730 Drive with 720R/RX 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 3300 L/h (872 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









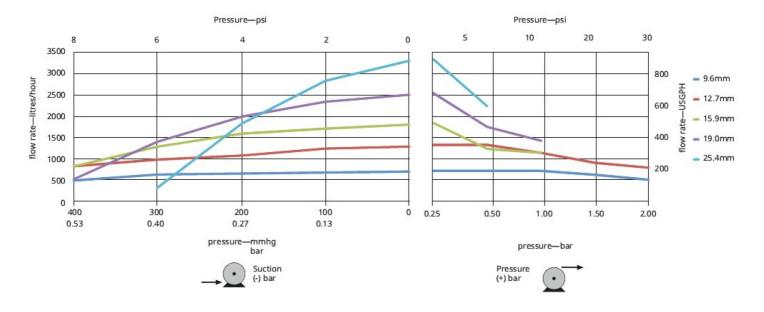




730 Drive with 720R/RX pumphead performance

720RX four-roller extension pumpheads for continuous 4.8 mm wall thickness tubing — Tube bore and flow rates — L/h (USGPH)											
720D/DV ****	0.25 bar (3.6 ps	si)	0.5 bar (8 psi)		1 bar (15 psi)		1.5 bar (22 psi)		2 bar (30 psi)		
720R/RX twin pumpheads	Max speed (rpm)*	Max flow	Max speed (rpm)*		Max speed (rpm)*	Max flow	Max speed (rpm)*	Max flow	Max speed (rpm)*	Max flow	
9.6 mm (0.4")	300*	700 (185)	300*	700 (185)	300*	700 (185)	250	590 (156)	200	470 (124)	
12.7 mm (0.5")	300*	1300 (343)	300*	1300 (343)	250	1100 (291)	200	870 (230)	175	760 (201)	
15.9 mm (0.6")	300*	1800 (476)	200	1200 (317)	175	1100 (291)					
19.0 mm (0.7")	300*	2500 (660)	200	1700 (449)	160	1390 (367)					
25.4 mm (1.0")	300*	3300 (872)	200	2200 (581)							

^{*}The maximum speed is reduced at increased discharge pressures to ensure safe running of the pump



Technical specifications

	730 Drive with 720R/RX pumphead
Pumphead number of rollers	4
Pumphead number of channels	1
Max. flow rate	3300 L/h
Min. flow rate	0.12 L/h
Max. flow rate	872 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	31.5 kg
Weight	69.4 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	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

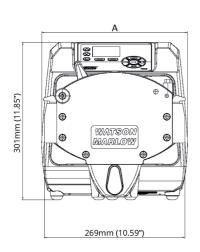
Materials of construction

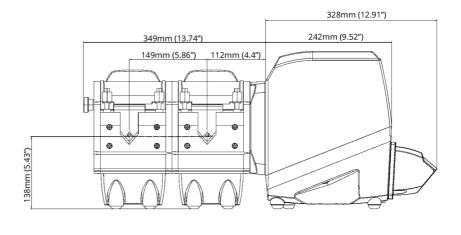
	730 Drive with 720R/RX pumphead							
Driveshaft	Stainless steel 440C							
Drive casework	Pressure die-cast aluminium LM24, Pressure die-cast aluminium LM6							
Drive casework coating	Alocrom pre-treatment, Exterior grade polyester powder coat							
Guide roller assembly	MoS2 filled Nylon 6 (Nylatron)							
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/RX pumphead dimensions





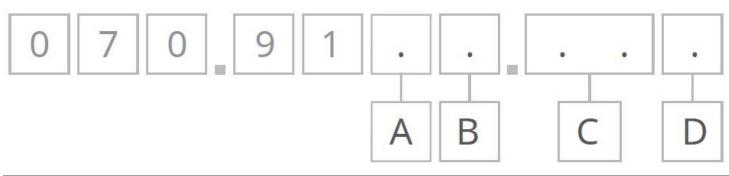
	Dimension A
720RX	279 mm (11")

Control options

Key to pump drive models																					
730SN	730UN	730DuN		730BpN			730US				73	730DuS				730EnN			730PnN		
Standard IP66 / NEMA 4X			versal IP66 /	Bus Pu	mp / Prof NEMA 4X	fibus	Universal SCADA / NEMA 4X			A / IP66	/ IP66 Digital U IP66 / NE		niversal SCADA /		EtherNet/IP NEMA 4X				ROFIN	DFINET® / IP66 MA 4X	
Manual control																					
Pump drives 730SN						0UN	N 730DuN		uN	730	Bpl	N	730US		730DuS		730EnN		73	30Pr	ıN
Intuitive keypad and colour display								√		√					√ √		✓		√		
Choice of flowrate or speed display							V		√		√		_	<u></u>			√		7		
Full calibration with choice of flow units					V		V			7			V				√		7	7	
MemoDose function ✓					1					1			1	7	1				1		
				✓	V					_	V		1	1			V		V		
Guard switch detection				✓	v		√		V			1	1			V					
Leak detection					√		√		√ ✓			1	1			√			V		
Dipensing (Network Co	ntrol)										+										
Remote control										Г											
Pump drives										7305	N :	730UN	730DuN	730	ВрМ	730US 730Du		Dus	uS 730EnN 730		730Pn
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,	
Direction change and a										+		<u>, </u>	1	+		<u> </u>	Ť			\dashv	
Direction change and a						.,				+	+	-	1	+		1	1			\dashv	
Remote operation of M				9.0/						+	٦,	√	y	+		√ ✓	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:	30D:	иN	730BpN	730	אווכ	730D	ıs	730E	nN	730	0PnN
Fully configurable input	to: 0.10 V or 4.20 m	. ^					75031	•	/ /			730Bph		√ √	√ √		73021110		1114	730)F IIIV
Analogue outputs; 0-10		<u> </u>							<i>y</i>				7			1				\vdash	
Keypad/analogue input		ent of dianhr	arm numns	:)					•	7				╅		7				\vdash	
Tacho frequency output		eric or diaprii	agiii pailips	''					1					+		+				\vdash	
2x sensor inputs 4-20 m									ľ	Ť				+		+		1		1	
Security									1				<u> </u>					ļ-		1.	
Pump drives		730SN	72	0UN	720	DuN	730BpN			73011		730US	5 730DuS			730E	in NI		7301	Dn N	
3-level security PIN lock	,	/303N	/ J	UUIN	/ J	DUN	/ /30BpN			/30U			/5 /50Du5			/30L	IIIV		J	IIIV	
					١,			ľ				<u> </u>				•					
Network communi	cation														-						
Pump drives			730SN	73	BOUN		30DuN	uN 730		30BpN		73			0DuS 7		730EnN		730)Pnl	N
RS485 network control			(\)			_ v								✓							
Digital pump comn	nands (Profibus	s / EtherNe	et/IP)																		
Pump drives				7309			OSN	730	730UN 730D		•		730U	JS 730DuS		730EnN		N	730	PnN	
PROFIBUS® DP V0												✓									
PROFINET® (CC-B & Ne	etload Class III)																			√	
EtherNet/IP™			. ,			_												✓			
Communication speeds			its/s			_						✓									
Network speed: 10/100						+		_		-		_						√			
Network speed: 100 Mb		peration																		✓	
Auto-detect bus speed						+						- +-	√			1				ļ.,	
Speed set point						_						✓			-		\rightarrow	<u>, </u>		<u>۷</u>	
Speed feedback Flow calibration function					+		\vdash				√ √			-		\rightarrow	√ √		√ √		
						+		\vdash		-		✓ ✓			-		\rightarrow	<u>√</u> √		,	
Hours run Revolution counter						+				-		-		-			_	<u>, </u>		,	
Revolution counter						+		\vdash		-		-\\\.			-		_	<u>√</u>		,	
Leak detection						+		\vdash		-		√		 			\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				v		'	
						- 1		1		1		- 1		1						l l	

 $^{{\}tt *Range\ of\ 3rd\ party\ pressure/flow\ sensors\ supported-see\ compatible\ sensor\ list\ on\ www.wmftg.com/literature}$

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 ^{1,2}	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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07 May 2024