RAIN BIRD

Product Technical Bulletin

Basket Filter Specification Update

January 4, 2024

SUBJECT: Basket Filter Specification Update

MODELS AFFECTED:

Product ID	Model	Description
X10329	XCZ100PRBLC	1 CZK PEB VALVE W/ PRB
X10330	XCZ100PRBCOM	CONTROL ZONE KIT 1" PRB COM
X10334QC	XCZ100IVMQ	1 CZK, PESB W IVM W QKCHK PRB
X14129	PRB100	1" PR BASKET FILTER
X14131	QKCHK100	QUICK CHECK 100 FILTER
X14140	PRBQKCHK100	1" PR QCHECK BASKET FILTER
X14141	IPRBQKCHK100	INTL 1" PRB QCHECK FILTER
X14145	IPRB100	1 INTL PR BASKET FILTER
X14157	FLOW150M	150M FLOW PRB FILTER ELEMENT
X14158	FLOW200M	200M FLOW PRB FILTER ELEMENT
X14142	QKCHK120M	QUICK CHECK 120 MESH ELEMENT
X14135	QKCHK150M	QUICK CHECK 150 MESH ELEMENT
X14136	QKCHK200M	QUICK CHECK 200 MESH ELEMENT

IMPLEMENTATION DATE CODE: March 1, 2024

Introduction:

Beginning March 1, 2024, all one-inch basket filters and related control zone kits will ship with a 150-mesh (~100-micron) filter screen. 120-mesh and 200-mesh replacement screens are also available separately. We have also made some minor improvements to the pressure-regulating basket filter regulators, so this bulletin also includes updated performance tables.

Interchangeability of Basket Filter Elements:

Flow-Indicating Basket Filters must use a FLOW150M or FLOW200M screen to preserve the flow-indicating function. These screens include a cylinder in the center which encloses the indicator plunger when assembled with the cap. Note: The Flow-Indicating basket filters and associated control-zone kits were discontinued in 2022 but replacement elements remain available to service units in the field.

PRB and Quick-Check basket filters can use any of the replacement filter elements listed in the table below.

Product ID	Model	Mesh	Color	Compatible with:	
				Flow-Indicating Basket Filter	PRB and Quick-Check
X14157	FLOW150M	150	Blue	Yes	Yes
X14158	FLOW200M	200	White	Yes	Yes
X14142	QKCHK120M	120	Green	No	Yes
X14135	QKCHK150M	150	Blue	No	Yes
X14136	QKCHK200M	200	White	No	Yes

Updated Performance Tables:

Updated tables of the Minimum Required Inlet Pressure to obtain nominal 40-PSI outlet pressure are shown below by model. We have included metric as well as imperial units for your convenience and are in the process of updating the technical data sheets and online catalog pages for these products.

PRB100, PRBQKCHK100, IPRB100, IPRBQKCHK100			
Minimum Inlet Pressure for 40 PSI outlet pressure		Minimum Inlet Pressure for 2.8 bar outlet pressure	
Flow (GPM)	Pressure (PSI)	Flow (LPM)	Pressure (bar)
5	45	20	3.2
6	46	25	3.3
7	47	30	3.4
8	48	35	3.5
9	49	40	3.6
10	51	45	3.7
11	52	50	3.8
12	53	55	3.9
13	54	60	3.9
14	55	65	4.0
15	56	70	4.1
16	58	75	4.2
17	59		
18	60		
19	61		
20	62		

XCZ-100-PRB-COM, XCZ-100-IVMQ, XCZ-100-PRBLC			
Minimum Inlet Pressure for 40 PSI outlet pressure		Minimum Inlet Pressure for 2.8 bar outlet pressure	
Flow (GPM)	Pressure (PSI)	Flow (LPM)	Pressure (bar)
5	47	20	8.2

Flow (GPM)	Pressure (PSI)	Flow (LPM)	Pressure (bar)
6	48	25	9.3
7	49	30	10.4
8	50	35	11.5
9	51	40	12.6
10	52	45	13.7
11	54	50	14.8
12	55	55	15.9
13	56	60	16.9
14	58	65	18.0
15	59	70	19.1
16	60	75	20.2
17	61		
18	63		
19	64		
20	65		

XCZ-100-PRBR			
Minimum Inlet Pressure for 40 PSI outlet pressure		Minimum Inlet Pressure for 2.8 bar outlet pressure	
Flow (GPM)	Pressure (PSI)	Flow (LPM)	Pressure (bar)
5	48	20	3.4
6	49	25	3.5
7	50	30	3.6
8	51	35	3.7
9	52	40	3.8
10	54	45	3.9
11	55	50	4.0
12	56	55	4.1
13	57	60	4.2
14	58	65	4.3
15	59	70	4.4
16	61	75	4.5
17	62		
18	63		
19	64		
20	65		

Service Part Information:

Not Applicable

Not Applicable

Special Instructions:

Not Applicable

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