xylect-20149361	<b>Created by</b>	
<b>Block</b>		<b>Created on</b>	6/10/2024
		<b>Last update</b>	6/10/2024

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## Technical specification



### Motor - General

<b>Motor number</b> N6020.182 18-08-1AZ-W 4KW	<b>Phases</b> 3~	<b>Rated speed</b> 800-2611 rpm	<b>Rated power</b> 4 kW
<b>Approval</b> No	<b>Insulation class</b> H	<b>Rated current</b> 7 A	<b>Type of Duty</b> S1
<b>Frequency</b> 50 Hz	<b>Rated voltage</b> 400 V	<b>Motor efficiency class</b> IE4 according to IEC/TS 60034-30-2 Ed. 1	

### Motor - Technical

<b>Power factor - 1/1 Load</b> 0,95	<b>Motor efficiency - 1/1 Load</b> 90,0 %	<b>Nominal speed - 1/1 Load</b> 2300 rpm
<b>Power factor - 3/4 Load</b> 0,95	<b>Motor efficiency - 3/4 Load</b> 91,0 %	<b>Nominal speed - 3/4 Load</b> 2070 rpm
<b>Power factor - 1/2 Load</b> 0,95	<b>Motor efficiency - 1/2 Load</b> 91,0 %	<b>Nominal speed - 1/2 Load</b> 1840 rpm
<b>Starting current</b> 7 A		

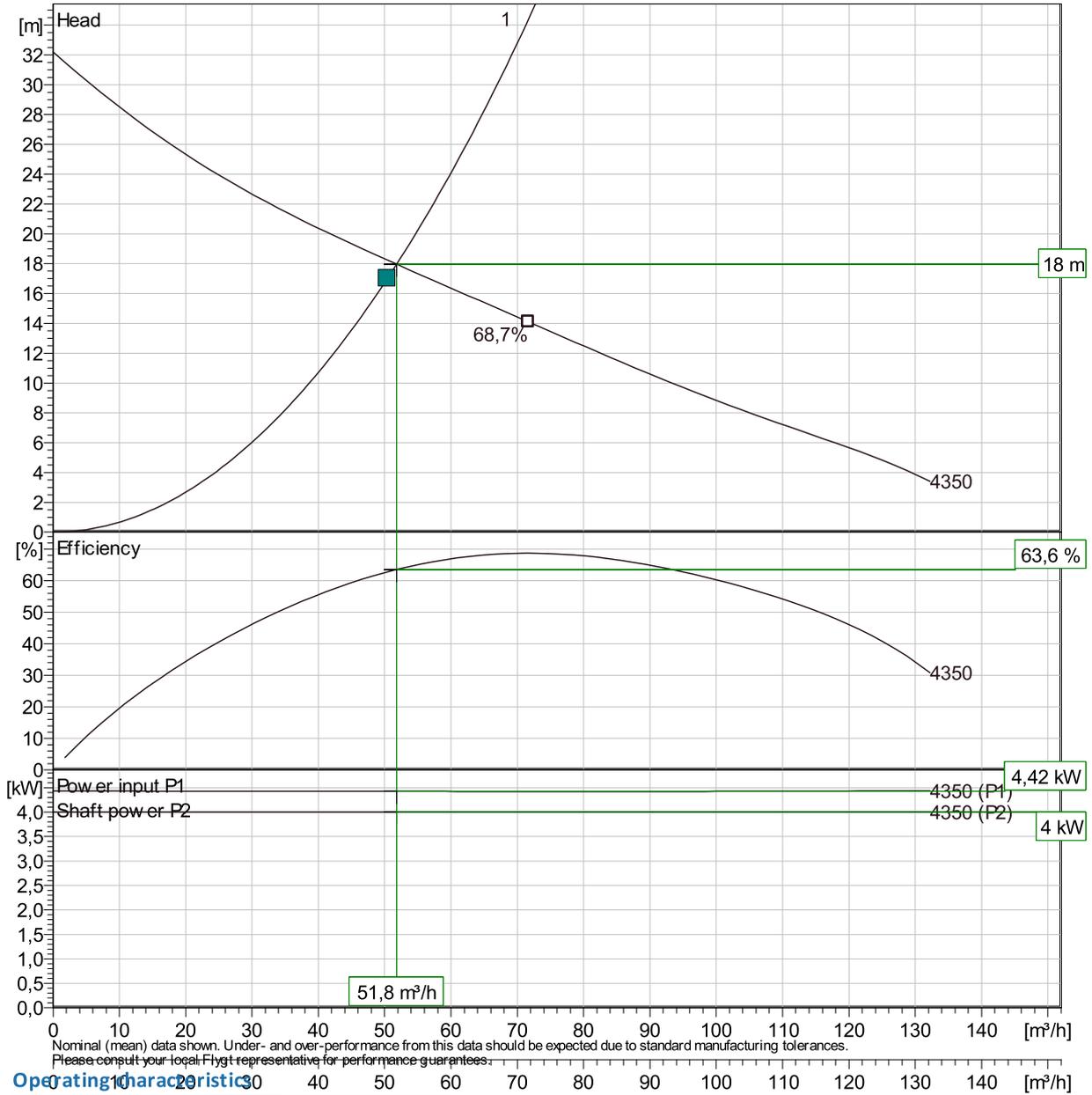
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## Duty Analysis



Curves according to: Water, pure [100%], 4 °C, 999,9 kg/m<sup>3</sup>, 1,5692 mm<sup>2</sup>/s



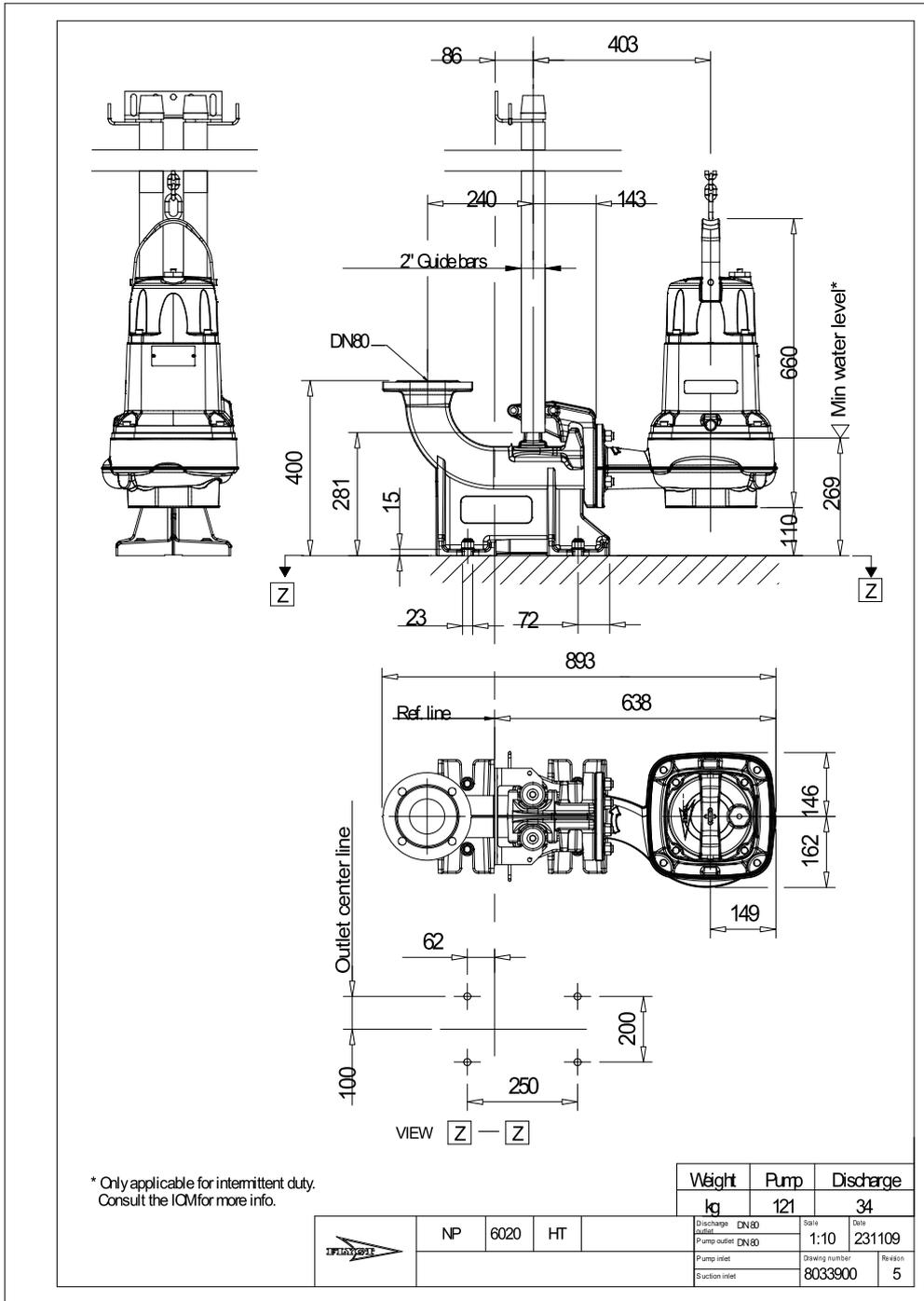
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Pumps / Systems	Flow m <sup>3</sup> /h	Head m	Shaft power kW	Flow m <sup>3</sup> /h	Head m	Shaft power kW	Hydr. eff.	Specific energy kWh/m <sup>3</sup>	NPSHre m
1	51,8	18	4	51,8	18	4	63,6 %	0,0854	3,22

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Dimensional drawing



<b>Project</b>	Xylect-20149361	<b>Created by</b>	
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