



40RBU / 38LHU, 38ASU Series

Air Handling Unit - Split System, R-410a

Nominal Capacity : 120,000-600,000 Btuh



40RBU Series



These air handling units offer customized arrangement with Carrier's renowned 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 120,000 to 600,000 btu/hr.

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

Compatible with



38LHU Series

38LHU, 38ASU Series

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

Features

- Fully hermetic Scroll compressor
- Reliable operation
- Flexible air discharge configuration (for 38LHU)
- R410a, Zero Ozone Depletion refrigerant



38ASU150S301-300S301

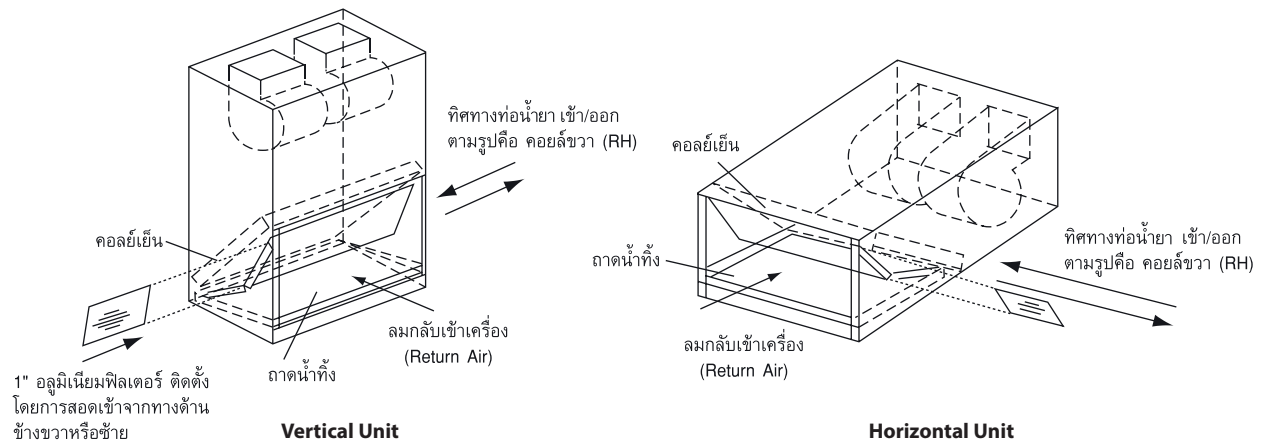


38ASU400S301-600S301

Physical data

Description			Model	CDU	38LHU			38ASU					
					120S301	150X301	200X301	150S301	200S301	240S301	300S301	400S301	500S301
			AHU	40RBU-X									
			012	015	020	015	020	025	030	040	050	060	
Normal Capacity	Cooling Capacity *	btu/h	120,000	150,000	200,000	150,000	200,000	240,000	300,000	400,000	500,000	600,000	
	Air Flowrate	cfm	4,000	5,400	7,500	5,400	7,500	8,600	10,700	13,000	15,000	20,000	
Refrigerant			R-410a										
CDU													
Operating Weight			kg	260	295	335	390	450	480	510	950	1,100	1,200
Power Supply			V/Ph/Hz	380/3/50									
Power Consumption			W	11,130	13,380	16,858	13,380	17,630	22,260	26,760	33,270	42,520	56,320
Operating Current			Amp.	21.20	27.50	32.40	25.50	33.30	42.30	55.00	59.80	79.10	100.50
Dimension	Width	mm	1,040	1,050	1,050	1,940	1,940	1,940	1,940	2,050	2,250	2,250	
	Height	mm	1,050	1,150	1,150	970	970	1,122	1,122	1,300	1,420	1,420	
	Depth	mm	1,080	1,190	1,190	1,040	1,040	1,040	1,040	2,795	3,020	3,020	
Condenser Coil	Coil Arrangement	row / fpi	2/18	2/18	3/15	2/15	2/15	2/15	2/18	4/18	4/18	4/18	
	Coil / Fin Material		Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	
	No. of circuit		1	1	1	2	2	2	2	2	2	2	
Compressor	Type		Scroll										
	No. of compressor(s)		1	1	1	2	2	2	2	2	2	2	
	Capacity steps		0/100	0/100	0/100	0/50/100	0/50/100	0/50/100	0/50/100	0/50/100	0/50/100	0/50/100	
Condenser fan	Type		Propeller, Direct Drive										
	Q'ty....Diameter	inch	1...28"	1...28"	1...30"	2...24"	2...24"	2...28"	2...28"	4...24"	4...28"	4...28"	
	Fan motor power input	W	630	630	756	366	366	630	630	366	630	630	
	Fan motor power supply	V/Ph/Hz	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	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	Type		R-410A										
	Pre-Charging from Factory	kg. x Circuit	1.3 x 1	1.3 x 1	1.3 x 1	1.00 x 2	1.00 x 2	1.50 x 2	2.00 x 2	2.00 x 2	2.00 x 2	2.00 x 2	
Pipe Connection	Liquid pipe dia.	Q'ty...inch	1/2"	5/8"	7/8"	2.....1/2 (Flare)	2.....1/2 (Flare)	2.....1/2 (Flare)	2.....5/8 (Flare)	2.....7/8 (Flare)	2.....7/8 (Flare)	2.....7/8 (Flare)	
	Suction pipe dia.	Q'ty...inch	1-1/8"	1-1/8"	1-3/8"	2.....7/8 (Flare)	2.....1-1/8 (Brazing)	2.....1-1/8 (Brazing)	2.....1-1/8 (Brazing)	2.....1-5/8 (Brazing)	2.....1-5/8 (Brazing)	2.....1-5/8 (Brazing)	
AHU													
Operating Weight			kg	195	230	282	230	282	304	505	525	505	525
Power Supply			V/Ph/Hz	380/3/50									
Air Flow rate Range			cfm	3,400 - 4,100	4,400 - 5,400	6,100 - 7,600	4,400 - 5,400	6,100 - 7,600	7,000 - 8,600	8,600-10,800	10,500-13,100	12,700-19,000	15,200-22,800
Cooling Coil	Coil Arrangement	row / fpi	3/14	3/14	3/14	3/14	3/14	4/14	4/14	4/14	3/15	4/15	
	Coil Face Area	sq.ft	8.35	10.91	15.23	10.91	15.23	17.39	21.72	26.30	40.17	40.17	
	Coil / Fin Material		Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	
	TXV Q'ty...Size	ton	1...10	2...7.5	2...7.5	2...7.5	2...7.5	2...10	2...12	2...15	2...20	2...25	
	No. of circuit		1	2	2	2	2	2	2	2	2	2	
Fan	Fan Size	inch	10"x10"	12"x12"	15"x15"	12"x12"	15"x15"	15"x15"	18"x18"	18"x18"	FDA450-SM2	FDA500-SM2	
	Fan Q'ty		2	2	2	2	2	2	2	2	2	2	
	Standard speed	rpm	789	715	638	715	638	705	641	641	630	630	
Motor	Standard motor size	hp	2	3	3	3	3	5	7.5	7.5	10	15	
	Motor speed	rpm	1,420	1,430	1,430	1,430	1,430	1,410	1,435	1,435	630	630	
	Motor range	hp	2 - 3	3 - 5	3 - 5	3 - 5	3 - 5	3 - 5	7.5 - 10	7.5 - 10	10 - 15	10 - 15	
Accessories	Fan Pulley		225-18-25	250-18-30	280-18-30	250-18-30	280-18-30	250-18-30	280-28-35	280-28-35	280-28-35	280-28-35	
	Motor Pulley		125-18-24	125-18-28	125-18-28	125-18-28	125-18-28	125-18-28	125-28-38	125-28-38	125-28-38	125-28-38	
	Belt		B-48	B-54	B-44	B-54	B-44	B-41	B-72	B-72	B-72	B-72	
	Belt Q'ty		1	1	1	1	1	1	2	2	2	2	
Insulation	Type		PE Foam										
	Thermal Conductivity		0.036 w/m.K										
	Thickness		10mm										
Air Filter	Type		Washable Aluminium Filter										
	Q'ty ... Size	inch	1...10"x22"x1"	2...10"x22"x1"	3...16"x25"x1"	2...10"x22"x1"	3...16"x25"x1"	3...16"x25"x1"	2...16"x20"x2"	2...16"x20"x2"	2...16"x20"x2"	2...16"x20"x2"	
	(Width x Height x Thickness)		1...16"x22"x1"	1...10"x25"x1"	3...20"x25"x1"	1...10"x25"x1"	3...20"x25"x1"	3...20"x25"x1"	6...20"x25"x2"	6...20"x25"x2"	6...20"x25"x2"	6...20"x25"x2"	
			1...16"x25"x1"	2...16"x22"x1"	1...16"x25"x1"	1...16"x25"x1"	1...16"x25"x1"	1...16"x25"x1"	1...16"x25"x1"	1...16"x25"x1"	1...16"x25"x1"	1...16"x25"x1"	
Pipe Connection	Liquid pipe dia.	Q'ty...inch	1 ... 1/2"	2...1/2"	2...1/2"	2...1/2"	2...1/2"	2...1/2"	2...5/8"	2...5/8"	4...5/8"	2...7/8"	
	Suction pipe dia.	Q'ty...inch	1 ... 1-1/8"	2...7/8"	2...1-1/8"	2...7/8"	2...1-1/8"	2...1-1/8"	2...1-1/8"	2...1-3/8"	4...1-1/8"	2...1-5/8"	
	Condensate drain dia.		3/4"	3/4"	1"	3/4"	1"	1"	2"	2"	1-1/2"	1-1/2"	
	Condensate drain connection type		Female Pipe Thread								Male Pipe Thread		

Coil connection



Model Nomenclature

38LHU Model Nomenclature

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

Air cooled condensing unit
38LHU series

Unit size = 120, 150

0 = Revision 0
3 = 380V / 3Ph / 50Hz

S = Scroll compressor

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

X = Direct Expansion coil

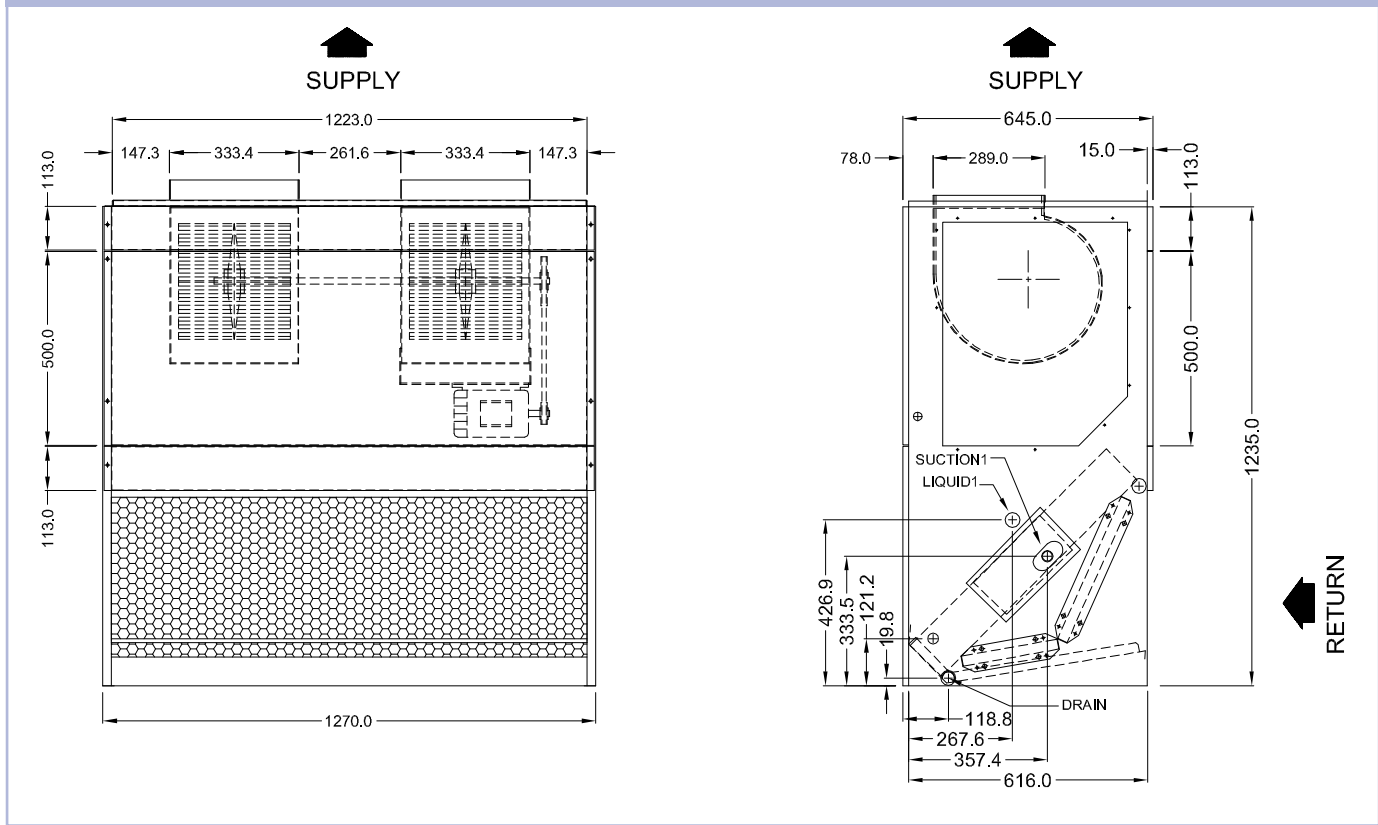
3 = 380V / 3Ph / 50Hz

Unit type
V = Vertical, H = Horizontal

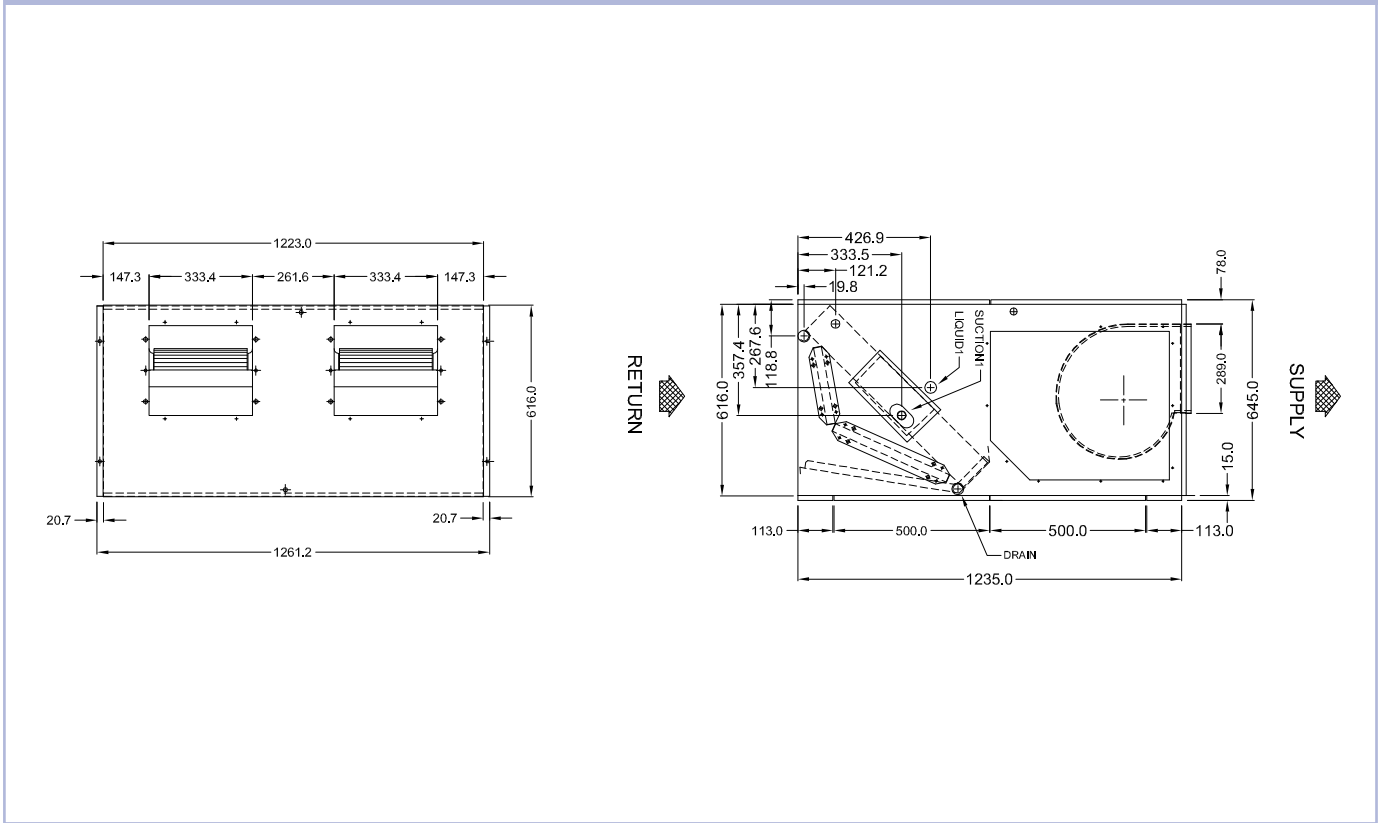
Coil connection :
R = Right, L = Left

0 = Revision 0

40RBU012 Vertical Type

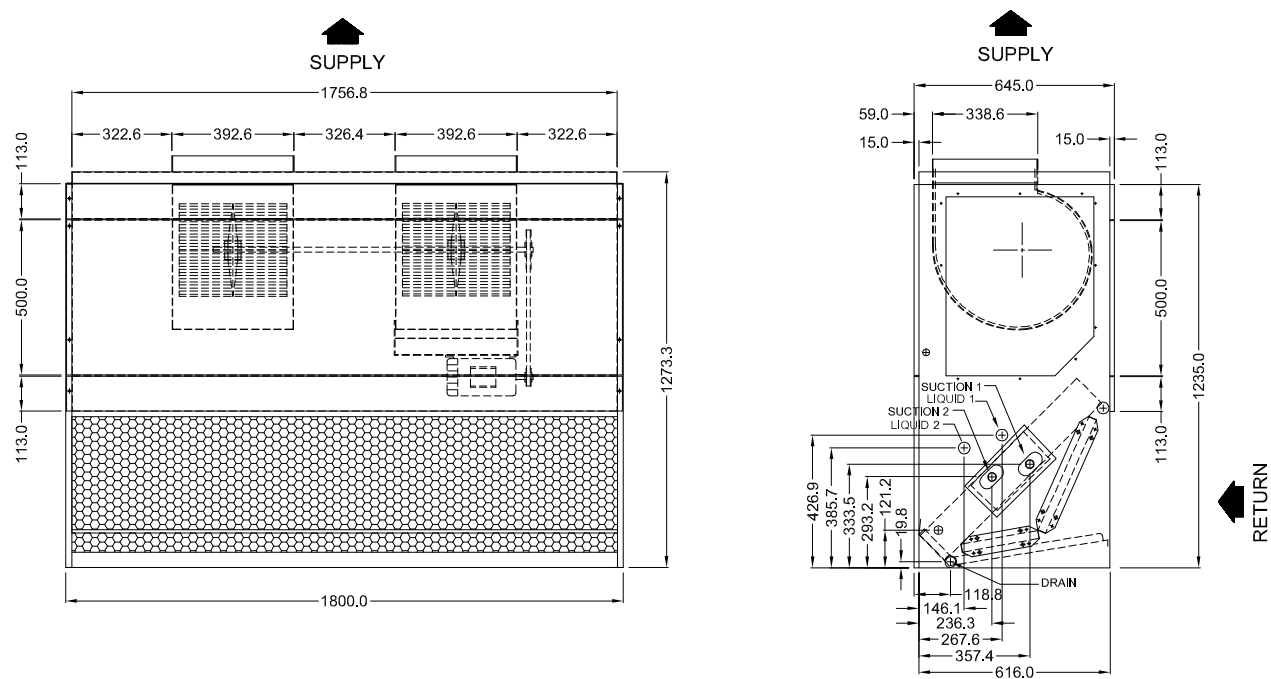


40RBU012 Horizontal Type

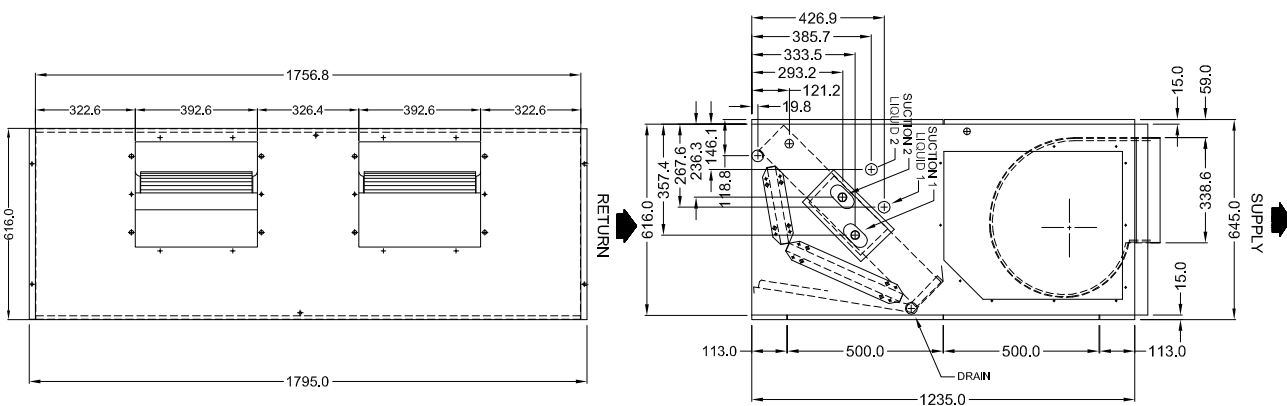


Unit dimensions

40RBU015 Vertical Type

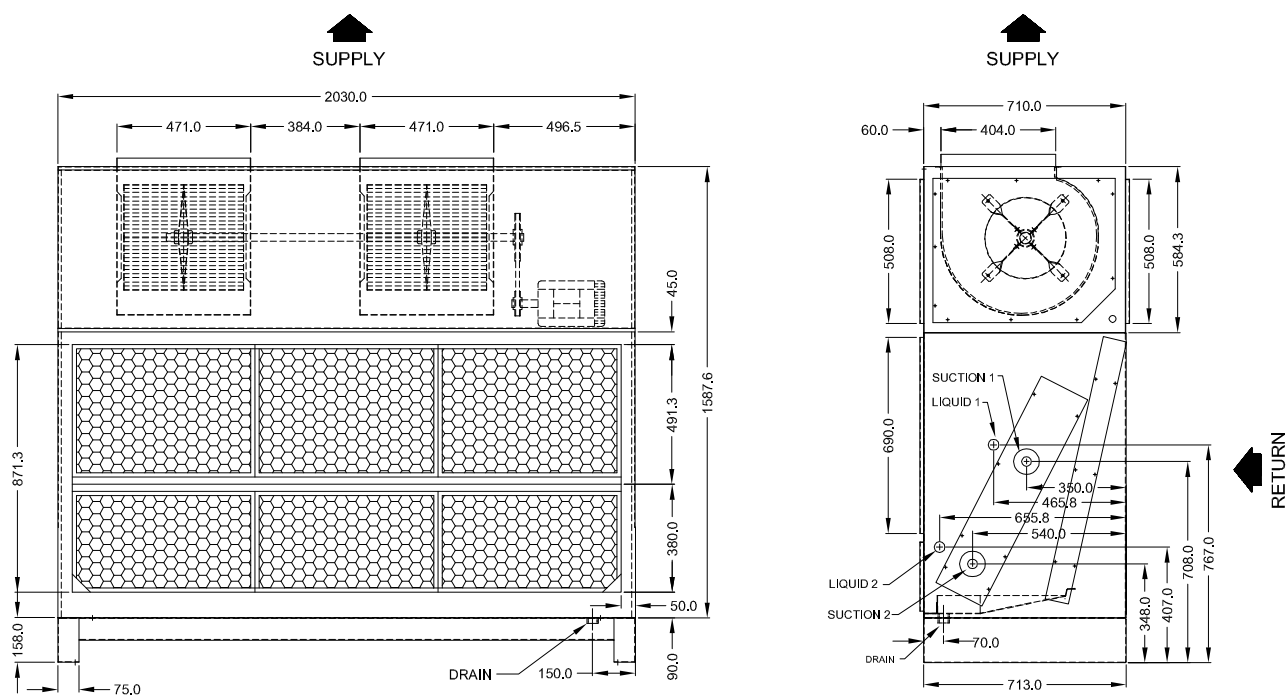


40RBU15 Horizontal Type

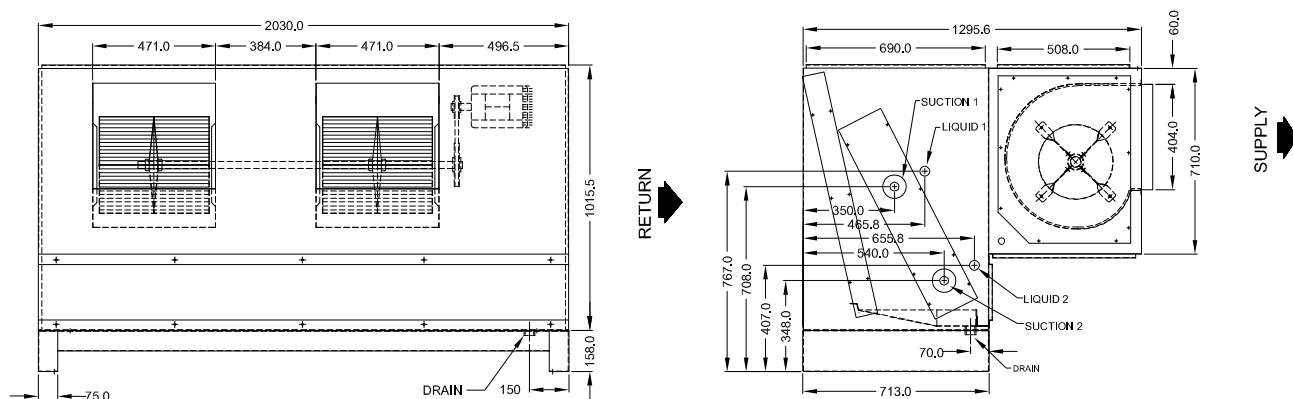


Unit dimensions

40RBU020, 025 Vertical Type

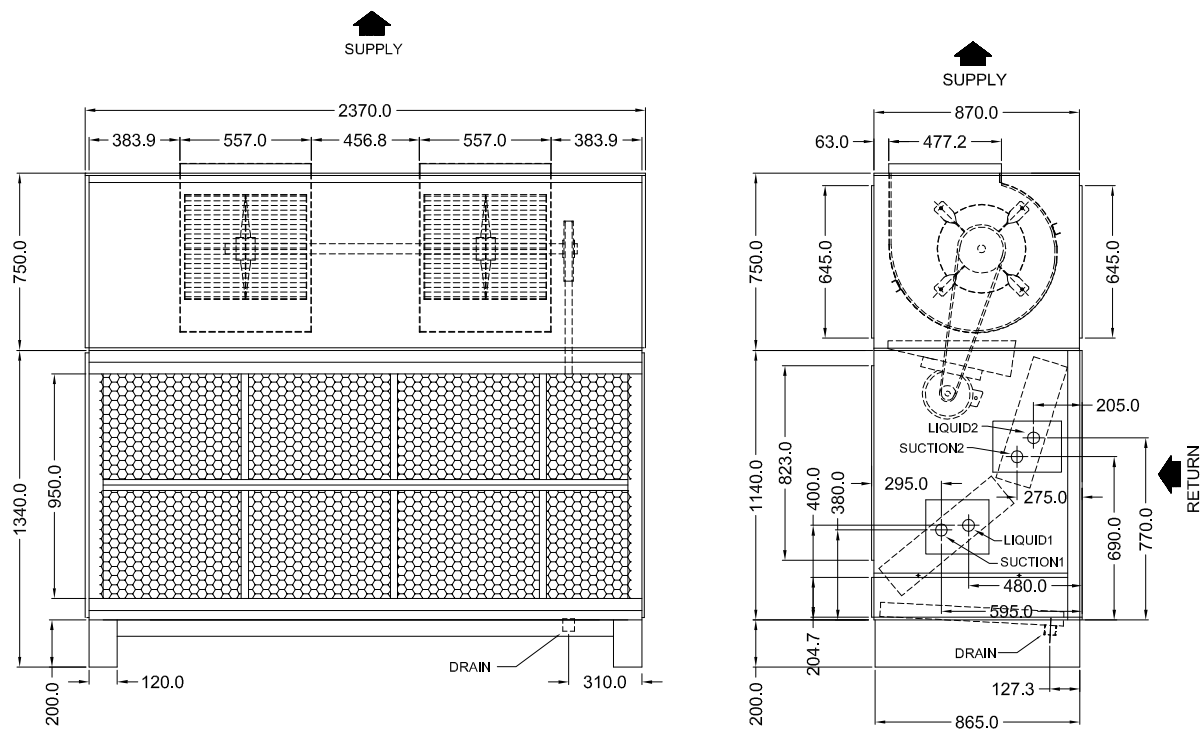


40RBU020, 025 Horizontal Type

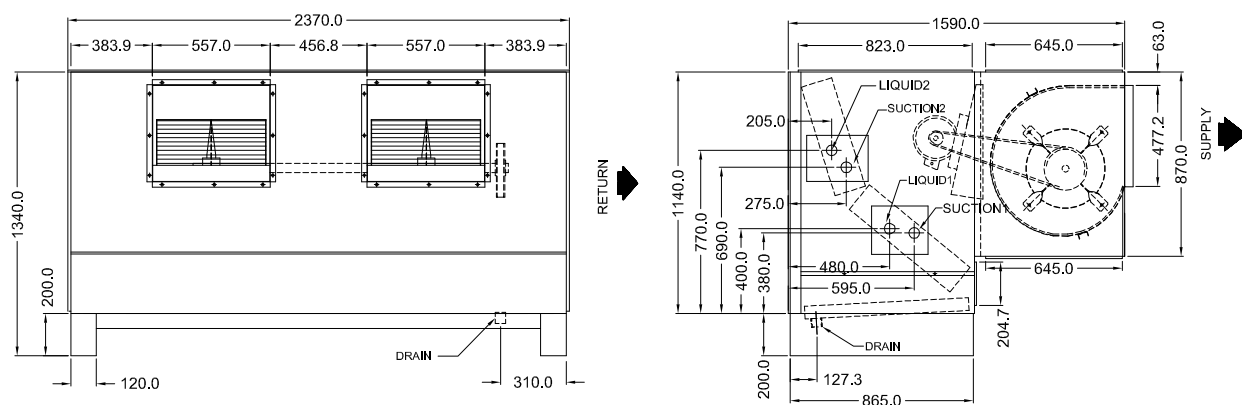


Unit dimensions

40RBU030, 040 Vertical Type

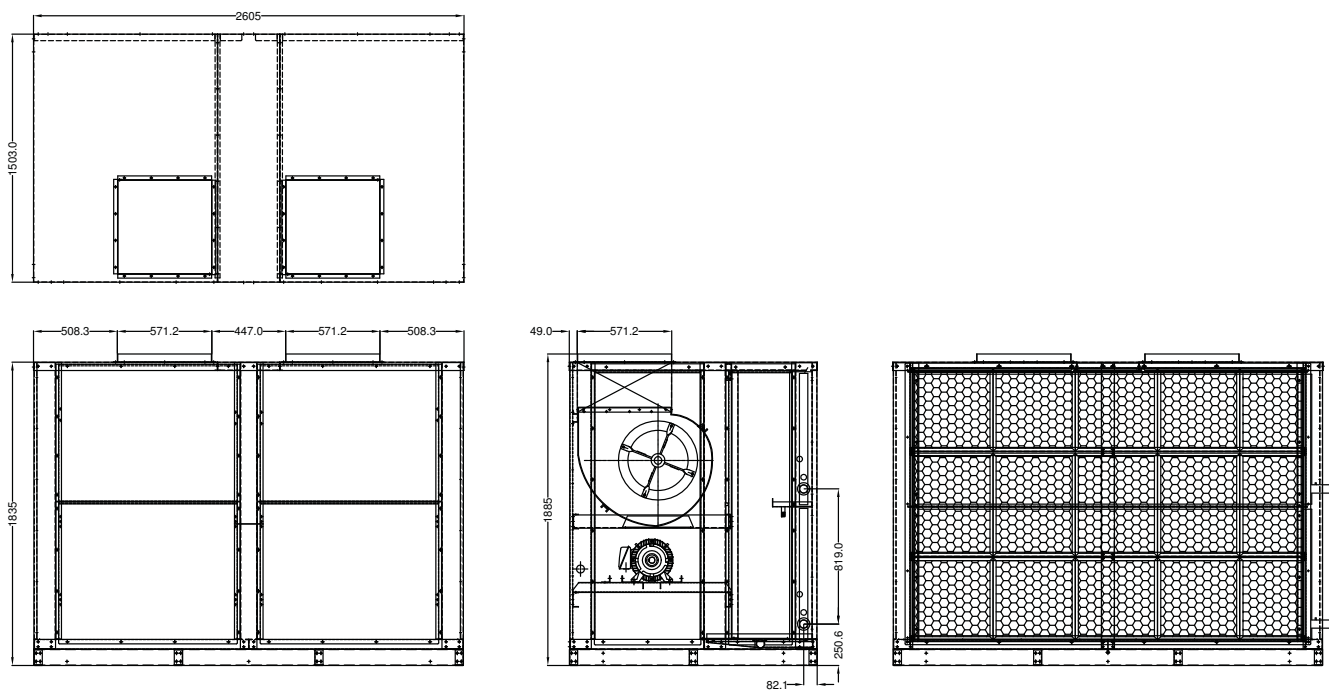


40RBU030, 040 Horizontal Type

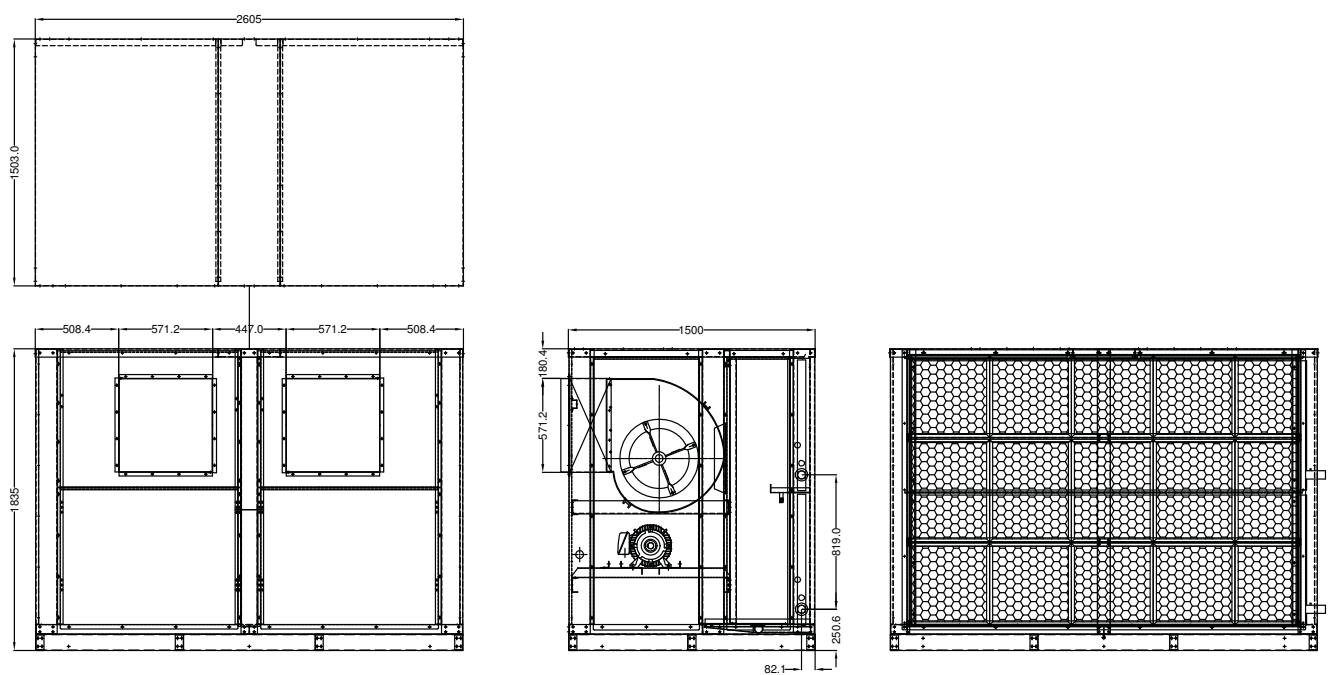


Unit dimensions

40RBU050 Vertical Type

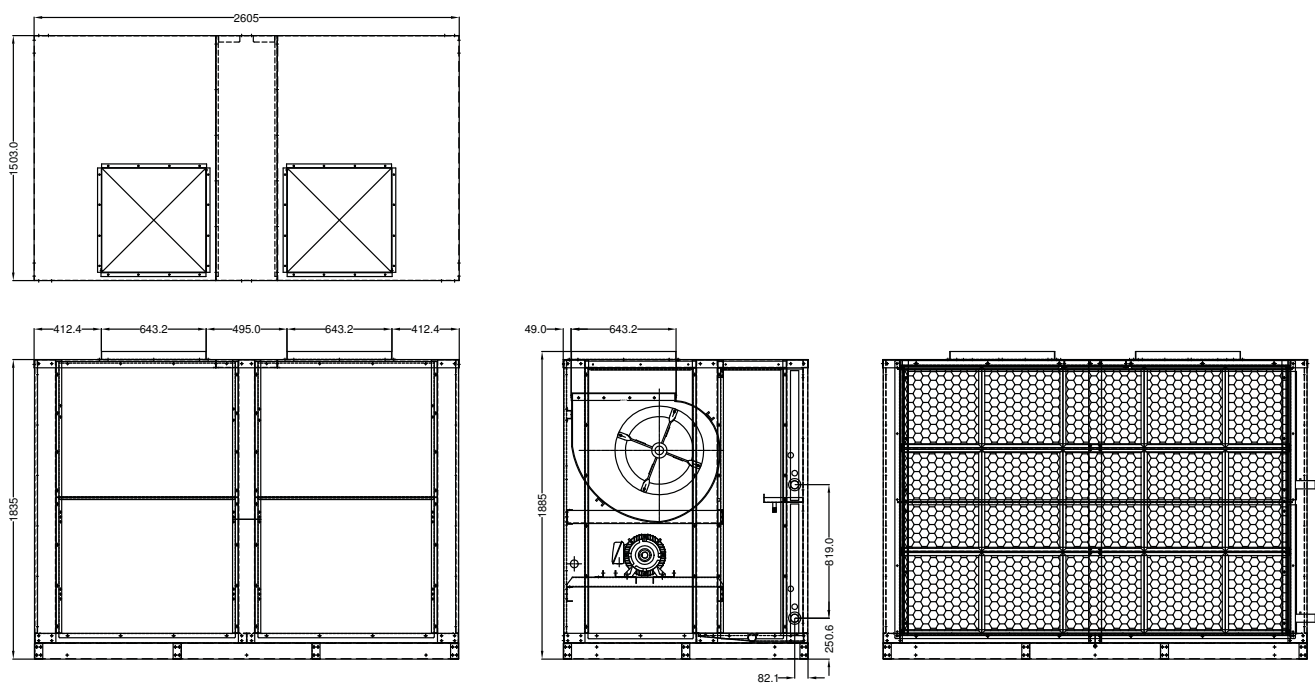


40RBU050 Horizontal Type

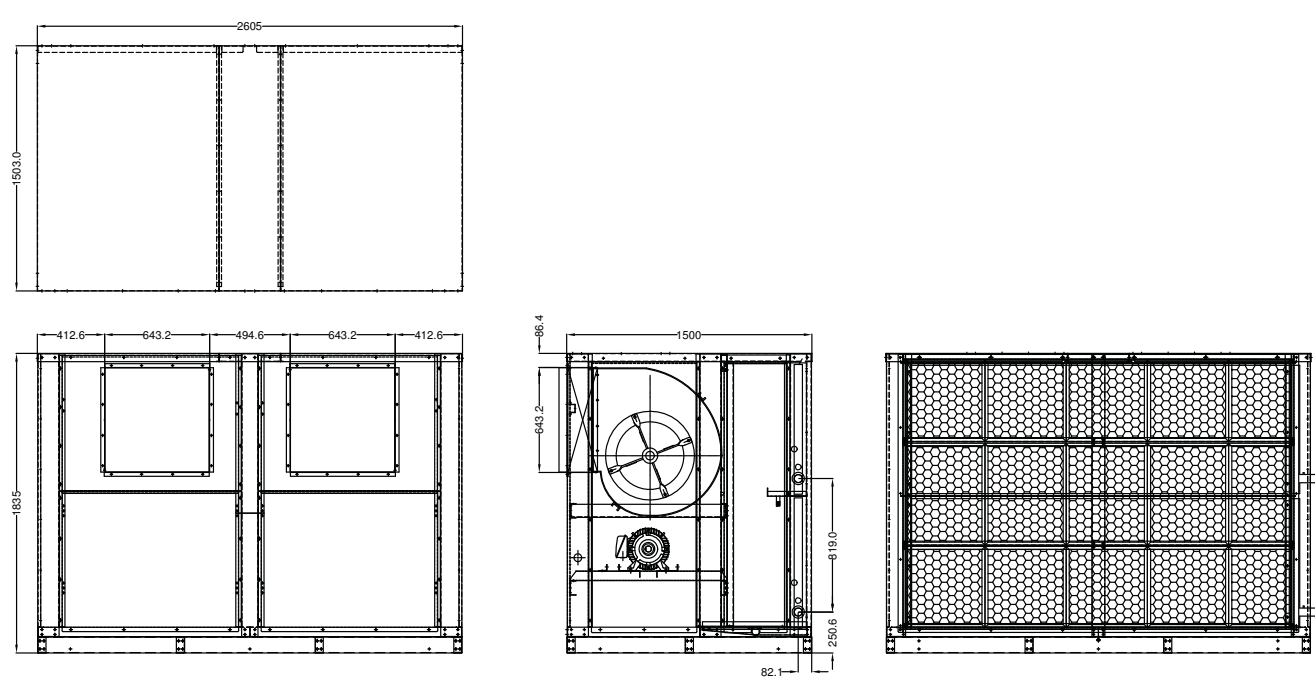


Unit dimensions

40RBU060 Vertical Type

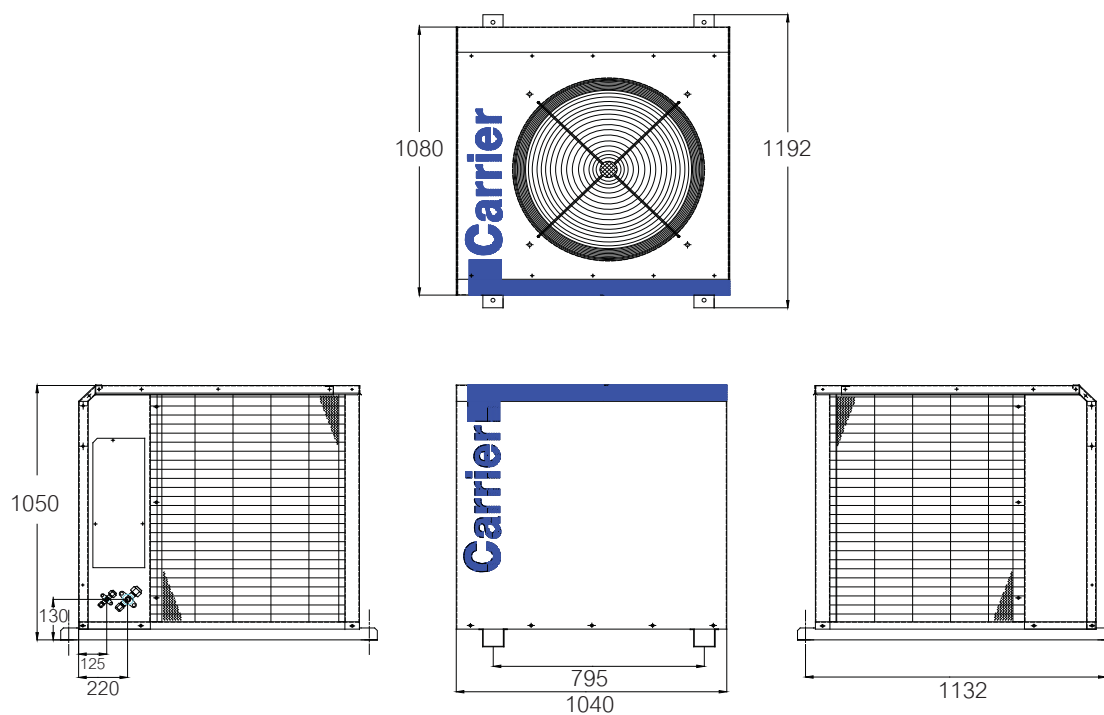


40RBU060 Horizontal Type

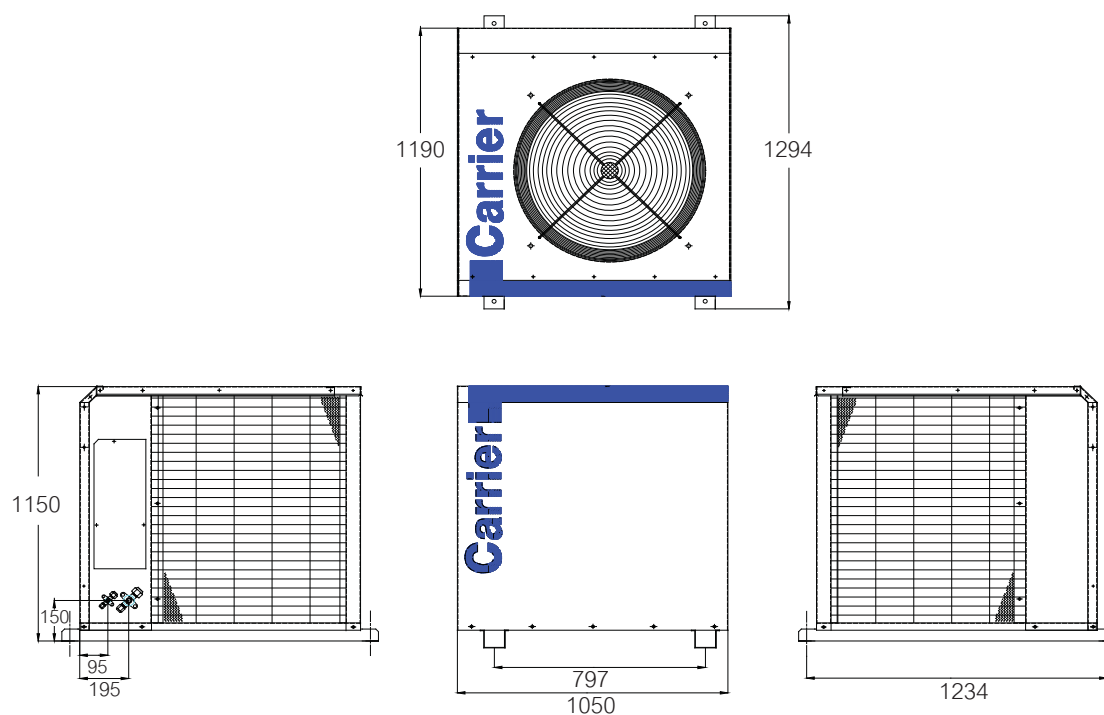


Unit dimensions

38LHU120S301

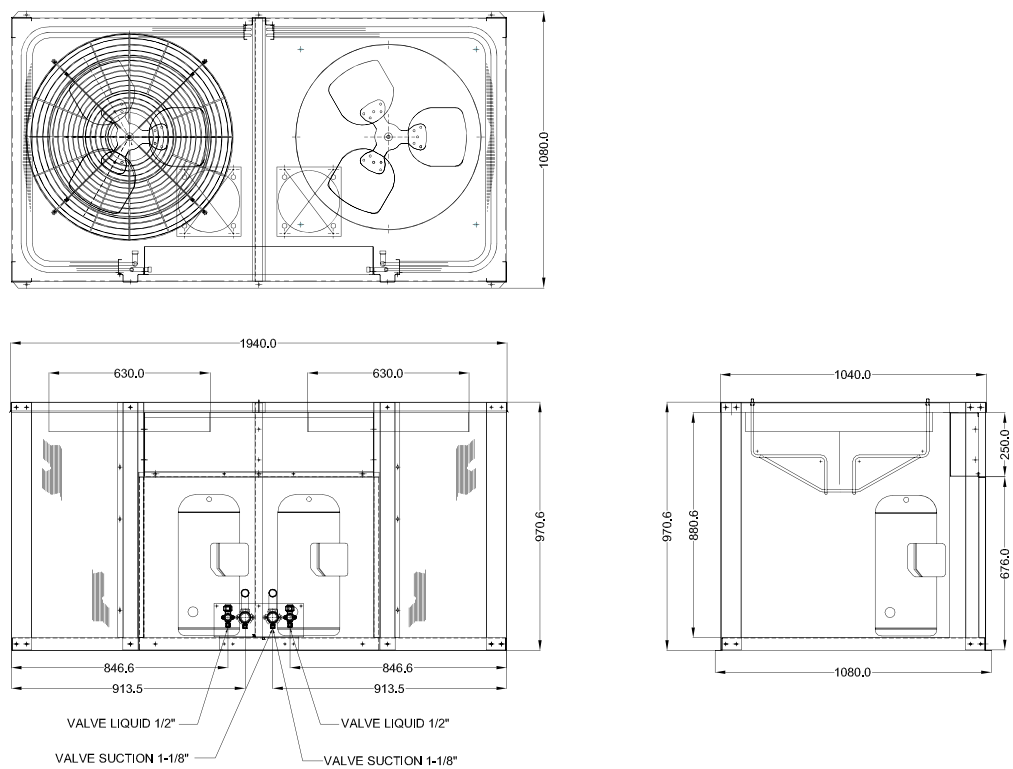


38LHU150S301

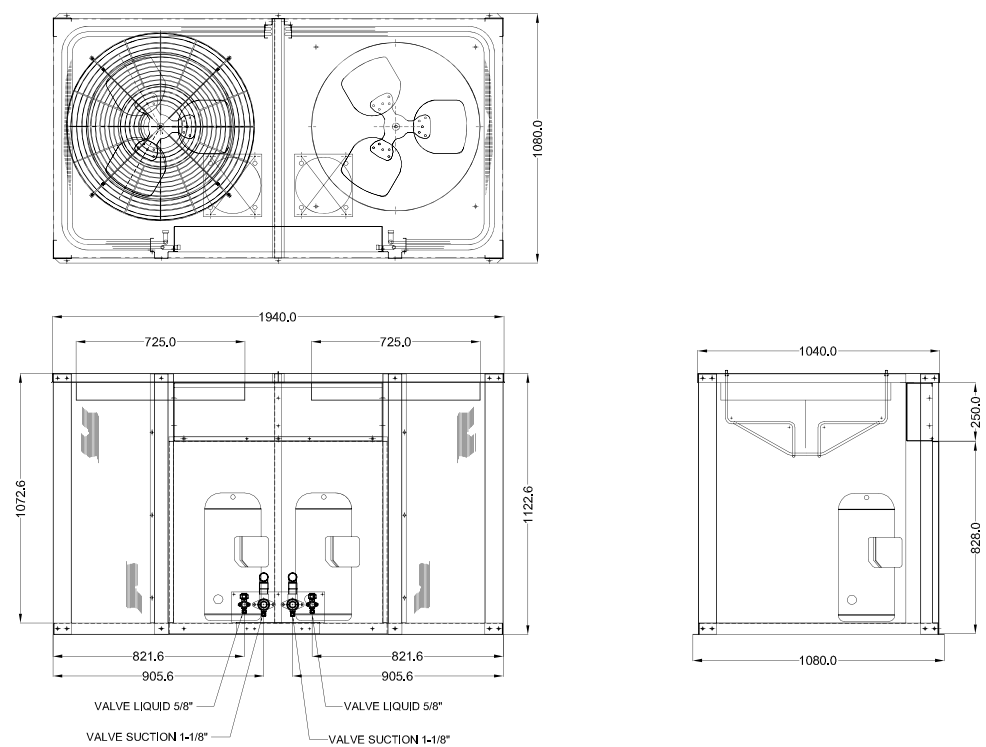


Unit dimensions

38ASU150-200S301

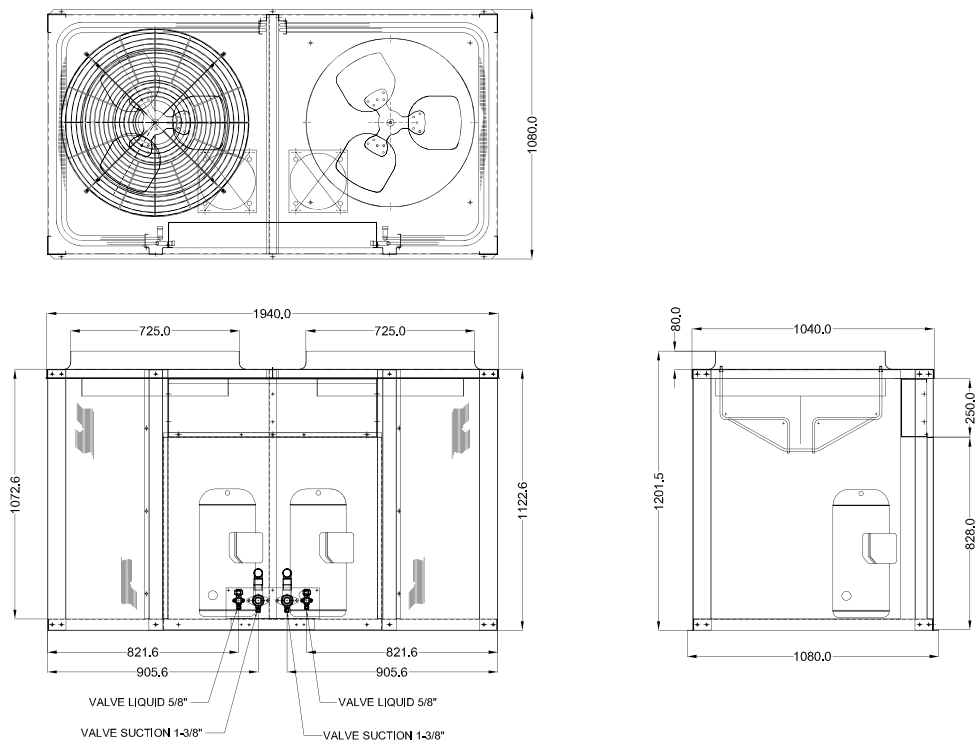


38ASU240S301

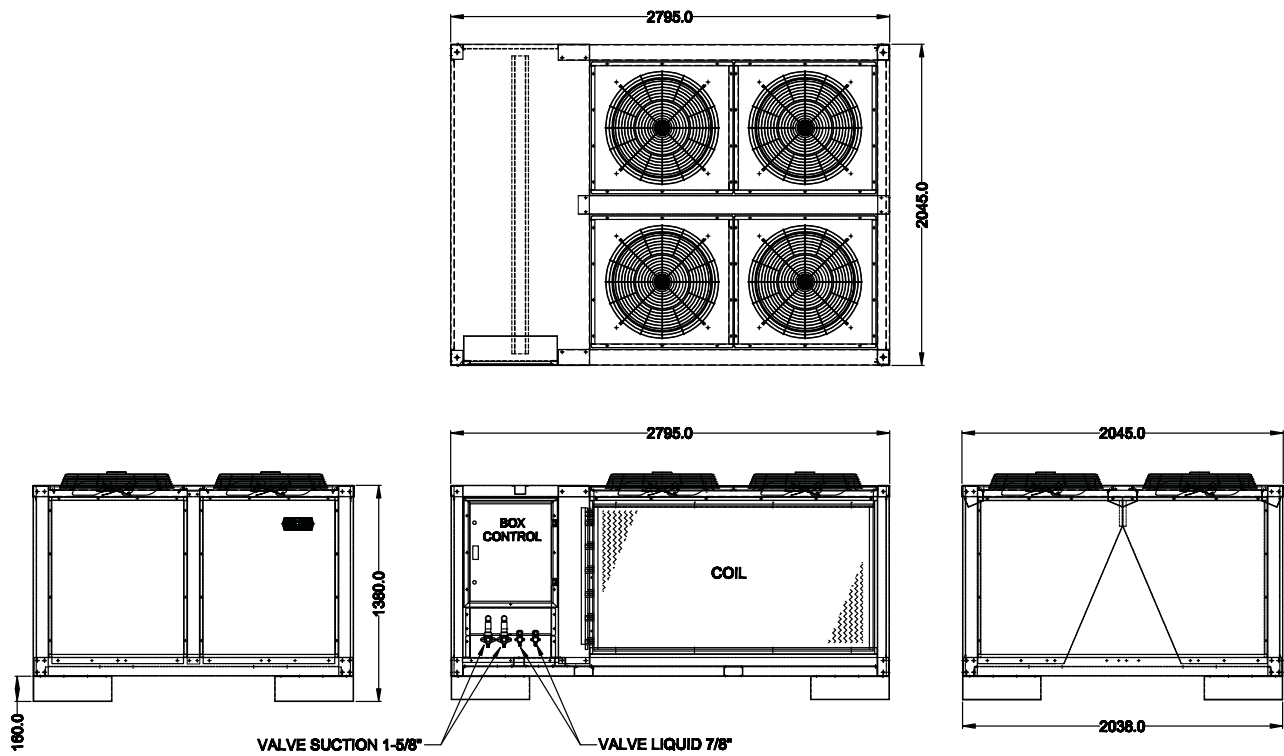


Unit dimensions

38ASU300S301

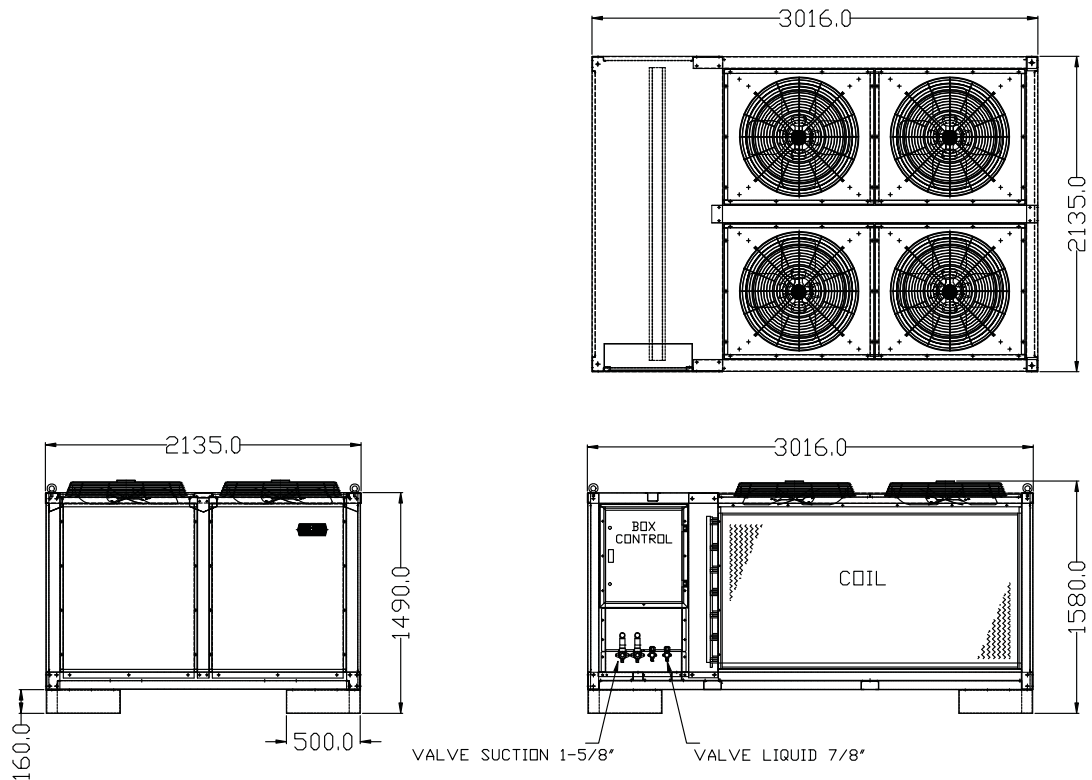


38ASU400S301



Unit dimensions

38ASU500-600S301



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