



MATHESON

ask. . .The Gas Professionals™

ROTAMETER TEMPERATURE CORRECTION FACTORS

TEMPERATURE (°F) FOR WHICH ROTAMETER IS CALIBRATED	TEMPERATURE (°F) FOR WHICH CORRECTION IS TO BE MADE																									
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250
0	1.000	0.990	0.979	0.969	0.959	0.950	0.941	0.932	0.923	0.915	0.907	0.898	0.891	0.883	0.876	0.868	0.861	0.855	0.848	0.842	0.835	0.829	0.822	0.816	0.811	0.805
10	1.010	1.000	0.990	0.979	0.970	0.960	0.951	0.942	0.933	0.924	0.917	0.908	0.900	0.893	0.885	0.878	0.871	0.864	0.857	0.850	0.844	0.838	0.831	0.825	0.820	0.814
20	1.021	1.010	1.000	0.990	0.980	0.970	0.961	0.952	0.943	0.935	0.926	0.918	0.910	0.903	0.894	0.887	0.880	0.873	0.866	0.859	0.853	0.846	0.840	0.834	0.828	0.822
30	1.032	1.021	1.010	1.000	0.990	0.980	0.971	0.962	0.952	0.944	0.935	0.927	0.919	0.912	0.903	0.896	0.889	0.882	0.875	0.868	0.861	0.855	0.849	0.842	0.837	0.831
40	1.042	1.032	1.020	1.010	1.000	0.990	0.980	0.971	0.962	0.953	0.945	0.937	0.929	0.921	0.913	0.905	0.898	0.891	0.884	0.877	0.870	0.864	0.858	0.851	0.845	0.839
50	1.053	1.042	1.031	1.020	1.010	1.000	0.991	0.981	0.972	0.963	0.955	0.946	0.938	0.930	0.923	0.914	0.907	0.900	0.893	0.886	0.879	0.873	0.866	0.860	0.854	0.847
60	1.063	1.052	1.041	1.030	1.020	1.009	1.000	0.991	0.981	0.973	0.964	0.955	0.947	0.939	0.931	0.923	0.916	0.909	0.902	0.894	0.888	0.881	0.875	0.868	0.862	0.856
70 OR ROOM	1.073	1.062	1.051	1.040	1.030	1.019	1.009	1.000	0.991	0.982	0.973	0.964	0.956	0.948	0.940	0.932	0.925	0.917	0.910	0.903	0.896	0.890	0.883	0.876	0.870	0.864
80	1.083	1.072	1.061	1.050	1.039	1.029	1.019	1.009	1.000	0.991	0.982	0.973	0.965	0.957	0.949	0.941	0.934	0.926	0.918	0.912	0.905	0.898	0.891	0.885	0.878	0.872
90	1.093	1.082	1.070	1.059	1.049	1.038	1.028	1.018	1.009	1.000	0.991	0.982	0.974	0.966	0.958	0.950	0.942	0.935	0.927	0.920	0.913	0.906	0.899	0.893	0.886	0.880
100	1.103	1.091	1.080	1.069	1.058	1.047	1.037	1.028	1.018	1.009	1.000	0.991	0.983	0.975	0.966	0.958	0.951	0.943	0.935	0.928	0.921	0.914	0.907	0.901	0.894	0.888
110	1.113	1.101	1.089	1.078	1.068	1.057	1.047	1.037	1.027	1.018	1.009	1.000	0.992	0.983	0.975	0.967	0.959	0.951	0.944	0.936	0.929	0.922	0.916	0.909	0.902	0.896
120	1.122	1.111	1.099	1.088	1.077	1.066	1.056	1.046	1.036	1.027	1.017	1.008	1.000	0.992	0.983	0.975	0.967	0.960	0.952	0.945	0.937	0.930	0.924	0.917	0.910	0.904
130	1.132	1.120	1.108	1.097	1.086	1.075	1.065	1.055	1.045	1.035	1.026	1.017	1.008	1.000	0.992	0.983	0.976	0.968	0.960	0.953	0.945	0.938	0.932	0.925	0.918	0.912
140	1.142	1.130	1.118	1.107	1.095	1.084	1.074	1.064	1.054	1.044	1.035	1.026	1.017	1.008	1.000	0.992	0.984	0.976	0.968	0.961	0.953	0.946	0.940	0.933	0.926	0.919
150	1.152	1.139	1.127	1.116	1.105	1.094	1.083	1.072	1.063	1.053	1.044	1.034	1.025	1.017	1.008	1.000	0.992	0.984	0.976	0.969	0.961	0.954	0.948	0.941	0.934	0.927
160	1.161	1.148	1.136	1.125	1.114	1.102	1.092	1.081	1.071	1.062	1.052	1.043	1.034	1.025	1.016	1.008	1.000	0.992	0.984	0.977	0.969	0.962	0.955	0.948	0.941	0.935
170	1.170	1.158	1.145	1.134	1.122	1.111	1.100	1.090	1.080	1.070	1.061	1.051	1.042	1.033	1.025	1.016	1.008	1.000	0.992	0.984	0.977	0.970	0.962	0.955	0.948	0.942
180	1.179	1.167	1.155	1.143	1.131	1.120	1.109	1.099	1.089	1.079	1.069	1.059	1.050	1.041	1.033	1.024	1.016	1.008	1.000	0.992	0.985	0.978	0.970	0.962	0.956	0.944
190	1.188	1.176	1.164	1.152	1.140	1.129	1.118	1.107	1.097	1.087	1.077	1.068	1.058	1.049	1.041	1.032	1.024	1.016	1.008	1.000	0.992	0.985	0.978	0.970	0.963	0.957
200	1.197	1.185	1.173	1.161	1.149	1.138	1.126	1.116	1.105	1.095	1.085	1.076	1.067	1.057	1.049	1.040	1.032	1.024	1.015	1.008	1.000	0.993	0.985	0.978	0.971	0.964
210	1.207	1.194	1.182	1.170	1.158	1.146	1.135	1.124	1.114	1.104	1.094	1.084	1.075	1.065	1.057	1.048	1.039	1.032	1.023	1.015	1.007	1.000	0.993	0.985	0.978	0.971
220	1.216	1.203	1.190	1.178	1.166	1.155	1.143	1.133	1.122	1.112	1.102	1.092	1.083	1.073	1.064	1.055	1.047	1.039	1.031	1.023	1.015	1.007	1.000	0.993	0.985	0.978
230	1.225	1.212	1.199	1.187	1.175	1.163	1.152	1.141	1.130	1.120	1.111	1.100	1.090	1.081	1.072	1.063	1.055	1.047	1.039	1.031	1.023	1.015	1.007	1.000	0.993	0.986
240	1.233	1.220	1.208	1.195	1.183	1.171	1.160	1.149	1.138	1.128	1.118	1.108	1.098	1.089	1.080	1.071	1.063	1.055	1.046	1.038	1.030	1.022	1.015	1.007	1.000	0.993
250	1.242	1.229	1.216	1.204	1.192	1.180	1.168	1.157	1.147	1.136	1.126	1.116	1.106	1.097	1.088	1.078	1.070	1.062	1.054	1.045	1.037	1.030	1.022	1.014	1.007	1.000

FOR ROTAMETER CALIBRATED IN FREE UNITS: ROTAMETER SCALE READING x FACTOR = CORRECTED FLOW FOR NEW CONDITION