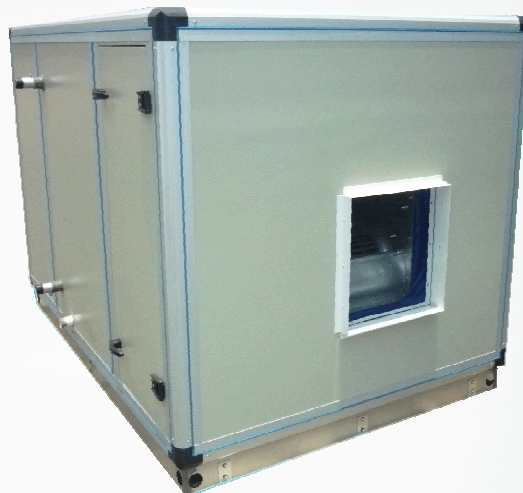


BELT DRIVEN HIGH STATIC DOUBLE SKIN
CHILLED WATER AIR HANDLING UNIT
AIR FLOW : 1,200 to 18,000 CFM (2,038 to 30,582 m³/h)



THCD Series



TAHU Series

FEATURES

General Description

The Topaire THCD and TAHU series of chilled water blowers are available in 14 standard sizes covering 1,200 cfm to 18,000 cfm. The nominal cooling capacities range from 40,000 Btu/hr to 735,000 Btu/hr.

Each unit has two sections combined together; the coil section which include chilled water coil and filters: the blower and drive package section which can either be horizontal or vertical supply air discharge.

Casing

THCD-Series:-

Constructed of heavy gauge steel sheet and casing panel are double-skin injected with 20mm (THCD 40P to THCD 80P) and 25mm (THCD 100P to THCD 250P) thick polyurethane foam insulation. The external skin is constructed from oven-baked epoxy painted steel sheet, while the internal liner is constructed from aluminium sheet. Removable access panels are provided on both sides for ease of installation and maintenance.

TAHU-Series:-

Casing framework is constructed from extruded aluminium structural section, bolted together by corner lugs to form a rigid framework. Casing panels are double-skin injected with 25mm thick polyurethane foam insulation. The external skin is constructed from oven-baked epoxy painted steel sheet, while the internal liner is constructed from aluminium sheet. Removable access panels are provided on both sides for ease of installation and maintenance.

Drain Pan

The drain pan is of galvanized steel construction, coated with oven-baked epoxy paint and externally insulated with 6mm thick fire-retardant PE foam. The drain pan is tilted towards the condensate outlet connection to ease condensate draining.



FEATURES

Blower Assembly

Blower wheels are of forward curved double inlet double width, centrifugal type and are constructed of zinc coated steel. All the blower wheels are statically and dynamically balanced in accordance with AMCA standard prior to and after assembly to assure quiet smooth performance well below the first critical speed at all design conditions. The wheel shafts are made from solid steel and are ground and polished to close tolerances.

Motor and Drive Package

The fan pulley, motor pulley and belt drive assembly are factory fitted, properly aligned and tested prior to shipment to ensure vibration-free and long life field operation. 3-phase TEFC motors are provided as standard. V-belt and pulley sizes are factory selected to meet various external static pressure and airflows.



Coils



All drainable chilled water coils are constructed from thick walled copper tubes, in staggered rows, mechanically expanded into die formed corrugated aluminium fins, spaced 14 fins per inch. Standard return air chilled water coils are offered in either 4 rows deep or 6 rows deep configuration. All drainable water coils are air-pressurized to minimum 360 psig and leak tested under water and are suitable for design working pressure up to 250 psig.

Filters

Standard flat filters are of 1" panel type, washable filters. The filters media is constructed of 75% arrestance efficiency synthetic fibre.

PERFORMANCE DATA

Model	Supply Air (cfm)	Coil	80°FDB / 67°F WB			
		Row	Capacity (MBH)		Flow Rate (Usgpm)	Pressure Drop (ft.wg)
			Total	Sensible		
THCD 40P	1,200	4	40.0	28.7	8.0	4.2
		6	50.0	34.2	10.0	9.3
THCD 50P	1,500	4	48.0	34.9	9.6	6.3
		6	58.0	39.7	11.6	4.3
THCD 60P	1,800	4	60.0	43.3	12.0	9.3
		6	73.0	49.7	14.6	6.5
THCD 80P	2,400	4	78.0	56.8	15.6	8.5
		6	95.0	67.2	19.0	5.9
THCD 100P	3,000	4	95.0	69.5	19.0	3.7
		6	125.0	87.4	25.0	8.9
THCD 125P	3,600	4	115.0	83.4	23.0	5.5
		6	140.0	98.6	28.0	11.7
THCD 150P	4,800	4	150.0	110.2	30.0	8.4
		6	185.0	131.5	37.0	5.9
THCD 200P	6,000	4	200.0	145.8	40.0	10.9
		6	245.0	172.3	49.0	7.6
THCD 250P	7,400	4	252.0	186.1	51.0	10.6
		6	312.0	218.2	62.5	7.4
TAHU 300P	9,000	4	300.0	220.0	60.0	11.6
		6	368.0	257.7	73.6	8.1
TAHU 350P	10,500	4	350.0	255.5	70.0	10.9
		6	433.0	306.2	86.8	7.8
TAHU 400P	12,000	4	400.0	288.3	80.0	11.1
		6	493.0	346.8	98.6	7.8
TAHU 500P	15,000	4	500.0	364.0	100.0	12.1
		6	610.0	428.6	122.0	8.4
TAHU 600P	18,000	4	600.0	441.5	120.0	11.6
		6	735.0	521.6	147.0	8.1

All specifications are subjected to change by manufacturer without prior notice.

1. Capacity Based On 44°F EWT, 54°F LWT

2. Entering air - 80°F / 67°F

PHYSICAL DATA

THCD Series

MODEL			THCD 40P	THCD 50P	THCD 60P	THCD 80P	THCD 100P
Power supply			380-415V / 3PH / 50HZ				
Blower type / Drive			Centrifugal / Belt driven				
Blower fan model / Size		in	AT 7/7	AT 9/7	AT 9/9	AT 10/10	AT 12/10
Fan	Air flow	CFM	1,200	1,500	1,800	2,400	3,000
	ESP	In WG	0.5	0.5	0.5	0.6	0.7
	Fan motor	HP	0.75	0.75	1	1.5	2.0
	Motor type		4-Poles TEFC Squirrel Cage				
Chilled water cooling coil	Tube OD	in	3/8				
	FPI		14				
	TH X FL	in x mm	18" x 500	18" x 600	18" x 600	18" x 950	20" x 1150
	Face area	ft ²	2.5	3.0	3.0	4.7	6.3
	Connection size	in	1	1	1	1 1/4	1 1/2
Drain pipe size		in	1				
Air filter	Size & Qty	in & nos	24 x 24 (1)	24 x 24 (1)	24 x 24 (1) 24 x 12 (1)	24 x 24 (1) 24 x 12 (1)	24 x 24 (2)
Dimension	Height	mm	670	670	670	670	700
	Width	mm	750	850	1,000	1,200	1,400
	Depth	mm	900	950	950	1,050	1,150

MODEL			THCD 125P	THCD 150P	THCD 200P	THCD 250P
Power supply			380-415V / 3PH / 50HZ			
Blower type / Drive			Centrifugal / Belt driven			
Blower fan model / Size		in	AT 12/12	AT 15/11	AT 18/13	AT 18/18
Fan	Air flow	CFM	3,600	4,800	6,000	7,400
	ESP	In WG	0.8	1.0	1.2	1.2
	Fan motor	HP	3.0	3.0	4.0	5.5
	Motor type		4-Poles TEFC Squirrel Cage			
Chilled water cooling coil	Tube OD	in	3/8			
	FPI		14			
	TH X FL	in x mm	20" x 1300	22" x 1550	26" x 1650	34" x 1700
	Face area	ft ²	7.1	9.3	11.7	15.8
	Connection size	in	1 1/2	1 1/2	1 1/2	2
Drain pipe size		in	1	1	1	1 1/4
Air filter	Size & Qty	in & nos	24 x 24 (2)	24 x 24 (2) 24 x 12 (1)	24 x 24 (3)	24 x 24 (3) 24 x 12 (3)
Dimension	Height	mm	700	750	850	1,050
	Width	mm	1,550	1,800	1,900	1,950
	Depth	mm	1,150	1,150	1,300	1,450

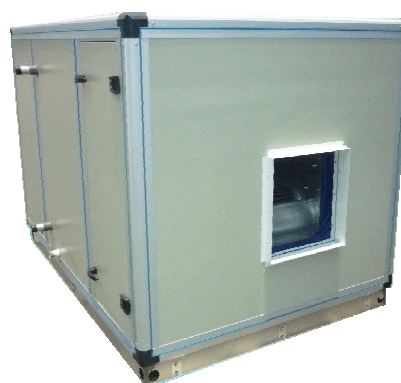
PHYSICAL DATA

TAHU Series

MODEL			TAHU 300P	TAHU 350P	TAHU 400P	TAHU 500P	TAHU 600P
Power supply			380-415V / 3PH / 50HZ				
Blower type / Drive			Centrifugal / Belt driven				
Blower fan model / Size		in	AT 12/12	AT 15/11	AT 18/13	AT 18/18	AT 18/18
Fan	Air flow	CFM	9,000	10,500	12,000	15,000	18,000
	ESP	In WG	1.4	1.4	1.4	1.4	1.8
	Fan motor	HP	7.5	10.0	10.0	15	20
	Motor type		4-Poles TEFC Squirrel Cage				
Chilled water cooling coil	Tube OD	in	3/8				
	FPI		14				
	TH X FL	mm	38" x 1700	46" x 1700	52" x 1700	62" x 1700	76" x 1700
	Face area	ft²	17.7	21.4	24.2	28.8	35.3
	Connection size	in	2 1/2	2 1/2	3	3	3
Drain pipe size		in	1 1/4	1 1/4	1 1/4	1 1/2	1 1/2
Air filter	Size & Qty	in & nos	24 x 24 (3) 24 x 12 (3)	24 x 24 (6)	24 x 24 (6)	24 x 24 (6) 24 x 12 (3)	24 x 24 (6) 24 x 12 (3)
Dimension	Height	mm	1,200	1,400	1,550	1,800	2,150
	Width	mm	1,950	1,950	1,950	1,950	1,950
	Depth	mm	1,583	1,682	1,682	1,682	1,982



THCD Series
(1,200-7,400 cfm)



TAHU Series
(9,000-18,000 cfm)



Head Office

TOPAIRE SALES & SERVICES SDN BHD (274725-W)

No.A7-2-2, Block A, Megan Salak Park, Jalan 2/125E,
Taman Desa Petaling, 57100 Kuala Lumpur.

Tel : +603-90563228 (Hunting line)
Fax : +603-90562800
Email : sales@topaire.com.my

Branches

Penang

No 4, Lengkok Kikik 2, Taman Inderawasih, 13600 Prai, Pulau Pinang.
Tel: +604-339 2050 Fax: +604-398 2050

Johor Bahru

No. 62, Jalan Permas Jaya 9/13, Bandar Baru Permas Jaya, 81750 Johor Bahru, Johor.
Tel: +607-388 4600 Fax: +607-388 4602

Kota Bharu

Lot 1848, Jalan Hospital, Kg. Cherang, Taman Kenangan, 15200 Kota Bharu, Kelantan.
Tel: +609-748 9295 Fax: +609-748 9297

Sabah

Lot 2, (DBKK No.69), Lorong Inanam 5 3/4 Miles, Tuaran Road, 88450 Kota Kinabalu, Sabah.
Tel: +6088-388 339 Fax: +6088-389 339

