Models AVW and ABW

▼ Hot Water Coil

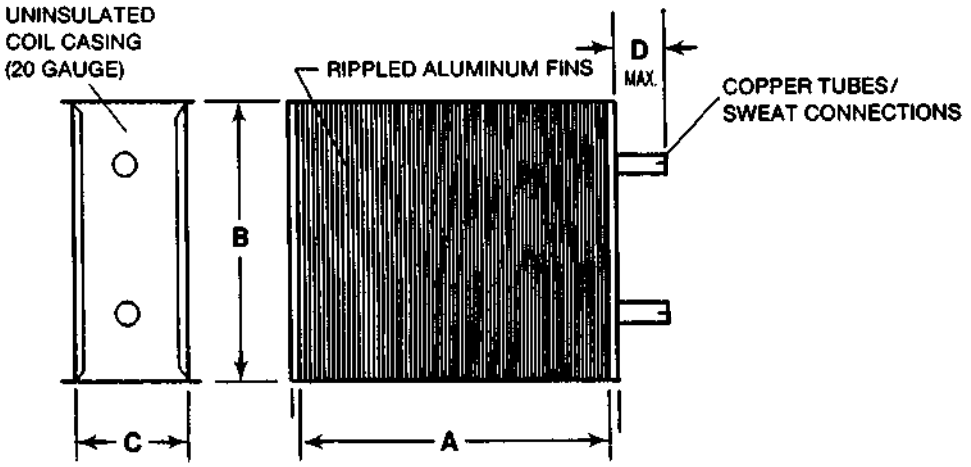
The Carnes Hot Water Coil is available on VAV throttling units as an optional accessory. Hot water coils are attached to the terminal unit as standard. Frames are constructed of 20 gauge galvanized steel. Coils must fill from lower tube and discharge from upper tube.

Features Include:

- One or two row design (single or multiple circuit).
- 1/2" O. D. staggered copper tube.
- 1-1/4" x 1.08 rippled aluminum fins.
- Galvanized steel casing.
- 10 fins per inch (FPI) standard.
- Coil pre-tested underwater at 350 PSI.
- Slip and drive connections.

Available Modules:

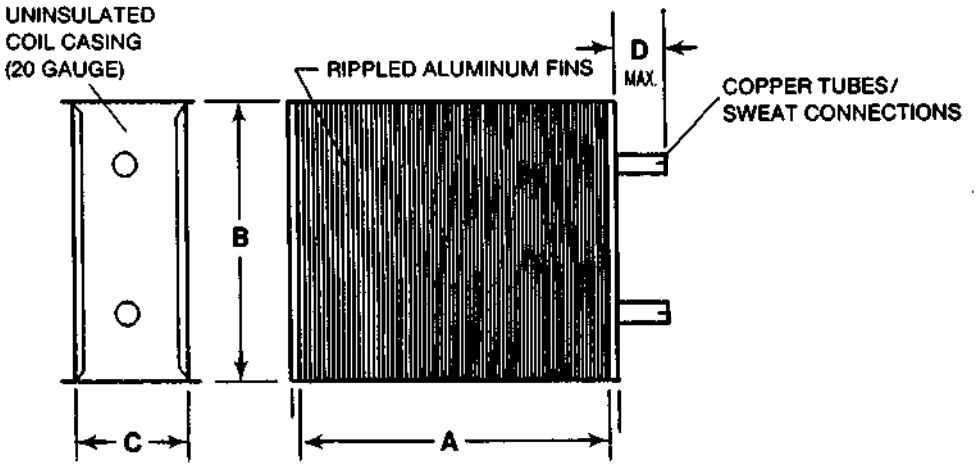
- 3 or 4 row coils (multiple circuit).
- Steam coils.
- 8, 12 or 14 fins per inch (FPI).
- **NOTE:** Factory installed insulation is **NOT** available.



COIL DIMENSIONS (Listed in Inches)									
Unit & Size		Coil Size		C		1 - Row	2 - Row	O.D. Coil Connection	
AVW	ABW	A	B	1 - Row	2 - Row	D. Max	D Max.	1 - Row	2 - Row
5/6	---	12	8	3 1/8	4 1/2	3	3	1/2	1/2
7/8	6/7/8	12	10	3 1/8	4 1/2	3	3	1/2	5/8
---	---	14	10	3 1/8	4 1/2	3	3	1/2	5/8
10	10	14	12 1/2	3 1/8	4 1/2	3	3	1/2	5/8
---	---	16	12 1/2	3 1/8	4 1/2	3	3	1/2	5/8
12	12	16	15	3 1/8	4 1/2	3 1/2	4	5/8	7/8
14	14	20	17 1/2	3 1/8	4 1/2	3 1/2	4	5/8	7/8
16	16	24	18	3 1/8	4 1/2	3 1/2	4	5/8	7/8
---	---	24	20	3 1/8	4 1/2	3 1/2	4	5/8	7/8
18/24	18/24	32	17 1/2	3 1/8	4 1/2	3 1/2	4	5/8	7/8
---	---	20	10	3 1/8	4 1/2	3 1/2	4	5/8	5/8
---	---	24	10	3 1/8	4 1/2	3 1/2	4	5/8	5/8
---	---	32	10	3 1/8	4 1/2	3 1/2	4	5/8	5/8

NOTES:
1. *Coil connections may be ordered as right hand or left hand, determined by facing the averaging flow sensor (inlet of unit) with the supply air hitting the back of your head.*
2. *Coil is provided with slip and drive connections and is uninsulated.*
3. *Standard coils are not recommended for steam.*
4. *Fin spacing for all coils is 10 fins per inch.*
5. *All coils are constructed using 1/2" O.D. staggered copper tubes, rippled aluminum fins and 20 gauge galvanized steel frame.*
6. *GPM above or below catalog values are not recommended.*

COIL DIMENSIONS (Listed in Millimeters)									
Unit & Size		Coil Size		C		1 - Row	2 - Row	O.D. Coil Connection	
AVW	ABW	A	B	1 - Row	2 - Row	D. Max	D Max.	1 - Row	2 - Row
5/6	---	305	203	79	114	76	76	13	13
7/8	6/7/8	305	254	79	114	76	76	13	16
---	---	356	254	79	114	76	76	13	16
10	10	356	318	79	114	76	76	13	16
---	---	406	318	79	114	76	76	13	16
12	12	406	381	79	114	89	102	16	22
14	14	508	445	79	114	89	102	16	22
16	16	610	457	79	114	89	102	16	22
---	---	610	508	79	114	89	102	16	22
18/24	18/24	813	445	79	114	89	102	16	22
---	---	508	254	79	114	89	102	16	16
---	---	610	254	79	114	89	102	16	16
---	---	813	254	79	114	89	102	16	16



COIL DIMENSIONS (Listed in Inches)									
Unit & Size		Coil Size		C		3 - Row	4 - Row	O.D. Coil Connection	
AVW	ABW	A	B	3 - Row	4 - Row	D. Max	D Max.	3 - Row	4 - Row
5/6	---	12	8	5 7/8	7 1/4	3 1/2	3 1/2	7/8	7/8
7/8	6/7/8	12	10	5 7/8	7 1/4	3 1/2	3 1/2	7/8	7/8
---	---	14	10	5 7/8	7 1/4	3 1/2	3 1/2	7/8	7/8
10	10	14	12 1/2	5 7/8	7 1/4	3 1/2	3 1/2	7/8	7/8
---	---	16	12 1/2	5 7/8	7 1/4	3 1/2	3 1/2	7/8	7/8
12	12	16	15	5 7/8	7 1/4	3 1/2	4	7/8	7/8
14	14	20	17 1/2	5 7/8	7 1/4	3 1/2	4	7/8	7/8
16	16	24	18	5 7/8	7 1/4	3 1/2	4	7/8	7/8
---	---	24	20	5 7/8	7 1/4	3 1/2	4	7/8	7/8
18/24	18/24	32	17 1/2	5 7/8	7 1/4	3 1/2	4	7/8	7/8
---	---	20	10	5 7/8	7 1/4	3 1/2	4	7/8	7/8
---	---	24	10	5 7/8	7 1/4	3 1/2	4	7/8	7/8
---	---	32	10	5 7/8	7 1/4	3 1/2	4	7/8	7/8

NOTES:
1. *Coil connections may be ordered as right hand or left hand, determined by facing the averaging flow sensor (inlet of unit) with the supply air hitting the back of your head.*
2. *Coil is provided with slip and drive connections and is uninsulated.*
3. *Standard coils are not recommended for steam.*
4. *Fin spacing for all coils is 10 fins per inch.*
5. *All coils are constructed using 1/2" O.D. staggered copper tubes, rippled aluminum fins and 20 gauge galvanized steel frame.*

COIL DIMENSIONS (Listed in Millimeters)									
Unit & Size		Coil Size		C		3 - Row	4 - Row	O.D. Coil Connection	
AVW	ABW	A	B	3 - Row	4 - Row	D. Max	D Max.	3 - Row	4 - Row
5/6	---	305	203	149	184	89	89	22	22
7/8	6/7/8	305	254	149	184	89	89	22	22
---	---	356	254	149	184	89	89	22	22
10	10	356	318	149	184	89	89	22	22
---	---	406	318	149	184	89	89	22	22
12	12	406	381	149	184	89	102	22	22
14	14	508	445	149	184	89	102	22	22
16	16	610	457	149	184	89	102	22	22
---	---	610	508	149	184	89	102	22	22
18/24	18/24	813	445	149	184	89	102	22	22
---	---	508	254	149	184	89	102	22	22
---	---	610	254	149	184	89	102	22	22
---	---	813	254	149	184	89	102	22	22

Models AVW and ABW

Select a one or two row coil for the desired GPM and MBH requirements from the graphs for the unit size and the CFM required.

Coil data is based on 125° (51°C) temperature difference between entering air and entering water. This represents the typical input conditions of 55° (13°C) entering air (EAT) and 180° (82°C) entering water (EWT).

Below are listed temperature difference factors for installations that have a different entering air temperature (EAT) and/or different entering water temperature (EWT) from the cataloged values.

Multiply the MBH obtained from the tables on the following pages by the temperature difference factor to obtain the MBH for actual conditions.

The formula for the temperature difference factor is:

$$\text{Temperature Difference Factor (TDF)} = \frac{\text{EWT - EAT}}{125}$$

The formula to calculate actual MBH from tables is.

$$\text{MBH}_{\text{actual}} = \text{TDF} \times \text{MBH}_{\text{from tables}}$$

Temperature Difference	(TDF) Factor	Temperature Difference	(TDF) Factor
80°F (27°C)	0.64	130°F (54°C)	1.04
90°F (32°C)	0.72	140°F (60°C)	1.12
100°F (38°C)	0.80	150°F (66°C)	1.20
110°F (43°C)	0.88	160°F (71°C)	1.28
120°F (49°C)	0.96	170°F (77°C)	1.36

Use the following formulas to convert temperature rise to MBH or vise verse:

$$\text{Air Temperature Rise} = \frac{\text{MBH x 1,000}}{\text{CFM x 1.08}}$$

$$\text{MBH} = \frac{\text{CFM x 1.08 x Air Temp. Rise}}{\text{1,000}}$$

$$\text{Water Temperature Drop} = \frac{\text{MBH}}{\text{.5 x GPM}}$$

$$\text{MBH} = \text{GPM x .5 x Water Temp. Drop}$$

GPM = Gallons Per Minute
MBH = 1000 Btu/h (British Thermal Units/Hour)
EWT = Entering Water Temperature °F
EAT = Entering Air Temperature °F

Optimum water flow for hot water coils is 3 to 6 feet per second (fps)

For the Carnes 1/2" (13mm) O. D. Tubes:

$$\text{GPM optimum} = \frac{\text{Circuits x Flow (fps)}}{1.74}$$

NOTES:

1. *Data is based on 180°F (82°C) EWT and 55°F (13°C) EAT.*
2. *GPM above or below catalog values not recommended.*
3. *Standard coils are not recommended for steam use.*
4. *Coil is shipped attached to the terminal unit and is uninsulated.*
5. *Coil connections may be ordered as right hand or left hand, determined by facing the averaging flow sensor (inlet of unit) with the supply air hitting the back of your head. Hand of coil may be field reversed.*

COIL DATA - **AVW 05** — 8 x 12 Coil

	1-Row (1 Circuit)				2-Row (1 Circuit)			
CFM	GPM	Head Loss	MBH	Coil APD	GPM	Head Loss	MBH	Coil APD
75	0.5	0.09	4.47	0.004	0.5	0.18	6.93	0.008
	1.0	0.30	4.91		1.0	0.62	7.61	
	1.5	0.61	5.09		1.5	1.26	7.88	
	2.0	1.00	5.18		2.0	2.08	8.02	
	3.0	2.04	5.28		3.0	4.23	8.16	
100	0.5	0.09	5.10	0.004	0.5	0.18	8.20	0.013
	1.0	0.30	5.70		1.0	0.62	9.21	
	1.5	0.61	5.94		1.5	1.26	9.61	
	2.0	1.00	6.07		2.0	2.08	9.83	
	3.0	2.04	6.22		3.0	4.23	10.06	
200	0.5	0.09	6.69	0.019	0.5	0.18	11.38	0.041
	1.0	0.30	7.77		1.0	0.62	13.57	
	1.5	0.61	8.24		1.5	1.26	14.50	
	2.0	1.00	8.50		2.0	2.08	15.03	
	3.0	2.04	8.80		3.0	4.23	15.60	
300	0.5	0.09	7.64	0.035	0.5	0.18	13.19	0.084
	1.0	0.30	9.08		1.0	0.62	16.31	
	1.5	0.61	9.73		1.5	1.26	17.72	
	2.0	1.00	10.10		2.0	2.08	18.52	
	3.0	2.04	10.52		3.0	4.23	19.41	
350	0.5	0.09	7.99	0.061	0.5	0.18	13.85	0.131
	1.0	0.30	9.59		1.0	0.62	17.38	
	1.5	0.61	10.32		1.5	1.26	18.99	
	2.0	1.00	10.74		2.0	2.08	19.92	
	3.0	2.04	11.21		3.0	4.23	20.96	

COIL DATA - **AVW 06** — 8 x 12 Coil

	1-Row (1 Circuit)				2-Row (1 Circuit)			
CFM	GPM	Head Loss	MBH	Coil APD	GPM	Head Loss	MBH	Coil APD
110	0.5	0.09	5.32	0.006	0.5	0.18	8.63	0.016
	1.0	0.30	5.97		1.0	0.62	9.77	
	1.5	0.61	6.24		1.5	1.26	10.23	
	2.0	1.00	6.38		2.0	2.08	10.48	
	3.0	2.04	6.54		3.0	4.23	10.74	
200	0.5	0.09	6.69	0.016	0.5	0.18	11.38	0.051
	1.0	0.30	7.77		1.0	0.62	13.57	
	1.5	0.61	8.24		1.5	1.26	14.50	
	2.0	1.00	8.50		2.0	2.08	15.03	
	3.0	2.04	8.80		3.0	4.23	15.60	
300	0.5	0.09	7.64	0.037	0.5	0.18	13.19	0.101
	1.0	0.30	9.08		1.0	0.62	16.31	
	1.5	0.61	9.73		1.5	1.26	17.72	
	2.0	1.00	10.10		2.0	2.08	18.52	
	3.0	2.04	10.52		3.0	4.23	19.41	
400	0.5	0.09	8.28	0.044	0.5	0.18	14.41	0.145
	1.0	0.30	10.04		1.0	0.62	18.30	
	1.5	0.61	10.84		1.5	1.26	20.11	
	2.0	1.00	11.31		2.0	2.08	21.16	
	3.0	2.04	11.84		3.0	4.23	22.35	
500	0.5	0.09	8.79	0.095	0.5	0.18	15.32	0.241
	1.0	0.30	10.81		1.0	0.62	19.84	
	1.5	0.61	11.74		1.5	1.26	22.01	
	2.0	1.00	12.29		2.0	2.08	23.28	
	3.0	2.04	12.92		3.0	4.23	24.74	

GPM above or below catalog values not recommended

Data Based on 180°F EWT and 55°F EAT

COIL DATA - **AVW, ABW 06, 07** — 10 x 12 Coil

	1-Row (1 Circuit)				2-Row (2 Circuit)			
CFM	GPM	Head Loss	MBH	Coil APD	GPM	Head Loss	MBH	Coil APD
140	0.5	0.12	6.71		1.0	0.12	11.86	
	1.0	0.41	7.63		2.0	0.41	13.04	
	2.0	1.36	8.22	0.011	3.0	0.82	13.50	0.025
	3.0	2.77	8.45		4.0	1.36	13.75	
	4.0	4.59	8.57		5.0	2.02	13.91	
200	0.5	0.12	7.70		1.0	0.12	14.34	
	1.0	0.41	8.97		2.0	0.41	16.17	
	2.0	1.36	9.81	0.017	3.0	0.82	16.91	0.045
	3.0	2.77	10.14		4.0	1.36	17.31	
	4.0	4.59	10.32		5.0	2.02	17.57	
400	0.5	0.12	9.63		1.0	0.12	19.30	
	1.0	0.41	11.74		2.0	0.41	22.93	
	2.0	1.36	13.24	0.053	3.0	0.82	24.51	0.150
	3.0	2.77	13.86		4.0	1.36	25.40	
	4.0	4.59	14.20		5.0	2.02	25.99	
600	0.5	0.12	10.72		1.0	0.12	22.14	
	1.0	0.41	13.43		2.0	0.41	27.15	
	2.0	1.36	15.46	0.114	3.0	0.82	29.42	0.320
	3.0	2.77	16.31		4.0	1.36	30.74	
	4.0	4.59	16.79		5.0	2.02	31.61	
700	0.5	0.12	11.12		1.0	0.12	23.19	
	1.0	0.41	14.09		2.0	0.41	28.78	
	2.0	1.36	16.34	0.136	3.0	0.82	31.36	0.397
	3.0	2.77	17.29		4.0	1.36	32.87	
	4.0	4.59	17.83		5.0	2.02	33.87	

COIL DATA - **AVW, ABW 08** — 10 x 12 Coil

	1-Row (1 Circuit)				2-Row (2 Circuit)			
CFM	GPM	Head Loss	MBH	Coil APD	GPM	Head Loss	MBH	Coil APD
185	0.5	0.12	7.49		1.0	0.12	13.79	
	1.0	0.41	8.67		2.0	0.41	15.46	
	2.0	1.36	9.45	0.014	3.0	0.82	16.13	0.041
	3.0	2.77	9.76		4.0	1.36	16.50	
	4.0	4.59	9.92		5.0	2.02	16.73	
400	0.5	0.12	9.63		1.0	0.12	19.30	
	1.0	0.41	11.74		2.0	0.41	22.93	
	2.0	1.36	13.24	0.044	3.0	0.82	24.51	0.165
	3.0	2.77	13.86		4.0	1.36	25.40	
	4.0	4.59	14.20		5.0	2.02	25.99	
600	0.5	0.12	10.72		1.0	0.12	22.14	
	1.0	0.41	13.43		2.0	0.41	27.15	
	2.0	1.36	15.46	0.088	3.0	0.82	29.42	0.347
	3.0	2.77	16.31		4.0	1.36	30.74	
	4.0	4.59	16.79		5.0	2.02	31.61	
800	0.5	0.12	11.47		1.0	0.12	24.09	
	1.0	0.41	14.66		2.0	0.41	30.20	
	2.0	1.36	17.12	0.135	3.0	0.82	33.07	0.555
	3.0	2.77	18.17		4.0	1.36	34.76	
	4.0	4.59	18.77		5.0	2.02	35.88	
1000	0.5	0.12	12.04		1.0	0.12	25.54	
	1.0	0.41	15.62		2.0	0.41	32.59	
	2.0	1.36	18.45	0.187	3.0	0.82	35.98	0.820
	3.0	2.77	19.69		4.0	1.36	37.99	
	4.0	4.59	20.39		5.0	2.02	39.34	

COIL DATA - **AVW, ABW 10** — 12-1/2 x 14 Coil

	1-Row (1 Circuit)				2-Row (2 Circuit)			
CFM	GPM	Head Loss	MBH	Coil APD	GPM	Head Loss	MBH	Coil APD
300	0.5	0.17	10.52		1.0	0.17	19.92	
	1.0	0.57	12.69		2.0	0.57	23.15	
	2.0	1.90	14.17	0.019	3.0	1.15	23.49	0.039
	3.0	3.86	14.76		5.0	2.81	25.70	
	4.0	6.39	15.08		8.0	6.39	26.45	
500	0.5	0.17	12.25		1.0	0.17	24.50	
	1.0	0.57	15.37		2.0	0.57	29.79	
	2.0	1.90	17.63	0.044	3.0	1.15	32.12	0.092
	3.0	3.86	18.56		5.0	2.81	34.29	
	4.0	6.39	19.08		8.0	6.39	35.69	
800	0.5	0.17	13.74		1.0	0.17	28.50	
	1.0	0.57	17.88		2.0	0.57	36.14	
	2.0	1.90	21.07	0.095	3.0	1.15	39.70	0.207
	3.0	3.86	22.43		5.0	2.81	43.14	
	4.0	6.39	23.19		8.0	6.39	45.41	
1200	0.5	0.17	14.94		1.0	0.17	31.68	
	1.0	0.57	20.06		2.0	0.57	41.65	
	2.0	1.90	24.21	0.195	3.0	1.15	46.53	0.421
	3.0	3.86	26.03		5.0	2.81	51.39	
	4.0	6.39	27.07		8.0	6.39	54.68	
1500	0.5	0.17	15.56		1.0	0.17	33.32	
	1.0	0.57	21.25		2.0	0.57	44.66	
	2.0	1.90	26.00	0.291	3.0	1.15	50.36	0.644
	3.0	3.86	28.12		5.0	2.81	56.14	
	4.0	6.39	29.34		8.0	6.39	60.12	

COIL DATA - **AVW, ABW 12** — 15 x 16 Coil

	1-Row (2 Circuit)				2-Row (3 Circuit)			
CFM	GPM	Head Loss	MBH	Coil APD	GPM	Head Loss	MBH	Coil APD
430	1.0	0.11	15.81		2.0	0.24	30.42	
	2.0	0.36	18.50		4.0	0.81	34.19	
	3.0	0.74	19.64	0.019	6.0	1.65	35.69	0.055
	4.0	1.22	20.29		8.0	2.73	36.51	
	5.0	1.80	20.70		10.0	4.03	37.03	
800	1.0	0.11	19.26		2.0	0.24	39.86	
	2.0	0.36	23.48		4.0	0.81	46.88	
	3.0	0.74	25.38	0.051	6.0	1.65	49.85	0.153
	4.0	1.22	26.49		8.0	2.73	51.52	
	5.0	1.80	27.21		10.0	4.03	52.59	
1200	1.0	0.11	21.44		2.0	0.24	45.97	
	2.0	0.36	26.87		4.0	0.81	55.75	
	3.0	0.74	29.41	0.100	6.0	1.65	60.08	0.313
	4.0	1.22	30.91		8.0	2.73	62.55	
	5.0	1.80	31.91		10.0	4.03	64.16	
1800	1.0	0.11	23.54		2.0	0.24	51.87	
	2.0	0.36	30.33		4.0	0.81	64.90	
	3.0	0.74	33.64	0.209	6.0	1.65	70.92	0.649
	4.0	1.22	35.63		8.0	2.73	74.43	
	5.0	1.80	36.96		10.0	4.03	76.74	
2300	1.0	0.11	24.77		2.0	0.24	55.29	
	2.0	0.36	32.45		4.0	0.81	70.51	
	3.0	0.74	36.28	0.314	6.0	1.65	77.72	0.988
	4.0	1.22	38.61		8.0	2.73	81.98	
	5.0	1.80	40.19		10.0	4.03	84.80	

GPM above or below catalog values not recommended

Data Based on 180°F EWT and 55°F EAT

COIL DATA - **AVW, ABW 14** — 17-1/2 x 20 Coil

	1-Row (2 Circuit)				2-Row (3 Circuit)			
CFM	GPM	Head Loss	MBH	Coil APD	GPM	Head Loss	MBH	Coil APD
600	1.0	0.15	21.04	0.029	2.0	0.33	40.70	0.056
	2.0	0.50	25.38		4.0	1.10	46.97	
	3.0	1.02	27.27		6.0	2.24	49.52	
	4.0	1.68	28.34		8.0	3.71	50.91	
	5.0	2.49	29.03		10.0	5.48	51.79	
1000	1.0	0.15	24.50	0.059	2.0	0.33	50.37	0.128
	2.0	0.50	30.73		4.0	1.10	60.74	
	3.0	1.02	33.60		6.0	2.24	65.20	
	4.0	1.68	35.26		8.0	3.71	67.71	
	5.0	2.49	36.35		10.0	5.48	69.31	
1600	1.0	0.15	27.48	0.132	2.0	0.33	58.86	0.294
	2.0	0.50	35.76		4.0	1.10	74.04	
	3.0	1.02	39.76		6.0	2.24	80.92	
	4.0	1.68	42.13		8.0	3.71	84.89	
	5.0	2.49	43.72		10.0	5.48	87.48	
2400	1.0	0.15	29.88	0.279	2.0	0.33	65.67	0.633
	2.0	0.50	40.12		4.0	1.10	85.65	
	3.0	1.02	45.28		6.0	2.24	95.17	
	4.0	1.68	48.41		8.0	3.71	100.78	
	5.0	2.49	50.53		10.0	5.48	104.50	
3100	1.0	0.15	31.31	0.425	2.0	0.33	69.67	0.954
	2.0	0.50	42.86		4.0	1.10	92.96	
	3.0	1.02	48.84		6.0	2.24	104.40	
	4.0	1.68	52.53		8.0	3.71	111.25	
	5.0	2.49	55.04		10.0	5.48	115.82	

COIL DATA - **AVW, ABW 16** — 18 x 24 Coil

	1-Row (2 Circuit)				2-Row (3 Circuit)			
CFM	GPM	Head Loss	MBH	Coil APD	GPM	Head Loss	MBH	Coil APD
780	1.0	0.17	24.68	0.021	2.0	0.38	48.61	0.053
	2.0	0.57	30.59		4.0	1.27	57.55	
	3.0	1.17	33.23		6.0	2.58	61.26	
	4.0	1.93	34.74		8.0	4.26	63.31	
	5.0	2.85	35.72		10.0	6.30	64.61	
1600	1.0	0.17	29.72	0.065	2.0	0.38	63.01	0.187
	2.0	0.57	39.11		4.0	1.27	79.92	
	3.0	1.17	43.65		6.0	2.58	87.59	
	4.0	1.93	46.35		8.0	4.26	92.00	
	5.0	2.85	48.14		10.0	6.30	94.87	
2400	1.0	0.17	32.27	0.135	2.0	0.38	70.33	0.420
	2.0	0.57	43.91		4.0	1.27	92.79	
	3.0	1.17	49.80		6.0	2.58	103.51	
	4.0	1.93	53.38		8.0	4.26	109.83	
	5.0	2.85	55.80		10.0	6.30	114.01	
3600	1.0	0.17	34.59	0.264	2.0	0.38	76.91	0.828
	2.0	0.57	48.63		4.0	1.27	105.46	
	3.0	1.17	56.07		6.0	2.58	119.83	
	4.0	1.93	60.71		8.0	4.26	128.51	
	5.0	2.85	63.88		10.0	6.30	134.35	
4200	1.0	0.17	35.42	0.346	2.0	0.38	79.21	1.068
	2.0	0.57	50.40		4.0	1.27	110.19	
	3.0	1.17	58.48		6.0	2.58	126.09	
	4.0	1.93	63.56		8.0	4.26	135.79	
	5.0	2.85	67.06		10.0	6.30	142.36	

COIL DATA - **AVW 18, ABW 18** — 17-1/2 x 32 Coil

	1-Row (2 Circuit)				2-Row (3 Circuit)			
CFM	GPM	Head Loss	MBH	Coil APD	GPM	Head Loss	MBH	Coil APD
1100	1.5	0.44	35.90	0.027	2.0	0.47	61.04	0.051
	2.0	0.72	39.40		4.0	1.59	75.40	
	3.0	1.47	43.60		6.0	3.24	81.59	
	4.0	2.43	46.05		8.0	5.36	85.06	
	5.0	3.59	47.65		10.0	7.92	87.28	
2300	1.5	0.44	43.95	0.096	2.0	0.47	76.60	0.185
	2.0	0.72	49.54		4.0	1.59	102.63	
	3.0	1.47	56.62		6.0	3.24	115.08	
	4.0	2.43	60.93		8.0	5.36	122.40	
	5.0	3.59	63.83		10.0	7.92	127.23	
3600	1.5	0.44	48.40	0.208	2.0	0.47	84.42	0.390
	2.0	0.72	55.45		4.0	1.59	118.70	
	3.0	1.47	64.67		6.0	3.24	136.19	
	4.0	2.43	70.45		8.0	5.36	146.80	
	5.0	3.59	74.41		10.0	7.92	153.94	
4500	1.5	0.44	50.47	0.303	2.0	0.47	87.82	0.555
	2.0	0.72	58.28		4.0	1.59	126.39	
	3.0	1.47	68.67		6.0	3.24	146.71	
	4.0	2.43	75.28		8.0	5.63	159.24	
	5.0	3.59	79.86		10.0	7.92	167.75	
5500	1.5	0.44	52.26	0.406	2.0	0.47	90.62	0.759
	2.0	0.72	60.77		4.0	1.59	133.10	
	3.0	1.47	72.26		6.0	3.24	156.12	
	4.0	2.43	79.67		8.0	5.36	170.52	
	5.0	3.59	84.85		10.0	7.92	180.40	

COIL DATA - **AVW 24, ABW 24** — 17-1/2 x 32 Coil

	1-Row (2 Circuit)				2-Row (3 Circuit)			
CFM	GPM	Head Loss	MBH	Coil APD	GPM	Head Loss	MBH	Coil APD
1480	1.5	0.44	39.23	0.045	2.0	0.47	67.66	0.086
	2.0	0.72	43.52		4.0	1.59	86.35	
	3.0	1.47	48.78		6.0	3.24	94.75	
	4.0	2.43	51.89		8.0	5.36	99.54	
	5.0	3.59	53.96		10.0	7.92	102.64	
3200	1.5	0.44	47.26	0.130	2.0	0.47	82.49	0.299
	2.0	0.72	53.92		4.0	1.59	114.55	
	3.0	1.47	62.55		6.0	3.24	130.63	
	4.0	2.43	67.92		8.0	5.36	140.30	
	5.0	3.59	71.58		10.0	7.92	146.78	
4800	1.5	0.44	51.06	0.245	2.0	0.47	88.75	0.540
	2.0	0.72	59.09		4.0	1.59	128.57	
	3.0	1.47	69.83		6.0	3.24	149.74	
	4.0	2.43	76.69		8.0	5.36	162.86	
	5.0	3.59	81.46		10.0	7.92	171.80	
6000	1.5	0.44	53.00	0.342	2.0	0.47	91.75	0.740
	2.0	0.72	61.82		4.0	1.59	135.93	
	3.0	1.47	73.81		6.0	3.24	160.17	
	4.0	2.43	81.58		8.0	5.63	175.44	
	5.0	3.59	87.04		10.0	7.92	185.95	
7300	1.5	0.44	54.63	0.516	2.0	0.47	94.15	1.098
	2.0	0.72	64.15		4.0	1.59	142.15	
	3.0	1.47	77.28		6.0	3.24	169.22	
	4.0	2.43	85.91		8.0	5.36	186.53	
	5.0	3.59	92.02		10.0	7.92	198.56	

GPM above or below catalog values not recommended

Data Based on 180°F EWT and 55°F EAT