

PRESSURE CONTROLS

Johnson Controls

P70/P170 Single Pole High Pressure Controls

Used in refrigeration and air conditioning applications. Available with Close-high, Open-low switch contact action.

NOTE: For refrigerants not listed, contact Johnson Controls Application Engineering.

OPERATION:

- Control employs a set of switch contacts that are opened and closed by the movement of pressure-actuated bellows
- The load carrying contact provide direct control of AC motors within the control rating

FEATURES:

- Fully adjustable through all pressure ranges
- Minimum differential
- Long life contact structure contact break is a hammer blow no bounce on make
- Manual reset models are trip-free



**JOHNSON
CONTROLS**

HEAD PRESSURE FAN CYCLING FOR R12, R22, R134A, R500, R502

Range psig	Differential Min / Max	Pressure Connector	Max. Bellows Press psig	Mfr#	Item#
0 - 150	12 / 70 psig	36" capillary w/ 1/4" flare nut	525	P700AA-2C	C878-10
100 - 400	35 / 200 psig	36" capillary w/ 1/4" flare nut	525	P70AA-118C	C878-14
100 - 400	35 / 200 psig	1/4" male flare nut	525	P170AA-118C	C878-29

ALL RANGE FOR R12, R22, R134A, R500, R502

50 - 450	Lockout - man. reset	36" capillary w/ 1/4" flare nut	525	P70DA-1C	C878-17
50 - 450	60 / 150	36" capillary w/ 1/4" flare nut	525	P70CA-3C	C878-16

APPROXIMATE LOW PRESSURE SETTINGS FOR TYPICAL APPLICATIONS

Application	Vacuum - in. Hg		Pressure PSIG (conversion factor: 1 psi = 6.9kPa)									
	Approximate Temp. °F		R12		R22		R502		R717		R134a	
	Cut out	Cut in	Cut out	Cut in	Cut out	Cut in	Cut out	Cut in	Cut out	Cut in	Cut out	Cut in
Ice cube maker - dry type coil	-11	14	4	17	16	37	22	45	-	-	2	15
Sweet water bath - soda fountain	20	31	21	29	43	56	52	66	33	45	18	28
Beer, water, milk cooler, wet type	17	31	19	29	40	56	48	66	-	-	16	26
Ice cream trucks, hardening rooms	-16	10	2	15	13	34	18	41	5	24	0	13
Eutectic plates, ice cream truck	-21	-11	1	4	11	16	16	22	4	8	1	2
Walk-in, defrost cycle	9	37	14	34	32	64	40	75	23	55	12	32
Reach-in, defrost cycle	20	39	19	36	40	68	48	78	30	57	16	36
Vegetable display, defrost cycle	7	38	13	35	30	66	38	77	-	-	10	34
Vegetable display case, open type	12	45	16	42	35	77	44	89	-	-	14	40
Beverage cooler, blower dry type	11	37	15	34	34	64	42	74	24	55	12	32
Retail florist, blower coil	29	45	28	42	55	77	65	89	44	67	26	40
Meat display case, defrost cycle	19	38	17	35	37	66	45	77	-	-	15	34
Meat display case, open type	4	28	11	27	27	63	35	63	-	-	8	25
Dairy case, open type	2	38	10	35	26	66	33	77	-	-	16	34
Frozen food, open type	-32	-9	7	5	4	17	8	24	-	-	10	3