

FDC

Series Flow Fan Powered Terminal Unit

PERFORMANCE DATA

FDC - 1 and 2 Row Hot Water Coil Data

Size 10 Standard Capacity

Rows	Coil gpm	HD Loss	Airflow Rate (cfm)						
			250	350	450	550	650	750	850
1 Row Multi Circuit	0.5	0.21	7.30	8.20	8.70	9.20	9.60	9.80	10.10
	1	0.73	9.20	10.70	11.60	12.50	13.10	13.70	14.20
	2	2.53	10.70	12.60	14.10	15.30	16.30	17.10	17.90
	3	5.25	11.20	13.30	15.00	16.40	17.50	18.50	19.60
	Through the Coil, ΔPs			0.04	0.07	0.10	0.14	0.18	0.23
2 Row Multi Circuit	0.5	0.05	11.90	13.30	14.10	14.80	15.30	15.70	
	1	0.17	15.40	17.70	19.50	20.80	21.90	22.80	
	2	0.60	18.10	21.70	24.40	26.60	28.40	30.00	
	3	1.25	19.20	23.30	26.60	29.30	31.60	33.50	
	Through the Coil, ΔPs			0.08	0.15	0.22	0.31	0.41	0.51

Size 10 High Capacity

Rows	Coil gpm	HD Loss	Airflow Rate (cfm)						
			250	350	450	550	650	750	850
1 Row Multi Circuit	0.5	0.29	8.90	9.90	10.50	11.00	11.50	11.70	12.10
	1	0.99	11.80	13.50	14.80	15.90	16.80	17.30	17.90
	2	3.43	14.10	16.60	18.70	20.30	21.70	22.90	24.00
	3	7.12	15.00	17.90	20.30	22.30	24.00	25.40	26.60
	Through the Coil, ΔPs			0.03	0.05	0.07	0.10	0.13	0.16
2 Row Multi Circuit	0.5	0.07	13.90	15.40	16.40	17.10	17.70	18.10	
	1	0.22	18.50	21.50	23.70	25.40	26.70	27.70	
	2	0.76	22.20	27.00	30.70	33.70	36.10	38.30	
	3	1.58	23.70	29.30	33.90	37.70	40.80	43.50	
	Through the Coil, ΔPs			0.06	0.11	0.16	0.22	0.29	0.36

Size 20 Standard Capacity

Rows	Coil gpm	HD Loss	Airflow Rate (cfm)						
			450	550	650	750	850	950	1050
1 Row Multi Circuit	0.5	0.04	10.30	10.80	11.30	11.60	11.80	12.00	12.30
	1	0.15	14.30	15.30	16.30	16.90	17.40	17.90	18.50
	2	0.50	18.10	19.80	21.20	22.50	23.40	24.50	25.20
	3	1.05	19.80	21.90	23.60	25.20	26.60	27.70	28.70
	Through the Coil, ΔPs			0.03	0.05	0.06	0.08	0.09	0.11
2 Row Multi Circuit	0.5	0.08	16.60	17.50	18.00	18.50	19.00	19.20	19.50
	1	0.27	23.90	25.70	27.10	28.30	29.30	30.10	30.90
	2	0.94	30.60	33.80	36.50	38.70	40.70	42.30	43.80
	3	1.95	33.70	37.60	41.10	44.00	46.50	48.70	50.80
	Through the Coil, ΔPs			0.07	0.10	0.13	0.17	0.21	0.25

For performance notes, see end of section.

PERFORMANCE DATA

FDC - 1 and 2 Row Hot Water Coil Data

Size 20 High Capacity

Rows	Coil gpm	HD Loss	Airflow Rate (cfm)						
			450	550	650	750	850	950	1050
1 Row Multi Circuit	0.5	0.46	12.20	12.80	13.20	13.60	14.00	14.10	14.30
	1	1.59	18.00	19.30	20.30	21.20	21.90	22.50	23.00
	2	5.50	23.60	25.80	27.60	29.20	30.60	31.90	33.00
	3	11.42	26.20	29.00	31.30	33.40	35.20	36.90	38.40
	Through the Coil, ΔPs			0.02	0.03	0.04	0.05	0.07	0.08
2 Row Multi Circuit	0.5	0.10	18.60	19.40	20.00	20.50	20.80	21.10	21.40
	1	0.34	27.90	29.90	31.50	32.70	33.80	34.70	35.50
	2	1.17	36.80	40.80	44.10	46.80	49.20	51.20	53.10
	3	2.42	41.00	46.00	50.40	54.20	57.50	60.50	63.10
	Through the Coil, ΔPs			0.05	0.07	0.10	0.12	0.15	0.18

Size 30 Standard Capacity

Rows	Coil gpm	HD Loss	Airflow Rate (cfm)						
			850	950	1050	1150	1250	1350	1450
1 Row Multi Circuit	1	0.15	17.40	17.90	18.50	18.80	19.10	19.60	19.80
	2	0.50	23.40	24.50	25.20	25.90	26.60	27.20	27.80
	4	1.76	28.30	29.60	30.90	32.00	33.00	34.00	34.90
	6	3.69	30.20	31.70	33.10	34.50	35.70	36.80	38.00
	Through the Coil, ΔPs			0.09	0.11	0.13	0.15	0.18	0.20
2 Row Multi Circuit	1	0.27	29.30	30.10	30.90	31.40	32.00	32.50	
	2	0.94	40.70	42.30	43.80	45.20	46.40	47.50	
	4	3.27	49.90	52.70	55.00	57.20	59.20	61.10	
	6	6.82	53.70	56.80	59.60	62.30	64.70	67.00	
	Through the Coil, ΔPs			0.21	0.25	0.30	0.35	0.40	0.45

Size 30 High Capacity

Rows	Coil gpm	HD Loss	Airflow Rate (cfm)						
			850	950	1050	1150	1250	1350	1450
1 Row Multi Circuit	0.5	0.46	14.00	14.10	14.30	14.50	14.70	14.90	14.90
	1	1.59	21.90	22.50	23.00	23.60	23.90	24.40	24.70
	2	5.50	30.60	31.90	33.00	34.00	34.90	35.80	36.40
	3	11.42	35.20	36.90	38.40	39.70	40.90	42.00	43.00
	Through the Coil, ΔPs			0.07	0.08	0.09	0.11	0.13	0.14
2 Row Multi Circuit	1	0.34	33.80	34.70	35.50	36.20	36.70	37.20	
	2	1.17	49.20	51.20	53.10	54.70	56.10	57.50	
	4	4.07	62.60	66.20	69.50	72.50	75.10	77.60	
	6	8.48	68.40	72.70	76.70	80.50	83.80	87.00	
	Through the Coil, ΔPs			0.15	0.18	0.22	0.25	0.29	0.32

For performance notes, see end of section.

PERFORMANCE DATA

FDC - 1 and 2 Row Hot Water Coil Data

Size 40 Standard Capacity

Rows	Coil gpm	HD Loss	Airflow Rate (cfm)							
			1150	1250	1350	1450	1550	1650	1750	1850
1 Row Multi Circuit	1	0.15	18.80	19.10	19.60	19.80	20.00	20.30	20.60	20.80
	2	0.50	25.90	26.60	27.20	27.80	28.40	28.90	29.30	29.80
	4	1.76	32.00	33.00	34.00	34.90	35.80	36.60	37.30	38.10
	6	3.69	34.50	35.70	36.80	38.00	38.90	39.80	40.70	41.70
	Through the Coil, ΔPs			0.15	0.18	0.20	0.23	0.25	0.28	0.31
2 Row Multi Circuit	1	0.27	31.40	32.00	32.50	33.00	33.40	33.80		
	2	0.94	45.20	46.40	47.50	48.50	49.50	50.30		
	4	3.27	57.20	59.20	61.10	62.90	64.50	66.00		
	6	6.82	62.30	64.70	67.00	69.10	71.10	73.00		
	Through the Coil, ΔPs			0.35	0.40	0.45	0.51	0.56	0.63	

Size 40 High Capacity

Rows	Coil gpm	HD Loss	Airflow Rate (cfm)							
			1150	1250	1350	1450	1550	1650	1750	1850
1 Row Multi Circuit	0.5	0.46	14.50	14.70	14.90	14.90	15.10	15.30	15.30	15.30
	1	1.59	23.60	23.90	24.40	24.70	24.90	25.30	25.60	25.70
	2	5.50	34.00	34.90	35.80	36.40	37.00	37.80	38.30	38.80
	3	11.42	39.70	40.90	42.00	43.00	44.00	44.80	45.70	46.40
	Through the Coil, ΔPs			0.11	0.13	0.14	0.16	0.18	0.20	0.22
2 Row Multi Circuit	1	0.34	36.20	36.70	37.20	37.60	38.10	38.50		
	2	1.17	54.70	56.10	57.50	58.50	59.60	60.50		
	4	4.07	72.50	75.10	77.60	79.80	81.90	83.80		
	6	8.48	80.50	83.80	87.00	89.80	92.50	95.10		
	Through the Coil, ΔPs			0.25	0.29	0.32	0.36	0.41	0.45	

Size 50 Standard Capacity

Rows	Coil gpm	HD Loss	Airflow Rate (cfm)							
			1550	1650	1750	1850	1950	2050	2150	2250
1 Row Multi Circuit	1	0.18	22.70	22.80	23.20	23.30	23.50	23.80	23.90	24.20
	2	0.62	32.90	33.50	34.20	34.60	35.00	35.50	35.90	36.30
	4	2.16	42.70	43.70	44.60	45.50	46.30	47.10	47.90	48.70
	6	4.52	47.10	48.30	49.50	50.60	51.60	52.50	53.60	54.40
	Through the Coil, ΔPs			0.14	0.15	0.17	0.19	0.20	0.22	0.24
2 Row Multi Circuit	1.5	0.25	46.30	46.90	47.50	48.20	48.60	49.00	49.50	
	3	0.87	66.00	67.40	68.70	69.90	71.00	72.10	73.20	
	6	3.03	82.90	85.30	87.40	89.50	91.40	93.30	95.10	
	9	6.33	90.00	92.70	95.30	97.80	100.20	102.40	104.60	
	Through the Coil, ΔPs			0.31	0.35	0.38	0.42	0.46	0.50	0.54

For performance notes, see end of section.

PERFORMANCE DATA

FDC - 1 and 2 Row Hot Water Coil Data

Size 50 High Capacity

Rows	Coil gpm	HD Loss	Airflow Rate (cfm)							
			1550	1650	1750	1850	1950	2050	2150	2250
1 Row Multi Circuit	1	0.20	26.20	26.50	26.80	27.00	27.20	27.40	27.60	27.80
	2	0.70	40.60	41.40	41.90	42.50	43.00	43.50	43.90	44.40
	4	2.46	55.90	57.20	58.30	59.40	60.50	61.40	62.40	63.20
	6	5.13	63.50	65.20	66.70	68.10	69.50	70.80	72.10	73.20
	Through the Coil, ΔPs			0.11	0.12	0.14	0.15	0.16	0.18	0.19
2 Row Multi Circuit	1.5	0.29	53.20	53.90	54.50	55.20	55.60	56.00	56.50	
	3	0.98	79.90	81.60	83.20	84.50	85.80	87.00	88.20	
	6	3.43	104.90	108.00	110.90	113.50	116.10	118.40	120.80	
	9	7.14	115.90	119.80	123.50	126.80	130.00	133.20	136.00	
	Through the Coil, ΔPs			0.25	0.28	0.31	0.34	0.37	0.40	0.43

Size 60 Standard Capacity

Rows	Coil gpm	HD Loss	Airflow Rate (cfm)							
			2450	2550	2650	2750	2850	2950	3050	3150
1 Row Multi Circuit	1	0.23	28.80	29.00	29.20	29.20	29.40	29.60	29.60	29.70
	2	0.81	46.40	46.80	47.20	47.60	48.00	48.40	48.60	49.00
	4	2.82	67.00	67.70	68.50	69.40	70.10	70.70	71.50	72.10
	6	5.89	78.00	79.20	80.30	81.40	82.30	83.30	84.20	85.10
	Through the Coil, ΔPs			0.11	0.12	0.12	0.13	0.14	0.15	0.16
2 Row Multi Circuit	1.5	0.33	59.00	59.50	59.70	60.00	60.40	60.60	60.90	61.10
	3	1.12	93.60	94.60	95.50	96.40	97.20	98.00	98.90	99.50
	6	3.91	130.30	132.30	134.30	136.10	137.90	139.60	141.40	142.90
	9	8.16	148.30	150.90	153.50	156.00	158.40	160.80	163.00	165.20
	Through the Coil, ΔPs			0.24	0.26	0.28	0.29	0.31	0.33	0.35

Size 60 High Capacity

Rows	Coil gpm	HD Loss	Airflow Rate (cfm)							
			2450	2550	2650	2750	2850	2950	3050	3150
1 Row Multi Circuit	1	0.23	29.90	30.00	30.20	30.30	30.50	30.50	30.60	30.70
	2	0.81	49.50	49.80	50.10	50.50	50.90	51.10	51.40	51.80
	4	2.82	73.30	74.00	74.90	75.60	76.30	77.10	77.70	78.40
	6	5.89	86.60	87.80	89.00	90.10	91.10	92.20	93.10	94.10
	Through the Coil, ΔPs			0.14	0.15	0.16	0.17	0.18	0.19	0.20
2 Row Multi Circuit	1.5	0.33	61.10	61.40	61.80	62.10	62.30	62.50	62.90	63.00
	3	1.12	99.10	100.00	100.90	101.80	102.70	103.50	104.10	104.80
	6	3.91	141.30	143.40	145.40	147.30	149.20	151.00	152.70	154.30
	9	8.16	162.60	165.40	168.20	170.90	173.50	176.00	178.40	180.70
	Through the Coil, ΔPs			0.32	0.34	0.36	0.38	0.41	0.43	0.45

Performance Notes:

1. Tabulated values are in MBH (thousands of Btu per hour).
2. Minimum air and water flow values are based on ASHRAE recommendations for coil selections. For selections below these tabulated air or water values, please consult your local Price representative.
3. HD (Head) loss is in ft. of water.
4. Through the Coil ΔPs, is the pressure drop in in. of water across the coil.
5. Air temperature rise = ATR
ATR (°F) = 927 x MBH/cfm
6. Water temperature drop = WTD
WTD (°F) = 2.04 x MBH/gpm
7. Values in tables are listed for 0 ft. of altitude and no glycol in the system.
8. For information outside the ranges used in the table, consult the current Price software or your Price representative for accurate coil information.
9. Cooling coils used in this unit have performance rated and certified in accordance with the current edition of AHRI Standard 410.
10. Connections: Single Circuit – 1/2 in. OD male solder Multi Circuit – 7/8 in. OD male solder.