

WITA go.max

High efficiency circulator with flange connection



PRODUCT SERIES

Applications: hot water heating systems, district heating systems etc.

Operating range: flow up to 45 m³/h with head up to 18 m

Liquid temperature range: 0°C ~ +110°C

Liquid requirement: Clean, non-corrosive, non-flammable, chemically neutral, free of solid particles and fibers, and free of mineral oils

Ambient temperature range: 0°C ~ +40°C

Ambient humidity: < 95%

Maximum operating pressure: 10 bar (1 MPa)

Supply voltage: Single-phase 230 VAC, 50/60 Hz

Protection rating: IP44

Temperature class: TF110

Insulation class: F

Noise level: ≤ 55 dB(A)

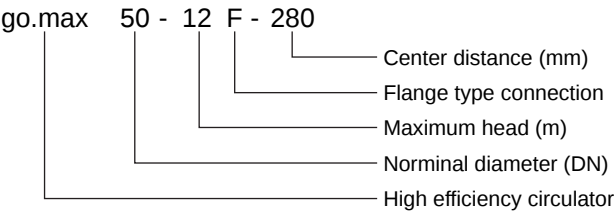
EEL: ≤ 0.21

Available flanges: DN40 (250 mm), DN50 (280 mm), DN65 (340 mm)

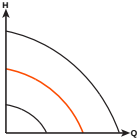
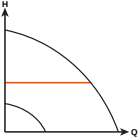
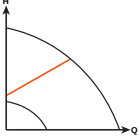
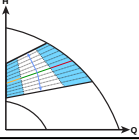
Control modes: constant speed (CS), constant pressure (CP), proportional pressure (PP), SmartAdapt (Auto)

TYPE KEY

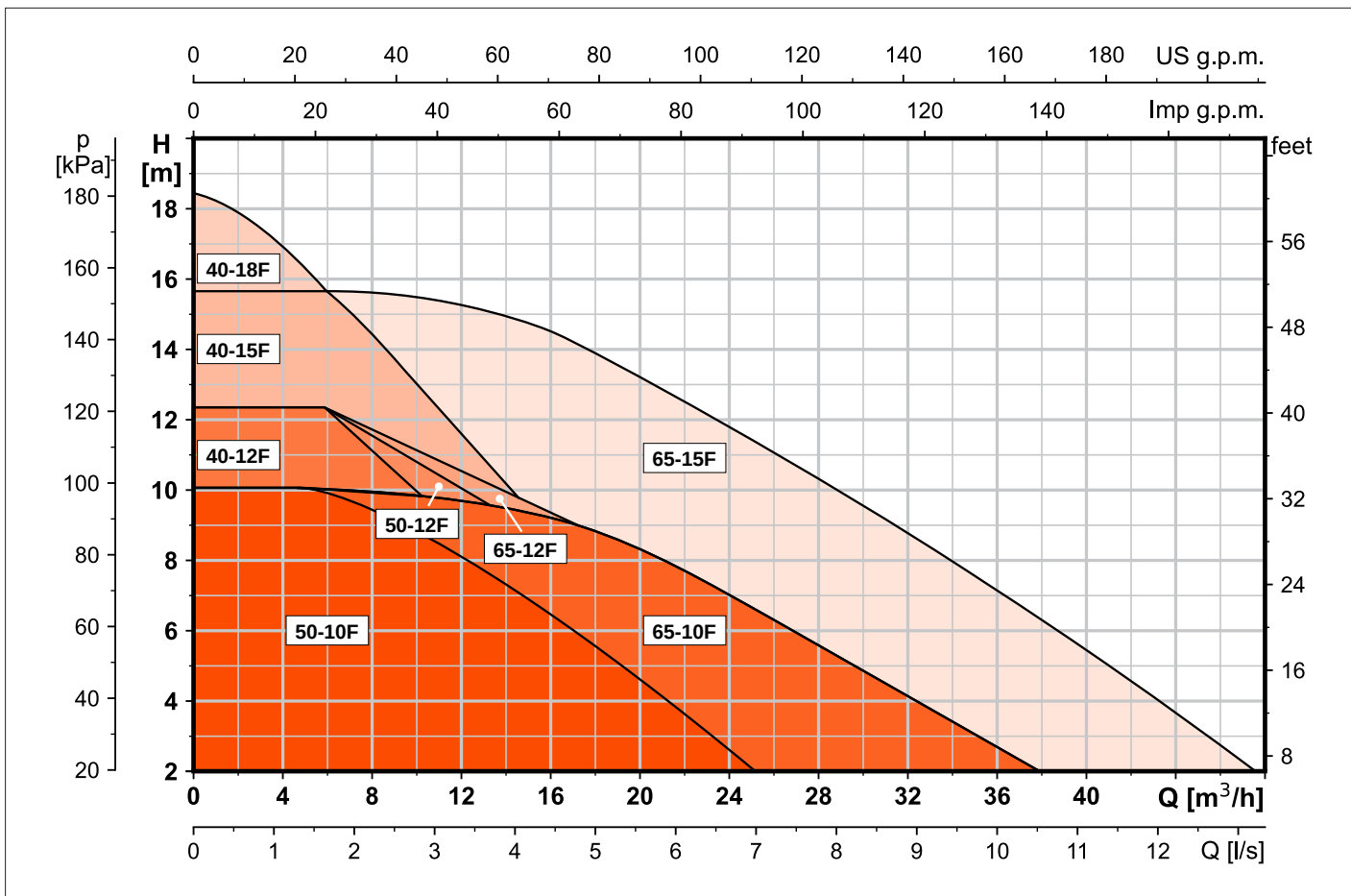
Example: go.max 50-12F-280



CONTROL MODES

Control mode	Control mode
	Constant speed control In this control mode, the pump runs along the set constant speed characteristic curve. This control mode is recommended in systems with a constant system resistance that require a constant volume flow.
	Constant pressure control In this control mode, the differential pressure is kept at the set value, independent of the flow in the system. This control mode is recommended in systems with relatively small pressure losses like underfloor heating systems with thermostatic valves.
	Proportional pressure control In this control mode, the head of the pump increases proportionally to the flow in the system. This control mode is recommended in systems with relatively large pressure losses, for example one pipe systems or two pipe systems.
	SmartAdapt (Auto) control In this control mode, the pump adjust to actual system characteristics automatically. This control mode is recommended in most systems, especially in systems with relatively large pressure losses in the distribution pipes.

PERFORMANCE RANGE



CHARACTERISTIC CURVES

Model	Constant speed	Constant pressure	Proportional pressure	Auto
go.max 40-12F-250	1 ↺ 5	1 ↺ 10	1 ↺ 10	•
go.max 40-15F-250	1 ↺ 5	1 ↺ 10	1 ↺ 10	•
go.max 40-18F-250	1 ↺ 5	1 ↺ 12	1 ↺ 12	•
go.max 50-10F-280	1 ↺ 5	1 ↺ 8	1 ↺ 8	•
go.max 50-12F-280	1 ↺ 5	1 ↺ 10	1 ↺ 10	•
go.max 65-10F-340	1 ↺ 5	1 ↺ 8	1 ↺ 8	•
go.max 65-12F-340	1 ↺ 5	1 ↺ 5	1 ↺ 5	•
go.max 65-15F-340	1 ↺ 5	1 ↺ 5	1 ↺ 5	•

MATERIALS

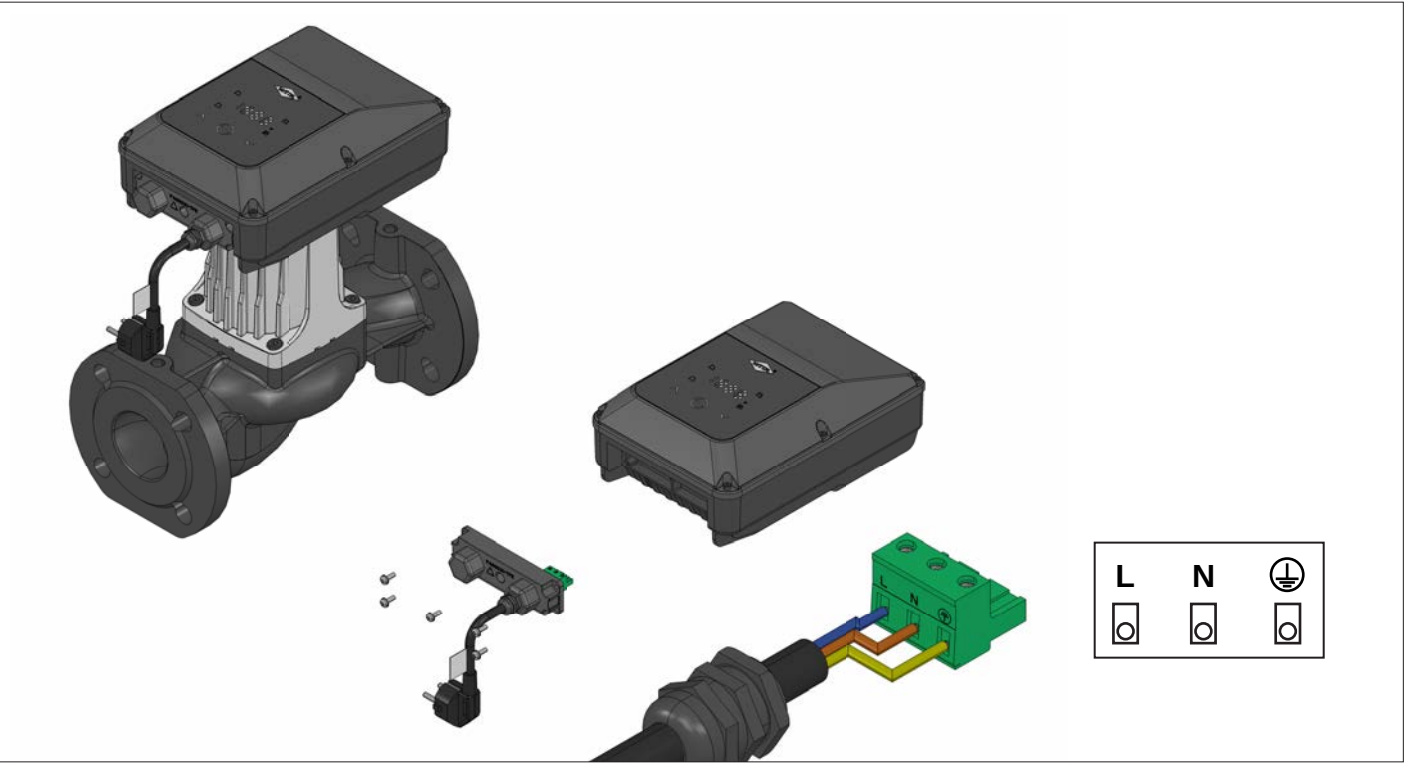
Part	Material
Pump body	Cast iron cataphoresis coated
Impeller	Technopolymer
Motor shaft	Ceramic
Rotor	Stainless steel liner
Rotor can	Stainless steel
Motor casing	Aluminium
Sealing	EPDM
Bearings	Ceramic

USER INTERFACE

Diagram of the user interface showing a display area (1) and settings area (2-8). The display area (1) shows '0.00' and 'w'. The settings area (2-8) includes buttons for power consumption, constant speed control, proportional pressure control, SmartAdapt control, constant pressure control, characteristic curve adjustment, control mode switching, and another characteristic curve adjustment button.

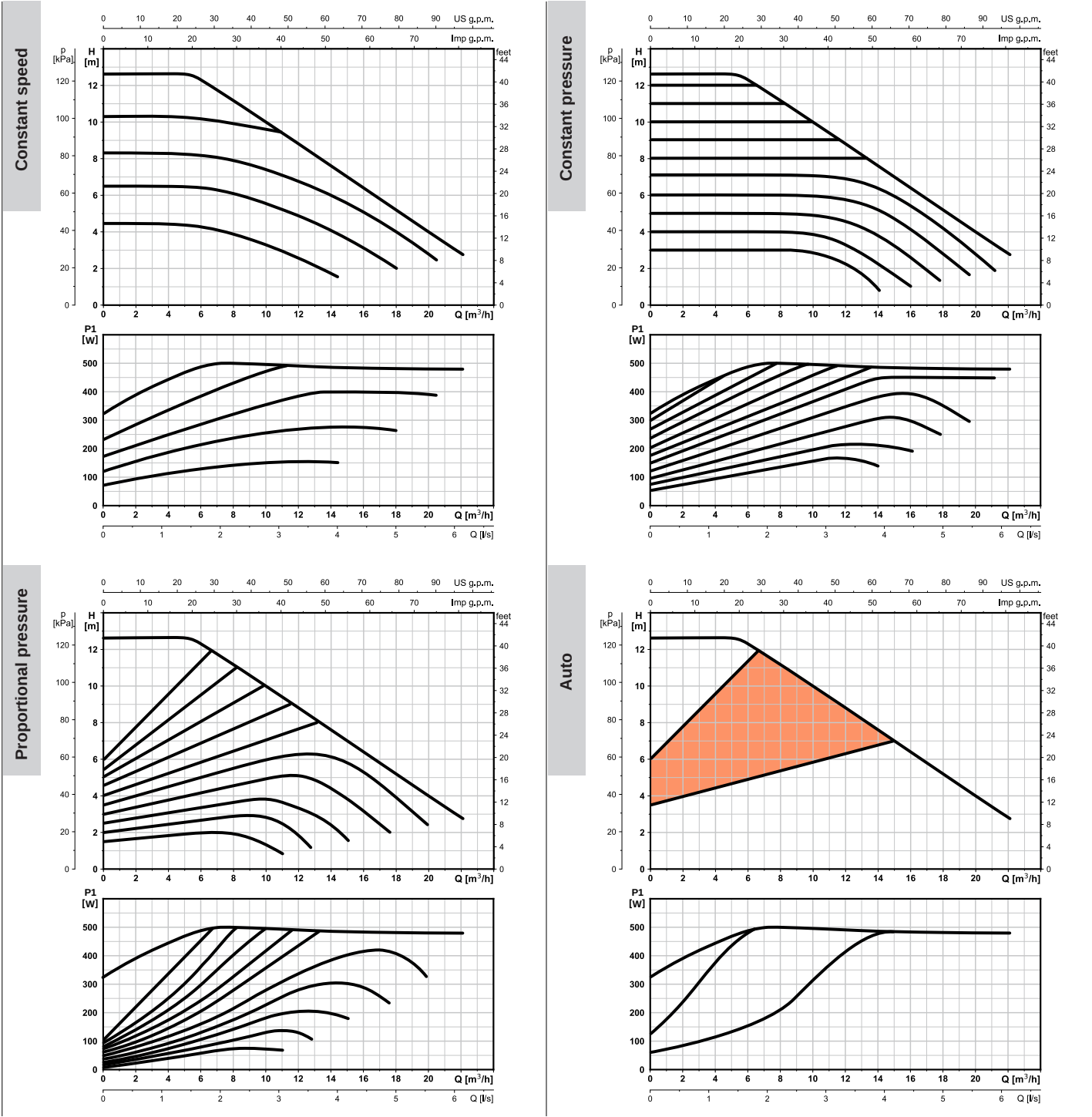
Code	Material
A	Display area (LEDs)
B	Settings area (buttons)
1	Power consumption, curve setting and error code
2	Indicator for constant speed control (CS)
3	Indicator for proportional pressure control (PP)
4	Indicator for SmartAdapt control (Auto)
5	Indicator for constant pressure control (CP)
6	Characteristic curve adjustment button
7	Control mode switching button
8	Characteristic curve adjustment button

ELECTRICAL CONNECTION

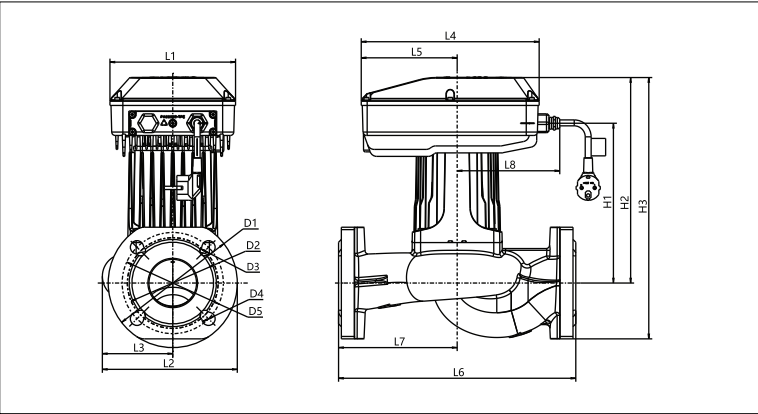


WITA go.max F - High Efficiency Circulator For Heating Systems - Single-phase Flanged PN10

Liquid temperature range: 0°C ~ +110°C Ambient temperature range: 0°C ~ +40°C Max. operating pressure: 10 bar (1 MPa)



Model	Max. Flow (m³/h)	Max. Head (m)	Center Distance (mm)	Flange	Voltage 50/60 Hz	P1 Max. (W)	Current (A)	EEl	Weight (kg)
go.max 40-12F-250	24	12	250	DN 40 PN10	230 VAC	550	2.5	≤ 0.21	14.5



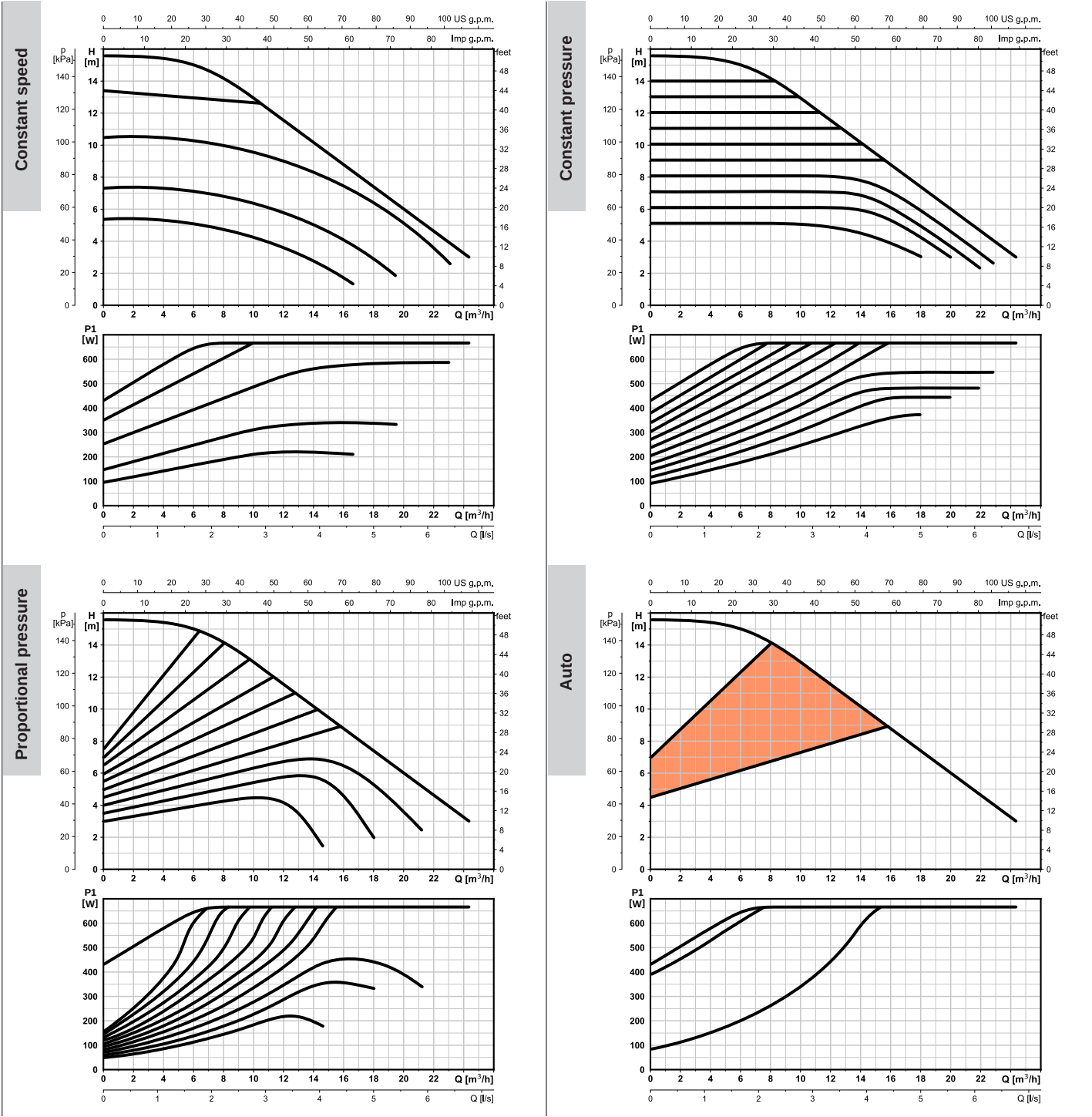
All dimensions in mm

L1	L2	L3	L4	L5	L6	L7	L8
180	158	83	255	138	250	125	147

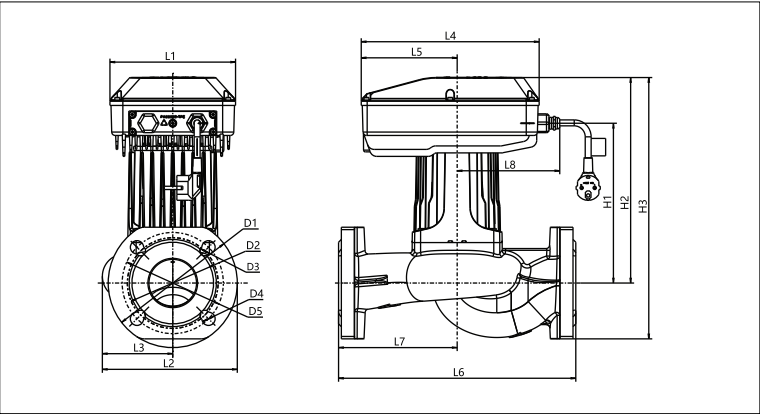
D1	D2	D3	D4	D5	H1	H2	H3
150	100	14	19	110	233	299	356

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Model	Max. Flow (m³/h)	Max. Head (m)	Center Distance (mm)	Flange	Voltage 50/60 Hz	P1 Max. (W)	Current (A)	EEl	Weight (kg)
go.max 40-15F-250	24	15	250	DN 40 PN10	230 VAC	670	3.5	≤ 0.21	15.5



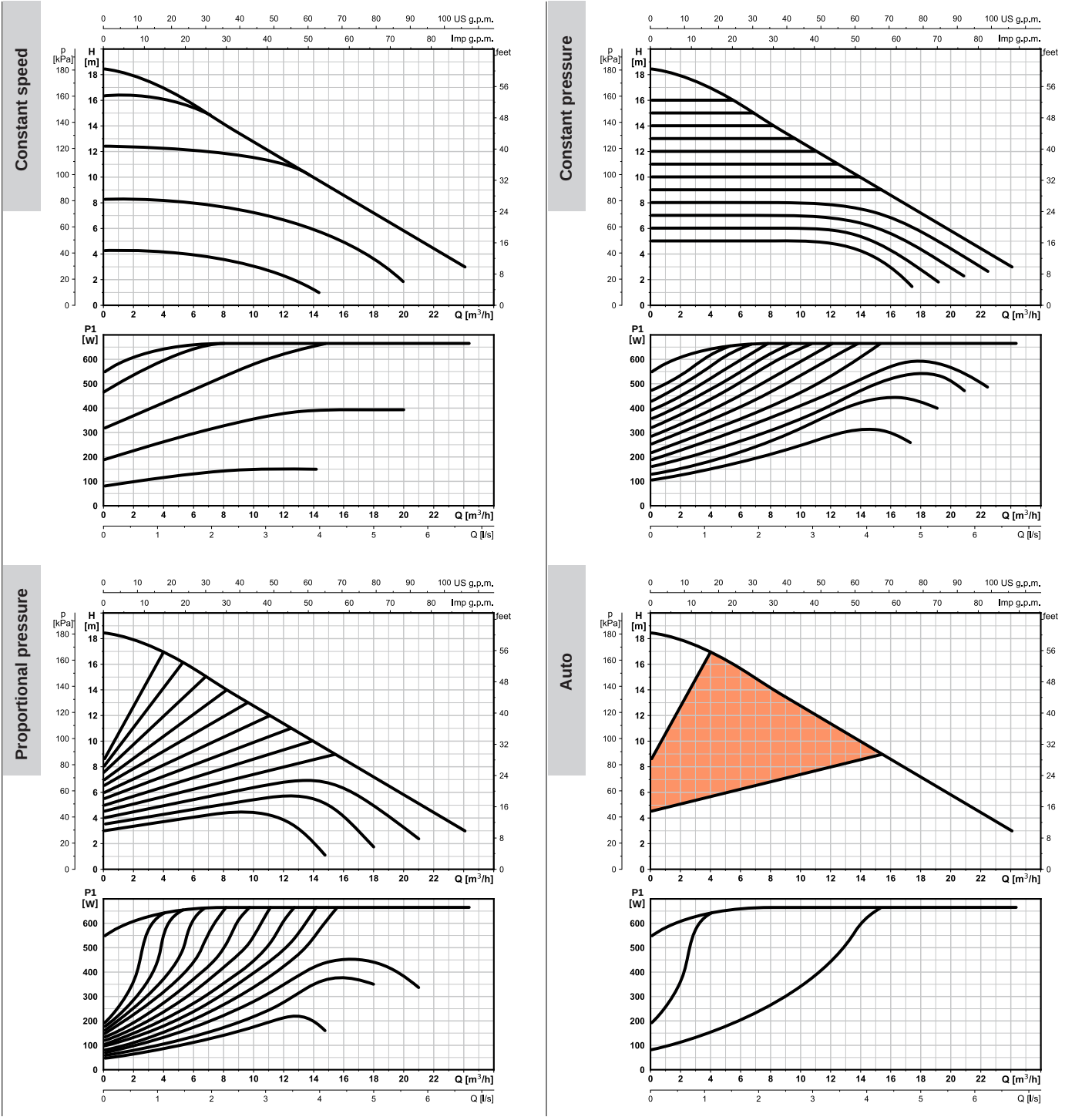
All dimensions in mm

L1	L2	L3	L4	L5	L6	L7	L8
180	158	83	255	138	250	125	147

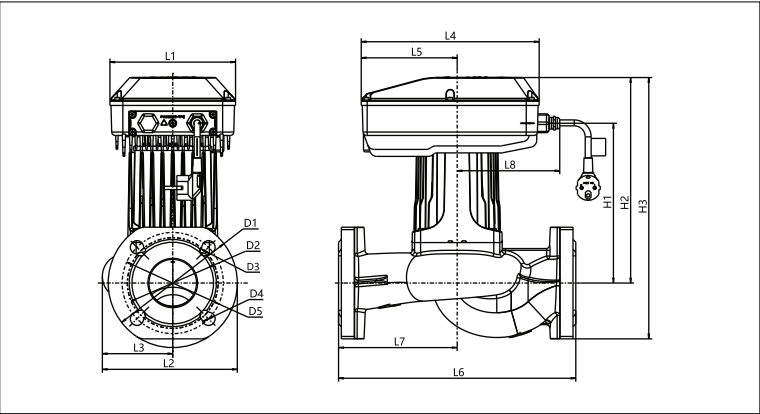
D1	D2	D3	D4	D5	H1	H2	H3
150	100	14	19	110	233	299	356

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Liquid temperature range: 0°C ~ +110°C Ambient temperature range: 0°C ~ +40°C Max. operating pressure: 10 bar (1 MPa)



Model	Max. Flow (m³/h)	Max. Head (m)	Center Distance (mm)	Flange	Voltage 50/60 Hz	P1 Max. (W)	Current (A)	EEl	Weight (kg)
go.max 40-18F-250	24	18	250	DN 40 PN10	230 VAC	670	3.5	≤ 0.21	15.5



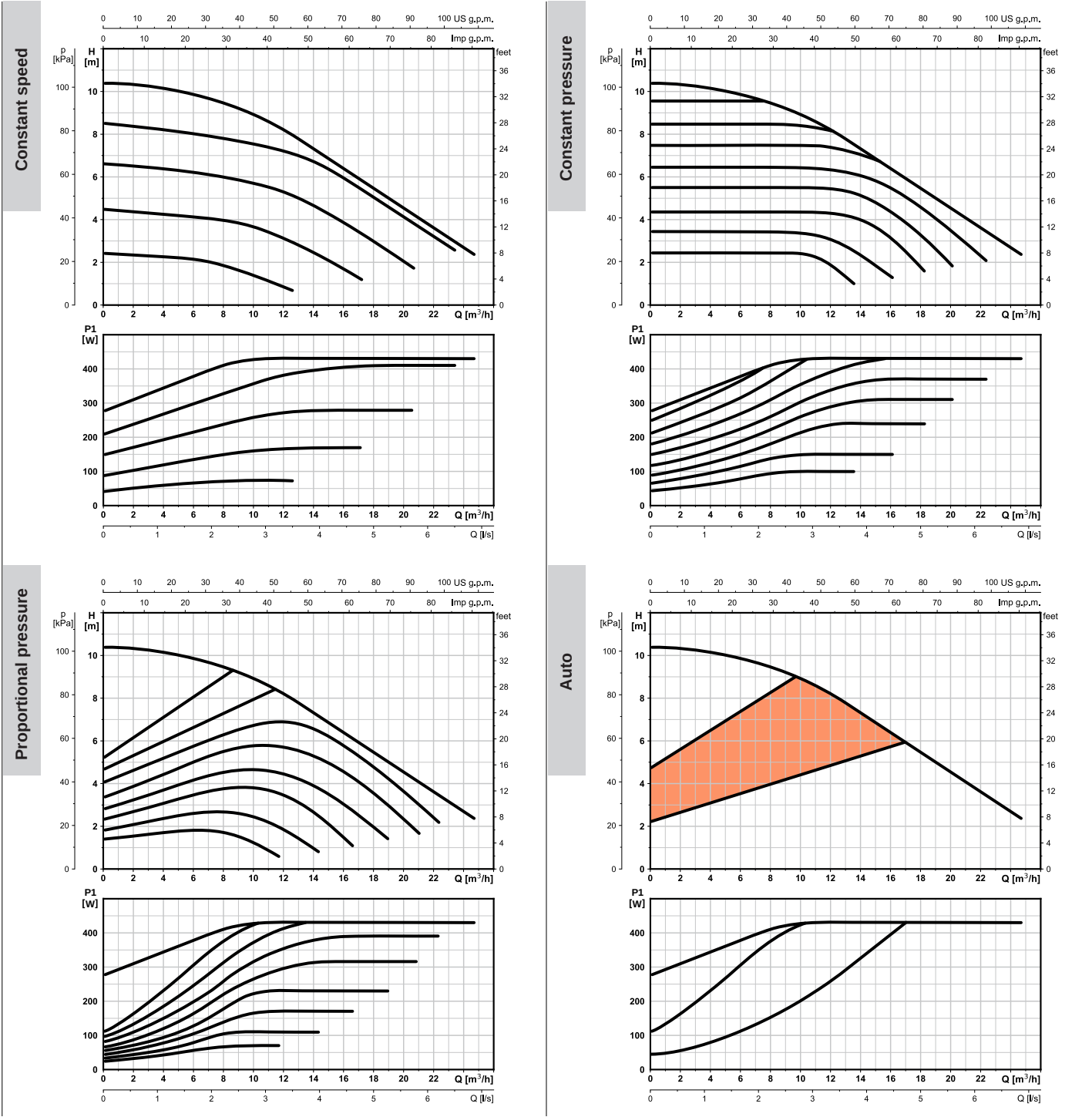
All dimensions in mm

L1	L2	L3	L4	L5	L6	L7	L8
180	158	83	255	138	250	125	147

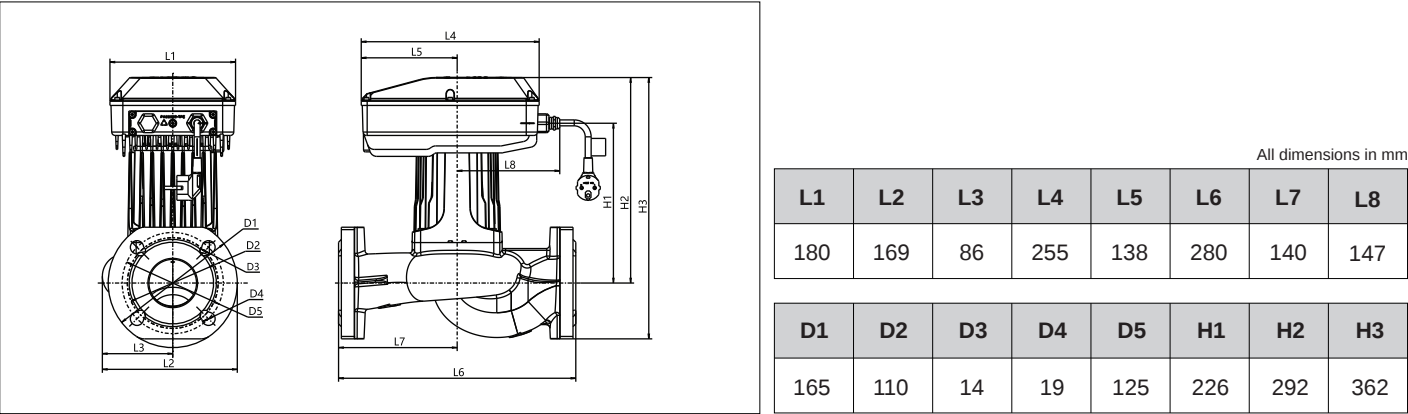
D1	D2	D3	D4	D5	H1	H2	H3
150	100	14	19	110	233	299	356

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Liquid temperature range: 0°C ~ +110°C Ambient temperature range: 0°C ~ +40°C Max. operating pressure: 10 bar (1 MPa)

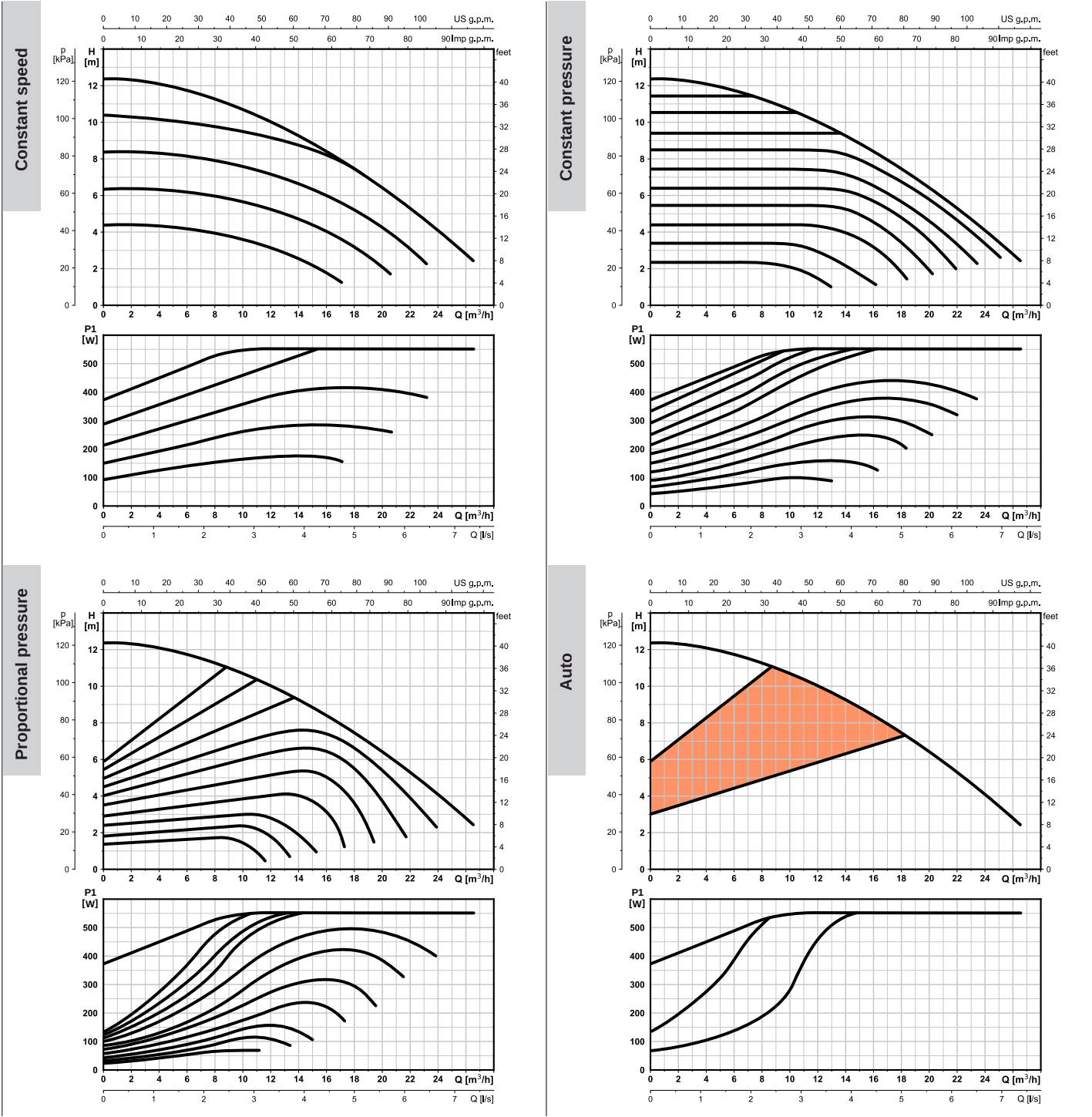


Model	Max. Flow (m³/h)	Max. Head (m)	Center Distance (mm)	Flange	Voltage 50/60 Hz	P1 Max. (W)	Current (A)	EEI	Weight (kg)
go.max 50-10F-280	25	10	280	DN 50 PN10	230 VAC	435	2.2	≤ 0.21	14.5

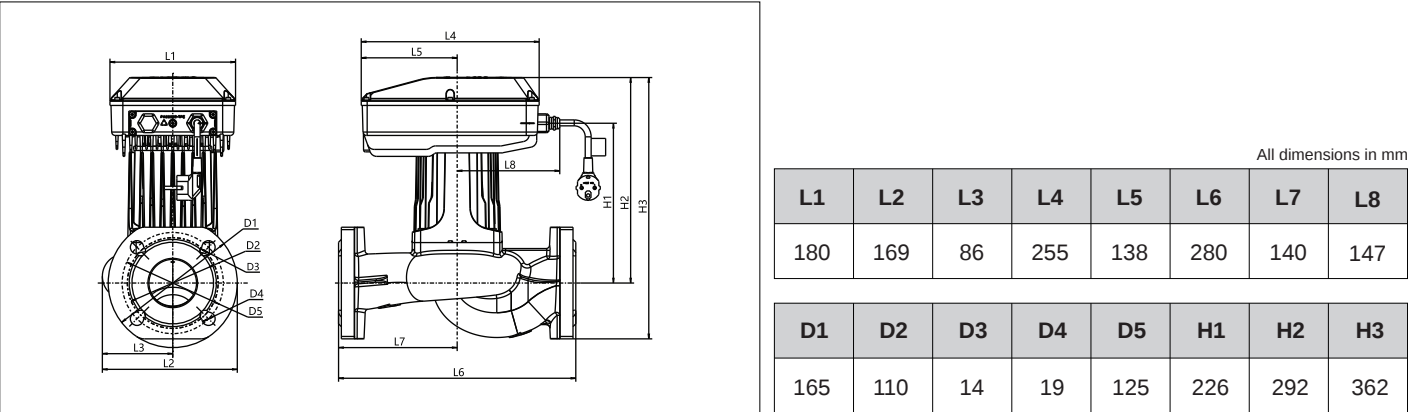


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Liquid temperature range: 0°C ~ +110°C Ambient temperature range: 0°C ~ +40°C Max. operating pressure: 10 bar (1 MPa)

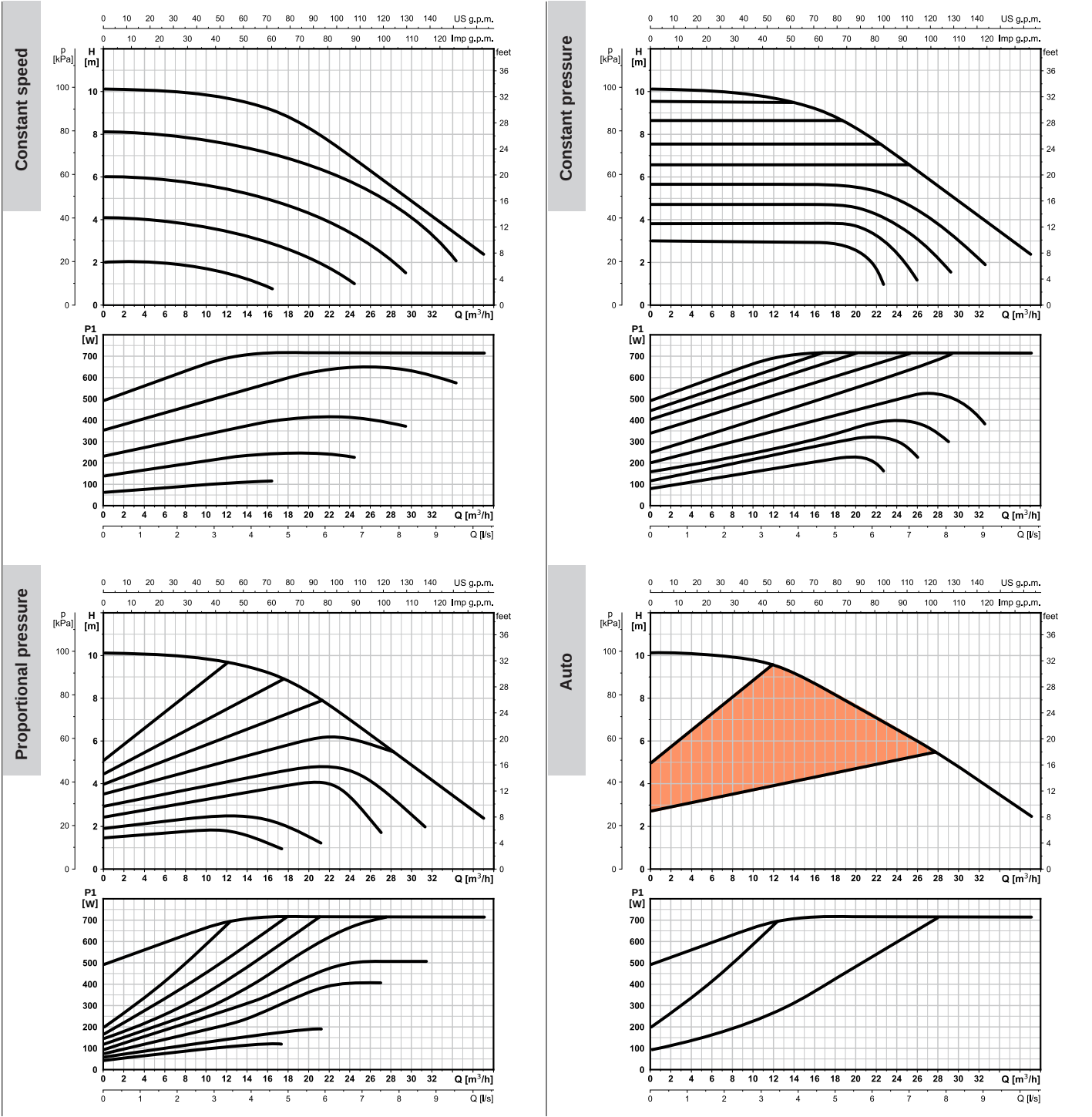


Model	Max. Flow (m³/h)	Max. Head (m)	Center Distance (mm)	Flange	Voltage 50/60 Hz	P1 Max. (W)	Current (A)	EEl	Weight (kg)
go.max 50-12F-280	25	12	280	DN 50 PN10	230 VAC	600	3	≤ 0.21	14.5

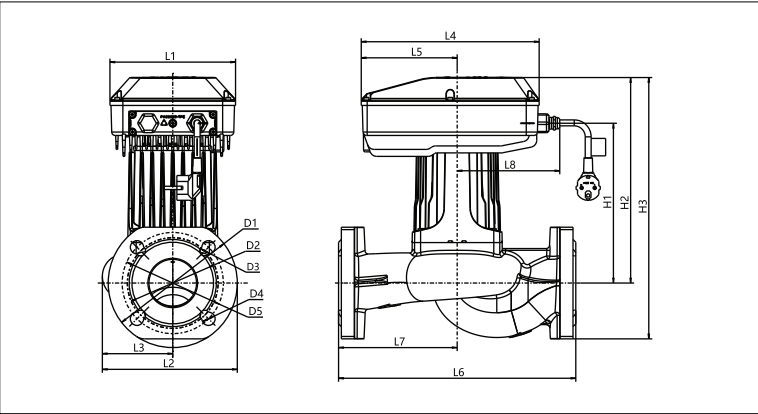


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Liquid temperature range: 0°C ~ +110°C Ambient temperature range: 0°C ~ +40°C Max. operating pressure: 10 bar (1 MPa)



Model	Max. Flow (m³/h)	Max. Head (m)	Center Distance (mm)	Flange	Voltage 50/60 Hz	P1 Max. (W)	Current (A)	EEl	Weight (kg)
go.max 65-10F-340	37	10	340	DN 65 PN10	230 VAC	710	3.5	≤ 0.21	20.5



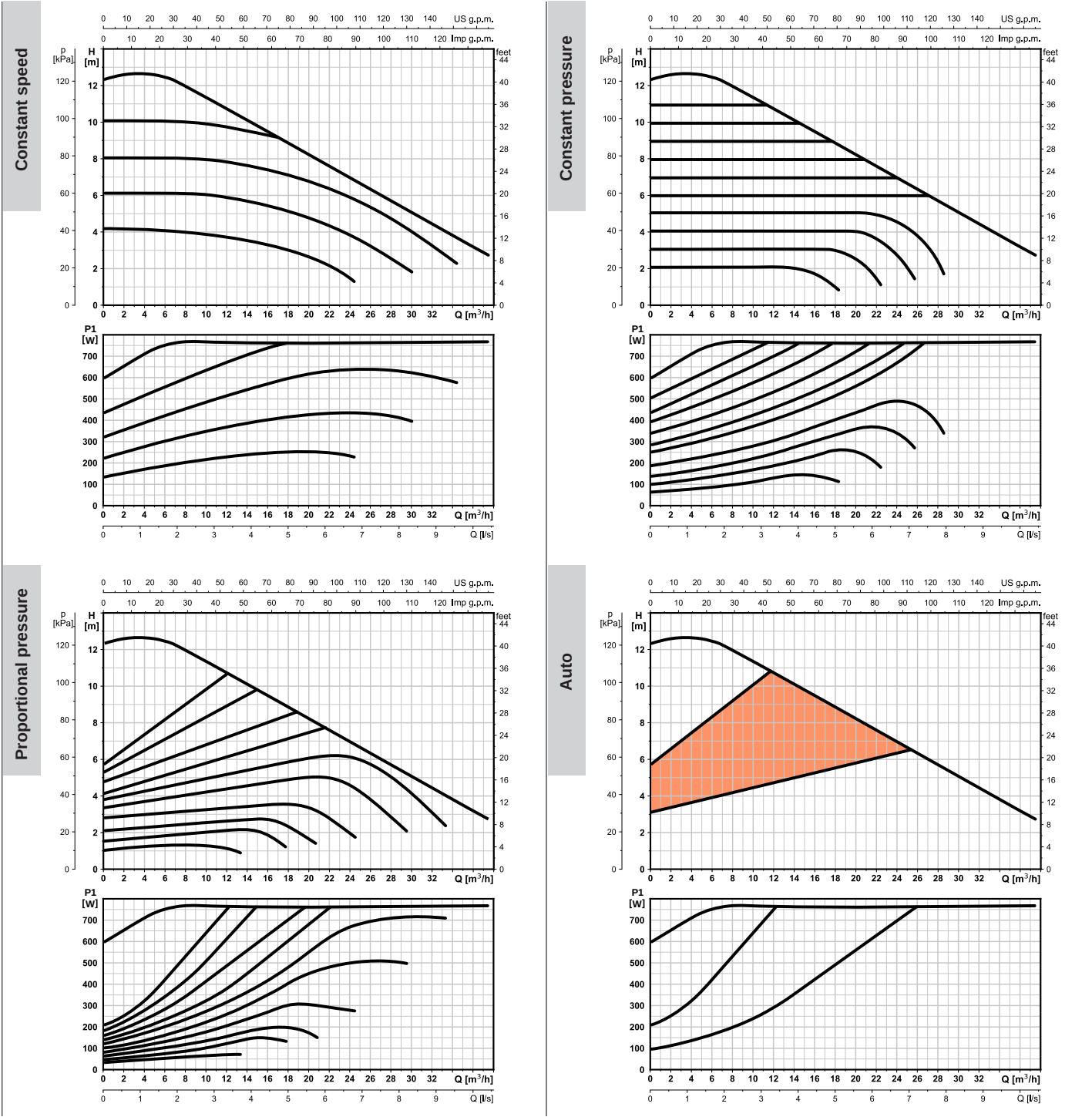
All dimensions in mm

L1	L2	L3	L4	L5	L6	L7	L8
180	194	101	255	138	340	170	147

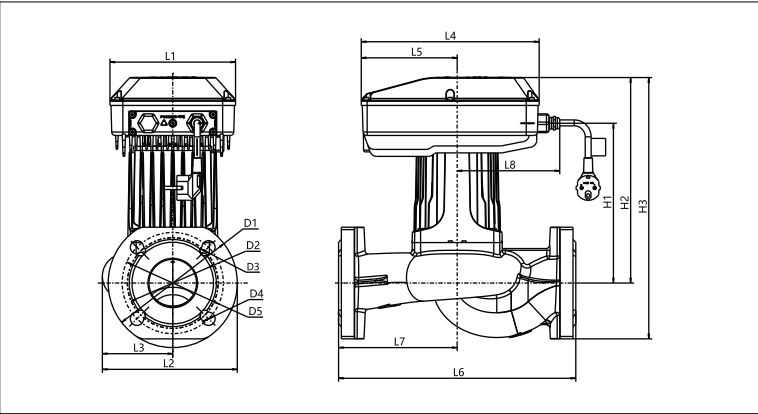
D1	D2	D3	D4	D5	H1	H2	H3
185	117	14	19	145	229	295	375

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Liquid temperature range: 0°C ~ +110°C Ambient temperature range: 0°C ~ +40°C Max. operating pressure: 10 bar (1 MPa)



Model	Max. Flow (m³/h)	Max. Head (m)	Center Distance (mm)	Flange	Voltage 50/60 Hz	P1 Max. (W)	Current (A)	EEl	Weight (kg)
go.max 65-12F-340	37	12	340	DN 65 PN10	230 VAC	750	3.7	≤ 0.21	20.5



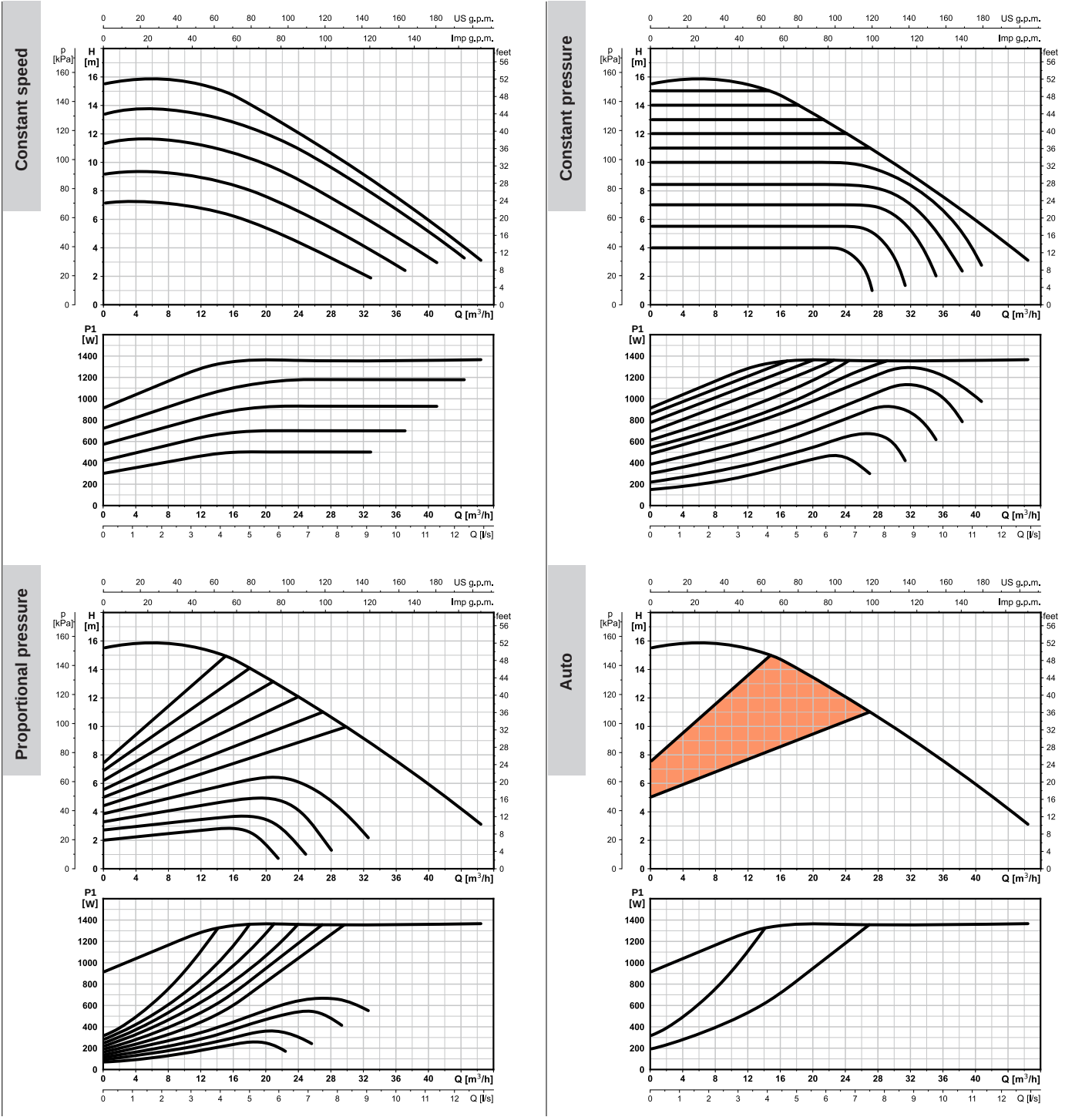
All dimensions in mm

L1	L2	L3	L4	L5	L6	L7	L8
180	194	101	255	138	340	170	147

D1	D2	D3	D4	D5	H1	H2	H3
185	117	14	19	145	229	295	375

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Model	Max. Flow (m³/h)	Max. Head (m)	Center Distance (mm)	Flange	Voltage 50/60 Hz	P1 Max. (W)	Current (A)	EEl	Weight (kg)
go.max 65-15F-340	45	16	340	DN 65 PN10	230 VAC	1350	6.5	≤ 0.21	23.5

