



INVERTER

HIGH EFFICIENCY DUCTED INVERTER UVRL - UIRL SERIES



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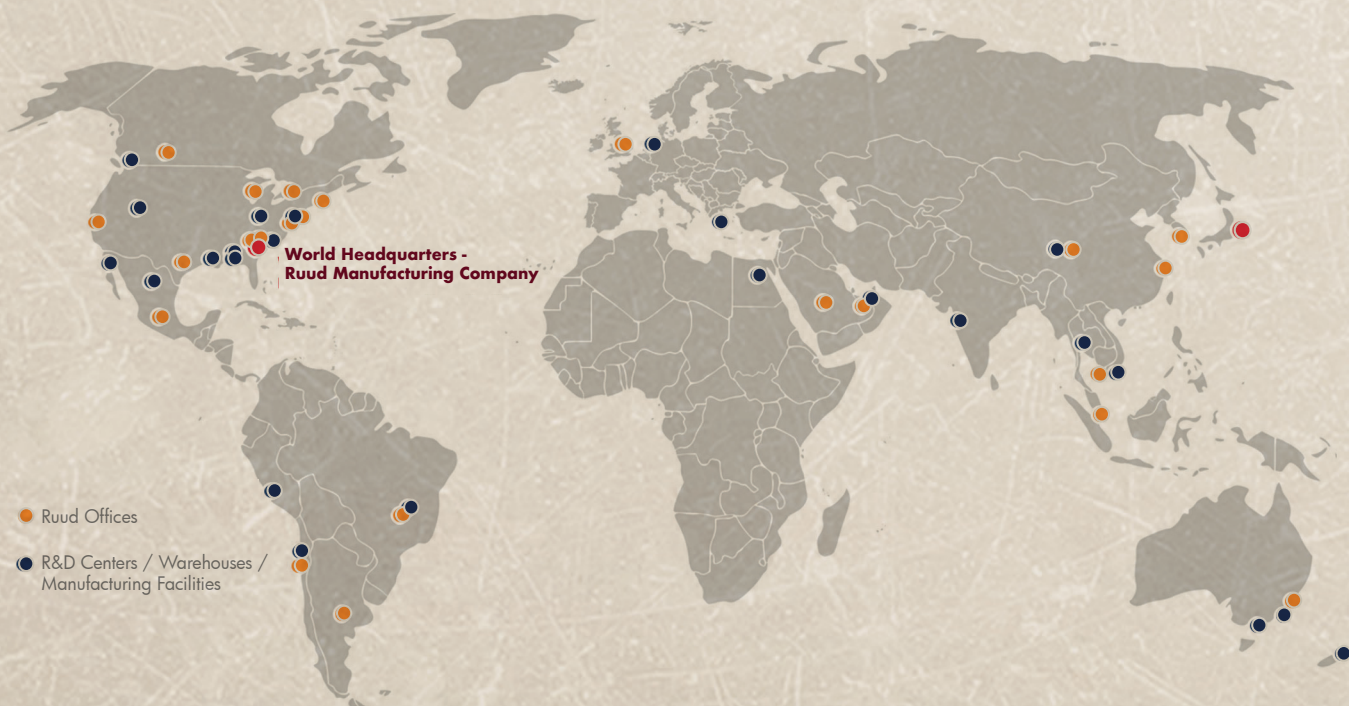
RELY ON RUUD.™

SERVING YOU FOR NEAR 100 YEARS

ABOUT RUUD

More than 100 years ago, Edwin Ruud, a Norwegian mechanical engineer, came to America and developed the first successful automatic water heater. That early success marked the beginning of a tradition of innovation and value that led to the introduction of RUUD® air conditioning and water heating equipment in the 1950s. Since then, the RUUD® has grown into one of North America's largest manufacturers of quality air conditioning and water heating products for residential and light commercial use. Today, RUUD® operates manufacturing facilities employing highly trained workers and state-of-the-art equipment. Over the years, the product lines have expanded, changed, and improved significantly as new design techniques and better manufacturing technologies have become available. What remains unchanged throughout our history, however, is our commitment to producing the most reliable, long-lasting, efficient equipment you can buy.

Our approach as a company is to keep the dialogue ongoing, listen, and then act. As a result, RUUD is able to constantly deliver innovations in the heating, cooling and water heating industries to provide our valued customers with new degrees of comfort.



11
R&D
CENTERS

13
Ruud BUSINESS
CENTER

25
MANUFACTURING
FACILITIES

RUUD COMMITMENT & DESIGN PHILOSOPHY

Our commitment to A GREATER DEGREE OF GOOD

From the 2019 launch of our sustainability program, we have focused on making a difference. And as our program has grown and expanded globally through the years, we've amplified our impact. But one thing has remained unchanged: our steadfast commitment to delivering A Greater Degree of Good™

This initiative has helped us develop a deeper understanding of Ruud's place in this world. And while our operations span the globe across borders and customs, we speak a common language- sustainability.

We built our A Greater Degree of Good initiative on three key pillars, each with its corresponding Ruud® 2025 goal and each strategically aligning with 2030 United Nations Sustainable Development Goals (SDGs).

DESIGNED FOR ZERO WASTE



DEGREES OF LEADERSHIP

Our 2025 goal:
Train 250,000
plumbers,
contractors and key
influencers on sustainable
products or sustainable
installation and recycling
best practices.



DEGREES OF INNOVATION

Our 2025 goal:
Launch a line of heating,
cooling and water
heating products that
boast a 50% reduction
in green house gas
footprint.



DEGREES OF EFFICIENCY

Our 2025 goal:
Reduce greenhouse gas
emissions by 50% and
achieve Zero Waste to
Landfill in our global
manufacturing
operations.

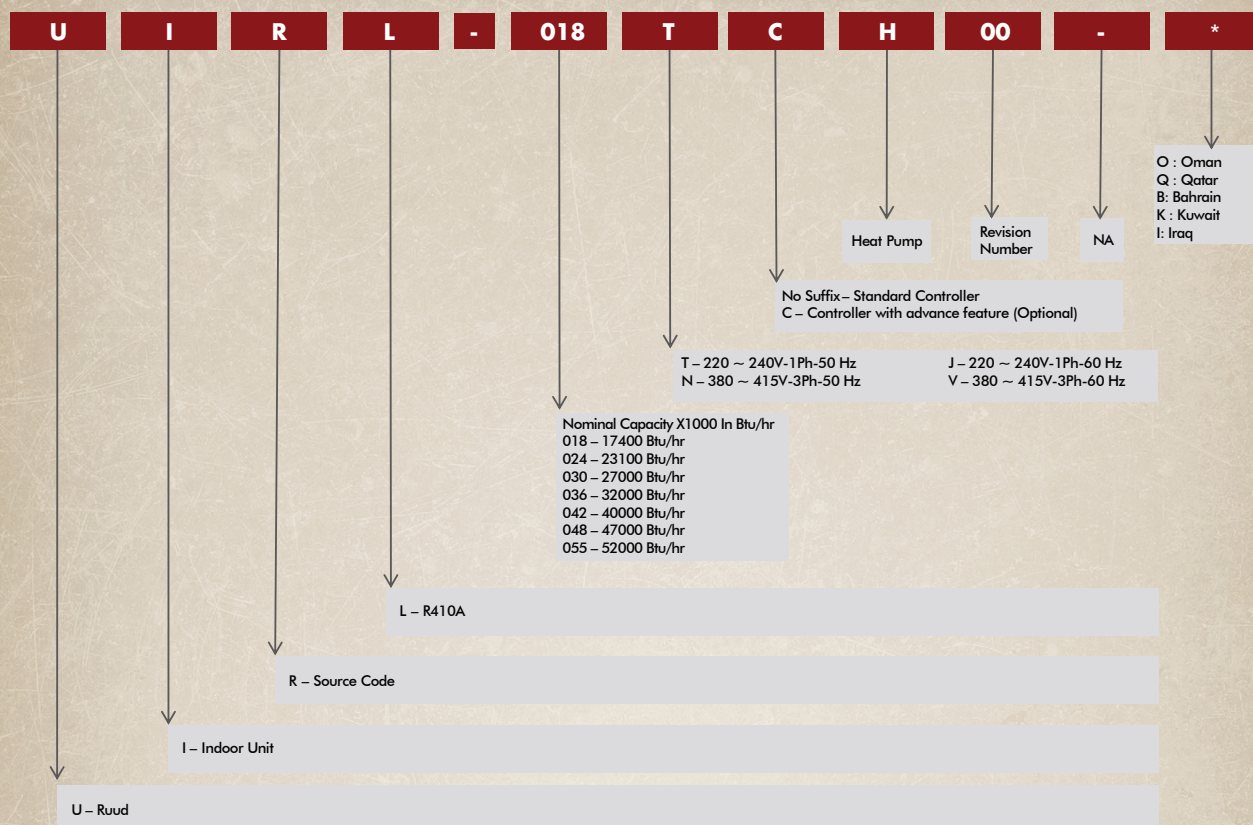


TABLE OF CONTENTS

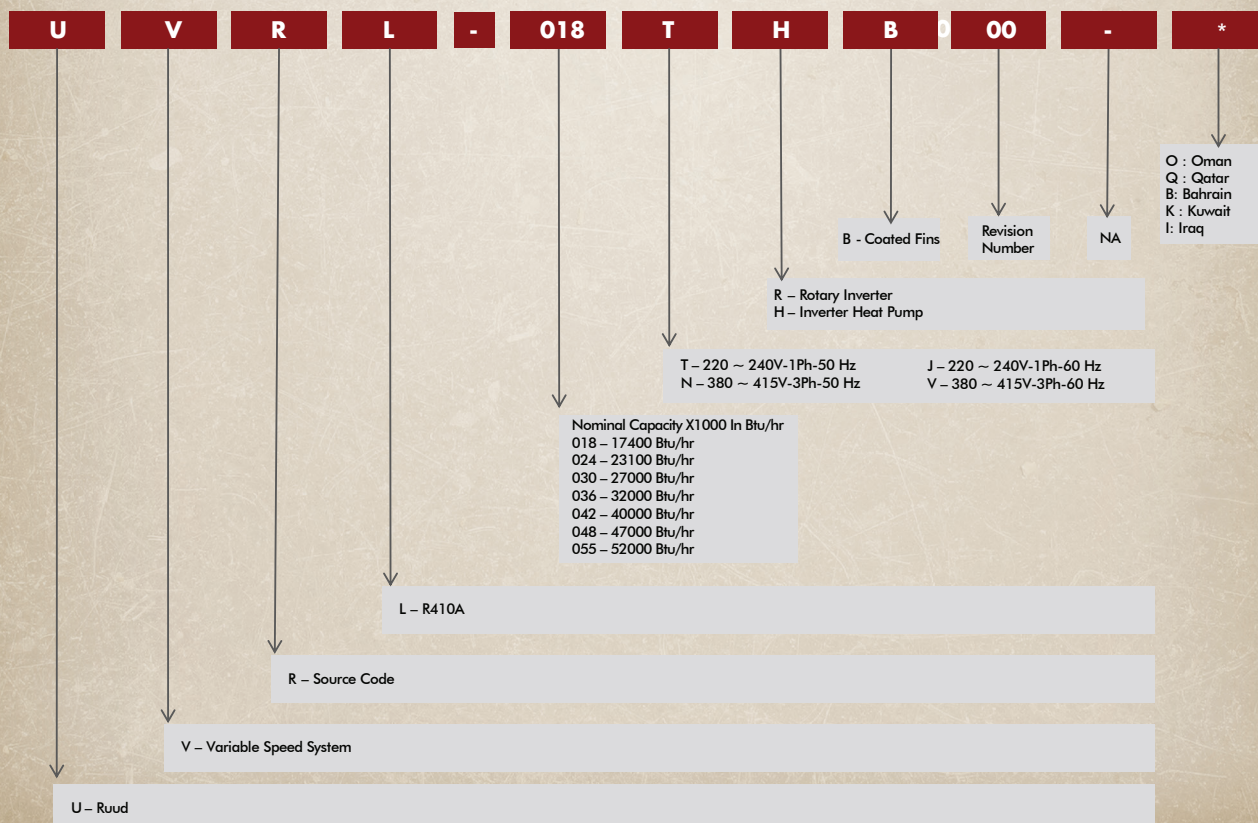
Indoor/Outdoor Unit Nomenclature	05
Inverter Technology	06
System Features	07
Outdoor Unit Features	09
Outdoor Unit Specifications	10
Indoor Unit Features	11
System Specifications	12
System Net Performance Data	14
Indoor/Outdoor Unit Technical Drawings	18
Indoor/Outdoor Unit Wiring Diagrams	26
Indoor Unit Sound Level Data	29
System Static Pressure Curves	29
Wired Controllers	33
Central Controllers	34
Wifi Module	35

NOMENCLATURE-LIGHT COMMERCIAL

Indoor Unit



Outdoor Unit



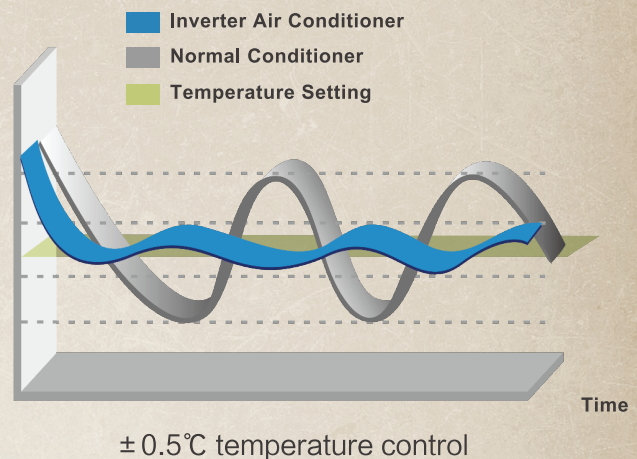
INVERTER TECHNOLOGY

WHAT IS AN INVERTER AIR CONDITIONER AND HOW DOES IT WORK?

A conventional air conditioner or so called ON/OFF or non inverter units operates at a fixed speed. It delivers a fix amount of cooling or heating capacity based on fix speed of the compressor. Irrespective of the temperature difference between set and actual, compressor runs at full speed and delivers fix capacity. Once room set temperature is achieved compressor has to stop completely and again re-start after actual temperature goes above the set. This cycle of ON/OFF continues and room temperature goes up and down in a sinusoidal wave form continuously.

An Inverter air conditioners DC on the other hand uses DC inverter compressor. DC inverter is an advanced technology used in the air conditioning industry to achieve higher degree of user comfort and to save more energy from the air conditioner. DC Inverter compressors can increase or decrease the compressor speed and hence deliver the cooling based on requirement of the space to be air conditioned.

Ruud's Inverter air conditioner's comes with a smart intelligent controls which can identity the cooling requirement in the room automatically and adjust the compressor speed accordingly.

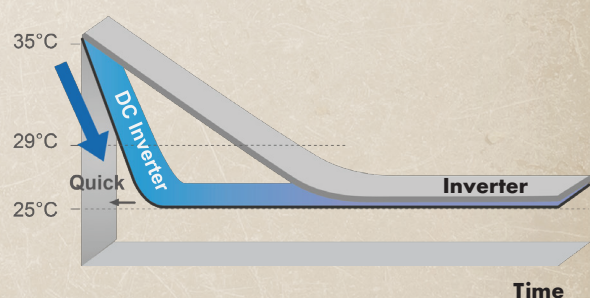


FASTER COOLING

In addition to adjustable DC inverter compressor Ruud also uses smart electronic expansion valve.

Electronic expansion valve is again controlled by the smart controller to maintain the accurate quantity of refrigerant mass flow rate based on the cooling demand. EEV work in 500 different steps, based on the cooling demand intelligent controller will give signal for the accurate opening of the EEV.

This simultaneous control of the DC inverter compressor speed along with electronic expansion valve opening gives faster cooling and precise control over the room temperature. This also saves the energy consumption greatly compared to fix speed air conditioner. Any sudden fluctuation in the room will be sensed by the smart controller and accordingly inverter air conditioner will adjust to achieve the set temperature.



FEATURES

COMFORT



Fast Cooling /Heating

Startup at high frequency increases cooling/heating capacity and reduces time to reach set temperature, thus you can enjoy cooling and heating in seconds.



Independent Dehumidification

With the independent dehumidification function, the unit can efficiently dehumidify the room and give you more comfort.



Silent

Indoor fan will run at super breeze speed and indoor noise level can be extremely low when the unit enters silent mode operation.

RELIABILITY



Low Ambient Cooling

With special designed PCB, outdoor fan speed can be changed automatically according to condensation temperature. The air conditioner can run cooling operation even when the outdoor ambient temperature down to -15°C.



Intelligent Defrosting

Normal defrost function can only be operated in certain time, but Ruud commercial air conditioner's intelligent defrost can start automatically according to the surrounding condition.



Compressor Heating Belt

Auxiliary heating belt can increase compressor oil temperature in winter and prevent defrosting water accumulated, which improves heat transfer efficiency.



No Frosting Chassis

The unique pipeline design makes the temperature on chassis higher than normal units, and it prevents defrosting water accumulated, which improves heat transfer efficiency and solves the drainage problem.



Golden Fin

Effectively prevent bacteria breeding and improve heat transfer efficiency. The unique anti-corrosive golden coating on the condenser can withstand the rain, salty air and other corrosive elements.

*optional

CONVENIENCE



24-hour Timer

Users can turn on or turn off the air conditioner at any time in 24 hours with remote controller or wireless controller.



Built-in Drain Pump

The built-in pump can lift the condensing water 1200 mm upmost from the drainage pan.



Dual side Drainage

Both left and right sides of the indoor unit are possible for drainage hose connection, and it's easy for installation with this function.



Digital Tube Display

Easily for the running parameters checking and more convenient for troubleshooting, digital tube displays work status such as indoor temperature, setting temperature, the mode of operation, etc.



Remote Control

Help users to control the air conditioner easily, you can design your most comfortable settings with this controller.



Wired Control

Help users to control the air conditioner easily, the wired controller can be fixed on the wall and avoid mislaying. It's mainly used for commercial zone and makes air conditioner control more convenient.

 Standard
 Optional

FEATURES



Central Control

With the control function of weekly timer, zone (or group) setting etc., the centralized controller can control 64 units with RS 485 wire connection and the central control adapter.



Washable Filter

The indoor unit filter can be taken off to wash easily and it keeps cleaning air all the time.



WIFI Control

With the WIFI control, you can easily turn off the air conditioner outside your house via smart device. Furthermore, you can turn it on before you come back. The indoor unit filter can be taken off to wash easily and it keeps cleaning air all the time.

*optional



Auto Restart Function

If the air conditioner breaks off unexpectedly due to the power cut, it will restart with the previous setting mode automatically when the power resume.

ENERGY SAVING



180° Sine Wave Control

With considerable advantages, DC Inverter 180° sine wave driving technology has much wider range of frequency and voltage, higher energy efficiency, more smoothly running and lower noise.



Hydrophilic aluminum fin

The louvered hydrophilic aluminum foil has improved by more than 10%. There refrigerant inlet and outlet are separated, to ensure the sub-cooling and enhance the cooling capacity.



Full Process By DC Drive

DC control, DC Compressor, DC indoor motor, DC outdoor motor, and DC Electronic expansion valve make low noise and high efficiency.

HEALTH



Fresh Air Intake

Air outside can be led into the room via a connection pipe, which keeps the indoor air fresh and healthy.



Long-term Filter

The latest long-term filter ensures better air quality. Meanwhile, the cleaning frequency has been decreased, and maintenance is also much easier.

UVRL-UIRL SERIES- OUTDOOR UNIT

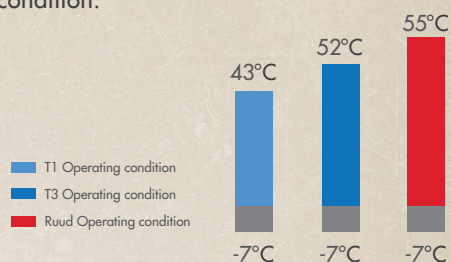


ENVIRONMENT FRIENDLY-R410A



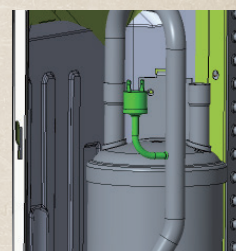
HIGH RUNNING TEMPERATURE

Enjoy excellent performance even under ambient temperature up to 55°C , suitable for T3 operating condition.



MULTIPLE PROTECTION

With Multiple Protection contents: High pressure protection, Low pressure protection, Compressor overloading protection, High Ext. temperature protection, Phase protection (Phase-loss, phase-reverse), Over-heating protection, Anti-freezing protection, Sensor failure alarm, Failure code display, etc. The compressor could well run in reasonable operation range.



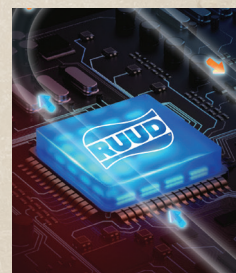
DOUBLE ANTI-CORROSION TECHNOLOGY

Galvanized metal with world-class powder spraying technology can improve the anti-corrosion ability of the housing of outdoor units three times, especially, in salty, moist surroundings.



COOLED & INSULATED PCB BOX

Helps to reduce the operation temperature of PCB by 30°C, prevent the PCB from overheating to make sure it can run steadily, also prolong its service life. *Only DC Inverter 36/48/55K Single Phase



UVRL-UIRL SERIES - OUTDOOR UNIT



TECHNICAL SPECIFICATION - SINGLE-PHASE

Model	Outdoor		UVRL-018THB00-*	UVRL-024THB00-*	UVRL-030THB00-*	UVRL-036THB00-*	UVRL-048THB00-*	UVRL-055THB00-*
Electric Data	Power Supply	V~,Hz,Ph	220-240,50,1	220-240,50,1	220-240,50,1	220-240,50,1	220-240, 50, 1	220-240, 50, 1
Performance	Air Flow Volume	m ³ /h	3500	3500	3500	4200	6800	7800
		CFM	2059	2059	2059	2471	4000	4588
	Noise Level	dB(A)	56	58	58	59	60	61
Dimension (W×D×H)	Net	mm	900×350×700	900×350×700	900×350×700	970×395×805	940×370×1320	940×401×1366
	Packing	mm	1020×430×770	1020×430×770	1020×430×760	1110×500×900	1080×430×1440	1080×460×1490
Weight	Net/Gross	kg	40/44	42/46	45.5/49	61/66	86/95	99/109
Piping	Liquid	mm(inch)	6.35	9.52	9.52	9.52	9.52	9.52
	Gas	mm (inch)	12.7	15.88	15.88	15.88	19.05	19.05
	Max. Length/Max. Height	m	30/15	30/15	30/20	50/30	50/30	50/30
Stuffing Quantity	20/40/40H	unit	87/183/183	87/183/183	87/183/183	44/96/96	27/55/55	27/55/55

TECHNICAL SPECIFICATION - THREE-PHASE

Model	Outdoor		UVRL-042NHB00-*	UVRL-048NHB00-*	UVAL-055NHB00-*
Electric Data	Power Supply	V~,Hz,Ph	380-415,50,3	380-415,50,3	380-415,50,3
Performance	Air Flow Volume	m ³ /h	6800	6800	6800
		CFM	4000	4000	4000
	Noise Level	dB(A)	60	60	60
Dimension (W×D×H)	Net	mm	940×370×1325	940×370×1325	940×401×1366
	Packing	mm	1080×430×1440	1080×430×1440	1080×460×1490
Weight	Net/Gross	kg	96/106	96/106	105/118
Piping	Liquid	mm(inch)	Φ9.52	Φ9.52	Φ9.52
	Gas	mm (inch)	Φ19.05	Φ19.05	Φ19.05
	Max. Length/Max. Height	m	50/30	50/30	50/30
Stuffing Quantity	20/40/40H	unit	27/55/55	27/55/55	27/55/55

Remark:

- 1.The above designs and specifications are subject to change without prior notice. Final specifications please refer to technical specification provided by sales representative.
- 2.Cooling Capacity and Cooling Input Power (T1):Indoor Temperature 26.7°C DB/19.4°C WB;Ambient Temperature 35°C DB/24°C WB.
- 3.Heating Capacity and Heating Input Power :Indoor Temperature 20 °C DB;Ambient Temperature 7 °C DB/6°C WB.
- 4.The Max.Ambient temperature for units running is 55 °C.

UVRL-UIRL SERIES

T4 SUMMARY DATA TABLE

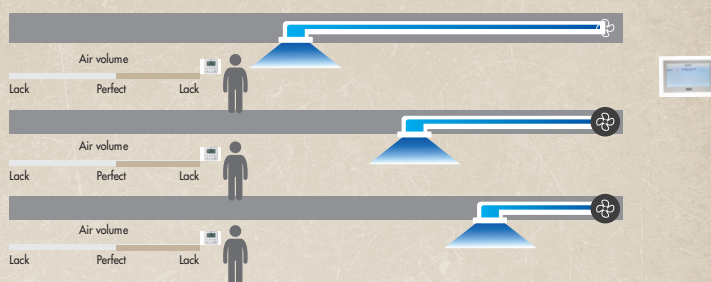
MODEL	Indoor Model		UIRL-018TH00-*	UIRL-024TH00-*	UIRL-030TH00-*	UIRL-036TH00-*	UIRL-042NH00-*	UIRL-048NH00-*	UIRL-055NH00-*
	Outdoor Model		UVRL-018THB00-*	UVRL-024THB00-*	UVRL-030THB00-*	UVRL-036THB00-*	UVRL-042NHB00-*	UVRL-048NHB00-*	UVRL-055NHB00-*
Capacity	Cooling (T4)	Btu/h	12000	17000	19000	27000	33000	40000	45000
Electric Data	Power Input (T4)	W	1400	1984	2219	3151	3851	4667	5251
Performance	EER (T4)	kW/RT	1.40	1.40	1.42	1.40	1.40	1.40	1.40

UVRL-UIRL SERIES

MID ESP DUCT

SELF-ADAPTION TECHNOLOGY

Automatic ESP Adjustment function will adapt the unit to any ducting with optimized air volume and minimized noise level automatically, making more comfortable in any situation.



WIFI CONTROL (OPTIONAL)

The optional WiFi modular makes it possible to monitor and control your AC while on the road through APP on your mobile phone or pad.



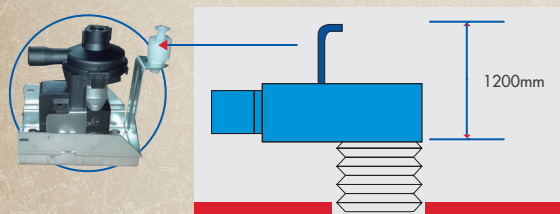
FRESH AIR INTAKE

Fresh air makes a healthy, comfortable life.



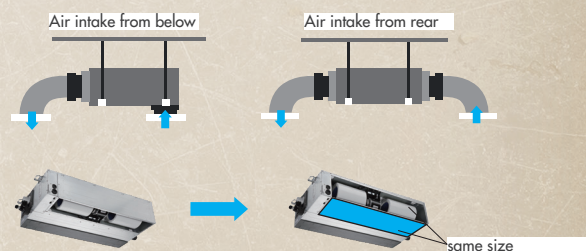
BUILT-IN WATER PUMP (OPTIONAL)

The built-in pump can lift condensing water up to 1200mm high from the drainage pan.



FLEXIBLE AIR INTAKE OPTIONS

Air intake from rear as standard, from bottom is optional. The size of the plate from bottom is the same as the flange from back, which makes it convenient to change installation style due to different decoration requirements.



DUCTED INVERTER



TECHNICAL SPECIFICATION - SINGLE-PHASE

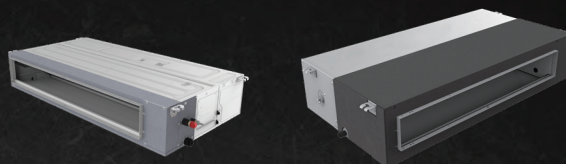
Model	Indoor Outdoor		UIRL-018TH00- UVRL-018THB00-*	UIRL-024TH00- UVRL-024THB00-*	UIRL-030TH00- UVRL-030THB00-*
Capacity	Cooling (T1/T3/T4)	Btu/h	17400/16000/12000	23100/21100/17000	28000/27000/19000
		RT	1.45/1.33/1.00	1.93/1.76/1.41	2.33/2.25/1.58
		kW	5.10/4.68/3.52	6.78/6.18/4.98	8.21/7.9/5.57
	Heating(H1)	Btu/h	19800	27600	30026
		RT	1.65	2.30	2.5
		kW	5.80	8.10	8.80
Electric Data	Power Supply	V~,Hz,Ph	220-240,50,1	220-240,50,1	220-240,50,1
	Cooling Power Input(T1/T3/T4)	W	1426/1860/1400	1893/2482/1984	2295/3140/2219
	Cooling Current(T1/T3/T4)	A	6.74/8.79/6.41	8.95/11.73/9.08	10.84/14.84/9.84
	Heating Power Input(H1)	W	1506	2104	2316
	Heating Current(H1)	A	7.12	9.94	10.28
Performance	EER(T1/T3)	(Btu/h)/W	12.20/8.60	12.20/8.50	12.2/8.60
		W/W	3.58/2.52	3.58/2.49	3.58/2.52
	EER(T4)	kW/RT	1.4	1.4	1.4
		W/W	2.51	2.51	2.51
	COP(H1)	(Btu/h)/W	13.14	13.14	12.96
		W/W	3.85	3.85	3.80
	Air Flow Volume(Hi/Mid/Low)	m3/h	1130/910/780	1500/1350/1200	2100/1900/1600
		CFM	665/535/459	882/794/706	1235/1117/1000
	Noise Level(Hi/Mid/Low)	dB(A)	42/39/38	45/43/41	45/42/40
	External Static Pressure(ESP)	Pa	0~80	0~80	0~160
Dimension (WxDxH)	Net	mm	1000×700×245	1000×700×245	1250×735×320
	Packing	mm	1230X830X300	1230X830X300	1630x830x300
Dimension	Air Outlet	mm	811×175	811×175	967×214
	Air Return	mm	874×204	874×204	1175×280
Weight	Net/Gross	kg	30/36	30/36	38/44.5
Piping Size	Drainage	mm(inch)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)
Stuffing Quantity	20/40/40H	set	77/161/184	77/161/184	66/138/138

Model	Indoor Outdoor		UIRL-036TH00- UVRL-036THB00-*	UIRL-048TH00- UVRL-048THB00-*	UIRL-055TH00- UVRL-055THB00-*
Capacity	Cooling (T1/T3/T4)	Btu/h	32000/30000/27000	45000/42000	52000/47000
		RT	2.67/2.50/2.26	3.75/3.5	4.34/3.91
		kW	9.4/8.8/7.91	13.2/12.3	15.25/13.75
	Heating(H1)	Btu/h	35800	51100	60000
		RT	2.99	4.27	5.00
		kW	10.50	14.7	17.60
Electric Data	Power Supply	V~,Hz,Ph	220-240,50,1	220-240, 50, 1	220-240, 50, 1
	Cooling Power Input(T1/T3/T4)	W	2634/3488/3151	3704/4828	4280/5465
	Cooling Current(T1/T3/T4)	A	12.45/16.49/14.42	17.50/22.81	19.59/25.01
	Heating Power Input(H1)	W	2763	3868	4632
	Heating Current(H1)	A	13.06	18.28	21.20
Performance	EER(T1/T3)	(Btu/h)/W	12.15/8.60	12.15/8.70	12.15/8.60
		W/W	3.56/2.52	3.56/2.55	3.56/2.52
	EER(T4)	kW/RT	1.40		
		W/W	2.51		
	COP(H1)	(Btu/h)/W	12.96	12.96	12.96
		W/W	3.80	3.80	3.80
	Air Flow Volume(Hi/Mid/Low)	m3/h	2100/1900/1600	2800/2500/2100	3100/2800/2500
		CFM	1235/1117/1000	1647/1471/1235	1824/1647/1471
	Noise Level(Hi/Mid/Low)	dB(A)	45/42/40	52/50/47	52/50/47
	External Static Pressure(ESP)	Pa	0~160	0~160	0~160
Dimension (WxDxH)	Net	mm	1250×735×320	1400×820×380	1400×820×380
	Packing	mm	1460×800×400	1610×880×460	1610×880×460
Dimension	Air Outlet	mm	967×214	1117×273	1117×273
	Air Return	mm	1175×280	1320×340	1320×340
Weight	Net/Gross	kg	48/54	56/63	56/63
Piping Size	Drainage	mm(inch)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4in)
Stuffing Quantity	20/40/40H	set	66/138/138	35/75/75	35/75/75

Remark:

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2. Cooling Capacity and Cooling Input Power (T1): Indoor Temperature 26.7°C DB/19.4°C WB; Ambient Temperature 35°C DB/24°C WB.
3. Heating Capacity and Heating Input Power :Indoor Temperature 20C DB; Ambient Temperature 7°C DB/6°C WB.
4. The Max. Ambient temperature for units running is 55 °C.

DUCTED INVERTER



TECHNICAL SPECIFICATION - THREE-PHASE

Model	Indoor Outdoor		UIRL-042NH00- [*] UVRL-042NHB00- [*]	UIRL-048NH00- [*] UVRL-048NHB00- [*]	UIRL-055NH00- [*] UVRL-055NHB00- [*]
Capacity	Cooling (T1/T3/T4)	Btu/h	40000/35000/33000	47000/43000/40000	52000/47000/45000
		RT	3.33/2.91/2.75	3.91/3.58/3.33	4.34/3.92/3.75
		kW	11.70/10.25/9.67	13.75/12.60/11.72	15.25/13.77/13.19
	Heating(H1)	Btu/h	46000	52200	61400
		RT	3.84	4.35	5.12
		kW	13.50	15.30	18.00
Electric Data	Power Supply	V~,Hz,Ph	380-415,50,3	380-415,50,3	380-415,50,3
	Cooling Power Input(T1/T3/T4)	W	3292/4023/3851	3852/4943/4667	4280/5402/5251
	Cooling Current(T1/T3/T4)	A	5.5/6.78/6.49	6.49/8.33/7.86	7.21/9.10/8.85
	Heating Power Input(H1)	W	3553	3923	4737
	Heating Current(H1)	A	6.80	7.00	8.00
Performance	EER(T1/T3)	(Btu/h)/W	12.15/8.70	12.20/8.7	12.15/8.70
		W/W	3.56/2.55	3.58/2.55	3.56/2.55
	EER(T4)	kW/RT	1.40	1.40	1.40
		W/W	2.51	2.51	2.51
	COP(H1)	(Btu/h)/W	12.96	13.30	12.96
		W/W	3.80	3.90	3.80
	Air Flow Volume(Hi/Mid/Low)	m3/h	2300/2100/1700	2800/2500/2100	3100/2800/2500
		CFM	1353/1235/1000	1647/1471/1235	1824/1647/1471
	Noise Level(Hi/Mid/Low)	dB(A)	48/45/43	49/47/44	52/50/47
Dimension (WxDxH)	External Static Pressure(ESP)	Pa	0~160	0~160	0~160
	Net	mm	1250×735×320	1400×820×380	1400×820×380
	Packing	mm	1460×800×400	1610×880×460	1610×880×460
Dimension	Air Outlet	mm	967×214	1117×273	1117×273
	Air Return	mm	1175×280	1320×340	1320×340
Weight	Net/Gross	kg	48/54	56/63	56/63
Piping Size	Drainage	mm(inch)	DN20(R3/4in)	DN20(R3/4in)	DN20(R3/4in)
Stuffing Quantity	20/40/40H	set	66/138/138	35/75/75	35/75/75

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- 3.Heating Capacity and Heating Input Power :Indoor Temperature 20C DB;Ambient Temperature 7°C DB/6°C WB.
- 4.The Max.Ambient temperature for units running is 55 °C.

18K SYSTEM NET PERFORMANCE DATA

Indoor Model Name		UJRL-018TH00.* UVRL-018THB00.*																			
Fan gear	Air Flow Rate m3/h	Indoor Air Temperature °CWB			Outdoor Air Temperature (°CDB)																
		35			40			43			46			48			52				
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI		
Low	780	14	3.62	3.29	1.33	3.49	3.21	1.41	3.37	3.14	1.46	3.36	3.09	1.74	3.26	3.03	1.75	3.12	2.99	1.77	
		16	4.23	3.72	1.35	4.07	3.63	1.44	3.94	3.54	1.48	3.90	3.50	1.76	3.78	3.43	1.77	3.62	3.38	1.80	
		18	25	4.72	4.03	1.37	4.54	3.93	1.46	4.39	3.83	1.51	4.38	3.79	1.79	4.25	3.72	1.80	4.06	3.66	1.82
		19	27	4.94	4.16	1.39	4.75	4.05	1.48	4.60	3.95	1.53	4.56	3.81	1.82	4.42	3.83	1.83	4.23	3.78	1.86
		22	30	5.42	4.39	1.41	5.22	4.27	1.50	5.05	4.15	1.55	5.01	4.13	1.84	4.86	4.05	1.85	4.65	3.99	1.88
		24	32	5.62	4.45	1.43	5.41	4.32	1.52	5.24	4.20	1.57	5.19	4.19	1.87	5.04	4.10	1.88	4.82	4.06	1.91
		14	20	3.43	3.68	1.34	3.54	3.29	1.43	3.43	3.22	1.48	3.41	3.17	1.76	3.31	3.11	1.77	3.16	3.05	1.79
		16	22	4.29	3.81	1.37	4.13	3.72	1.45	4.00	3.63	1.50	3.96	3.58	1.78	3.84	3.51	1.79	3.67	3.46	1.82
Medium	910	18	25	4.79	4.13	1.39	4.61	4.02	1.47	4.46	3.92	1.52	4.45	3.88	1.81	4.31	3.81	1.82	4.13	3.75	1.85
		19	27	5.01	4.26	1.41	4.83	4.15	1.50	4.67	4.04	1.55	4.63	4.01	1.84	4.49	3.93	1.85	4.30	3.87	1.88
		22	30	5.50	4.50	1.43	5.30	4.37	1.52	5.12	4.25	1.57	5.09	4.23	1.86	4.93	4.15	1.88	4.72	4.09	1.90
		24	32	5.71	4.56	1.45	5.50	4.43	1.54	5.32	4.31	1.59	5.27	4.29	1.89	5.11	4.21	1.90	4.89	4.15	1.93
		14	20	3.74	3.43	1.36	3.60	3.35	1.45	3.49	3.27	1.49	3.46	3.22	1.78	3.35	3.16	1.79	3.20	3.12	1.81
		16	22	4.37	3.88	1.38	4.20	3.78	1.47	4.07	3.69	1.52	4.01	3.65	1.80	3.89	3.57	1.81	3.72	3.52	1.84
		18	25	4.87	4.20	1.40	4.69	4.10	1.49	4.54	3.99	1.54	4.50	3.95	1.83	4.37	3.87	1.84	4.18	3.82	1.87
		19	27	5.10	4.33	1.43	4.91	4.22	1.52	4.75	4.11	1.57	4.68	4.08	1.86	4.54	4.00	1.87	4.35	3.94	1.90
High	1130	22	30	5.60	4.58	1.44	5.39	4.45	1.54	5.21	4.33	1.59	5.15	4.31	1.89	5.00	4.22	1.90	4.78	4.16	1.93
		24	32	5.81	4.64	1.47	5.59	4.51	1.56	5.41	4.38	1.61	5.34	4.37	1.91	5.18	4.25	1.93	4.95	4.22	1.95

24K SYSTEM NET PERFORMANCE DATA

Fan gear	Air Flow Rate m3/h	Indoor Air Temperature		Outdoor Air Temperature (°CDB)																	
		°CWB	°CDB	35			40			43			46			48			52		
				TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
Low	1200	14	20	4.74	4.23	1.77	4.56	4.14	1.88	4.41	4.04	1.94	4.35	3.98	2.32	4.22	3.90	2.34	4.03	3.85	2.37
		16	22	5.53	4.79	1.80	5.33	4.67	1.91	5.15	4.56	1.97	5.05	4.50	2.36	4.89	4.41	2.37	4.68	4.35	2.41
		18	25	6.17	5.19	1.82	5.94	5.06	1.94	5.75	4.93	2.00	5.67	4.88	2.39	5.50	4.78	2.40	5.26	4.71	2.44
		19	27	6.46	5.35	1.86	6.22	5.21	1.97	6.01	5.08	2.04	5.90	5.04	2.43	5.72	4.94	2.45	5.47	4.74	2.48
		20	30	7.09	5.65	1.88	6.82	5.50	2.00	6.60	5.35	2.06	6.48	5.32	2.47	6.29	5.21	2.48	6.01	5.14	2.52
		22	32	7.36	5.73	1.91	7.08	5.57	2.03	6.85	5.41	2.09	6.71	5.39	2.50	6.51	5.28	2.51	6.23	5.21	2.55
		24	34	7.54	5.81	1.93	7.26	5.65	2.05	7.03	5.55	2.11	6.89	5.49	2.52	6.69	5.38	2.52	6.41	5.29	2.57
		26	36	7.72	5.89	1.95	7.44	5.73	2.07	7.21	5.63	2.13	7.07	5.57	2.54	6.87	5.46	2.53	6.59	5.37	2.59
Medium	1350	14	20	4.89	4.44	1.78	4.71	4.34	1.90	4.56	4.24	1.96	4.49	4.18	2.34	4.35	4.10	2.36	4.16	4.04	2.39
		16	22	5.71	5.02	1.81	5.50	4.90	1.93	5.32	4.78	1.99	5.21	4.73	2.37	5.05	4.63	2.39	4.83	4.57	2.43
		18	25	6.37	5.44	1.84	6.13	5.31	1.96	5.93	5.17	2.02	5.85	5.12	2.41	5.68	5.02	2.42	5.43	4.95	2.46
		19	27	6.67	5.62	1.87	6.42	5.47	1.99	6.21	5.33	2.06	6.09	5.29	2.45	5.91	5.18	2.47	5.65	5.11	2.50
		20	30	7.32	5.93	1.89	7.05	5.77	2.01	6.82	5.61	2.08	6.69	5.58	2.49	6.49	5.47	2.50	6.21	5.39	2.54
		22	32	7.59	6.01	1.92	7.31	5.84	2.04	7.07	5.68	2.11	6.93	5.66	2.52	6.72	5.55	2.53	6.43	5.47	2.57
		24	34	7.77	6.09	1.94	7.49	5.92	2.06	7.25	5.76	2.13	7.11	5.74	2.54	6.91	5.63	2.54	6.63	5.59	2.59
		26	36	7.95	6.17	1.96	7.67	6.00	2.08	7.43	5.84	2.15	7.29	5.82	2.56	7.09	5.71	2.55	6.81	5.67	2.60
High	1500	14	20	4.97	4.55	1.81	4.78	4.45	1.92	4.63	4.34	1.98	4.46	4.28	2.37	4.42	4.20	2.38	4.23	4.14	2.42
		16	22	5.80	5.15	1.83	5.58	5.02	1.95	5.40	4.90	2.01	5.29	4.84	2.40	5.13	4.75	2.42	4.91	4.68	2.45
		18	25	6.47	5.58	1.86	6.23	5.44	1.98	6.02	5.30	2.05	5.94	5.25	2.44	5.76	5.14	2.45	5.51	5.07	2.49
		19	27	6.78	5.75	1.89	6.52	5.61	2.01	6.30	5.46	2.08	6.18	5.42	2.48	6.00	5.31	2.50	5.74	5.23	2.53
		20	30	7.43	6.08	1.92	7.15	5.91	2.04	6.92	5.75	2.11	6.79	5.70	2.52	6.59	5.60	2.53	6.30	5.52	2.57
		22	32	7.71	6.16	1.95	7.42	5.98	2.07	7.18	5.82	2.14	7.04	5.80	2.56	6.83	5.68	2.56	6.53	5.60	2.60
		24	34	7.89	6.24	1.97	7.60	6.06	2.09	7.36	5.90	2.16	7.22	5.88	2.58	7.04	5.76	2.57	6.75	5.68	2.61
		26	36	8.07	6.32	1.99	7.78	6.14	2.11	7.54	6.00	2.18	7.40	5.96	2.60	7.22	5.84	2.58	6.93	5.76	2.62

◆ Symbol

APR : Air Flow Rate

DB : Dry Bulb Temperature

WB : Wet Bulb Temperature

TC : Total Capacity

SHC : Sensible Heating Capacity

PI : Power Input

(compressor + indoor fan motor + outdoor fan motor)

◆ Notes

1. All capacities are net. A deduction (cooling) or an addition (heating)

of Capacity due to operating heat of indoor unit motor is reflected.

2. indicates rated capacity at standard condition.

3. Direct interpolation is permissible. Do not extrapolate

4. Capacities are based on the following conditions:

- Interconnecting Piping Length : 5m

- Level Difference : Zero.

30K SYSTEM NET PERFORMANCE DATA

Indoor Model Name		UURL-030TH00-* UVRL-030THB00-*																		
Indoor Model Name	Outdoor Model Name	Indoor Air																		
Fan gear	Air flow Rate m3/h	°CWB	°CDB																	
Outdoor Air Temperature (°CDB)																				
35																				
40																				
43																				
46																				
48																				
52																				
Low		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI							
	14	20	5.53	4.76	2.07	5.33	4.66	2.20	5.15	4.55	2.27	5.34	4.48	2.80	5.18	4.39	2.81	4.96	4.33	2.86
	16	22	6.45	5.39	2.10	6.21	5.26	2.23	6.01	5.13	2.31	6.20	5.07	2.84	6.01	4.97	2.85	5.75	4.90	2.90
	18	25	7.20	5.84	2.13	6.93	5.69	2.27	6.71	5.55	2.34	6.96	5.49	2.88	6.75	5.38	2.89	6.46	5.31	2.94
	19	27	7.54	6.02	2.17	7.26	5.87	2.31	7.02	5.72	2.38	7.25	5.67	2.93	7.03	5.56	2.95	6.73	5.48	2.99
	22	30	8.27	6.36	2.20	7.96	6.19	2.34	7.70	6.02	2.41	7.97	5.99	2.97	7.73	5.87	2.99	7.39	5.78	3.03
	24	32	8.58	6.45	2.23	8.26	6.27	2.37	7.99	6.09	2.45	8.25	6.07	3.01	8.00	5.95	3.03	7.65	5.86	3.07
	14	20	5.71	5.00	2.09	5.50	4.89	2.22	5.32	4.77	2.29	5.52	4.70	2.82	5.35	4.61	2.84	5.12	4.54	2.88
Medium	16	22	6.66	5.65	2.12	6.42	5.52	2.25	6.21	5.38	2.33	6.40	5.32	2.86	6.21	5.21	2.88	5.94	5.14	2.92
	18	25	7.43	6.13	2.15	7.16	5.97	2.29	6.92	5.82	2.36	7.19	5.77	2.90	6.97	5.65	2.92	6.67	5.57	2.96
	19	27	7.78	6.32	2.19	7.49	6.16	2.33	7.25	6.00	2.40	7.49	5.95	2.95	7.26	5.83	2.97	6.94	5.75	3.02
	22	30	8.54	6.68	2.21	8.22	6.49	2.36	7.95	6.32	2.43	8.22	6.28	2.99	7.98	6.16	3.01	7.63	6.07	3.06
	24	32	8.86	6.77	2.25	8.53	6.58	2.39	8.25	6.39	2.47	8.52	6.37	3.03	8.26	6.24	3.05	7.90	6.15	3.10
	14	20	5.80	5.12	2.11	5.58	5.01	2.25	5.40	4.89	2.32	5.60	4.82	2.86	5.43	4.72	2.87	5.19	4.66	2.92
	16	22	6.76	5.79	2.14	6.51	5.66	2.28	6.30	5.52	2.36	6.50	5.45	2.90	6.30	5.34	2.91	6.03	5.27	2.96
	18	25	7.55	6.28	2.18	7.27	6.12	2.31	7.03	5.96	2.39	7.30	5.91	2.94	7.08	5.79	2.95	6.77	5.71	3.00
High	19	27	7.90	6.48	2.21	7.61	6.31	2.35	7.36	6.15	2.43	7.60	6.10	2.99	7.37	5.97	3.01	7.05	5.89	3.05
	22	30	8.67	6.84	2.24	8.35	6.65	2.38	8.07	6.47	2.46	8.35	6.44	3.03	8.10	6.31	3.05	7.75	6.22	3.09
	24	32	9.00	6.93	2.27	8.66	6.74	2.42	8.38	6.55	2.50	8.65	6.53	3.07	8.39	6.40	3.09	8.02	6.30	3.14

36K SYSTEM NET PERFORMANCE DATA

Indoor Model Name		UURL-036TH00-* UVRL-036THB00-*																			
Outdoor Model Name		Indoor Air																			
Fan gear	Air Flow Rate m3/h	°CWB		°CDB		Outdoor Air Temperature (°CDB)															
		35		40		43		46		48		52									
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI								
Low	1600	14	20	6.57	5.86	2.46	6.32	5.73	2.62	6.25	5.60	2.71	6.18	5.52	3.26	5.99	5.41	3.28	5.73	5.33	3.33
		16	22	7.66	6.63	2.50	7.38	6.47	2.66	7.27	6.31	2.75	7.17	6.24	3.31	6.96	6.11	3.33	6.65	6.03	3.38
		18	25	8.55	7.18	2.54	8.23	7.00	2.70	8.14	6.82	2.79	8.06	6.76	3.36	7.81	6.63	3.38	7.47	6.53	3.43
		19	27	8.95	7.41	2.58	8.61	7.22	2.75	8.50	7.04	2.84	8.39	6.98	3.42	8.14	6.84	3.44	7.78	6.74	3.49
		22	30	9.82	7.83	2.61	9.45	7.61	2.78	9.33	7.41	2.87	9.22	7.37	3.46	8.94	7.22	3.49	8.55	7.12	3.54
		24	32	10.19	7.94	2.65	9.81	7.71	2.82	9.68	7.49	2.91	9.55	7.47	3.51	9.26	7.32	3.53	8.86	7.21	3.59
		14	20	6.78	6.15	2.48	6.53	6.02	2.64	6.44	5.87	2.73	6.38	5.79	3.29	6.19	5.67	3.31	5.92	5.59	3.36
		16	22	7.91	6.96	2.52	7.62	6.79	2.68	7.52	6.62	2.77	7.41	6.55	3.34	7.18	6.42	3.36	6.87	6.32	3.41
Medium	1900	18	25	8.83	7.54	2.56	8.50	7.35	2.72	8.41	7.16	2.81	8.32	7.10	3.38	8.07	6.95	3.40	7.72	6.85	3.46
		19	27	9.24	7.78	2.60	8.89	7.58	2.77	8.87	7.38	2.86	8.66	7.32	3.45	8.40	7.18	3.47	8.03	7.07	3.52
		22	30	10.14	8.22	2.64	9.76	7.99	2.80	9.63	7.77	2.90	9.51	7.73	3.49	9.23	7.58	3.51	8.83	7.47	3.57
		24	32	10.52	8.33	2.67	10.13	8.09	2.84	9.99	7.86	2.94	9.86	7.84	3.54	9.56	7.68	3.56	9.14	7.57	3.61
		14	20	6.88	6.30	2.51	6.63	6.16	2.67	6.56	6.02	2.76	6.48	5.93	3.33	6.28	5.81	3.35	6.01	5.73	3.40
		16	22	8.03	7.13	2.55	7.73	6.96	2.71	7.62	6.79	2.80	7.52	6.71	3.38	7.29	6.57	3.40	6.98	6.48	3.45
		18	25	8.96	7.72	2.59	8.63	7.53	2.75	8.52	7.34	2.85	8.45	7.27	3.43	8.19	7.12	3.45	7.83	7.02	3.50
		19	27	9.40	7.97	2.63	9.03	7.77	2.80	8.91	7.56	2.89	8.80	7.50	3.49	8.54	7.35	3.51	8.16	7.25	3.56
High	2100	22	30	10.29	8.42	2.67	9.91	8.19	2.84	9.89	7.96	2.93	9.66	7.92	3.54	9.37	7.76	3.56	8.96	7.65	3.61
		24	32	10.68	8.53	2.71	10.28	8.29	2.88	10.14	8.06	2.97	10.01	8.03	3.58	9.71	7.87	3.60	9.28	7.76	3.66

42K SYSTEM NET PERFORMANCE DATA

Indoor Model Name		UIRL-042NH00-*																											
Outdoor Model Name		UVRL-042NHB00-*																											
Fan gear	Air flow Rate m3/h	Indoor Air Temperature		Outdoor Air Temperature (°CDB)																									
		°CWB	°CDB	35				40				43				46				48				52					
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	
Low	1700	14	8.19	6.97	3.08	7.89	6.81	3.27	7.63	6.65	3.38	7.20	6.56	3.76	6.99	6.43	3.79	6.68	6.33	3.85									
		16	9.56	7.88	3.12	9.20	7.70	3.32	8.90	7.50	3.43	8.36	7.42	3.82	8.11	7.27	3.84	7.76	7.16	3.90									
		18	10.66	8.54	3.17	10.27	8.33	3.37	9.93	8.11	3.49	9.39	8.04	3.87	9.11	7.88	3.89	8.71	7.76	3.95									
		19	11.16	8.81	3.23	10.75	8.59	3.43	10.39	8.36	3.54	9.78	8.29	3.94	9.48	8.13	3.97	9.07	8.01	4.03									
		22	12.25	9.31	3.27	11.79	9.05	3.48	11.41	8.80	3.59	10.74	8.76	4.00	10.42	8.58	4.02	9.97	8.46	4.08									
		24	12.71	9.43	3.32	12.24	9.17	3.53	11.84	8.91	3.64	11.13	8.88	4.05	10.80	8.70	4.07	10.32	8.58	4.14									
		32	12.71	9.43	3.32	12.24	9.17	3.53	11.84	8.91	3.64	11.13	8.88	4.05	10.80	8.70	4.07	10.32	8.58	4.14									
Medium	2100	14	8.46	7.31	3.10	8.14	7.15	3.30	7.88	6.68	3.41	7.44	6.88	3.80	7.22	6.74	3.82	6.90	6.65	3.88									
		16	9.87	8.27	3.15	9.50	8.08	3.35	9.19	7.88	3.46	8.63	7.78	3.85	8.38	7.63	3.87	8.01	7.52	3.93									
		18	11.01	8.96	3.20	10.60	8.74	3.40	10.25	8.51	3.51	9.70	8.43	3.90	9.41	8.27	3.93	9.00	8.15	3.99									
		19	11.52	9.25	3.25	11.10	9.01	3.46	10.73	8.78	3.57	10.10	8.71	3.97	9.79	8.53	4.00	9.36	8.41	4.06									
		22	12.65	9.77	3.29	12.18	9.50	3.50	11.78	9.24	3.62	11.09	9.19	4.03	10.76	9.01	4.05	10.29	8.88	4.11									
		24	13.12	9.90	3.34	12.64	9.62	3.55	12.22	9.35	3.67	11.49	9.32	4.08	11.15	9.13	4.11	10.66	9.00	4.17									
		32	13.12	9.90	3.34	12.64	9.62	3.55	12.22	9.35	3.67	11.49	9.32	4.08	11.15	9.13	4.11	10.66	9.00	4.17									
High	2300	14	8.59	7.49	3.14	8.27	7.33	3.34	8.00	7.15	3.45	7.55	7.05	3.84	7.33	6.91	3.86	7.01	6.81	3.92									
		16	10.02	8.47	3.19	9.65	8.27	3.39	9.33	8.07	3.50	8.77	7.98	3.90	8.50	7.82	3.92	8.13	7.70	3.98									
		18	11.18	9.18	3.24	10.76	8.95	3.44	10.41	8.72	3.56	9.84	8.64	3.95	9.55	8.47	3.97	9.13	8.35	4.03									
		19	11.70	9.48	3.29	11.26	9.23	3.50	10.90	8.99	3.62	10.25	8.92	4.02	9.94	8.74	4.05	9.51	8.62	4.11									
		22	12.84	10.01	3.33	12.36	9.73	3.55	11.96	9.47	3.66	11.26	9.42	4.08	10.92	9.23	4.10	10.45	9.10	4.16									
		24	13.32	10.14	3.38	12.83	9.86	3.60	12.41	9.58	3.72	11.67	9.55	4.13	11.32	9.36	4.16	10.82	9.22	4.22									
		32	13.32	10.14	3.38	12.83	9.86	3.60	12.41	9.58	3.72	11.67	9.55	4.13	11.32	9.36	4.16	10.82	9.22	4.22									

48K SYSTEM NET PERFORMANCE DATA - SINGLE PHASE

Indoor Model Name		UIRL-048TH00-*																			
Outdoor Model Name		UVRL-048THB00-*																			
Fan gear	Air Flow Rate CFM m3/h	Indoor Air Temperature		Outdoor Air Temperature (°CDB)																	
		°CWB	°CDB	35			40			43			46			48			52		
Low	2100	14	20	9.23	8.24	3.46	8.89	8.06	3.68	8.77	7.87	3.80	8.65	7.76	4.52	8.03	7.49	4.61			
		16	22	10.77	9.32	3.52	10.37	9.10	3.74	10.19	8.88	3.86	10.04	8.77	4.58	9.32	8.47	4.68			
		18	25	12.02	10.10	3.57	11.57	9.85	3.80	11.44	9.60	3.92	11.28	9.51	4.65	10.46	9.18	4.75			
		19	27	12.58	10.43	3.63	12.11	10.16	3.86	11.92	9.89	3.99	11.74	9.81	4.73	10.89	9.48	4.83			
		22	30	13.81	11.01	3.68	13.29	10.71	3.91	12.11	10.41	4.04	12.90	10.36	4.80	11.97	10.01	4.90			
		24	32	14.33	11.16	3.73	13.80	10.84	3.97	13.58	10.54	4.10	13.37	10.50	4.86	12.40	10.15	4.96			
		32		14.33	11.16	3.73	13.80	10.84	3.97	13.58	10.54	4.10	13.37	10.50	4.86	12.40	10.15	4.96			
Medium	2500	14	20	9.53	8.65	3.49	9.18	8.46	3.71	9.06	8.26	3.84	8.93	8.14	4.56	8.29	7.86	4.65			
		16	22	11.12	9.78	3.54	10.71	9.55	3.77	10.54	9.32	3.89	10.37	9.21	4.62	8.89	8.47	4.72			
		18	25	12.41	10.60	3.60	11.95	10.34	3.83	11.80	10.07	3.95	11.65	9.98	4.68	10.80	9.64	4.78			
		19	27	12.99	10.94	3.66	12.51	10.66	3.89	12.21	10.38	4.02	12.12	10.30	4.77	11.25	9.95	4.84			
		22	30	14.26	11.55	3.71	13.73	11.24	3.94	13.52	10.93	4.07	13.32	10.87	4.83	12.36	10.50	4.94			
		24	32	14.79	11.71	3.76	14.24	11.38	4.00	14.02	11.06	4.13	13.80	11.02	4.90	12.80	10.65	5.00			
		32		14.79	11.71	3.76	14.24	11.38	4.00	14.02	11.06	4.13	13.80	11.02	4.90	12.80	10.65	5.00			
High	2800	14	20	9.68	8.86	3.53	9.32	8.67	3.76	9.19	8.46	3.88	9.07	8.34	4.61	8.41	8.06	4.71			
		16	22	11.29	10.02	3.59	10.87	9.79	3.82	10.70	9.55	3.94	10.53	9.43	4.68	9.77	9.11	4.78			
		18	25	12.60	10.86	3.64	12.13	10.59	3.87	11.97	10.32	4.00	11.82	10.22	4.74	10.97	9.87	4.84			
		19	27	13.20	11.21	3.70	12.70	10.92	3.94	12.49	10.64	4.07	12.30	10.55	4.83	11.42	10.19	4.93			
		22	30	14.47	11.84	3.75	13.94	11.51	3.99	13.72	11.20	4.12	13.52	11.14	4.89	12.54	10.76	5.00			
		24	32	15.02	12.00	3.81	14.46	11.66	4.05	14.23	11.33	4.18	14.01	11.29	4.96	13.00	10.91	5.06			
		32		15.02	12.00	3.81	14.46	11.66	4.05	14.23	11.33	4.18	14.01	11.29	4.96	13.00	10.91	5.06			

48K SYSTEM NET PERFORMANCE DATA - THREE PHASE

Indoor Model Name Outdoor Model Name Air flow Rate m3/h		UIRL-048NH00- UVRL-048NHB00-*		Outdoor Air Temperature (°CDB)																							
Fan gear	Indoor Air Temperature	°CWB	%CDB	35			40			43			46			48			52								
				TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI						
Low	2100	14	20	9.63	8.19	3.60	9.27	8.01	3.83	8.97	7.82	3.96	8.66	7.71	4.63	8.59	7.55	4.65	8.22	7.44	4.72						
		16	22	11.23	9.26	3.66	10.81	9.04	3.89	10.46	8.82	4.02	10.28	8.72	4.69	9.97	8.54	4.72	9.54	8.72	4.79						
		18	25	12.53	10.04	3.71	12.07	9.79	3.95	11.67	9.53	4.08	11.55	9.45	4.76	11.20	9.26	4.79	10.71	9.12	4.86						
		19	27	13.12	10.36	3.77	12.63	10.09	4.02	12.22	9.83	4.15	12.02	9.75	4.84	11.66	9.55	4.87	11.15	9.42	4.95						
		22	30	14.40	10.94	3.82	13.86	10.64	4.07	13.41	10.35	4.20	13.21	10.29	4.91	12.81	10.09	4.94	12.25	9.94	5.01						
		24	32	14.94	11.09	3.88	14.38	10.77	4.13	13.91	10.47	4.26	13.68	10.44	4.98	13.27	10.23	5.00	12.69	10.08	5.08						
		14	20	9.94	8.59	3.63	9.57	8.40	3.86	9.26	8.20	3.99	9.15	8.09	4.66	8.87	7.93	4.69	8.48	7.81	4.76						
		16	22	11.60	9.72	3.69	11.17	9.49	3.92	10.80	9.26	4.05	10.62	9.15	4.73	10.30	8.96	4.76	9.85	8.84	4.83						
Medium	2500	18	25	12.94	10.57	3.74	12.46	10.27	3.98	12.05	10.00	4.11	11.92	9.91	4.80	11.57	9.71	4.82	11.06	9.58	4.90						
		19	27	13.54	10.83	3.81	13.04	10.59	4.05	12.61	10.31	4.18	12.41	10.23	4.88	12.04	10.03	4.91	11.51	9.88	4.99						
		22	30	14.86	11.48	3.85	14.31	11.16	4.10	13.84	10.86	4.24	13.64	10.80	4.95	13.23	10.59	4.98	12.65	10.43	5.05						
		24	32	15.42	11.64	3.91	14.85	11.30	4.16	14.36	10.99	4.30	14.13	10.95	5.02	13.70	10.73	5.05	13.10	10.58	5.12						
		14	20	10.09	8.80	3.67	9.72	8.61	3.91	9.40	8.41	4.04	9.29	8.29	4.72	9.01	8.12	4.75	8.61	8.00	4.82						
		16	22	11.77	9.96	3.73	11.34	9.72	3.97	10.97	9.48	4.10	10.78	9.37	4.79	10.45	9.19	4.82	10.00	9.05	4.89						
		18	25	13.14	10.79	3.79	12.65	10.52	4.03	12.24	10.25	4.16	12.10	10.16	4.85	11.74	9.95	4.88	11.23	9.81	4.96						
		19	27	13.75	11.14	3.85	13.24	10.85	4.10	12.80	10.57	4.23	12.60	10.48	4.94	12.22	10.27	4.97	11.69	10.12	5.05						
High	2800	22	30	15.09	11.76	3.90	14.53	11.44	4.15	14.05	11.12	4.29	13.85	11.07	5.01	13.43	10.85	5.04	12.87	10.69	5.12						
		24	32	15.66	11.92	3.96	15.08	11.58	4.21	14.58	11.26	4.35	14.34	11.22	5.08	13.91	11.00	5.11	13.30	10.84	5.18						

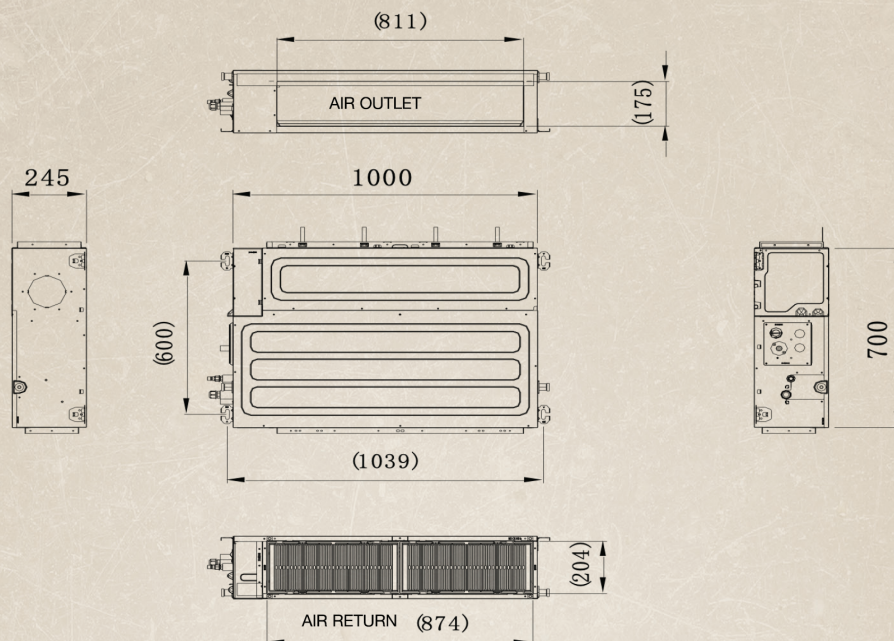
55K SYSTEM NET PERFORMANCE DATA - SINGLE PHASE

Indoor Model Name		Outdoor Air Temperature (°CDB)									
Outdoor Model Name		Indoor Air Temperature									
Fan gear	Air Flow Rate	°CWB		°CDB		35		40		43	
		CFM m3/h	°CWB	°CDB	TC	SHC	PI	TC	SHC	PI	TC
Low	2500	14	20	10.68	9.52	4.00	10.27	9.31	4.26	9.94	9.09
		16	22	12.45	10.77	4.06	11.99	10.52	4.32	11.59	10.26
		18	25	13.89	11.67	4.12	13.38	11.38	4.39	12.94	11.09
		19	27	14.54	12.05	4.19	14.00	11.74	4.46	13.54	11.43
		22	30	15.96	12.72	4.25	15.36	12.37	4.52	14.86	12.03
		24	32	16.56	12.90	4.31	15.94	12.53	4.58	15.42	12.18
		14	20	11.02	9.99	4.03	10.61	9.78	4.29	10.26	9.54
		16	22	12.85	11.31	4.10	12.38	11.04	4.36	11.97	10.77
Medium	2800	18	25	14.34	12.25	4.16	13.81	11.94	4.42	13.36	11.64
		19	27	15.01	12.64	4.23	14.45	12.32	4.50	13.98	12.00
		22	30	16.47	13.35	4.28	15.86	12.98	4.56	15.34	12.63
		24	32	17.10	13.53	4.35	16.46	13.15	4.62	15.92	12.78
		14	20	11.18	10.24	4.08	10.77	10.02	4.34	10.42	9.78
		16	22	13.05	11.58	4.15	12.57	11.31	4.41	12.15	11.03
		18	25	14.56	12.55	4.21	14.02	12.24	4.48	13.56	11.92
		19	27	15.25	12.95	4.28	14.67	12.62	4.55	14.19	12.29
High	3100	22	30	16.72	13.68	4.33	16.10	13.30	4.61	15.58	12.94
		24	32	17.36	13.87	4.40	16.71	13.47	4.68	16.16	13.09

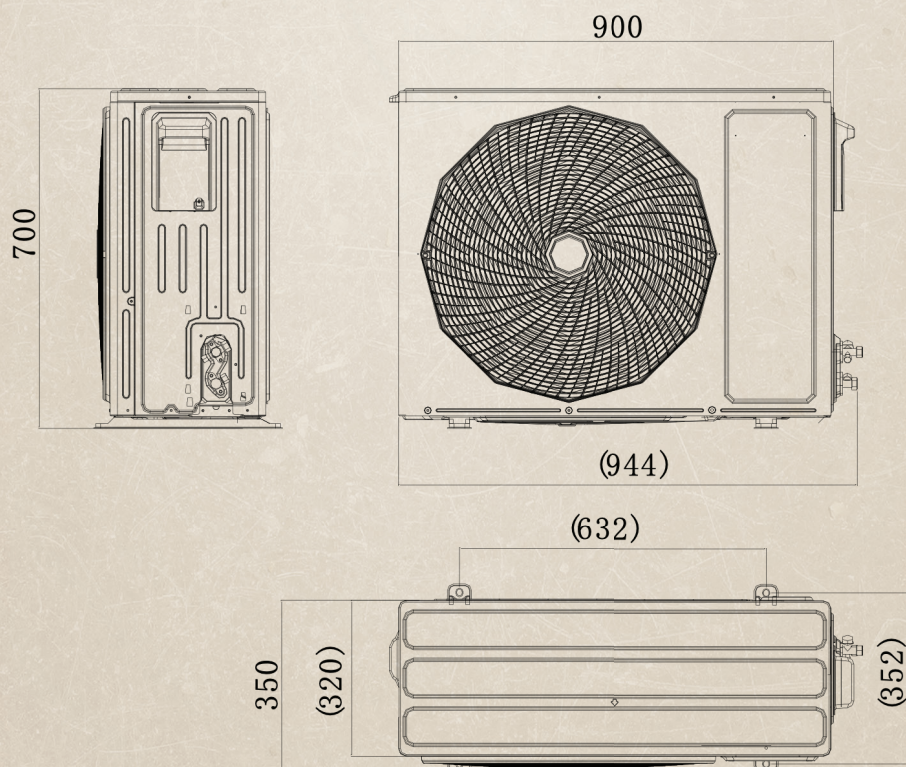
55K SYSTEM NET PERFORMANCE DATA - THREE PHASE

Indoor Model Name		Outdoor Air Temperature (°CDB)									
Outdoor Model Name		Indoor Air Temperature									
Fan gear	Air flow Rate	°CWB		°CDB		35		40		43	
		m3/h	°CWB	°CDB	TC	SHC	PI	TC	SHC	PI	TC
Low	2500	14	20	10.68	9.08	4.00	10.28	8.88	4.26	9.94	8.67
		16	22	12.46	10.27	4.06	11.99	10.03	4.32	11.60	9.78
		18	25	13.90	11.13	4.12	13.38	10.85	4.39	12.95	10.57
		19	27	14.55	11.49	4.19	14.01	11.19	4.46	13.55	10.90
		22	30	15.97	12.13	4.25	15.37	11.80	4.52	14.87	11.47
		24	32	16.57	12.30	4.31	15.95	11.95	4.58	15.43	11.61
		14	20	11.02	9.53	4.03	10.61	9.32	4.29	10.27	9.10
		16	22	12.86	10.78	4.10	12.38	10.53	4.36	11.98	10.27
Medium	2800	18	25	14.35	11.68	4.16	13.82	11.39	4.42	13.37	11.10
		19	27	15.02	12.06	4.23	14.46	11.75	4.50	13.99	11.44
		22	30	16.48	12.73	4.28	15.87	12.38	4.56	15.35	12.04
		24	32	17.11	12.91	4.35	16.47	12.54	4.62	15.93	12.19
		14	20	11.19	9.76	4.08	10.78	9.55	4.34	10.42	9.32
		16	22	13.06	11.04	4.15	12.57	10.78	4.41	12.16	10.52
		18	25	14.57	11.97	4.21	14.03	11.67	4.48	13.57	11.37
		19	27	15.25	12.35	4.28	14.68	12.04	4.55	14.20	11.72
High	3100	22	30	16.74	13.04	4.33	16.11	12.68	4.61	15.59	12.34
		24	32	17.37	13.22	4.40	16.72	12.85	4.68	16.17	12.49

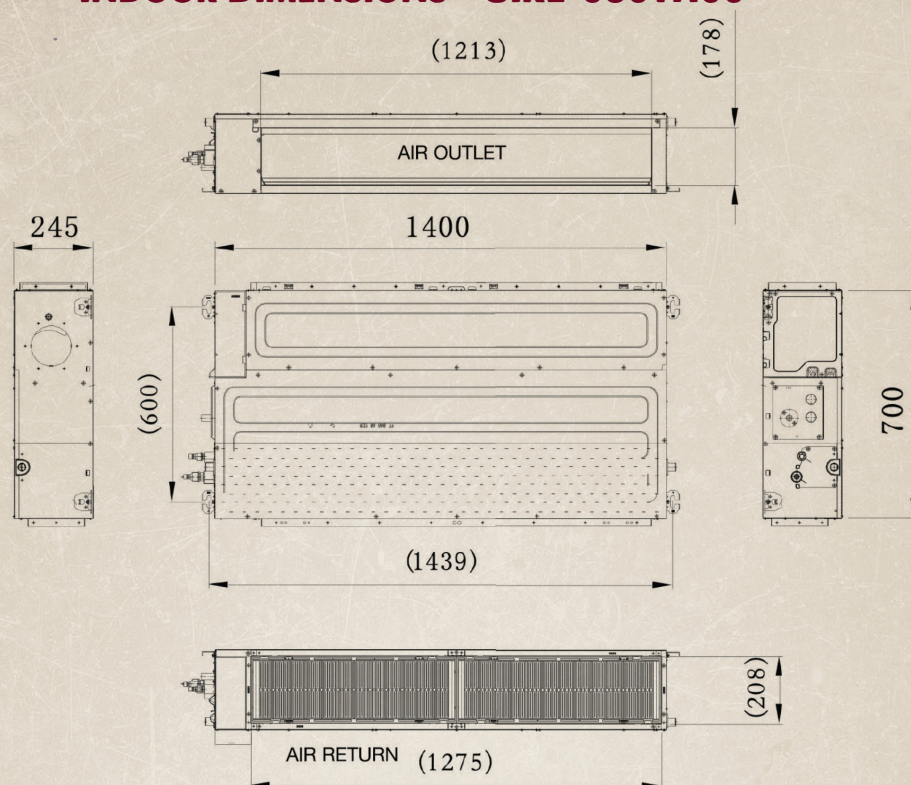
INDOOR DIMENSIONS - UIRL-018TH00-* / UIRL-024TH00-*



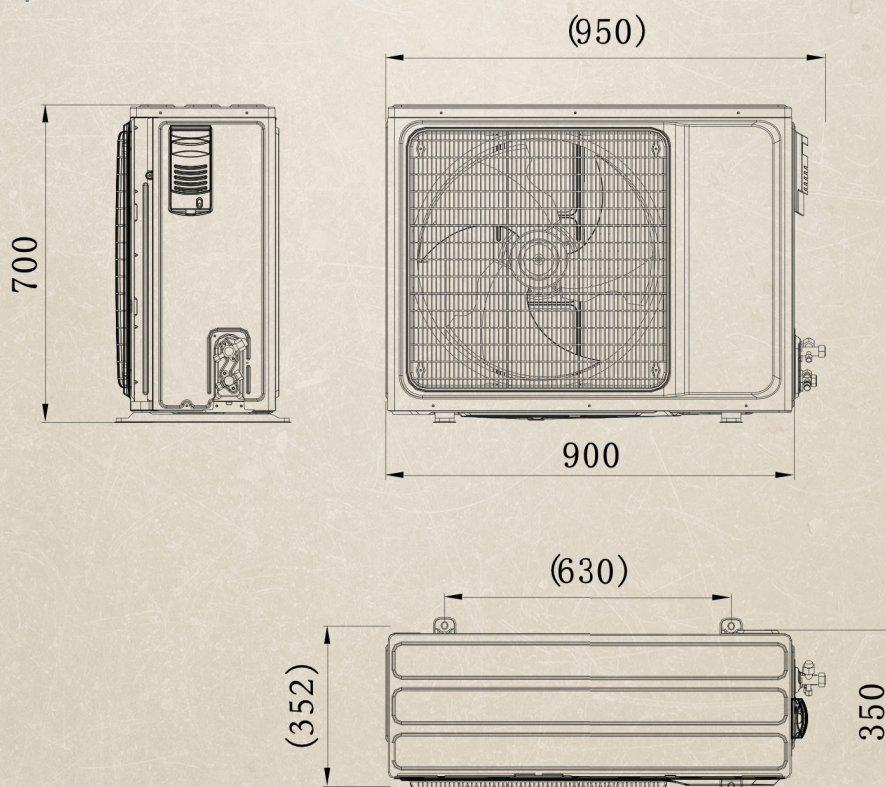
OUTDOOR DIMENSIONS - UVRL-018THB00-* / UVRL-024THB00-*



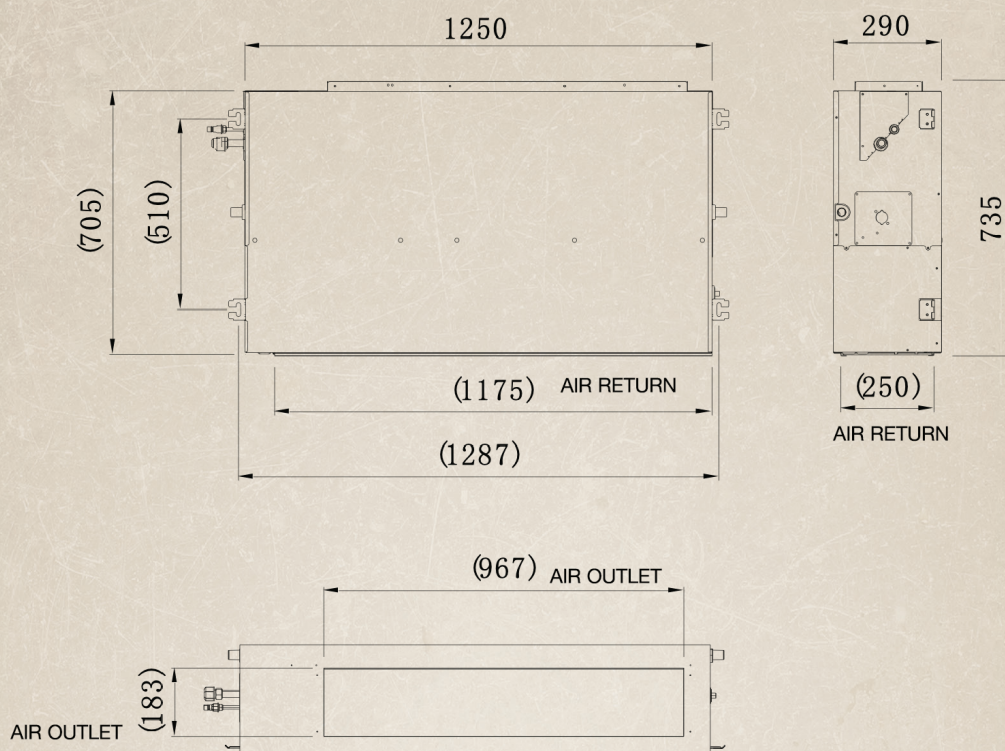
INDOOR DIMENSIONS - UIRL-030TH00-*



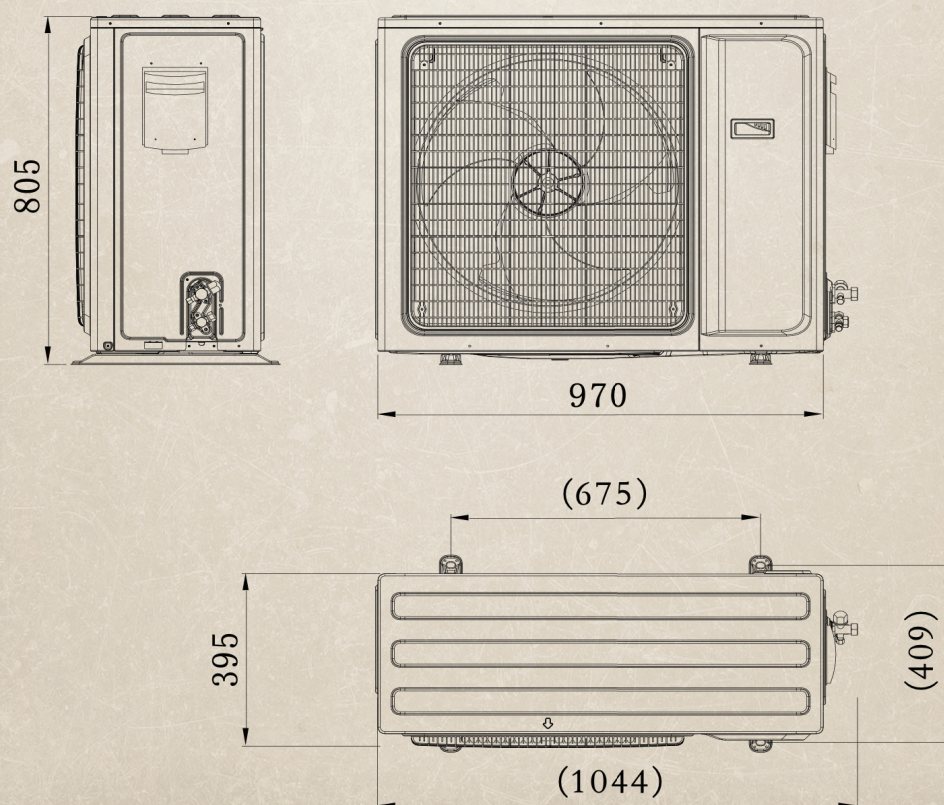
OUTDOOR DIMENSIONS - UVRL-030THB00-*



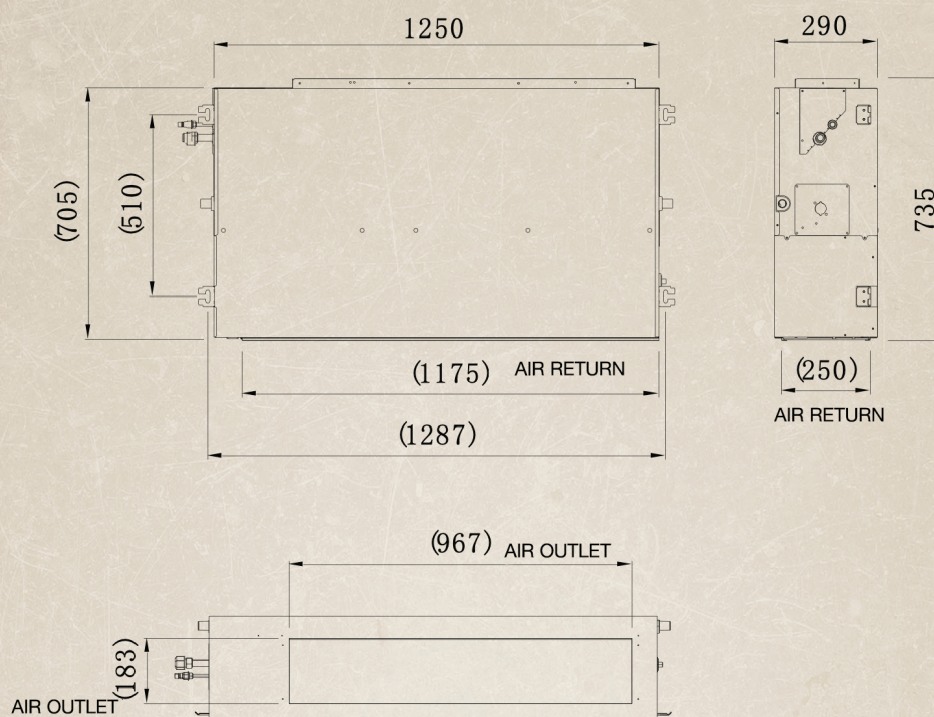
INDOOR DIMENSIONS - UIRL-036TH00-*



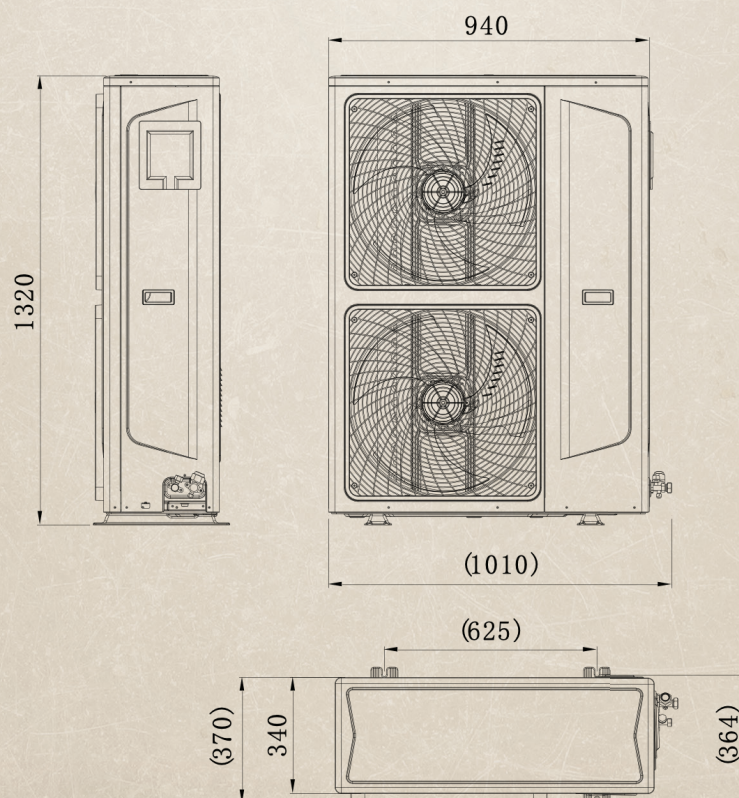
OUTDOOR DIMENSIONS - UVRL-036THB00-*



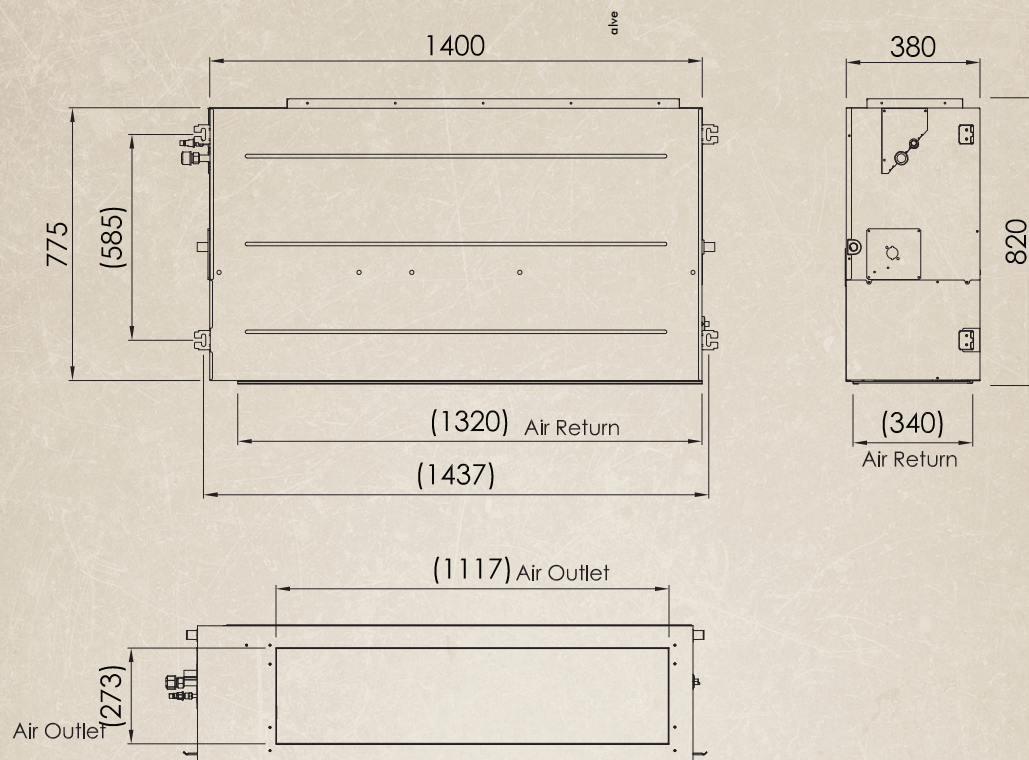
INDOOR DIMENSIONS - UIRL-042NH00-*



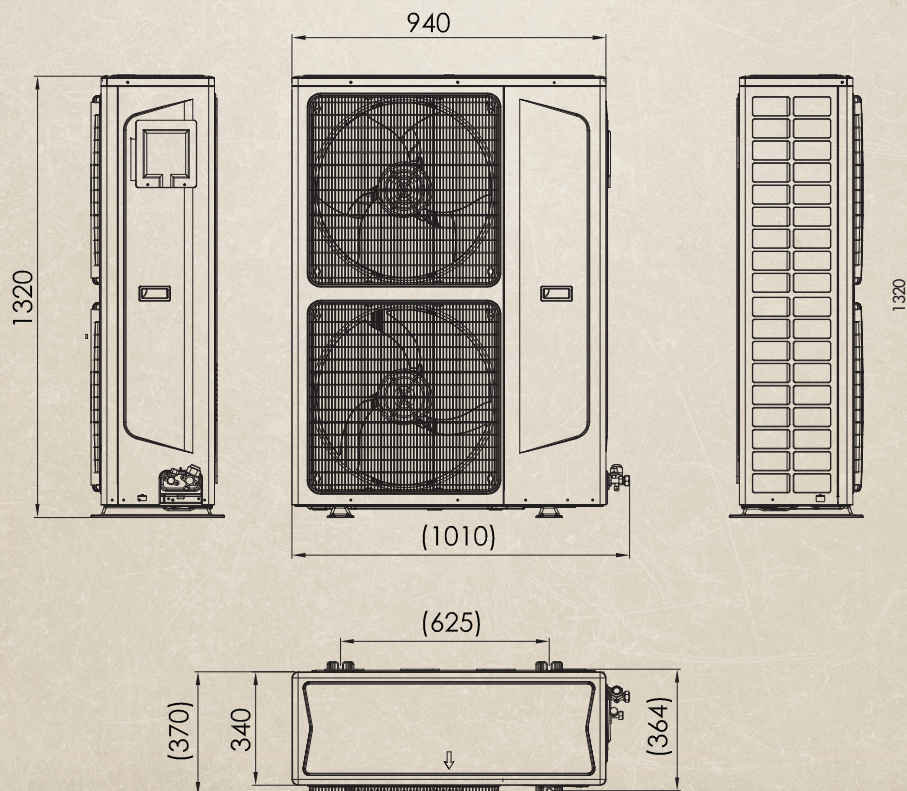
OUTDOOR DIMENSIONS - UVRL-042NHB00-*



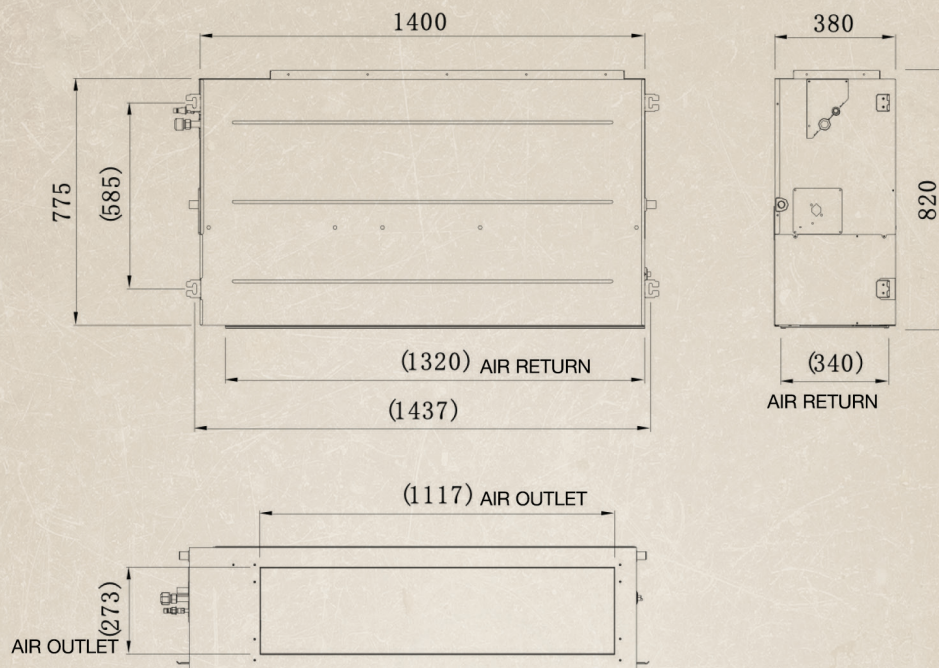
INDOOR DIMENSIONS - UIRL-048TH00-*



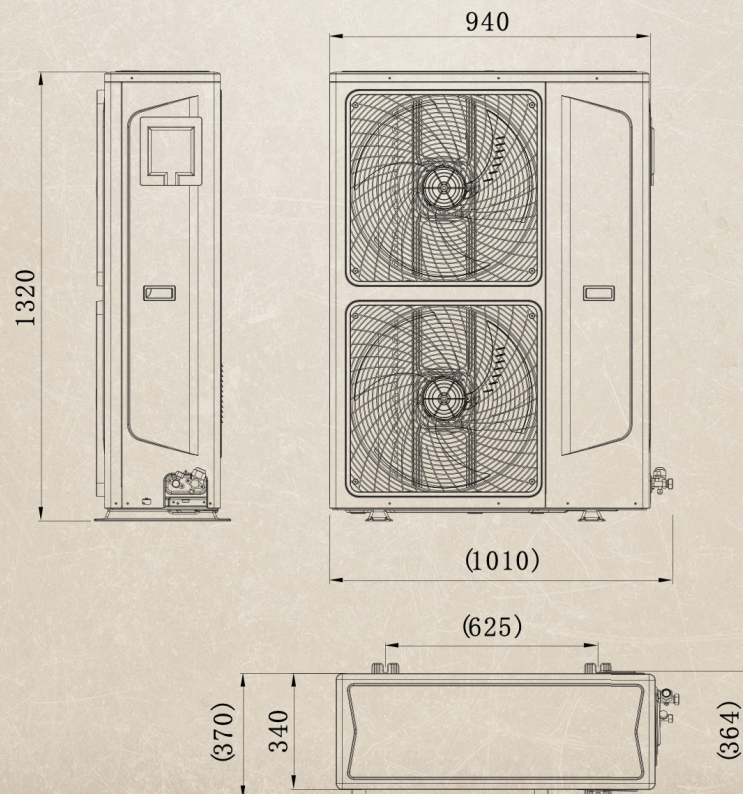
OUTDOOR DIMENSIONS - UVRL-048THB00-*



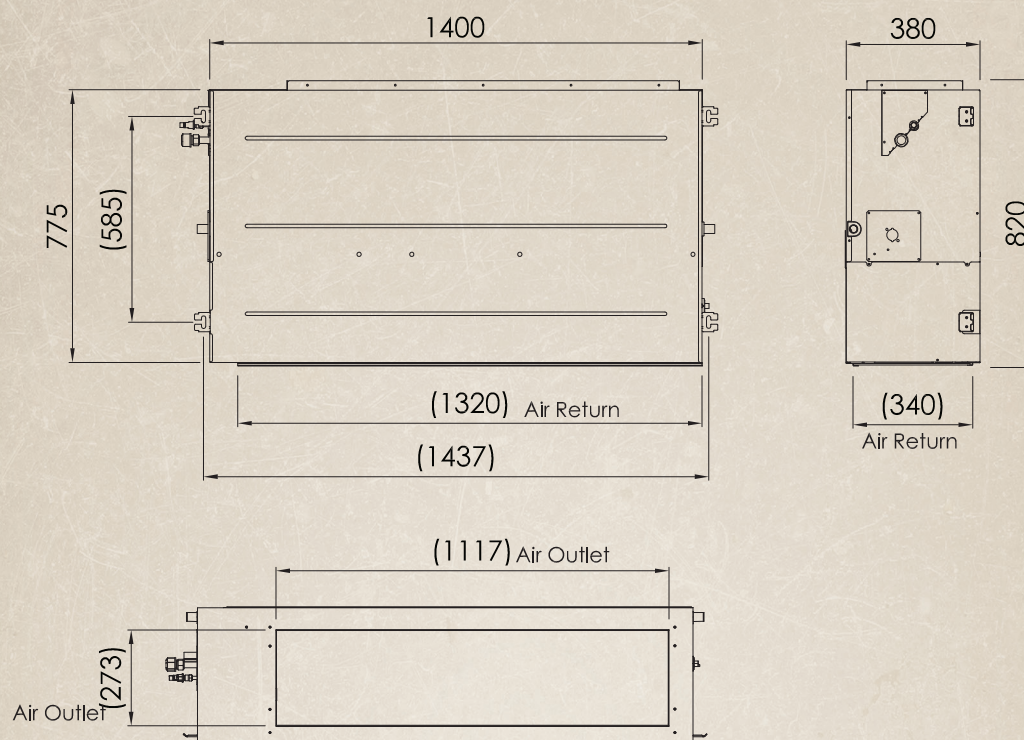
INDOOR DIMENSIONS - UIRL-048TH00-*



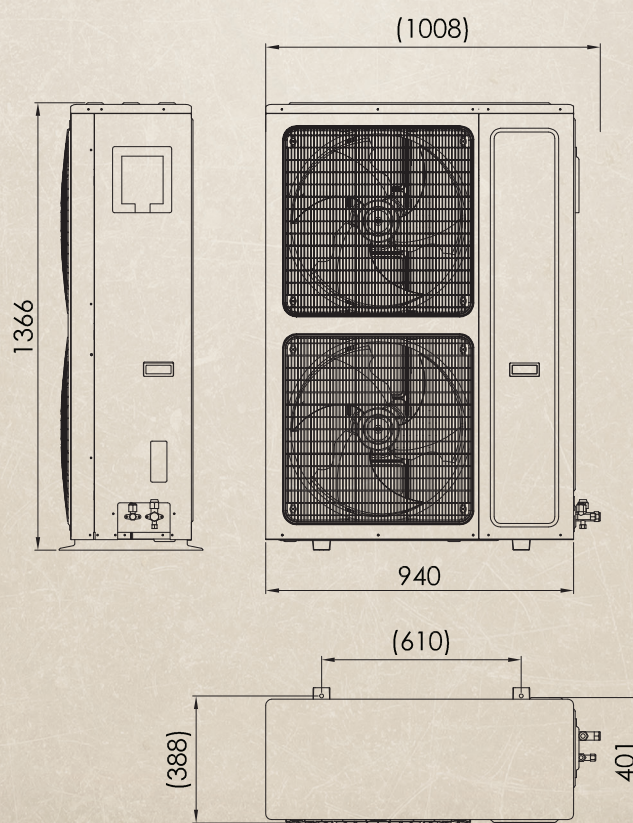
OUTDOOR DIMENSIONS - UVRL-048NHB00-*



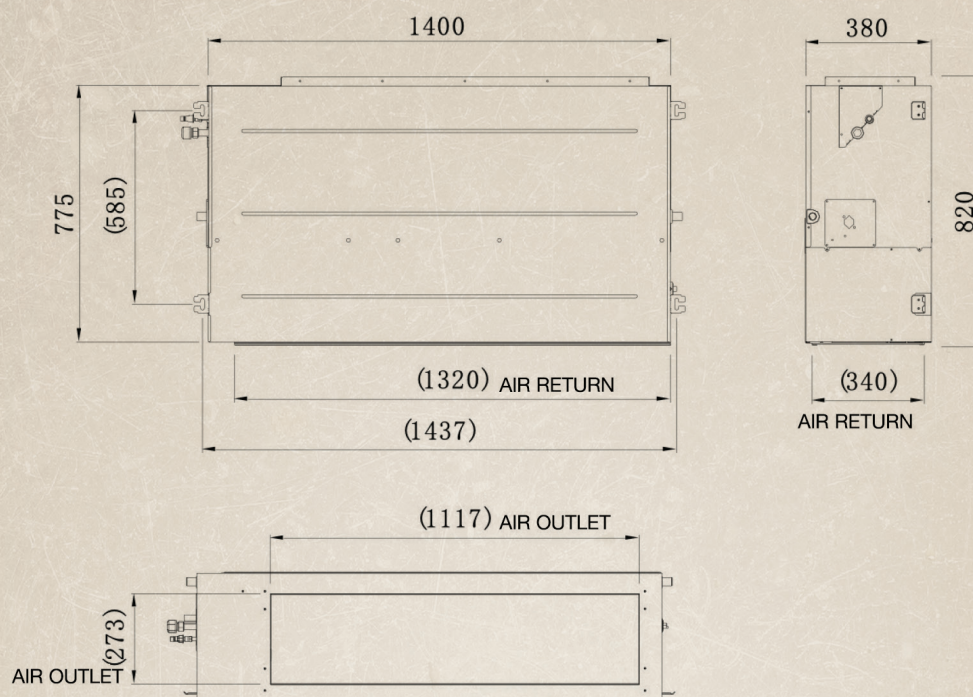
INDOOR DIMENSIONS - UIRL-055TH00-*



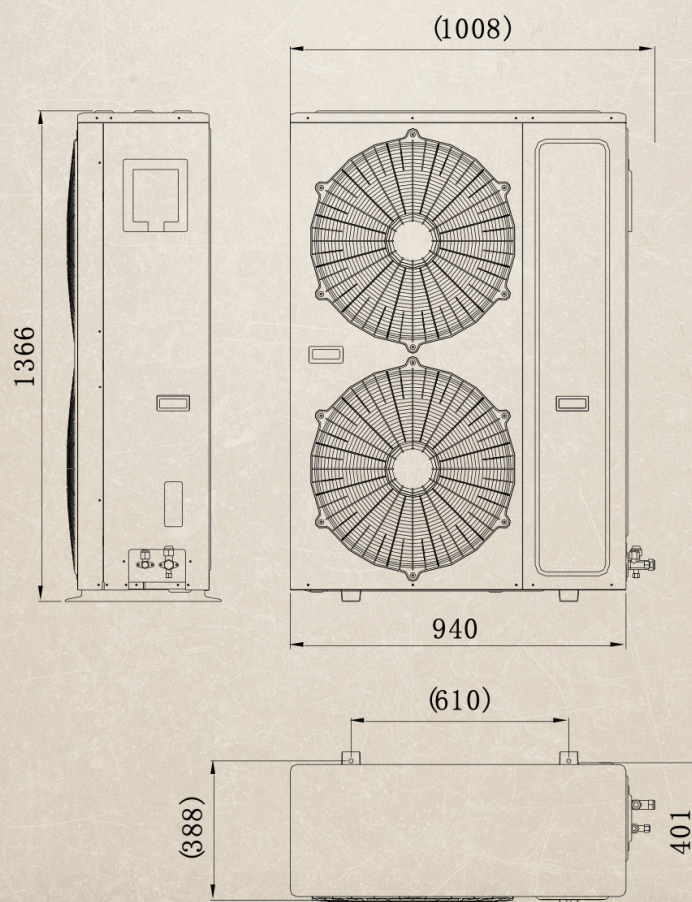
OUTDOOR DIMENSIONS - UVRL-055THB00-*



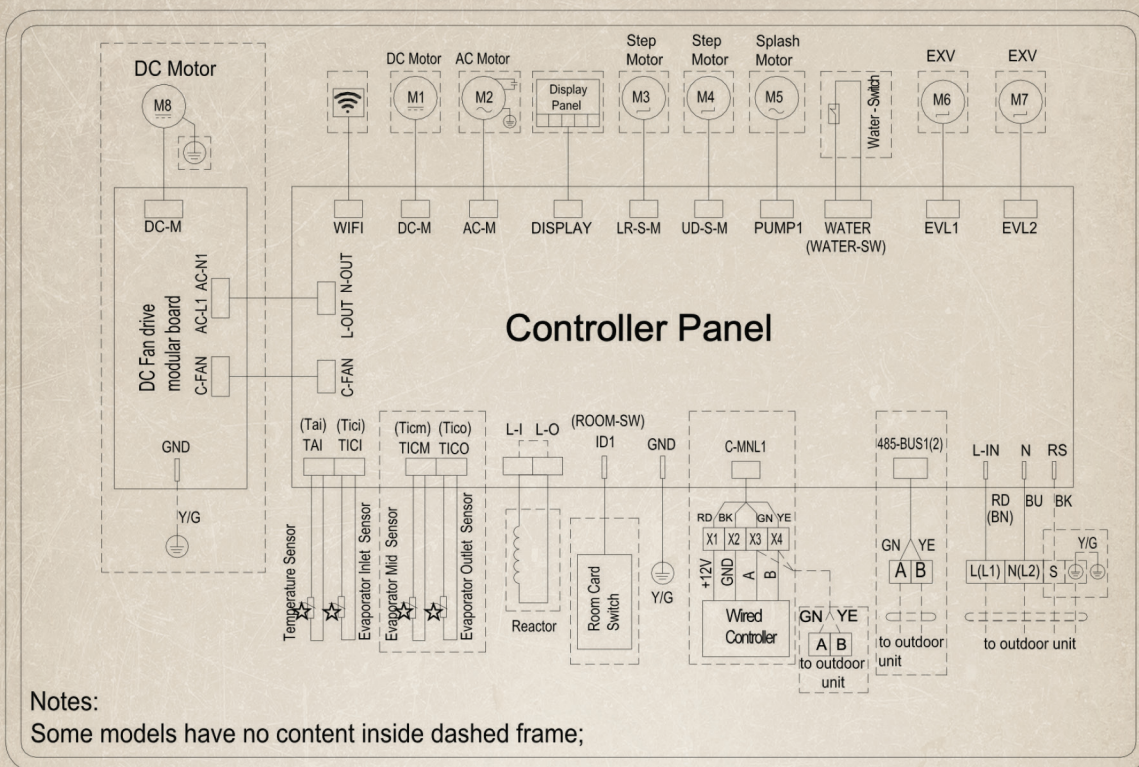
INDOOR DIMENSIONS - UIRL-055TH00-*



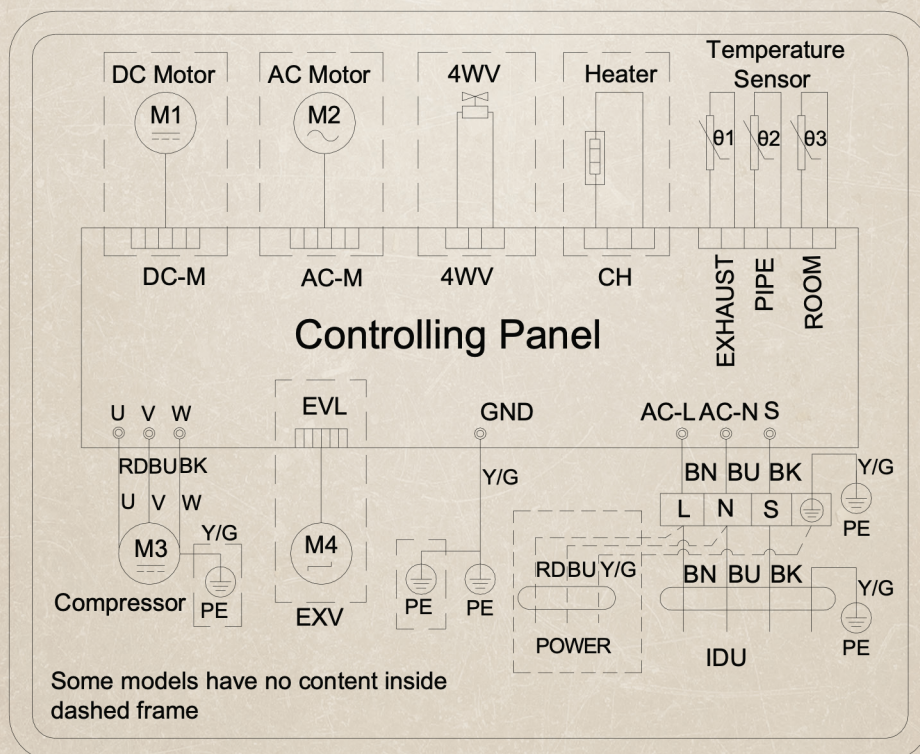
OUTDOOR DIMENSIONS - UVRL-055NHB00-*



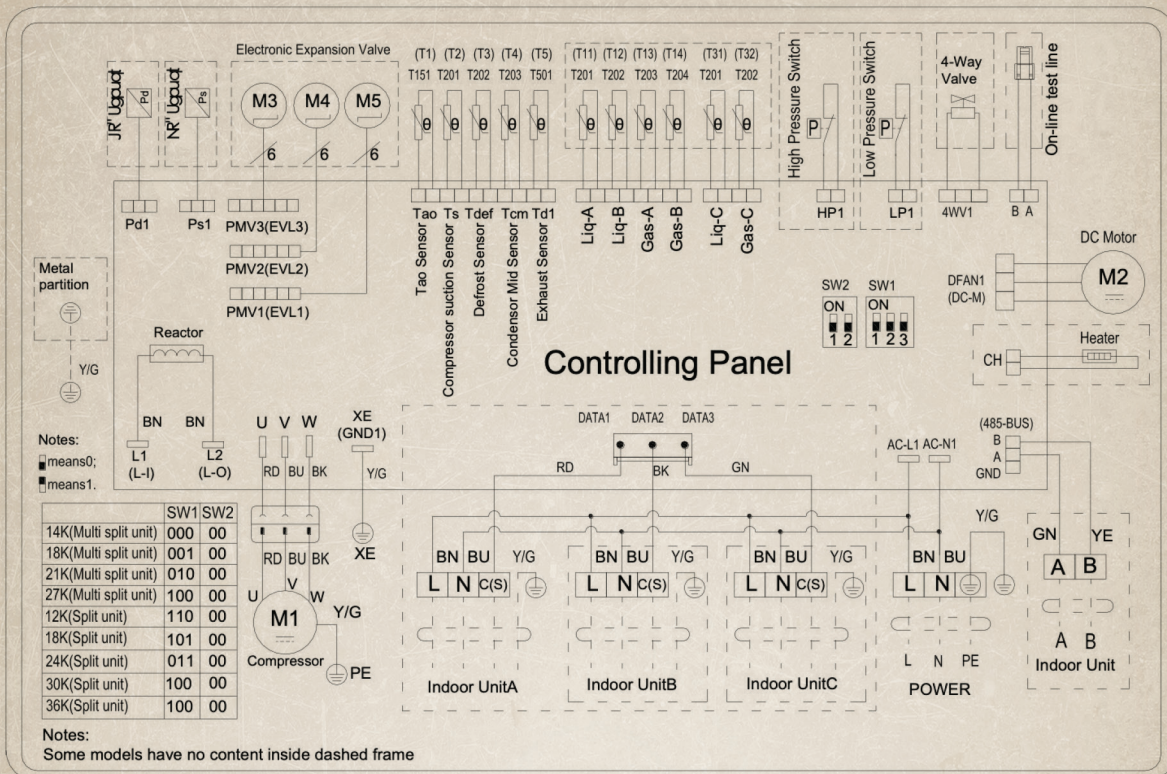
ALL INDOOR MODELS WIRING DIAGRAM



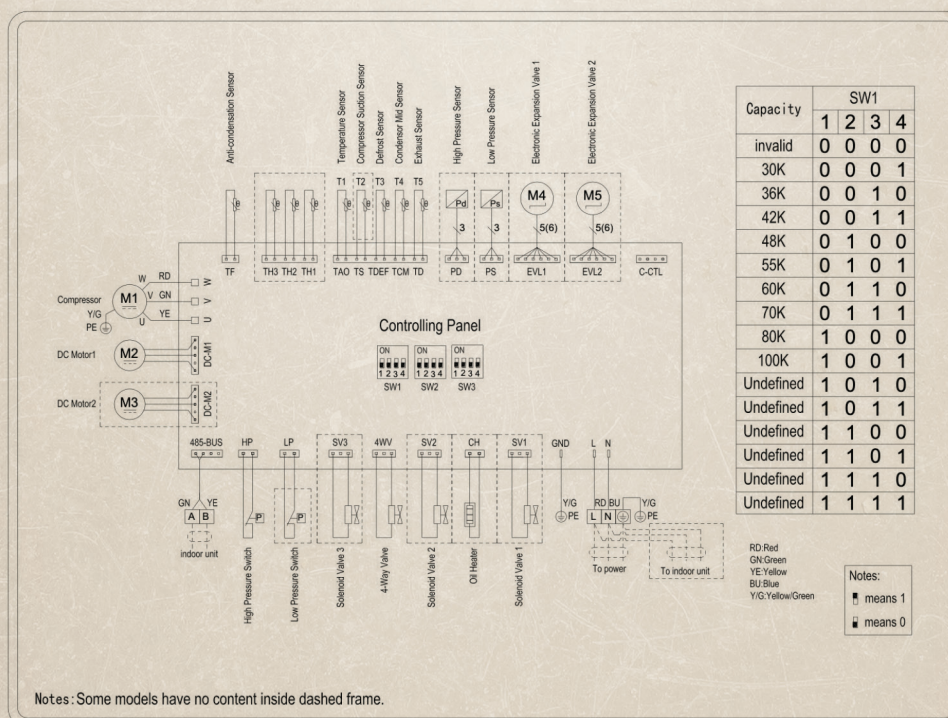
OUTDOOR MODELS WIRING DIAGRAM UVRL-018THB00-* /UVRL-024THB00-*



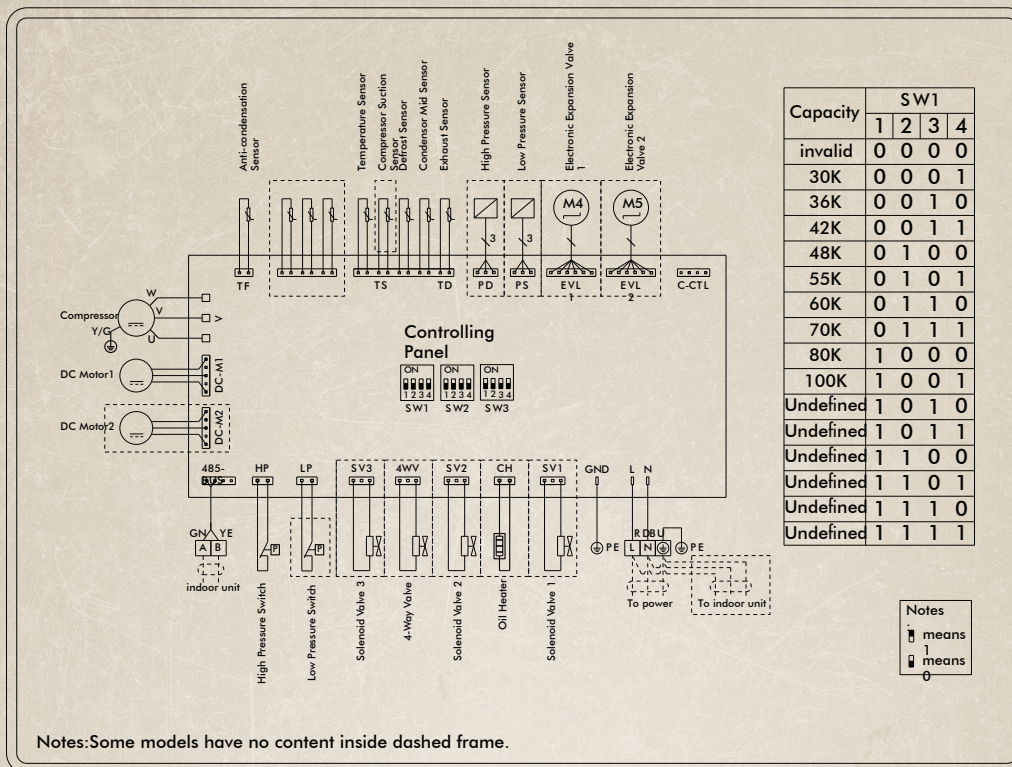
OUTDOOR MODEL WIRING DIAGRAM - UVRL-030THB00-*



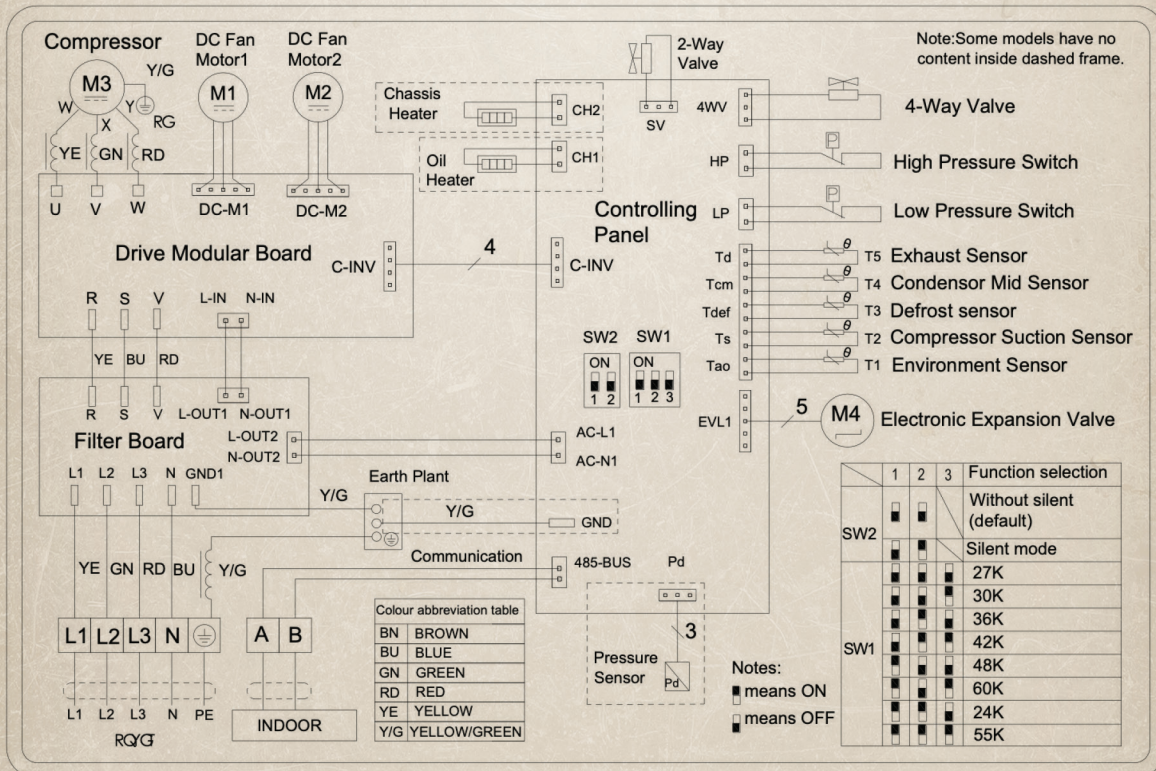
OUTDOOR MODEL WIRING DIAGRAM - UVRL-036THB00-*



OUTDOOR MODELS WIRING DIAGRAM UVRL-048THB00-* / UVRL-055THB00-*



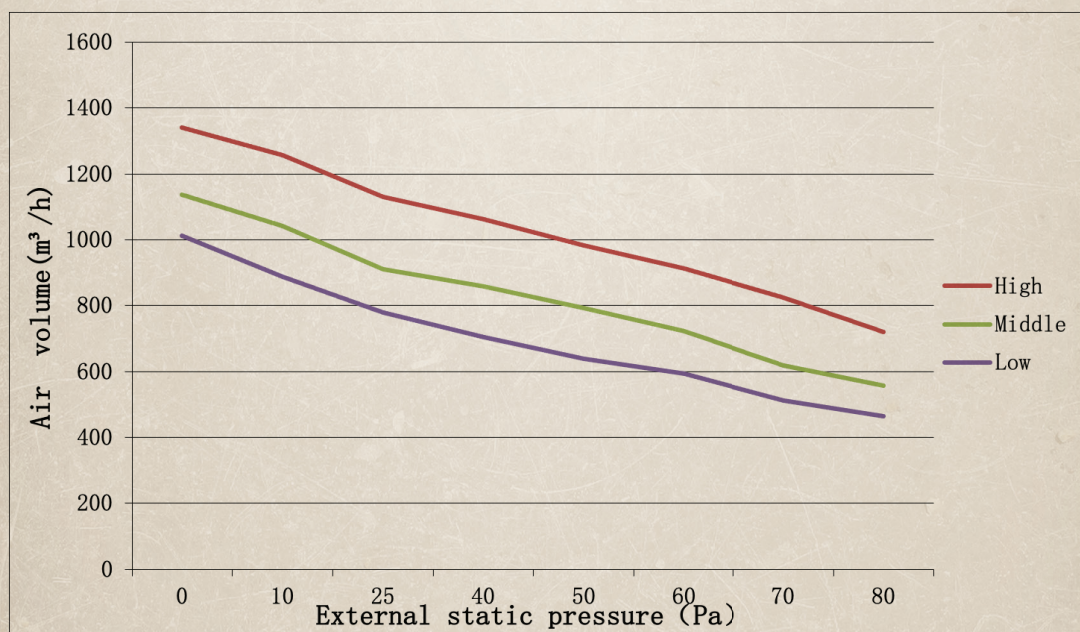
OUTDOOR MODEL WIRING DIAGRAM UVRL-042NHB00-* / UVRL-048NHB00-* / UVRL-055NHB00-*



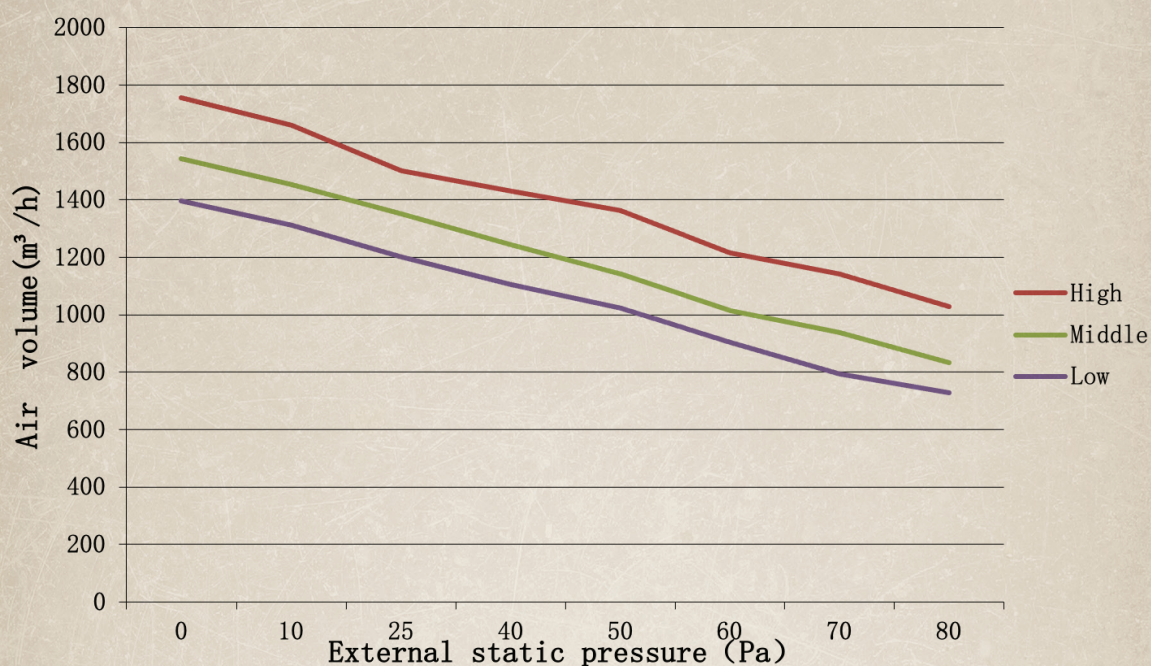
SOUND LEVEL DATA

MODELS	NOISE LEVEL UNDER THREE SPEEDS OF FAN (DB(A))		
	H	M	L
UIRL-018TH00-*	42	39	38
UIRL-024TH00-*	45	43	41
UIRL-030TH00-*	47	45	44
UIRL-036TH00-*	45	42	40
UIRL-042NH00-*	48	45	43
UIRL-048TH00-*	49	47	44
UIRL-055TH00-*	52	50	47

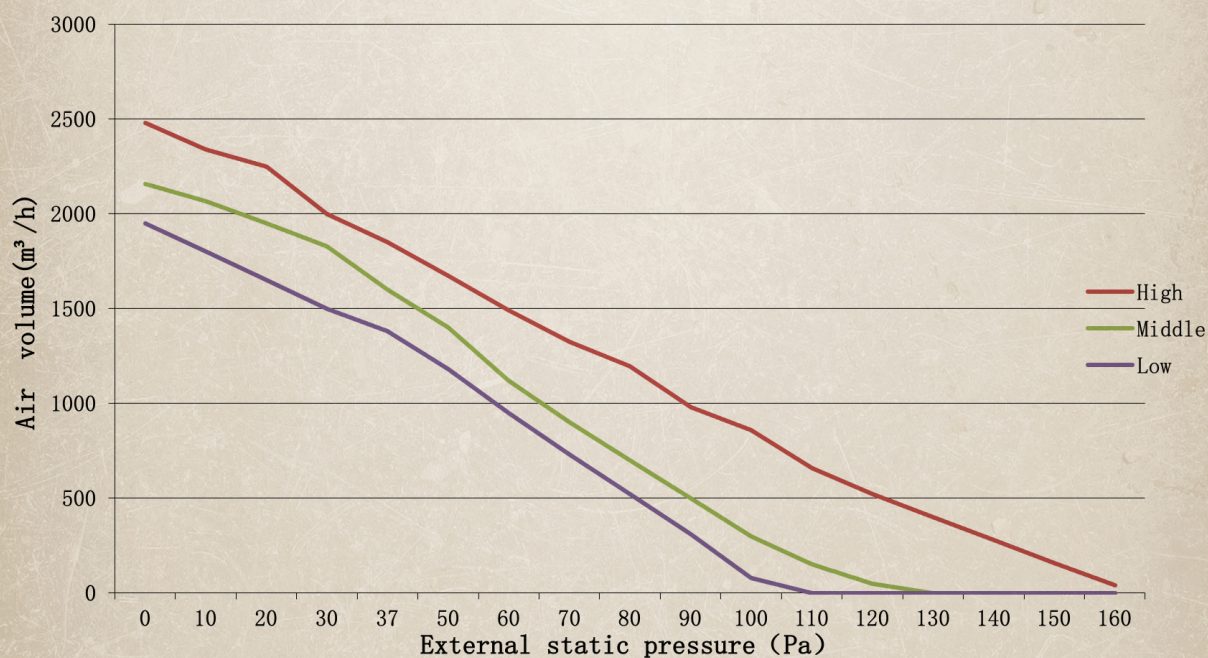
UIRL-018TH00-* STATIC PRESSURE CURVE



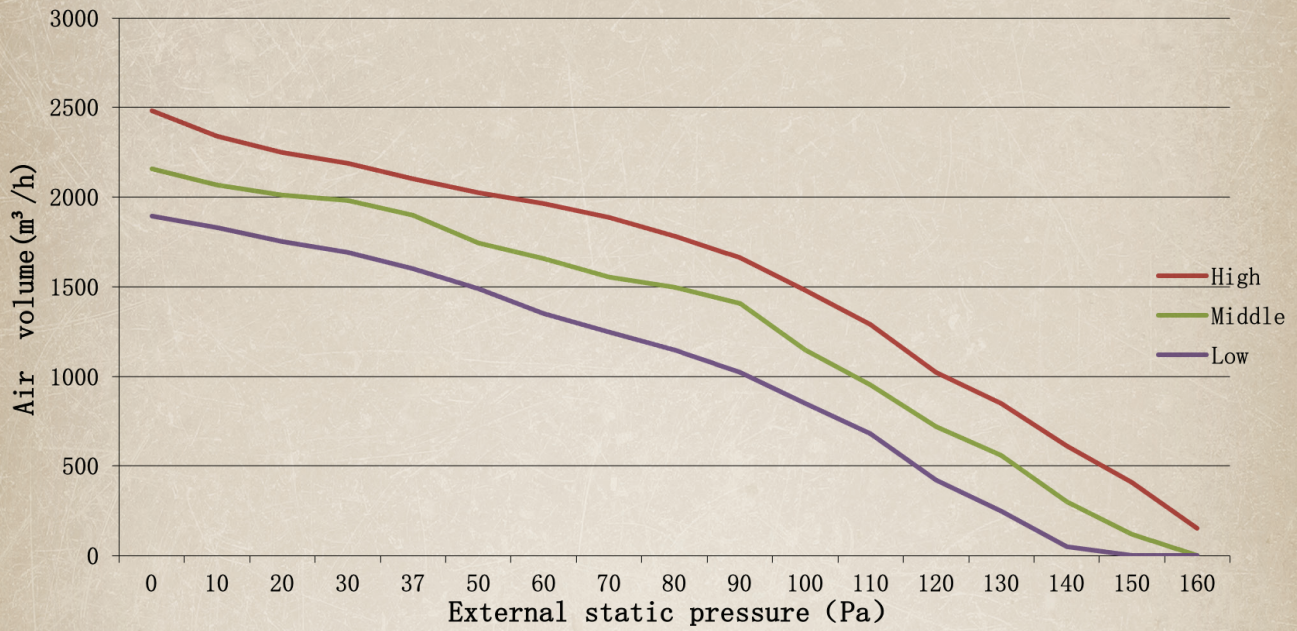
UURL-024TH00-* STATIC PRESSURE CURVE



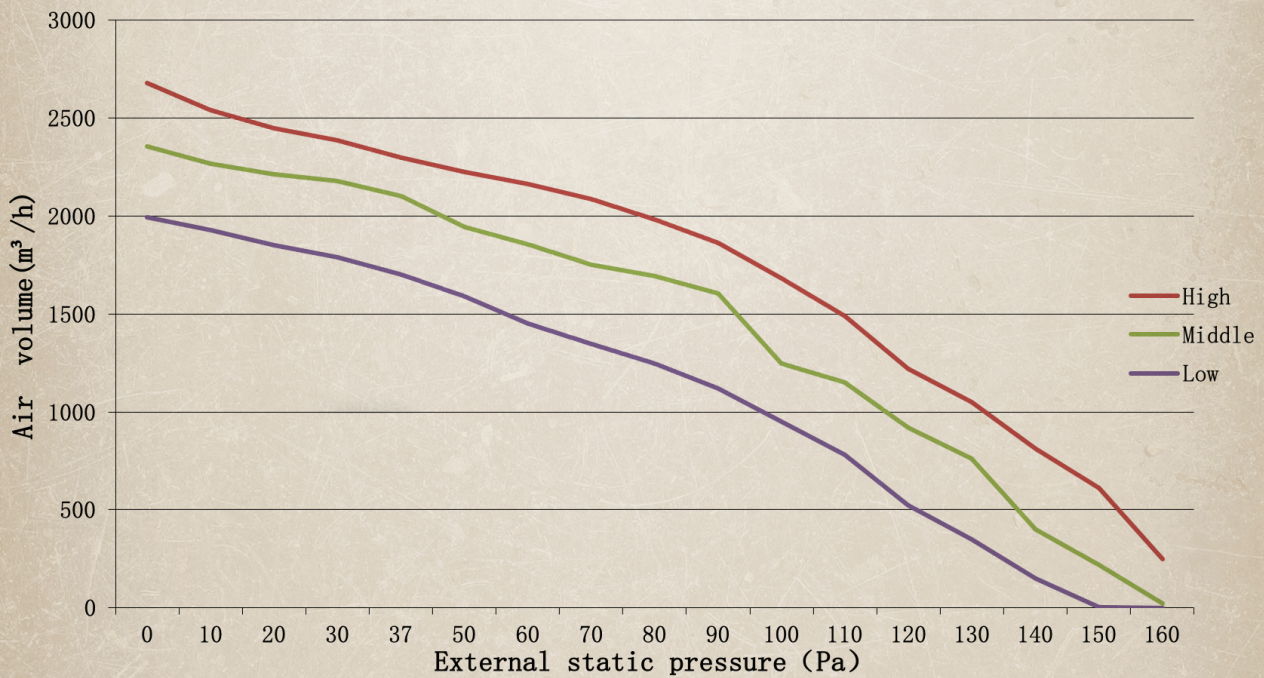
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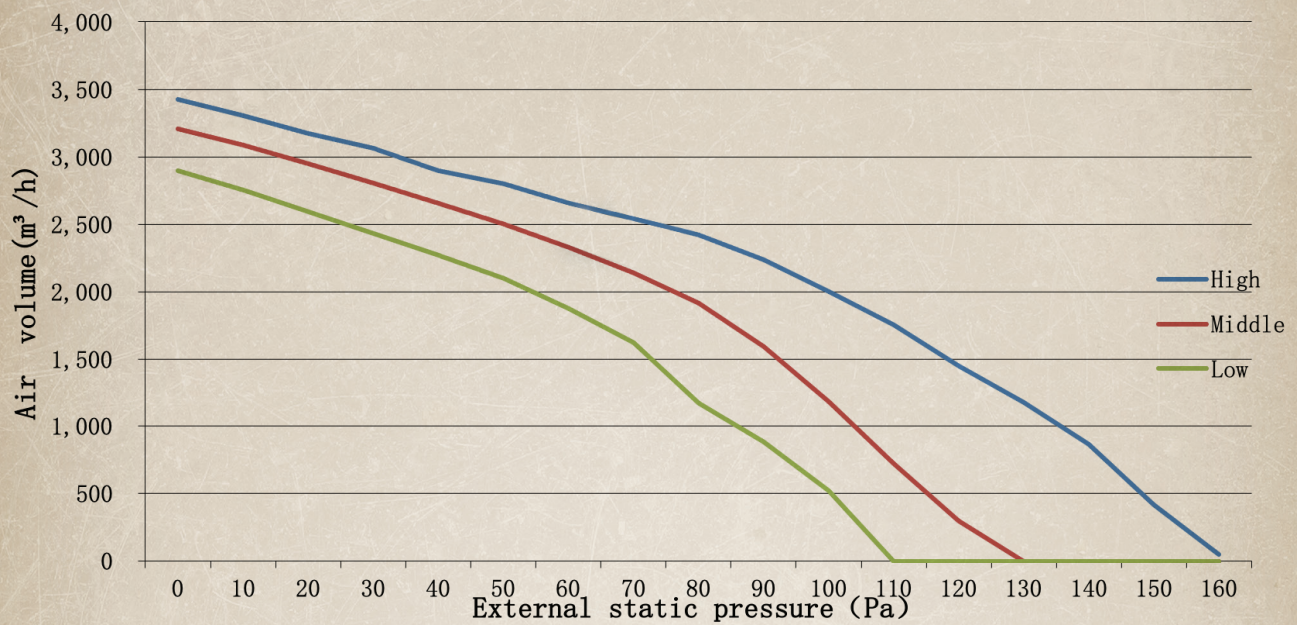
UURL-036TH00-* STATIC PRESSURE CURVE



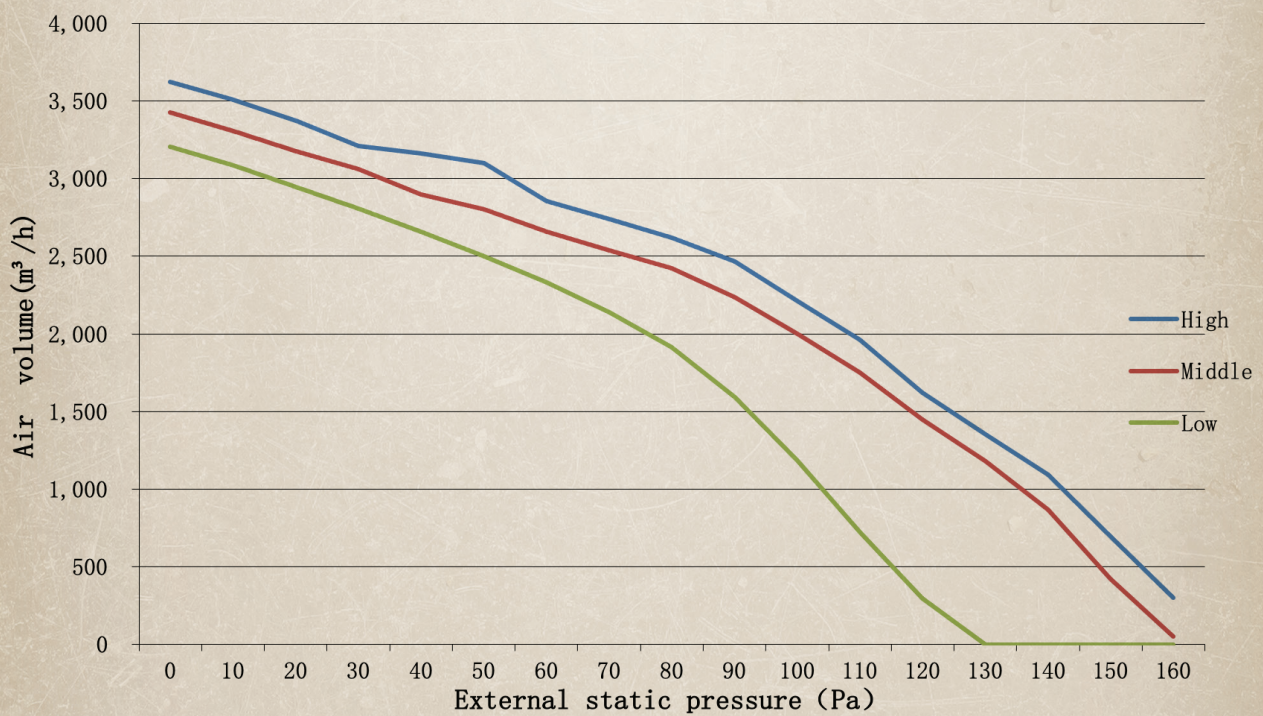
UURL-042NH00-* STATIC PRESSURE CURVE



UURL-048TH00-* STATIC PRESSURE CURVE

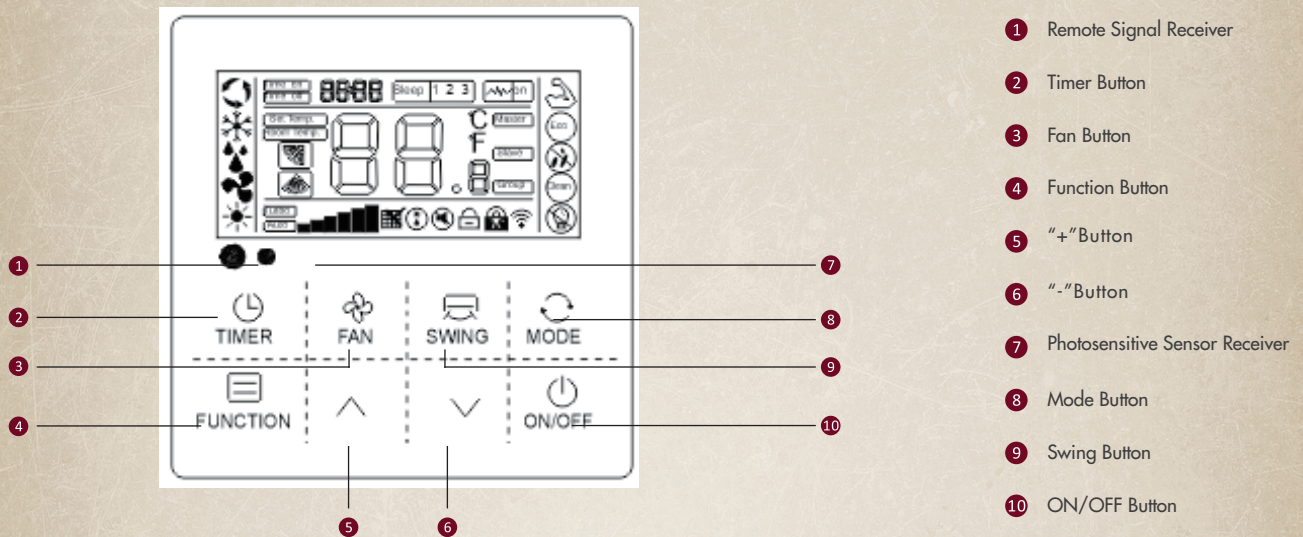


UURL-055TH00-* STATIC PRESSURE CURVE

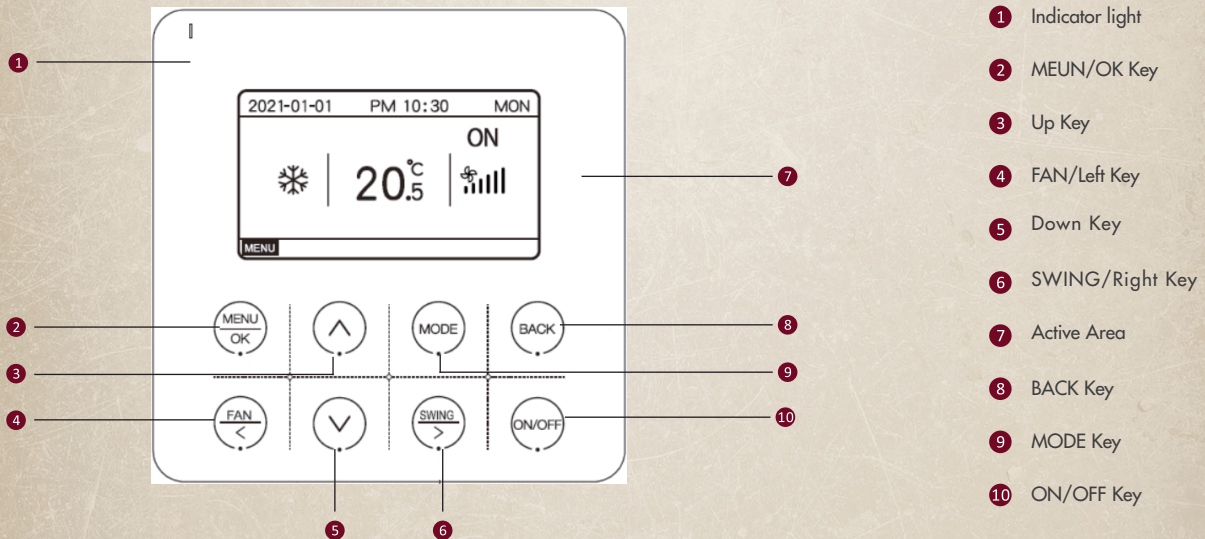


WIRED CONTROLLER

XK-05 (120x120mm)
Standard

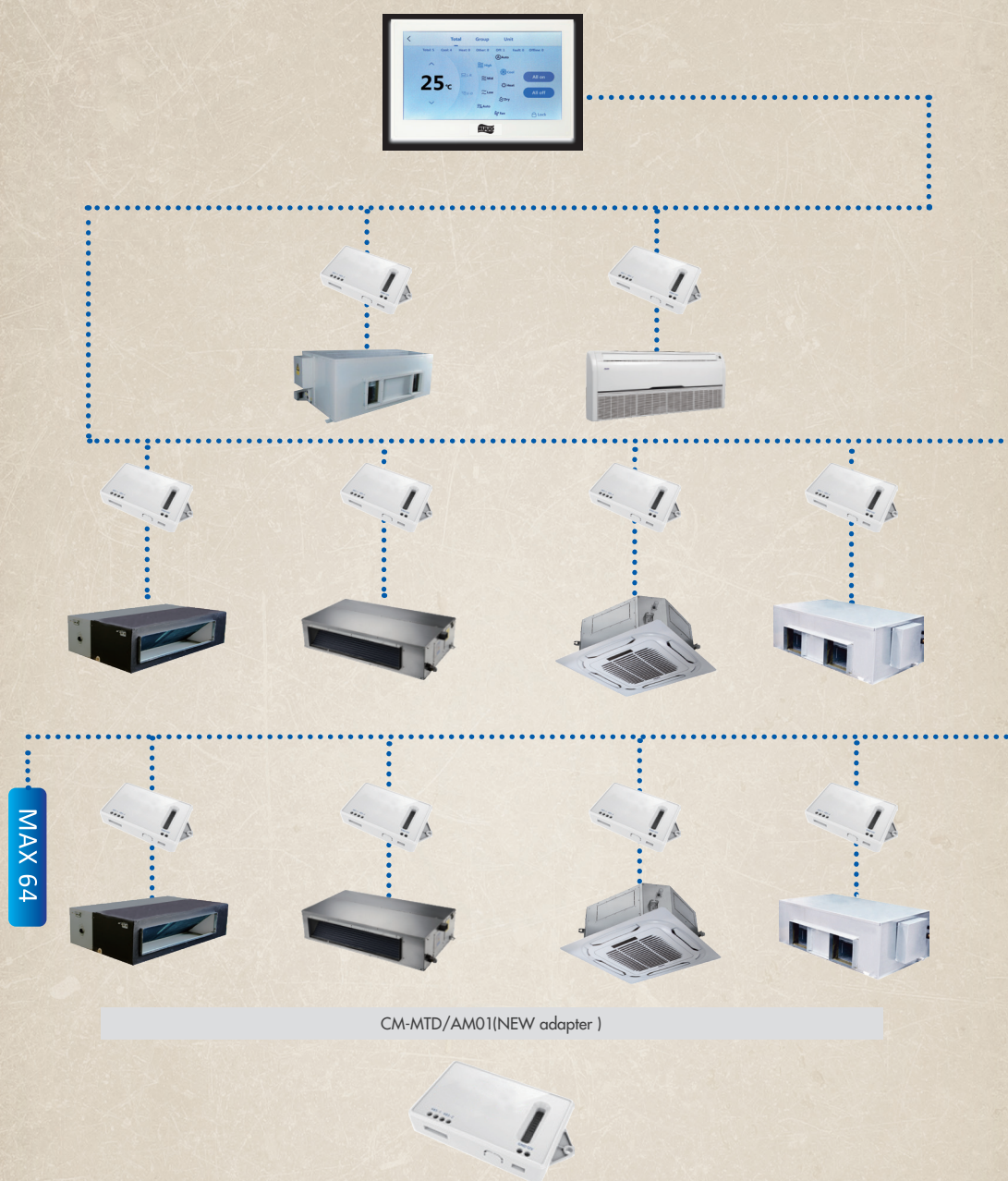


XK-06 (120x120mm)
Optional



Remark: The above wired controllers all use 485 communication protocol.

CENTRAL CONTROL OF LIGHT COMMERCIAL



1. CC02 can be used to centrally control up to 64 indoor units.
2. Weekly schedule: CC02 can include up to 64 indoor units in the weekly schedule, users can select the desired running mode and room temperature. The operation object can be a single indoor unit, a zone or all the indoor units.
3. CC02 can display the error codes and running status of indoor unit, so users can easily identify faults via checking the error codes table in user's manual.

SMART CONTROL - WIFI MODULE AND RUUD AC COMFORT APP

SMART CONTROL WIFI MODULE CONNECTION DIAGRAM



WiFi module (for LCAC)



Dimension	70×46×15.6mm
Powersupply	DC 12V
Introduction	Control only 1 IDU

▼ Remark

1. Wireless Router (field supplied) is necessary to be connected to achieve remote control
2. APP can be search and download from APP store or Google store
3. Remote control indoor units mode, fan speed , set temperature , swing, timing ...

UVRL-UIRL SERIES



RELY ON RUUD.™



More than 100 years ago, Edwin Ruud, a Norwegian mechanical engineer, came to America and developed the first successful automatic water heater. That early success marked the beginning of a tradition of innovation and value that led to the introduction of RUUD® air conditioning and water heating equipment in the 1950s. Since then, the RUUD® has grown into one of North America's largest manufacturers of quality air conditioning and water heating products for residential and light commercial use. Today, RUUD® operates manufacturing facilities employing highly trained workers and state-of-the-art equipment. Over the years, the product lines have expanded, changed, and improved significantly as new design techniques and better manufacturing technologies have become available. What remains unchanged throughout our history, however, is our commitment to producing the most reliable, long-lasting, efficient equipment you can buy.

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