

## Daikin® Model THC Ceiling Concealed Fan Coil

Daikin fan coil units have earned a reputation for quality - providing years of efficient, reliable, quiet heating and cooling. Units are easy to install and maintain, and have been widely applied in hotels, apartments, dormitories and military barracks, assisted living facilities and offices.

The Model THC horizontal concealed fan coil unit is a compact, lightweight unit that is ideal for installation in ceilings where space is limited. Units are available in seven sizes from 200 to 1,200 cfm.

### Features And Benefits

#### Conserves space

- Compact, lightweight design and ultra-slim profile make unit ideal for inside ceiling installations where space is limited.

#### Low operating costs

- Unique coil design promotes good air mixing, resulting in high thermal efficiency.

#### Operates quietly

- High efficiency centrifugal fan assembly minimizes vibration and noise.

#### Promotes good indoor air quality

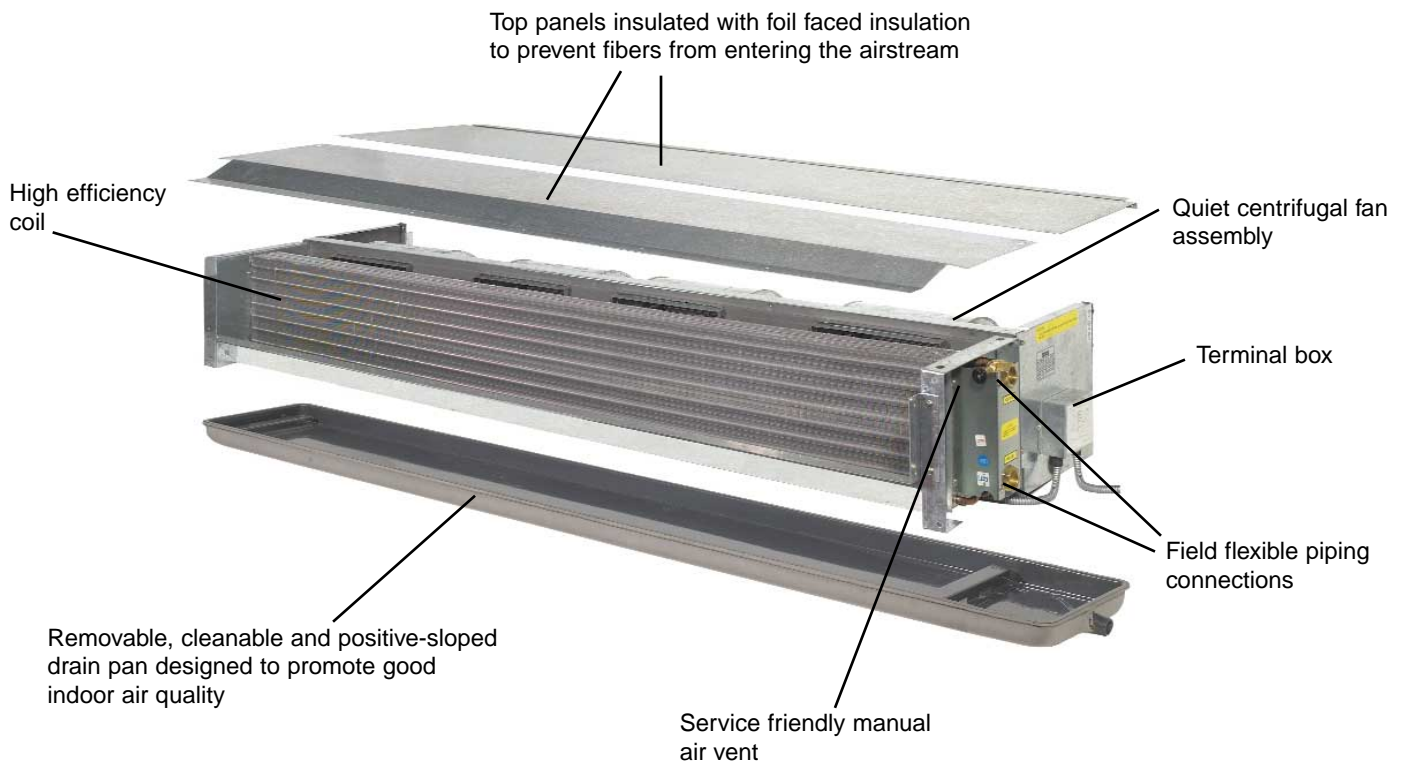
- Extended, positive-sloped drain pan effectively removes condensation.
- Drain pan is removable and coated with epoxy finish for easy cleaning to help prevent microbial growth.
- Form-fitted closed cell insulation prevents condensation build-up on outside of drain pan.
- Cabinet insulation is foil faced to prevent fibers from entering the air stream.

#### Field flexible for easy, low-cost installation

- Standard rear return air plenum is easily converted to bottom return without using a conversion kit.
- Units easily converted to opposite-hand piping connection without additional parts or a conversion kit. Units may be ordered with left-hand or right-hand piping connections.
- Standard 3/4" threaded connection is easily converted to sweat connection using adapter shipped with each unit.

#### Service-friendly design

- Manual air vent valve is conveniently located over the drain pan and does not require any tools to vent the coil.



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## Performance Data

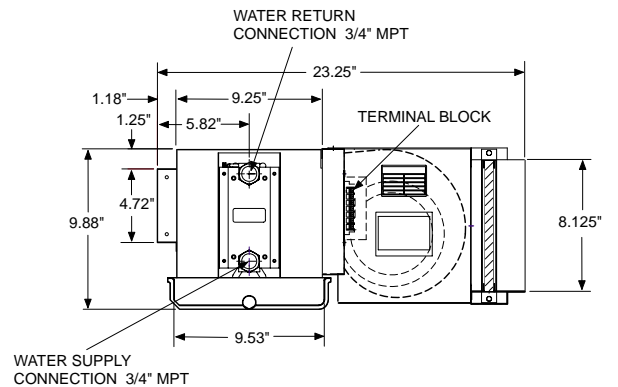
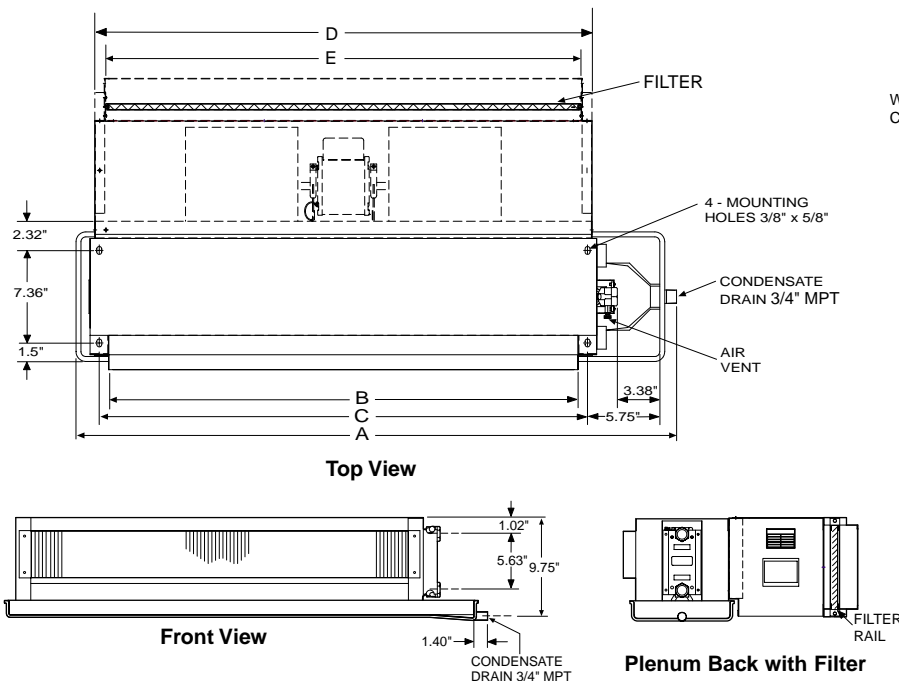
Model	THCH02		THCH03		THCH04		THCH06		THCH08		THCH10		THCH12		
System	2-Pipe	4-Pipe	2-Pipe	4-Pipe	2-Pipe	4-Pipe	2-Pipe	4-Pipe	2-Pipe	4-Pipe	2-Pipe	4-Pipe	2-Pipe	4-Pipe	
Nominal Air Flow (cfm)	200		300		400		600		800		1000		1200		
ARI Total Cooling Capacity (Btuh)	8,500		11,100		14,500		21,200		22,700		25,300		34,200		
ARI Sensible Cooling Capacity (Btuh)	6,100		8,400		10,800		16,100		18,000		20,000		27,000		
ARI Sensible Heating Capacity (Btuh)	14,900	11,500	20,300	16,300	26,800	20,400	37,600	29,600	42,400	36,100	48,300	40,300	68,800	49,800	
Water Flow - 3-Row (gpm)	1.94		2.51		3.26		4.70		5.14		5.70		7.75		
Water Flow - 1-Row (gpm)	n/a	0.64	n/a	0.91	n/a	1.12	n/a	1.65	n/a	2.00	n/a	2.24	n/a	2.76	
Water P.D. - 3-Row (ft.W.C.)	5.10		3.26		5.80		12.82		3.68		4.76		8.29		
Water P.D. - 1-Row (ft.W.C.)	n/a	1.47	n/a	2.89	n/a	5.32	n/a	10.72	n/a	3.24	n/a	4.07	n/a	6.45	
Fan(s)	Type	Centrifugal fan (forward curved galvanized steel fan wheel)													
	Number	1		1		2		2		3		3		4	
	Fan Housing	Galvanized steel													
Coil	Type	Water													
	Rows*	3-Row	3/1-Row	3-Row	3/1-Row	3-Row	3/1-Row	3-Row	3/1-Row	3-Row	3/1-Row	3-Row	3/1-Row	3-Row	3/1-Row
	Testing Pressure	425 psi for 1 minute; leak test: 225 psi for 5 minutes													
Motor(s)	Type	PSC													
	Number	1		1		1		1		2		2		2	
	Power Supply	115/60/1, 208-230/50-60/1, 277/60/1													
Watts - High Speed	50 Hz	62		91		109		171		242		249		321	
	60 Hz	75		109		131		205		291		299		385	
Coil Connection	3/4" FPT														
Drain Pipe	3/4" MPT														
Ship Weight (lbs.)**	61.00	63.00	69.00	73.00	83.00	88.00	97.00	102.00	127.00	134.00	137.00	143.00	146.00	153.00	

**Conditions:** **Cooling Capacity:** Entering air temperature 80°F (DB), 67°F (WB); Entering water temperature 45°F, Leaving Water Temperature 55°F.  
**Heating Capacity:** Entering air temperature 70°F (DB); Entering water temperature 140°F, the same amount of water flow as with cooling.  
**Nominal Air Flow:** Under dry coil conditions; Fan speed high.  
 \*3-Row = 3-row chilled water/hot water coil; 4-Row = 3-row chilled water, 1-row hot water coil.  
 \*\*Weight includes return air plenum and packing.

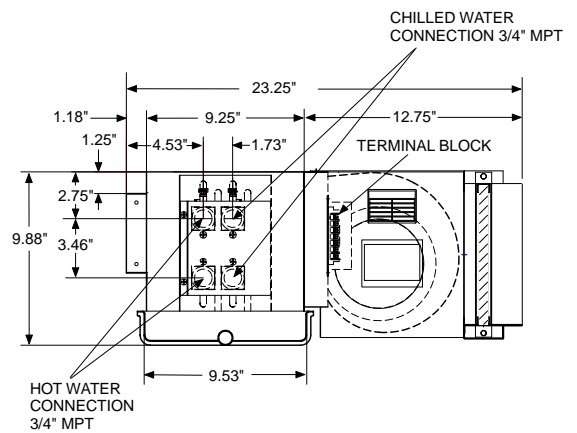
## Dimensional Data

Model	A	B	C	D	E	Filters	
						Size	Qty.
THCH02	32.05	17.64	19.17	19.96	18.46	18-1/8" x 8" x 1"	1
THCH03	38.74	24.33	25.87	26.65	25.15	24-7/8" x 8" x 1"	1
THCH04	43.86	29.45	30.98	31.77	30.20	29-7/8" x 8" x 1"	1
THCH06	51.73	37.32	38.86	39.65	38.07	18-7/8" x 8" x 1"	2
THCH08	61.57	47.17	48.70	49.49	47.91	23-3/4" x 8" x 1"	2
THCH10	65.51	51.10	52.64	53.43	51.85	25-3/4" x 8" x 1"	2
THCH12	75.75	61.34	62.87	63.66	62.09	30-7/8" x 8" x 1"	2

Dimensions based on unit with return air plenum and filter



2-Pipe System - Right-Hand Unit<sup>1</sup>



4-Pipe System - Right-Hand Unit<sup>1</sup>

<sup>1</sup>Factory supplied left-hand units also available.

