

NP 3202 LT 3~ 618

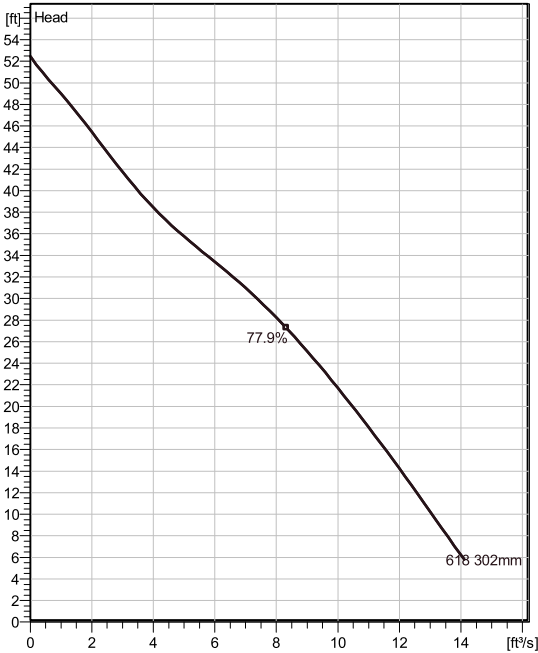
Patented self cleaning semi-open channel impeller, ideal for pumping in waste water applications. Modular based design with high adaptation grade.



Technical specification



Curves according to: Water, pure Water, pure [100%], 39.2 °F, 62.42 lb/ft³, 1.6891E-5 ft²/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	Installation type
N3202.820 30-29-61E-W IE3 34hp	P - Semi permanent, Wet
Impeller diameter	Discharge diameter
302 mm	12 inch

Configuration

Pump information

Impeller diameter
302 mm
Discharge diameter
12 inch
Inlet diameter
300 mm
Maximum operating speed
1185 rpm
Number of blades
2
Max. fluid temperature
40 °C

Material

Impeller
Hard-Iron™

Project	Xylect-21113367	Created by	Kendra Brown
Block		Created on	9/8/2023
		Last update	9/8/2023

NP 3202 LT 3~ 618

Technical specification



Motor - General

Motor number N3202.820 30-29-6IE-W IE3 34hp	Phases 3~	Rated speed 1185 rpm	Rated power 34 hp
ATEX approved No	Number of poles 6	Rated current 43 A	Stator variant 4
Frequency 60 Hz	Rated voltage 460 V	Insulation class H	Type of Duty S1
Version code 820			

Motor - Technical

Power factor - 1/1 Load 0.78	Motor efficiency - 1/1 Load 93.7 %	Total moment of inertia 13.3 lb ft ²	Starts per hour max. 30
Power factor - 3/4 Load 0.71	Motor efficiency - 3/4 Load 94.0 %	Starting current, direct starting 291 A	
Power factor - 1/2 Load 0.59	Motor efficiency - 1/2 Load 93.5 %	Starting current, star-delta 97 A	

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NP 3202 LT 3~ 618

Performance curve

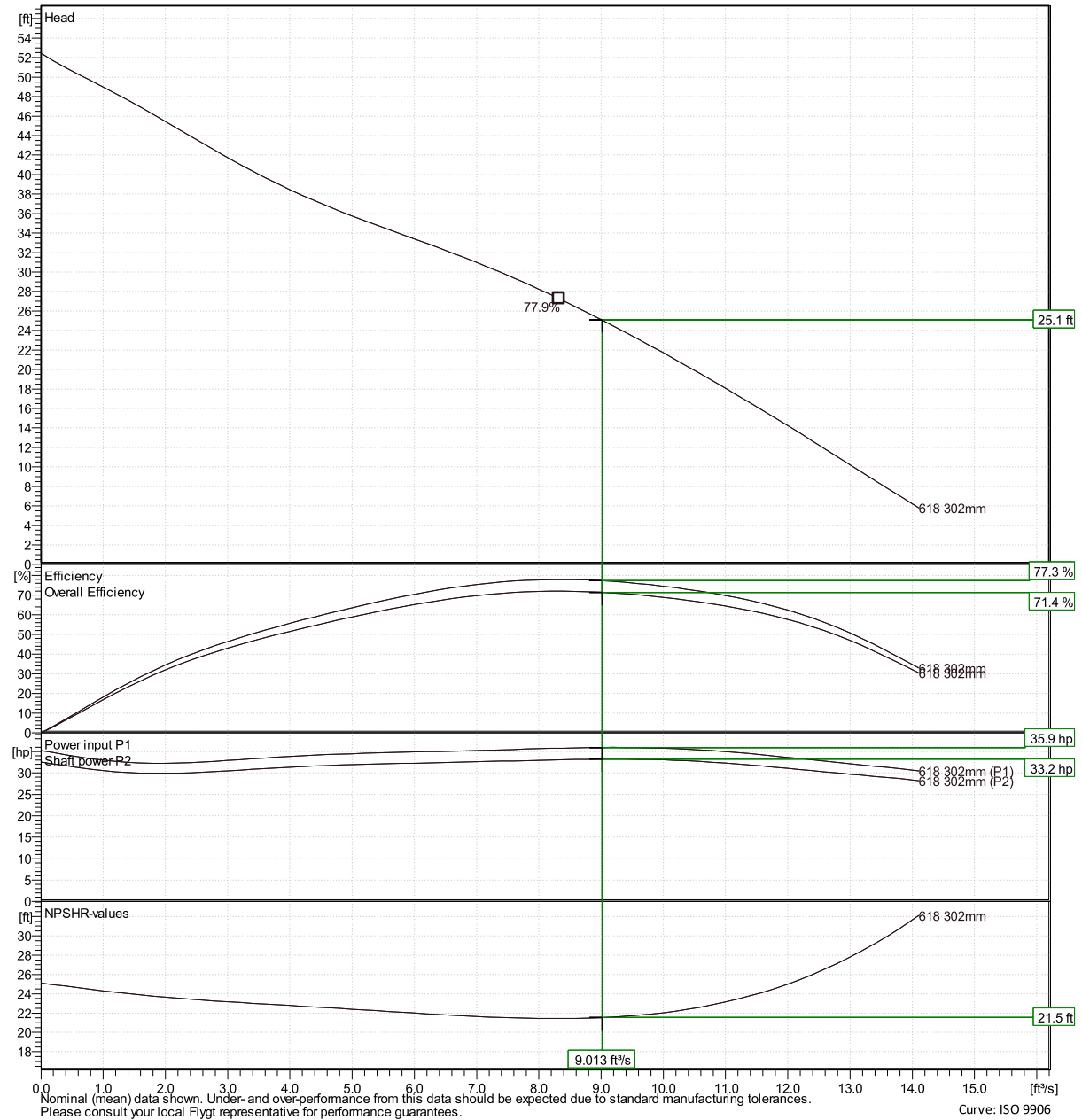


Duty point

Flow
9.01 ft³/s

Head
25.1 ft

Curves according to: Water, pureWater, pure [100%], 39.2 °F, 62.42 lb/ft³, 1.6891E-5 ft²/s



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Curve: ISO 9906

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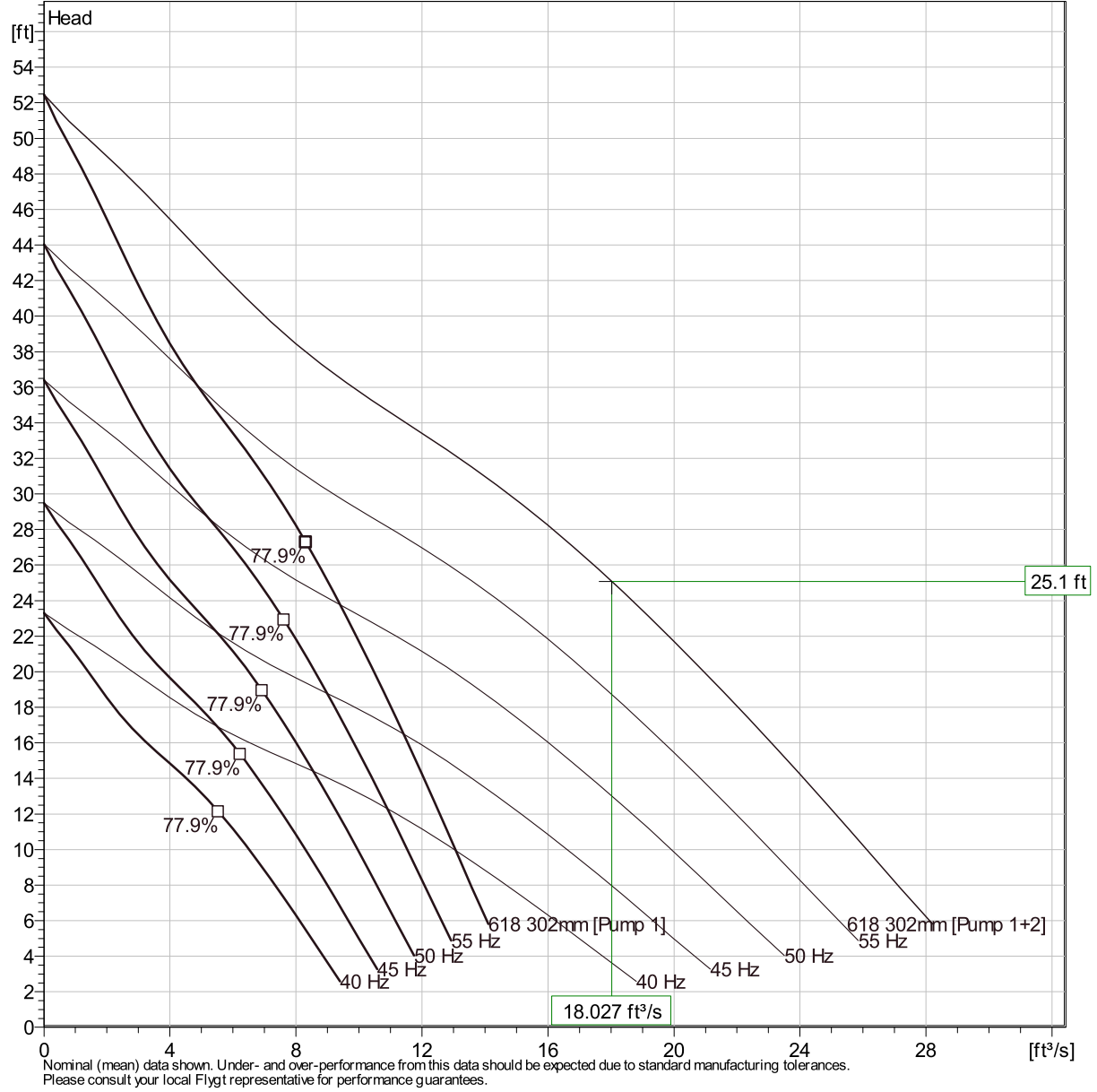
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NP 3202 LT 3~ 618

Duty Analysis



Curves according to: Water, pure [100%] ; 39.2°F; 62.42lb/ft³; 1.6891E-5ft²/s



Operating characteristics

Pumps / Systems	Flow ft³/s	Head ft	Shaft power hp	Flow ft³/s	Head ft	Shaft power hp	Hydr.eff.	Spec. Energy kWh/US MG	NPSHre ft
2 / 1	9.01	25.1	33.2	18	25.1	66.4	77.3 %	110	21.5
1 / 1	12.5	12.1	30.3	12.5	12.1	30.3	56.9 %	72.6	26.4

Project

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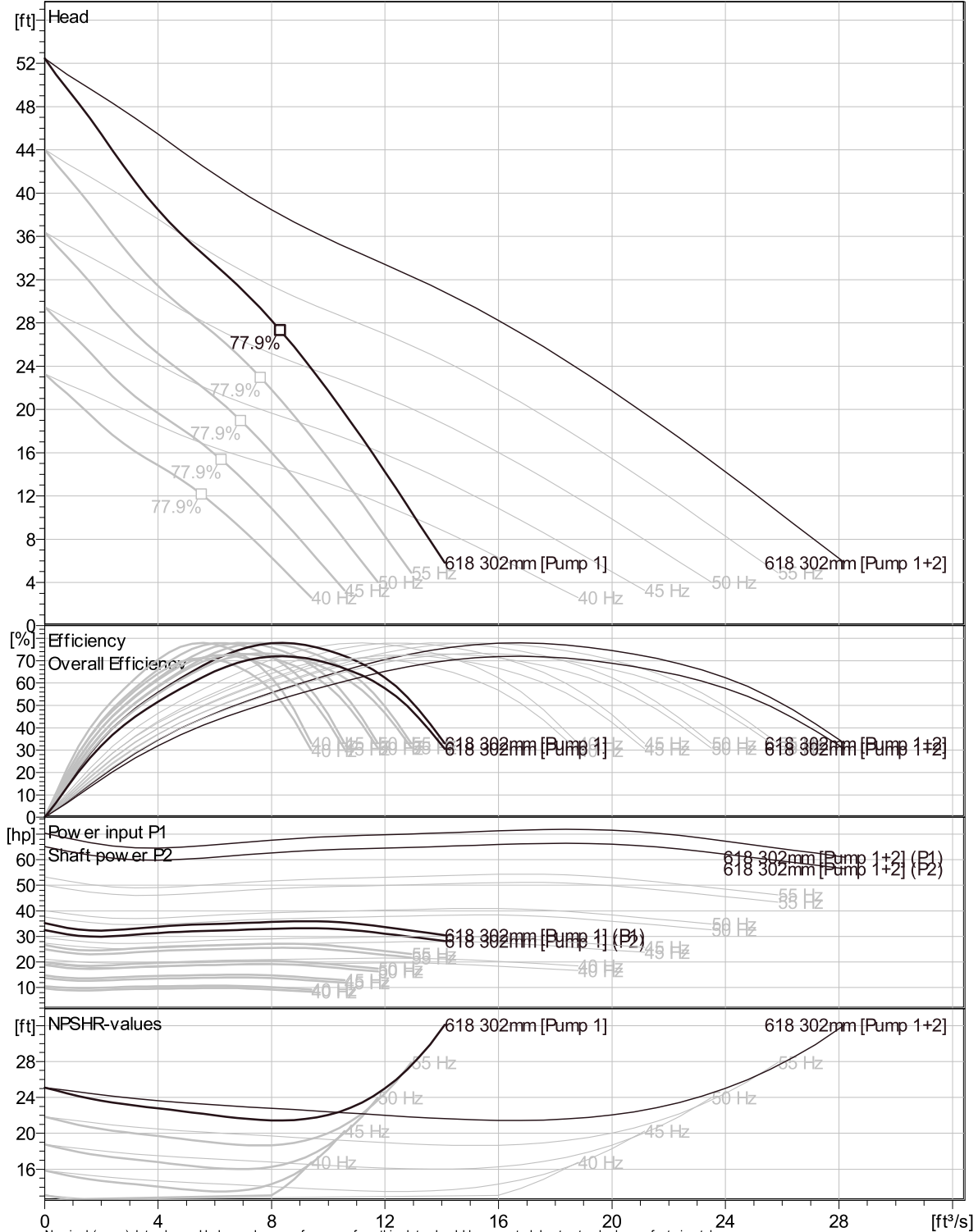
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NP 3202 LT 3~ 618

VFD Curve



Curves according to: Water, pure, 39.2 °F, 62.42 lb/ft³, 1.6891E-5 ft²/s



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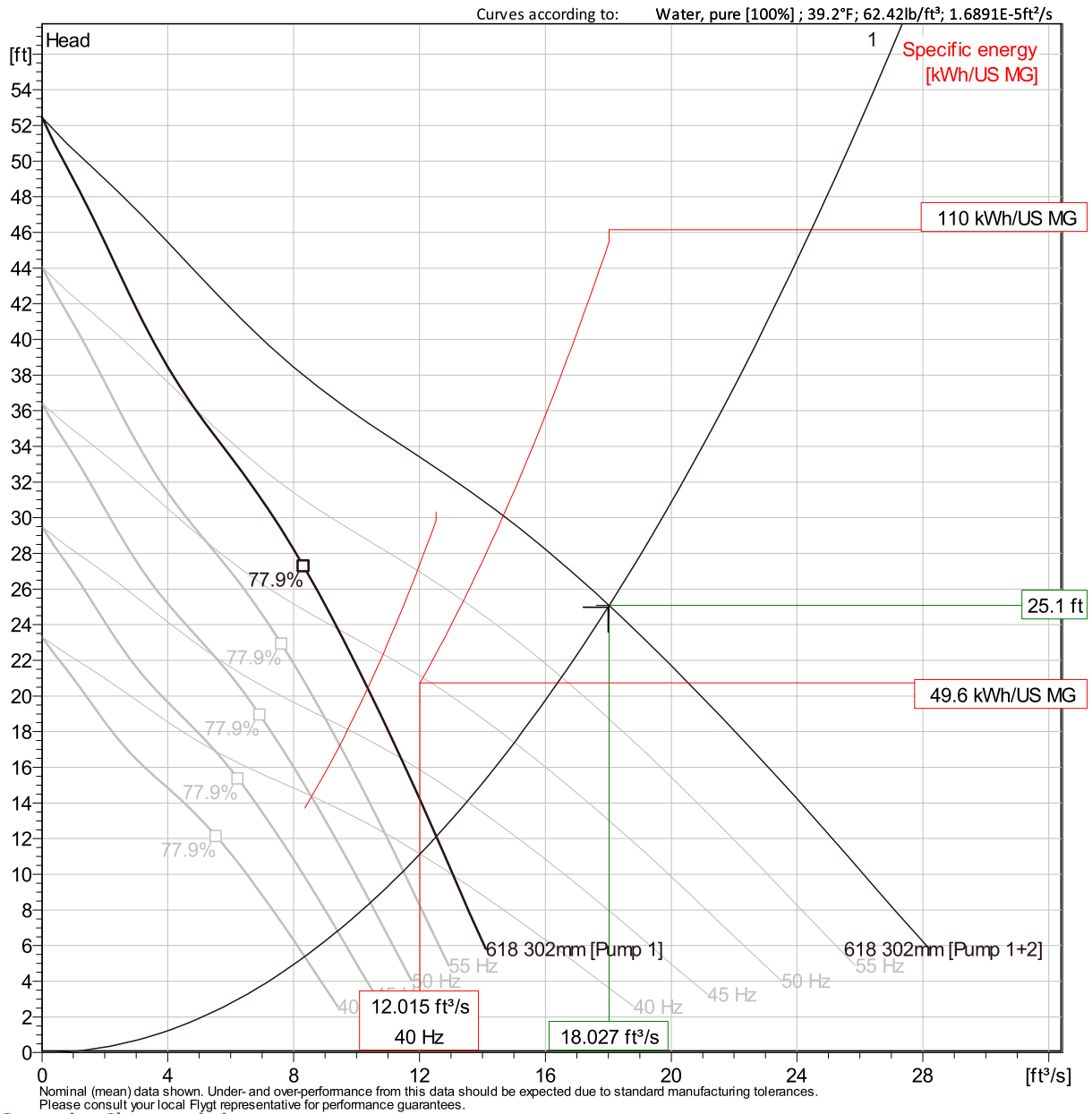
Curve: ISO 9906

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NP 3202 LT 3~ 618

VFD Analysis



Operating Characteristics

Pumps / Systems	Frequency	Flow	Head	Shaft power	Flow	Head	Shaft power	Hydr. eff.	Specific energy	NPSHre
		ft³/s	ft	hp	ft³/s	ft	hp		kWh/US MG	ft
2 / 1	60 Hz	9.01	25.1	33.2	18	25.1	66.4	77.3 %	110	21.5
2 / 1	55 Hz	8.26	21.1	25.6	16.5	21.1	51.2	77.3 %	91.1	18.7
2 / 1	50 Hz	7.51	17.4	19.2	15	17.4	38.4	77.3 %	75.5	16.1
2 / 1	45 Hz	6.76	14.1	14	13.5	14.1	28	77.3 %	61.6	13.6

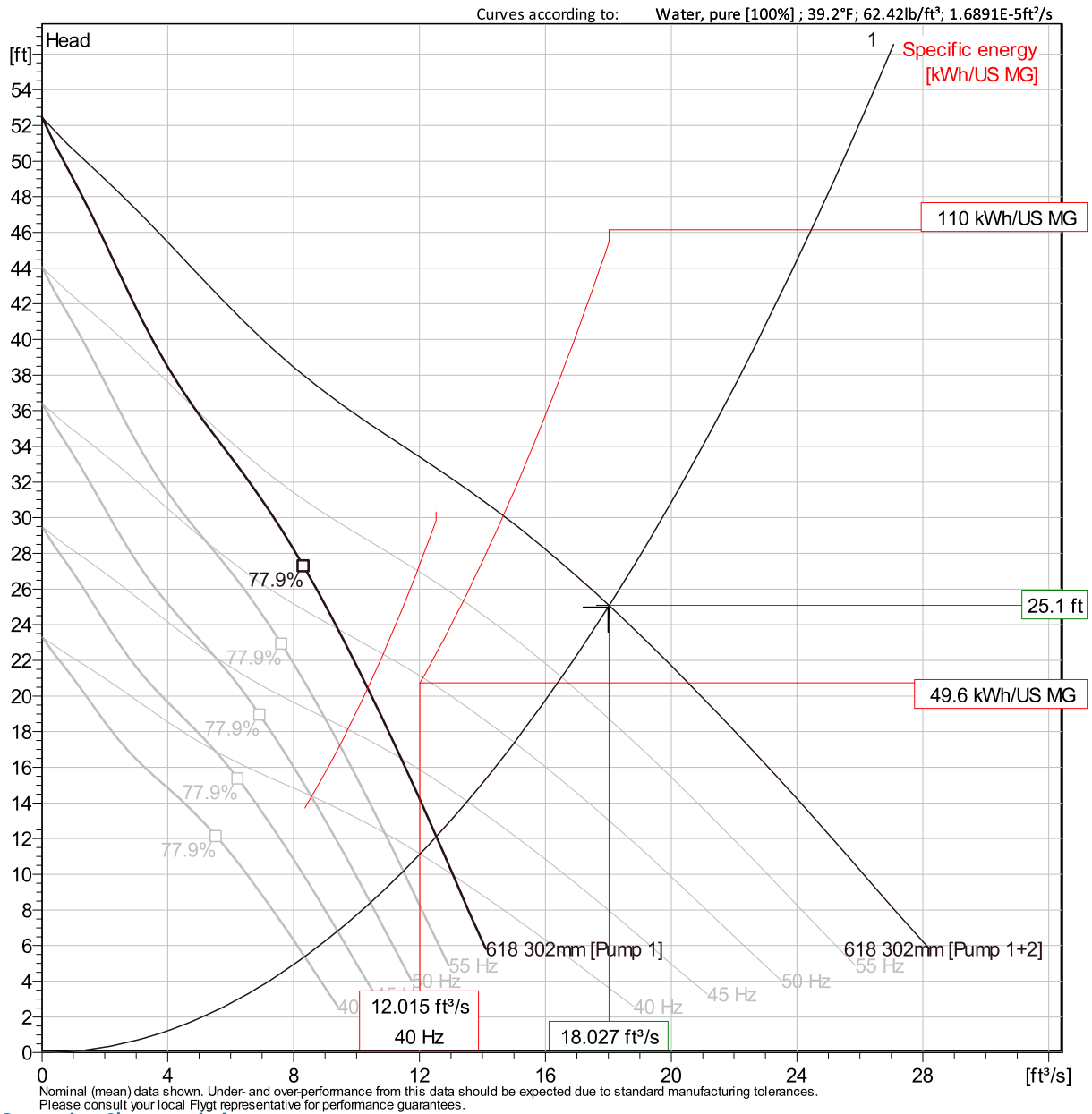
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NP 3202 LT 3~ 618

VFD Analysis



Operating Characteristics

Pumps / Systems	Frequency	Flow	Head	Shaft power	Flow	Head	Shaft power	Hydr. eff.	Specific energy	NPSHre
		ft³/s	ft	hp	ft³/s	ft	hp		kWh/US MG	
2 / 1	40 Hz	6.01	11.1	9.84	12	11.1	19.7	77.3 %	49.6	11.3
1 / 1	60 Hz	12.5	12.1	30.3	12.5	12.1	30.3	56.9 %	72.6	26.4
1 / 1	55 Hz	11.5	10.2	23.4	11.5	10.2	23.4	56.9 %	59.9	22.9
1 / 1	50 Hz	10.4	8.42	17.6	10.4	8.42	17.6	56.9 %	49.7	19.7

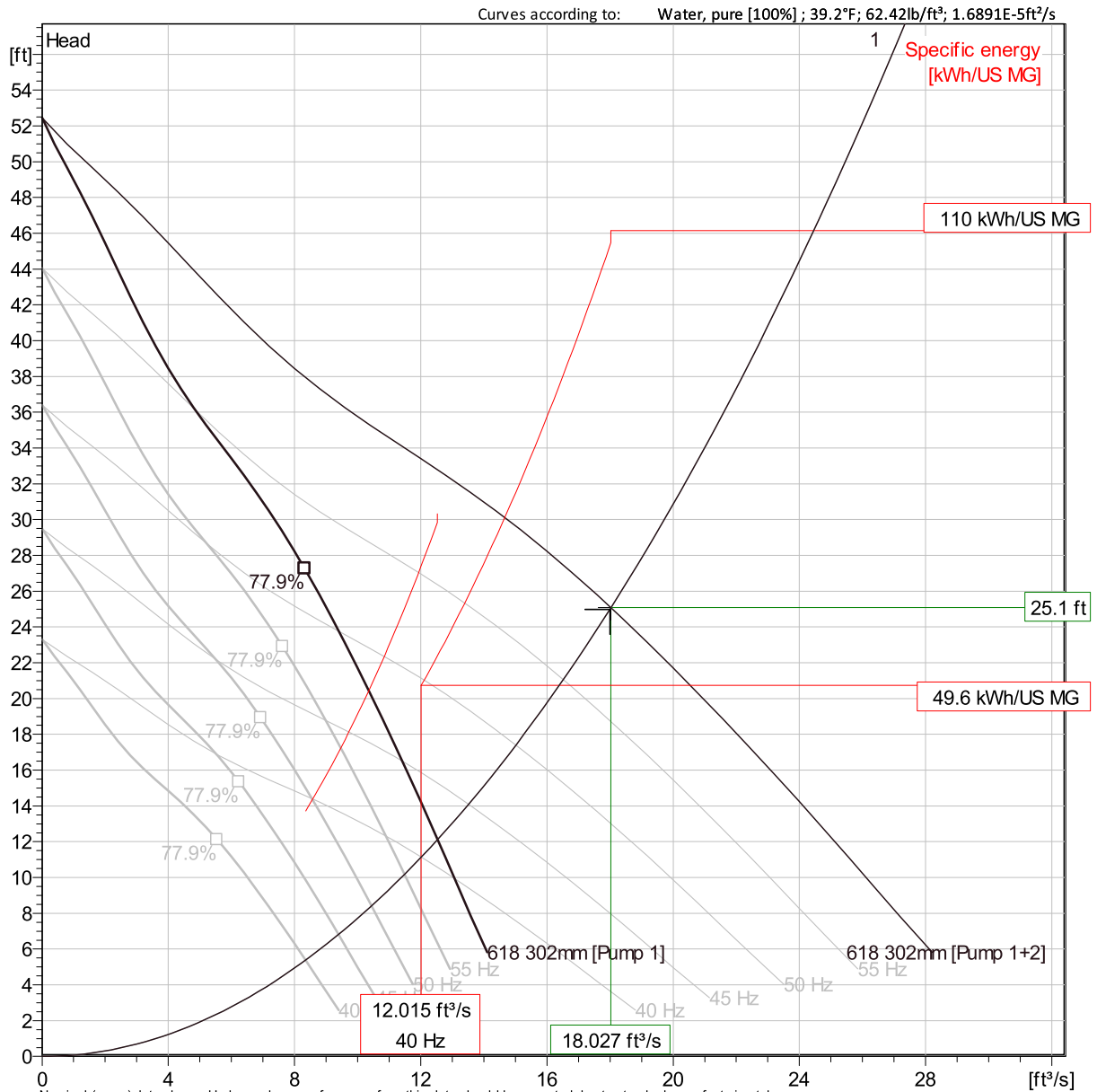
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VFD Analysis



Operating Characteristics

Pumps / Systems	Frequency	Flow	Head	Shaft power	Flow	Head	Shaft power	Hydr. eff.	Specific energy	NPSHre
		ft³/s	ft	hp	ft³/s	ft	hp		kWh/US MG	ft
1 / 1	45 Hz	9.4	6.82	12.8	9.4	6.82	12.8	56.9 %	40.7	16.6
1 / 1	40 Hz	8.35	5.39	8.99	8.35	5.39	8.99	56.9 %	32.8	13.8

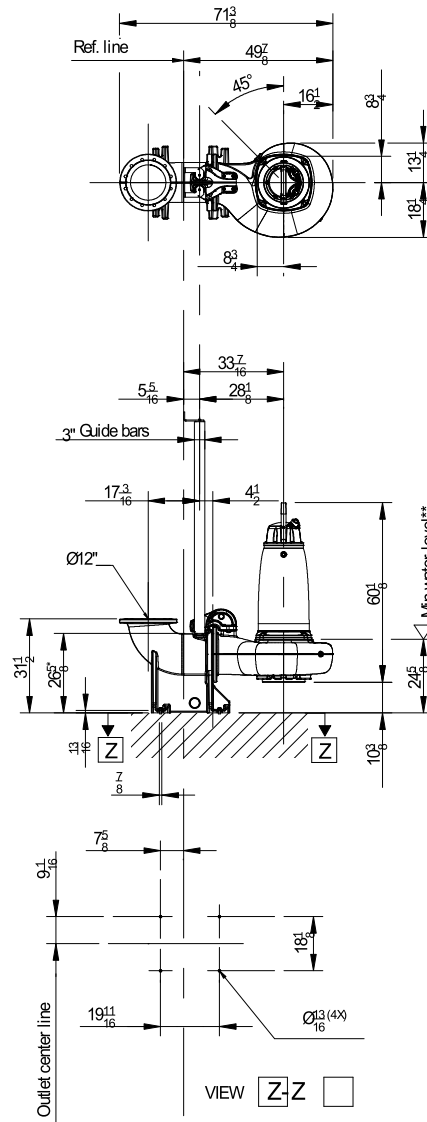
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Dimensional drawing



* Dimension to ends of Guide bars
** Only applicable for intermittent duty.
Consult the IOM for more info.

Weight (lbs)	Pump	Discharge
with cooling jacket	1975	645
without cooling jacket	1835	645



NP 3202 LT
800,810,820,830,860,870

Discharge outlet Ø12"	Scale 1:40	Date 22/11/25
Pump outlet Ø12"	Drawing number 7731400	Revision 5
Pump inlet		
Suction inlet		

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