

ECOBOOST

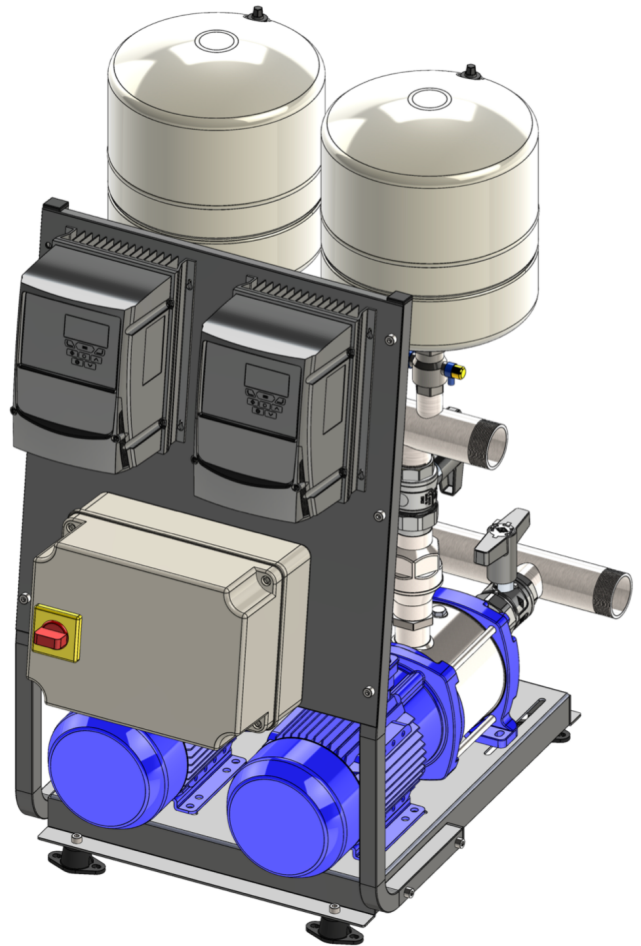
COLD WATER BOOSTER SET

Trebles ECOBOOST combines energy efficiency and performance whilst minimising space requirements. Manufactured with over 50 years of experience, this unit is a simple, high quality solution to your water boosting requirements.

Once installed the system pressure will constantly be monitored via a pressure transducer. When an outlet has been opened and a pressure drop is detected, the unit will automatically start and maintain the desired set point. Variable speed drives will only run the pump at the speed required thus saving huge amounts of energy compared to traditional methods of pump control.

The ECOBOOST range uses the latest horizontal multi-stage, stainless steel pumps equipped with IE3 motors in accordance with BS EN standards to ensure comfort, reliability and maximum energy efficiency.

Our wide pump range and numerous options and accessories help us to tailor an ECOBOOST unit to your specific requirements.



- | | |
|----------------------------|------------------------------|
| ✓ 2 Pump / 3 Pump | ✓ Flow Through Vessels |
| ✓ Duty/Standby with Assist | ✓ Anti-Vibration Mounts |
| ✓ 230V / 400V | ✓ Dry Run Protection |
| ✓ Auto-Changeover | ✓ Volt Free Contacts for BMS |
| ✓ Variable Speed | ✓ Overload Protection |
| ✓ Constant Pressure | ✓ 2 Year Guarantee |



General Characteristics

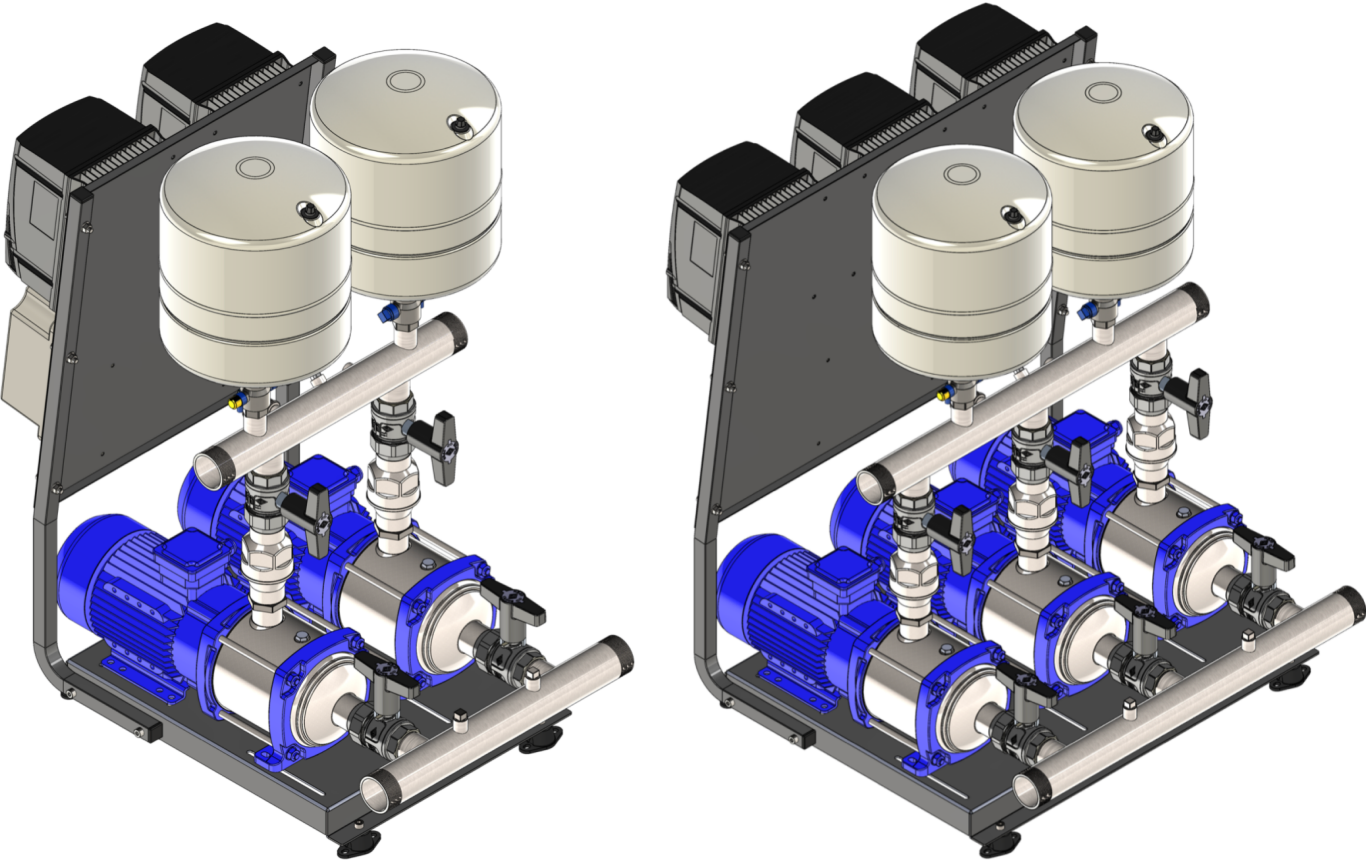
		5221	5222
General	Pumps	2	3
	Mounting	Floor Mounted	
	Potable Water	Yes	
Operating Conditions	Pressure Rating	PN10	
	Ambient Temperature	-15°C / 50°C	
	Water Temperature	-10°C / 60°C	
	Relative Humidity	95% non-condensing	
Materials	Manifolds	AISI 304	
	Check Valves	AISI 304	
	Isolation Valves	CW617N UNI EN 12165	
	FlowThru Valve	CW617N UNI EN 12165	
	Fittings	AISI 304 / AISI 316	
	Transducer	AISI 304	
	Pressure Gauge	Brass Connection	
	Base / Frame	Mild Steel, Powder Coated (RAL 7016)	

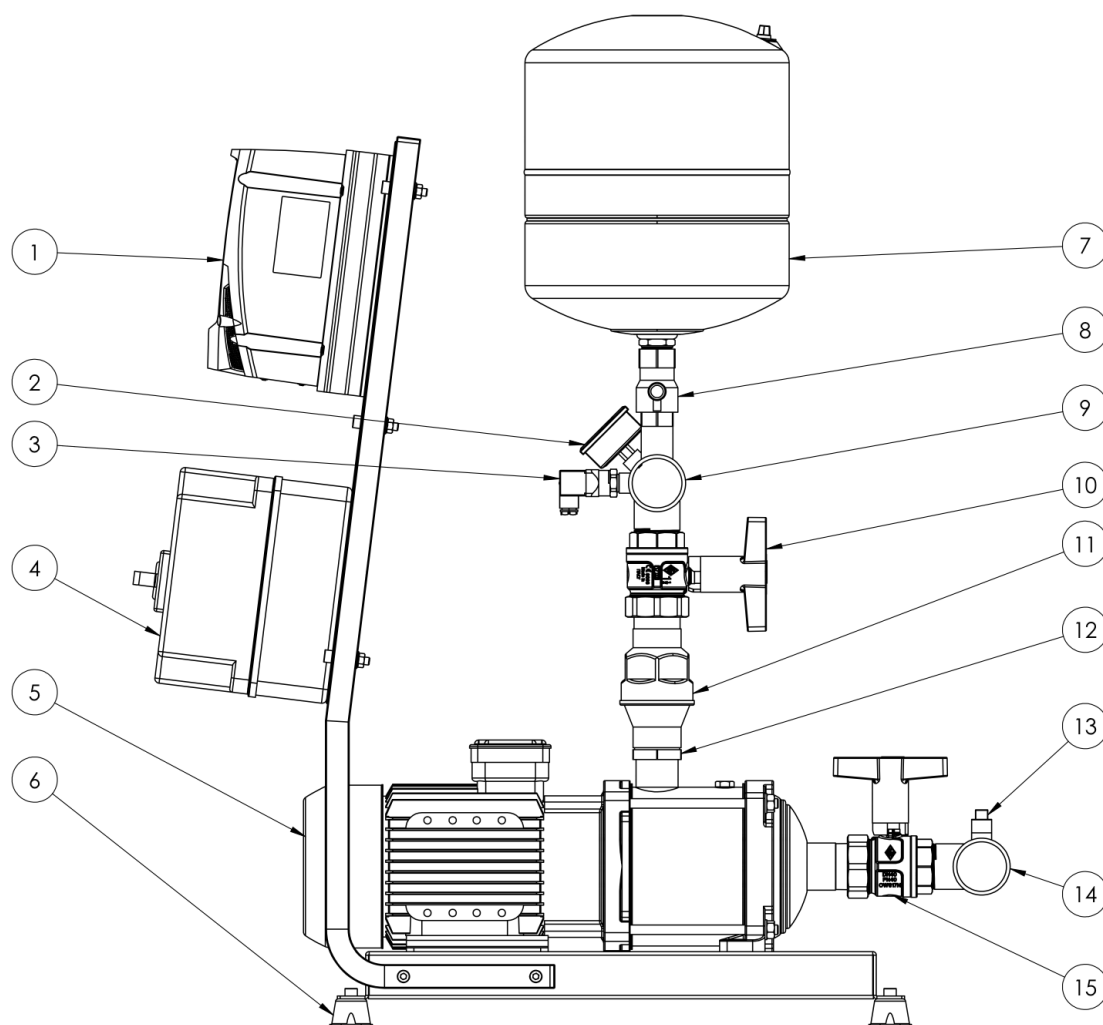
Connections	3HM	5HM	10HM	15HM	22HM
Inlet	1-1/4" Male BSP	1-1/2" Male BSP	2" Male BSP	2-1/2" Male BSP	
Outlet					
Vessel	1" Female BSP				
Spare Ports	1/4" Female BSP				

MOTOR NOISE 2-POLE

Power (kW)	0.3	0.4	0.5	0.55	0.75	0.95	1.1	1.5	2.2	3.0	4.0
Noise LpA (dB)	52			55			60				

Example Model Code: 5221-10HM04S-INV/1									
5221	-	10	HM	04	S	-	INV	/	1
5221 2-Pump		Flow Rate (m³/hr)	H Horizontal	Number of Impellers	Impeller Material		Control Method		Supply Voltage
5222 3-Pump		Per Pump	M Multi-stage		S = AISI 304 N = AISI 316 P = Noryl		INV Variable Speed FS Fixed Speed		1 = 230V Single Phase 3 = 400V Three Phase

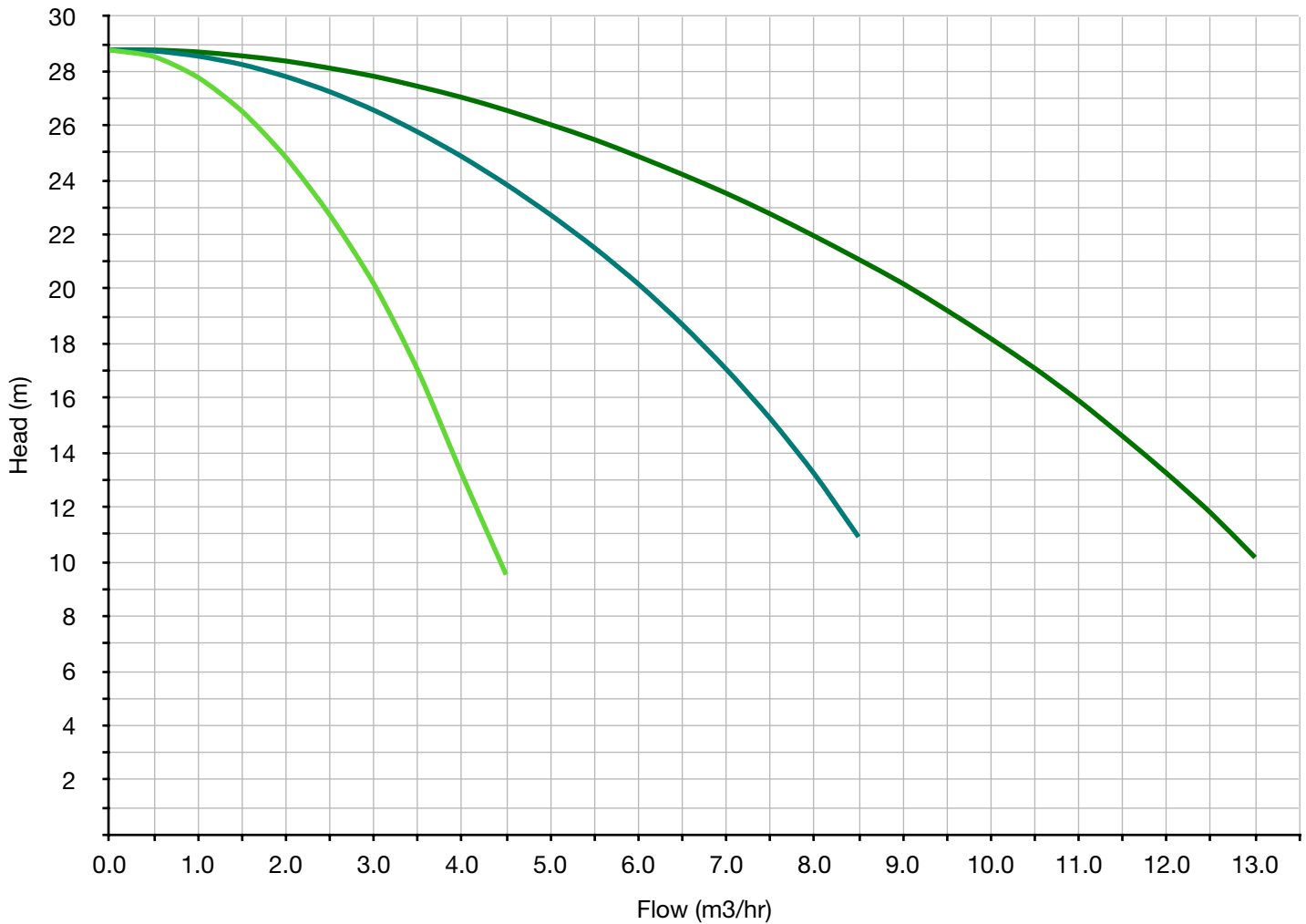




1	Variable Speed Inverter	9	Outlet Manifold
2	Pressure Gauge	10	Isolation Valve
3	Pressure Transducer	11	Check Valve
4	Control Panel with Isolator	12	Hex Nipple
5	Horizontal Multi-Stage Pump	13	Hex Plug
6	Anti-Vibration Mounts	14	Inlet Manifold
7	Pressure Vessel (18L / 10 Bar)	15	Isolation Valve
8	FlowThru Adaptor Valve		2 x BSP Manifold Caps (supplied loose)

3HM04S

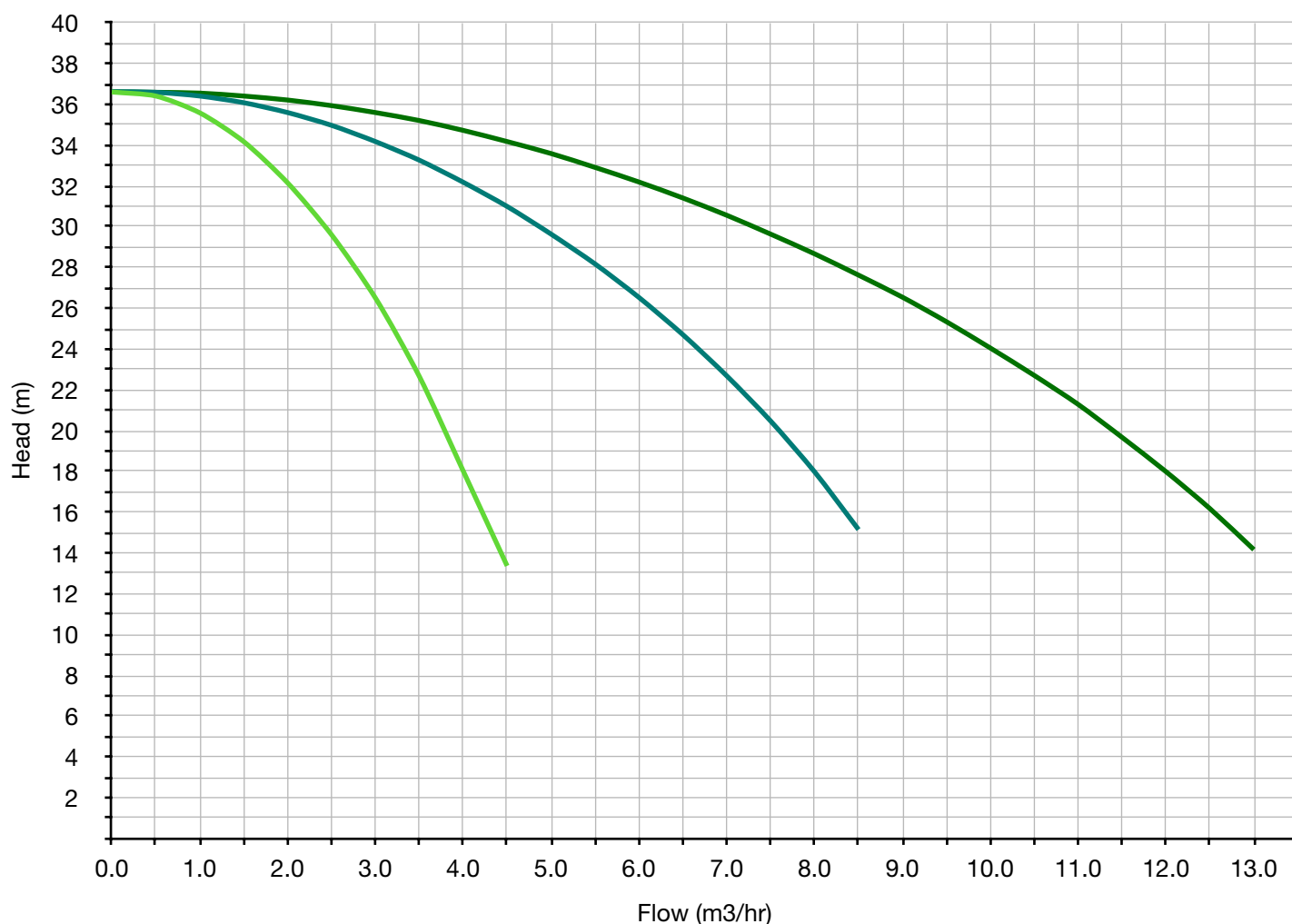
1-PUMP 2-PUMP 3-PUMP



		(5221) 2-PUMP	(5222) 3-PUMP
Performance	Flow (max)	8.8 m³/hr	13.2 m³/hr
	Head (Q=0)	29m	
	Head (Qmax)	9.6m	
	Head (Qmin)	19m	
Electrical 230V	Supply	230/1/50	
	Power (kW)	0.6	0.9
	Full Load Current (A)	7.2	10.2
Electrical 400V	Supply	400/3/50	
	Power (kW)	0.6	0.9
	Full Load Current (A)	3.0	4.1

3HM05S

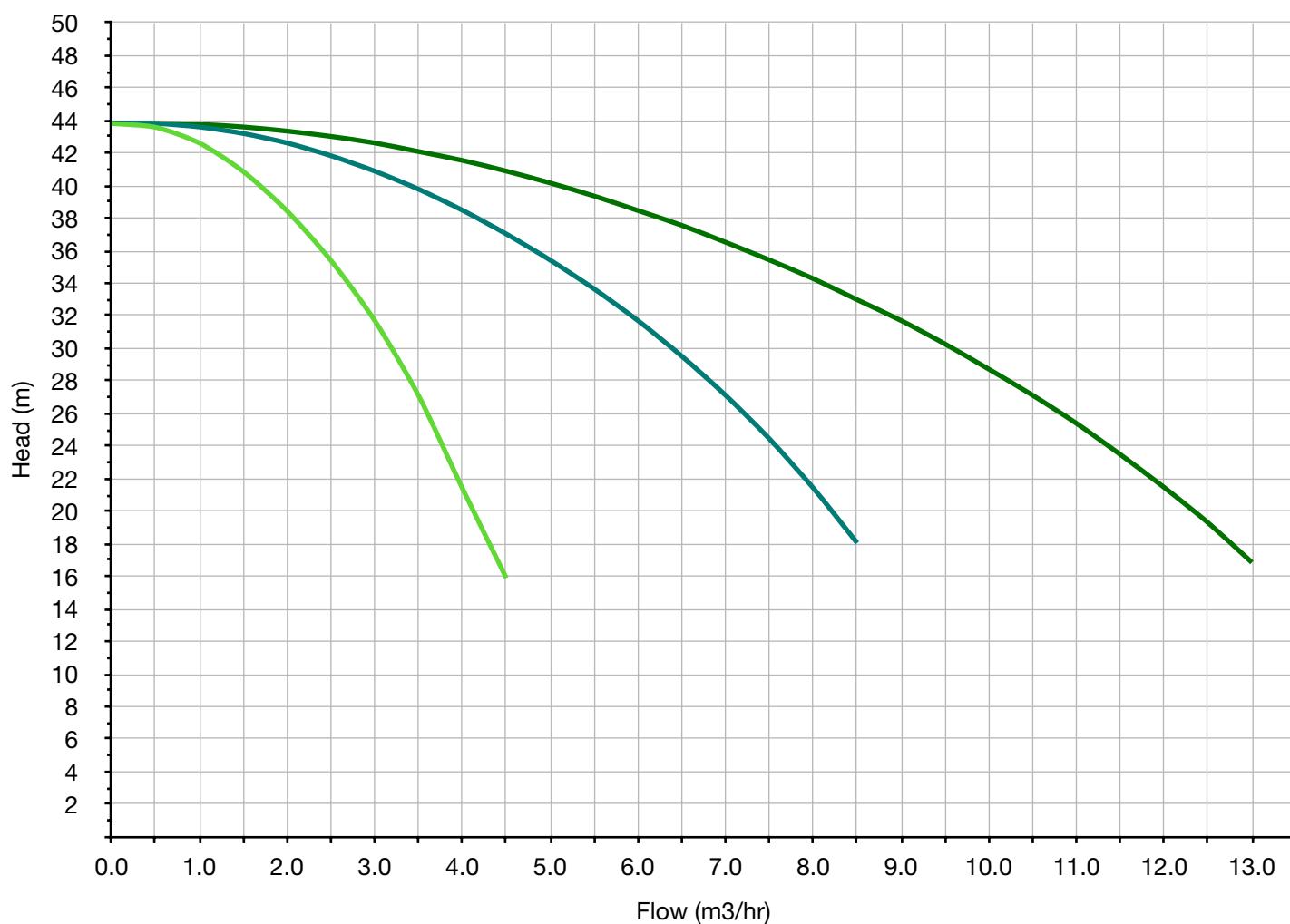
— 1-PUMP — 2-PUMP — 3-PUMP



		(5221) 2-PUMP	(5222) 3-PUMP
Performance	Flow (max)	8.8 m³/hr	13.2 m³/hr
	Head (Q=0)	37m	
	Head (Qmax)	13.4m	
	Head (Qmin)	27m	
Electrical 230V	Supply	230/1/50	
	Power (kW)	0.8	1.2
	Full Load Current (A)	9.7	14.0
Electrical 400V	Supply	400/3/50	
	Power (kW)	0.8	1.2
	Full Load Current (A)	3.9	5.3

3HM06S

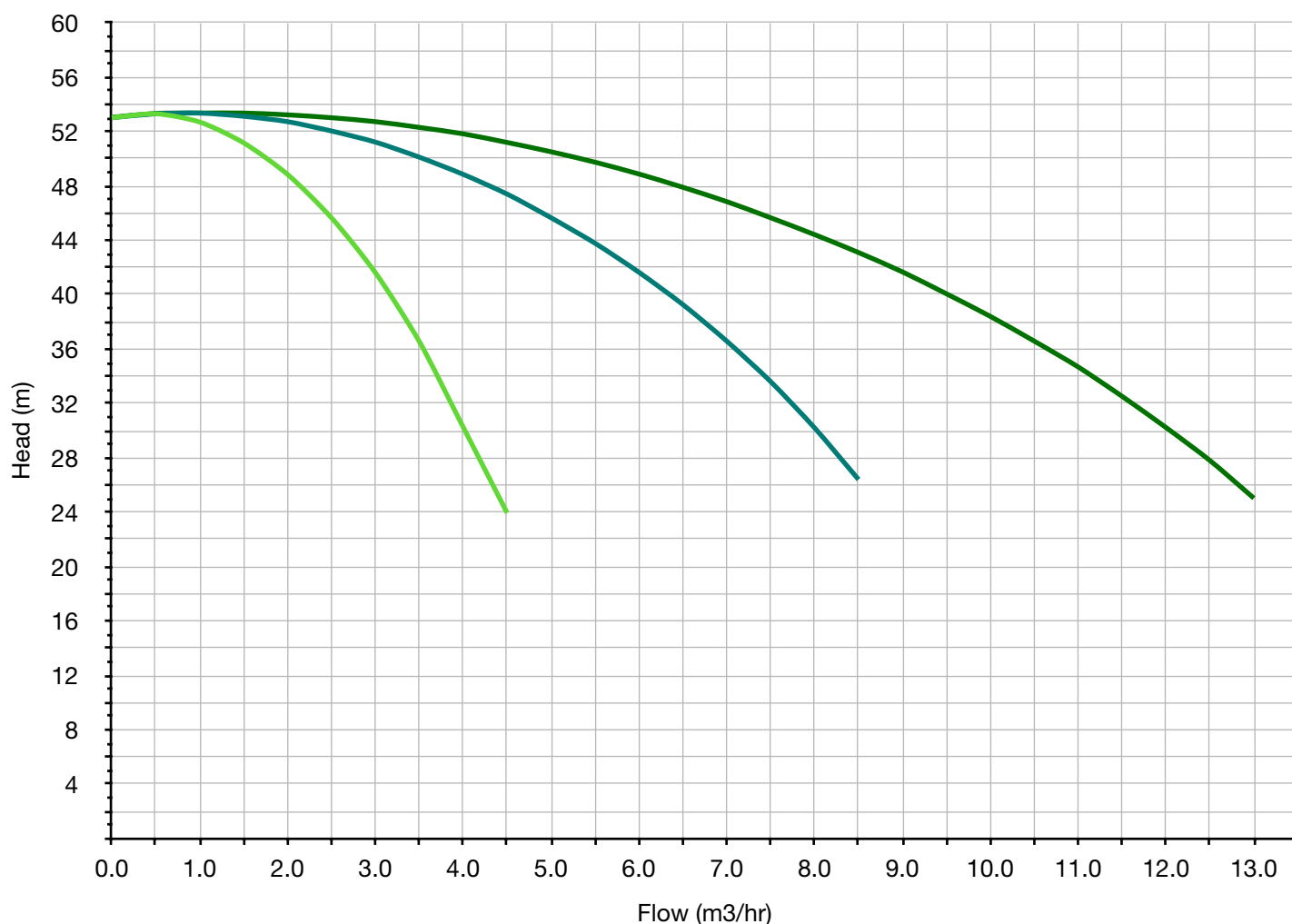
— 1-PUMP — 2-PUMP — 3-PUMP



		(5221) 2-PUMP	(5222) 3-PUMP
Performance	Flow (max)	8.8 m³/hr	13.2 m³/hr
	Head (Q=0)	44m	
	Head (Qmax)	15.9m	
	Head (Qmin)	34m	
Electrical 230V	Supply	230/1/50	
	Power (kW)	1.0	1.5
	Full Load Current (A)	10.5	15.2
Electrical 400V	Supply	400/3/50	
	Power (kW)	1.0	1.5
	Full Load Current (A)	4.2	5.7

3HM07S

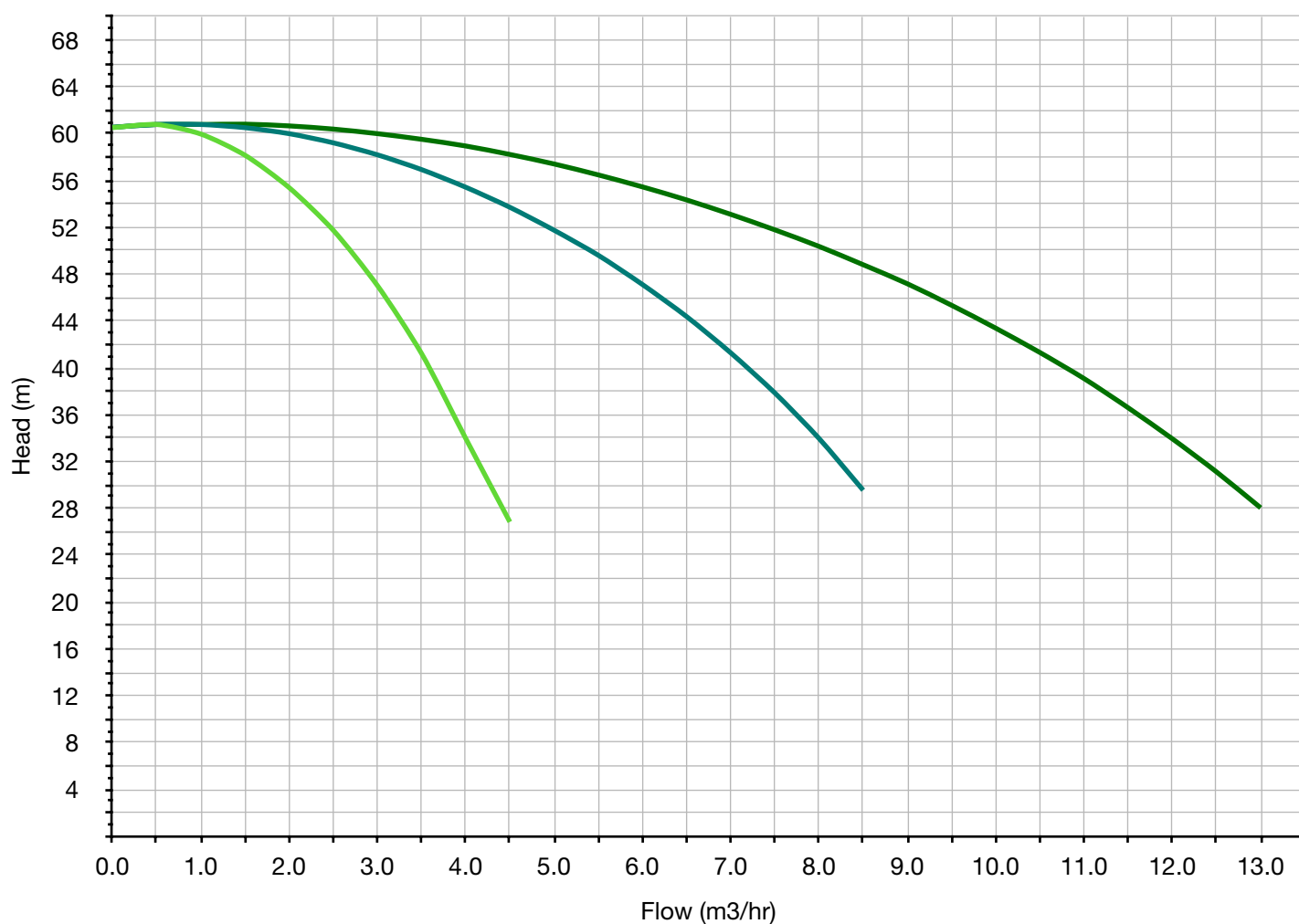
— 1-PUMP — 2-PUMP — 3-PUMP



		(5221) 2-PUMP	(5222) 3-PUMP
Performance	Flow (max)	8.8 m³/hr	13.2 m³/hr
	Head (Q=0)	53m	
	Head (Qmax)	24m	
	Head (Qmin)	43m	
Electrical 230V	Supply	230/1/50	
	Power (kW)	1.5	2.25
	Full Load Current (A)	10.2	14.8
Electrical 400V	Supply	400/3/50	
	Power (kW)	1.5	2.25
	Full Load Current (A)	4.1	5.6

3HM08S

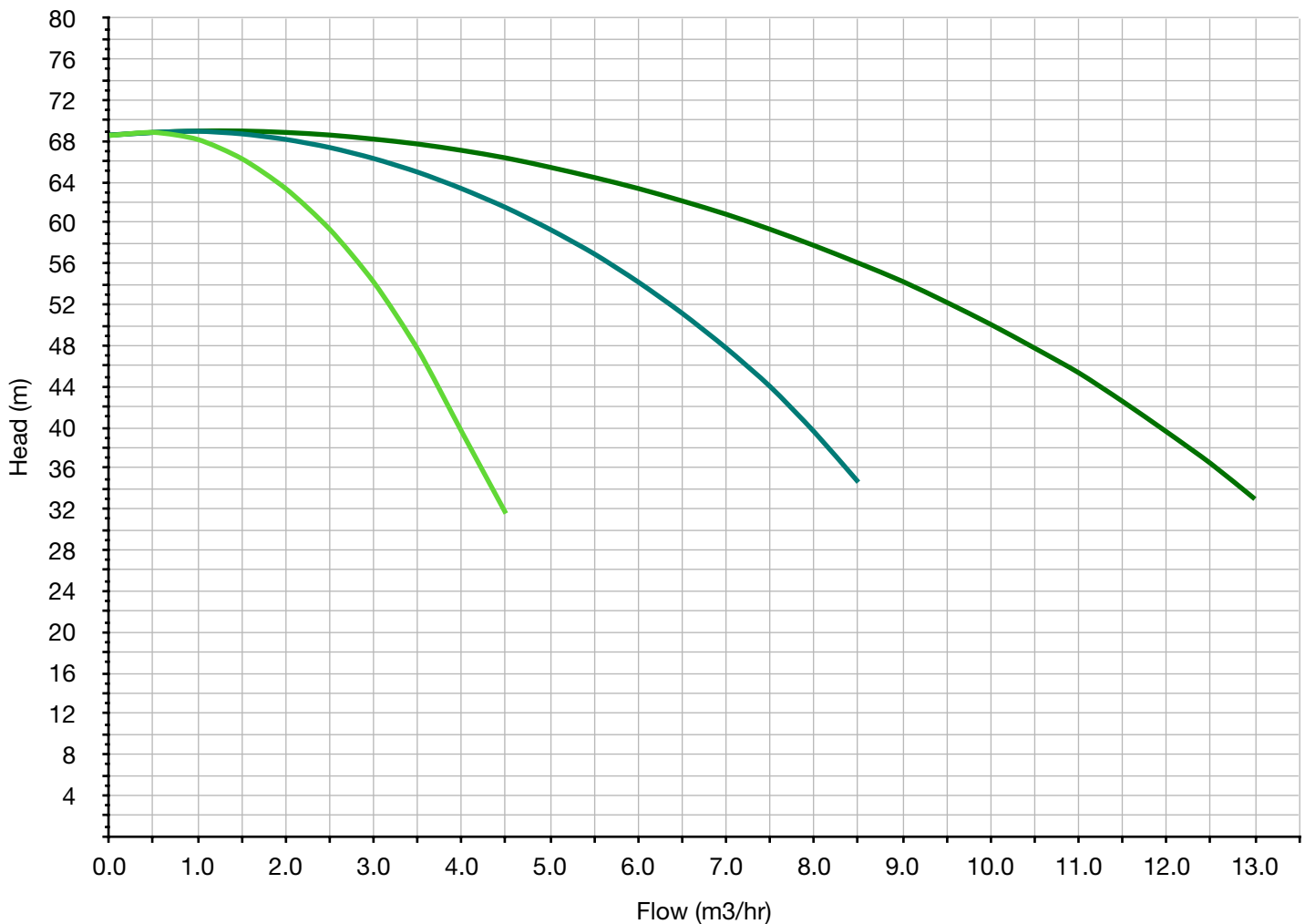
— 1-PUMP — 2-PUMP — 3-PUMP



		(5221) 2-PUMP	(5222) 3-PUMP
Performance	Flow (max)	8.8 m³/hr	13.2 m³/hr
	Head (Q=0)	60m	
	Head (Qmax)	26.8m	
	Head (Qmin)	50m	
Electrical 230V	Supply	230/1/50	
	Power (kW)	1.5	2.25
	Full Load Current (A)	10.8	15.7
Electrical 400V	Supply	400/3/50	
	Power (kW)	1.5	2.25
	Full Load Current (A)	4.3	5.9

3HM09S

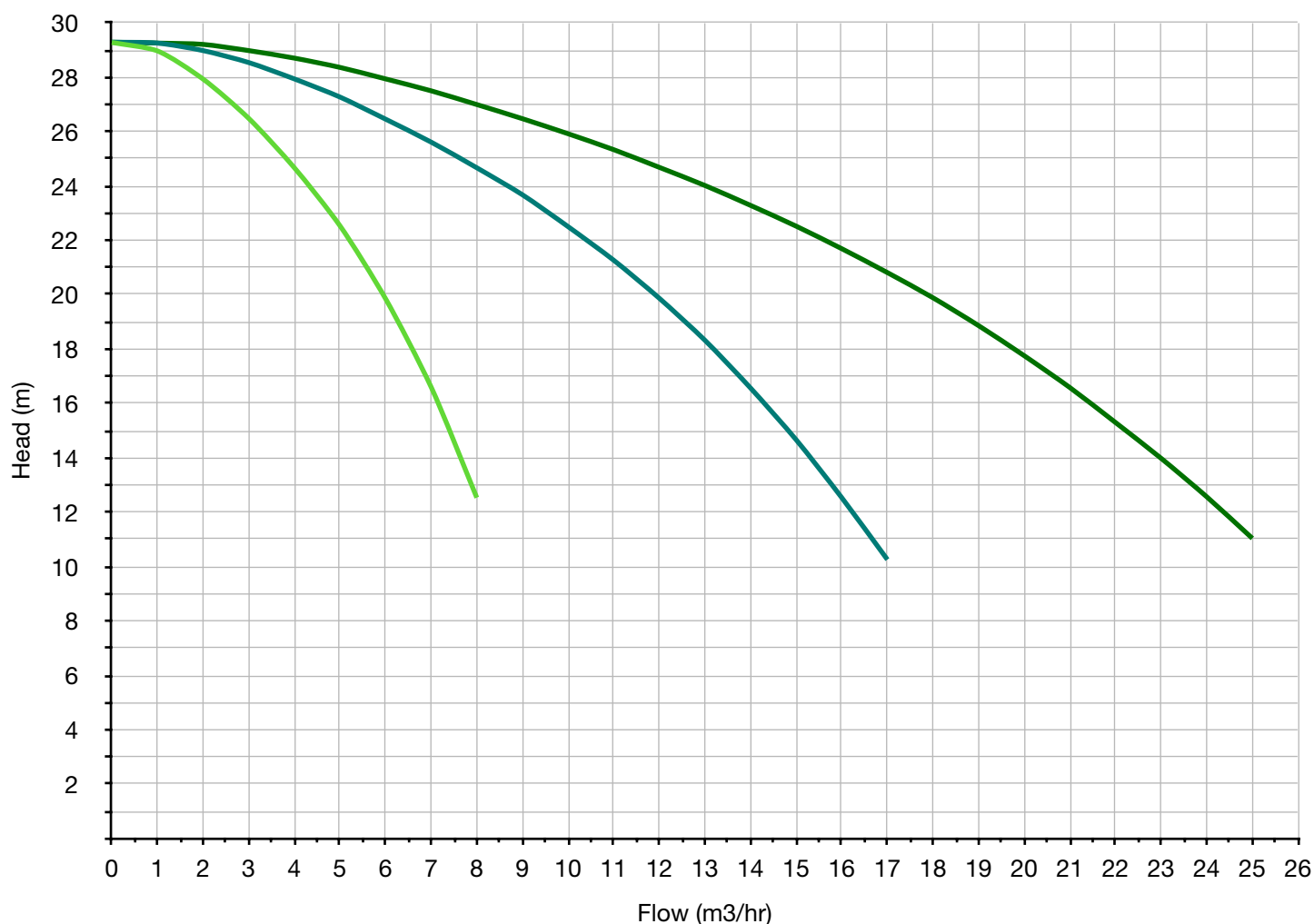
— 1-PUMP — 2-PUMP — 3-PUMP



		(5221) 2-PUMP	(5222) 3-PUMP
Performance	Flow (max)	8.8 m ³ /hr	13.2 m ³ /hr
	Head (Q=0)	68m	
	Head (Qmax)	31.5m	
	Head (Qmin)	58m	
Electrical 230V	Supply	230/1/50	
	Power (kW)	2.2	3.3
	Full Load Current (A)	13.0	19.1
Electrical 400V	Supply	400/3/50	
	Power (kW)	2.2	3.3
	Full Load Current (A)	5.0	7.1

5HM04S

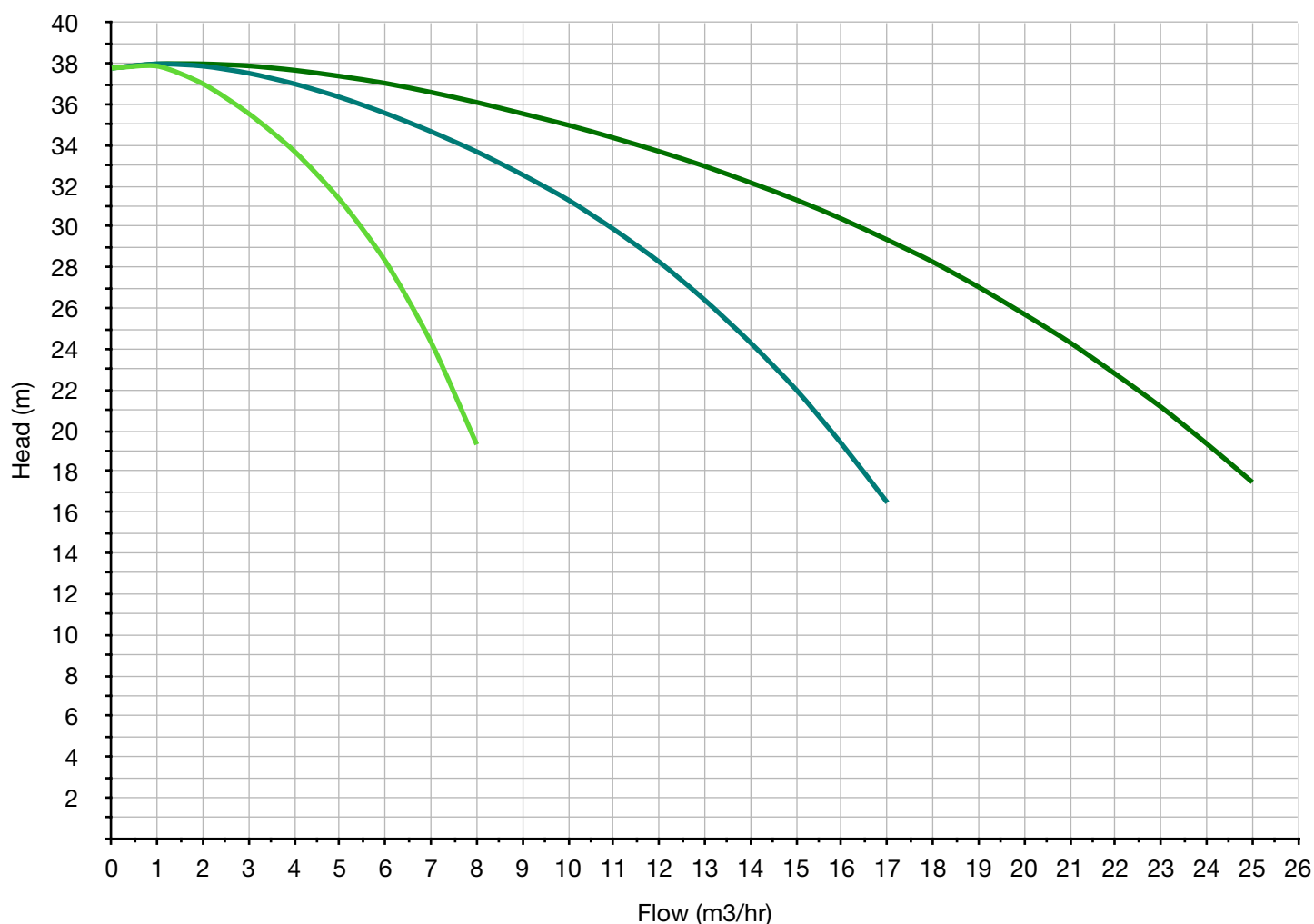
— 1-PUMP — 2-PUMP — 3-PUMP



		(5221) 2-PUMP	(5222) 3-PUMP
Performance	Flow (max)	17 m³/hr	25.5 m³/hr
	Head (Q=0)	29m	
	Head (Qmax)	10.2m	
	Head (Qmin)	18m	
Electrical 230V	Supply	230/1/50	
	Power (kW)	1.0	1.5
	Full Load Current (A)	10.6	15.4
Electrical 400V	Supply	400/3/50	
	Power (kW)	1.0	1.5
	Full Load Current (A)	4.2	5.8

5HM05S

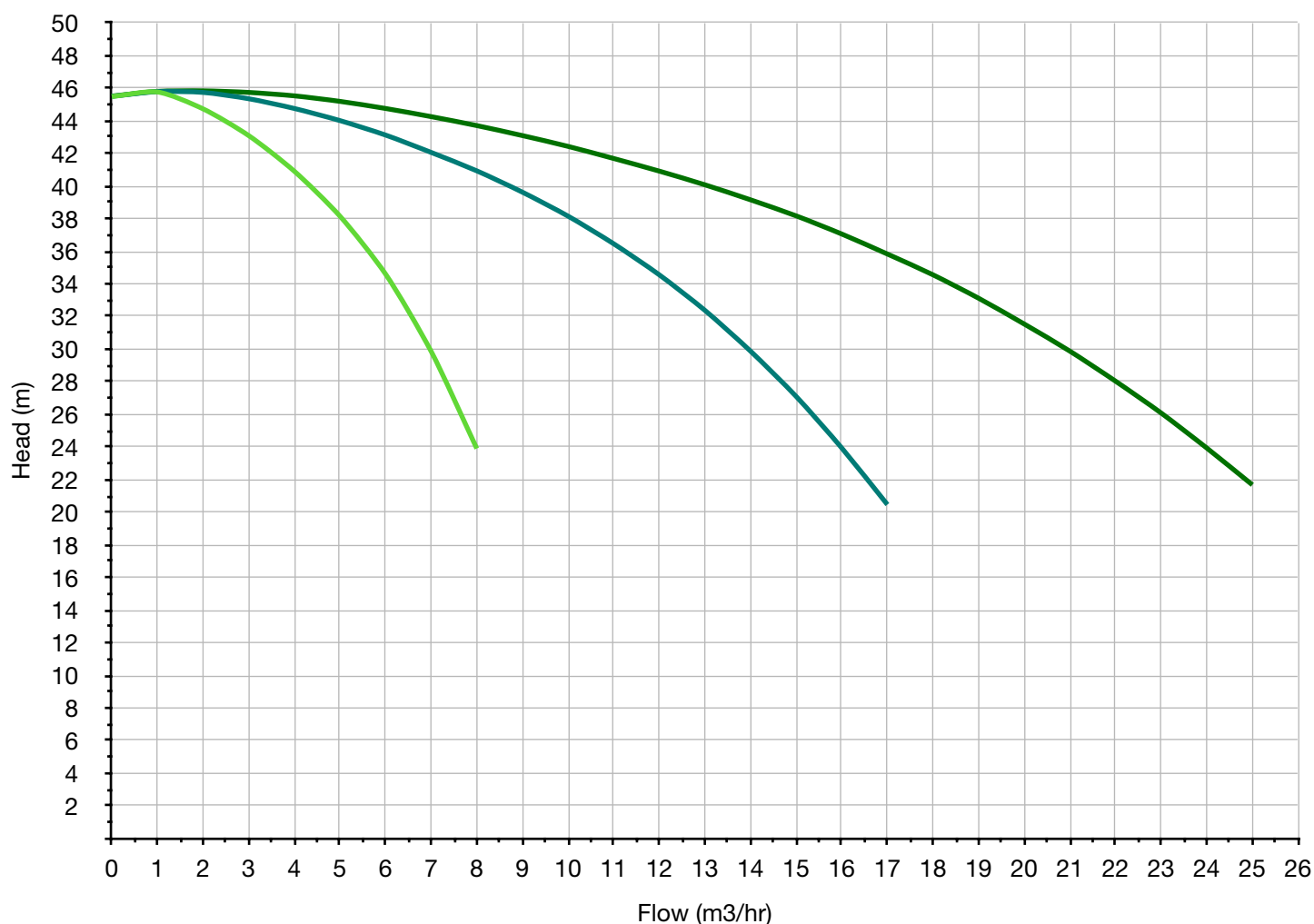
— 1-PUMP — 2-PUMP — 3-PUMP



		(5221) 2-PUMP	(5222) 3-PUMP
Performance	Flow (max)	17 m³/hr	25.5 m³/hr
	Head (Q=0)	38m	
	Head (Qmax)	16.4m	
	Head (Qmin)	28m	
Electrical 230V	Supply	230/1/50	
	Power (kW)	1.5	2.25
	Full Load Current (A)	10.8	15.7
Electrical 400V	Supply	400/3/50	
	Power (kW)	1.5	2.25
	Full Load Current (A)	4.3	5.9

5HM06S

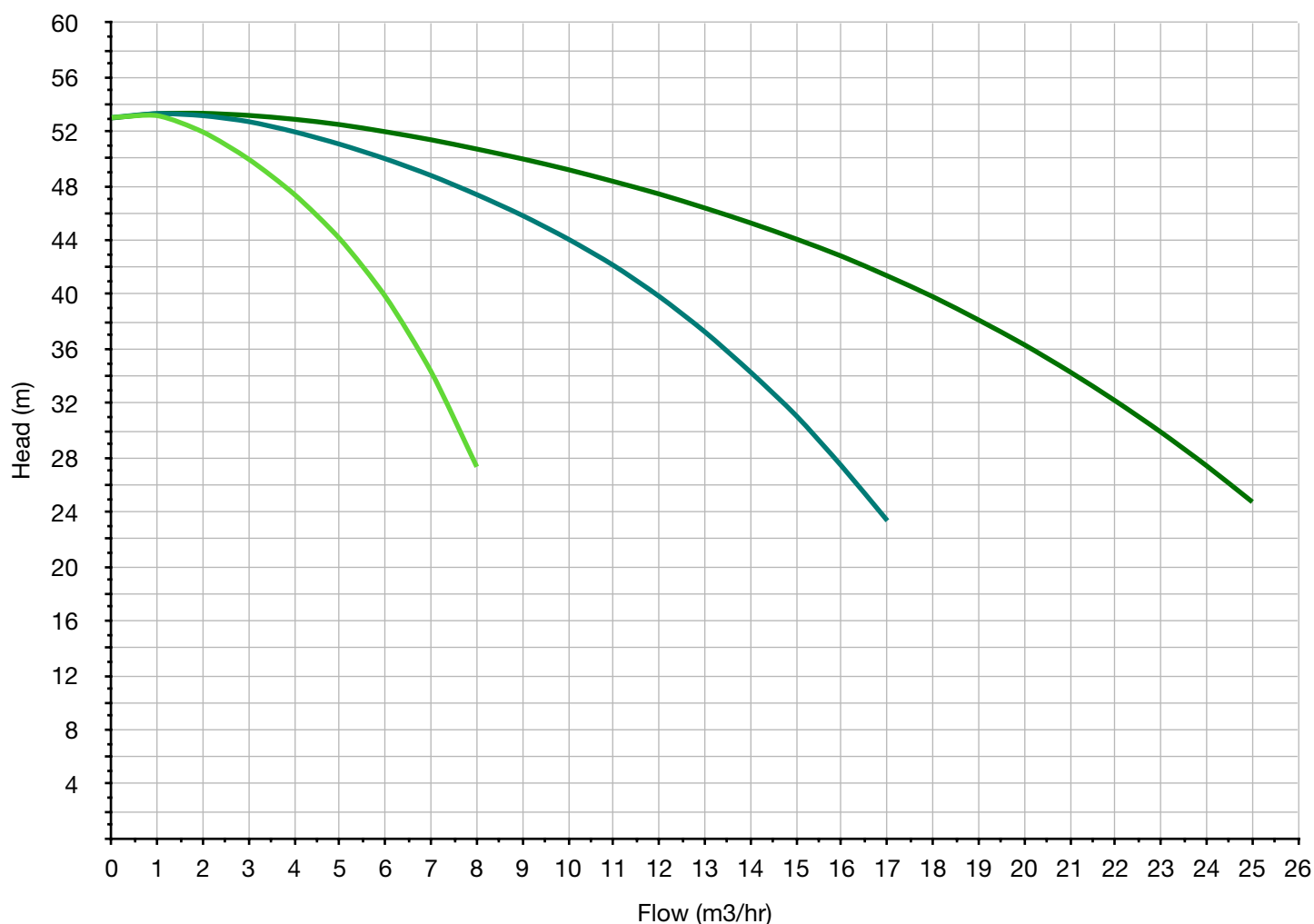
— 1-PUMP — 2-PUMP — 3-PUMP



		(5221) 2-PUMP	(5222) 3-PUMP
Performance	Flow (max)	17 m³/hr	25.5 m³/hr
	Head (Q=0)	46m	
	Head (Qmax)	20.4m	
	Head (Qmin)	36m	
Electrical 230V	Supply	230/1/50	
	Power (kW)	2.2	3.3
	Full Load Current (A)	13.5	19.7
Electrical 400V	Supply	400/3/50	
	Power (kW)	2.2	3.3
	Full Load Current (A)	5.2	7.2

5HM07S

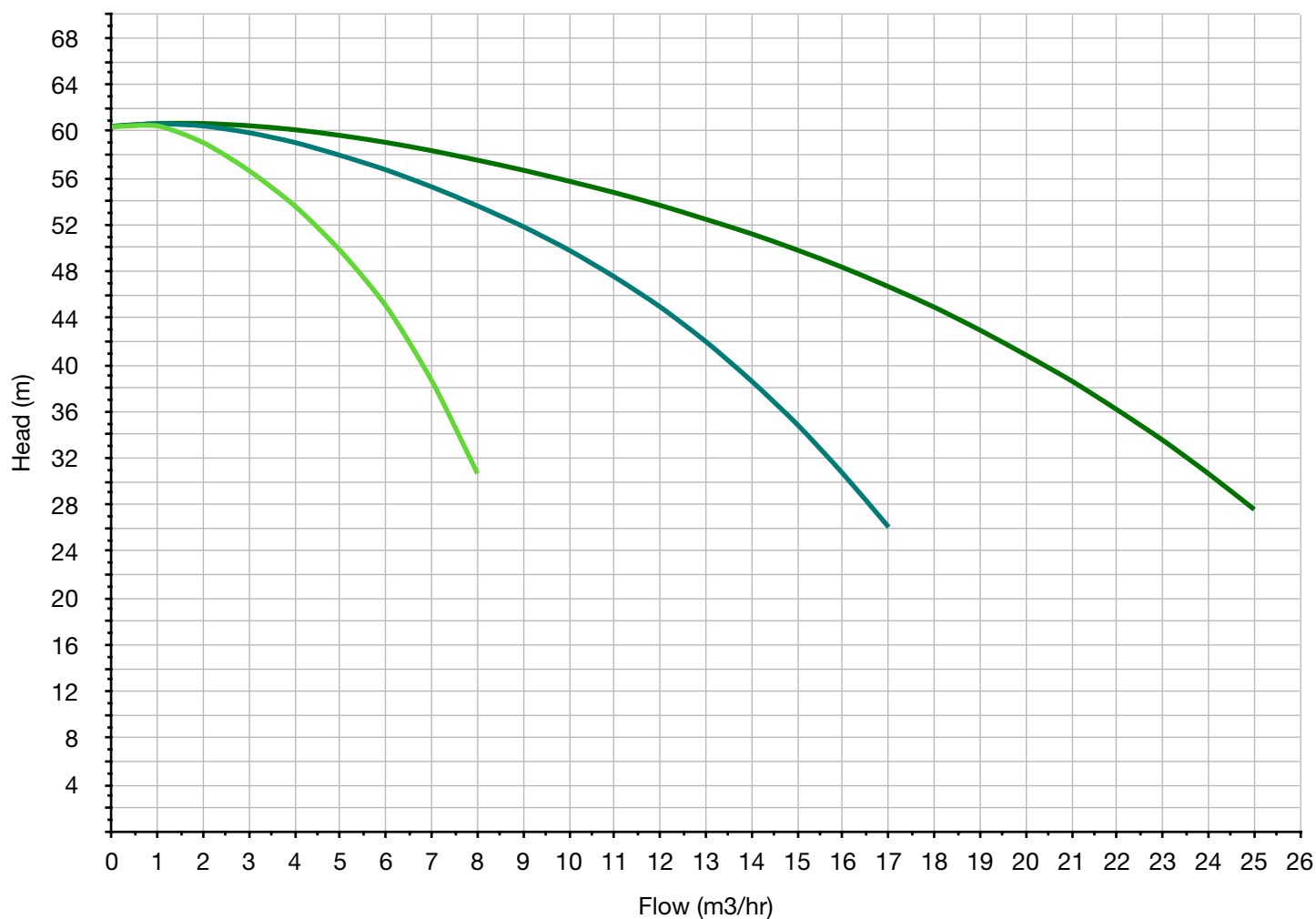
— 1-PUMP — 2-PUMP — 3-PUMP



		(5221) 2-PUMP	(5222) 3-PUMP
Performance	Flow (max)	17 m³/hr	25.5 m³/hr
	Head (Q=0)	53m	
	Head (Qmax)	23.2m	
	Head (Qmin)	43m	
Electrical 230V	Supply	230/1/50	
	Power (kW)	2.2	3.3
	Full Load Current (A)	14.4	21.2
Electrical 400V	Supply	400/3/50	
	Power (kW)	2.2	3.3
	Full Load Current (A)	5.5	7.7

5HM08S

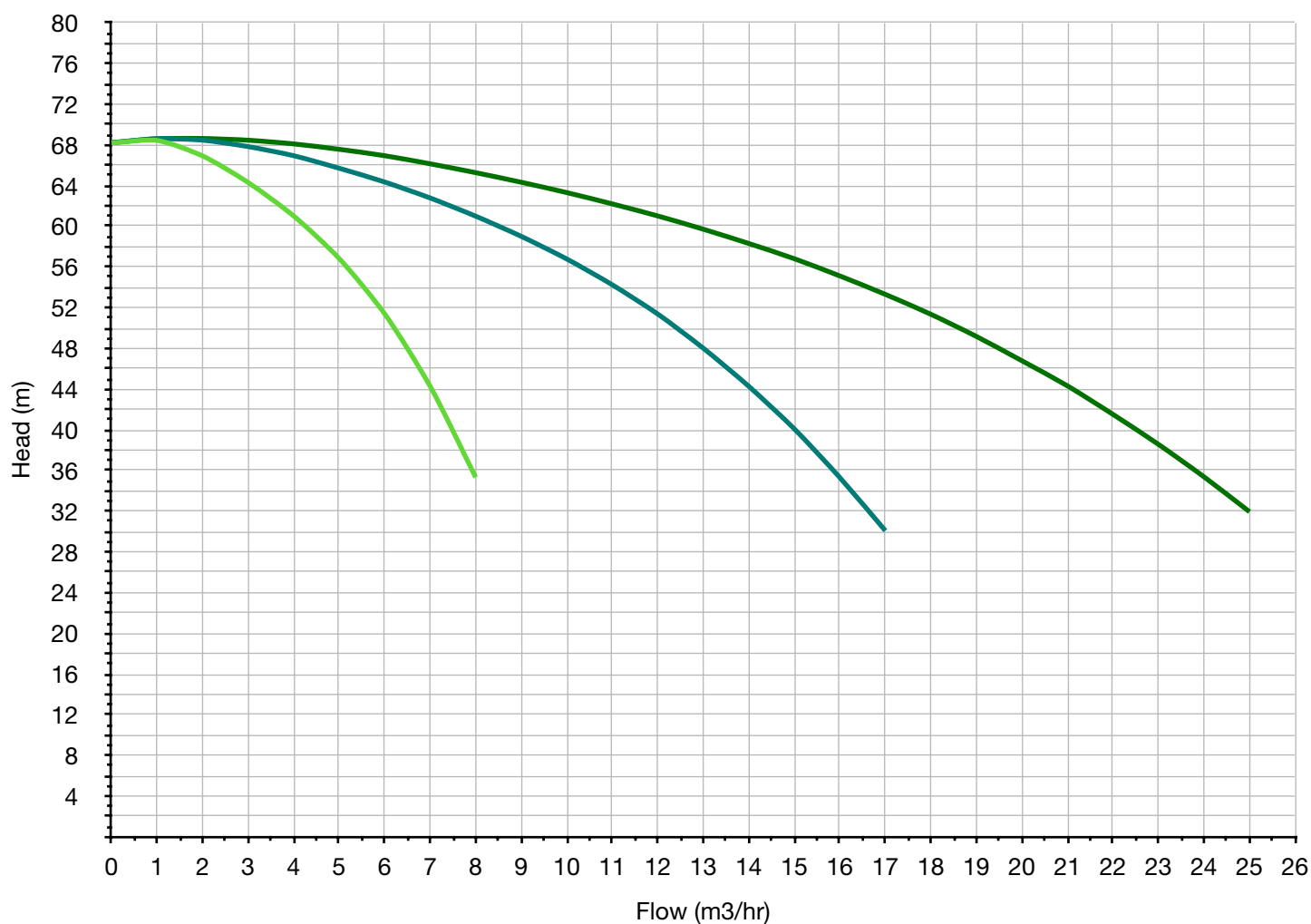
— 1-PUMP — 2-PUMP — 3-PUMP



		(5221) 2-PUMP	(5222) 3-PUMP
Performance	Flow (max)	17 m³/hr	25.5 m³/hr
	Head (Q=0)	60m	
	Head (Qmax)	25.9m	
	Head (Qmin)	50m	
Electrical 230V	Supply	230/1/50	
	Power (kW)	2.2	3.3
	Full Load Current (A)	15.5	22.7
Electrical 400V	Supply	400/3/50	
	Power (kW)	2.2	3.3
	Full Load Current (A)	5.8	8.2

5HM09S

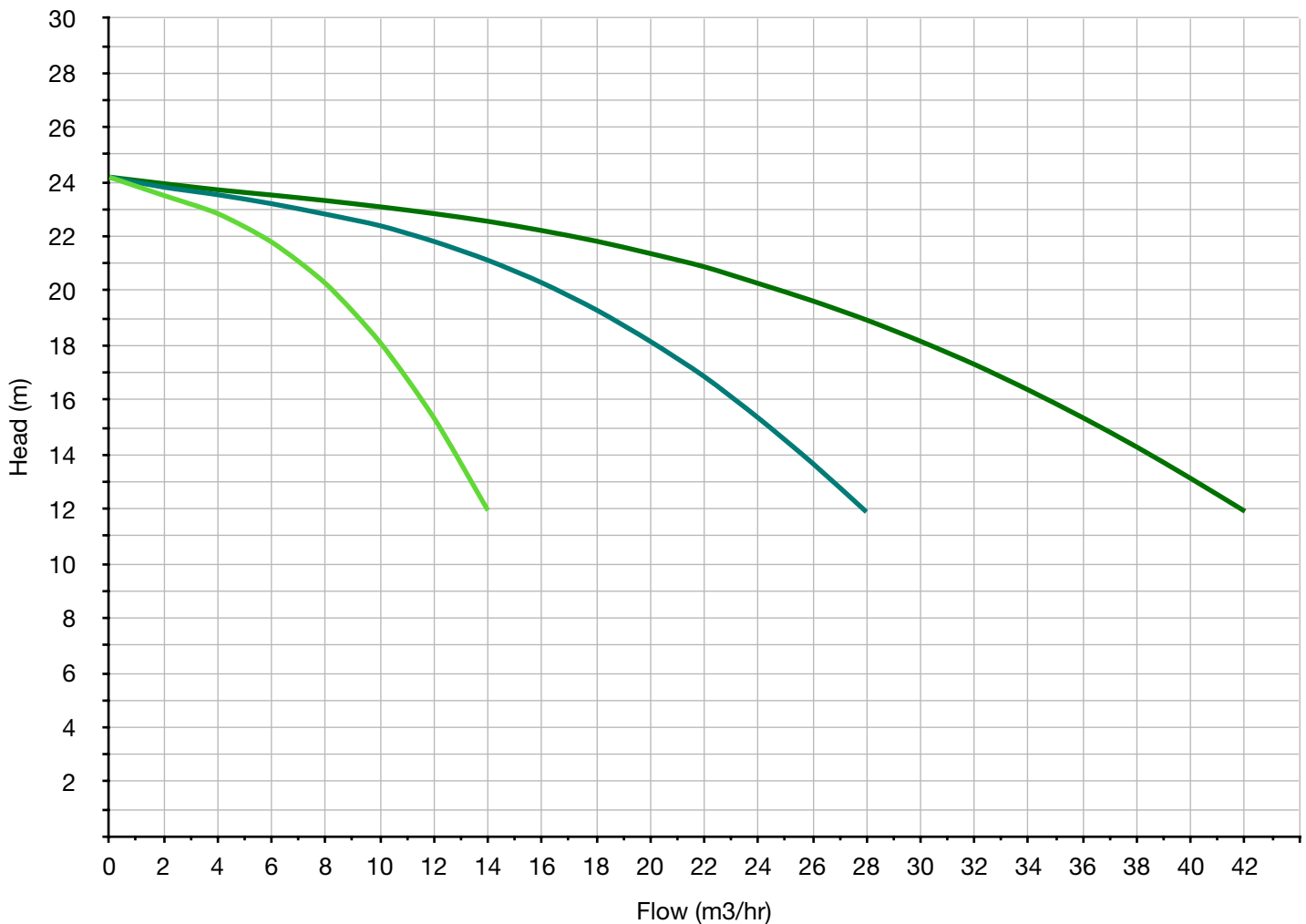
— 1-PUMP — 2-PUMP — 3-PUMP



		(5221) 2-PUMP	(5222) 3-PUMP
Performance	Flow (max)	17 m³/hr	25.5 m³/hr
	Head (Q=0)	68m	
	Head (Qmax)	30m	
	Head (Qmin)	58m	
Electrical 230V	Supply	230/1/50	
	Power (kW)	3.0	4.5
	Full Load Current (A)	18.2	26.8
Electrical 400V	Supply	400/3/50	
	Power (kW)	3.0	4.5
	Full Load Current (A)	6.7	9.6

10HM02S

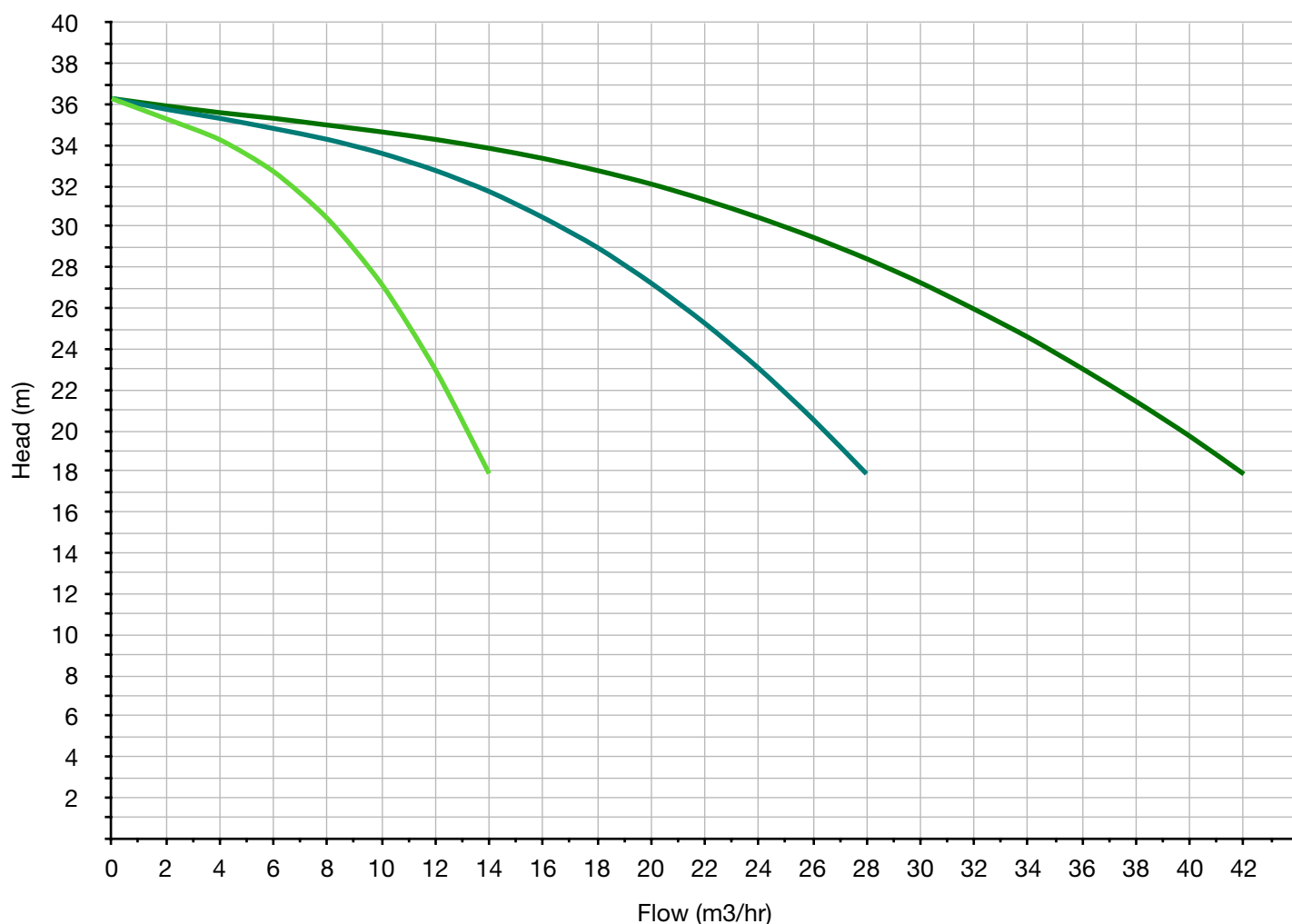
1-PUMP 2-PUMP 3-PUMP



		(5221) 2-PUMP	(5222) 3-PUMP
Performance	Flow (max)	28 m³/hr	42 m³/hr
	Head (Q=0)	24m	
	Head (Qmax)	11.9m	
	Head (Qmin)	14m	
Electrical 230V	Supply	230/1/50	
	Power (kW)	1.5	2.25
	Full Load Current (A)	11.0	16.1
Electrical 400V	Supply	400/3/50	
	Power (kW)	1.5	2.25
	Full Load Current (A)	4.4	6.0

10HM03S

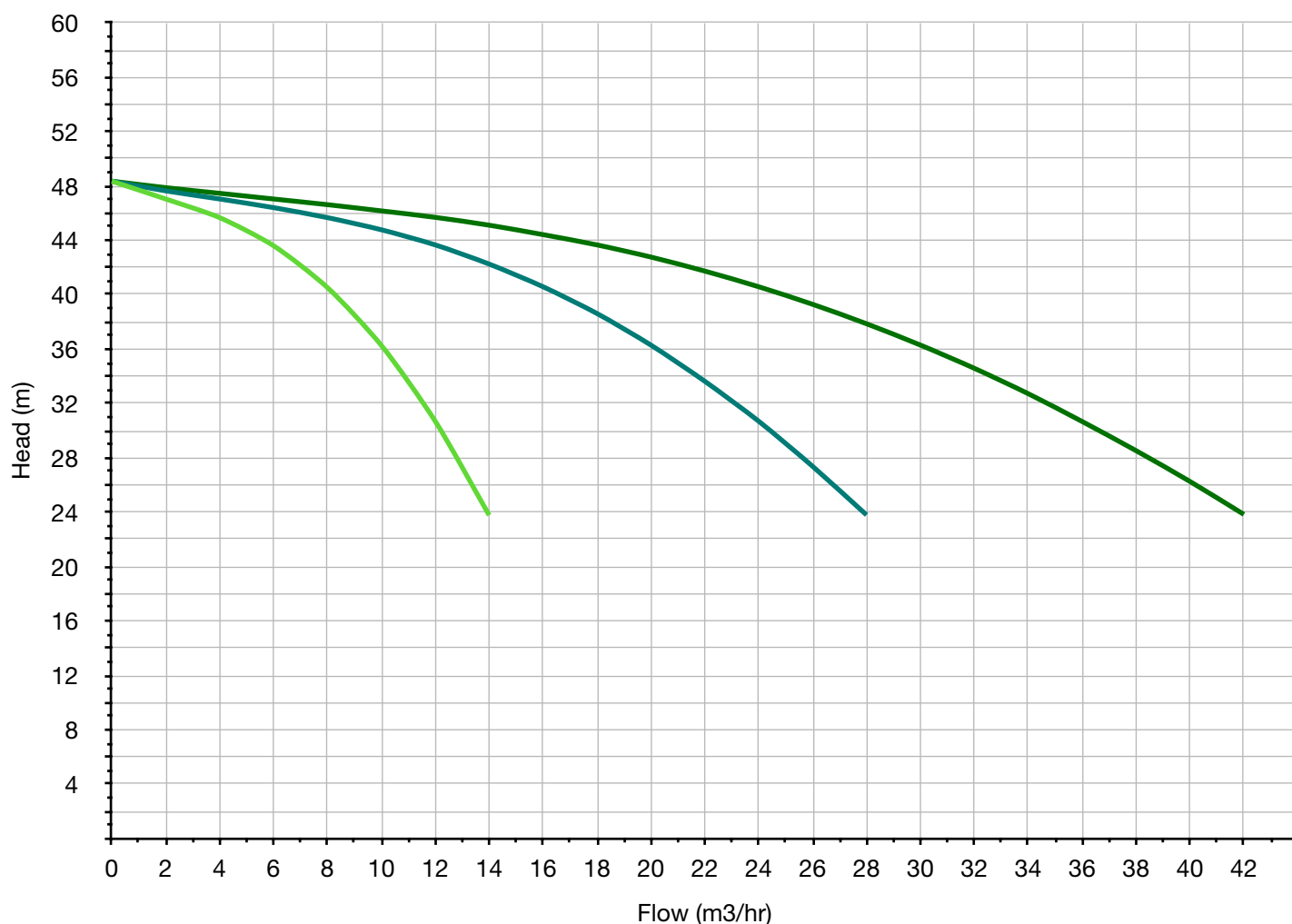
— 1-PUMP — 2-PUMP — 3-PUMP



		(5221) 2-PUMP	(5222) 3-PUMP
Performance	Flow (max)	28 m³/hr	42 m³/hr
	Head (Q=0)	36m	
	Head (Qmax)	17.9m	
	Head (Qmin)	26m	
Electrical 230V	Supply	230/1/50	
	Power (kW)	2.2	3.3
	Full Load Current (A)	15.4	22.6
Electrical 400V	Supply	400/3/50	
	Power (kW)	2.2	3.3
	Full Load Current (A)	5.8	8.2

10HM04S

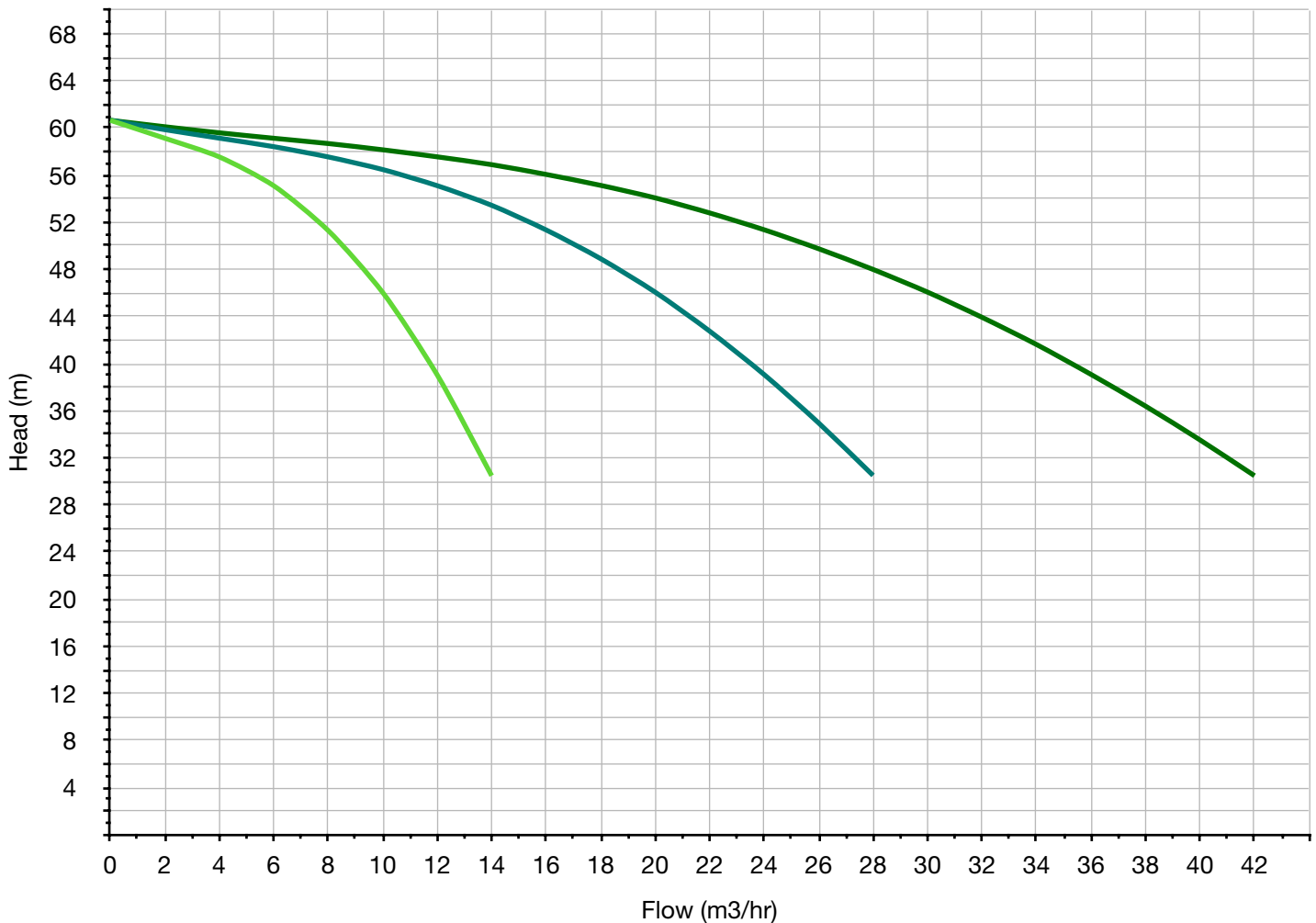
— 1-PUMP — 2-PUMP — 3-PUMP



		(5221) 2-PUMP	(5222) 3-PUMP
Performance	Flow (max)	28 m³/hr	42 m³/hr
	Head (Q=0)	48m	
	Head (Qmax)	23.9m	
	Head (Qmin)	38m	
Electrical 230V	Supply	230/1/50	
	Power (kW)	3.0	4.5
	Full Load Current (A)	19.7	29.1
Electrical 400V	Supply	400/3/50	
	Power (kW)	3.0	4.5
	Full Load Current (A)	7.2	10.4

10HM05S

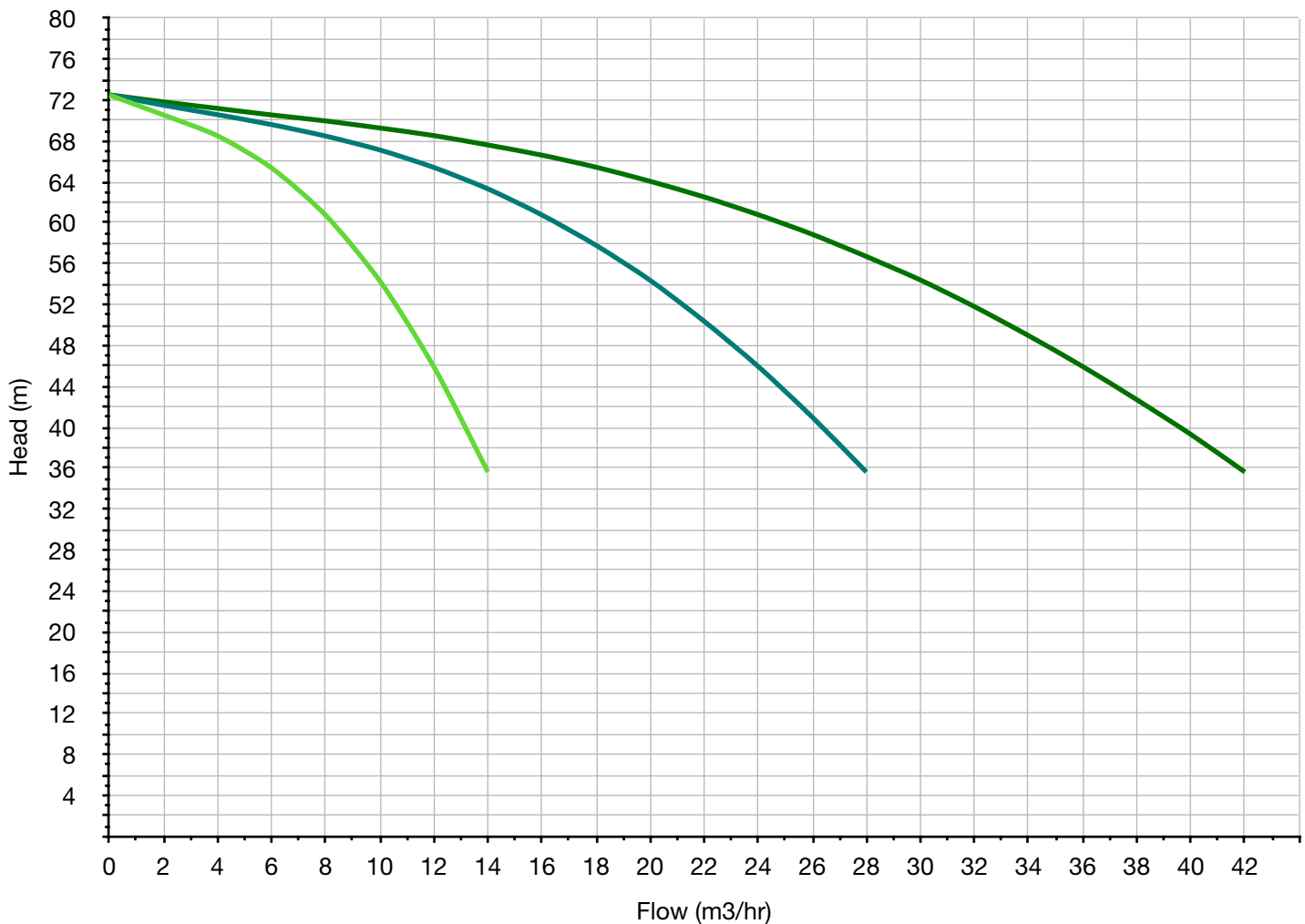
— 1-PUMP — 2-PUMP — 3-PUMP



		(5221) 2-PUMP	(5222) 3-PUMP
Performance	Flow (max)	28 m³/hr	42 m³/hr
	Head (Q=0)	61m	
	Head (Qmax)	30.5m	
	Head (Qmin)	51m	
Electrical 230V	Supply	230/1/50	
	Power (kW)	4.4	6.6
	Full Load Current (A)	25.8	38.3
Electrical 400V	Supply	400/3/50	
	Power (kW)	4.4	6.6
	Full Load Current (A)	9.3	13.4

10HM06S

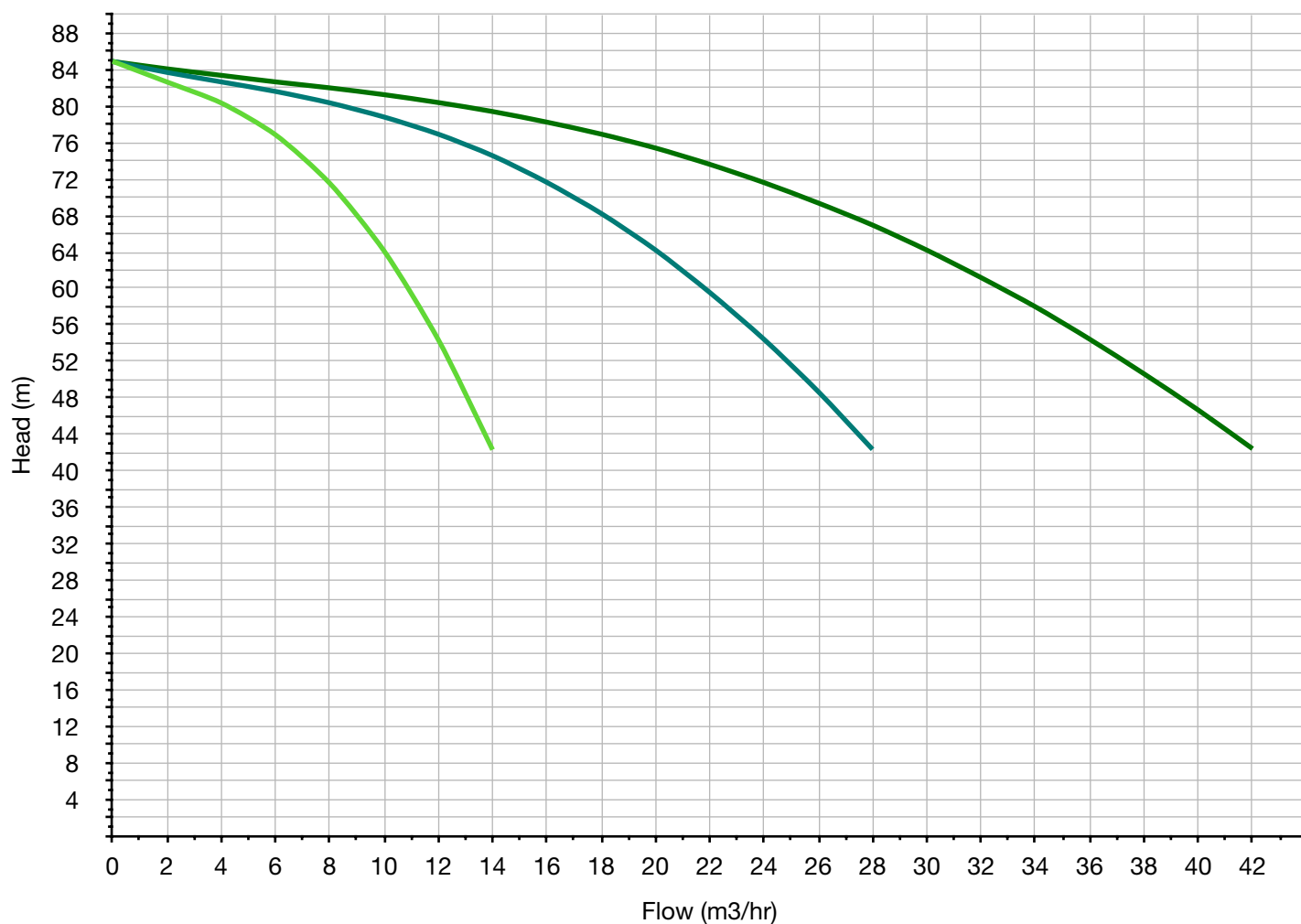
— 1-PUMP — 2-PUMP — 3-PUMP



		(5221) 2-PUMP	(5222) 3-PUMP
Performance	Flow (max)	28 m³/hr	42 m³/hr
	Head (Q=0)	72m	
	Head (Qmax)	35.6m	
	Head (Qmin)	62m	
Electrical 230V	Supply	230/1/50	
	Power (kW)	4.4	6.6
	Full Load Current (A)	28.6	42.4
Electrical 400V	Supply	400/3/50	
	Power (kW)	4.4	6.6
	Full Load Current (A)	10.2	14.8

10HM07S

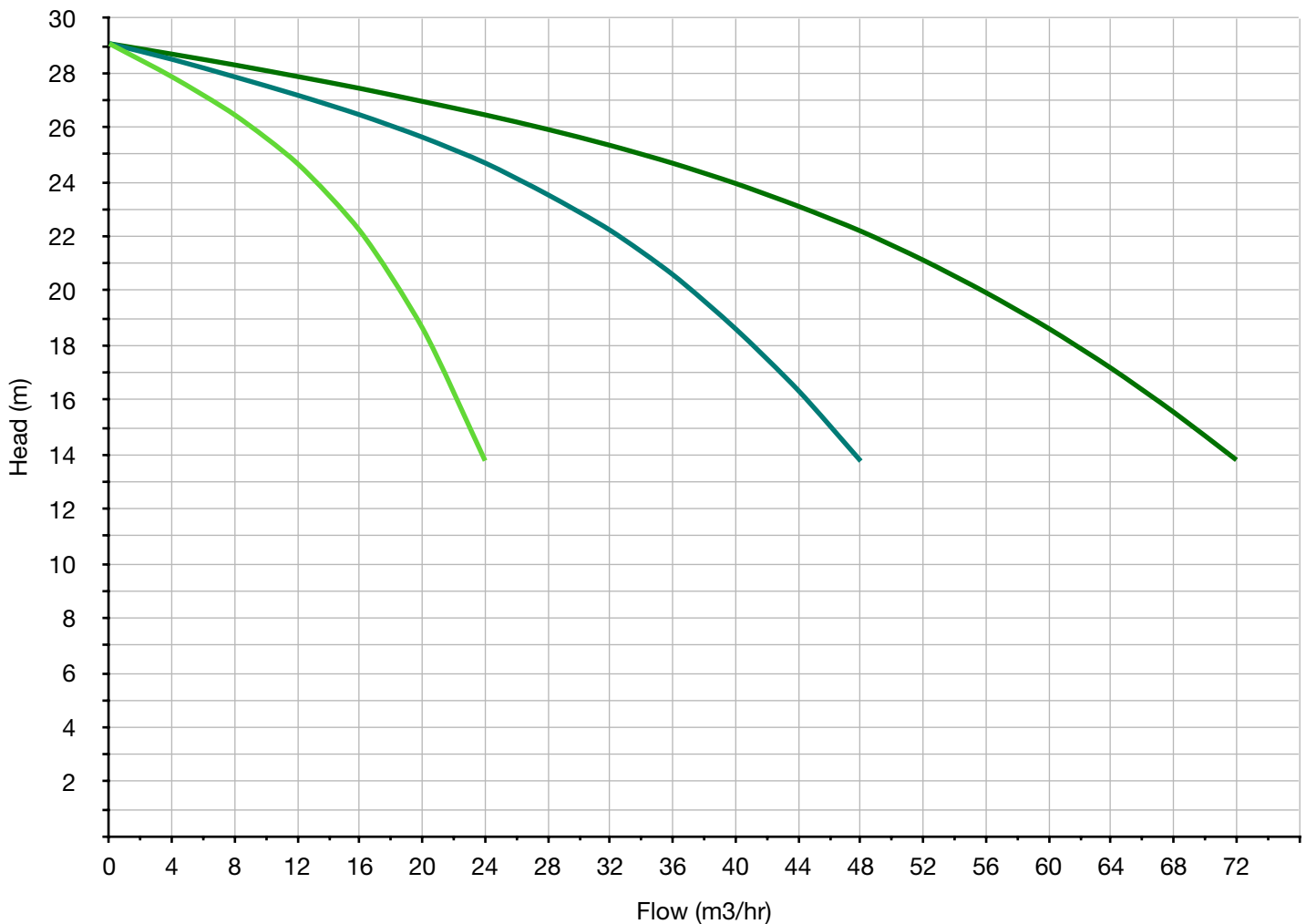
— 1-PUMP — 2-PUMP — 3-PUMP



		(5221) 2-PUMP	(5222) 3-PUMP
Performance	Flow (max)	28 m³/hr	42 m³/hr
	Head (Q=0)	85m	
	Head (Qmax)	42.4m	
	Head (Qmin)	75m	
Electrical 230V	Supply	230/1/50	
	Power (kW)	6.0	9.0
	Full Load Current (A)	36.2	53.8
Electrical 400V	Supply	400/3/50	
	Power (kW)	6.0	9.0
	Full Load Current (A)	12.7	18.6

15HM02S

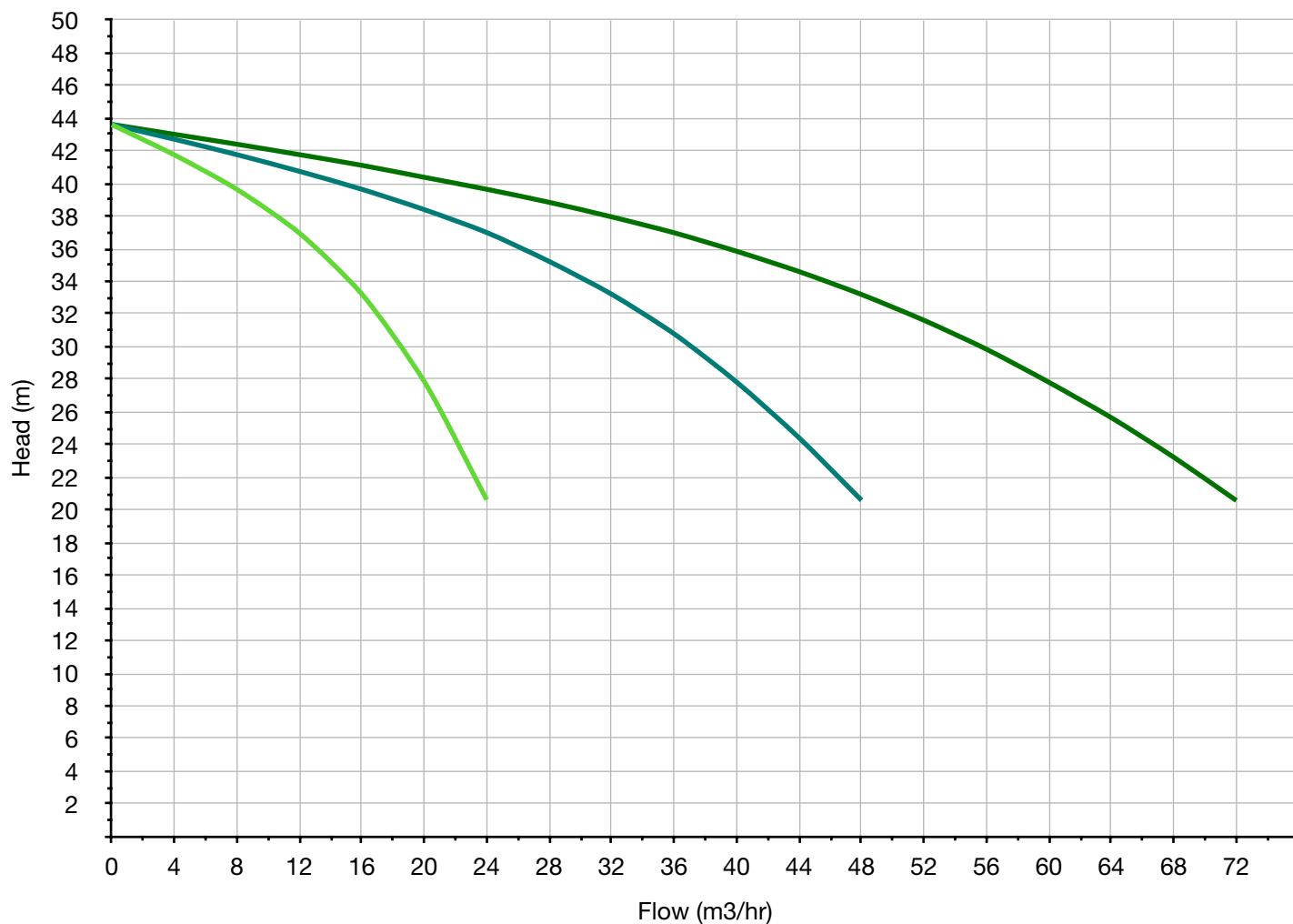
— 1-PUMP — 2-PUMP — 3-PUMP



		(5221) 2-PUMP	(5222) 3-PUMP
Performance	Flow (max)	48 m³/hr	72 m³/hr
	Head (Q=0)	29m	
	Head (Qmax)	13.8m	
	Head (Qmin)	18m	
Electrical 230V	Supply	230/1/50	
	Power (kW)	3.0	4.5
	Full Load Current (A)	19.9	29.4
Electrical 400V	Supply	400/3/50	
	Power (kW)	3.0	4.5
	Full Load Current (A)	7.3	10.5

15HM03S

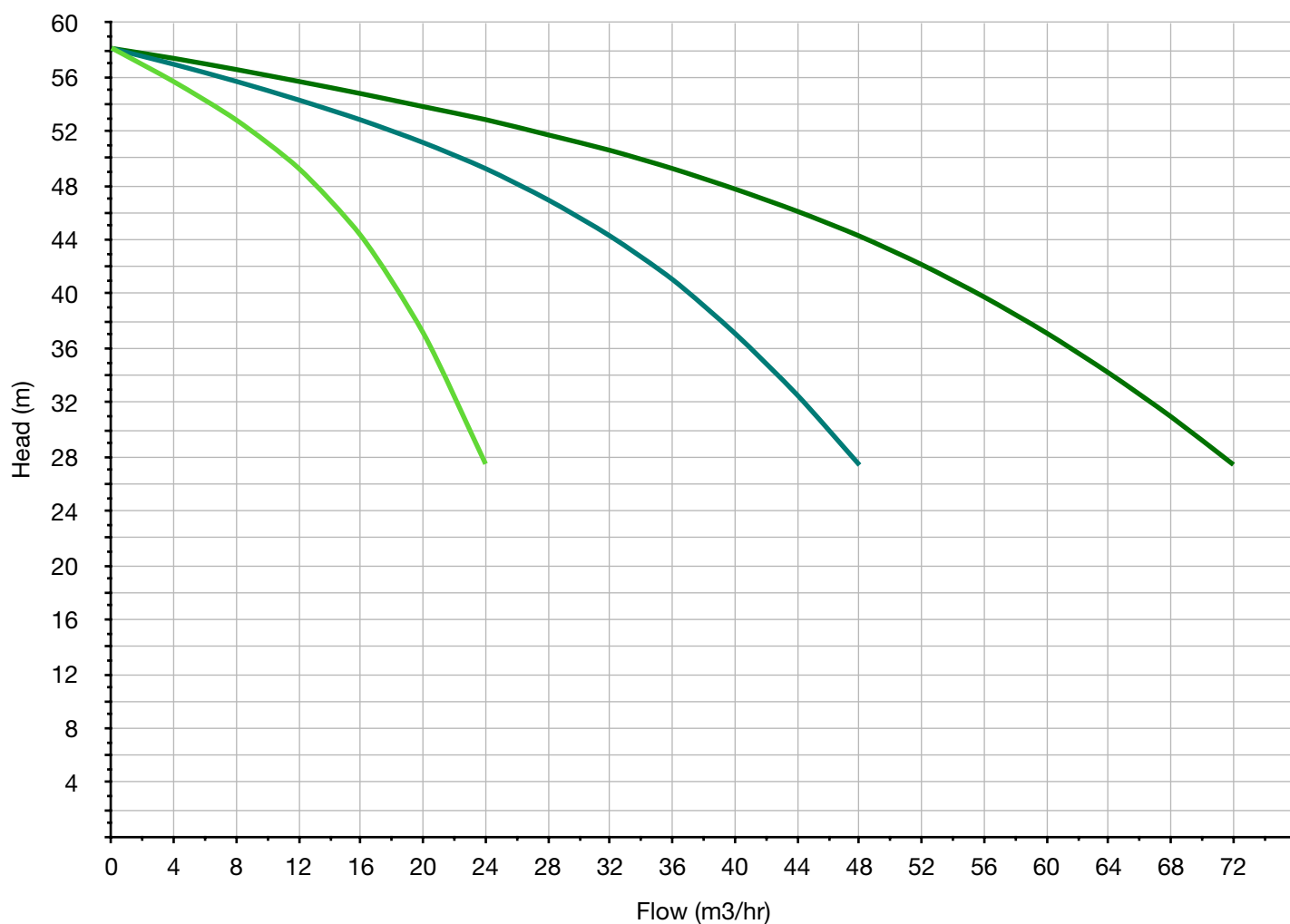
— 1-PUMP — 2-PUMP — 3-PUMP



		(5221) 2-PUMP	(5222) 3-PUMP
Performance	Flow (max)	48 m³/hr	72 m³/hr
	Head (Q=0)	44m	
	Head (Qmax)	20.6m	
	Head (Qmin)	34m	
Electrical 230V	Supply	230/1/50	
	Power (kW)	4.4	6.6
	Full Load Current (A)	28.9	42.8
Electrical 400V	Supply	400/3/50	
	Power (kW)	4.4	6.6
	Full Load Current (A)	10.3	15.0

15HM04S

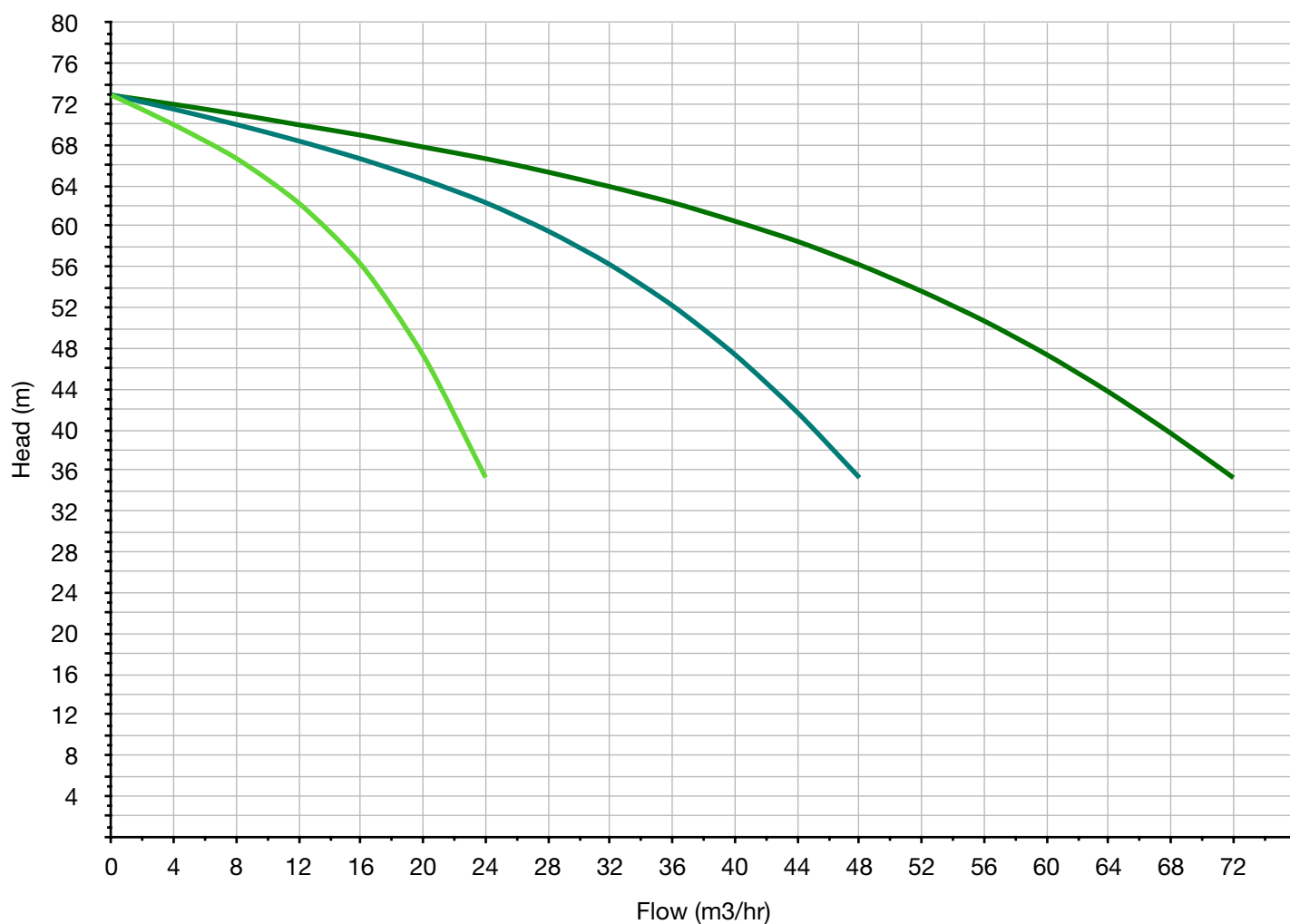
1-PUMP 2-PUMP 3-PUMP



		(5221) 2-PUMP	(5222) 3-PUMP
Performance	Flow (max)	48 m³/hr	72 m³/hr
	Head (Q=0)	58m	
	Head (Qmax)	27.4m	
	Head (Qmin)	48m	
Electrical 400V	Supply	400/3/50	
	Power (kW)	3.0	6.0
	Full Load Current (A)	13.8	20.2

15HM05S

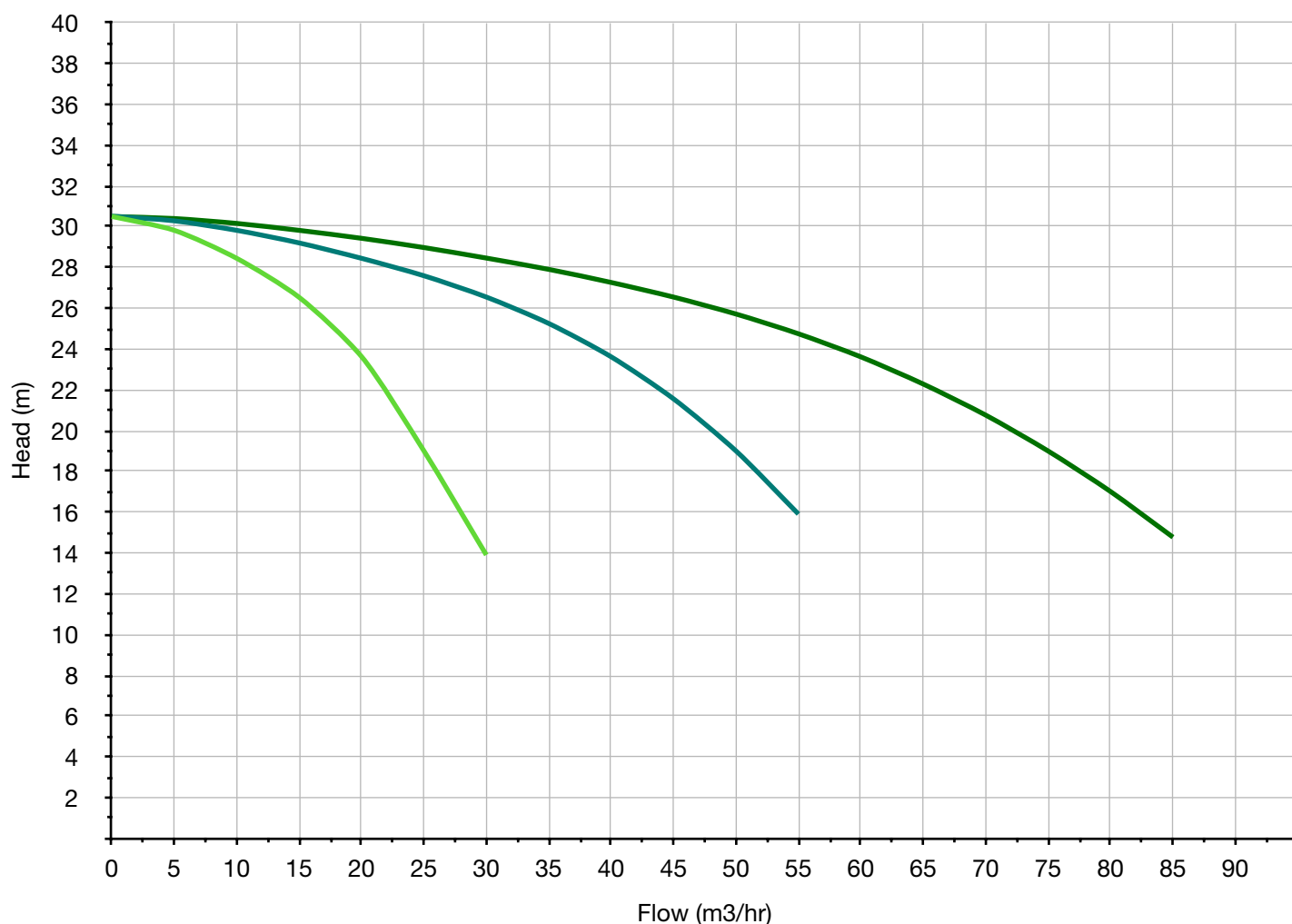
— 1-PUMP — 2-PUMP — 3-PUMP



		(5221) 2-PUMP	(5222) 3-PUMP
Performance	Flow (max)	48 m³/hr	72 m³/hr
	Head (Q=0)	73m	
	Head (Qmax)	35.3m	
	Head (Qmin)	63m	
Electrical 400V	Supply	400/3/50	
	Power (kW)	4.0	8.0
	Full Load Current (A)	15.6	22.9

22HM02S

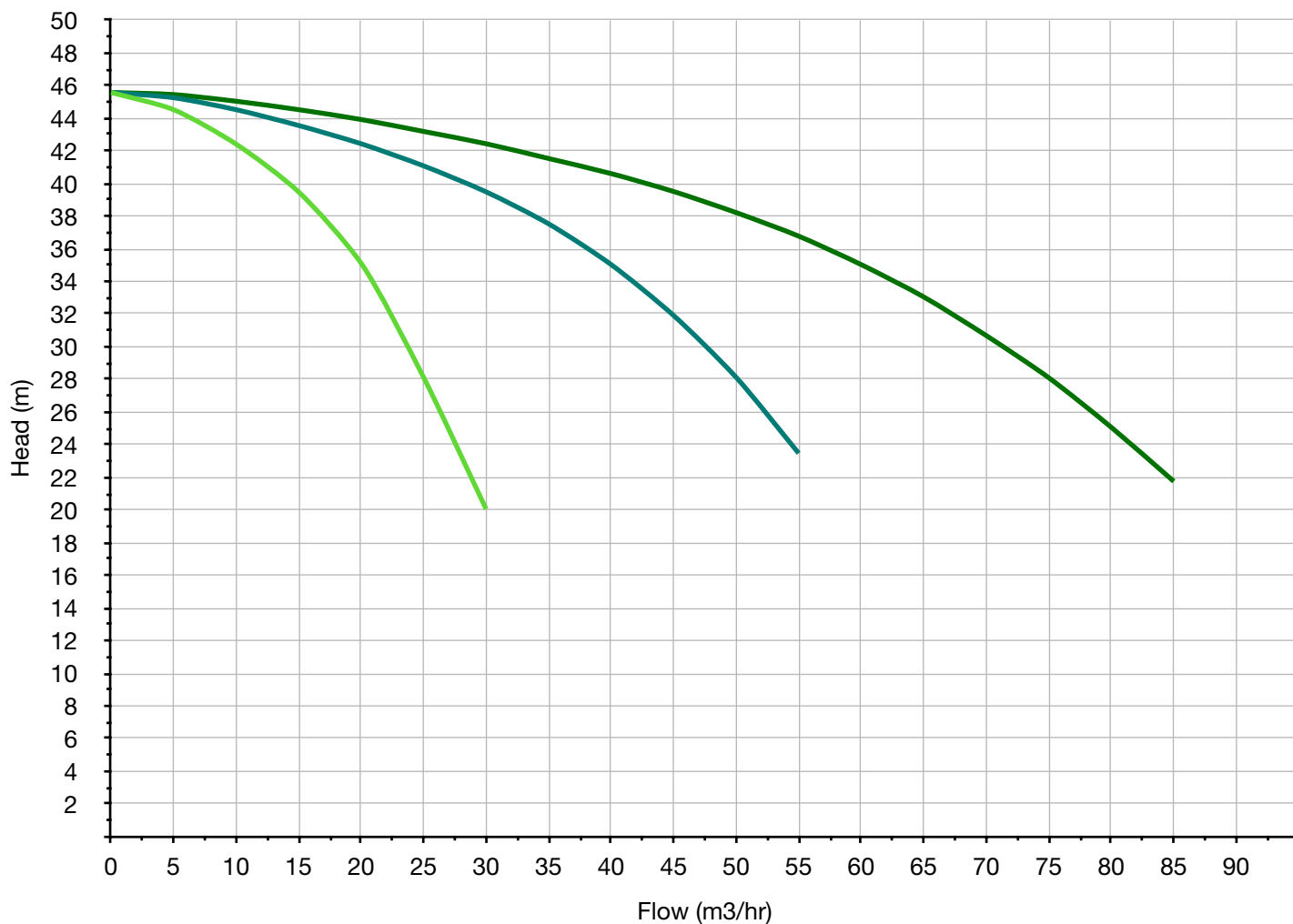
— 1-PUMP — 2-PUMP — 3-PUMP



		(5221) 2-PUMP	(5222) 3-PUMP
Performance	Flow (max)	58 m³/hr	87 m³/hr
	Head (Q=0)	30m	
	Head (Qmax)	13.9m	
	Head (Qmin)	20m	
Electrical 230V	Supply	230/1/50	
	Power (kW)	4.4	6.6
	Full Load Current (A)	26.8	39.8
Electrical 400V	Supply	400/3/50	
	Power (kW)	4.4	6.6
	Full Load Current (A)	9.6	13.9

22HM03S

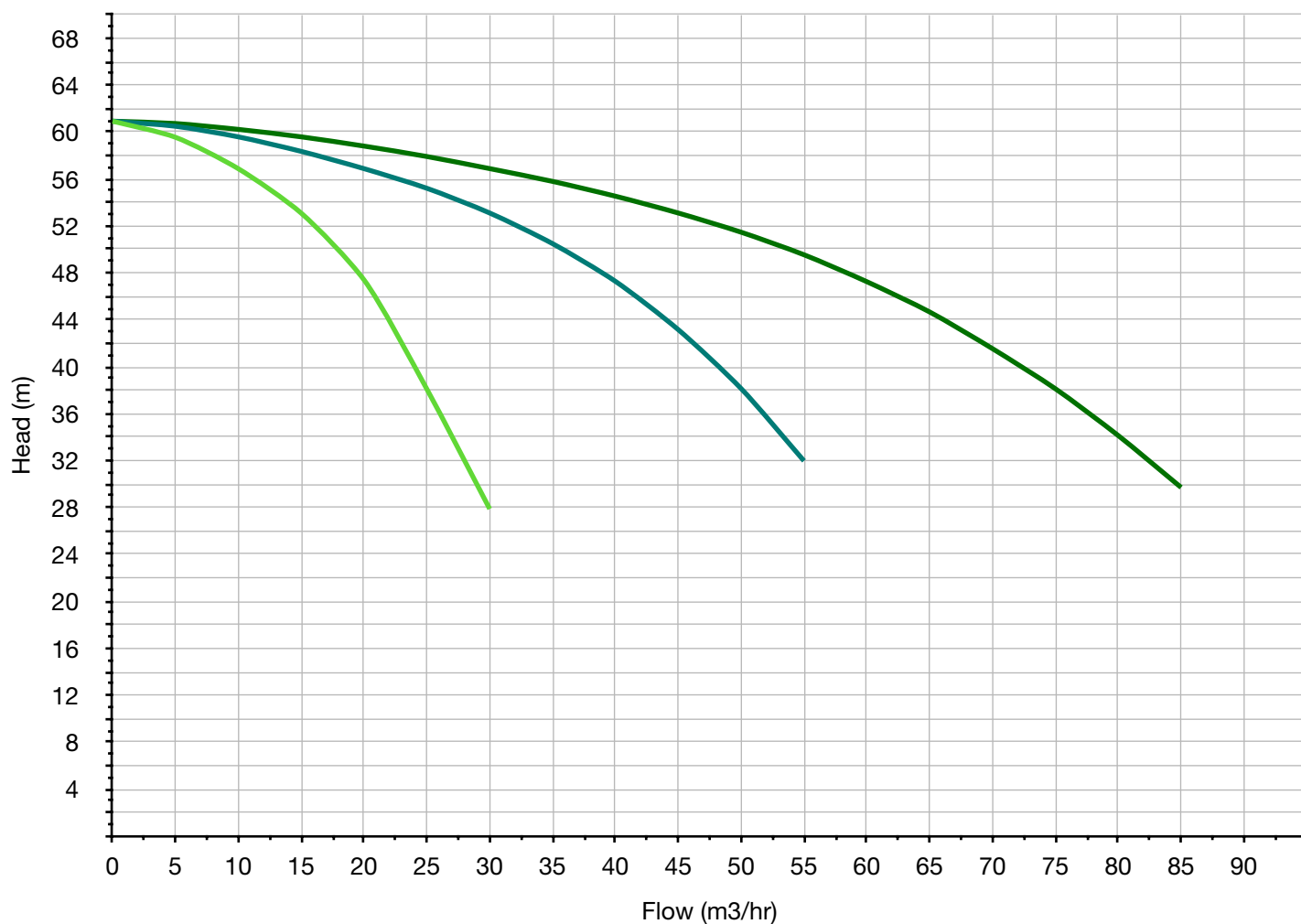
— 1-PUMP — 2-PUMP — 3-PUMP



		(5221) 2-PUMP	(5222) 3-PUMP
Performance	Flow (max)	58 m³/hr	87 m³/hr
	Head (Q=0)	46m	
	Head (Qmax)	20.4m	
	Head (Qmin)	36m	
Electrical 400V	Supply	400/3/50	
	Power (kW)	6.0	9.0
	Full Load Current (A)	13.7	20.0

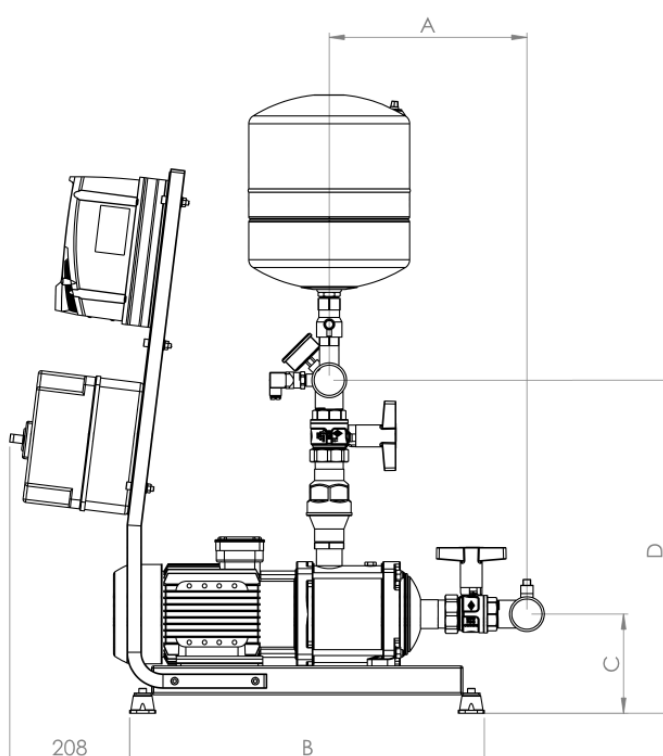
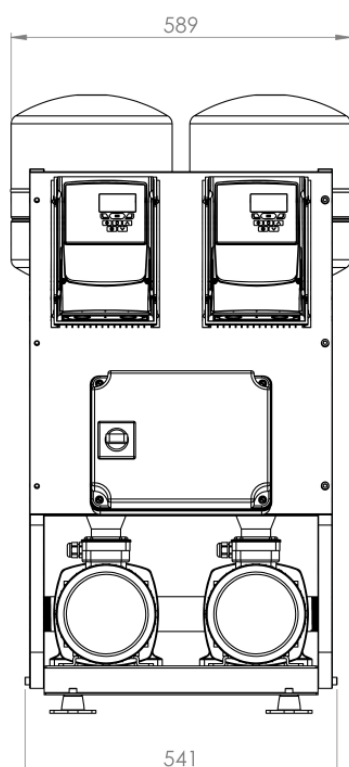
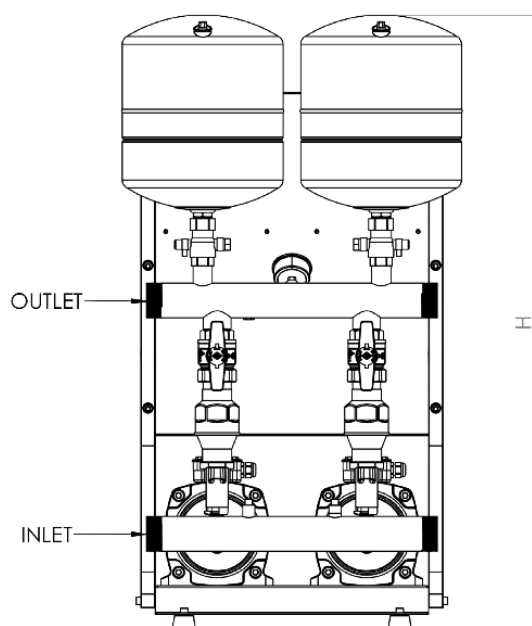
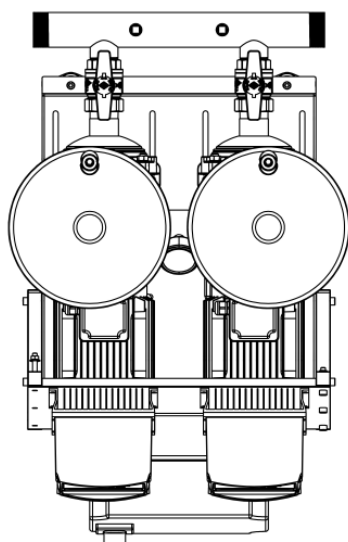
22HM04S

— 1-PUMP — 2-PUMP — 3-PUMP

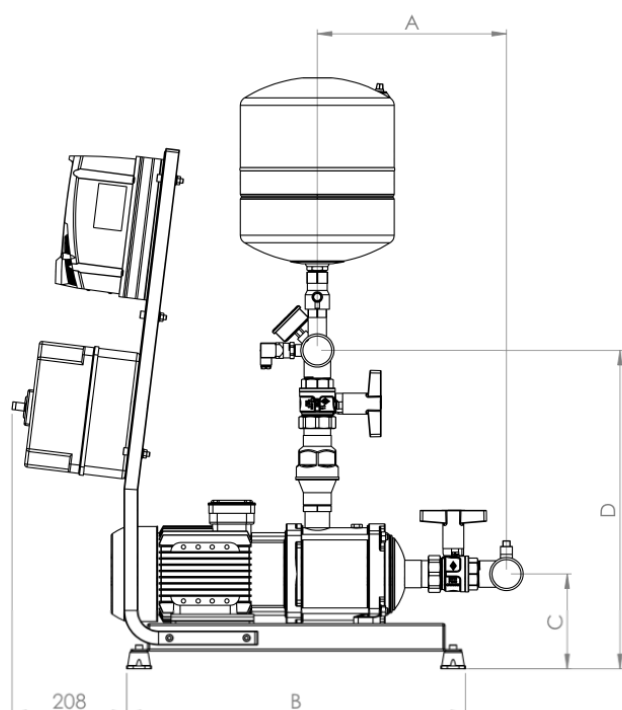
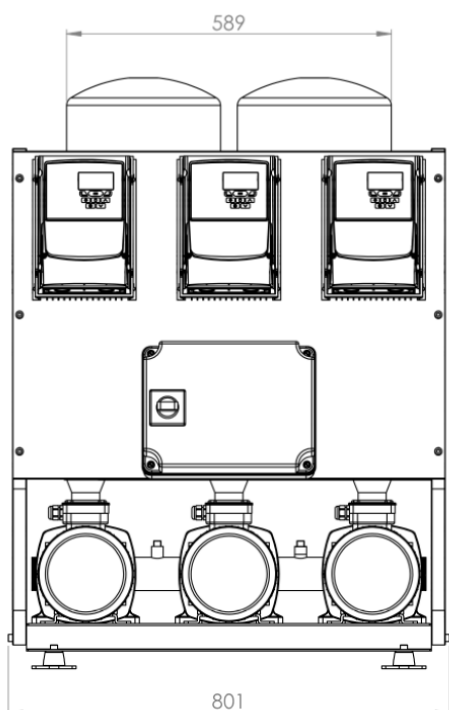
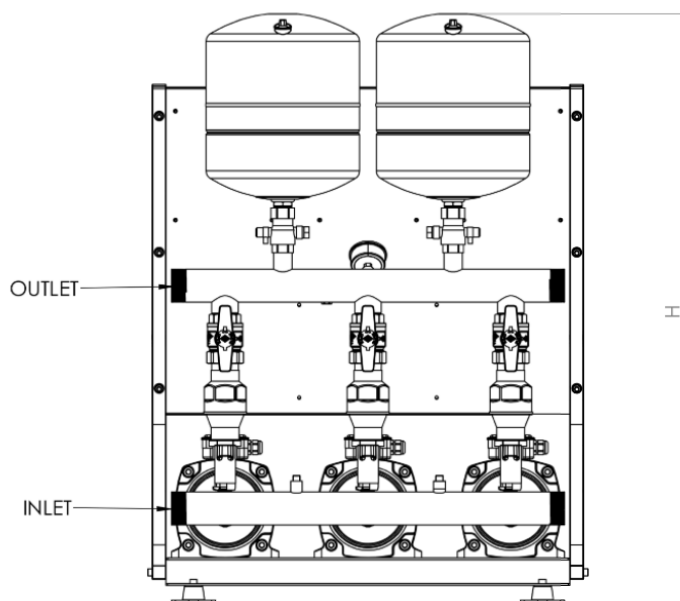
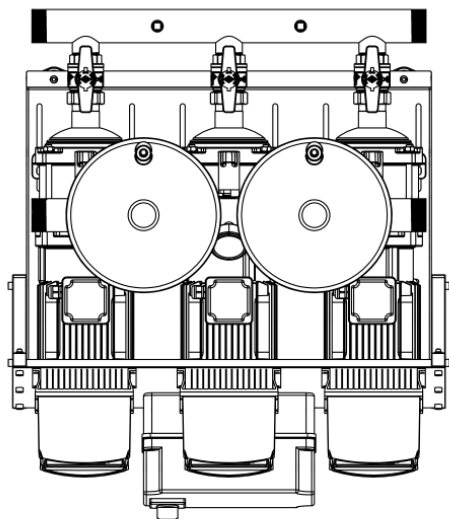


		(5221) 2-PUMP	(5222) 3-PUMP
Performance	Flow (max)	58 m³/hr	87 m³/hr
	Head (Q=0)	61m	
	Head (Qmax)	27.9m	
	Head (Qmin)	51m	
Electrical 400V	Supply	400/3/50	
	Power (kW)	8.0	12.0
	Full Load Current (A)	16.1	23.7

5221 Series



5222 Series



Model	Inlet	Outlet	A	B	C	D	H		
3HM04	1-1/4" Male BSP		248	565	172	493	980		
3HM05			268						
3HM06			288						
3HM07			292						
3HM08			312						
3HM09			332						
5HM04	1-1/2" Male BSP		298			615	182	517	1010
5HM05			323						
5HM06			327						
5HM07			352						
5HM08			377						
5HM09			402						
10HM02	2" Male BSP		279	615	182			550	1075
10HM03									
10HM04			311						
10HM05			343						
10HM06			375						
10HM07			407						
15HM02	2-1/2" Male BSP		342			615	182	619	1120
15HM03									
15HM04			390						
15HM05			438						
22HM02			342						
22HM03									
22HM04			390						
					172			619	1120
					182			629	1130

PRESSURE & HEAD

Newton per square metre (N/m ²) (Pa)	Kilo Pascal (kPa)	Bar	Pound Per Square Inch (PSI)	Metre of Water (m H ₂ O)
1	0.001	0.00001	14,500	0.000104
1,000	1	0.01	0.145	0.102
100,000	100	1	14.5	10.197
6,894	6.89	0.689	1	0.703
9,806	9.806	0.981	1.433	1

VOLUMETRIC FLOW

Litres Per Minute (L/min)	Cubic Metres Per Hour (m ³ /hr)	Cubic Feet Per Hour (ft ³ /h)	Imperial Gallon Per Minute (Imp. gal/min)	U.S. Gallon Per Minute (US gal/min)
1	0.06	2.1189	0.22	0.2642
16.6667	1	35.3147	3.6662	4.4029
0.4719	0.0283	1	0.1038	0.1247
4.5461	0.2728	9.6326	1	1,2009
3.7854	0.2271	8.0208	0.8327	1

LENGTH

Millimetre (mm)	Centimetre (cm)	Metre (m)	Inch (in)	Foot (ft)
1	0.1	0.01	0.0394	0.0033
10	1	0.1	0.3937	0.0328
1000	100	1	39.37	3.2808
25.4	2.54	0.0254	1	0.0833
304.8	30.48	0.3048	12	1

TEMPERATURE

Water	Kelvin (K)	Celsius (°C)	Fahrenheit (°F)
Freezing	273.15	0	32
Boiling	373.15	100	212



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