

Beer Wort Chilling Chart with Duda Diesel Plate Heat Exchangers

Wort in: 212°F

Wort Out: 75°F

Max Pressure Drop: 10 psi

Water in: 68°F

Model = Model of the heat exchanger

Plates = Number of plates for given model

Water Flow = Flow rate of cooling water in gpm

Wort Flow = Flow rate of wort to be chilled in gpm

10 Gal Batch = Time in minutes to chill a 10 gallon batch of wort

Water Used = Gallons of water required to chill a 10 gallon batch

Water Out = Temperature of the cooling water in °F exiting the heat exchanger

Model	Plates	Water Flow (gpm)	Wort Flow (gpm)	10 gal Batch (min)	Water Used (gal)	Water Out (°F)	
B3-12A	10	5	0.43	23.3	116	79.6	
	20		0.75	13.3	67	88.2	
	30		0.98	10.2	51	94.5	
	40		1.16	8.6	43	99.3	
B3-23A	20		1.5	6.7	33	108.6	
	30		1.85	5.4	27	118.1	
	40		2.1	4.8	24	124.9	
	60		2.45	4.1	20	134.4	
B3-36A	20		2.18	4.6	23	127.1	
	30		2.57	3.9	19	137.7	
	40		2.84	3.5	18	145.1	
	60		3.19	3.1	16	154.7	
B3-23A	20		10	2.05	4.9	49	95.7
	30			2.65	3.8	38	103.8
	40			3.1	3.2	32	109.9
	60	3.8		2.6	26	119.4	
B3-36A	20	3.2		3.1	31	111.3	
	30	3.9		2.6	26	120.8	
	40	4.5		2.2	22	129	
	60	5.25		1.9	19	139.2	
B3-52A	20	4.5		2.2	22	129	
	40	5.85		1.7	17	147.4	
	60	6.6		1.5	15	157.7	
B3-23A	30	15		3.2	3.1	47	96.8
	40			3.8	2.6	39	102.2
	60			4.7	2.1	32	110.4
B3-36A	30			4.9	2.0	31	112.2
	40		5.7	1.8	26	119.4	
	60		6.8	1.5	22	129.4	
B3-52A	20		5.7	1.8	26	119.4	
	40		7.7	1.3	19	137.6	

	60	20	8.9	1.1	17	148.6
B3-95A	60		10.5	1.0	14	163.2
	90		11.44	0.9	13	171.9
B3-52A	40		9.3	1.1	22	131
	60		10.8	0.9	19	141.3
B3-95A	60		13.2	0.8	15	157.7
	90		14.4	0.7	14	166
B3-115A	120		15.2	0.7	13	171.5

For other sizings and recommendations please see:

http://www.dudadiesel.com/heat_exchangers.php