



## Niagara Blower Heat Transfer Solutions

### Niagara "LV" Liquid Chart

#### "No-Frost" 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
36	10	214.0	26	1.018	1.345	8
29	20	216.7	19	1.032	1.356	15
24	25	217.9	14	1.039	1.362	19
17	30	219.2	7	1.046	1.367	22
14	32	219.6	4	1.049	1.369	23
11	34	220.1	1	1.052	1.371	24
8	36	220.6	-2	1.055	1.373	26
5	38	221.1	-5	1.058	1.375	27
1	40	221.7	-9	1.060	1.377	28
-3	42	222.3	-13	1.063	1.379	29
-7	44	223.1	-17	1.066	1.381	30
-11	46	224.0	-21	1.069	1.382	31
-15	48	225.0	-25	1.072	1.384	32
-19	50	226.1	-29	1.074	1.386	33
-24	52	227.2	-34	1.077	1.388	34
-29	54	228.4	-39	1.080	1.390	35
-34	56	229.8	-44	1.083	1.392	36
-36	57	230.6	-46	1.084	1.392	36
-39	58	231.2	-49	1.086	1.393	37
-44	60	232.7	-54	1.088	1.395	38

**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.