



40RBU / 38LHU, 38ASU Series

Air Handling Unit - Split System, R-410a

Nominal Capacity : 120,000-400,000 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 400,000 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

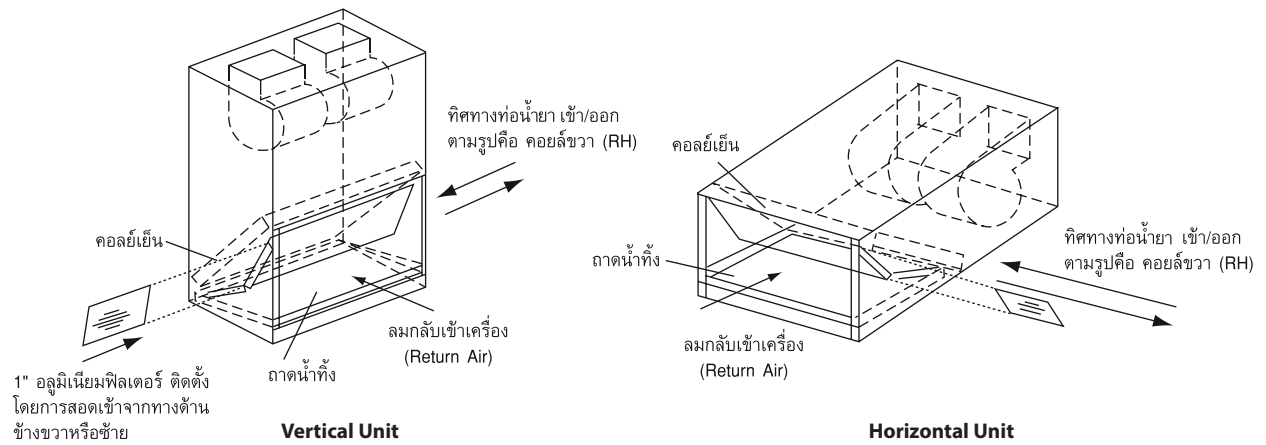


38ASU400S301

Physical data

Description		Model	CDU	38LHU		38ASU			
				120S301	150S301	150S301	200S301	240S301	300S301
		AHU		40RBU-X					
			012	015	015	020	025	030	040
Normal Capacity	Cooling Capacity *	btu/h	120,000	150,000	150,000	200,000	240,000	300,000	400,000
	Air Flowrate	cfm	4,000	5,400	5,400	7,500	8,600	10,700	13,000
Refrigerant			R-410a						
CDU									
Operating Weight		kg	260	295	390	450	480	510	950
Power Supply		V/Ph/Hz	380/3/50						
Power Consumption		W	11,130	13,380	13,590	17,840	22,260	26,760	33,270
Operating Current		Amp.	21.20	27.50	25.70	33.50	42.30	55.00	59.80
Dimension	Width	mm	1,040	1,050	1,940	1,940	1,940	1,940	2,050
	Height	mm	1,050	1,150	970	970	1,122	1,122	1,300
	Depth	mm	1,080	1,190	1,040	1,040	1,040	1,040	2,795
Condenser Coil	Coil Arrangement	row / fpi	2/18	2/18	2/15	2/15	2/15	2/18	4/18
	Coil / Fin Material		Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al
	No. of circuit		1	1	2	2	2	2	2
Compressor	Type		Scroll						
	No. of compressor(s)		1	1	2	2	2	2	2
	Capacity steps		0/100	0/100	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"	2...24"	2...24"	2...28"	2...28"	4...24"
	Fan motor power input	W	630	630	366	366	630	630	366
	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
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	1.00 x 2	1.00 x 2	1.50 x 2	2.00 x 2	2.00 x 2
Pipe Connection	Liquid pipe dia.	Q'ty...inch	1/2"	5/8"	2.....1/2 (Flare)	2.....1/2 (Flare)	2.....1/2 (Flare)	2.....5/8 (Flare)	2.....7/8 (Flare)
	Suction pipe dia.	Q'ty...inch	1-1/8"	1-1/8"	2.....7/8 (Flare)	2.....1-1/8 (Brazing)	2.....1-1/8 (Brazing)	2.....1-1/8 (Brazing)	2.....1-5/8 (Brazing)
AHU									
Operating Weight		kg	195	230	230	282	304	505	525
Power Supply		V/Ph/Hz	380/3/50						
Air Flowrate Range		cfm	3,400 - 4,100	4,400 - 5,400	4,400 - 5,400	6,100 - 7,600	7,000 - 8,600	8,600-10,800	10,500-13,100
Cooling Coil	Coil Arrangement	row / fpi	3/14	3/14	3/14	3/14	4/14	4/14	4/14
	Coil Face Area	sq.ft	8.35	10.91	10.91	15.23	17.39	21.72	26.30
	Coil / Fin Material		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...10	2...12	2...15
	No. of circuit		1	2	2	2	2	2	2
Fan	Fan Size	inch	10"x10"	12"x12"	12"x12"	15"x15"	15"x15"	18"x18"	18"x18"
	Fan Q'ty		2	2	2	2	2	2	2
	Standard speed	rpm	789	715	715	638	705	641	641
Motor	Standard motor size	hp	2	3	3	3	5	7.5	7.5
	Motor speed	rpm	1,420	1,430	1,430	1,430	1,410	1,435	1,435
	Motor range	hp	2 - 3	3 - 5	3 - 5	3 - 5	3 - 5	7.5 - 10	7.5 - 10
Accessories	Fan Pulley		225-18-25	250-18-30	250-18-30	280-18-30	250-18-30	280-28-35	280-28-35
	Motor Pulley		125-18-24	125-18-28	125-18-28	125-18-28	125-18-28	125-28-38	125-28-38
	Belt		B-48	B-54	B-54	B-44	B-41	B-72	B-72
	Belt Q'ty		1	1	1	1	1	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"	2...10"x22"x1"	3...16"x25"x1"	3...16"x25"x1"	2...16"x20"x2"	2...16"x20"x2"
	(Width x Height x Thickness)		1...16"x22"x1"	1...10"x25"x1"	1...10"x25"x1"	3...20"x25"x1"	3...20"x25"x1"	6...20"x25"x2"	6...20"x25"x2"
			1...16"x25"x1"	2...16"x22"x1"	2...16"x22"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...5/8"	2...5/8"
	Suction pipe dia.	Q'ty...inch	1 ... 1-1/8"	2...7/8"	2...7/8"	2...1-1/8"	2...1-1/8"	2...1-1/8"	2...1-3/8"
	Condensate drain dia.		3/4"	3/4"	3/4"	1"	1"	2"	2"
	Condensate drain connection type		Female 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

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

X = Direct Expansion coil

3 = 380V / 3Ph / 50Hz

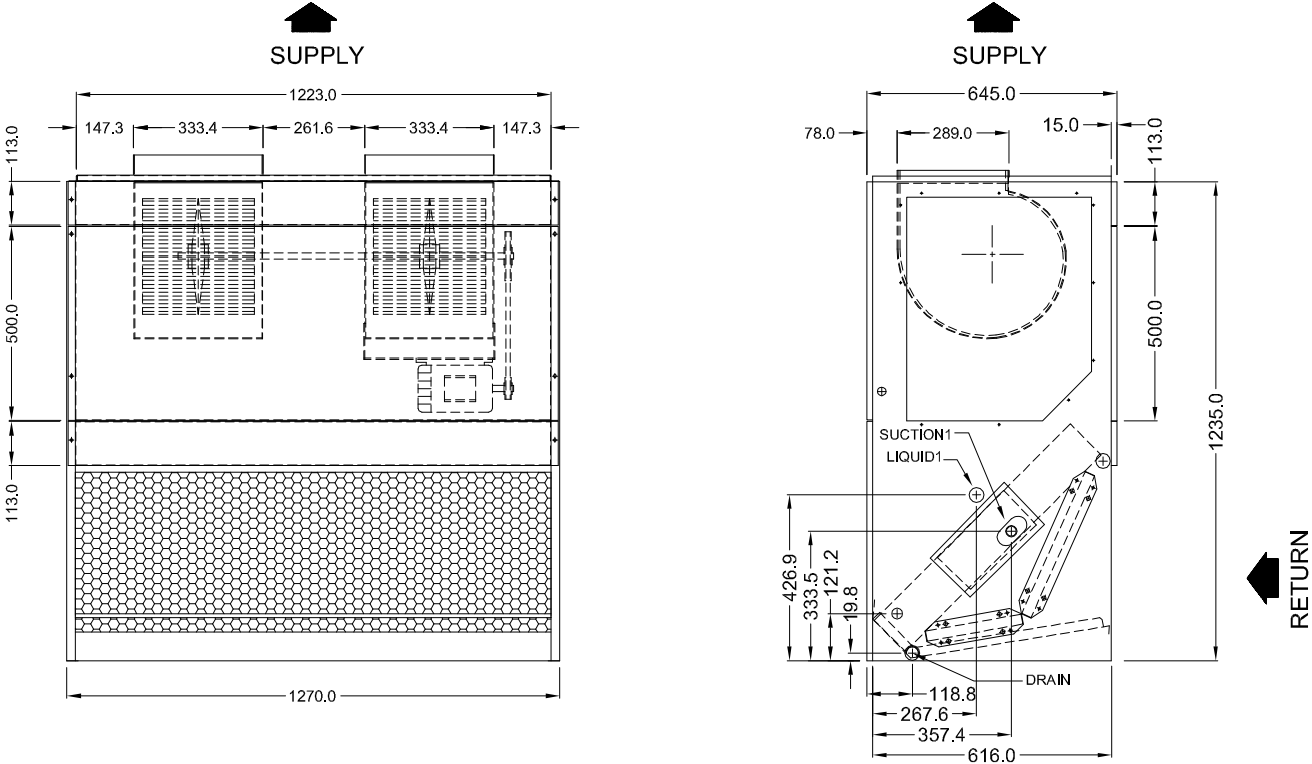
Unit type
V = Vertical, H = Horizontal

Coil connection :
R = Right, L = Left

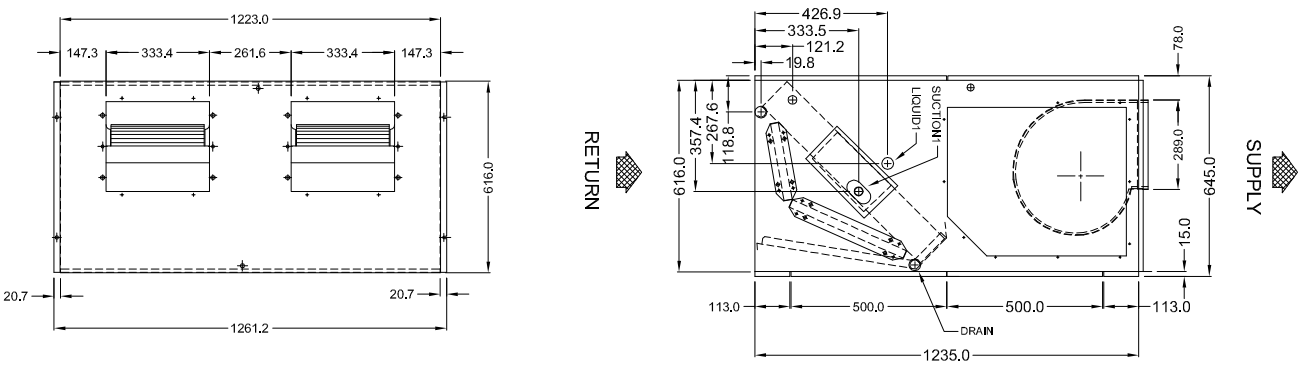
0 = Revision 0

Unit dimensions

40RBU012 Vertical Type

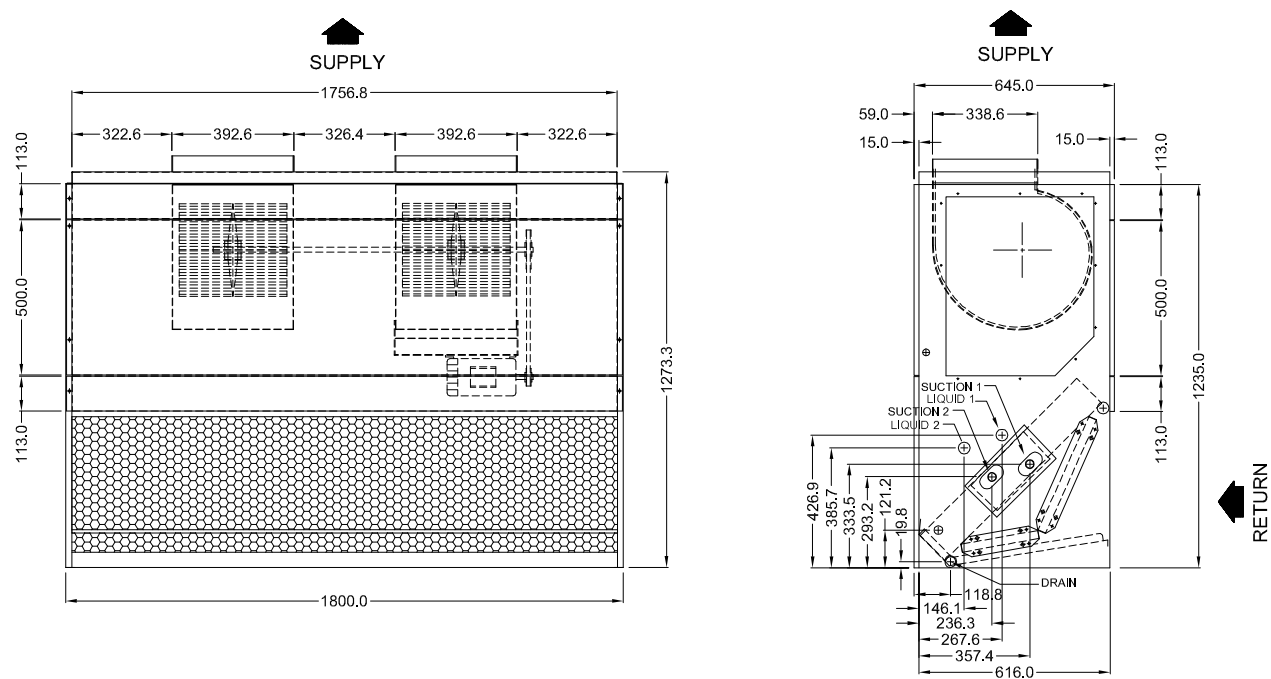


40RBU012 Horizontal Type

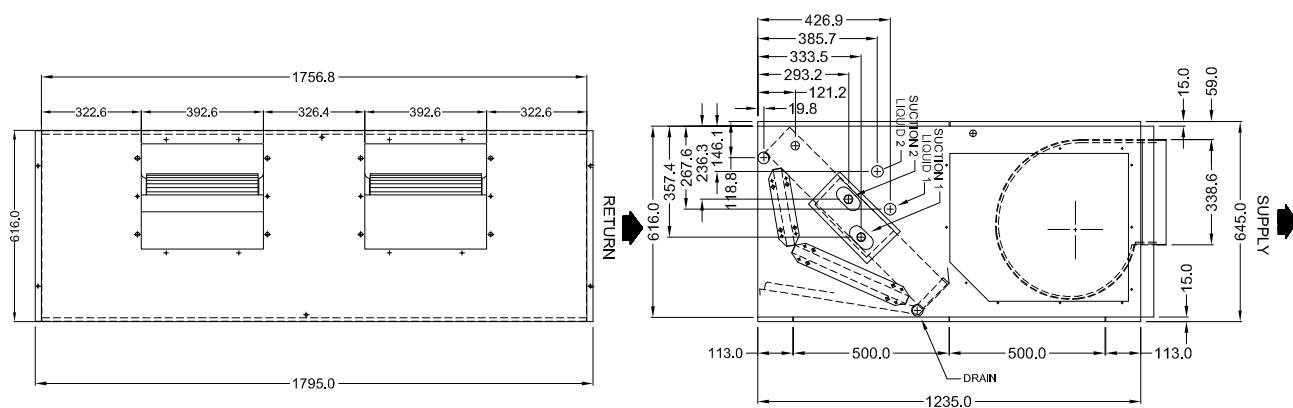


Unit dimensions

40RBU015 Vertical Type

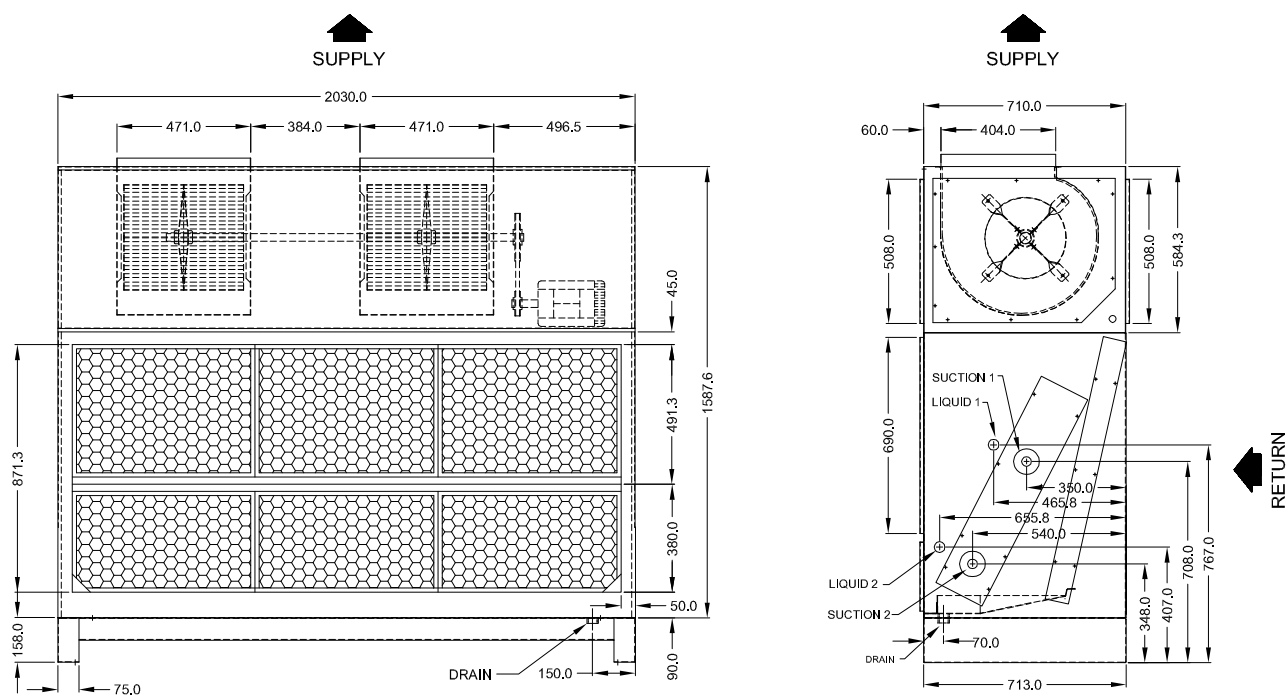


40RBU15 Horizontal Type

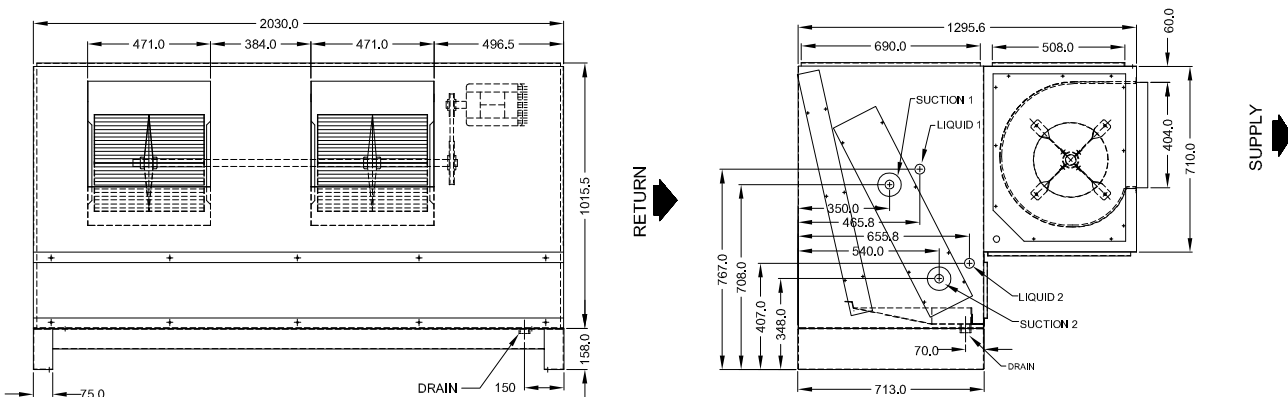


Unit dimensions

40RBU020, 025 Vertical Type

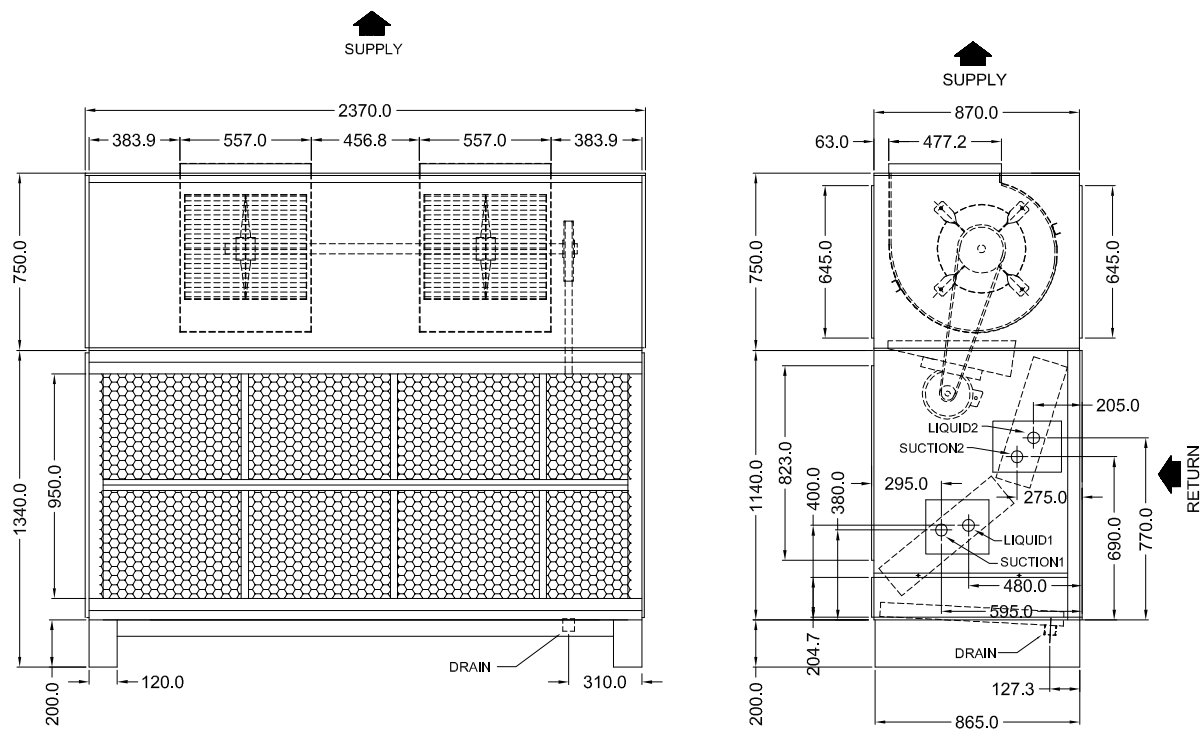


40RBU020, 025 Horizontal Type

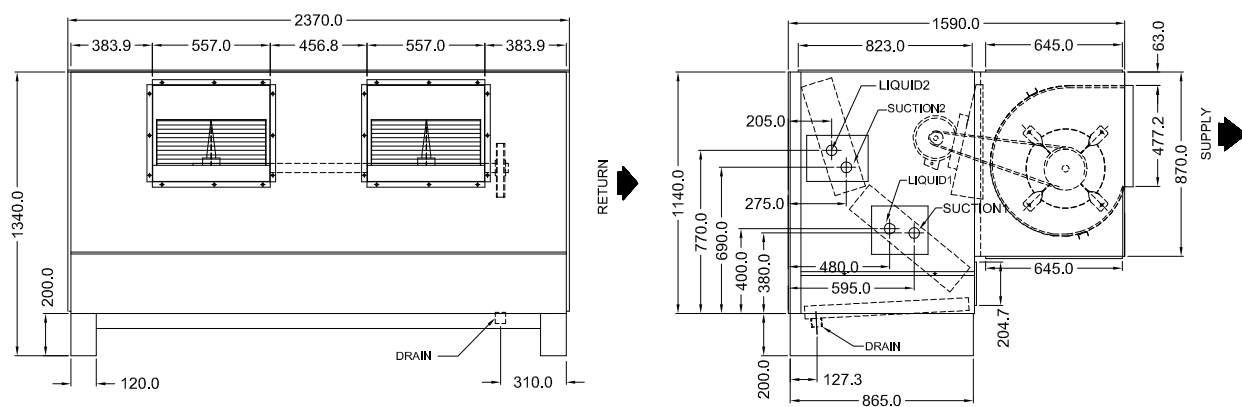


Unit dimensions

40RBU030, 040 Vertical Type

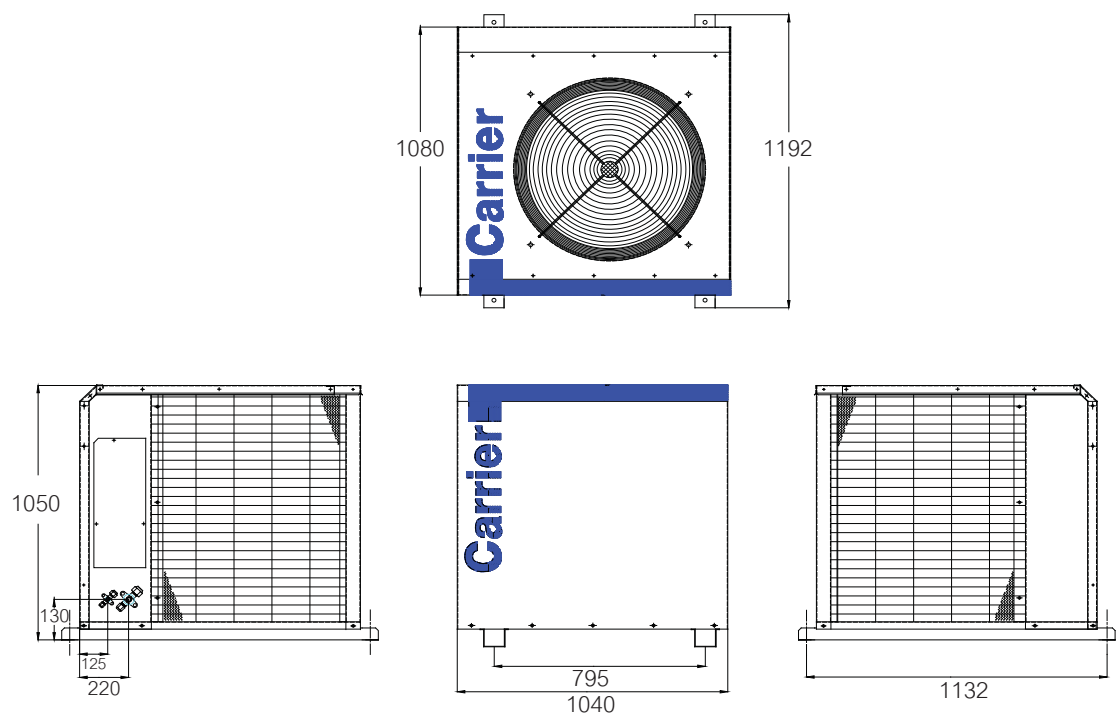


40RBU030, 040 Horizontal Type

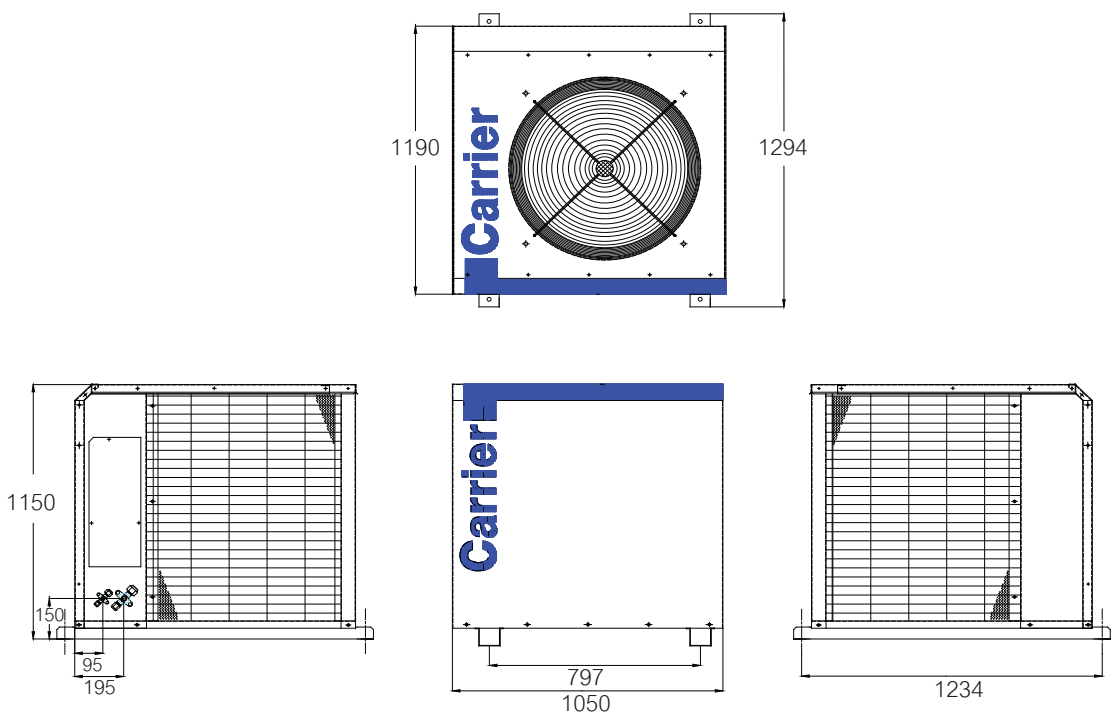


Unit dimensions

38LHU120S301

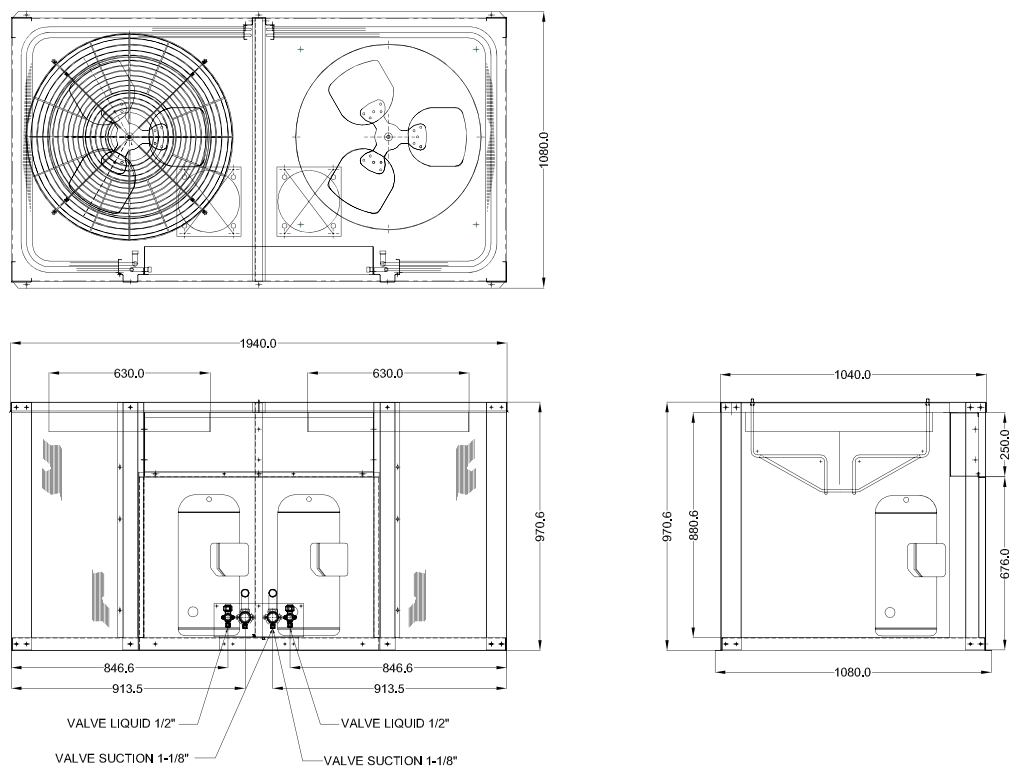


38LHU150S301

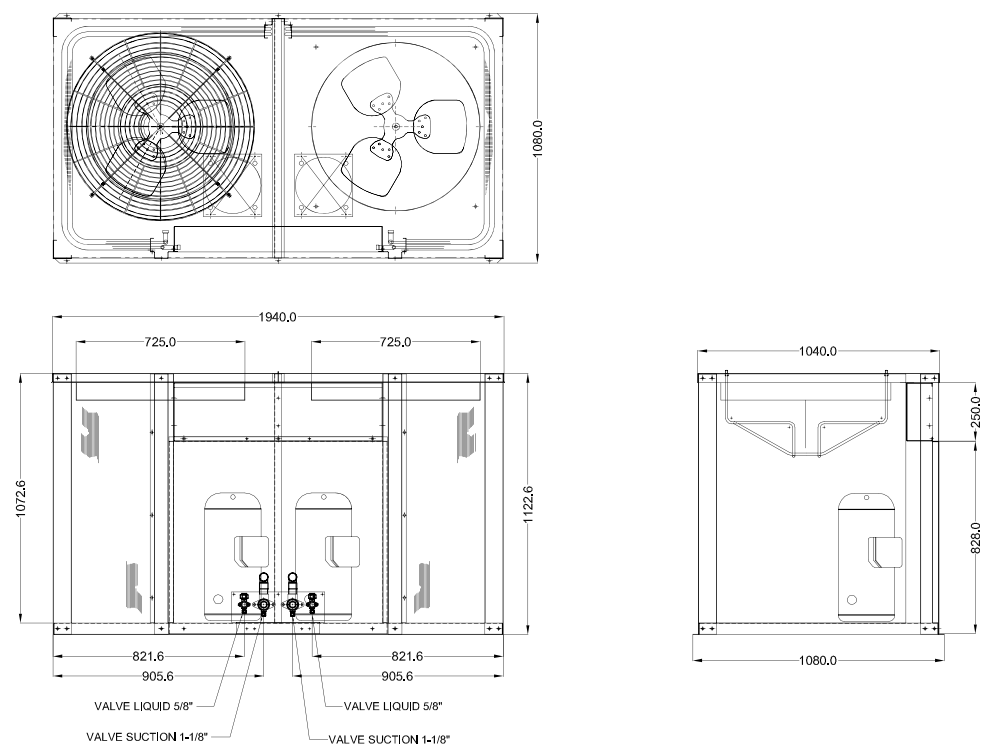


Unit dimensions

38ASU150, 200

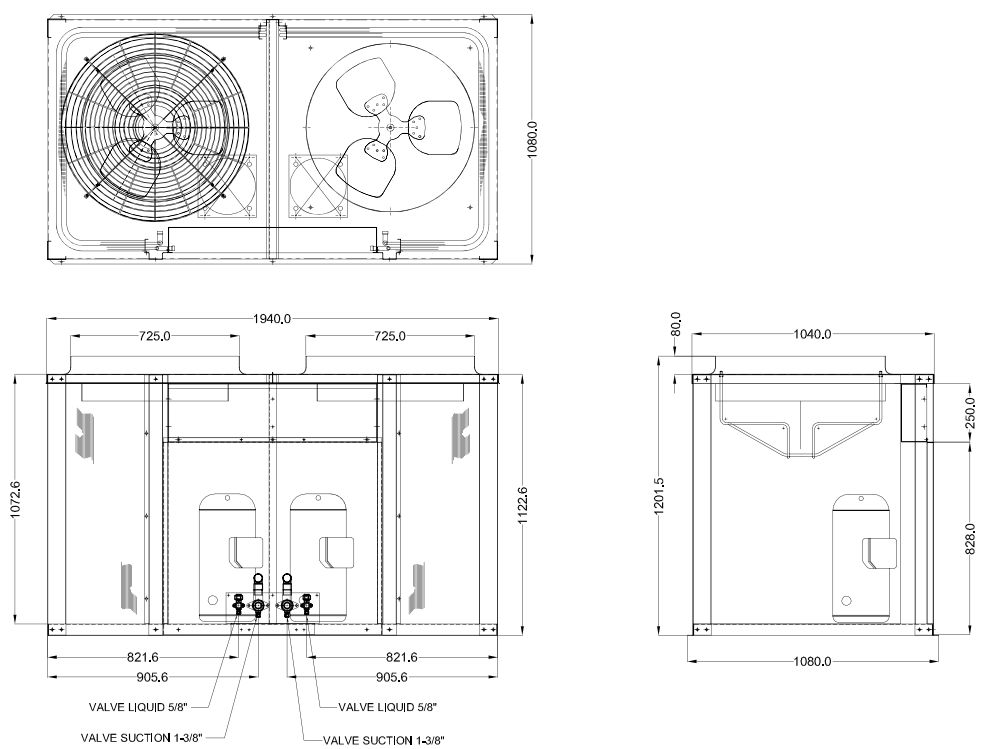


38ASU240

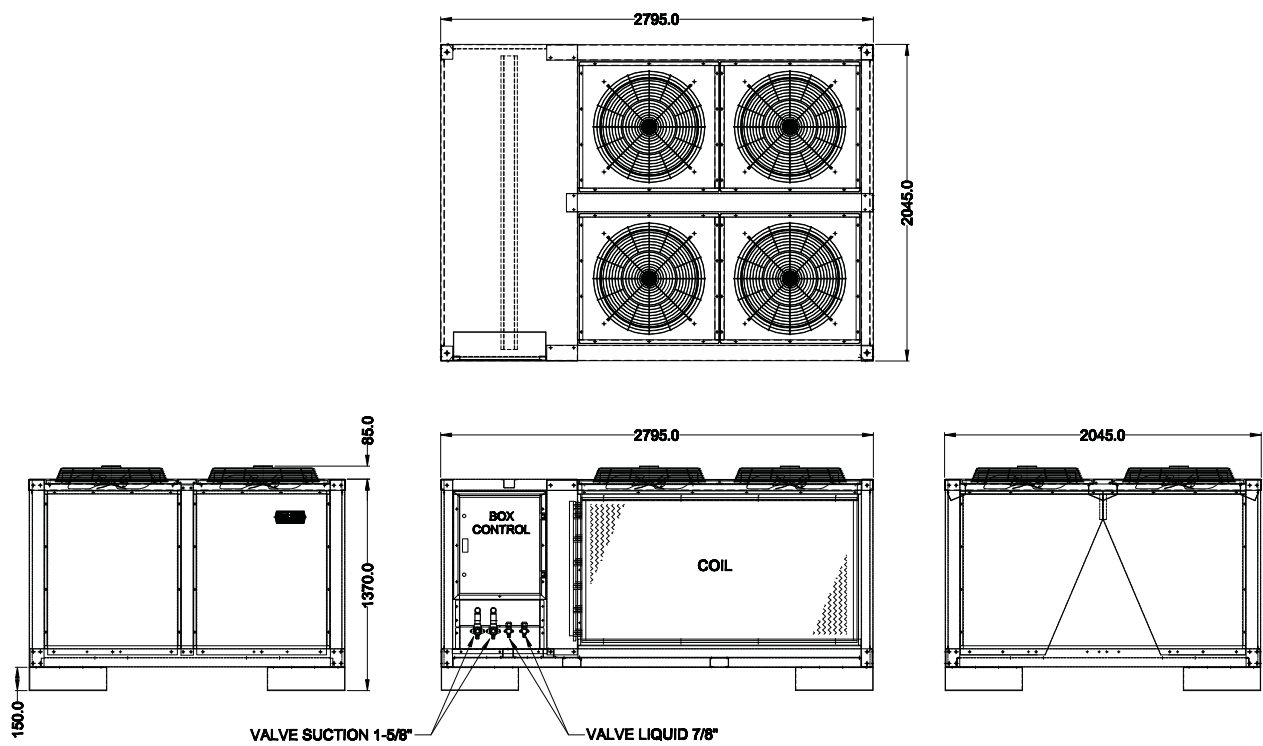


Unit dimensions

38ASU300



38ASU400





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