



40RBU / 38ASU Series

Air Handling Unit - Split System, R-410a

Nominal Capacity : 400,000-800,000 Btuh



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World's No.1 Air Conditioning Expert

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40RBU Series



These air handling units offer customized arrangement with Carrier's renown dependability.

The **40RBU** air handlers provide an efficient source of conditioned air for factories, shops, offices or restaurants. Coupled with appropriate condensing unit, the **40RBU Series** produce nominal capacities from 400,000 to 800,000 btu/hr.

Slim proportions (less than 910 mm. deep For 40RBU040) allow these units to be floor-mounted or ceiling-suspended.

(40RBU050-080 cannot swap blower direction at jobsite)
Must be selected Horizontal or Vertical when ordering.

Compatible with



38ASU400S305-600S305

38ASU Series



Air-cooled condensing units designed for easy installation, reliability and service.

Features

- Fully hermetic Scroll compressor with high efficiency and reliability
- Reliable operation
- Environment friendly with R-410a refrigerant

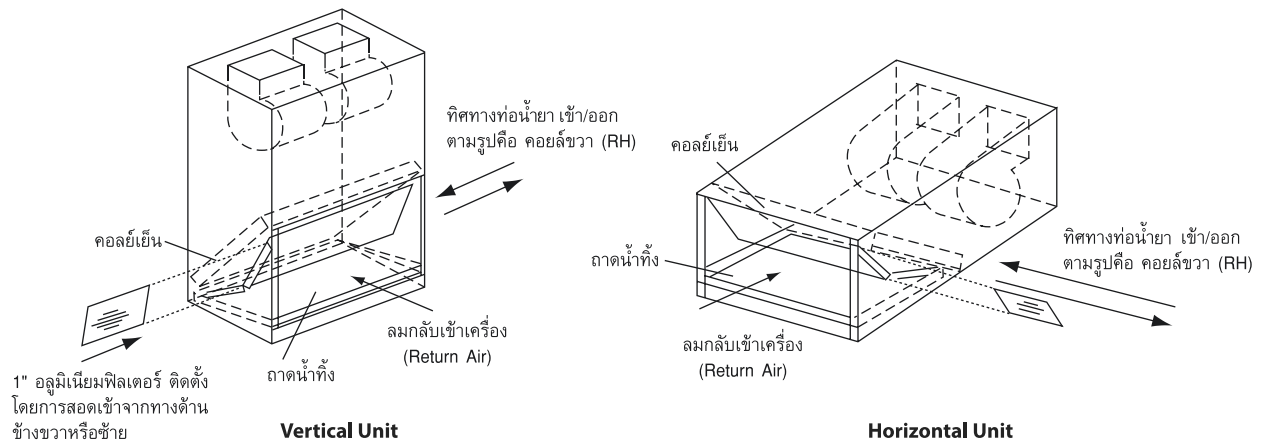
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Physical data

Model		CDU	38ASU			
			400S305	500S305	600S305	2 x 400S305
Description		AHU	40RBU-X			
			040	050	060	080
Normal Capacity	Cooling Capacity *	btu/h	400,000	500,000	600,000	800,000
	Air Flowrate	cfm	13,000	15,000	20,000	25,500
Refrigerant			R-410a			
CDU						
Operating Weight		kg	950	1,100	1,200	2 x 950
Power Supply		V/Ph/Hz	380/3/50			
Power Consumption		W	33,270	42,520	56,320	2 x 33,270
Operating Current		Amp.	59.80	79.10	100.50	2 x 59.8
Dimension	Width	mm	2,050	2,250	2,250	2,050
	Height	mm	1,300	1,420	1,420	1,300
	Depth	mm	2,795	3,020	3,020	2,795
Condenser Coil	Coil Arrangement	row / fpi	2/18	4/18	4/18	2/18
	Coil / Fin Material		Cu/Al	Cu/Al	Cu/Al	Cu/Al
	No. of circuit		2	2	2	2 x 2
Compressor	Type		Scroll			
	No. of compressor(s)		2	2	2	2 x 2
	Capacity steps		0/50/100	0/50/100	0/50/100	0/25/50/100
Condenser fan	Type		Propeller, Direct Drive			
	Q'ty....Diameter	inch	4...24"	4...28"	4...28"	4...24"
	Fan motor power input	W	4x366	4x630	4x630	4x366
	Fan motor power supply	V/Ph/Hz	380/3/50	380/3/50	380/3/50	380/3/50
Safety Device	Hi-Pressure Switch	psig	600 +25 / 420 +15 (Cut out / Cut in) - Auto Restart type			
	Low-Pressure Switch	psig	65 +5 / 115 +5 (Cut out / Cut in) - Auto Restart type			
Refrigerant			R-410A			
Pre-Charging from Factory		kg. x Circuit	2.00 x 2	2.00 x 2	2.00 x 2	2.00 x 4
Pipe Connection	Liquid pipe dia.	Q'ty...inch	2..7/8 (Flare)	2..7/8 (Flare)	2..7/8 (Flare)	4..7/8 (Flare)
	Suction pipe dia.	Q'ty...inch	2..1-3/8 (Brazing)	2..1-5/8 (Brazing)	2..1-5/8 (Brazing)	4..1-3/8 (Brazing)
AHU						
Operating Weight		kg	525	850	1,000	1,110
Power Supply		V/Ph/Hz	380/3/50			
Air Flow rate Range		cfm	10,500-13,100	12,700-19,000	15,200-22,800	20,500-29,000
Cooling Coil	Coil Arrangement	row / fpi	4/14	3/15	4/15	4/15
	Coil Face Area	sq.ft	26.30	40.17	40.17	51.04
	Coil / Fin Material		Cu/Al	Cu/Al	Cu/Al	Cu/Al
	TXV Q'ty...Size	ton	2...15	2...20	2...25	4...15
	No. of circuit		2	2	2	4
Fan	Fan Size	inch	18"x18"	FDA450-SM2	FDA500-SM2	FDA500-SM2
	Fan Q'ty		2	2	2	2
	Standard speed	rpm	641	630	630	720
Motor	Standard motor size	hp	7.5	10	15	20
	Motor speed	rpm	1,450	1,450	1,450	1,450
	Motor range	hp	7.5 - 10	10 - 15	10 - 15	15-20
Accessories	Fan Pulley		280-2B-35	280-2B-35	280-2B-35	16-3B-40
	Motor Pulley		125-2B-38	125-2B-38	125-2B-38	8-3B-42
	Belt		B-72	B-72	B-72	B-101
	Belt Q'ty		2	2	2	3
Insulation	Type		PE Foam			
	Thermal Conductivity		0.036 w/m.K			
	Thickness		10mm			
Air Filter	Type		Washable Aluminium Filter			
	Q'ty ... Size	inch	2...16"x20"x2"	2...16"x20"x2"	2...16"x20"x2"	12...20"x20"x2"
	(Width x Height x Thickness)		6...20"x25"x2"	6...20"x25"x2"	6...20"x25"x2"	6...20"x25"x2"
Pipe Connection	Liquid pipe dia.	Q'ty...inch	2...5/8"	2...7/8"	2...7/8"	4...5/8"
	Suction pipe dia.	Q'ty...inch	2...1-3/8"	2...1-5/8"	2...1-5/8"	4...1-3/8"
	Condensate drain dia.		2"	1-1/2"	1-1/2"	1-1/2"
	Condensate drain connection type		Female Pipe Thread		Male Pipe Thread	

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Coil connection



Model Nomenclature

38ASU Model Nomenclature

Digit	:	1	2	3	4	5	6	7	8	9	10	11
Model	:	3	8	A	S	U	2	0	0	S	3	0

Air cooled condensing unit
38ASU series

Unit size = 150, 200, 250, 300, 400, 500, 600



0 = Revision 0

3 = 380V / 3Ph / 50Hz

S = Scroll compressor, T = Scroll compressor (Tandem)

40RBU Model Nomenclature

Digit	:	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Model	:	4	0	R	B	U	0	2	5	X	-	3	0	R	V

Air Handling unit R410a
40RBU series

Unit size = 012, 015, 020, 025, 030, 040, 050, 060, 080

X = Direct Expansion coil

3 = 380V / 3Ph / 50Hz

Unit type

V = Vertical, H = Horizontal

Coil connection :

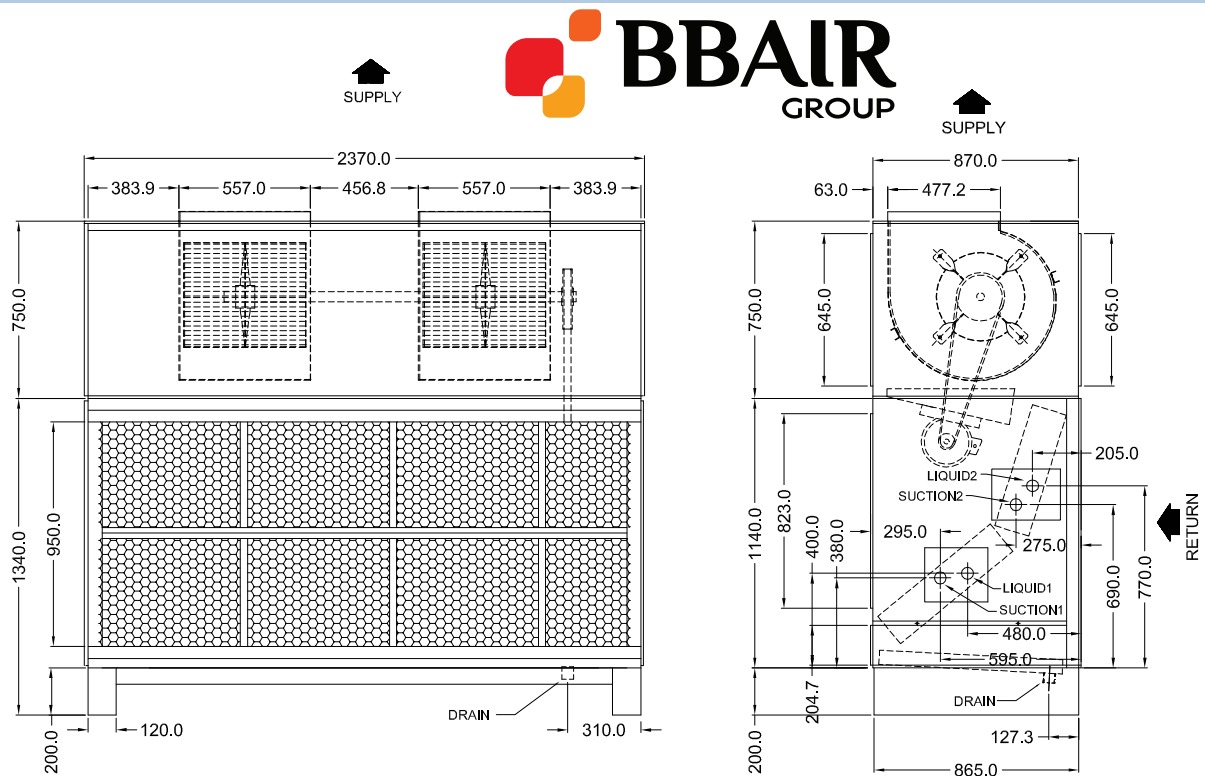
R = Right, L = Left

0 = Revision 0

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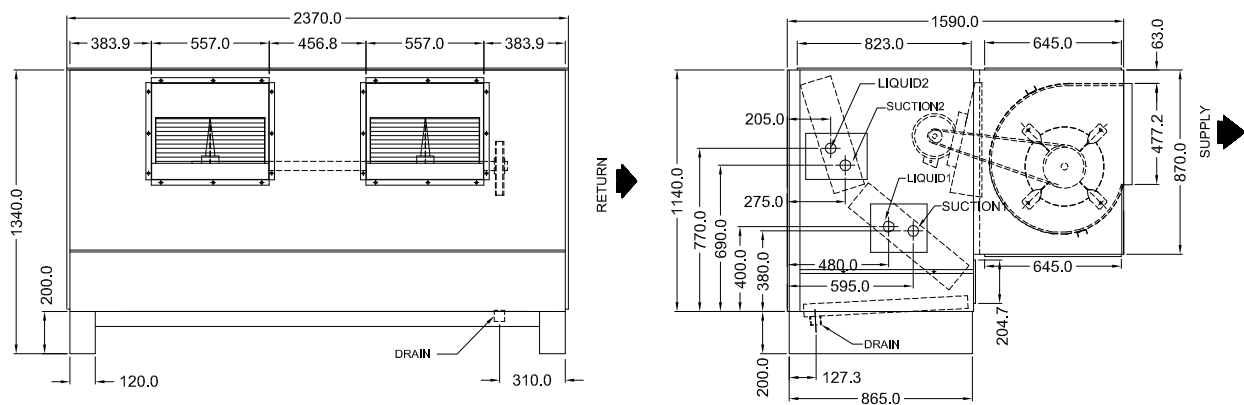
Unit dimensions

40RBU040 Vertical Type



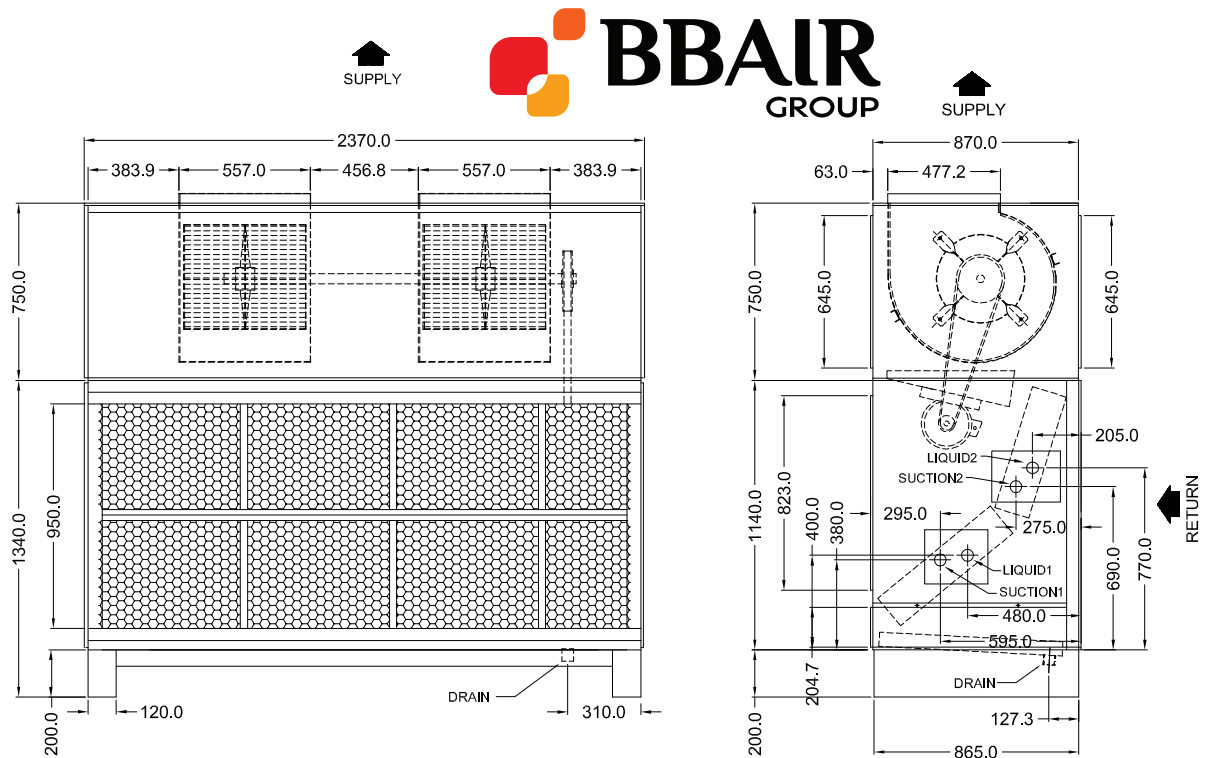
40RBU040 Horizontal Type

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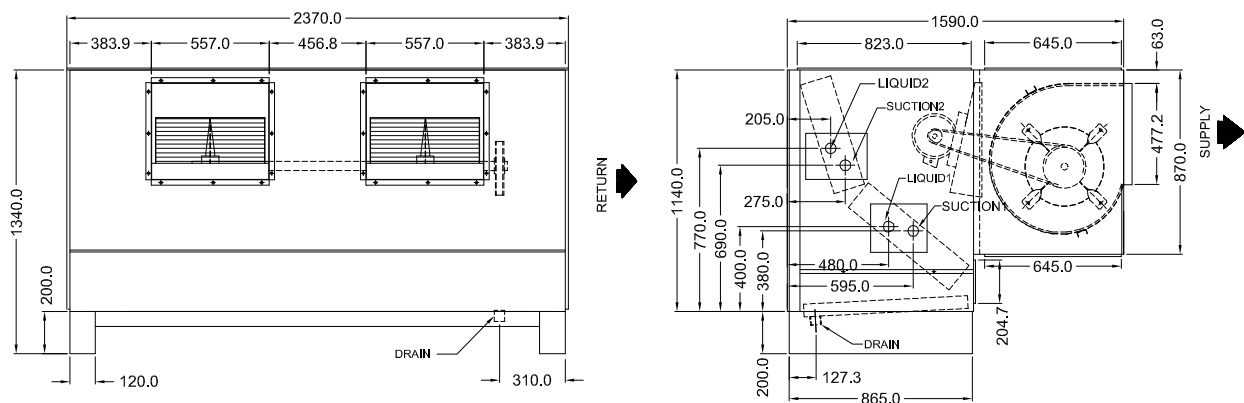
Unit dimensions

40RBU040 Vertical Type



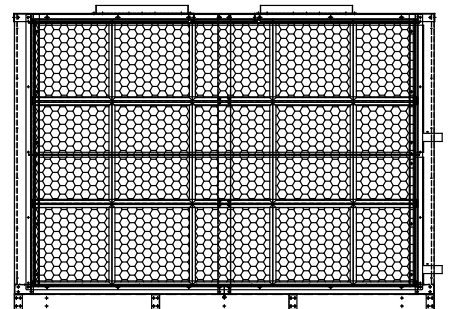
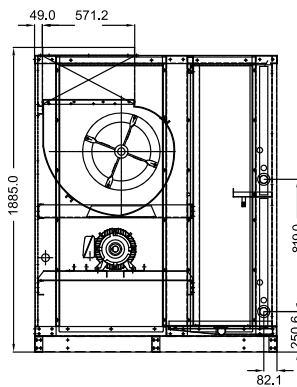
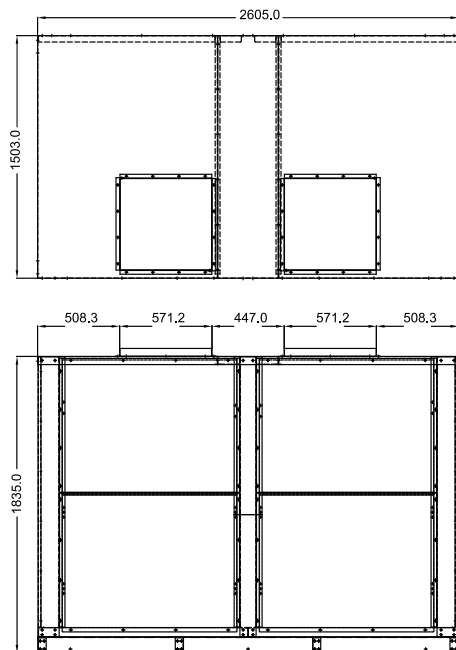
40RBU040 Horizontal Type

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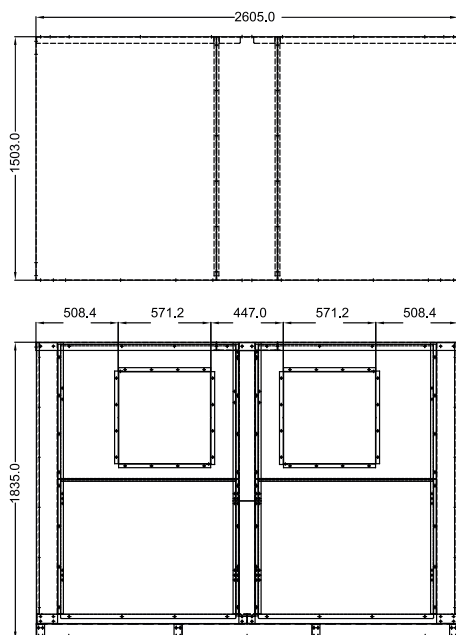


Unit dimensions

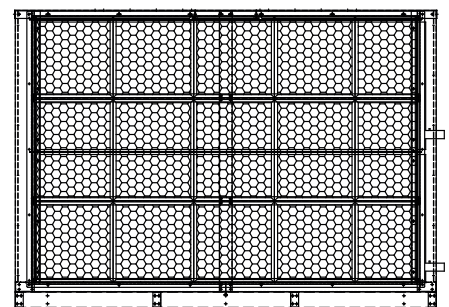
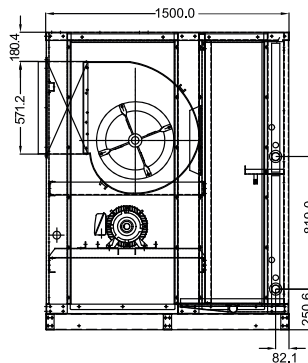
40RBU050 Vertical Type



40RBU050 Horizontal Type

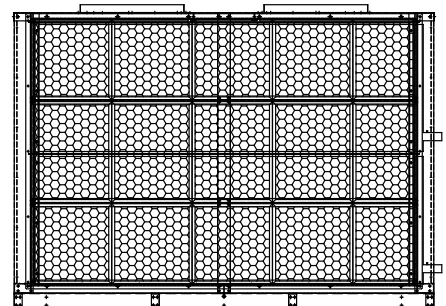
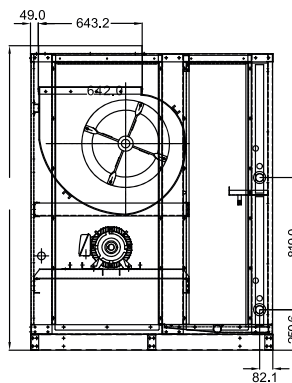
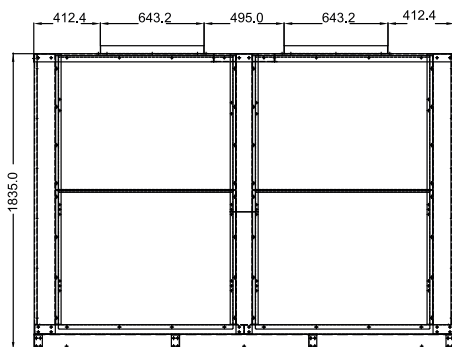
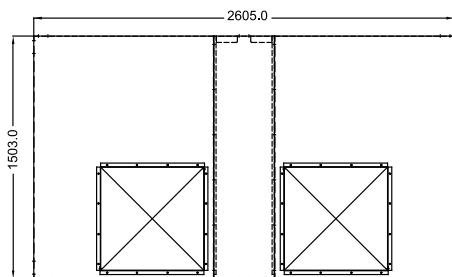


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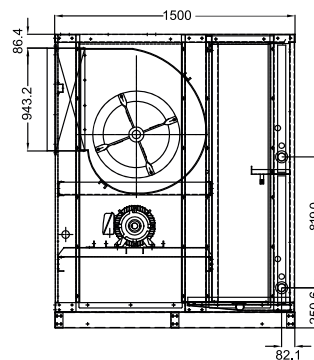
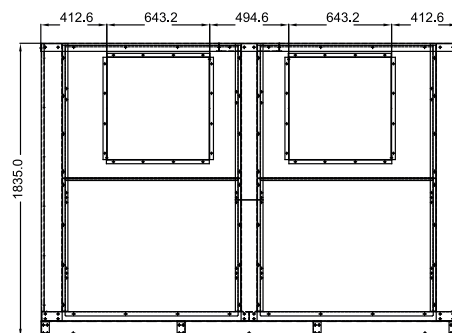
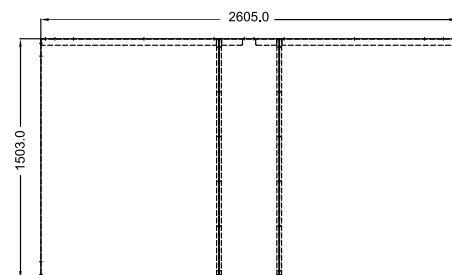


Unit dimensions

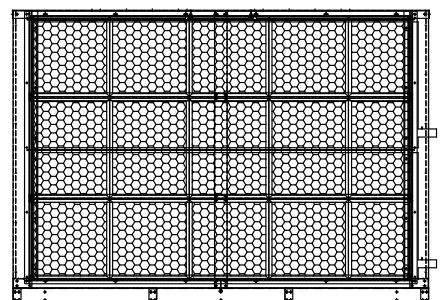
40RBU060 Vertical Type



40RBU060 Horizontal Type

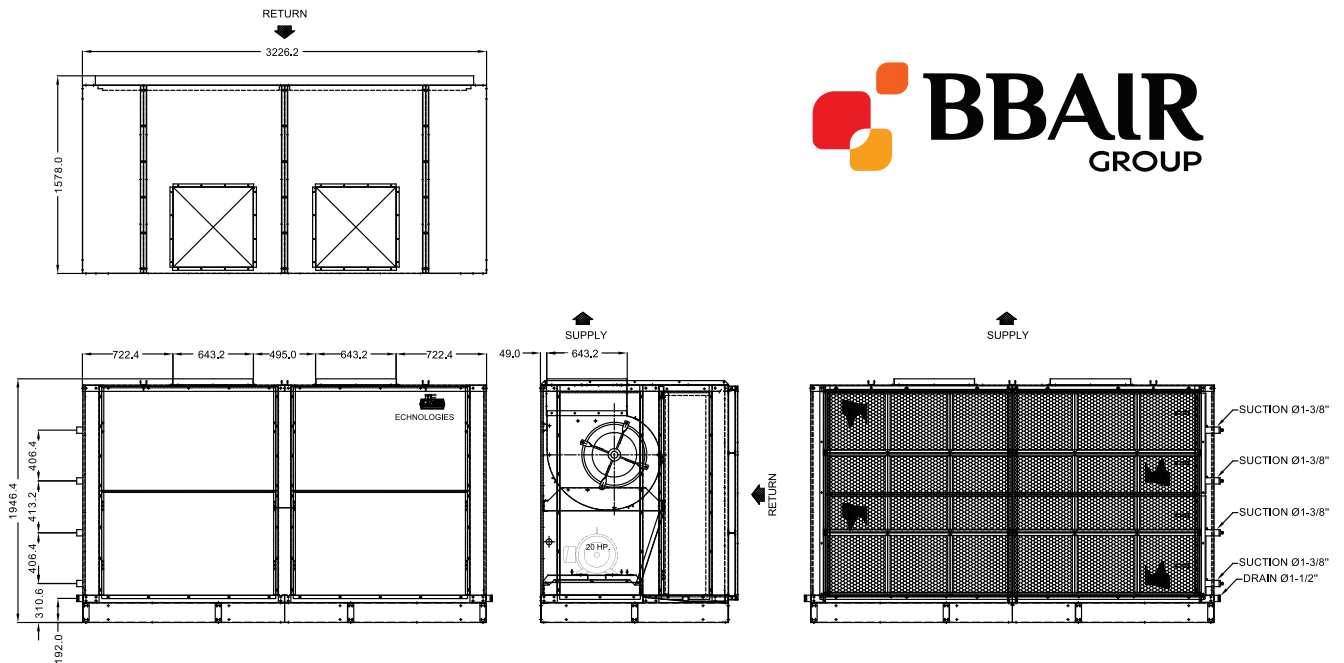


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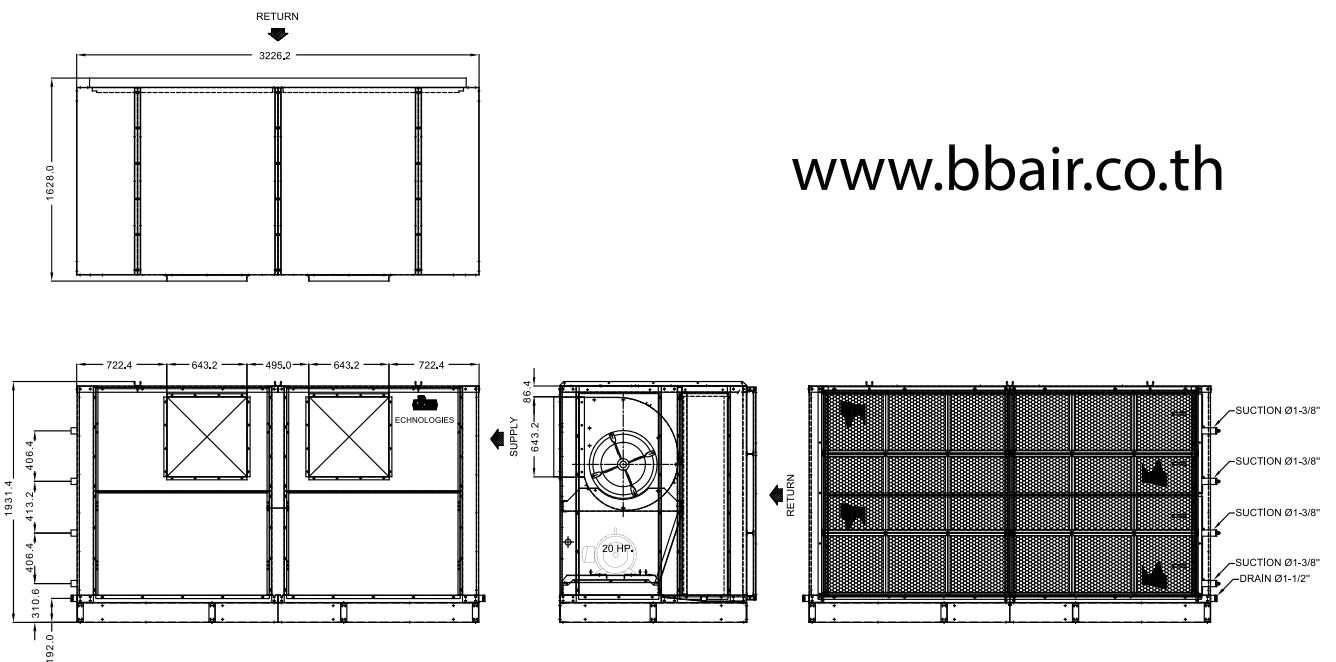


Unit dimensions

40RBU080 Vertical Type

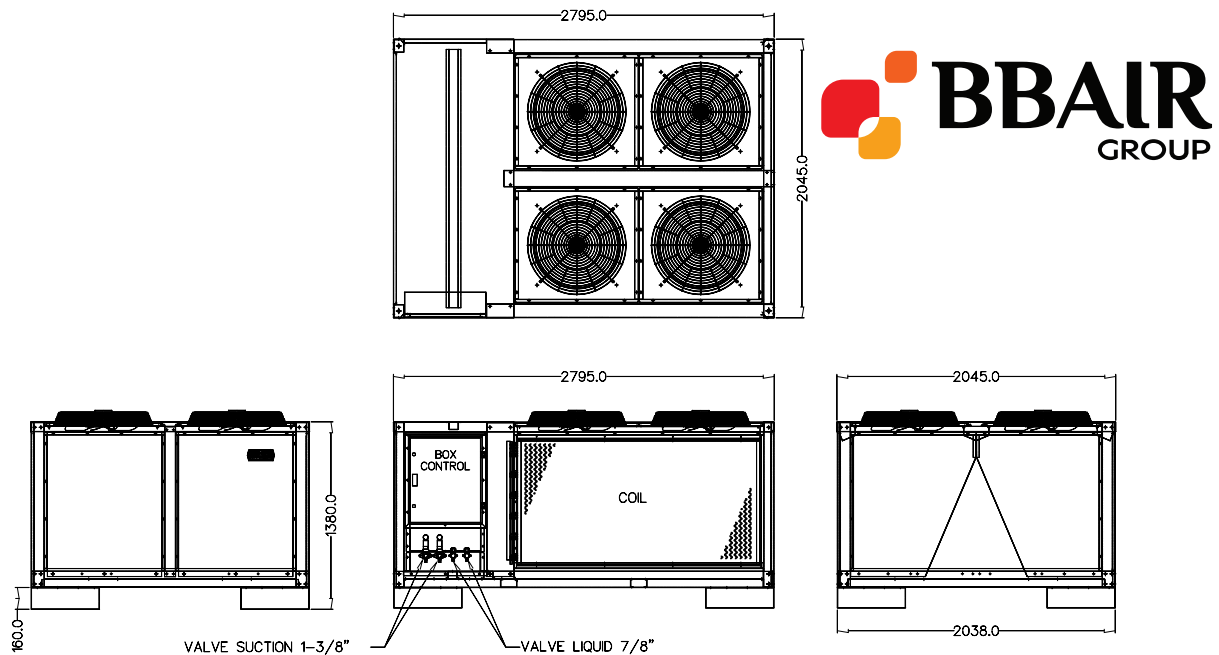


40RBU080 Horizontal Type

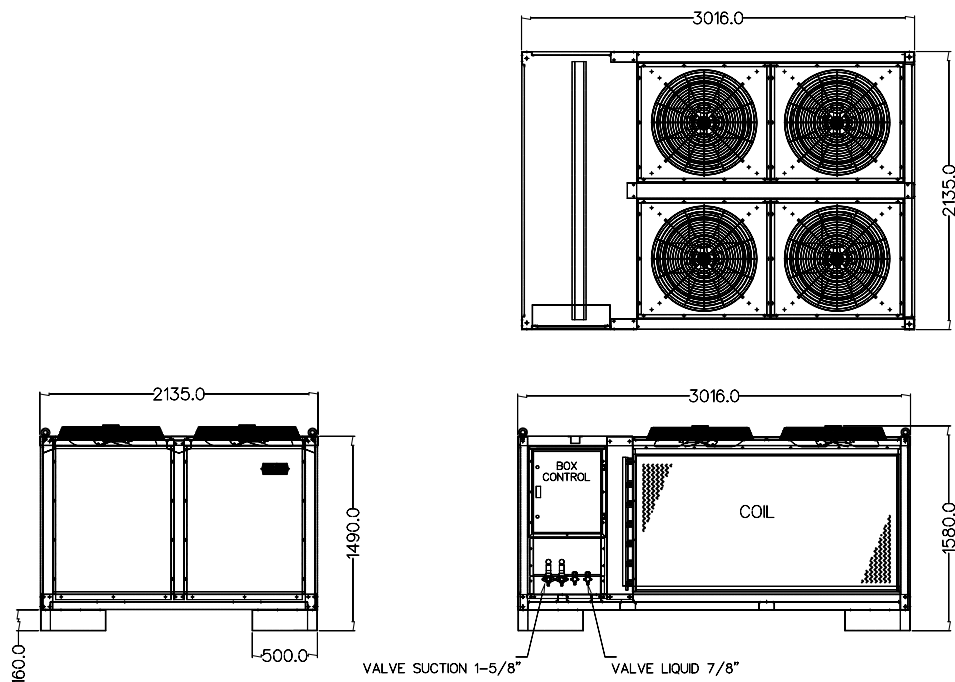


Unit dimensions

38ASU400S301



38ASU500-600S301



บริษัท แคมเรียร์ (ประเทศไทย) จำกัด
1858/63-74 ชั้น 14, 15
ถ.เทพรัตน กม. 4.5 แขวงบางนาใต้
เขตบางนา กรุงเทพฯ 10260
โทร. 0-2090-9999 แฟกซ์: 0-2751-4778

Carrier (Thailand) Ltd.
1858/63-74 , 14th, 15th Floor,
Debaratna Road, Km.4.5, Bangna Tai,
Bangna Bangkok 10260 Thailand
Tel. 0-2090-9999 Fax: 0-2751-4778



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