

HEAT TREATMENT - PEST MANAGEMENT GUIDELINE DATA SHEET

Data Sheet AHTG-102

PORTABLE HEATER OUTPUT/THROW VARIATIONS BY PRESSURE/INLET TEMPERATURE

MODEL: CAQ-202-HS-T12/X23 Portable Steam Heater System

FAN SCFM: 4,560

EAT (°F)	MBH @ 2 PSIG	FINAL LAT (°F) OUT	THROW (ft) @ 2 PSIG (219F/966 btu/#)	#/hr Cond.	MBH @ 10 PSIG	FINAL LAT (°F) OUT	THROW (ft) @ 10 PSIG (239F/953 btu/#)	#/hr Cond.	MBH @ 50 PSIG	FINAL LAT (°F) OUT	THROW (ft) @ 50 PSIG (298F/912 btu/#)	#/hr Cond.	MBH @ 100 PSIG	FINAL LAT (°F) OUT	THROW (ft) @ 100 PSIG (338F/880 btu/#)	#/hr Cond.
60	253.00	111	65	262	285.89	118	62	300	379.50	137	54	416	442.75	150	48	503
90	197.34	130	69	204	230.23	137	66	242	318.78	155	59	350	379.50	167	54	431
100	179.63	136	71	186	212.52	143	70	223	301.07	161	61	330	359.26	173	55	408
125	139.15	153	73	144	169.51	159	71	178	258.06	177	63	283	316.25	189	59	359
150	98.67	170	77	102	129.03	176	75	135	215.05	194	68	236	273.24	205	63	311

NOTE: Heater Throw will change as LAT increases. Design for final conditions to insure overlap is allowed for and/or add additional portable floor fans to maintain proper air circulation.

NOTE: Adjust LAT with provided OB-30 temperature control valve on steam supply.

Adjust OB-30 setting such that FINAL LAT DESIRED FROM CAQ-202 is approx. 20dg ABOVE FINAL DESIRED SPACE (Kill/Cook) temperature.

NOTE: Steam pressure shown is AT COIL INLET NOT AT CONTROL VALVE INLET. Estimate 20% drop across OB-30 for design purposes.

NOTE: OB-30 control valve is SELF REGULATING. It will LOWER HIGHER INLET PRESSURE AS EAT INCREASES AUTOMATICALLY, TO MAINTAIN DESIRED LAT.

NOTE: Condensate return back pressure/lift, head, pipe losses will affect drainage rate from Steam Trap.

Ensure adequate differential pressure across trap (inlet side to outlet side) to ensure drainage of condensate from steam coil at all times.

If WATER HAMMER occurs (banging in pipes, condensate system shaking, etc.), then condensate may not be moving out of system.

If excessive WATER HAMMER is noted, then system should be shut down, cooled off then investigate problems before restarting.



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