

Revision Date: 12/16/2024

Subject: E913 Error Code

Models: CHILLER

Title: Water Flow Switch Error

Issue

System will not restart because "Water flow switch error" has been detected 6 times.

Troubleshooting Steps

1. Make sure the water circulating pump is running
2. Check pressure drop across heat exchanger and verify proper gallons per minute (GPM) are flowing through heat exchanger. Refer to Technical Data Book (TDB) for pressure drop charts
[Hyperlink to Chiller TDB](#)
3. Verify there are no flow control valves, isolation valves or bypass valves closed.
4. Verify is strainer is clear.
5. After verifying proper water flow, locate and test pressure transducers for inlet and outlet of heat exchanger located on the hydro board utilizing transducer charts below.

High Pressure		High Pressure		High Pressure		High Pressure	
Vout	PSIG	Vout	PSIG	Vout	PSIG	Vout	PSIG
0.5	0	1.5	181	2.5	363	3.5	544
0.6	18	1.6	199	2.6	381	3.6	562
0.7	36	1.7	218	2.7	399	3.7	580
0.8	54	1.8	236	2.8	417	3.8	598
0.9	73	1.9	254	2.9	435	3.9	616
1.0	91	2.0	272	3.0	453	4.0	635
1.1	109	2.1	290	3.1	471	4.1	653
1.2	127	2.2	308	3.2	490	4.2	671
1.3	145	2.3	326	3.3	508	4.3	689
1.4	163	2.4	344	3.4	526	4.4	707
						4.5	725

High Pressure Chart

Low Pressure		Low Pressure		Low Pressure		Low Pressure	
Vout	PSIG	Vout	PSIG	Vout	PSIG	Vout	PSIG
0.5	0	1.5	73	2.5	145	3.5	218
0.6	7	1.6	80	2.6	152	3.6	225
0.7	15	1.7	87	2.7	160	3.7	232
0.8	22	1.8	94	2.8	167	3.8	239
0.9	29	1.9	102	2.9	174	3.9	247
1.0	36	2.0	109	3.0	181	4.0	254
1.1	44	2.1	116	3.1	189	4.1	261
1.2	51	2.2	123	3.2	196	4.2	268
1.3	58	2.3	131	3.3	203	4.3	276
1.4	65	2.4	138	3.4	210	4.4	283
						4.5	290

Low Pressure Chart



CN402-PRESSURE SENSOR	
#1:	
#2:	PHE_IN SIGNAL
#3:	GND
#4:	5V

Molex pin connections