NIAGARA

Niagara Blower Heat Transfer Solutions

Niagara "HYGROL" Liquid Chart

Dehumidification Systems

Refrigerant Temperature °F	Concentration %Volume	Solution Boiling Point °F	Solution Freezing Point °F	Specific Gravity @70 °F	Refractive Index 68°F	Sucrose % @68°F
-	47	221.0	-4	1.074	1.393	39
-	55	223.0	-21	1.085	1.403	43
-	60	225.0	-34	1.091	1.409	46
-30	64	227.0	-40	1.096	1.413	48
-30	68	229.0	-40	1.100	1.418	50
-30	71	231.0	-40	1.103	1.421	51
-30	74	233.0	-40	1.107	1.425	53
-30	76	235.0	-40	1.109	1.427	54
-30	78	237.0	-40	1.111	1.429	55
-30	80	239.0	-40	1.113	1.433	56
-30	81	241.0	-40	1.114	1.434	56
-30	82	242.0	-40	1.115	1.435	57
-30	83	244.0	-40	1.116	1.436	57
-12	84	246.0	-22	1.117	1.437	58
-10	85	248.0	-20	1.118	1.438	58
-8	86	251.0	-18	1.119	1.439	59
-7	87	254.0	-17	1.120	1.440	59
-4	88	258.0	-14	1.121	1.441	60
-2	89	263.0	-12	1.121	1.442	60
0	90	268.0	-10	1.122	1.443	61
3	91	273.0	-7	1.123	1.444	61
6	92	279.0	-4	1.124	1.445	62

Instructions:

1. Find the conditioner operating refrigerant temperature in the first column.

2. The minimum recommended concentration is listed in the second column.

3. The BPA set point should correspond to the third column.

4. Using a refractometer, the last column will indicate the solution's sucrose value. The solution concentration is found in the second column.