

## Model EST-DOAS-33 - Sensible Cooling Coil Performance Data

Model / Size	Rows	Water Flow (GPM)	Water PD (ft.w.g.)	SENSIBLE COOLING AIR FLOW (CFM)									
				200	250	300	350	400	450	500	550	600	
SIZE 33	2	1	.16	MBH	2.6	3.0	3.3	3.5	3.7	3.8	4.0	4.1	4.2
		2	.46		3.2	3.8	4.3	4.7	5.1	5.4	5.8	6.1	6.3
		3	.87		3.4	4.0	4.6	5.2	5.7	6.2	6.6	7.0	7.3
		4	1.40		3.4	4.1	4.8	5.4	5.9	6.4	6.9	7.4	7.8
		5	2.03		3.5	4.2	4.9	5.5	6.1	6.6	7.1	7.6	8.1
		6	2.76		3.5	4.2	4.9	5.6	6.2	6.8	7.3	7.8	8.3
		Air PD (in.w.g.)			.01	.01	.02	.02	.02	.03	.03	.03	.04
	4	1	.24	MBH	3.4	4.0	4.4	4.8	5.1	5.4	5.6	5.8	5.9
		2	.72		3.8	4.6	5.4	6.1	6.7	7.3	7.8	8.3	8.7
		3	1.43		3.9	4.8	5.6	6.4	7.2	7.9	8.6	9.2	9.8
		4	2.33		3.9	4.8	5.7	6.5	7.4	8.1	8.9	9.6	10.2
		5	3.43		3.9	4.8	5.7	6.6	7.4	8.3	9.0	9.8	10.5
		6	4.73		3.9	4.8	5.8	6.6	7.5	8.3	9.1	9.9	10.7
		Air PD (in.w.g.)			.01	.02	.02	.03	.03	.04	.05	.06	.06
	6	1	.31	MBH	3.7	4.4	5.0	5.5	5.9	6.2	6.5	6.7	6.9
		2	.99		3.9	4.9	5.7	6.6	7.4	8.1	8.7	9.4	9.9
		3	1.98		3.9	4.9	5.9	6.8	7.7	8.5	9.3	10.1	10.9
		4	3.27		4.0	4.9	5.9	6.8	7.8	8.7	9.5	10.4	11.2
		5	4.84		4.0	4.9	5.9	6.9	7.8	8.7	9.6	10.5	11.4
		6	6.69		4.0	4.9	5.9	6.9	7.8	8.8	9.7	10.6	11.5
		Air PD (in.w.g.)			.02	.02	.03	.04	.04	.05	.07	.08	.09

Unit	Rows	Water Flow (GPM)	Water PD (ft.w.g.)	SENSIBLE COOLING AIR FLOW (CFM)									
				600	700	800	900	1000	1050	1100	1150	1200	
SIZE 33	2	1	.16	MBH	4.2	4.4	4.5	4.6	4.7	4.8	4.8	4.9	4.9
		2	.46		6.3	6.8	7.2	7.5	7.8	8.0	8.1	8.2	8.4
		3	.87		7.3	8.0	8.6	9.1	9.6	9.8	10.0	10.2	10.4
		4	1.40		7.8	8.6	9.3	9.9	10.4	10.7	11.0	11.2	11.4
		5	2.03		8.1	8.9	9.7	10.4	11.0	11.3	11.6	11.9	12.2
		6	2.76		8.3	9.2	10.0	10.8	11.5	11.8	12.1	12.4	12.7
		Air PD (in.w.g.)			.04	.05	.06	.08	.09	.10	.11	.12	.13
	4	1	.24	MBH	5.9	6.2	6.4	6.6	6.7	6.7	6.8	6.9	6.9
		2	.72		8.7	9.5	10.1	10.7	11.1	11.4	11.6	11.7	11.9
		3	1.42		9.8	10.9	11.8	12.7	13.5	13.8	14.1	14.4	14.7
		4	2.32		10.2	11.5	12.6	13.7	14.6	15.0	15.4	15.8	16.2
		5	3.42		10.5	11.9	13.1	14.3	15.3	15.8	16.3	16.8	17.2
		6	4.71		10.7	12.1	13.4	14.7	15.8	16.4	16.9	17.4	17.9
		Air PD (in.w.g.)			.06	.08	.11	.13	.16	.18	.20	.21	.23
	6	1	.31	MBH	6.9	7.2	7.4	7.5	7.7	7.7	7.8	7.8	7.9
		2	.98		9.9	10.9	11.7	12.4	12.9	13.2	13.4	13.6	13.8
		3	1.97		10.9	12.2	13.5	14.5	15.5	15.9	16.4	16.7	17.1
		4	3.26		11.2	12.7	14.2	15.5	16.7	17.2	17.8	18.3	18.8
		5	4.83		11.4	13.0	14.6	16.0	17.4	18.0	18.6	19.2	19.8
		6	6.67		11.5	13.2	14.8	16.3	17.8	18.5	19.2	19.8	20.4
		Air PD (in.w.g.)			.09	.12	.15	.19	.24	.26	.29	.31	.34

1 MBH = 1,000 BTU / HR  
 GPM = GALLONS / MIN  
 CFM = CUBIC FEET / MIN

NOTES: MBH in table is based on **Entering Air Temperature of 75°F** and **Entering Water Temperature of 57°F** (55°F - 62°F typical), 0% glycol, sea level. To prevent cooling coil condensation, maintain water temperature above dewpoint. Sensible Cooling MBH shown is for induction air only across the coil, and is added to the primary air (latent & sensible MBH) for total cooling capacity.

## Model EST-DOAS-33 - Sensible Cooling Coil Performance Data

Unit	Rows	Water Flow (GPM)	Water PD (ft.w.g.)	MBH	SENSIBLE COOLING AIR FLOW (CFM)								
					1000	1075	1150	1225	1300	1375	1450	1525	1600
SIZE 50	2	1	.18	MBH	5.2	5.3	5.4	5.4	5.5	5.5	5.6	5.6	5.6
		2	.51		8.7	9.0	9.2	9.4	9.6	9.8	9.9	10.1	10.2
		3	.98		10.6	11.0	11.3	11.6	11.9	12.2	12.5	12.7	13.0
		4	1.58		11.5	11.9	12.4	12.8	13.1	13.5	13.8	14.2	14.5
		5	2.30		12.1	12.6	13.1	13.6	14.0	14.4	14.8	15.2	15.5
		6	3.13		12.5	13.1	13.6	14.1	14.6	15.1	15.5	15.9	16.6
		Air PD (in.w.g.)			.06	.06	.07	.08	.09	.10	.11	.12	.13
	4	1	.27	MBH	7.1	7.2	7.3	7.4	7.4	7.5	7.5	7.6	7.6
		2	.83		12.0	12.3	12.7	12.9	13.2	13.4	13.6	13.8	14.0
		3	1.64		14.4	15.0	15.5	16.0	16.5	16.9	17.3	17.6	18.0
		4	2.69		15.5	16.3	16.9	17.6	18.2	18.8	19.3	19.8	20.3
		5	3.97		16.2	17.1	17.8	18.6	19.3	20.0	20.6	21.2	21.8
		6	5.46		16.7	17.6	18.5	19.3	20.1	20.8	21.6	22.2	22.9
		Air PD (in.w.g.)			.10	.11	.13	.14	.16	.18	.20	.22	.27
	6	1	.36	MBH	8.0	8.1	8.1	8.2	8.2	8.3	8.3	8.4	8.4
		2	1.14		13.7	14.1	14.4	14.7	15.0	15.2	15.4	15.6	15.7
		3	2.30		16.3	17.0	17.7	18.3	18.8	19.3	19.8	20.2	20.6
		4	3.80		17.4	18.3	19.2	20.0	20.8	21.5	22.2	22.8	23.4
		5	5.64		18.0	19.1	20.1	21.0	21.9	22.8	23.6	24.4	25.1
		6	7.79		18.4	19.5	20.6	21.6	22.6	23.6	24.5	25.4	26.3
		Air PD (in.w.g.)			.14	.16	.18	.21	.23	.26	.28	.31	.34

1 MBH = 1,000 BTU / HR

GPM = GALLONS / MIN

CFM = CUBIC FEET / MIN

NOTES: MBH in table is based on **Entering Air Temperature of 75°F** and **Entering Water Temperature of 57°F** (55°F - 62°F typical), 0% glycol, sea level. To prevent cooling coil condensation, maintain water temperature above dewpoint. Sensible Cooling MBH shown is for induction air only across the coil, and is added to the primary air (latent & sensible MBH) for total cooling capacity.

## Model EST-DOAS-33 - Sensible Cooling Coil Performance Data

Unit	Rows	Water Flow (GPM)	Water PD (ft.w.g.)		SENSIBLE COOLING AIR FLOW (CFM)								
					1200	1300	1400	1500	1600	1700	1800	1900	2000
SIZE 75 & SIZE 10	2	1	.19	MBH	5.8	5.9	5.9	6.0	6.0	6.1	6.1	6.2	6.2
		2	.57		10.1	10.4	10.6	10.9	11.1	11.3	11.5	11.6	11.8
		3	1.09		12.4	12.9	13.3	13.7	14.0	14.3	14.7	14.9	15.2
		4	1.76		13.6	14.1	14.7	15.2	15.6	16.1	16.5	16.8	17.2
		5	2.57		14.3	15.0	15.6	16.2	16.8	17.3	17.8	18.2	18.6
		6	3.51		14.9	15.6	16.3	17.0	17.6	18.2	18.7	19.2	19.7
		Air PD (in.w.g.)			.05	.06	.07	.08	.09	.10	.11	.12	.13
	4	1	.30	MBH	7.6	7.7	7.8	7.8	7.9	7.9	8.0	8.0	8.0
		2	.94		13.5	13.9	14.2	14.5	14.7	14.9	15.1	15.3	15.4
		3	1.86		16.6	17.3	17.9	18.4	18.9	19.4	19.8	20.1	20.5
		4	3.06		18.2	19.1	19.9	20.7	21.4	22.0	22.6	23.1	23.7
		5	4.51		19.2	20.2	21.2	22.1	23.0	23.8	24.5	25.2	25.9
		6	6.21		19.8	20.9	22.0	23.1	24.0	25.0	25.8	26.7	27.4
		Air PD (in.w.g.)			.09	.11	.12	.14	.16	.18	.20	.22	.24
	6	1	.41	MBH	8.4	8.4	8.5	8.5	8.6	8.6	8.6	8.6	8.7
		2	1.30		15.2	15.5	15.8	16.1	16.3	16.4	16.6	16.7	16.8
		3	2.63		18.8	19.5	20.2	20.9	21.4	21.9	22.3	22.7	23.0
		4	4.35		20.4	21.5	22.5	23.5	24.3	25.1	25.8	26.4	27.0
		5	6.45		21.3	22.6	23.9	25.0	26.1	27.1	28.0	28.9	29.7
		6	8.92		21.8	23.3	24.7	26.0	27.2	28.3	29.4	30.5	31.4
		Air PD (in.w.g.)			.13	.15	.17	.20	.23	.25	.28	.32	.35

Unit	Rows	Water Flow (GPM)	Water PD (ft.w.g.)		SENSIBLE COOLING AIR FLOW (CFM)								
					1600	1690	1775	1865	1950	2040	2125	2215	2300
SIZE 75 & SIZE 10	2	1	.19	MBH	6.0	6.1	6.1	6.2	6.2	6.2	6.3	6.2	6.3
		2	.57		11.1	11.3	11.4	11.6	11.7	11.8	11.9	11.8	12.2
		3	1.09		14.0	14.3	14.6	14.8	15.1	15.3	15.5	15.3	15.9
		4	1.76		15.6	16.0	16.4	16.7	17.0	17.3	17.6	17.3	18.2
		5	2.57		16.8	17.2	17.6	18.1	18.4	18.8	19.1	18.8	19.8
		6	3.51		17.6	18.1	18.6	19.0	19.5	19.9	20.3	19.9	21.1
		Air PD (in.w.g.)			.09	.10	.11	.12	.13	.14	.15	.14	.17
	4	1	.30	MBH	7.9	7.9	8.0	8.0	8.0	8.1	8.1	8.1	8.1
		2	.94		14.7	14.9	15.0	15.2	15.3	15.5	15.6	15.5	15.8
		3	1.86		18.9	19.3	19.7	20.0	20.3	20.6	20.8	20.6	21.3
		4	3.06		21.4	21.9	22.5	23.0	23.4	23.9	24.2	23.9	25.0
		5	4.51		23.0	23.7	24.3	25.0	25.5	26.1	26.6	26.1	27.6
		6	6.21		24.0	24.9	25.6	26.4	27.1	27.7	28.3	27.7	29.5
		Air PD (in.w.g.)			.16	.17	.19	.21	.23	.25	.27	.25	.31
	6	1	.41	MBH	8.6	8.6	8.6	8.6	8.7	8.7	8.7	8.7	8.7
		2	1.30		16.3	16.4	16.6	16.7	16.8	16.9	17.0	16.9	17.1
		3	2.63		21.4	21.8	22.2	22.5	22.8	23.1	23.4	23.1	23.8
		4	4.35		24.3	25.0	25.6	26.2	26.7	27.2	27.7	27.2	28.5
		5	6.45		26.1	27.0	27.8	28.6	29.3	30.0	30.6	30.0	31.8
		6	8.92		27.2	28.2	29.2	30.1	31.0	31.8	32.6	31.8	34.1
		Air PD (in.w.g.)			.23	.25	.28	.30	.33	.36	.39	.36	.46

1 MBH = 1,000 BTU / HR  
 GPM = GALLONS / MIN  
 CFM = CUBIC FEET / MIN

NOTES: MBH in table is based on **Entering Air Temperature of 75°F** and **Entering Water Temperature of 57°F** (55°F - 62°F typical), 0% glycol, sea level. To prevent cooling coil condensation, maintain water temperature above dewpoint. Sensible Cooling MBH shown is for induction air only across the coil, and is added to the primary air (latent & sensible MBH) for total cooling capacity.