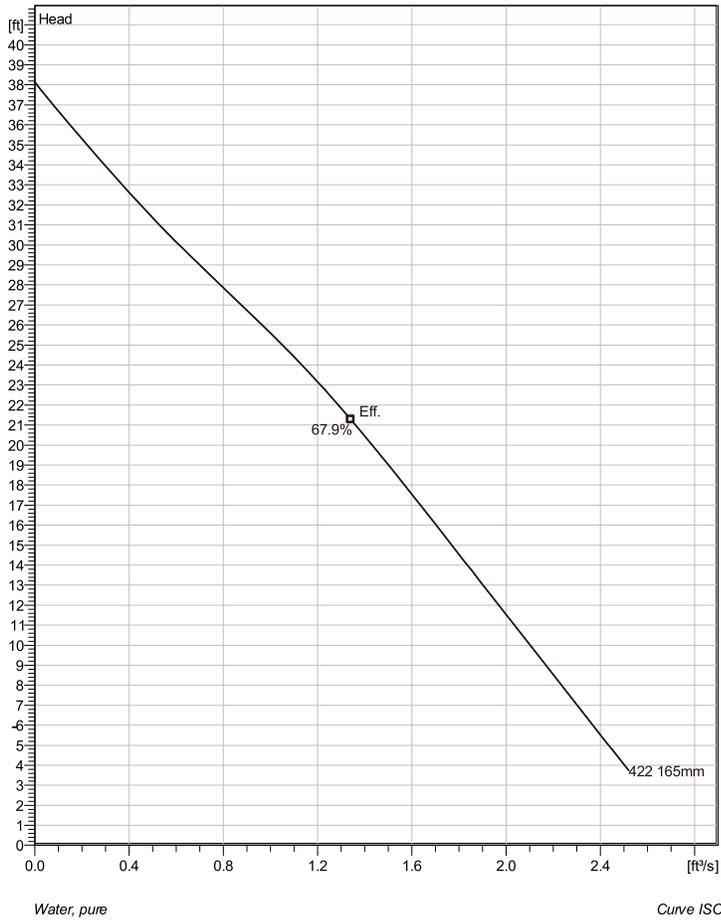


NP 3102 LT 3~ Adaptive 422

Technical specification



Note: Picture might not correspond to the current configuration.

General

Patented self cleaning semi-open channel impeller, ideal for pumping in waste water applications. Possible to be upgraded with Guide-pin® for even better clogging resistance. Modular based design with high adaptation grade.

Impeller

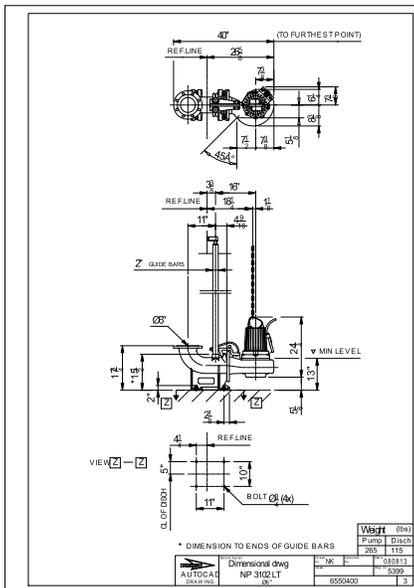
Impeller material	Hard-Iron™
Discharge Flange Diameter	5 7/8 inch
Suction Flange Diameter	5 7/8 inch
Impeller diameter	165 mm
Number of blades	2

Motor

Motor #	N3102.060 18-11-4AL-W 5hp Standard
Stator variant	1
Frequency	60 Hz
Rated voltage	460 V
Number of poles	4
Phases	3~
Rated power	5 hp
Rated current	6.8 A
Starting current	42 A
Rated speed	1745 rpm
Power factor	
1/1 Load	0.81
3/4 Load	0.75
1/2 Load	0.63
Motor efficiency	
1/1 Load	85.1 %
3/4 Load	85.3 %
1/2 Load	83.6 %

Configuration

Installation: P - Semi permanent, Wet



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NP 3102 LT 3~ Adaptive 422

Performance curve



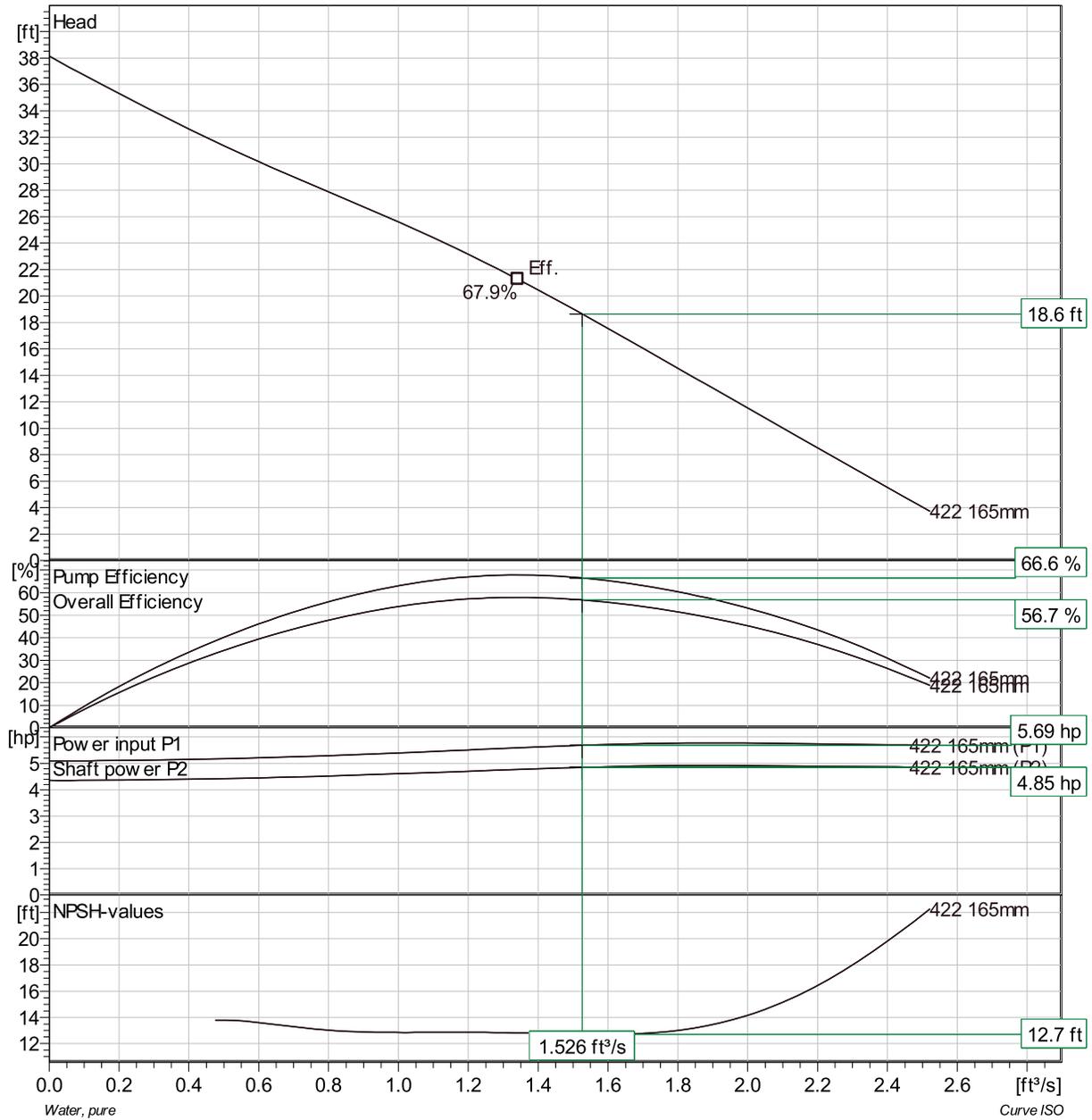
Pump

Discharge Flange Diameter 5 7/8 inch
 Suction Flange Diameter 150 mm
 Impeller diameter 6 1/2"
 Number of blades 2

Motor

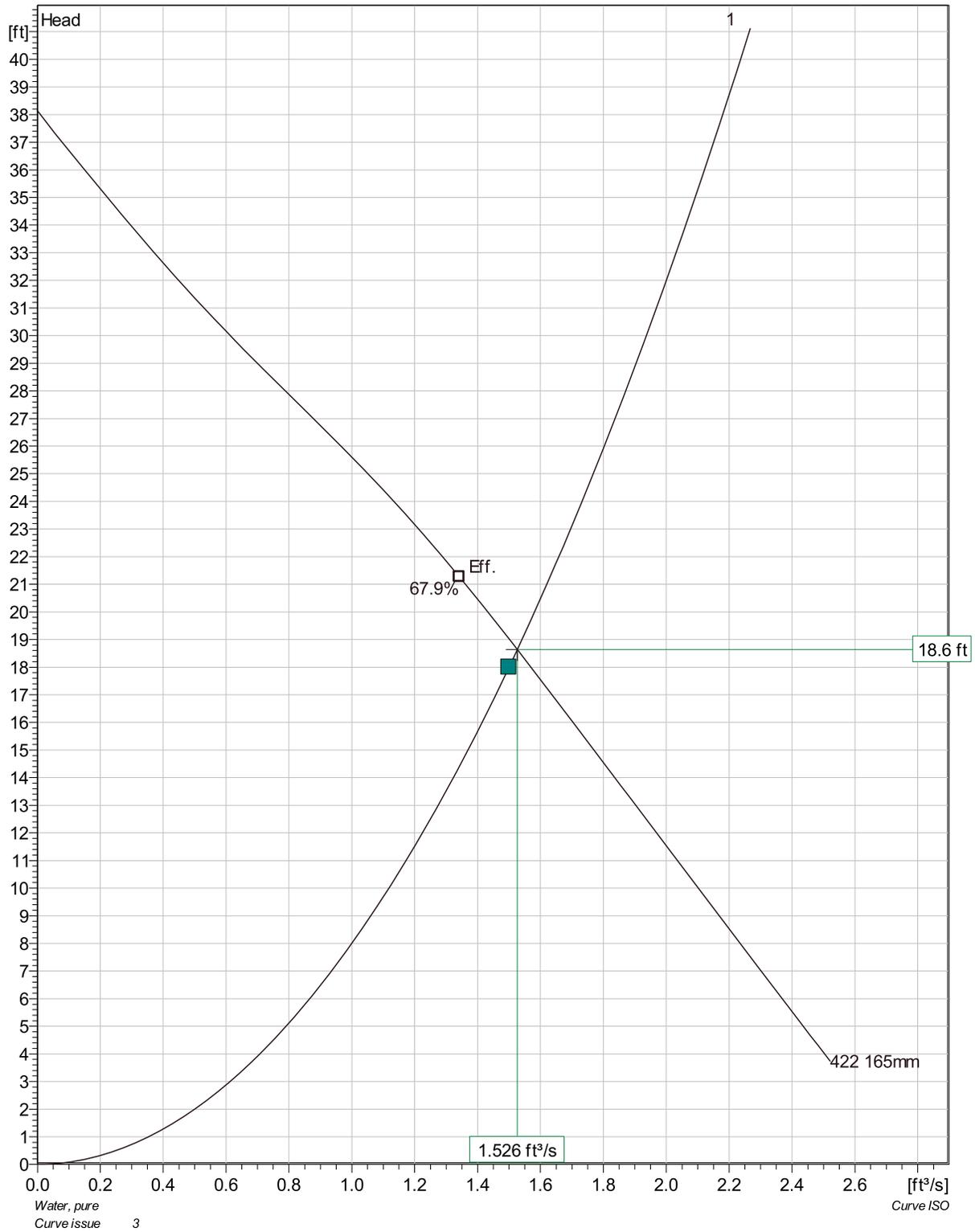
Motor # N3102.060 18-11-4AL-W 5hp
 Stator variant 1
 Frequency 60 Hz
 Rated voltage 460 V
 Number of poles 4
 Phases 3~
 Rated power 5 hp
 Rated current 6.8 A
 Starting current 42 A
 Rated speed 1745 rpm

Power factor
 1/1 Load 0.81
 3/4 Load 0.75
 1/2 Load 0.63
 Motor efficiency
 1/1 Load 85.1 %
 3/4 Load 85.3 %
 1/2 Load 83.6 %



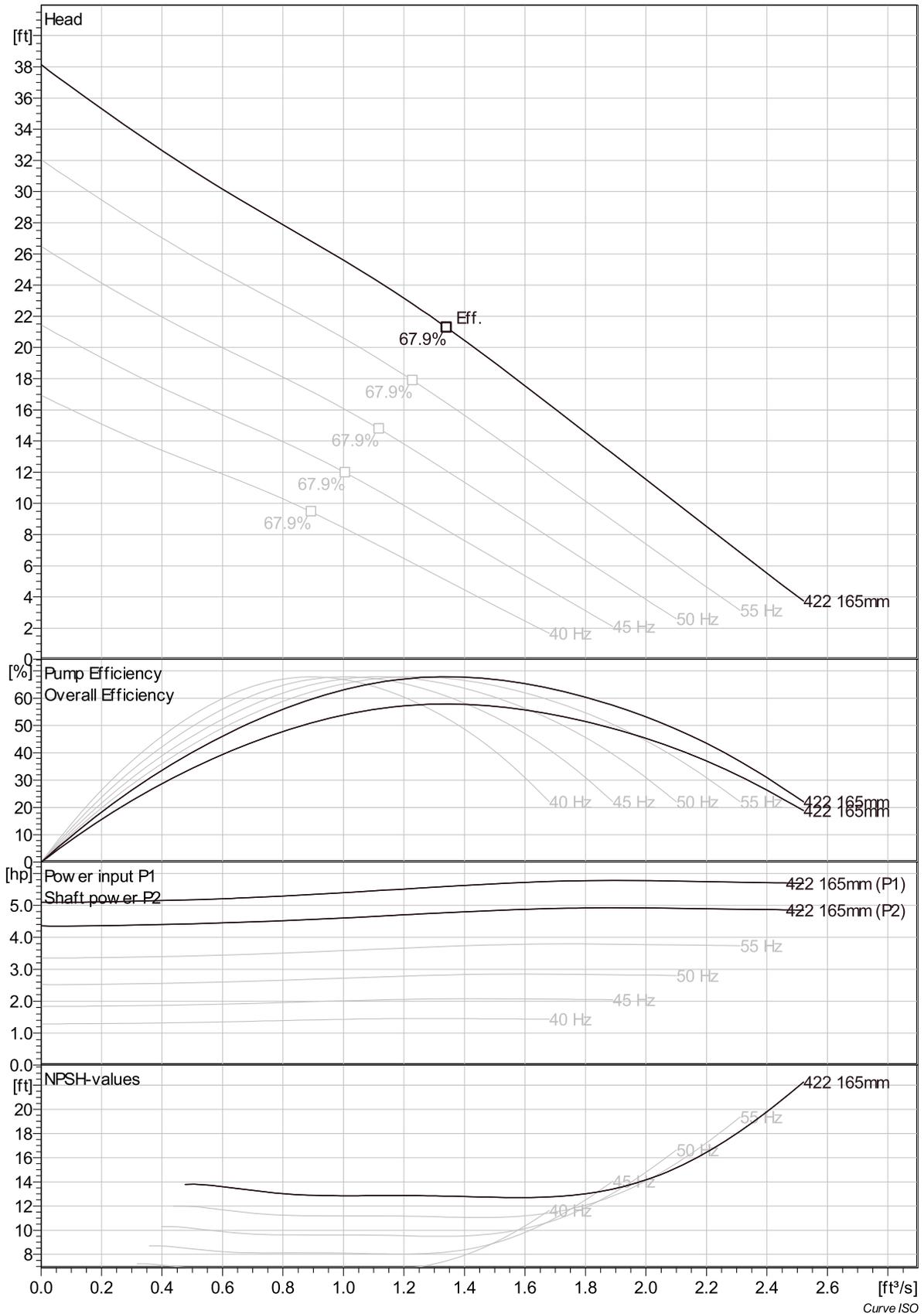
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NP 3102 LT 3~ Adaptive 422 Duty Analysis



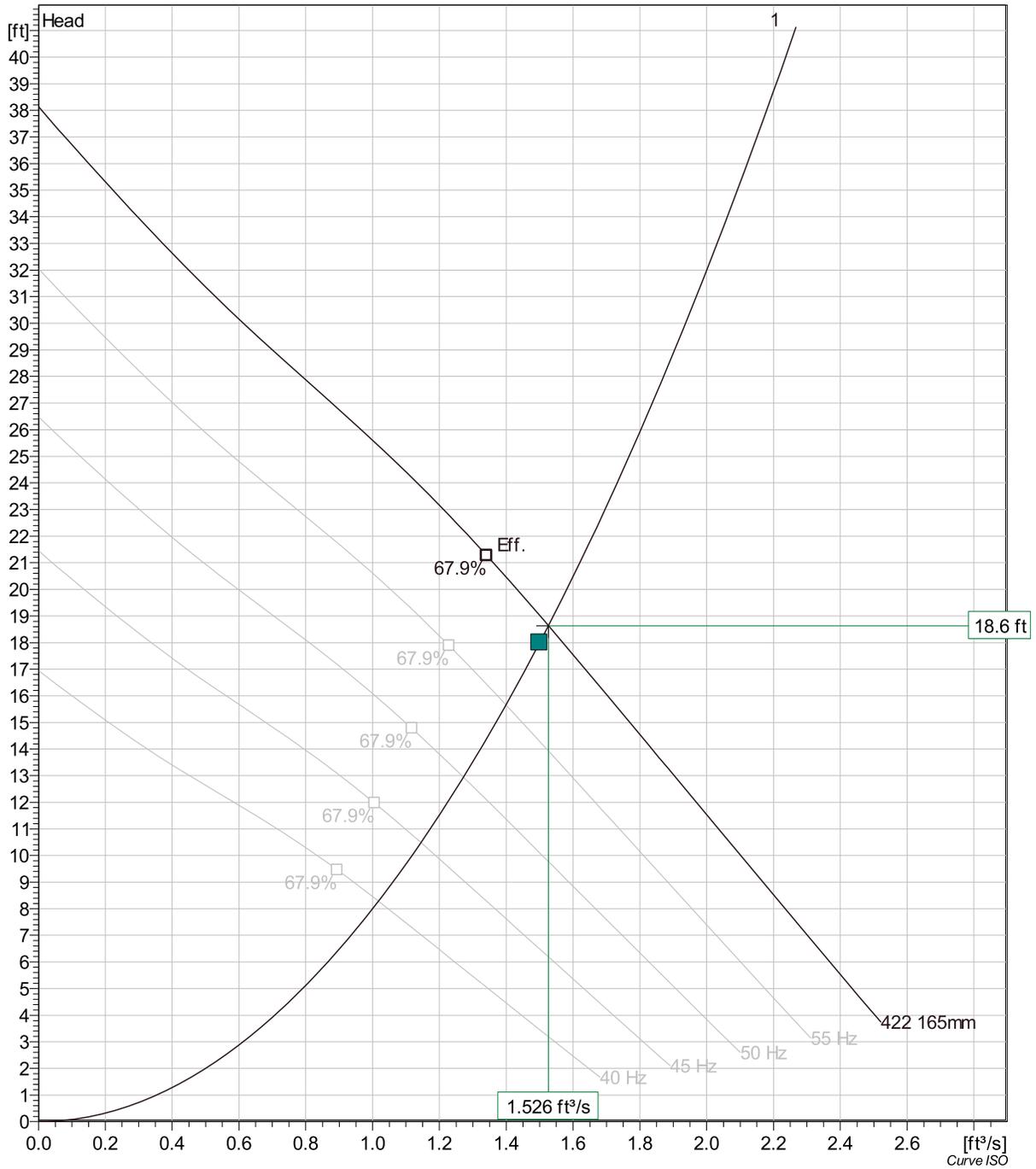
Pumps running /System	Individual pump			Total					
	Flow	Head	Shaft power	Flow	Head	Shaft power	Pump eff.	Specific energy	NPSHre
1	1.53 ft³/s	18.6 ft	4.85 hp	1.53 ft³/s	18.6 ft	4.85 hp	66.6 %	103 kWh/US MG	12.7 ft

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NP 3102 LT 3~ Adaptive 422 VFD Analysis



Pumps running /System	Frequency	Flow	Head	Shaft power	Flow	Head	Shaft power	Hyd eff.	Specific energy	NPSHre
1	60 Hz	1.53 ft³/s	18.6 ft	4.85 hp	1.53 ft³/s	18.6 ft	4.85 hp	66.6 %	103 kWh/US MG	12.7 ft
1	55 Hz	1.4 ft³/s	15.7 ft	3.73 hp	1.4 ft³/s	15.7 ft	3.73 hp	66.6 %	86.6 kWh/US MG	11.1 ft
1	50 Hz	1.27 ft³/s	12.9 ft	2.81 hp	1.27 ft³/s	12.9 ft	2.81 hp	66.6 %	72.5 kWh/US MG	9.5 ft
1	45 Hz	1.14 ft³/s	10.5 ft	2.05 hp	1.14 ft³/s	10.5 ft	2.05 hp	66.6 %	60.4 kWh/US MG	8.02 ft
1	40 Hz	1.02 ft³/s	8.28 ft	1.44 hp	1.02 ft³/s	8.28 ft	1.44 hp	66.6 %	50.4 kWh/US MG	6.64 ft

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