

NX 3102 MT 3~ Adaptive 460

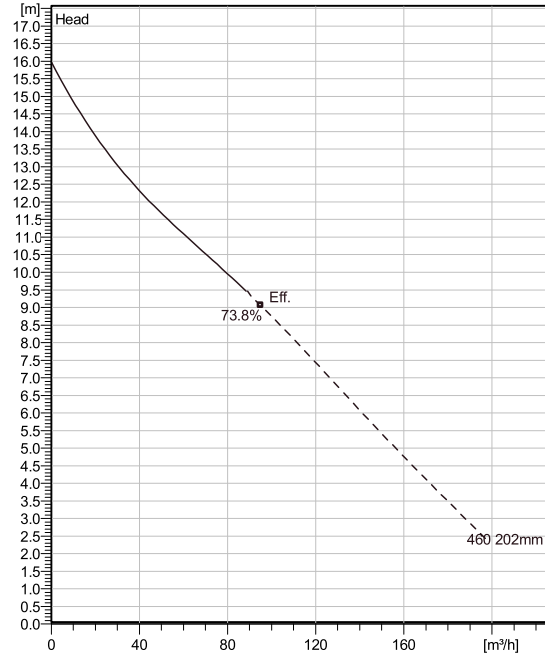
Patented self cleaning semi-open channel impeller, ideal for pumping in most waste water applications. Modular based design with high adaptation grade.



Technical specification



Curves according to: Water, pure Water, pure [100%], 4 °C, 1 kg/dm³, 1.569 mm²/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

Motor number N3102.160 18-11-4AL-W 3.1KW	Installation type X - Optional installation, Wet or Dry
Impeller diameter 202 mm	Discharge diameter 100 mm

Configuration

Pump information

Impeller diameter 202 mm
Discharge diameter 100 mm
Inlet diameter 100 mm
Maximum operating speed 1450 1/min
Number of blades 2
Max. fluid temperature 40 °C

Material

Impeller Grey cast iron
Stator housing material Grey cast iron

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Technical specification



Motor - General

Motor number N3102.160 18-11-4AL-W 3.1KW	Phases 3~	Rated speed 1450 1/min	Rated power 3.1 kW
Approval No	Number of poles 4	Rated current 6.8 A	Stator variant 61
Frequency 50 Hz	Rated voltage 400 V	Insulation class H	Type of Duty S1
Version code 160			

Motor - Technical

Power factor - 1/1 Load 0.77	Motor efficiency - 1/1 Load 85.6 %	Total moment of inertia 0.0295 kg m ²	Starts per hour max. 30
Power factor - 3/4 Load 0.69	Motor efficiency - 3/4 Load 85.7 %	Starting current, direct starting 41 A	
Power factor - 1/2 Load 0.56	Motor efficiency - 1/2 Load 84.1 %	Starting current, star-delta 13.7 A	

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Performance curve

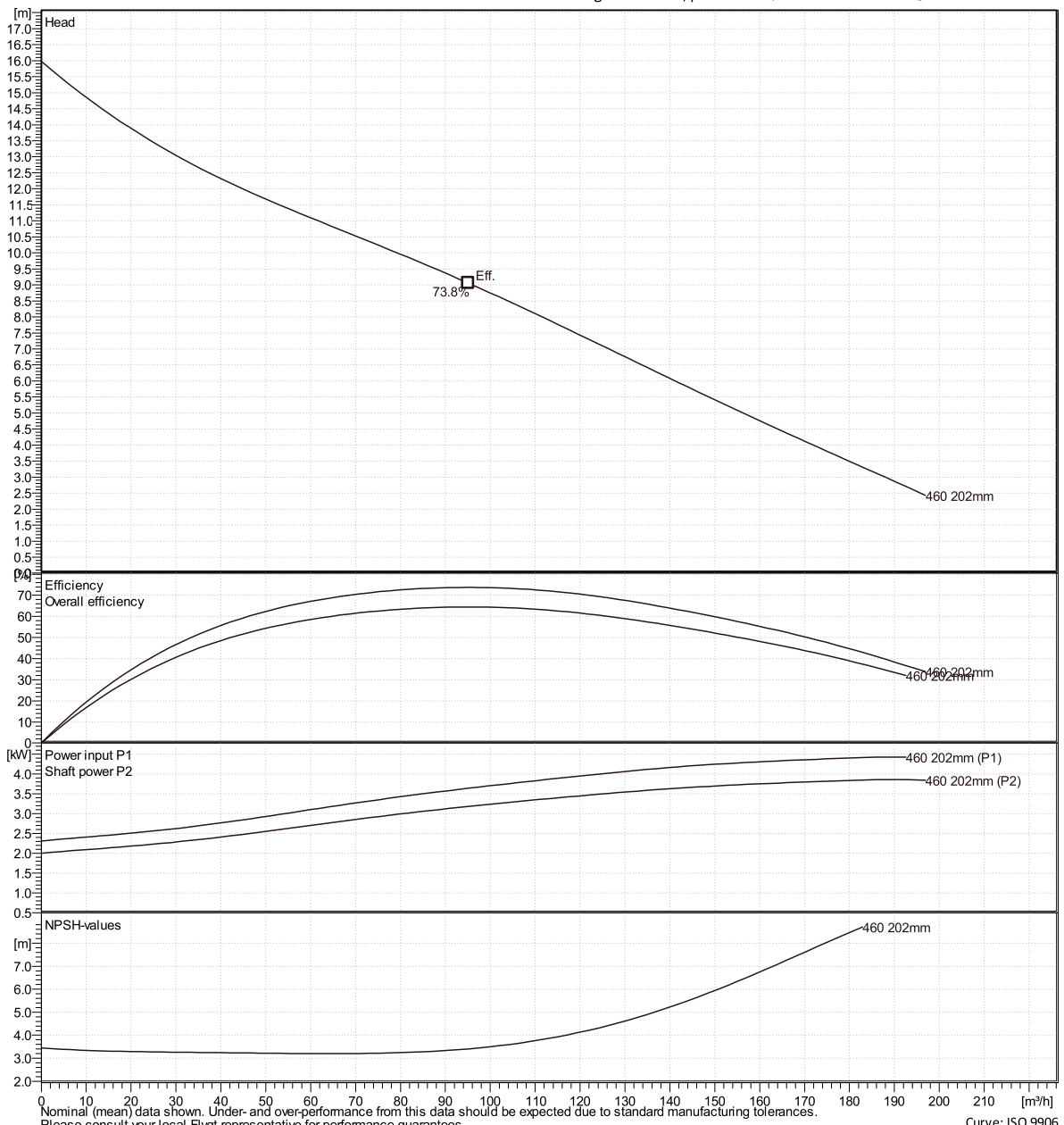


Duty point

Flow

Head

Curves according to: Water, pure Water, pure [100%], 4 °C, 1 kg/dm³, 1.569 mm²/s



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Xylect-21057820

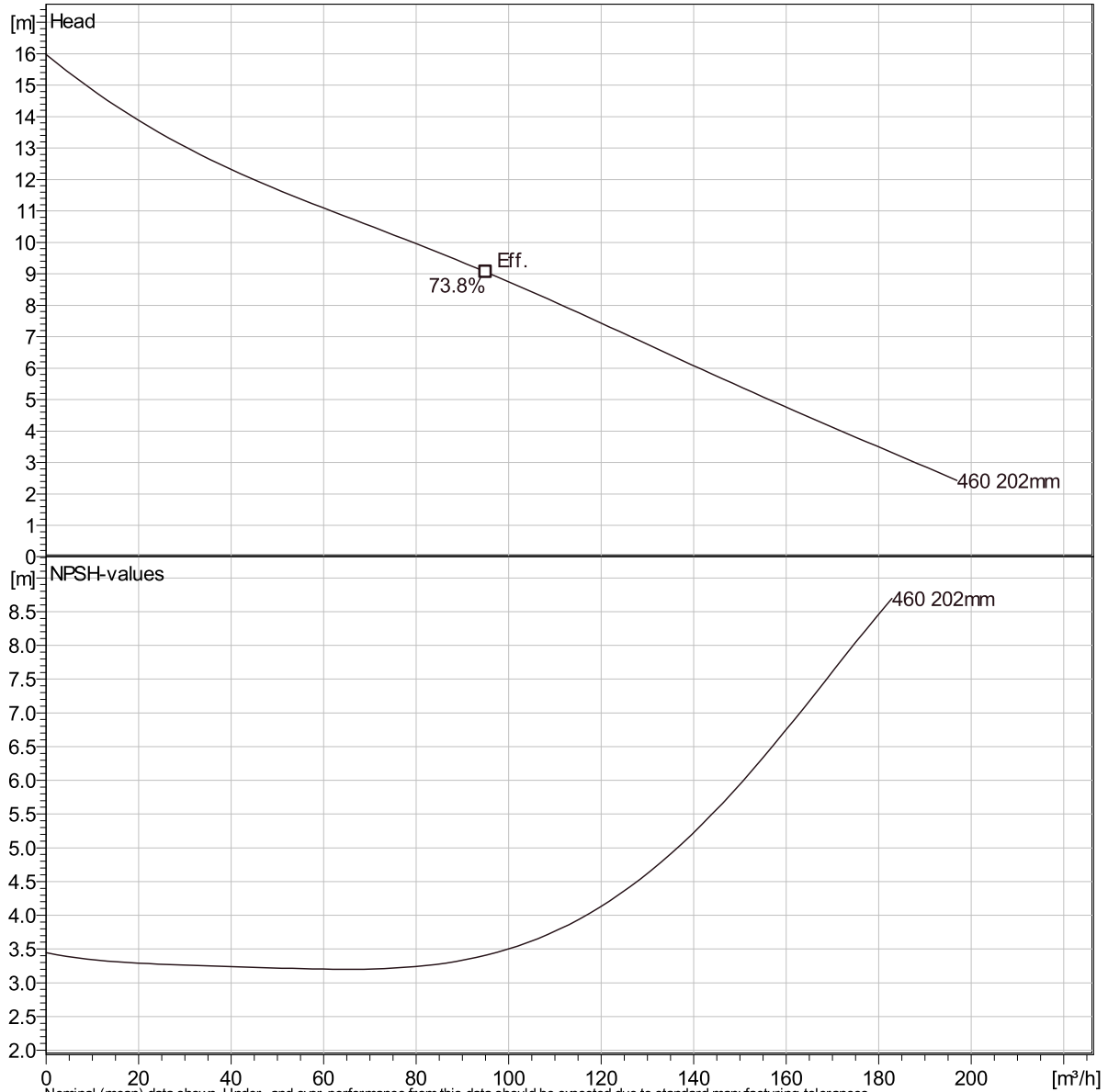
8/29/2023

NX 3102 MT 3~ Adaptive 460

Duty Analysis



Curves according to: Water, pure [100%]; 4°C; 1kg/dm³; 1.569mm²/s



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Operating characteristics

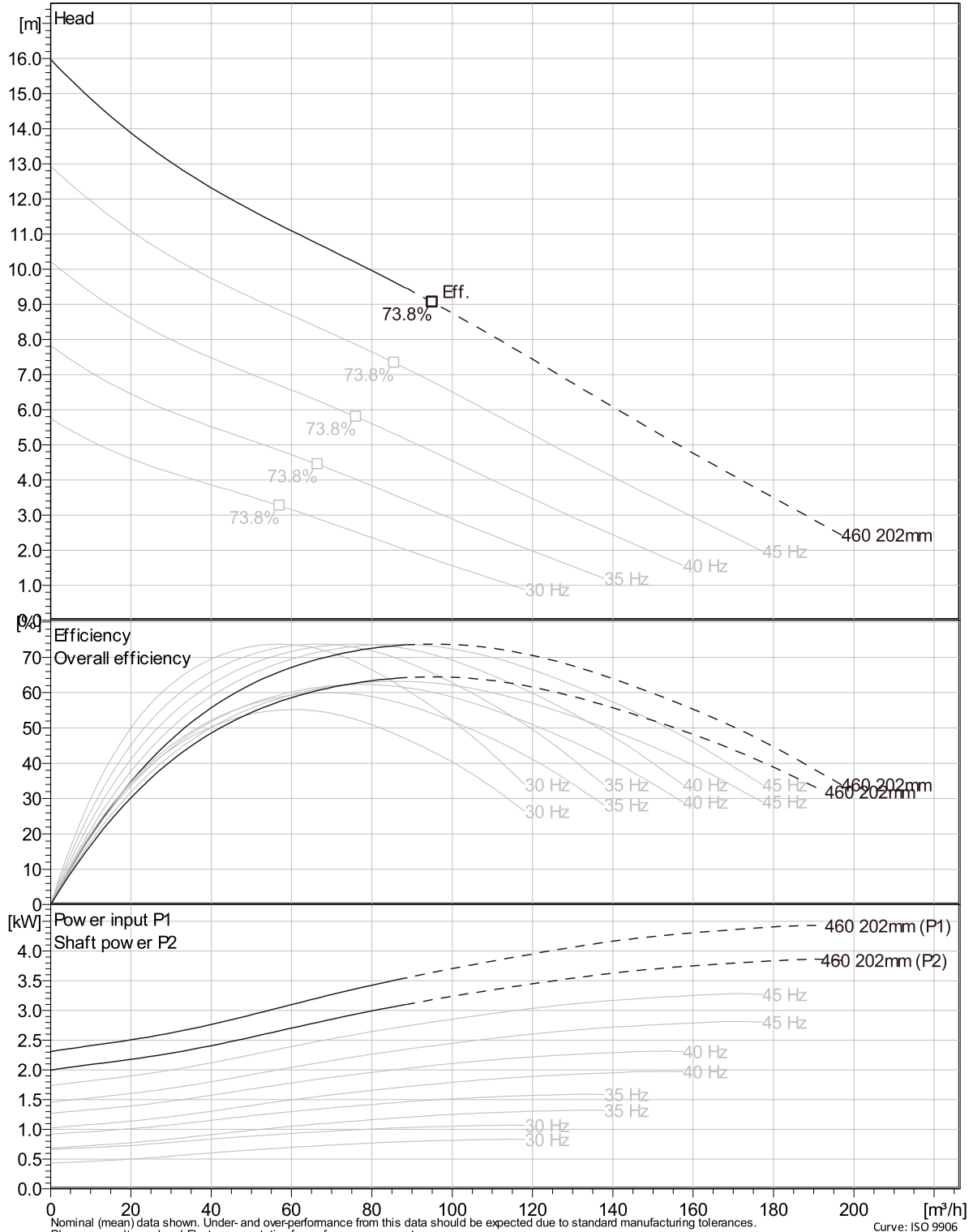
Pumps / Systems	Flow m ³ /h	Head m	Shaft power kW	Flow m ³ /h	Head m	Shaft power kW	Hydr. eff.	Spec. Energy kWh/l	NPSHre m

NX 3102 MT 3~ Adaptive 460

VFD Curve



Curves according to: Water, pure, 4 °C, 1 kg/dm³, 1.569 mm²/s



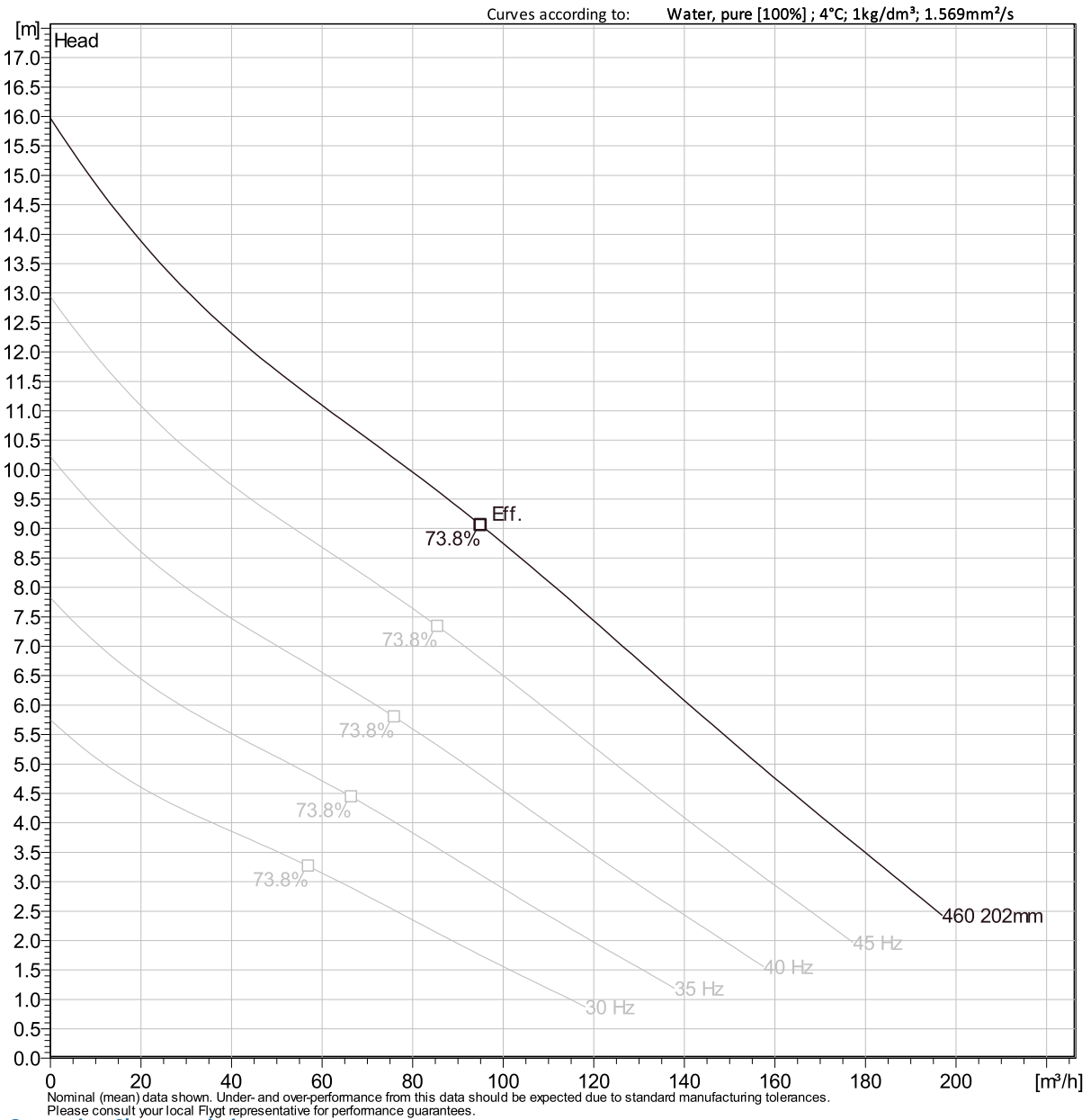
Nominal (mean) data shown. Under- and over-performance from this data should be expected due to standard manufacturing tolerances. Please consult your local Flygt representative for performance guarantees.

Curve: ISO 9906

Project Xylect-21057820
Block

NX 3102 MT 3~ Adaptive 460

VFD Analysis



Operating Characteristics

Pumps / Systems	Frequency	Flow	Head	Shaft power	Flow	Head	Shaft power	Hydr. eff.	Specific energy	NPSHre
		m ³ /h	m	kW	m ³ /h	m	kW		kWh/l	m

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Dimensional drawing

