

FOOD GRADE AIR-CONDITIONER

AHRI CERTIFIED®
www.ahridirectory.org

Air-Cooling and Air-Heating Coils
AHRI Standard 410

STAINLESS STEEL CASING

EASY FOR CLEANING AND MAINTENANCE.



MODEL UCS_WH

HYDRONIC FANCOIL UNIT

2-20 TR | 7-70 KW

- ▶ Casing grade 304 Stainless steel
- ▶ Screw, fan blade and fan guard are made from stainless steel.
- ▶ Easy for cleaning and maintenance.
- ▶ Perfect for hygienic food industry or high dusty environment which is the main cause of blockage in coil.

STANDARD ACCESSORIES

FAN UNIT

- 4 adjustable speed level
- Low energy consumed with high efficiency
- Screw, fan blade and fan guard are made from stainless steel.

CASING

- Casing grade 304 Stainless steel
- Casing can be opened from 3 sides (front, left and right)
Convenient for coil cleaning



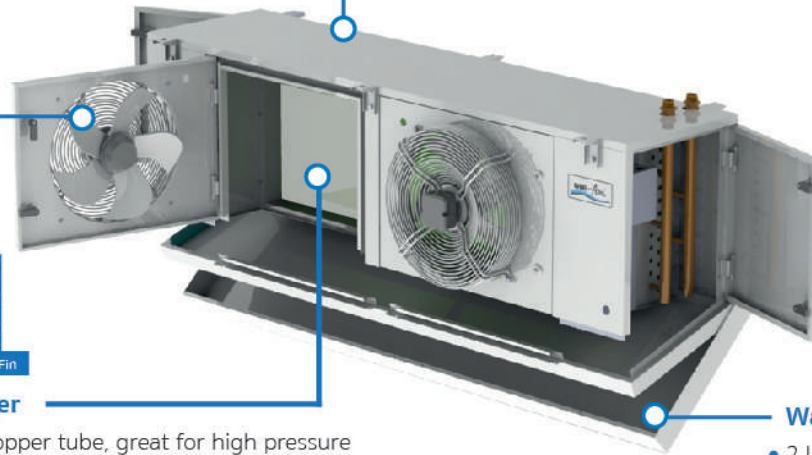
Corrugated Aluminium Fin

Heat exchanger

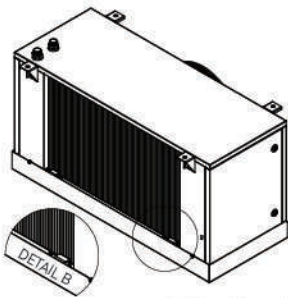
- High quality copper tube, great for high pressure
- Wide 8 Fins Per Inch (FPI). Easy to clean
- Uninhabitable for germ and bacteria by wide gap fin arrangement

Water tray

- 2 layers of water trays with 10 mm insulation as double protection for condensation

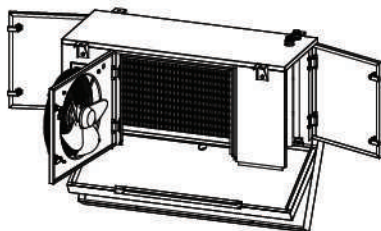
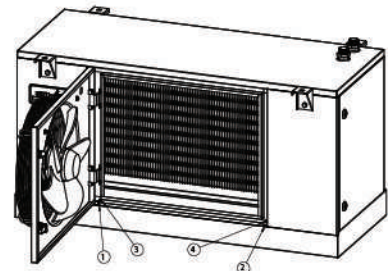


Cleaning Instruction



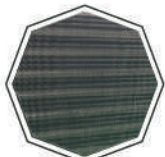
1. Remove water tray screws from the back of the fan coil unit

2. Use key to unlock the front cover
3. Remove screw no. 1 and no.2 to remove outer water tray
4. Remove screw no. 3 and no.4 to remove inner water tray



5. Use key to unlock the both side covers
6. In case of removing the water tray from the unit, remove the latch behind the unit and remove the water tray
7. Use only clean water to clean fan coil unit carefully
8. Assemble all parts backwardly and tight all screws

Choose a cold water coil to suit your application.



Aluminium Fin (standard)
provides good cooling efficiency



Green Guard Fin (Made to order)
corrosion prevention caused by ocean vapor and chemicals which extends coil life span.

**Consulting Uni-Aire's sales engineer for possibility for each location is recommended.*



Copper fin condenser coil (Made to order)
Fin made from copper, extends life span of condenser coil. Suitable for seaside area and high acidic factory environment.

**Consulting Uni-Aire's sales engineer for possibility for each location is recommended.*

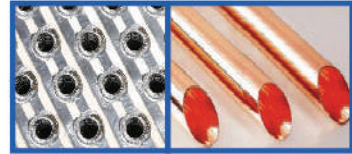
Durability test report under ASTM B 117



Cooling Coil (Chilled Water)

- **AHRI Certified Coils**

AHRI Certified is the trusted mark of performance for heating, air conditioning, water heating, and commercial refrigeration equipment. Products earning the mark are subject to rigorous, independent, annual evaluation to ensure that they perform according to the participant's published claims. Certifying equipment and component performance allows consumers to compare products based on independently verified performance ratings. To find AHRI Certified products, go to www.ahridirectory.org.



- **Constructed of copper tube with corrugated aluminium fin**
- **High heat transfer surface**
- **Leak tested at 250 psig**

Thermostat



options

Digital wired thermostat

Modern-designed, easy-to-use digital wired thermostat with LCD display. Can be used as a control signal receiver from wireless remote controller

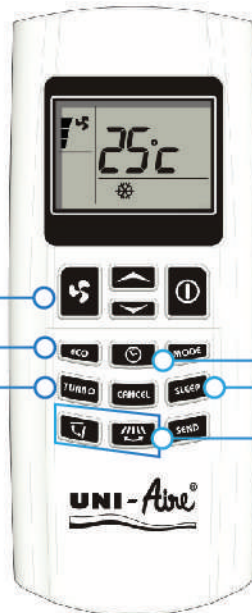
options

Wireless digital thermostat

4 Speed Motor
4 speeds adjustable wind blow Turbo-High-Medium-Low For Turbo cool or Quiet cool.

ECO Mode
Power saving by automatically setting temperature at 25 °C

Turbo Fan
Powerful turbo motor delivers coolness to the room quickly yet quietly.



Timer On / Off
24-hour timer for turning on or turning off the air conditioning system

Sleep Mode
Adjust suitable temperature for sleeping time

4 Directional airflow
Manually adjustable air vent in 4 directions left - right & upper - lower (Can not be used)

options

Wired digital remote controller WIFI

With WIFI controller, multiple units in a same or different area can be operated from anywhere through internet connection



Residence



Hotel



Office



Other places



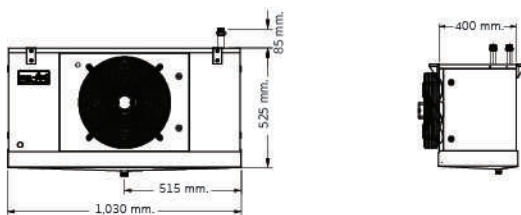
PHYSICAL DATA & ELECTRICAL DATA

Model		UCS-024WH	UCS-036WH	UCS-048WH	UCS-060WH	UCS-084WH	UCS-096WH	UCS-120WH	UCS-150WH	UCS-180WH	UCS-240WH
Casing Material		Stainless (Grade 304)									
Nominal Cooling Capacity*	BTU/Hr	24,000	36,000	48,000	60,000	84,000	96,000	120,000	150,000	180,000	240,000
Power Consumption	Watt	138		276		500		750		1,000	
Air Flow Rate	CFM	1,300		2,600		4,600		6,900		9,200	
Water Flow Rate**	GPM	4.80	7.20	9.60	12.00	16.80	19.20	24.00	30.00	36.00	48.00
Water Pressure Drop	Ft.Wg	5.03	7.59	9.63	12.26	17.01	21.83	24.51	30.20	36.56	50.05
Cooling Coil	Type	Corrugated Aluminium Fin with Plain Copper Tube									
	Tube Size	Inch 1/2									
Fan Set	Fan Type	Aluminium Propeller									
	Fan Motor Type	Direct Drive									
	Quantity	Set	1	2				3		4	
	Power Supply	V/Ph/Hz	220/1/50								
Pipe Connection	Water In	Inch (BSP)	1	1-1/4		1-1/2		2			
	Water Out	Inch (BSP)	1	1-1/4		1-1/2		2			
	Drain	Inch	3/4				1				
Dimension	Height	mm.	525				650				
	Width	mm.	1,030	1,655		1,995		2,660		3,385	
	Depth	mm.	400				500				
Weight	Kgs.	46	51	76	80	130	137	143	186	195	251

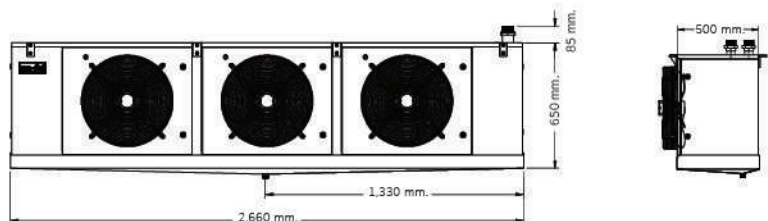
*Nominal capacity based on : Entering Air temp. 80° Fdb / 67°Fwb

**Chilled water temp inlet/outlet 45/55°F

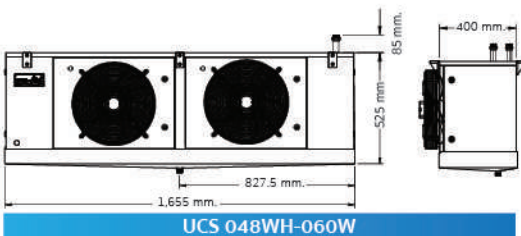
DIMENSIONAL DRAWINGS



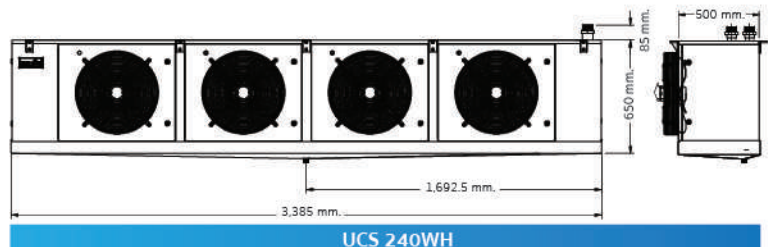
UCS 024WH-036WH



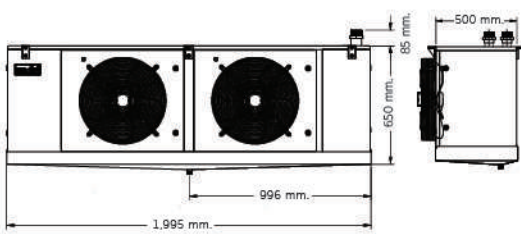
UCS 150WH-180WH



UCS 048WH-060WH




UCS 240WH




UCS 084WH-120WH

Model	Entering	Entering Air Temp.(°F db/ °F wb)																
		76/63				78/65				80/67				82/69				
	Chilled	Total		Sensible	Chilled	Water	Total	Sensible	Chilled	Water	Total	Sensible	Chilled	Water	Total	Sensible	Chilled	Water
	Water	Capacity	Capacity	Water	Pressure	Capacity	Capacity	Water	Pressure	Capacity	Capacity	Water	Pressure	Capacity	Capacity	Water	Pressure	
	Temp.	°F	(BTUH)	(BTUH)	(GPM)	(ft.wg)	(BTUH)	(BTUH)	(GPM)	(ft.wg)	(BTUH)	(BTUH)	(GPM)	(ft.wg)	(BTUH)	(BTUH)	(GPM)	(ft.wg)
UCS-024WH	40	18,400	15,800	3.68	2.35	21,800	17,100	4.36	3.17	26,100	18,800	5.22	4.33	30,400	20,400	6.08	5.65	
	45	17,800	16,400	3.56	4.46	21,100	17,500	4.22	6.02	25,100	19,000	5.02	8.19	29,300	20,400	5.86	10.79	
	50	16,800	16,800	3.36	13.60	19,700	17,900	3.94	17.95	23,600	19,200	4.72	24.64	27,700	20,500	5.54	32.71	
UCS-036WH	40	28,300	22,600	5.66	3.77	34,400	25,100	6.88	5.32	40,400	27,400	8.08	7.07	46,500	29,500	9.30	9.04	
	45	26,400	22,500	5.28	6.79	32,100	24,700	6.42	9.56	37,900	26,800	7.58	12.79	43,800	28,800	8.76	16.50	
	50	23,500	22,200	4.70	18.55	29,000	24,200	5.80	26.88	34,600	26,100	6.92	36.49	40,300	27,900	8.06	47.89	
UCS-048WH	40	35,800	30,900	7.16	2.86	42,200	33,200	8.44	3.82	50,200	36,500	10.04	5.18	58,300	39,300	11.66	6.74	
	45	34,400	31,900	6.88	5.38	40,500	33,800	8.10	7.21	48,100	36,700	9.62	9.73	56,100	39,400	11.22	12.78	
	50	32,400	32,400	6.48	16.34	37,600	34,500	7.52	21.23	45,100	37,000	9.02	29.10	52,800	39,400	10.56	58.59	
UCS-060WH	40	44,700	37,100	8.94	3.41	54,800	41,500	10.96	4.89	64,600	45,400	12.92	6.52	74,800	48,900	14.96	8.44	
	45	42,500	37,800	8.50	6.32	51,700	41,500	10.34	8.94	61,200	45,000	12.24	12.05	71,000	48,200	14.20	15.60	
	50	39,600	39,200	7.92	18.75	47,300	41,400	9.46	25.62	56,500	44,500	11.30	35.11	66,100	47,400	13.22	46.19	
UCS-084WH	40	63,600	54,700	12.72	3.52	75,400	59,300	15.08	4.75	89,300	64,800	17.86	6.39	103,500	69,800	20.70	8.31	
	45	60,800	56,300	12.16	6.56	71,800	59,900	14.36	8.83	85,000	64,900	17.00	11.88	99,000	69,600	19.80	15.55	
	50	57,100	57,100	11.42	19.79	66,300	60,800	13.26	25.73	79,300	65,200	15.86	35.21	92,900	69,300	18.58	46.64	
UCS-096WH	40	81,800	67,600	16.36	5.30	99,100	74,900	19.82	7.43	116,400	81,600	23.28	9.87	133,900	87,500	26.78	12.61	
	45	76,000	67,400	15.20	9.42	92,500	74,100	18.50	13.33	109,100	80,100	21.82	17.84	126,200	85,600	25.24	23.01	
	50	69,900	69,300	13.98	27.33	83,800	73,200	16.76	37.55	99,900	78,700	19.98	51.28	116,700	83,800	23.34	67.32	
UCS-120WH	40	87,900	71,900	17.58	1.82	107,200	80,100	21.44	2.58	127,700	88,300	25.54	3.52	148,700	95,800	29.74	4.60	
	45	84,200	73,300	16.84	3.42	103,100	80,900	20.62	4.89	122,500	88,200	24.50	6.63	142,400	94,800	28.48	8.63	
	50	78,900	75,800	15.78	10.24	95,200	80,900	19.04	14.25	113,900	87,300	22.78	19.58	133,400	93,400	26.68	25.81	
UCS-150WH	40	111,600	93,900	22.32	2.44	123,500	101,900	24.70	3.31	157,600	112,000	31.52	4.49	183,300	121,200	36.66	5.87	
	45	107,000	96,400	21.40	4.59	127,100	103,300	25.42	6.24	150,900	112,300	30.18	8.42	175,800	120,500	35.16	11.04	
	50	100,700	100,700	20.14	13.87	117,900	104,500	23.58	18.32	141,200	112,500	28.24	25.23	165,400	119,900	33.08	33.27	
UCS-180WH	40	135,200	110,000	27.04	3.64	164,800	122,600	32.96	5.16	193,900	133,800	38.78	6.88	223,800	144,100	44.76	8.83	
	45	126,800	110,100	25.36	6.57	154,700	121,400	30.94	9.34	182,700	131,700	36.54	12.54	211,600	141,100	42.32	16.20	
	50	116,500	112,400	23.30	19.02	140,700	119,900	28.14	26.60	167,700	129,100	33.54	36.18	196,000	137,800	39.20	47.54	
UCS-240WH	40	192,100	154,600	38.42	7.48	230,500	170,300	46.10	10.29	269,000	184,500	53.80	13.50	308,700	197,900	61.74	17.18	
	45	176,000	151,700	35.20	12.97	213,000	166,200	42.60	18.10	250,200	179,400	50.04	24.06	288,600	191,800	57.72	30.90	
	50	156,500	150,400	31.30	35.36	190,700	161,900	38.14	50.13	226,700	174,000	45.34	67.89	264,400	185,400	52.88	88.92	


* Standard Design Cooling Capacity and Water Flow Rate at 6 FPI




ISO 9001
ISO 14001
ISO 45001




ISO/IEC 17025




NSC-TISI-TIS 17025 TESTING 0699




THAILAND TRUSTED QUALITY




UNI-AIRE CORPORATION CO., LTD.




Green Industry
ISO 14001:2015




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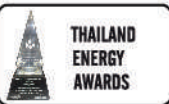
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