# 730 Drive with 720R pumphead



700 series cased pump

#### **Features and benefits**

- Colour display and intuitive menu structures provide visual status indication and minimal key presses
- Flow rates from 0.12 L/h (0.03 USGPH) to 2000 L/h (528 USGPH)
- 3,600:1 speed control range from 0.1 to 360 rpm in 0.1 rpm increments
- Keypad incorporates 3-level security PIN lock
- IP66 (NEMA 4X) cased pumps
- Dual voltage 115/230 V 50/60 Hz
- Remote Analogue/Digital, RS485, PROFIBUS®, PROFINET®, SCADA and EtherNet/IP™ control options











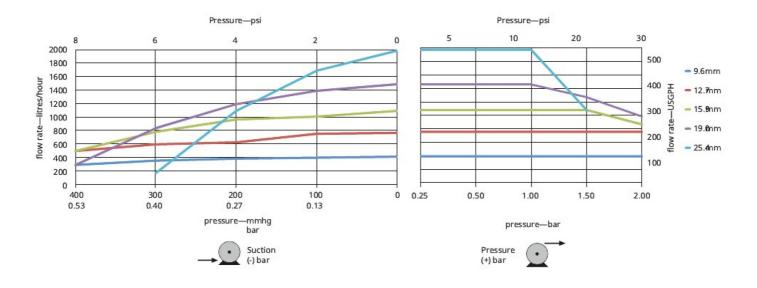




#### 730 Drive with 720R pumphead performance

720R four-roller pumpheads for continuous 4.8 mm wall thickness tubing — Tube bore and flow rates — L/h (USGPH)											
720D aireala	0.25 bar (3.6 psi)		0.5 bar (8 psi)		1 bar (15 psi)		1.5 bar (22 psi)		2 bar (30 psi)		
720R single pumpheads	Max speed Max M		Max speed	Max speed Max		Max	Max speed	Max	Max speed	Max	
P4P5445	(rpm)*	flow	(rpm)*	flow	(rpm)*	flow	(rpm)*	flow	(rpm)*	flow	
9.6 mm (0.4")	360	420 (111)	360	420 (111)	360	420 (111)	360	420 (111)	360	420 (111)	
12.7 mm (0.5")	360	780 (206)	360	780 (206)	360	780 (206)	360	780 (206)	360	780 (206)	
15.9 mm (0.6")	360	1100 (291)	360	1100 (291)	360	1100 (291)	360	1100 (291)	300	900 (238)	
19.0 mm (0.7")	360	1500 (396)	360	1500 (396)	360	1500 (396)	300	1300 (343)	250	1000 (264)	
25.4 mm (1.0")	360	2000 (528)	360	2000 (528)	360	2000 (528)	200	1100 (291)			

<sup>\*</sup>The maximum speed is reduced at increased discharge pressures to ensure safe running of the pump



# **Technical specifications**

	730 Drive with 720R pumphead
Pumphead number of rollers	4
Pumphead number of channels	1
Max. flow rate	2000 L/h
Min. flow rate	0.12 L/h
Max. flow rate	528 USGPH
Min. flow rate	0.03 USGPH
Drive speed control ratio	3600:1
Drive speed	0.1 - 360 rpm
Operating temperature range	5 °C to 40 °C
Operating temperature range	40 °F to 104 °F
Weight	25 kg
Weight	55.1 lbs
Drive weight	18.5 kg
Drive weight	40.8 lbs
Control types	EtherNet/IP™, Profibus®, Profinet®, Remote Analogue/Digital, RS485, SCADA
Drive control options	BpN, DuN, DuS, EnN, PnN, SN, UN, US
Drive standards	CE, cETLus, C-Tick, IRAM, NSF/ANSI 61 (for Marprene tubing and loadsure elements)
Drive ingress protection	IP66, NEMA 4X
Drive humidity	(Non-condensing) 80 % up to 31 °C (88 °F) decreasing linearly to 50 % at 40 °C (104 °F)
Drive noise	85dB(A) at 1m
Max. altitude	2000 m
Drive power supply	100 V to 120 V/200 V to 240 V 1ph 50/60 Hz 350 VA
Compatible tubing bore size	9.6, 12.7, 15.9, 19, 25.4 mm
Compatible tubing wall thickness	4.8 mm

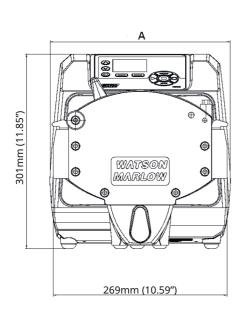
# **Materials of construction**

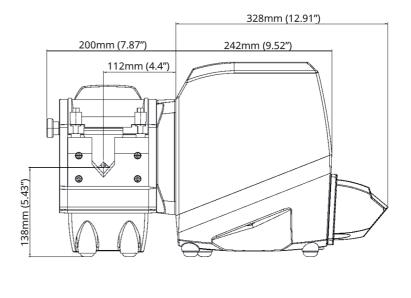
	730 Drive with 720R pumphead
Driveshaft	Stainless steel 440C
Drive casework	Pressure die-cast aluminium LM24, Pressure die-cast aluminium LM6
Drive casework coating	Alocrom pre-treatment, Exterior grade polyester powder coat
Guide roller assembly	MoS2 filled Nylon 6 (Nylatron)
Drive keypad/HMI	Polyester
Pumphead front/back plates	Aluminium
Drive rear blanking plate	Stainless steel 316
Pumphead body assembly	Aluminium
Pumphead roller assembly	MoS2 filled Nylon 6 (Nylatron)
Pumphead rotor assembly	Aluminium, Stainless steel
Pumphead track	Aluminium
Spindles	Stainless steel
Springs	Stainless steel
Switch-plate	ABS PA-765

Information listed covers the complete range.

For detailed specifications of individual models/components refer to user manual or contact WMFTS representative.

# 730 Drive with 720R pumphead dimensions





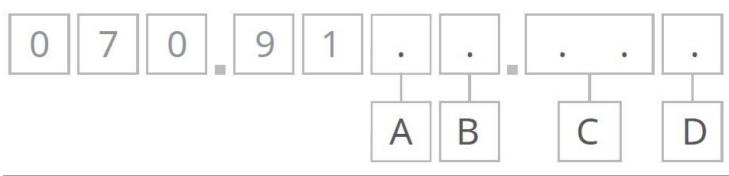
		Dimension A
ſ	720R	279 mm (11")

# **Control options**

Key to pump drive models																					
730SN	730UN	730DuN		730BpN			730US				73	30DuS				730EnN			730PnN		
Standard IP66 / NEMA 4X			versal IP66 /	Bus Pu	mp / Prof NEMA 4X	fibus	Univ		al SCADA 4X	A / IP66	5 Di		niversal SCADA / MA 4X		EtherNet/IP NEMA 4X				ROFIN	ROFINET® / IP66 IEMA 4X	
Manual control																					
Pump drives 730SN						N 730UN			uN	730	Bpl	N	730US		730DuS		730E	nN	73	30Pr	ıN
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Choice of flowrate or speed display					<b>V</b>		<b>V</b>			7			<b>/</b>	<u></u>			1				
Full calibration with choice of flow units					<b>v</b>		<b>V</b>			7			<b>/</b>	<u></u>			<b>√</b>		7	1	
MemoDose function ✓					1					1			✓ .		<b>√</b>						
				✓	<b>V</b>		<b>√</b>		<b>_</b>			1		<b>√</b>		<b>✓</b>		<b>√</b>			
Guard switch detection				✓	<b>v</b>		1			<b>V</b>			1	<b>y</b>			<b>√</b>				
Leak detection					<b>v</b>		<b>√</b>			1							<b>V</b>				
Dipensing (Network Co	ntrol)										+										
Remote control										Г											
Pump drives										7305	N :	730UN	730DuN	730	ВрМ	730US	730DuS 730		730En	0EnN 730PnN	
Configurable start/stop	leak detector and	nressure sw	itch innut (v	ia conta	ct closure	or 5 V	TTI to 2	24 V)	)	1000	_	<u>√</u>	✓	1,00		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1750	_	J		<i>J</i>
Configurable start/stop		•						- · • )	•	+	+	-	1	+		1	1		-	一,	
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Direction change and a						.,				+	+	-	1	+		1	1			$\dashv$	
Remote operation of M				9.0/						+	٦,	<b>√</b>	<b>y</b>	+		√ ✓	1			$\dashv$	
Four configurable digita	. ,		<u> </u>								٦,	<u>·</u> ✓	√ ·	+			1			$\dashv$	
Four configurable digita											+	-	1	+		✓	1			$\dashv$	
Remote pressure/flow														1			1				
Analogue speed co										1			1				1				
Pump drives							730SN	NI.	730UN	ı 7:	30Dı	иN	730BpN	730	אווכ	730D	ıs	730E	nN	730	0PnN
Fully configurable input	to: 0.10 V or 4.20 m	. ^					75031	•	/ /			uiv	/Jobpi4	√ √	,03	√ √	uJ	7302	1114	730	)F IIIV
Analogue outputs; 0-10		<u> </u>							<i>y</i>	-\frac{1}{J}				- V		1				$\vdash$	
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2x sensor inputs 4-20 m									ľ	Ť				+		+		1		1	
Security									1				<u> </u>					ļ-		1.	
Pump drives		730SN	72	0UN	720	DuN	730BpN			730U:		720115	730DuS			730EnN			7301	Dn N	
3-level security PIN lock	,	/303N	J.	UUIN	/ J	DUN	1M \/ \/20BbM			/300.			J 730DU3			/30L	IIIV		J	IIIV	
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Network communi	cation														-						
Pump drives			730SN	73	BOUN		30DuN		73	0BpN		73	0US	730D	uS	73	0EnN	1	730	)Pnl	N
RS485 network control			( \)			_   <b>v</b>								✓							
Digital pump comn	nands (Profibus	s / EtherNe	et/IP)																		
Pump drives						730	DSN	730	DUN	730D	uN		0BpN	730U	S	730Du	5	730En	N	730	PnN
PROFIBUS® DP V0												<b>✓</b>									
PROFINET® (CC-B & Ne	etload Class III)																			<b>√</b>	
EtherNet/IP™			. ,			_												✓			
Communication speeds			its/s			_						<b>✓</b>									
Network speed: 10/100						+		_		-		_						<b>√</b>			
Network speed: 100 Mb		peration																		✓	
Auto-detect bus speed						+				1		- +-	<b>V</b>							<del></del>	
Speed set point						_		-				<b>✓</b>			-		$\rightarrow$	<u>,                                     </u>		<u>۷</u>	
Speed feedback Flow calibration function					+		$\vdash$				√ √			-		$\rightarrow$	√ √		√ √		
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Revolution counter						+		$\vdash$		-		-\\\.			-		_	<u>√</u>		,	
Leak detection						+		$\vdash$		-		<b>√</b>		<del>                                     </del>			$\rightarrow$			,	
Low fluid level alarm						+		$\vdash$				√ √			-		$\rightarrow$	✓ ✓		√ √	
Diagnostic feedback						+		$\vdash$		$\vdash$				-			$\rightarrow$	✓ ✓		,	
Flow Totaliser Sensor scaling						+		$\vdash$		-		-+		$\vdash$			_	<u>,</u>		✓ ✓	
Dispensing (Network Control)						+		$\vdash$		-		+		$\vdash$				<b>v</b>		<b>'</b>	
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 $<sup>{\</sup>tt *Range\ of\ 3rd\ party\ pressure/flow\ sensors\ supported-see\ compatible\ sensor\ list\ on\ www.wmftg.com/literature}$ 

#### **Product codes**



A	В	С	D
Model	Ingress Protection	Pumphead	Plug options
3: S	N: IP66/ NEMA 4X	00: 720R	U: UK mains plug
4: U	S: SCADA IP66/ NEMA 4X <sup>1,2</sup>	E0: 720RE	E: EU mains plug
5: Du		X0: 720R/RX	A: American mains plug
6: Bp		EX: 720RE/RX	K: Australia mains plug
8: En			R: Argentina mains plug
9: Pn			C: Swiss mains plug
			D: India/ South Africa mains plug
			B: Brazilian mains plug

#### Notes:

1. U and Du models only

2. Only available with American mains plug

Disclaimer: All flow rates shown were obtained pumping water at 20 °C (68 °F) with zero suction and delivery heads. The information contained in this document is believed to be correct but Watson-Marlow Limited accepts no liability for any errors it contains and reserves the right to alter specifications without notice. It is the user's responsibility to ensure product suitability for use within their application. Watson-Marlow, LoadSure, Pumpsil, PureWeld XL, Bioprene, Marprene are registered trademarks of Watson-Marlow Limited. Tri-Clamp is a registered trademark of Alfa Laval Corporate AB. GORE and STA-PURE are registered trademarks of W.L. Gore and Associates. Please state the product code when ordering pumps and tubing.

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