Carrier



40RBU / 38LHU, 38ASU Series

Air Handing Unit - Split System, R-410a

Nominal Capacity : 120,000-800,000 Btuh



40RBU Series



These air hardling 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 120,000 to 800,000 btu/hr.

Slim proportions (less than 910 mm. deep For 40RBU012 to 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



38LHU Series

38LHU, 38ASU Series

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



38ASU150S301-300S301

Features

- Fully hermetic Scroll compressor with high efficiency and reliability
- Reliable operation
- Flexible air discharge configuration (for 38LHU)
- Environment freindly with R-410a refigerant

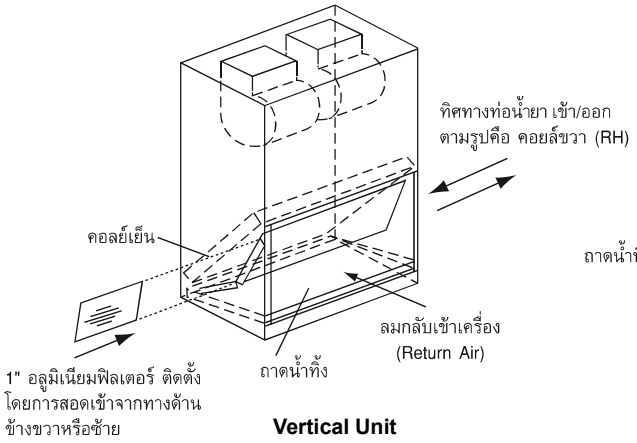


38ASU400S301-600S301

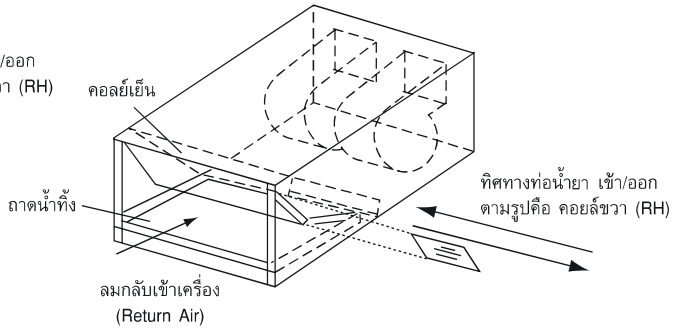
Physical data

Description		Model / CDU	38LHU			38ASU						
			120S301	150S301	200S301	200S301	240S301	300S301	400S301	500S301	600S301	2 x 400S301
		AHU	40RBU-X									
			012	015	020	020	025	030	040	050	060	080
Norminal Capacity	Cooling Capacity *	btu/h	120,000	150,000	200,000	200,000	240,000	300,000	400,000	500,000	600,000	800,000
	Air Flowrate	cfm	4,000	5,400	7,500	7,500	8,600	10,700	13,000	15,000	20,000	25,500
Refrigerant			R-410a									
CDU												
Operating Weight		kg	200	210	260	450	480	510	950	1,100	1,200	2 x 950
Power Supply		V/Ph/Hz	380/3/50									
Power Consumption		W	11,130	13,380	18,099	17,630	22,260	26,760	33,270	42,520	56,320	2 x 33,270
Operating Current		Amp.	21.20	27.50	32.40	33.30	42.30	55.00	59.80	79.10	100.50	2 x 59.8
Dimension	Width	mm	1,040	1,050	1,050	1,940	1,940	1,940	2,050	2,250	2,250	2,050
	Height	mm	1,050	1,150	1,150	970	1,122	1,122	1,300	1,420	1,420	1,300
	Depth	mm	1,192	1,294	11,294	1,040	1,040	1,040	2,795	3,020	3,020	2,795
Condenser Coil	Coil Arrangement	row / fpi	2/18	2/18	3/15	2/15	2/15	2/18	2/18	1.5/18	2/18	2/18
	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 x 2
Compressor	Type		Scroll									
	No. of compressor(s)		1	1	1	2	2	2	2	2	2	2 x 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	0/25/50/100
Condenser fan	Type		Propeller, Direct Drive									
	Q'ty.....Diameter	inch	1..28"	1..28"	1...30"	2..24"	2..28"	2..28"	4..24"	4..28"	4..28"	4..24"
	Fan motor power input	W	680	680	1,250	2x366	2x630	2x630	4x366	4x630	4x630	4x366
	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 Fact	kg. x Circuit	1.3 x 1	2.0 x 1	2.0 x 1	1.00 x 2	1.50 x 2	2.00 x 2	2.00 x 2	2.00 x 2	2.00 x 2	2.00 x 4
Pipe Connection	Liquid pipe dia.	Q'ty...inch	1/2"	5/8"	7/8"	2..1/2 (Flare)	2..1/2 (Flare)	2..5/8 (Flare)	2..7/8 (Flare)	2..7/8 (Flare)	2..7/8 (Flare)	4..7/8 (Flare)
	Suchtion pipe dia.	Q'ty...inch	1-1/8"	1-1/8"	1-3/8"	2..1-1/8 (Brazing)	2..1-1/8 (Brazing)	2..1-1/8 (Brazing)	2..1-3/8 (Brazing)	2..1-5/8 (Brazing)	2..1-5/8 (Brazing)	4..1-3/8 (Brazing)
AHU												
Operating Weight		kg	193	226	278	278	300	501	521	846	996	1,106
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	6,100 - 7,600	7,000 - 8,600	8,600-10,800	10,500-13,100	12,700-19,000	15,200-22,800	20,500-29,000
Cooling Coil	Coil Arrangement	row / fpi	3/14	3/14	3/14	3/14	4/14	4/14	4/14	3/15	4/15	4/15
	Coil Face Area	sq.ft	8.26	10.67	14.89	14.89	17.22	21.50	28.30	40.22	40.22	51.12
	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...10	2...12	2...15	2...20	2...25	4...16
	No. of circuit		1	1	2	2	2	2	2	2	2	4
Fan	Fan Size	inch	10"x10"	12"x12"	15"x15"	15"x15"	15"x15"	18"x18"	18"x18"	FDA450-SM2	FDA500-SM2	FDA500-SM2
	Fan Q'ty		2	2	2	2	2	2	2	2	2	2
	Standard speed	rpm	789	715	638	638	705	641	641	630	630	720
Motor	Standard motor size	hp	2	3	3	3	5.5	7.5	7.5	10	15	20
	Motor speed	rpm	1,450	1,450	1,450	1,450	1,450	1,450	1,450	1,450	1,450	1,450
	Motor range	hp	2 - 3	3 - 5	3 - 5	3 - 5.5	3 - 5.5	7.5 - 10	7.5 - 10	10 - 15	10 - 15	15 - 20
Accessories	Fan Pulley		225-1B-25	250-1B-30	280-1B-30	280-1B-30	250-1B-30	280-2B-35	280-2B-35	400-2B-40 (Taper Bush)	400-2B-40 (Taper Bush)	400-3B-40 (Taper Bush)
	Motor Pulley		125-1B-24	125-1B-28	125-1B-28	125-1B-28	125-1B-28	125-2B-38	125-2B-38	180-2B-38 (Taper Bush)	180-2B-42 (Taper Bush)	200-3B-42 (Taper Bush)
	Belt		B-49	B-54	B-44	B-44	B-41	B-72	B-72	H = B-93 , V = B-99	H = B-94 , V = B-100	H = B-96 , V = B-101
	Belt Q'ty		1	1	1	1	1	2	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 (Width x Height x Thickness)	inch	1...10"x22"x1" 1...16"x22"x1" 1...16"x25"x1" 1...10"x25"x1"	2...10"x22"x1" 1...10"x25"x1" 2...16"x22"x1" 1...16"x25"x1"	3...16"x25"x1" 3...20"x25"x1"	3...16"x25"x1" 3...20"x25"x1"	3...16"x25"x1" 3...20"x25"x1"	2...16"x20"x2" 6...20"x25"x2"	2...16"x20"x2" 6...20"x25"x2"	2...16"x20"x2" 4...20"x25"x2" 1...16"x25"x2" 8...20"x20"x2"	2...16"x20"x2" 4...20"x25"x2" 1...16"x25"x2" 8...20"x20"x2"	12...20"x20"x2" 6...20"x25"x2"
Pipe Connection	Liquid pipe dia.	Q'ty...inch	1 .. 5/8"	2...5/8"	2...5/8"	2...5/8"	2...5/8"	2...5/8"	2...5/8"	2...7/8"	2...7/8"	4...5/8"
	Suchtion pipe dia.	Q'ty...inch	1 .. 1-1/8"	2...7/8"	2...1-1/8"	2...1-1/8"	2...1-1/8"	2...1-1/8"	2...1-3/8"	2...1-5/8"	2...1-5/8"	4...1-3/8"
	Condensate drain dia.		3/4"	3/4"	1"	1"	1"	2"	2"	1-1/2"	1-1/2"	1-1/2"
	Condensate drain connection type		Female Pipe Thread							Male Pipe Thread		

Coil connection



Vertical Unit



Horizontal Unit

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 ur 38LHU series
- Unit size = 120, 150, 200
- S = Scroll compressor
- 3 = 380V / 3Ph / 50Hz
- 0 = Revision 0

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
- S = Scroll compressor, T = Scroll compressor (Tandem)
- 3 = 380V / 3Ph / 50Hz
- 0 = Revision 0

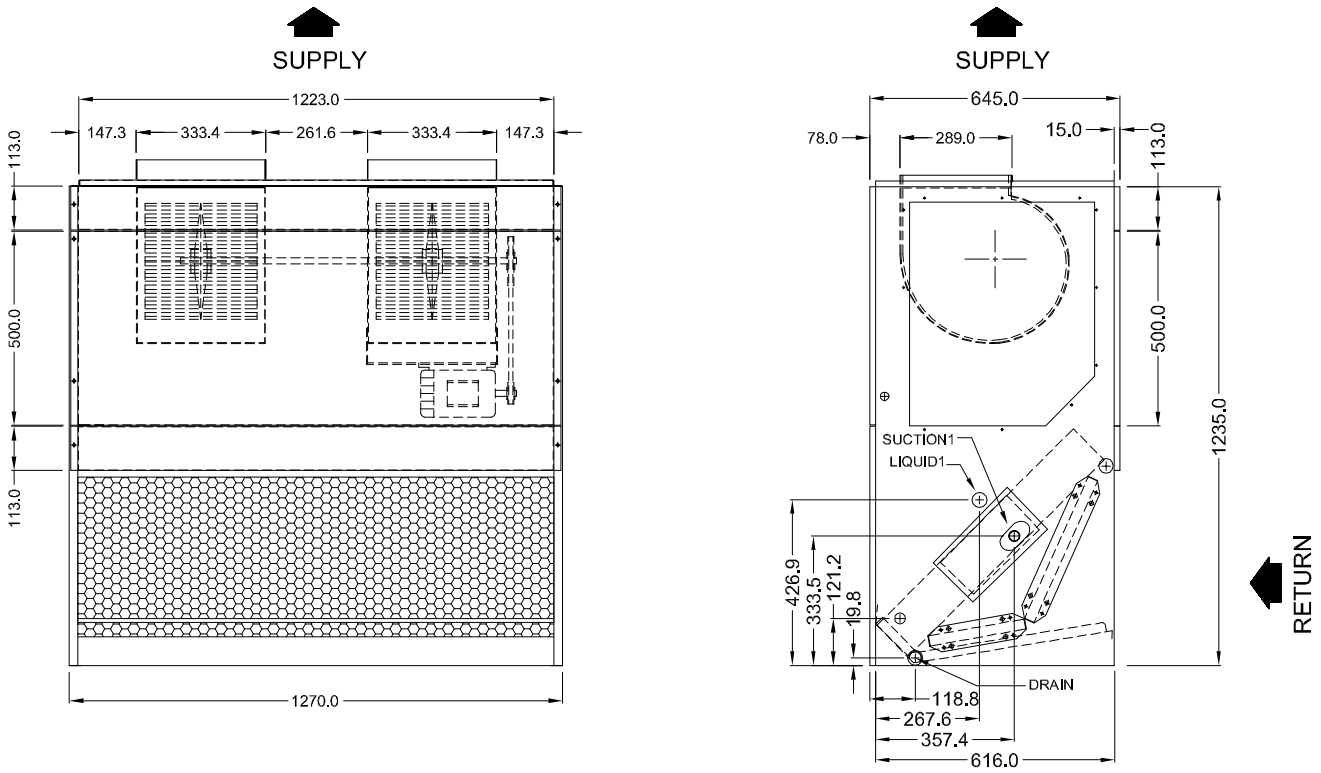
40RBU Model Nomenclature

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

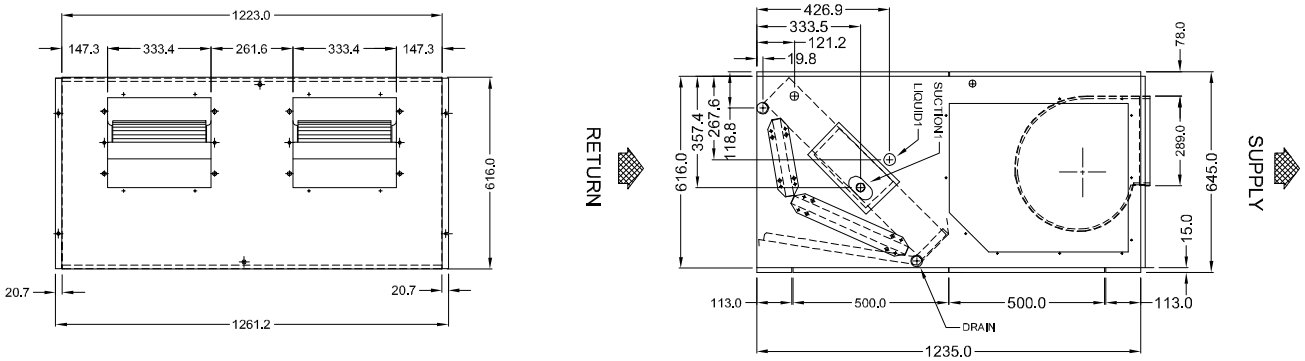
- Air Handling unit R410a 40RBU series
- Unit size = 012, 015, 020, 025, 030, 040, 050, 060, 080
- X = Direct Expansion coil
- 3 = 380V / 3Ph / 50Hz
- 0 = Revision 0
- Coil connection : R = Right, L = Left
- Unit type V = Vertical, H = Horizontal

Unit dimensions

40RBU012 Vertical Type

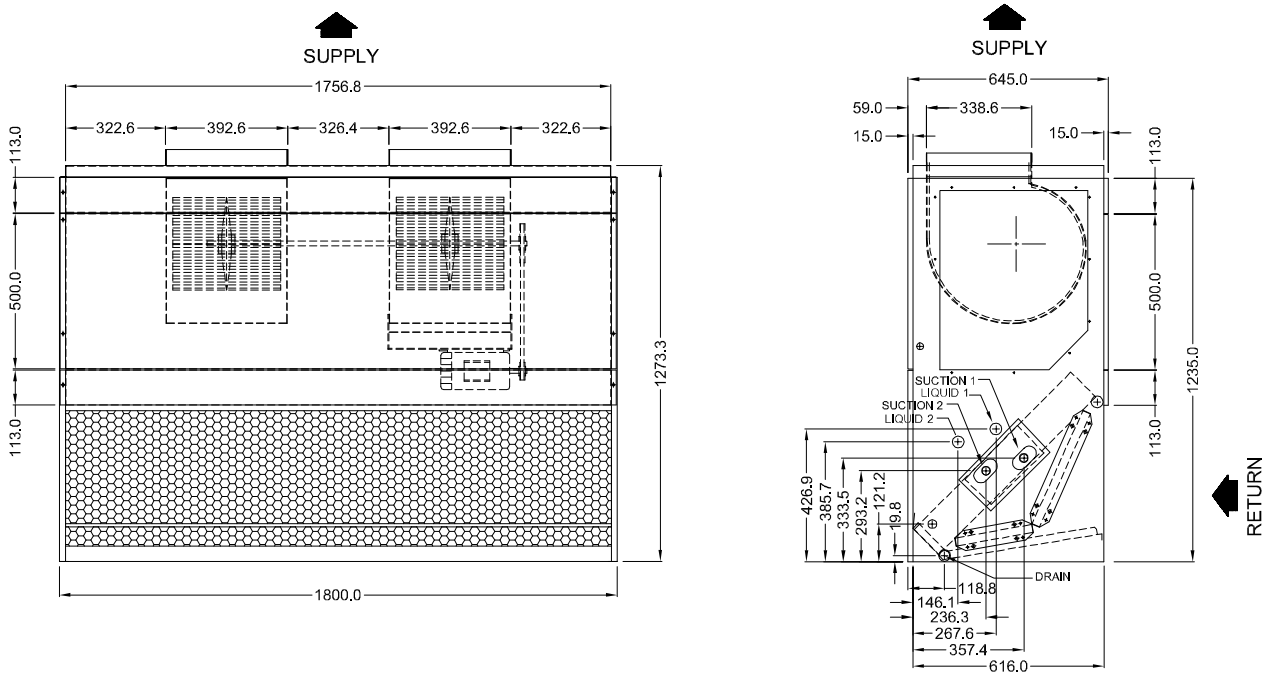


40RBU012 Horizontal Type

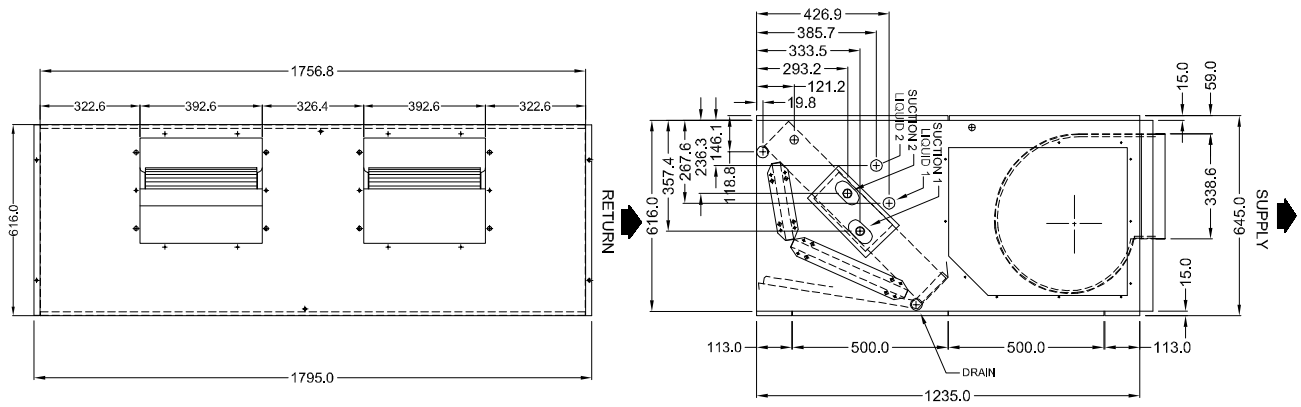


Unit dimensions

40RBU015 Vertical Type

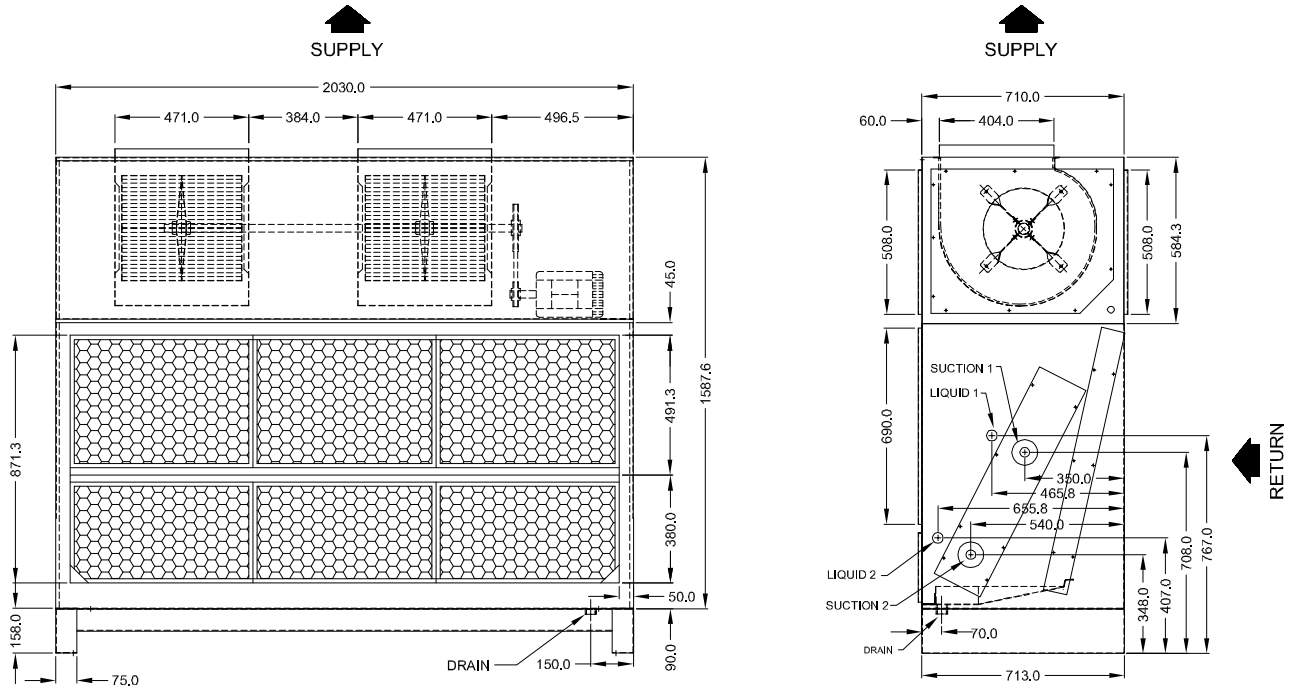


40RBU15 Horizontal Type

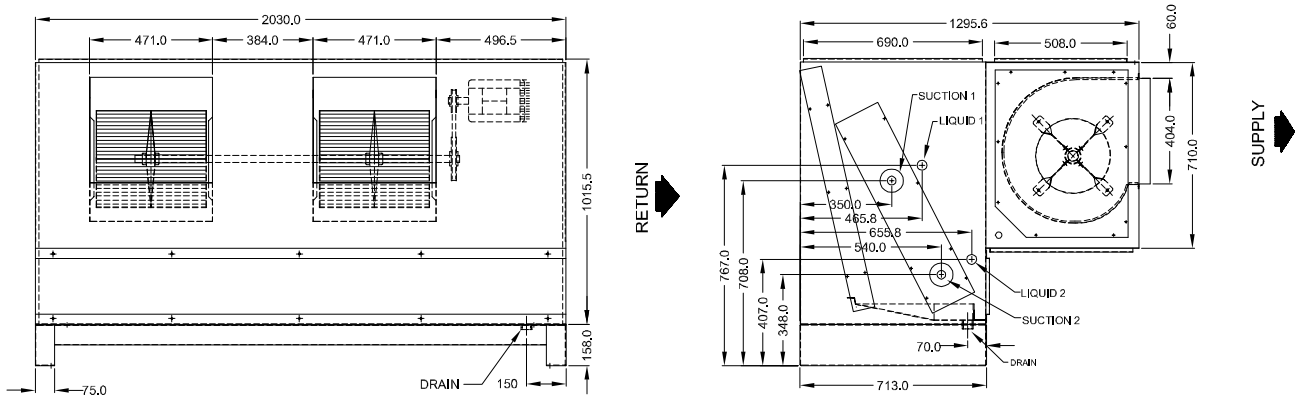


Unit dimensions

40RBU020, 025 Vertical Type

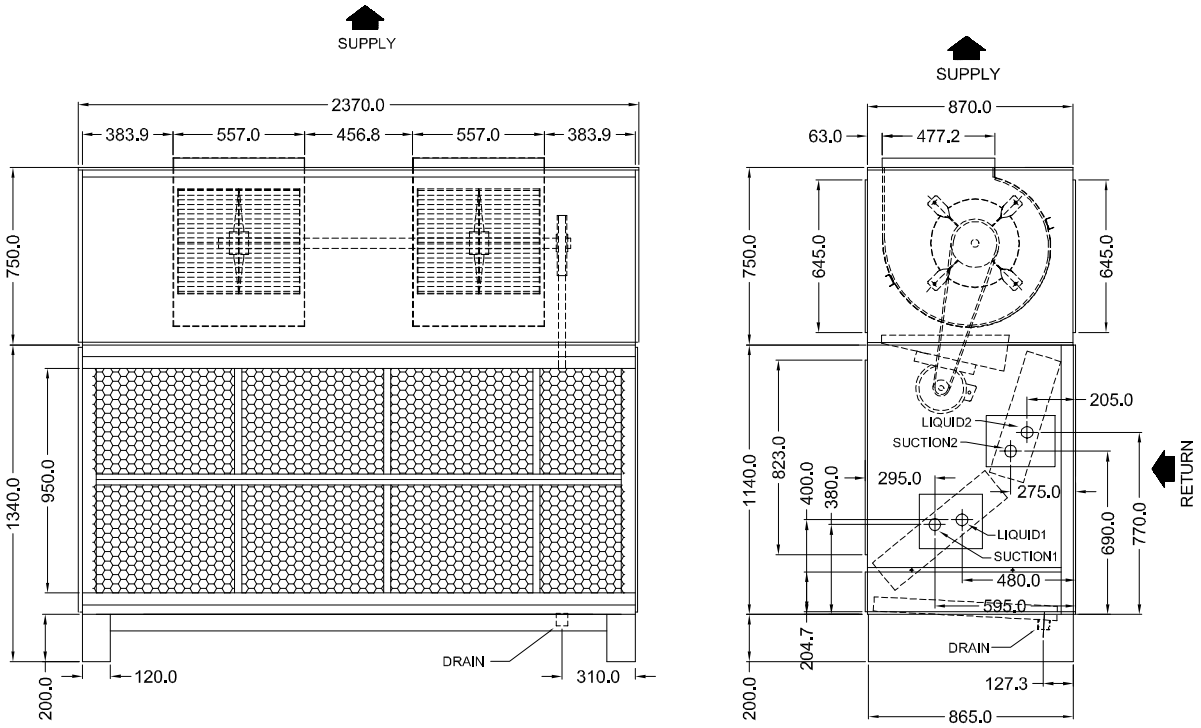


40RBU020, 025 Horizontal Type

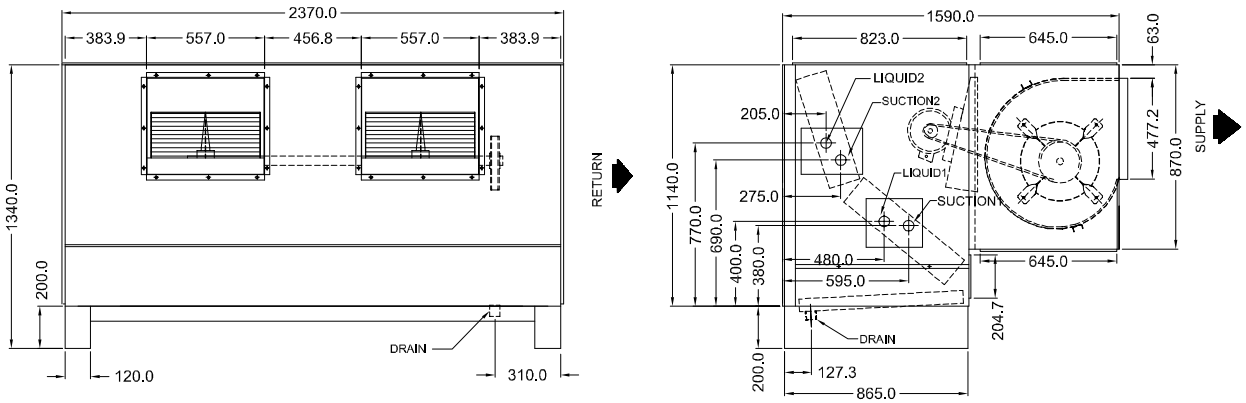


Unit dimensions

40RBU030, 040 Vertical Type

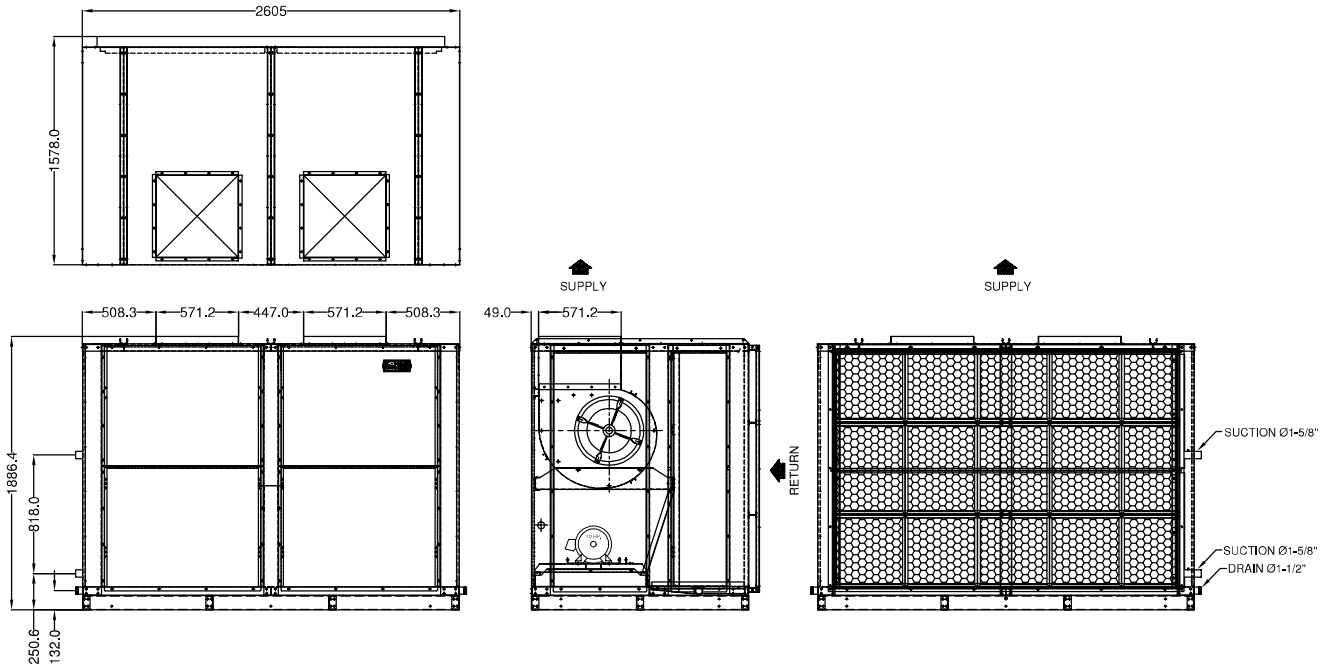


40RBU030, 040 Horizontal Type

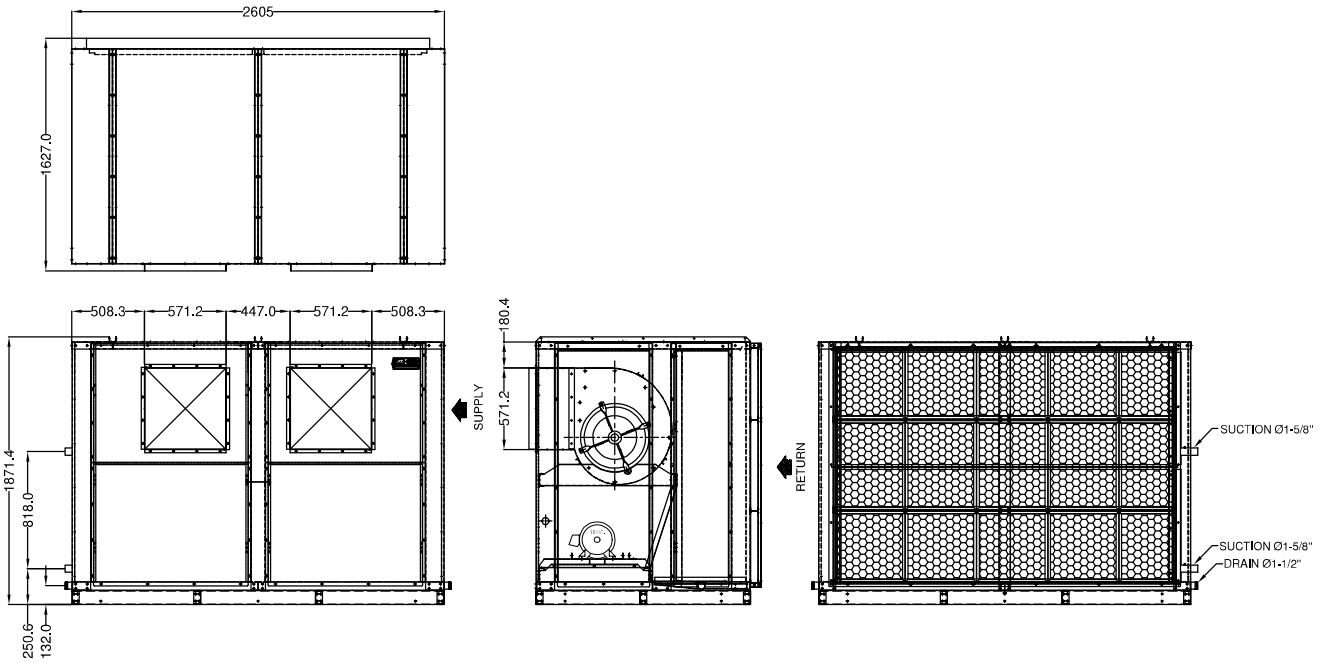


Unit dimensions

40RBU050 Vertical Type

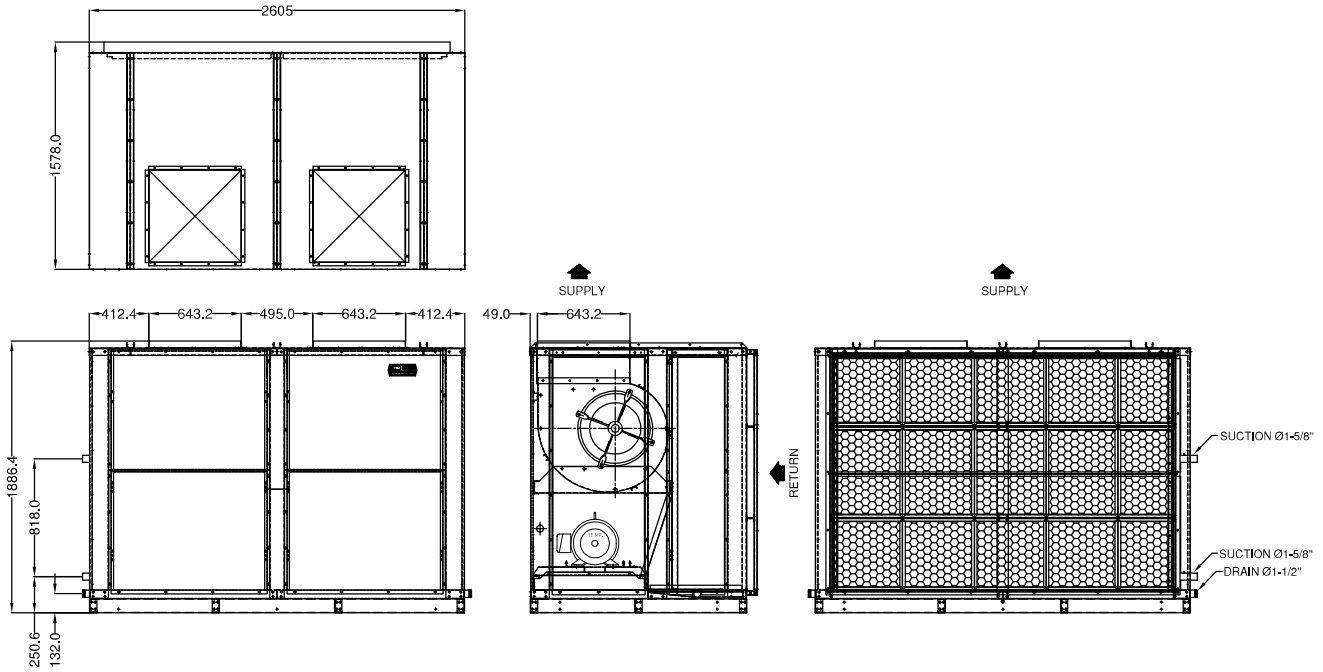


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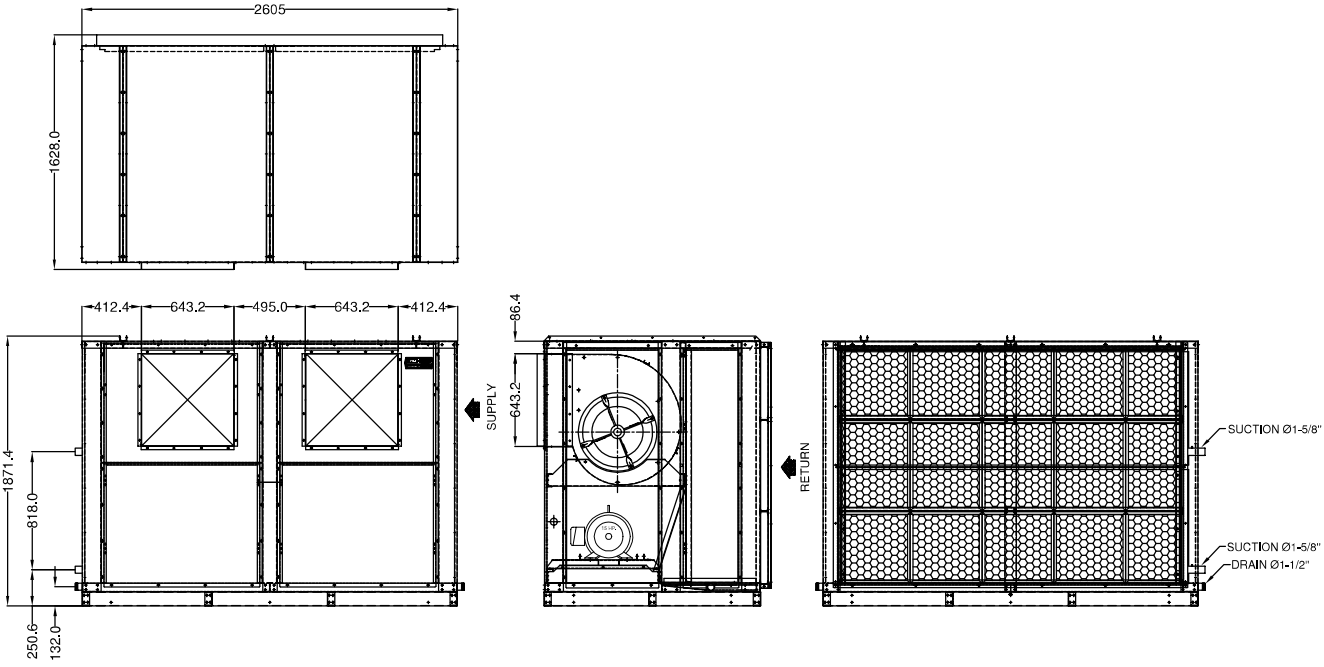


Unit dimensions

40RBU060 Vertical Type

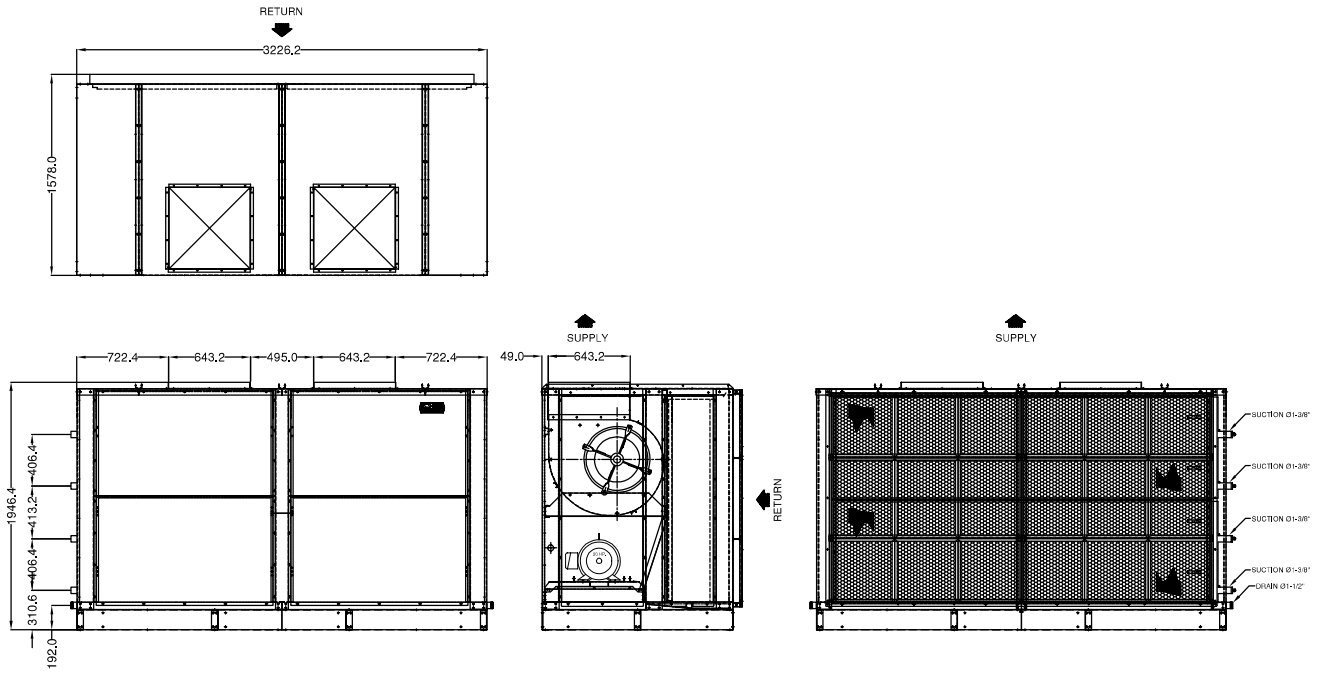


40RBU060 Horizontal Type

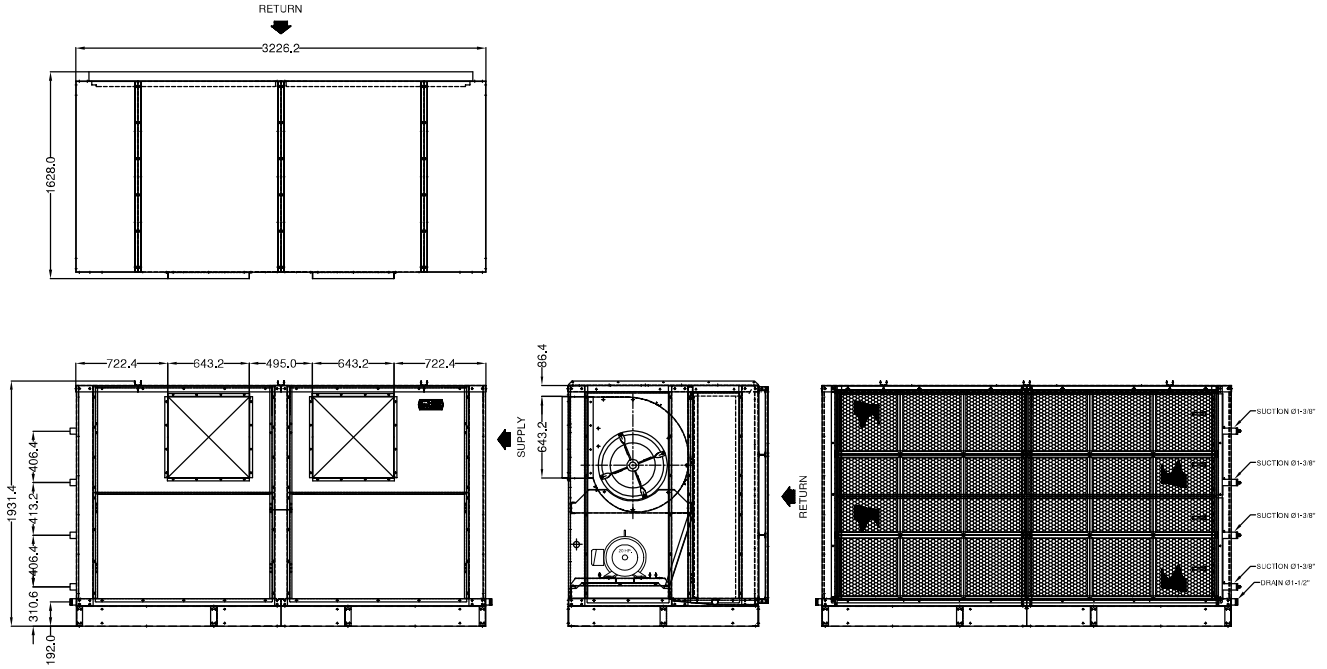


Unit dimensions

40RBU080 Vertical Type

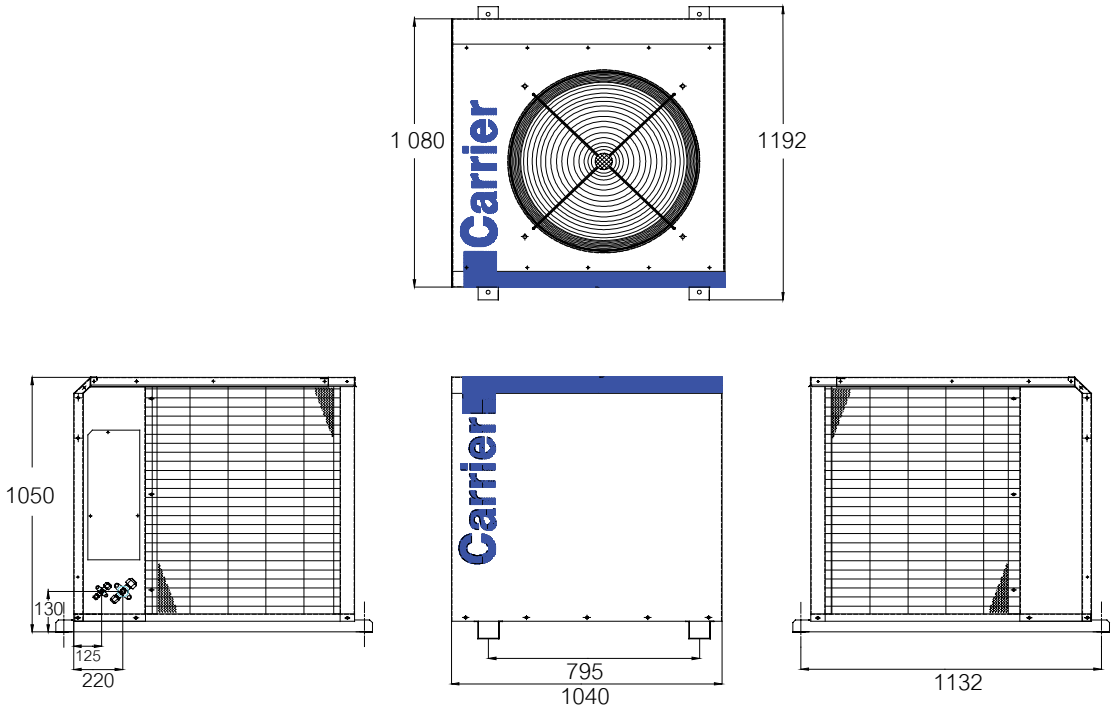


40RBU080 Horizontal Type

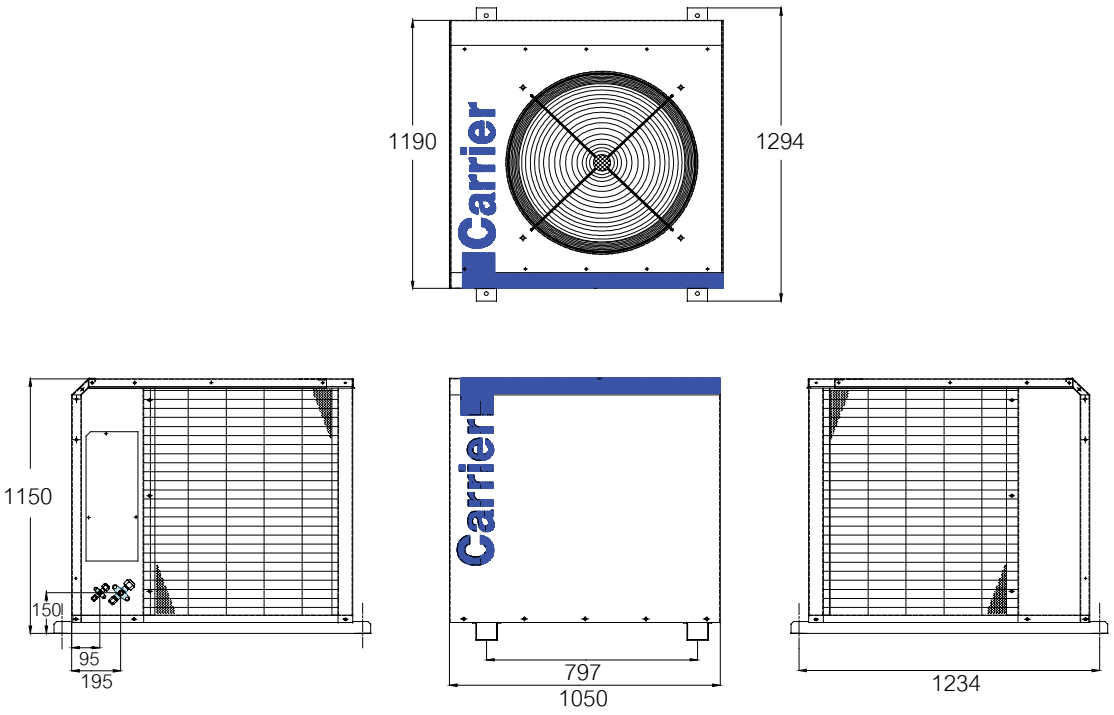


Unit dimensions

38LHU120S301

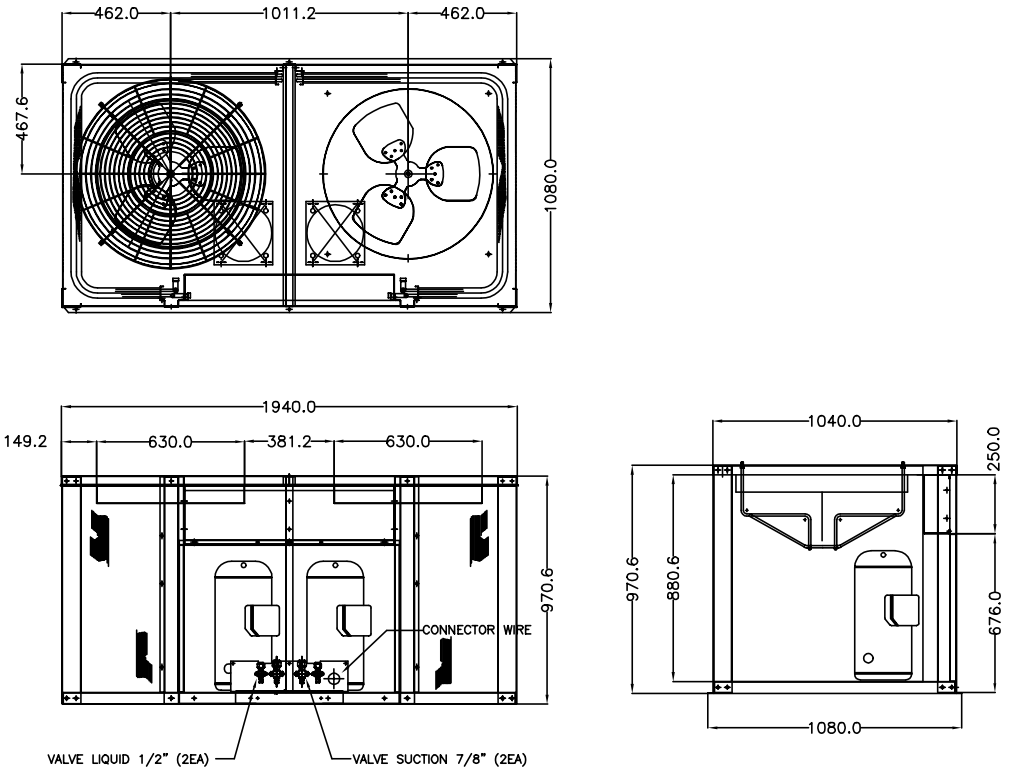


38LHU150S301, 38LHU200S301

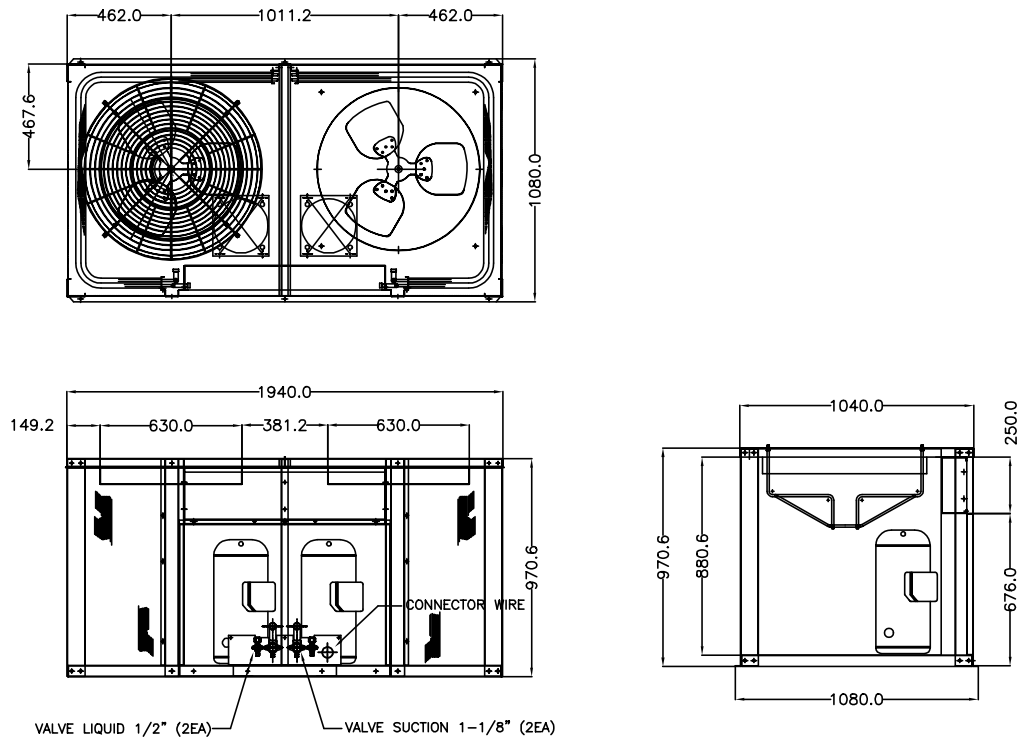


Unit dimensions

38ASU150S301

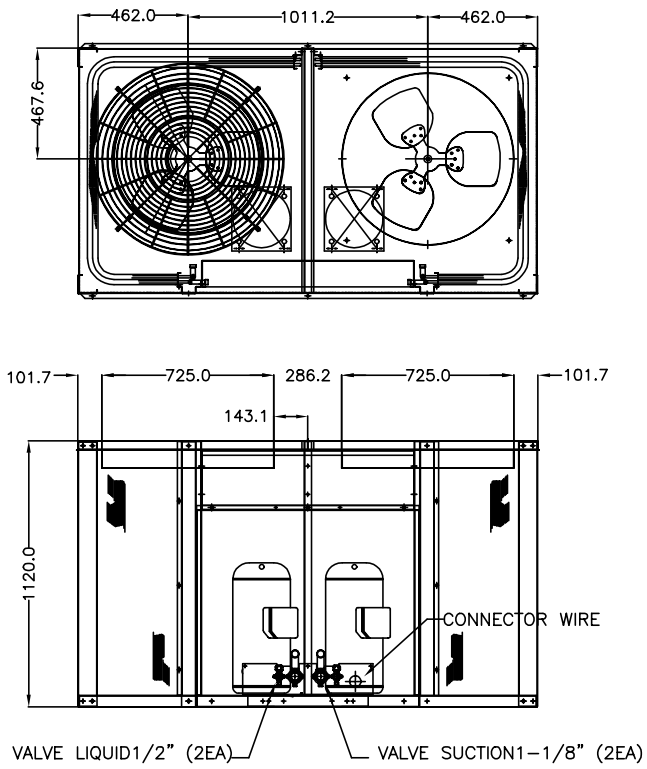


38ASU200S301

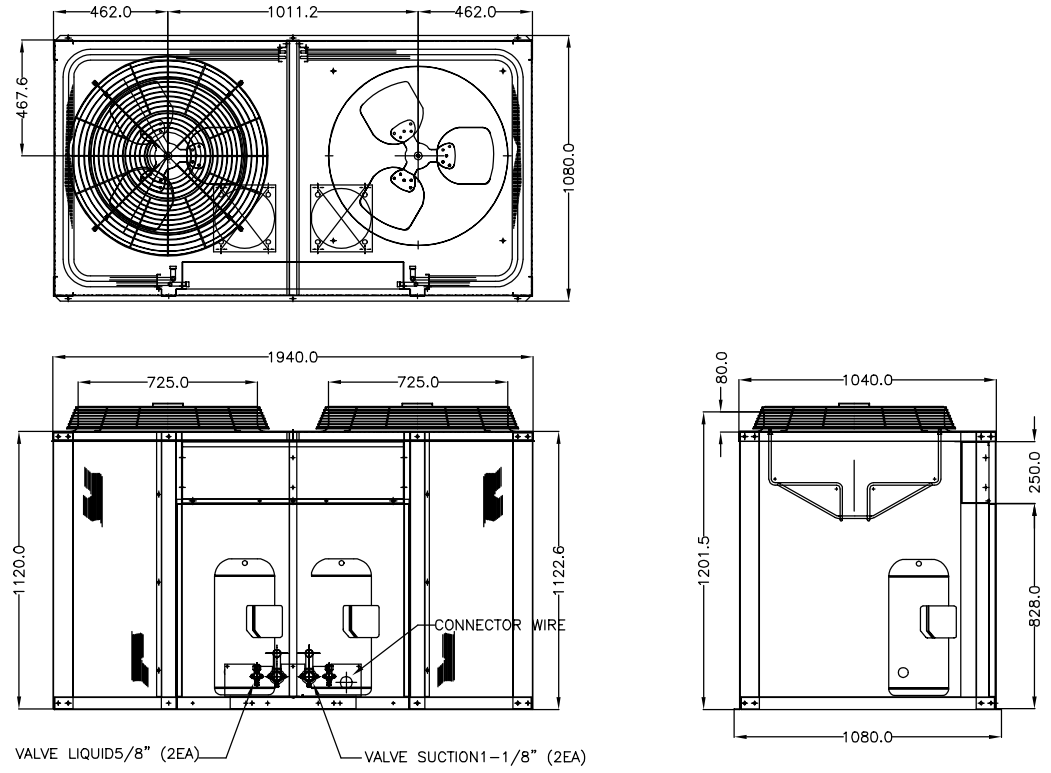


Unit dimensions

38ASU240S301

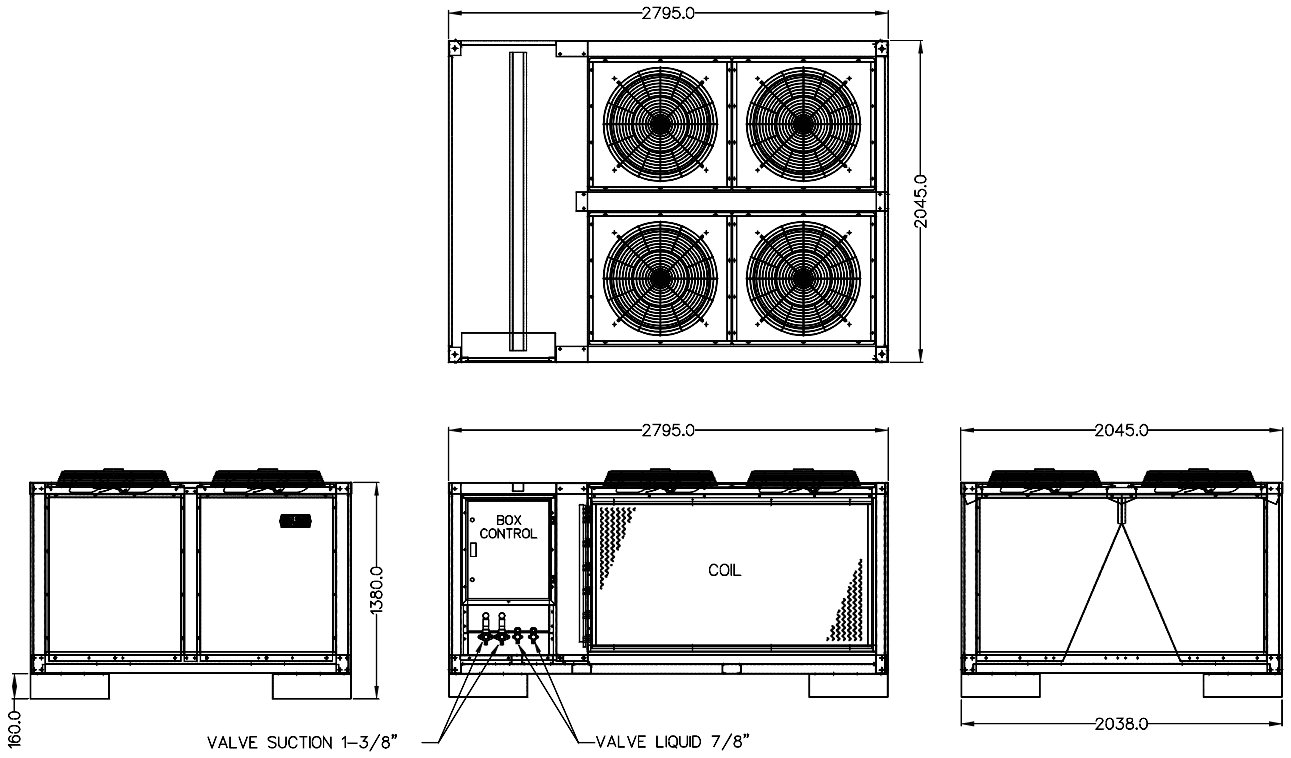


38ASU300S301

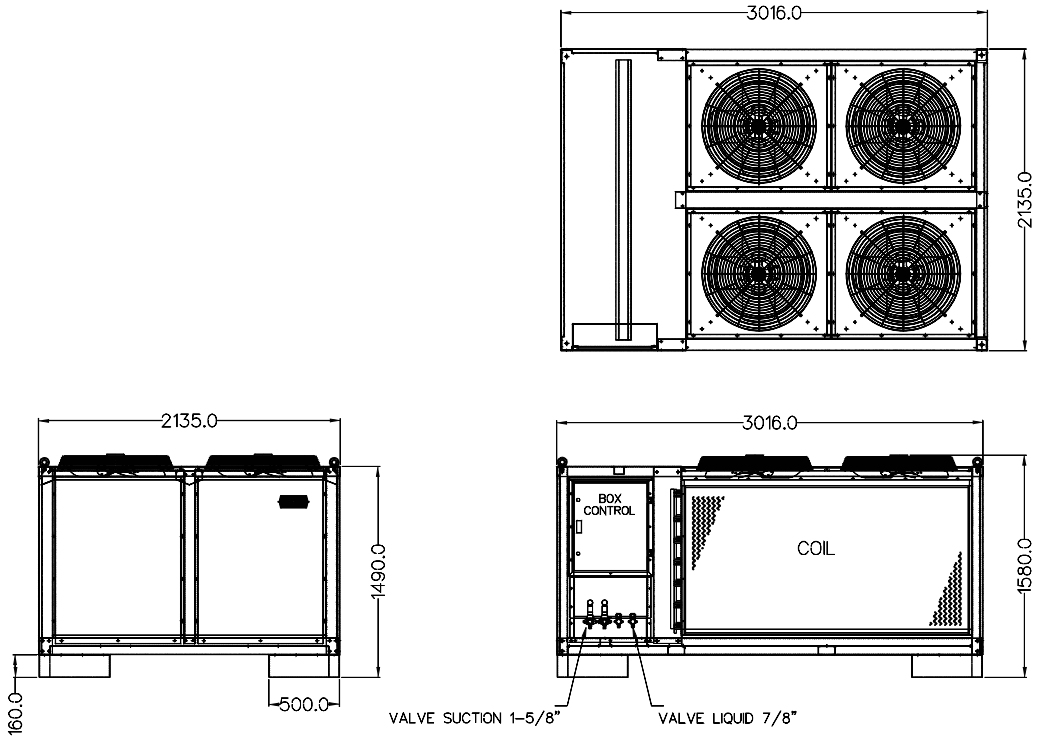


Unit dimensions

38ASU400S301



38ASU500-600S301



Intelligent Thermostat & Starter

It is a control unit used to start the motor, specially designed for use with the motor of an Air Handling Unit (AHU) in air conditioning systems. It also integrates other functions of the air conditioning system, making all components housed in a single cabinet. It is compact, aesthetically pleasing, and cost-effective. This control unit can function as various devices, as follows:

- Motor starter with Variable Speed Drive (VSD), suitable for motors with a maximum capacity of 20 HP or 15 kW
- Motor starter with direct on line, suitable for motors with a maximum capacity of 5 HP or 3.7 kW
- Motor starter with Star-Delta, suitable for motors with a maximum capacity of 10 HP or 7.5 kW
- Thermostat for air conditioning system



CARR-INTiTS05XMB (Direct online)
Variable Speed Drive (VSD)
CARR-INTVSDITS003X (2-3 HP)
CARR-INTVSDITS075X (2-7.5 HP)
CARR-INTVSDITS010X (2-10 HP)



CARR-INTiTSY10XMB (Star-Delta)
Variable Speed Drive (VSD)
CARR-INTVSDITS015X (15 HP)
CARR-INTVSDITS020X (15-20 HP)



Model : CARR-INTDT10ITSDP
External display unit (Optional)
The display can be used to control the air conditioner.

INTELLIGENT THERMOSTAT & STARTER , Direct on line , Star - Delta

RATING	CARR-INTITSD05XMB	CARR-INTITSY10XMB
POWER	0.75 - 5 HP (0.55 - 3.7 KW)	5 - 10 HP (3.7 - 7.5 KW)
VOLTAGE	3 Phase , 380 - 415 VAC	3 Phase , 380 - 415 VAC
STARTING TYPE	DOL	Star - delta

SPECIFICATION

POWER CONSUMPTION	13 Watt	13 Watt
SUPPLY VOLTAGE	380 V / 3 Ph / 50 Hz.	380 V / 3 Ph / 50 Hz.
ACCURACY	± 1 %	± 1 %
OVER VOLTAGE SETTING	5 - 20 %	5 - 20 %
UNDER VOLTAGE SETTING	5 - 20 %	5 - 20 %
VOLTAGE UNBALANCE SETTING	3 - 20 %	3 - 20 %
MACNETIC CONTACT RATING (AC-3)	9 Amp.	16 Amp.
PHASE PROTECTION MODE	Auto / Manual	Auto / Manual
AMBIENT OPERATING TEMPERATURE	10 - 50 °C	10 - 50 °C
INDICATOR	7 - segment LED Display	7 - segment LED Display
DIMENSION (W x L x H)	322 X 322 x 93 mm.	493 X 121 x 377 mm.

INTELLIGENT THERMOSTAT & VSD Starter

RATING	CARR-INTVSDITS003X	CARR-INTVSDITS075X	CARR-INTVSDITS010X	CARR-INTVSDITS015X	CARR-INTVSDITS020X
POWER	2 - 3 HP (1.5 - 2.2 KW)	2 - 7.5 HP (1.5 - 5.5 KW)	2 - 10 HP (1.5 - 7.5 KW)	15 HP (11.2 KW)	15 - 20 HP (11.2 - 15 KW)
VOLTAGE	3 Phase , 380 - 415 VAC	3 Phase , 380 - 415 VAC	3 Phase , 380 - 415 VAC	3 Phase , 380 - 415 VAC	3 Phase , 380 - 415 VAC
STARTING TYPE	VSD	VSD	VSD	VSD	VSD

SPECIFICATION

POWER CONSUMPTION	13 Watt	13 Watt	13 Watt	13 Watt	13 Watt
SUPPLY VOLTAGE	380 V / 3 Ph / 50 Hz.	380 V / 3 Ph / 50 Hz.	381 V / 3 Ph / 50 Hz.	382 V / 3 Ph / 50 Hz.	383 V / 3 Ph / 50 Hz.
OVER VOLTAGE	20%	20%	20%	20%	20%
UNDER VOLTAGE	20%	20%	20%	20%	20%
AMBIENT OPERATING TEMPERATURE	10 - 50 °C	10 - 50 °C	10 - 50 °C	10 - 50 °C	10 - 50 °C
INDICATOR	7 - segment LED Display	7 - segment LED Display	7 - segment LED Display	7 - segment LED Display	7 - segment LED Display
DIMENSION (W x L x H)	493 X 121 x 377 mm.	493 X 121 x 377 mm.	494 X 121 x 377 mm.	490 X 220 x 500 mm.	490 X 220 x 500 mm.

Features

Compatible with both DX and Chilled Water Air Handling Units
Proportional control for Chilled Water Air Handling Units
Electrical protection device to guard against electrical abnormalities such as over & under voltage, phase error, voltage unbalance, and overload
Auto Restart: When power is restored after a blackout, the control panel will operate according to the previously set commands
Can connect to BAS control systems via ModBus RS485
Digital input port for BMS interface to connect with the BAS system for turning the air conditioning unit on and off
Alarm output: In case of an abnormality, the system will send a signal as a single Dry contact
Superheat Control: The system will stop functioning when liquid refrigerant returns to the compressor to prevent damage to the compressor
Temperature offset: Can set a compensation for temperature readings
Dead band setting: Can set the temperature dead band so that Stage 2 operates, with settings available from 1-9 °C
Voltage reading: Can monitor the voltage for each phase supplied to the motor
Current reading: Can monitor the current for each phase supplied to the motor
Freeze temperature reading (Superheat value): Can view the temperature readings from each freeze sensor
Compressor Time delay: Can set a time delay for the operation of the compressor
Only for INTELLIGENT THERMOSTAT & VSD Starter models

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