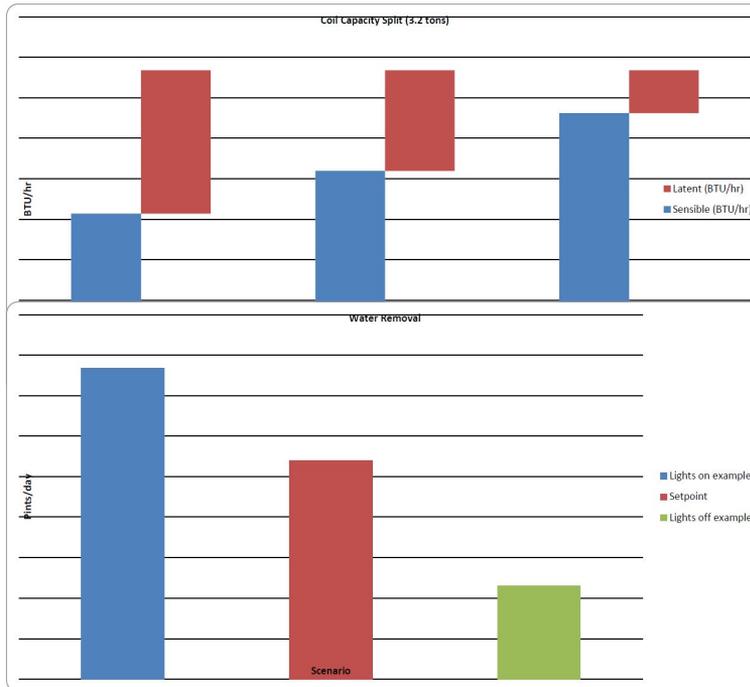


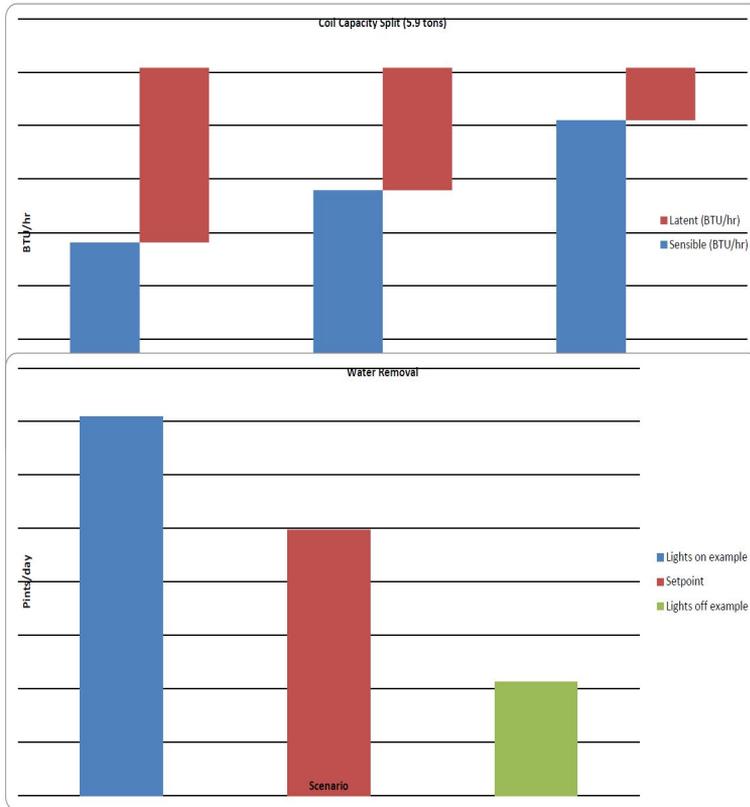
TriCleanAir DHVAC Performance Data



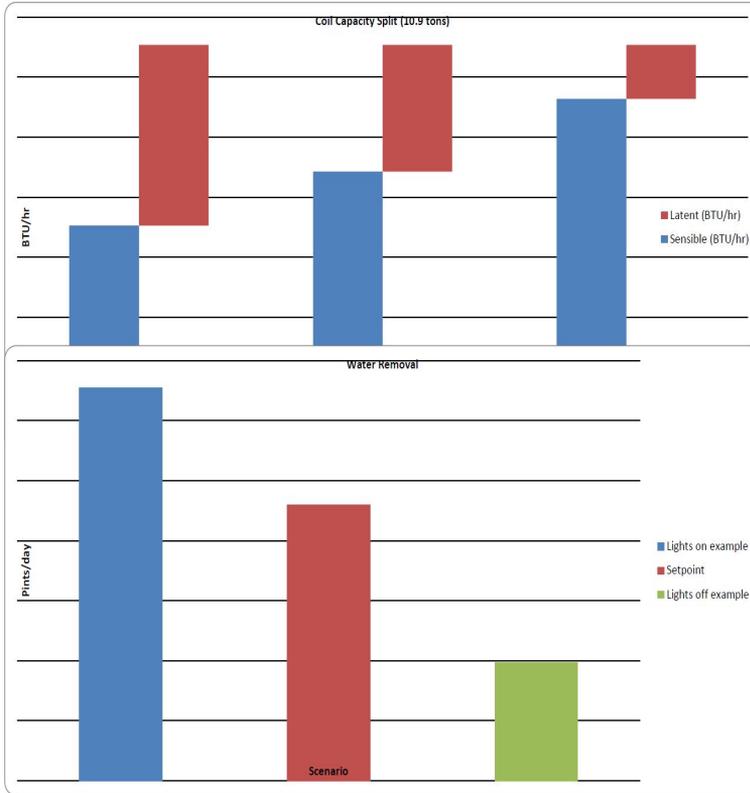
Scenario	Entering DB (°F)	Entering RH (%)	Entering grains/lb	Coil out (°F)	Coil out grains/lb	Airflow (CFM)	Total (BTU/hr)	Sensible (BTU/hr)	Latent (BTU/hr)	SHR	Water removal (lb/hr)	Water removal (pints/day)
Lights on example	80.00	60.00	92.07	55.00	53.40	638.81	38400	20698	17702	0.54	16.68	384
Setpoint	75.00	55.00	71.20	50.00	53.40	962.32	38400	25983	12417	0.68	11.70	270
Lights off example	72.00	50.00	58.35	50.00	53.40	1392.71	38400	33091	5309	0.86	5.00	115



Scenario	Entering DB (°F)	Entering RH (%)	Entering grains/lb	Coil out (°F)	Coil out grains/lb	Airflow (CFM)	Total (BTU/hr)	Sensible (BTU/hr)	Latent (BTU/hr)	SHR	Water removal (lb/hr)	Water removal (pints/day)
Lights on example	80.00	60.00	92.07	55.00	53.40	1177.81	70800	38161	32639	0.54	30.76	709
Setpoint	75.00	55.00	71.20	50.00	53.40	1774.28	70800	47906	22894	0.68	21.58	497
Lights off example	72.00	50.00	58.35	50.00	53.40	2567.80	70800	61011	9789	0.86	9.23	213



Scenario	Entering DB (°F)	Entering RH (%)	Entering grains/lb	Coil out (°F)	Coil out grains/lb	Airflow (CFM)	Total (BTU/hr)	Sensible (BTU/hr)	Latent (BTU/hr)	SHR	Water removal (lb/hr)	Water removal (pints/day)
Lights on example	80.00	60.00	92.07	55.00	53.40	2175.96	130800	70501	60299	0.54	56.83	1309
Setpoint	75.00	55.00	71.20	50.00	53.40	3277.91	130800	88504	42296	0.68	39.86	918
Lights off example	72.00	50.00	58.35	50.00	53.40	4743.91	130800	112715	18085	0.86	17.04	393



Assumptions used in calculations:

Wet coil leaving air assumed 50°F, 100% RH (saturated).

Reheat brings supply air back to room temperature (neutral sensible to space).

Sea level barometric pressure (14.696 psia).

Psychrometric equations use standard approximations (Buck saturation pressure; ASHRAE-style enthalpy).

Scenarios included:

- Lights on example: 80°F / 60% RH
- Setpoint: 75°F / 55% RH
- Lights off example: 72°F / 50% RH

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