MODEL UACU

AIR-COOLED CONDENSING UNITS

FOR COMMERCIAL AND INDUSTRIAL AIR CONDITIONING

CAPACITY FROM 80,000 TO 400,000 BTUH

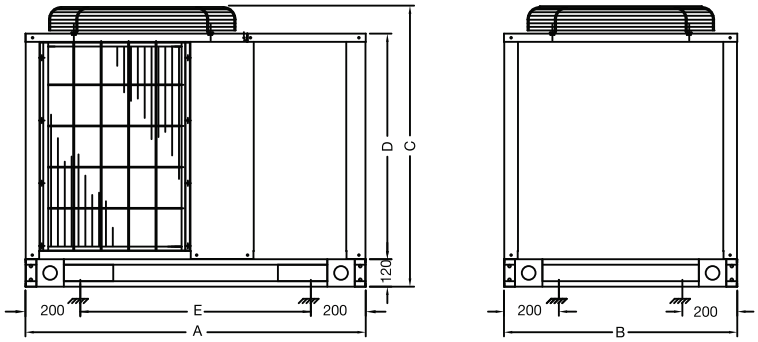
VERTICAL DISCHARGE

UNI-Aire®

Air Conditioning Experts

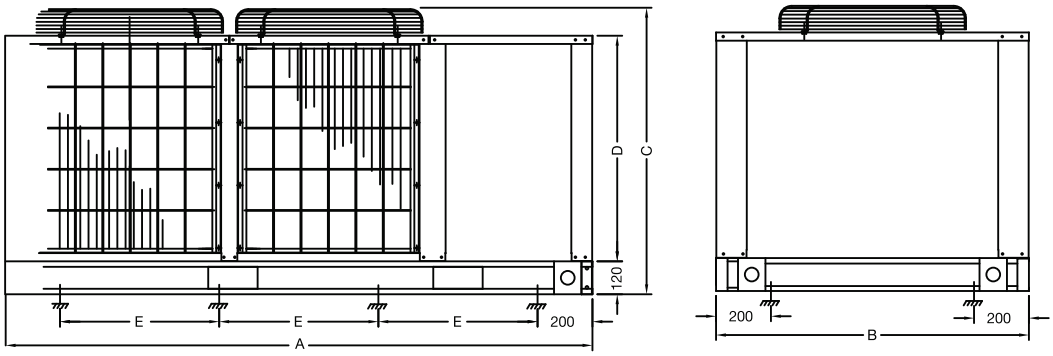
DIMENSIONAL DATA

MODEL UACU 007-012



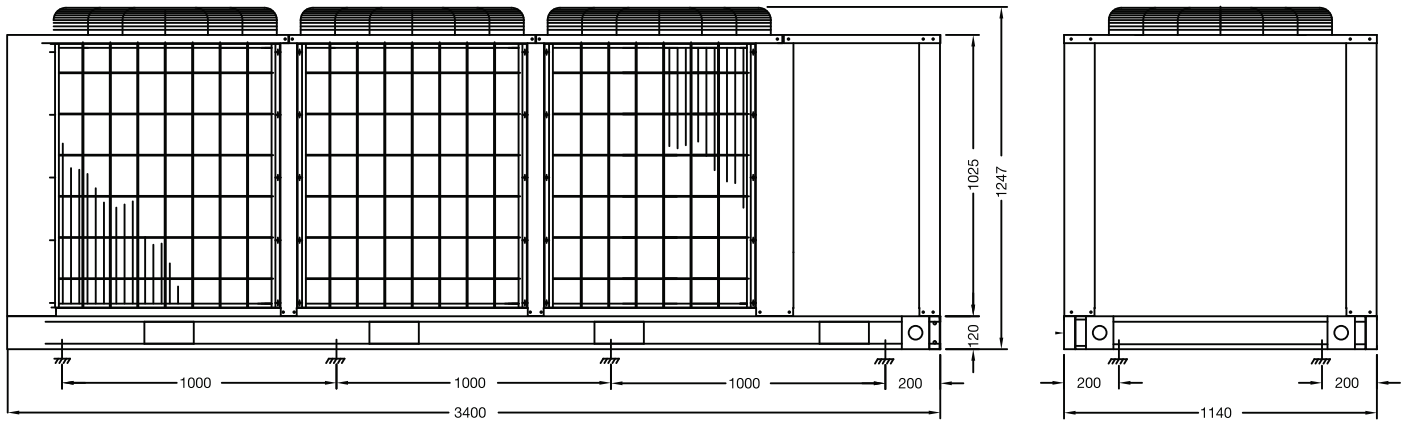
MODEL	A	B	C	D	E
UACU 007	1240	850	1044	822	840
UACU 009	1240	850	1044	822	840
UACU 010	1600	1140	1044	822	1200
UACU 012	1600	1140	1044	822	1200

MODEL UACU 015-030



MODEL	A	B	C	D	E
UACU 015	2140	1140	1044	822	580
UACU 020	2140	1140	1247	1025	580
UACU 025	2500	1140	1247	1025	700
UACU 030	2500	1140	1247	1025	700

MODEL UACU 040



PHYSICAL DATA

MODEL UACU		007 (H)	009 (H)	010 (H)	012 (H)	015 (H)	020 (H)	025 (2H)	030 (2H)	040 (2H)
NOMINAL CAPACITY **	MBH.	80	90	100	120	150	200	250	300	400
Power Supply	Volt / Phase / Hz	380 / 3 / 50								
Power Consumption	Kw	7.39	8.67	10.19	12.03	15.32	19.90	24.06	29.71	40.09
COMPRESSOR	Type	Hermetic (Scroll)								
Circuits		1	1	1	1	1	1	2	2	2
CONDENSER COIL	Type	Aluminium Louver Fin With Inner Groove Copper Tube								
Face Area		14.22	14.22	24.00	24.00	32.00	41.67	47.78	47.78	67.22
Rows..FPI		2..16	2..16	2..16	2..16	2..16	2..16	2..16	3..14	3..10
Tube Size	(Inch.)	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8
CONDENSER FAN & MOTOR		Propeller Fan : Vertical Discharge : Direct Drive								
Number		1	1	1	1	2	2	2	2	3
Each Motor	(HP.)	3/4	3/4	1	1	3/4	3/4	1	1	1
Rpm.		900								
Air Quantity	(cfm)	7,000	8,000	10,000	10,000	14,000	14,000	20,000	20,000	30,000
REFRIGERANT	Type	R-22								
Charge		**Holding Charge**								
CONNECTIONS										
Suction	(Inch.)	1-1/8	1-1/8	1-3/8	1-3/8	**1-5/8**	1-5/8	1-3/8	**1-5/8**	1-5/8
Liquid	(Inch.)	5/8	5/8	5/8	5/8	5/8	7/8	5/8	5/8	7/8
DIMENSIONAL										
Length	(mm.)	1240	1240	1600	1600	2140	2140	2500	2500	3405
Width	(mm.)	850	850	1140	1140	1140	1140	1140	1140	1140
Hieght	(mm.)	1044	1044	1044	1044	1044	1247	1247	1247	1247
WEIGHT Operation	**(kgs)**	198	215	284	317	405	443	474	528	686

** Nominal capacity based on 45 °F suction temp. and 95 °F Ambient Temp (1 MBH. = 1,000 BTUH.)

Actual capacity is performance within +/- 5% variation form Nominal cooling capacity.

ELECTRICAL DATA

MODEL UACU		007 (H)	009 (H)	010 (H)	012 (H)	015 (H)	020 (H)	025 (2H)	030 (2H)	040 (2H)
COMPRESSOR (Each)	Q'ty	1	1	1	1	1	1	2	2	2
	V / PH / Hz	380 / 3 / 50								
	Power Input (Watt)	6,542	7,821	8,957	10,800	13,622	18,200	10,800	13,622	18200
	FLA. (Amp.)	12.1	14.3	20.7	22.9	24.2	35.7	22.9	24.2	35.7
	LRA. (Amp.)	98.0	130	130	145	175	215	145	175	215
FAN MOTOR (Each)	Q'ty	1	1	1	1	2	2	2	2	3
	Power Input (Watt)	850	850	1233	1233	850	850	1233	1233	1233
	V / PH / Hz	380 / 3 / 50								
	FLA. (Amp.)	1.2	1.2	2.3	2.3	1.2	1.2	2.3	2.3	2.3

Note:

FLA = Full load Amp.

LRA = Locked Rotor Amp.

Specifications are subjected to change without notice for future improvement.

PHYSICAL DATA

UNIT AIR COOLED		TEMP. AIR ENTERING CONDENSER (°F)														
MODEL	SST	85			90			95			100			105		
UACU	(°F)	Cap.	SCT	KW	Cap.	SCT	KW	Cap.	SCT	KW	Cap.	SCT	KW	Cap.	SCT	KW
007	30	63.1	109.9	5.49	61.2	114.8	5.79	59.4	119.9	6.13	57.5	124.9	6.45	47.6	132.5	7.66
	35	69.7	111.8	5.61	67.9	116.8	5.93	66.0	121.8	6.25	63.8	126.7	6.60	53.0	134.0	7.80
	40	76.7	113.6	5.73	74.9	118.7	6.06	72.7	123.4	6.37	70.4	128.4	6.76	58.0	143.1	7.95
	45	84.5	115.7	5.86	52.3	120.8	6.18	80.0	125.5	6.49	77.5	130.4	6.89	64.5	145.1	8.09
	50	92.9	117.7	5.95	90.4	122.9	6.26	87.8	127.7	6.62	85.2	132.5	6.99	71.0	146.8	8.17
009	30	74.9	118.1	6.71	69.0	117.1	6.77	69.9	122.1	7.16	59.6	127.2	7.60	58.5	142.0	8.99
	35	83.0	120.6	6.90	76.7	119.5	6.93	74.2	124.1	7.29	66.1	129.3	7.75	64.8	144.0	9.14
	40	91.1	122.7	7.03	84.4	121.3	7.03	81.9	126.1	7.40	72.9	131.1	7.87	71.4	145.9	9.26
	45	100.3	125.1	7.17	92.8	123.7	7.16	90.0	128.3	7.55	80.3	133.3	8.02	78.8	147.7	9.40
	50	109.9	127.4	7.33	101.5	125.8	7.32	98.4	130.6	7.76	88.0	135.5	8.24	86.5	149.6	9.56
010	30	88.2	111.6	7.08	76.8	105.0	6.77	74.5	109.9	7.18	71.2	114.6	7.61	65.6	128.7	9.12
	35	97.4	113.2	7.20	94.8	106.6	6.89	82.8	111.3	7.31	80.5	116.0	7.74	72.5	130.0	9.24
	40	107.0	115.0	7.35	104.0	108.0	7.02	91.1	112.7	7.44	88.4	117.4	7.86	80.2	131.4	9.34
	45	117.3	116.5	7.50	114.3	109.2	7.14	100.0	114.2	7.57	97.4	118.9	7.99	88.4	132.6	9.44
	50	128.4	118.3	7.62	125.4	111.1	7.27	109.6	115.8	7.66	106.7	120.4	8.11	97.1	134.2	9.59
012	30	105.0	116.3	8.94	93.6	111.1	8.67	90.9	116.0	9.18	88.2	121.0	9.69	69.8	133.0	10.27
	35	115.9	118.3	9.17	103.1	112.9	8.88	100.4	117.8	9.37	97.7	122.8	9.94	90.5	135.2	11.52
	40	127.4	120.2	9.39	113.3	114.7	9.09	110.3	119.4	9.55	107.6	124.4	10.24	100.4	137.8	12.30
	45	139.7	122.2	9.62	124.2	116.7	9.29	120.9	121.3	9.78	117.1	126.0	10.33	104.8	139.2	12.87
	50	152.7	124.1	9.85	136.2	118.7	9.52	132.4	123.3	9.98	127.7	127.8	10.39	120.8	141.3	13.17
015	30	120.7	112.6	11.10	117.6	117.6	11.73	114.4	122.5	12.35	109.9	127.3	12.78	93.8	140.6	13.65
	35	132.6	114.6	11.38	129.1	129.1	12.00	125.2	124.4	12.63	122.8	129.7	13.70	115.5	145.7	16.02
	40	144.4	116.6	11.68	139.5	139.0	12.29	137.1	126.4	12.99	133.6	131.4	13.58	122.8	146.5	16.53
	45	159.1	118.5	11.96	154.2	154.2	12.60	150.0	128.4	13.12	144.4	132.8	13.85	127.4	147.6	17.22
	50	176.9	121.2	12.34	173.0	173.0	13.00	173.0	130.8	13.70	161.2	135.4	14.42	143.2	149.1	17.49
020	30	167.8	112.8	17.24	162.9	117.3	18.01	155.4	121.3	18.39	148.3	16.3	18.77	144.9	137.3	19.92
	35	183.5	115.0	17.82	179.5	119.9	19.34	176.0	124.9	19.58	172.7	17.9	20.61	161.9	144.3	21.11
	40	200.5	117.0	18.31	195.2	121.6	19.47	190.0	126.3	20.01	184.3	18.4	21.12	168.6	146.4	23.08
	45	217.0	119.3	18.82	209.5	123.5	19.41	200.9	128.5	20.64	194.4	19.3	22.13	171.9	147.6	23.92
	50	235.7	122.3	19.84	229.4	126.6	20.83	222.6	131.1	21.71	215.8	19.8	22.79	195.9	149.1	24.79
025	30	186.3	114.2	16.25	180.3	119.2	17.14	173.9	124.5	18.18	166.8	129.4	19.32	141.7	156.9	21.96
	35	212.9	117.3	16.47	206.5	122.3	17.37	200.1	127.1	18.44	194.1	132.3	19.56	175.8	180.6	22.55
	40	239.1	120.0	16.70	232.0	124.8	17.60	224.9	130.0	18.69	217.4	134.8	19.80	195.3	203	23.30
	45	267.2	122.8	16.97	259.7	127.5	17.90	250.0	132.0	18.99	240.2	136.7	20.09	211.0	225.6	24.24
	50	297.6	126.0	17.20	287.8	130.5	18.19	277.7	135.0	19.29	167.2	139.4	20.39	236.1	250.6	25.22
030	30	333.4	113.0	22.37	234.0	117.8	23.55	227.8	113.8	24.27	211.9	144.1	25.33	164.8	138.5	26.73
	35	264.9	115.2	22.98	257.7	121.1	24.24	250.8	125.0	24.84	245.0	161.5	26.36	226.4	145.4	27.55
	40	290.0	117.4	23.63	282.1	122.5	24.88	275.9	127.4	25.68	269.7	174.6	27.04	251.5	147.4	29.19
	45	320.0	119.8	24.90	310.7	124.8	25.53	300.0	129.0	26.54	289.0	184.7	27.65	256.7	146.8	29.49
	50	356.8	123.0	25.17	343.0	127.4	26.17	329.3	131.9	27.40	316.2	199.1	28.49	275.9	148.6	30.85
040	30	326.2	115.1	30.37	317.2	125.8	31.79	304.1	124.4	33.08	282.4	128.4	33.69	275.9	143.3	35.47
	35	360.0	117.6	31.37	350.0	128.5	32.92	341.4	127.4	35.13	333.1	132.6	35.57	308.0	154.7	37.73
	40	394.7	119.7	32.32	384.4	130.7	34.15	375.8	129.5	36.63	367.1	134.8	37.44	341.4	148.1	39.79
	45	432.6	122.4	33.46	418.5	133.0	34.87	400.9	131.3	37.52	389.6	135.7	39.21	346.5	149.0	41.60
	50	471.6	124.2	34.58	455.3	135.5	35.80	438.9	134.2	38.61	423.9	130.1	39.66	375.8	151.3	44.81

SST = Saturated suction Temp.
Cap = Capacity MBH. (1 MBH = 1,000 Btuh.)
SCT = Saturated Condensing Temp.
KW = Compressor Motor Power Input at Rated Voltage

Notes :
1. Assume 15 °F Subcooling when selecting TXV.
2. Interpolation is permissible. Do not extrapolate.

Specifications are subjected to change without notice for future improvement.

UNI-Aire®
Air Conditioning Experts

ISO 9001 ISO 14001 TIS 18001 OHSAS 18001 มอก. 1155 มอก. 2134

THAILAND ENERGY AWARDS

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BEST THAI BRAND
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