

Revision Date: 1/24/2025

Subject: E443 Error Code

Models: DVMS, ECO, CHILLER, WATER

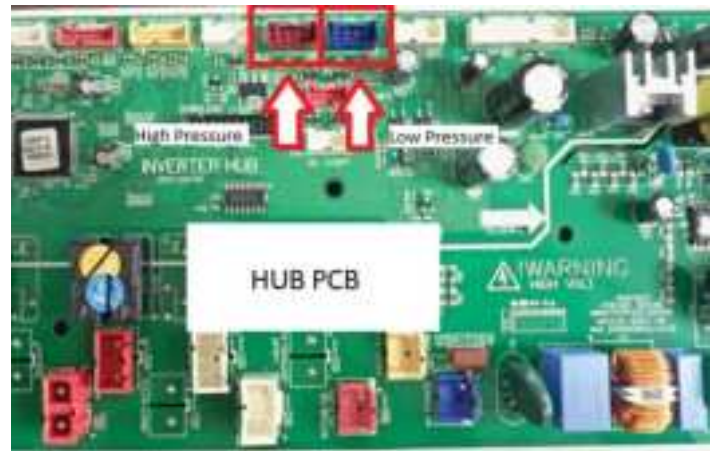
Title: Refrigerant Leak Error

Judgement Method:

If compressor is idle and pressure is below 14 PSIG on low side, error E443 will occur.

Troubleshooting Steps

1. Connect manifold gauges to system and verify standing pressure compared to ambient temp using a PT chart.
2. Connect laptop and open Samsung service software. (Snet Pro2)
3. Verify manifold gauges and Snet service software match. If they do not match, test pressure transducers. See low- and high-pressure transducer chart below.
4. If standing pressure is below 14 PSIG while in idle, place system in vacuum mode, pressure test system to 500 PSIG with dry nitrogen and test for leaks.
5. Locate and repair leaks, conduct triple evacuation process and weigh in charge per install manual or DVM pro file



***Molex connection on circuit board will be in a different location across models.**

***Check wiring diagram to ensure proper location.**

Low Pressure		Low Pressure		Low Pressure		Low Pressure	
Veist	PSIG	Veist	PSIG	Veist	PSIG	Veist	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

High Pressure		High Pressure		High Pressure		High Pressure	
Veist	PSIG	Veist	PSIG	Veist	PSIG	Veist	PSIG
0.5	0	1.5	181	2.5	363	3.5	544
0.6	18	1.6	189	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

