

Pressure Drop and Heat Transfer

Product Select	H2O
Flow Increment	10
Minimum Flow Rate	50
Maximum Flow Rate	250
Temperature	200
Pipe/Tubing ID	Sch 40, 2" (2.067 inches)

Unit Selection

Temperature	°F
Density	lb/USG
Viscosity	centiPoise
Vapor Pressure	Psia
ThermalConductivity	BTU/(hr·ft²·°F/ft)
Specific Heat	BTU/lb·°F
Pressure Drop	psi/100ft
Heat Transfer Coeff	BTU/hr·ft²·°F
Flow Rate	USGPM
Flow Velocity	ft/s

GENERATE REPORT

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PARACALC™ ONLINE CALCULATION SOFTWARE

Temperature = 200 °F
 Vapor Pressure = 11.46 Psia
 Specific Heat = 1.03 BTU/lb·°F
 Therm Cond = 0.391 BTU/(hr·ft²·°F/ft)

PipeID = 2.067 inches
 Density = 8.04 lb/USG
 Viscosity = 0.3 centiPoise

Pressure Drop and Heat Transfer Coefficient - Paratherm H2O

Flow Rate USGPM	Velocity ft/s	Delta P psi/100ft	Heat Xfer Coef BTU/hr·ft²·°F	Reynolds #
50	4.8	2	1561	245738
60	5.7	2	1806	294886
70	6.7	3	2043	344033
80	7.7	4	2274	393181
90	8.6	5	2498	442329
100	9.6	6	2718	491476
110	10.5	7	2933	540624
120	11.5	8	3145	589771
130	12.4	10	3353	638919
140	13.4	11	3558	688067
150	14.3	13	3759	737214
160	15.3	15	3959	786362
170	16.3	16	4155	835509
180	17.2	18	4350	884657