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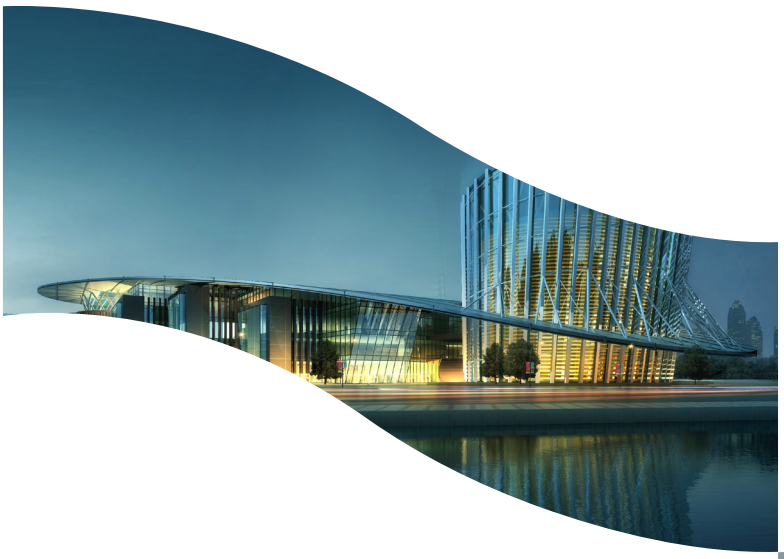
Building Trust since 1968

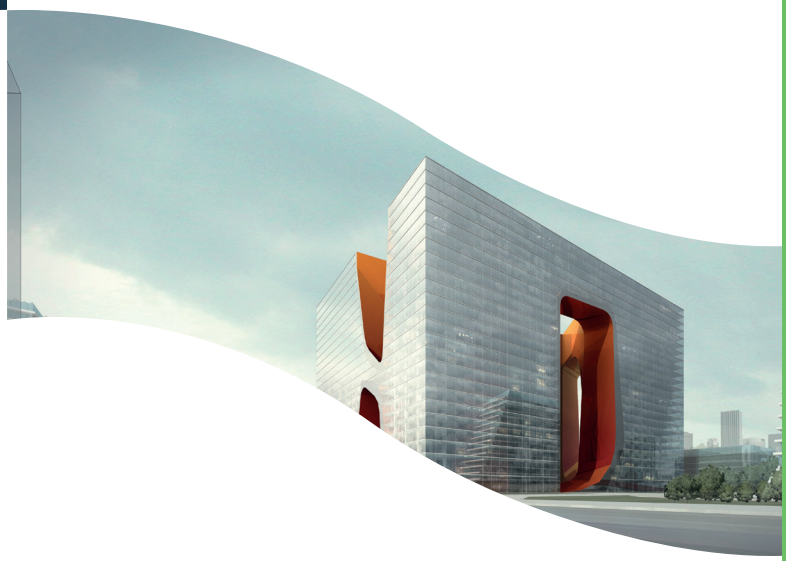
ROOFTOP PACKAGED Air Conditioners

Tropical Range for **T3** Air Climates

URTT series

Technichal Catalogue





cold hot

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01 DESCRIPTION

1.1 NOMENCLATURE

URTT Series

Tropical Range Rooftop Packaged Unit for T3 Air Climates

18,33 kW – 275,96 kW

- High Energy Efficient Packaged Air Conditioners
- Eco-Friendly R410a Refrigerant Gas
- Monoblock Compact Unit
- Advanced Control Options
- Optimal Energy Efficiency, Air Quality and Comfort
- Wide and Versatile Range
- Energy Saving Solutions for All Commercial Buildings

Each kW is under control!

plug & play



ISO 9001

ISO 14001

CE PED 2014/68/EU R410A

The nomenclature of URTT units is as follows:

Unit Code	Version	Cooling Mode	Pressure Level	Model No
URTT	BSC ADV	**SS:** Cooling Only	**YB:** High Pressure **OB:** Medium Pressure **DB:** Low Pressure	018-276

02 INTRODUCTION

At Untes, we are dedicated to provide our customers with the highest quality products and the most innovative solutions. The ergonomic and compact design of Untes URTT packaged rooftop units makes them the perfect solution for the air conditioning of commercial spaces such as cinemas, shopping malls, storages and offices. URTT range packaged air conditioners are completely factory assembled, internally wired and charged with ecological R-410a refrigerant. The functional tests and tightness tests are conducted before delivery. The units are plug and play type and ready for installation. They are designed for ducted systems which will enable them to be installed on roof tops or on the ground.

03 GENERAL FEATURES

The unit casing and the access doors are made of high quality galvanized steel with polyester powder coating. The unit standard color code is **RAL 7035.**

A silent and efficient operation is guaranteed by the use of scroll compressors and eco-friendly refrigerant **R410A**. The global warming potential of this refrigerant is **gwP:2088**. All the models comprise oil crankcase with crankcase heater and anti-vibration mountings as standard.

URTT 018-023-032 contain one compressor each. **054-064-072-080-094-108-122-138-154-155-176-179-204** models contain two compressors with two step capacity control. **244-276 204** models contain four compressors with four step capacity control.

Evaporator and condenser coils are high quality copper tube/aluminum fin coils. If required a hydrophilic/ epoxy/heresite coating can be applied to these coils.

The outer part of the condenser coil fins can be easily distorted by external factors and can form in this case a cutting edge and thus become harmful hence protection grille option for the condenser.

G4 filters are available as standard inside URTT units. This filter is placed at the air inlet side of the unit as a protection for the inner components of the units.

The system is designed to generate a constant pressure and air flow, and in order to do this, it is necessary to adjust the rotational speed of the supply fans according to the system requirements. Normally standard pulleys are available. Optionally, the variable speed setting can also be made with the variable pitch pulleys.

04 COMPONENT FEATURES

4.1. COMPRESSOR

In order to satisfy the required performance and comfort, URTT range rooftop packaged units are equipped with high efficiency and silent hermetic scroll compressors. The compressors and their auxiliary equipment are sound-proofed and thermally insulated. The connections of the equipment to the device are made with specially designed parts and the vibration is reduced to a minimum to maintain a stable operation of the compressors.



The compressors are hermetic scroll.
Scroll compressors have the following characteristics :

- High efficiency.
- Quiet operation, low sound levels.
- Fewer moving parts.
- Compact and light design.
- Crank case heater as standard feature to prevent liquid migration.
- Internal Thermal Protection.
- Two refrigerant circuits on larger units provide efficient part load.
- Anti-vibration kits for silent operation.

>> Compressor

4.2. CONDENSER

Condenser coils are manufactured inner grooved copper tubes with corrugated aluminum fins to ensure optimum heat transfer. Each coil is manufactured with 5/16" (8.0mm) O.D and 0.3 mm thickness to handle the high pressure of R410A. Condenser coils are tested against leakage by air pressure at 45 bar (650 Psig).Dust storms and the general level of available maintenance in countries with tropical climate requires that the condenser coil design shall provide long life and maintenance-free operation with the least possible operational blockage in the condenser. Large condenser surface and sensible air flow across the condenser ensures a low temperature differential between condensing temperature and the high ambient making the URTT packaged unit perform efficiently and durably. All the condensers are designed for the unit operation up to 52°C ambient temperature. Epoxy, heresite or hydrophilic coil coatings are available as an option against corrosive air conditions.

4.3. REFRIGERANT CIRCUIT

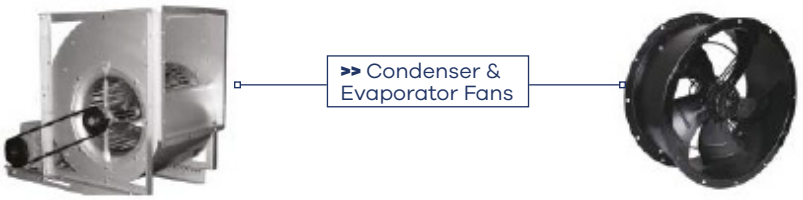
R-410A eco-friendly refrigerant is used for the cooling process and provide an operation in "only cooling" mode. The asymmetric cooling design of the units ensures a three-step capacity control (for units with more then one compressor). The evaporator and the condenser are direct expansion type coils and made of copper tubes and aluminum fins. URTT series contains, as standard, correctly sized and piped refrigerant lines including sight glass, filter drier, thermostatic expansion valve, low and high pressure switches (before/after the compressors) and a full operating charge of R-410a in each circuit. Solenoid valves, shut-off valves and check valves are available as option.



4.4. CONDENSER & EVAPORATOR FANS

Condenser fans are high efficiency fans with low sound levels. The condenser fan section has a special built-in design These fans, which are located on the outside of the unit, have a single purpose which is allowing the air to flow through the condenser and cool down the refrigerant in the coil. Since these fans are placed in direct contact with the outside air, they might be exposed to harsh conditions, and thus a regular control needs to be conducted to check if they have been covered by any object. The materials that disrupt the air flow may prevent the fan from performing its duty which leads the system operation to deteriorate. Direct driven condenser fans made of Sickle-shaped Aluminum blades with serrated trailing edge powered by thermally protected TEAO motors with minimum IP54 protection.
The motors are selected for high ambient operation.

Belt driven high efficient and silent centrifugal fans are used for evaporator fan. These fans are forward curved centrifugal double inlet, double width, statically and dynamically balanced. Bearings used in the fans are self-aligning and lubricated for life. Fans are connected to the structure with flexible connection to minimize the vibration. The motors are factory wired to the control panel where the motor starters are located to control the operation of the motors. The motors conform to relevant IEC standards. IE2 electrical motors, totally Enclosed Fan Cooled (TEFC), IP-55 protected with Class F insulation. Supply air fans are equipped with fixed pulleys and variable pitch pulleys can be added as option to ensure variable rotational speed.



4.5. EVAPORATOR

Evaporator coils are made of copper tubes and aluminum fins to ensure optimum heat transfer. Each coils are manufactured with 5/16" (7.93 mm) O.D and 0.35 mm thickness. Evaporator coils are tested against leakage by air pressure at 35 bar (508 Psig). The DX evaporator coils are complete with seamless copper headers. Supply headers incorporate a correctly sized distributor.

Evaporator coil are supplied with suitable size thermostatic expansion valve(s) and multi-circuited distributors providing capacity modulation to match the compressors. Corrugated fins and inner grooved tubes design uses the evaporator surface effectively by creating uniform air turbulence and optimum heat transfer over the entire finned surface. Epoxy, heresite or hydrophilic coil coatings are available as an option against corrosive air conditions.



4.6. CASING / STRUCTURE

Designed for easy handling and low cost, for installation and shipment. Each Packaged Unit is factory assembled and mounted on a rigid base. URTT units are made of load bearing structures and high quality galvanized steel with minimum 80 microns electrostatic powder coated sheets. The entire casing panels are designed to be leak proof and resistant against severe atmospheric conditions and sunlight. Drain pans are made of coated and sloped galvanized steel or optionally of stainless steel. Plastic alloy materials are used to protect the accessories and the devices mounted on the units against rain water and sunlight. The units are designed and installed with several access doors to provide easy maintenance. The evaporator section is insulated from all sides with EPDM insulation. The insulation material meets the fire requirements of BS476 (United Kingdom Fire Regulations) and is secured with mechanical fasteners in addition to water resistant adhesive.

4.7. CONTROL PANEL

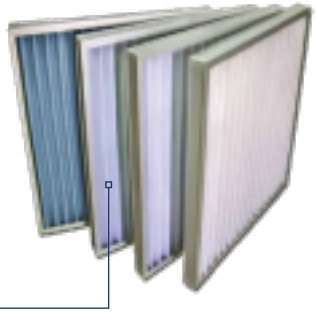
The unit mounted control panel enclosure is fabricated out of heavy gauge sheet steel in powder coated baked finish. The enclosure conforms to IP54 (standard) and IP55 (option). Unit control provides a reliable cooling control utilizing inputs from relevant sensors and other elements. Control system improves compressor life and enhances the reliability of the compressor and increase the efficiency at part loads. With the standard control board and the remote keyboard, turning on/off the unit or choosing the heating/cooling mode is possible. The optional microprocessor electronic control comprises automatic transition between heating and cooling, dehumidifying control, error detection, service intervention warning, dirty filter warning, daily and weekly programs and Modbus RTU for BMS. Additionally, the room control unit provided as an option with the microprocessor control allows the control of the unit power (on/off), heating/cooling and the temperatures set point as well as general warning display.



- Individual compressor, condenser fan motors and evaporator fan motor contactors.
- Motor protector circuit breaker for condenser and evaporator fan motors.
- Voltage monitoring module for protection against under voltage, over voltage, phase loss, phase reversal and phase unbalance of the incoming voltage.
- Unit Controller for the operational and safety control.
- Control circuit breaker.
- Control circuit on/off switch.
- Control Relays.
- Power and control terminal blocks.
- Compressor short cycling protection.
- High pressure protection.
- Low pressure protection.

4.8. FILTER

Special mounting cases are designed for the filters to be used in the units. 50 mm G4 class synthetic filters are available as standard. Metal filters and bag filters are optional for different applications. Filters are located on a slide rail to provide easy access for removal and for maintenance.



>> Filter

05 OPERATION TEMPERATURE LIMITS

Cooling	Outdoor Air Temperature		Evaporator Inlet Temperature	
	DB [°C]	WB [°C]	DB [°C]	WB [°C]
Minimum	15	-	18	14
Maximum	52	-	38	24

06 OPTIONS AND FEATURES

6.1. FILTER CLOGGING ALARM - OFKI

Clogged filters will cause decrease airflow so the room will suffer from low airflow, so this will make uncomfortable indoor air conditions. In such case the clogged will be detected by differential pressure switch and the controller will generate an alarm thru the control panel. This option is only available with ADV SS type.

6.2. OUTDOOR AND INDOOR COIL COATING

In accordance with the external ambient conditions of the units, anti-corrosion coating options are provided below for indoor and outdoor coils:

Indoor Coil Coating - Heresite- **EBKA**
(*Whole indoor coil and all copper pipes of indoor side*)
Indoor + Outdoor Coil Coating Heresite- **EKBK**
(*Whole indoor and outdoor coils and all copper pipes*)
Indoor Coil Fin Coating Hydrophilic- **ELRA**
Indoor +Outdoor Coil Fin Coating Hydrophilic- **ELXA**
Indoor +Outdoor Coil Fin Coating Hydrophilic- **EKRK**
Indoor +Outdoor Coil Fin Coating Epoxy- **EKXK**
Indoor +Outdoor Coil Frame Anticorrosive Paint- **EKCB (Standard)**

6.3. OUTDOOR COIL PROTECTION GRILL - POLYETHYLENE (PE) MESH- KBKT

The surface areas of the coils are optionally covered by a painted plastic protection grill.

6.4. STAINLESS STEEL DRAIN PAN - PZDT

Drain pan is made of stainless steel.

6.5. SUPER/HIGH/ LOW CAPACITY ELECTRICAL HEATER- EISK/EIDK/ EIYK

An electrical heater may be used in all models of URTT to heat the air and/or to control dehumidification as reheat. Please check section 6.10 for further detailed information about dehumidification control.

6.6. ELECTRONIC EXPANSION VALVE - EXPV

Electronic expansion valve option is available for the applications that require sensitive superheating control through evaporator. This option also enhance the life cycle of the compressors.

6.7. HOT GAS BYPASS - HGBS

This is an option that is to be used for controlling evaporator pressure when the thermal load is decreased in the units that are operating with higher fresh air rates. If this option is used a capacity control is also possible by the supply air temperature. This option is only available with ADV SS type.

6.8. ROOM DISPLAY UNIT - ODUN

UPC Room Control is used to enable the control the ADVSS series from the room instead return air sensors. (Room displays are standard for BSC series.)

6.9. PUMP-DOWN UYGULAMASI - PUDN

This option closes the solenoid valves before the compressor stops and prevents the liquid flow to the compressor during cycling off.

6.10. DEHUMIDIFICA-TION CONTROL FEATURE - NAKO

This option measures the relative humidity of the room via return air. If the measured value is higher than the pre-set point then dehumidification mode starts on. This option is only available with ADV SS type.

6.11. SUPPLY TEMPE-RATURE CONT-ROL - BSKO

Supply air temperature is measured and controlled by a duct type temperature sensor (supplied loose). This option is only available with ADV SS type.

6.12. SMOKE DETECTOR- DDYA

This option is used to detect any smoke caused by a possible fire. If smoke is sensed and then the sensor sends signal to the controller, controller stops the unit and generate fire alarm. In addition to this this option can also be used with the directly external fire management system if available in the building. In this case the alarm will be generated by the external fire system and the controller will again stop the unit. This option is only available with ADV SS type.

6.13. EXTERNAL FIRE ALARM - EFAL

The unit is stopped if an alarm is received from the external fire system. This option is only available with BSC SS type.

6.14. LOW PRESSURE TRANSMITTER - ALBT

This option enables the compressor suction gas pressure to be monitored from the user panel. This option is only available with ADV SS type.

6.15. HIGH PRESSURE TRANSMITTER - YKBT

This option enables the compressor gas discharge pressure to be monitored from the controller screen. This option is only available with ADV SS type.

6.16. MODBUS RTU COMMUNICATION CARD - MBUS

BMS communication is possible by adding an additional module of building automation system (BMS) (Modbus RTU). This option is only available with ADV SS type.

6.17. MAIN LOAD DISCONNECT SWITCH - AYAY

During maintenance and service periods, this switch enables the users to cut the main electricity power of the unit from the electrical panel that is placed onto the unit, thus there will not be any need to go to the main board in order to isolate the power.

6.18. IP55 ELECTRICAL PANEL - EP55

This option provides the unit an IP55 type electrical protection that is enduring against the outdoor conditions.

6.19. SAFETY RELIEF VALVE - EMVT

A high pressure switch is available in the units as an electrical safety component, and in case this safety component breaks downs this valve is used as a mechanical safety valve.

6.20. BALL TYPE SHUT-OFF VALVE (BEFORE AND AFTER FILTER DRIER) - KSSV

This option provides a free maintenance of the refrigerant piping (cleaning of the refrigerant piping from dirt, humidity and residue) without emptying the gas in the system. In order to enable the users to change the filter, shut-off valves are placed before and after the filter dryer.

6.21. FILTER

The units have G4 filters as standard, and also available to place additional following filter class;

G4 panel + F7 Bag filter (Combined Filter) G4F7
Metallic panel + F7 Bag filter (Combined Filter) MFF7
Metallic panel + M5 Bag filter (Combined Filter) MFF5
M5 Bag filter (535 mm Length) URM5
Metallic washable panel filter URMF (50 mm Thickness)

6.22. ADJUSTABLE BELT PULLEY SYSTEM-AYKS

This option not only prevents low pressure problems in the cooling circuits of the device operated at low ambient temperatures, but also contributes to energy efficiency. This option is only available in ADV SS type.

6.23. LOW AMBIENT KIT – DOSK

This option not only prevents low pressure problems in the cooling circuits of the device operated at low ambient temperatures, but also contributes to energy efficiency. This option is only available in ADV SS type.

6.24. HIGH THERMAL INSULATION CLASS – YIYS

This option minimizes heat loss by extra strengthening of the insulation in the suction line and the base sheet. The panel insulations are increased from 10 mm to 19 mm and pipe insulations are increased from 7 mm to 13 mm.



Package&Rooftop Test Laboratory

07
CAPACITY RATINGS

URTT Series		018-094									
			023	032	037	047	054	064	072	80	94
Technical Specifications											
Gross Cooling Capacity (1)	kW	18,81	23,61	32,08	37,87	47,9	55,97	64,13	73,79	82,18	95,05
Net Cooling Capacity (1)	kW	18,54	23,06	31,38	37,17	46,95	55,07	62,91	72,09	80,53	92,64
Nominal Absorbed Power (2)	kW	6,1	7,8	11,5	12,9	15,5	18,77	22,9	26,0	28,5	32,1
EER (3)	BtuW·h	10,16	9,71	9,08	9,68	9,95	9,81	9,17	9,25	9,48	9,72
IEER (4)	BtuW·h	11,1	10,1	9,6	10,4	10,6	11,1	10,3	10,4	10,4	10,4
Condenser Fan											
Circuit 1 Air Flow	m³/h	9.857	9.773	16.161	10.130	10.659	9.830	16.129	17.767	18.890	21.039
Circuit 2 Air Flow	m³/h	9.857	9.773	16.161	10.130	10.659	16.129	16.129	18.890	18.890	21.039
Type		Axial									
Quantity	pcs.	1					2				
Fan Diameter	mm	560	560	630	710	800	" 560/ 630 "	630	630/710	710	800
Power	kW	0,9	0,9	2,5	2,2	1,7	3,35	5,0	4,7	4,7	3,5
Supply Fan											
Nominal Air Flow	m³/h	2.800	3.600	4.750	5.600	7.200	8.200	9.300	10.800	12.100	14.000
Minimum Air Flow	m³/h	2.000	2.400	3.400	4.000	4.800	6.100	6.800	7.650	8.500	10.400
Maximum Air Flow	m³/h	3.800	4.400	6.000	6.800	8.800	10.100	12.000	13.400	14.900	17.000
ESP (5)	Pa	518	530	606	511	571	590	564	676	583	670
Type		Radial									
Quantity	pcs.	1									
Fan Diameter	mm	230	230	255	305	381	381	381	458	458	458
Motor Power (Low)	kW	0,55	0,75	1,1	1,1	1,5	2,2	3	3	3	4
Motor Power (Medium)	kW	0,75	1,1	1,5	1,5	2,2	3	4	4	4	5,5
Motor Power (High)	kW	1,1	1,5	2,2	2,2	3	4	5,5	5,5	5,5	7,5
Number of Poles (L/M/H)	-	4P/4P/4P									
Compressor											
Compressor Quantity	pcs.	1			2						
Capacity Control											
Steps	pcs.	1			2						
Energy											
Power Data		380-420V / 3 ph / 50 Hz / Neutral + earthing									
Refrigerant											
Type		R410a									
Quantity	kg	5	6	8	5/5	7/7	7/8	8/8	8/10	10/10	13/13
Sound Information											
Sound Power Level	dB(A)	81	81	86	86	77	87	89	89	89	79
Sound Pressure Level (6)	dB(A)	59	59	64	64	55	65	67	67	67	57
Other											
Weight	kg	374	402	459	512	648	814	836	895	966	1.095
Drain diameter	inch	¾"	¾"	¾"	1"	1"	1"	1"	1"	1"	1"

1) Capacities as per AHRI 340/360-2019 standard @ 26,67/19,4 °C coil inlet and 35°C ambient temperature.
2) Nominal Absorbed Power values are calculated at high pressure conditions according to metal filter and in accordance with AHRI 340/360-2019 standard.
3) Energy Efficiency Ratio at full load as per AHRI 340/360-2019 standard.
4) Integrated Energy Efficiency Ration as per AHRI 340/360-2019 standard.
5) Maximum ESP at nominal airflow rate for high pressure class units according to metal filter.
6) Sound pressure value is at a distance of 5 meters from the source and direction factor is Q:2.

URTT Series		108-276									
		108	122	138	154	155	176	179	204	244	276
Technical Specifications											
Gross Cooling Capacity (1)	kW	107,77	113,1	136,66	153,22	154,07	176,32	177,16	201,06	241,36	273,28
Net Cooling Capacity (1)	kW	103,63	109,76	133,03	149,29	151,18	171,22	173,2	197,32	234,99	267,2
Nominal Absorbed Power (2)	kW	39,6	46,8	50,3	54,6	50,72	64,4	59,16	65,89	82,48	90,37
EER (3)	BtuW·h	8,94	7,91	8,93	9,26	10,11	9,00	9,92	10,17	9,68	10,04
IEER (4)	BtuW·h	9,6	7,9	9,8	10,2	11,5	9,90	11,3	11,7	10,4	11
Condenser Fan											
Circuit 1 Air Flow	m³/h	21.039	34.925	34.925	37.086	41.321	37.086	41.321	45.597	62.793	59.821
Circuit 2 Air Flow	m³/h	34.925	34.925	37.086	37.086	41.321	49.148	45.597	45.597	62.793	59.821
Type		Axial									
Quantity	pcs.	3	4							6	
Fan Diameter	mm	800/630	630	630/710	710	800	710/800	800/910	910	800	800
Power	kW	6,5	9,5	9,5	9,4	6,8	11,1	6,9	6,9	10,2	10,3
Supply Fan											
Nominal Air Flow	m³/h	16.600	18.800	21.200	23.700	23.700	27.000	27.000	30.500	37.400	42.500
Minimum Air Flow	m³/h	11.800	13.300	15.000	16.800	16.800	19.600	19.800	21.950	26.000	30.500
Maximum Air Flow	m³/h	20.000	22.600	25.400	28.000	27.800	32.000	31.500	35.500	43.000	48.500
ESP (5)	Pa	447	410	705	541	863	587	847	943	824	741
Type		Radial									
Quantity	pcs.	1			2	1	2	1			
Fan Diameter	mm	450	500	500	458	630	458	630	710	710	800
Motor Power (Low)	kW	4	4	5,5	5,5	5,5	7,5	7,5	7,5	11	11
Motor Power (Medium)	kW	5,5	5,5	7,5	7,5	7,5	11	11	11	15	15
Motor Power (High)	kW	7,5	7,5	11	11	11	15	15	15	18,5	18,5
Number of Poles (L/M/H)	-	4P/4P/4P									
Compressor											
Compressor Quantity	pcs.	2								4	
Capacity Control											
Steps	pcs.	2								4	
Energy											
Power Data		380-420V / 3 ph / 50 Hz / Neutral + earthing									
Refrigerant											
Type		R410a									
Quantity	kg	13/14	15/15	14/19	19/19	19/20	19/24	19/25	25/25	29/30	31/31
Sound Information											
Sound Power Level	dB(A)	89	92	92	92	86	96	86	86	87	88
Sound Pressure Level (6)	dB(A)	67	70	70	70	64	74	64	64	65	66
Other											
Weight	kg	1.304	1.390	1.579	1.702	1.936	2.016	2.097	2.230	2.676	3.006
Drain diameter	inch	1 ¼"									

1) Capacities as per AHRI 340/360-2019 standard @ 26,67/19,4 °C coil inlet and 35°C ambient temperature.
2) Nominal Absorbed Power values are calculated at high pressure conditions according to metal filter and in accordance with AHRI 340/360-2019 standard.
3) Energy Efficiency Ratio at full load as per AHRI 340/360-2019 standard.
4) Integrated Energy Efficiency Ration as per AHRI 340/360-2019 standard.
5) Maximum ESP at nominal airflow rate for high pressure class units according to metal filter.
6) Sound pressure value is at a distance of 5 meters from the source and direction factor is Q:2.

MODEL	Indoor Coil			Outdoor Coil Inlet Temperature															
				35°C				40°C				46°C				52°C			
	Airflow Rate [m3/h]	*DB Temp. [°C]*	*WB Temp. [°C]*	*Gross Cooling Capacity [kW]*	*Net Cooling Capacity [kW]*	*Net Sens. Cooling Capacity [kW]*	*Compressor(s) Absorbed Power [kW]*	*Gross Cooling Capacity [kW]*	*Net Cooling Capacity [kW]*	*Net Sens. Cooling Capacity [kW]*	*Compressor(s) Absorbed Power [kW]*	*Gross Cooling Capacity [kW]*	*Net Cooling Capacity [kW]*	*Net Sens. Cooling Capacity [kW]*	*Compressor(s) Absorbed Power [kW]*	*Gross Cooling Capacity [kW]*	*Net Cooling Capacity [kW]*	*Net Sens. Cooling Capacity [kW]*	*Compressor(s) Absorbed Power [kW]*
URTT 018	2000	24	17,1	16,36	16,25	11,22	4,66	15,69	15,59	10,90	5,14	14,75	14,64	10,43	5,79	13,70	13,60	9,92	6,49
		27	19,0	17,37	17,27	11,87	4,69	16,68	16,58	11,55	5,19	15,74	15,64	11,09	5,83	14,66	14,56	10,57	6,54
		30	21,1	18,46	18,36	12,32	4,73	17,72	17,61	12,01	5,23	16,76	16,66	11,59	5,88	15,59	15,49	11,08	6,59
		34	23,2	19,75	19,65	13,35	4,77	18,96	18,86	13,05	5,27	17,94	17,84	12,63	5,93	16,79	16,69	12,18	6,64
	2800	24	17,1	17,58	17,31	12,78	4,70	16,82	16,55	12,42	5,19	15,79	15,52	11,93	5,83	14,56	14,29	11,36	6,53
		27	19,0	18,65	18,38	13,56	4,74	17,68	17,41	13,13	5,23	16,64	16,37	12,70	5,87	15,49	15,22	12,24	6,58
		30	21,1	19,76	19,49	14,26	4,77	18,91	18,65	13,93	5,27	17,83	17,57	13,48	5,93	16,61	16,35	12,98	6,63
		34	23,2	21,09	20,83	15,63	4,82	20,10	19,83	15,26	5,32	18,96	18,70	14,85	5,97	17,69	17,42	14,35	6,67
	3800	24	17,1	18,38	17,77	14,28	4,73	17,55	16,95	13,93	5,22	16,48	15,88	13,45	5,87	15,66	15,06	13,09	6,33
		27	19,0	19,43	18,83	15,37	4,76	18,57	17,97	15,03	5,26	17,47	16,87	14,58	5,91	16,67	16,07	14,26	6,37
		30	21,1	20,72	20,12	16,29	4,80	19,78	19,17	15,94	5,30	18,49	17,89	15,43	5,95	17,65	17,05	15,12	6,42
		34	23,2	22,04	21,43	18,02	4,85	21,01	20,41	17,59	5,35	19,81	19,21	17,10	6,00	18,98	18,38	16,74	6,47
URTT 023	2400	24	17,1	20,38	20,20	13,81	5,85	19,47	19,29	13,37	6,47	18,28	18,10	12,77	7,31	17,02	16,84	12,16	8,27
		27	19,0	21,66	21,48	14,60	5,92	20,72	20,54	14,18	6,54	19,49	19,31	13,58	7,39	18,15	17,97	12,93	8,35
		30	21,1	23,02	22,84	15,17	5,98	22,02	21,84	14,75	6,62	20,73	20,56	14,18	7,47	19,26	19,08	13,54	8,43
		34	23,2	24,64	24,46	16,44	6,06	23,58	23,40	16,04	6,70	22,21	22,03	15,47	7,56	20,67	20,49	14,81	8,53
	3600	24	17,1	22,24	21,68	16,07	5,94	21,16	20,60	15,57	6,57	19,70	19,14	14,88	7,40	18,73	18,18	14,46	8,03
		27	19,0	23,28	22,72	16,96	6,00	22,23	21,67	16,55	6,63	20,85	20,29	15,99	7,48	19,86	19,30	15,58	8,11
		30	21,1	25,00	24,44	18,03	6,07	23,82	23,26	17,58	6,72	22,34	21,78	16,97	7,57	21,20	20,64	16,50	8,19
		34	23,2	26,54	25,98	19,79	6,14	25,30	24,74	19,36	6,80	23,72	23,16	18,76	7,66	22,55	21,99	18,27	8,29
	4400	24	17,1	22,82	21,88	17,18	5,97	21,71	20,77	16,71	6,60	20,31	19,37	16,08	7,44	19,26	18,32	15,61	8,06
		27	19,0	24,12	23,18	18,48	6,04	22,97	22,03	18,03	6,67	21,52	20,58	17,44	7,52	20,48	19,54	17,01	8,15
		30	21,1	25,76	24,82	19,59	6,11	24,49	23,55	19,13	6,75	22,78	21,84	18,46	7,60	21,68	20,74	18,05	8,23
		34	23,2	27,36	26,42	21,73	6,18	26,02	25,08	21,18	6,83	24,41	23,47	20,52	7,70	23,31	22,37	20,03	8,34
URTT 032	3400	24	17,1	28,01	27,72	19,14	7,59	26,56	26,27	18,41	8,44	24,86	24,57	17,59	9,65	22,97	22,68	16,69	11,06
		27	19,0	29,79	29,50	20,35	7,68	28,37	28,08	19,70	8,54	26,54	26,25	18,79	9,74	24,36	24,07	17,68	11,14
		30	21,1	31,66	31,37	21,15	7,77	30,19	29,90	20,54	8,64	28,15	27,86	19,58	9,83	26,06	25,77	18,72	11,24
		34	23,2	33,92	33,63	22,96	7,88	32,34	32,05	22,35	8,76	30,32	30,02	21,51	9,96	27,85	27,56	20,45	11,33
	4750	24	17,1	30,09	29,39	21,81	7,70	28,60	27,90	21,11	8,56	26,47	25,77	20,07	9,73	24,31	23,61	19,09	11,14
		27	19,0	31,68	30,98	23,02	7,77	30,04	29,34	22,35	8,63	28,03	27,33	21,52	9,83	25,85	25,15	20,60	11,22
		30	21,1	33,88	33,19	24,41	7,88	32,21	31,51	23,75	8,75	30,07	29,37	22,85	9,94	27,56	26,86	21,79	11,32
		34	23,2	36,02	35,32	26,70	7,98	34,27	33,57	26,09	8,86	32,01	31,31	25,24	10,05	29,46	28,76	24,14	11,43
	6000	24	17,1	31,10	29,81	23,59	7,74	29,50	28,22	22,90	8,60	27,44	26,16	21,97	9,79	25,86	24,58	21,22	10,69
		27	19,0	32,91	31,62	25,37	7,83	31,25	29,96	24,71	8,70	29,12	27,83	23,82	9,89	27,58	26,29	23,17	10,79
		30	21,1	35,19	33,90	26,90	7,94	33,32	32,03	26,20	8,80	30,87	29,58	25,23	9,99	29,23	27,95	24,61	10,88
		34	23,2	37,36	36,08	29,77	8,04	35,44	34,15	28,97	8,92	33,12	31,84	28,01	10,12	31,49	30,21	27,29	11,02
URTT 037	4000	24	17,1	33,11	32,80	22,57	9,29	31,64	31,34	21,83	10,26	29,83	29,53	20,96	11,54	27,74	27,44	19,96	12,96
		27	19,0	35,16	34,86	23,88	9,36	33,73	33,43	23,23	10,35	31,84	31,54	22,31	11,64	29,70	29,40	21,28	13,05
		30	21,1	37,35	37,05	24,81	9,44	35,84	35,53	24,18	10,43	33,81	33,51	23,27	11,72	31,54	31,23	22,31	13,14
		34	23,2	39,97	39,67	26,91	9,52	38,34	38,04	26,29	10,52	36,28	35,98	25,44	11,82	33,82	33,52	24,39	13,24
	5600	24	17,1	35,55	34,84	25,67	9,37	34,01	33,31	24,96	10,36	31,86	31,16	23,94	11,63	29,45	28,75	22,84	13,04
		27	19,0	37,42	36,72	27,12	9,44	35,67	34,97	26,40	10,42	33,61	32,91	25,57	11,71	31,31	30,61	24,63	13,13
		30	21,1	39,94	39,24	28,69	9,52	38,21	37,51	28,02	10,52	36,02	35,32	27,12	11,81	33,53	32,83	26,12	13,22
		34	23,2	42,43	41,73	31,40	9,60	40,59	39,89	30,76	10,60	38,29	37,58	29,92	11,90	35,65	34,95	28,86	13,31
	6800	24	17,1	36,60	35,43	27,50	9,41	34,85	33,68	26,73	10,39	32,75	31,58	25,81	11,68	31,21	30,04	25,12	12,60
		27	19,0	38,55	37,38	29,42	9,48	36,85	35,68	28,76	10,47	34,70	33,53	27,88	11,76	33,13	31,96	27,24	12,69
		30	21,1	41,30	40,13	31,23	9,56	39,30	38,13	30,44	10,55	36,83	35,66	29,49	11,85	35,11	33,94	28,83	12,77
		34	23,2	43,78	42,61	34,54	9,63	41,75	40,58	33,71	10,63	39,33	38,16	32,70	11,94	37,66	36,49	32,01	12,87
URTT 047	4800	24	17,1	41,13	40,79	27,92	11,64	39,32	38,99	27,11	12,88	36,89	36,56	25,86	14,54	34,34	34,01	24,63	16,45
		27	19,0	43,75	43,42	29,63	11,77	41,83	41,50	28,77	13,02	39,34	39,01	27,59	14,70	36,63	36,30	26,38	16,61
		30	21,1	46,53	46,20	30,94	11,90	44,51	44,18	30,11	13,16	41,92	41,59	28,95	14,86	38,93	38,59	27,60	16,77
		34	23,2	49,87	49,53	33,50	12,05	47,68	47,35	32,68	13,33	44,91	44,58	31,54	15,04	41,84	41,51	30,25	16,97
	7200	24	17,1	45,01	44,07	33,04	11,83	42,90	41,95	32,06	13,07	39,87	38,93	30,57	14,73	36,92	35,98	29,25	16,63
		27	19,0	47,24	46,30	34,81	11,93	45,08	44,14	33,97	13,20	42,26	41,32	32,81	14,88	39,22	38,28	31,54	16,79
		30	21,1	50,68	49,73	36,99	12,08	48,29	47,34	36,05	13,36	45,26	44,32	34,80	15,06	41,71	40,77	33,28	16,95
		34	23,2	53,89	52,94	40,51	12,21	51,36	50,42	39,62	13,51	48,15	47,20	38,34	15,23	44,59	43,65	36,84	17,15
	8800	24	17,1	46,25	44,61	35,36	11,88	44,03	42,39	34,40	13,14	41,16	39,52	33,11	14,81	39,06	37,42	32,13	16,05
		27	19,0	48,98	47,34	38,00	12,01	46,64	45,00	37,07	13,28	43,67	42,03	35,84	14,97	41,52	39,88	34,94	16,21
		30	21,1	52,40	50,76	40,31	12,15	49,67	48,04	39,23	13,43	46,26	44,62	37,88	15,12	43,99	42,35	37,03	16,37
		34	23,2	55,58	53,94	44,47	12,28	52,83	51,20	43,33	13,58	49,58	47,94	41,99	15,31	47,24	45,60	41,01	16,58
URTT 054	6100	24	17,1	49,26	48,83	33,90	13,47	46,85	46,42	32,74	14,95	43,89	43,45	31,30	16,99	40,64	40,21	29,79	19,37
		27	19,0	52,42	51,99	36,10	13,64	49,96	49,53	34,96	15,13	46,81	46,38	33,41	17,17	42,89	42,46	31,40	19,50
		30	21,1	55,72	55,29	37,56	13,80	53,19	52,76	36,51	15,31	49,67	49,24	34,90	17,34	46,04	45,61	33,39	19,70
		34	23,2	59,67	59,24	40,80	13,98	56,92	56,49	39,73	15,51	53,42	52,99	38,28	17,57	49,17	48,74	36,50	19,90
	8200	24	17,1	52,50	51,60	38,27	13,64	49,95	49,05	37,09	15,13	46,35	45,45	35,32	17,14	42,69	41,78	33,66	19,49
		27	19,0	55,26	54,36	40,35	13,78	52,49	51,59	39,24	15,27	49,07	48,17	37,83	17,31	45,36	44,46	36,29	19,66
		30	21,1	59,12	58,22	42,77	13,96	56,25	55,35	41,65	15,47	52,59	51,69	40,13	17,52	48,34	47,44	38,31	19,84
		34	23,2	62,85	61,95	46,76	14,13	59,84	58,94	45,71	15,66	55,97	55,07	44,27	17,72	51,57	50,67	31,74	20,05
	10100	24	17,1	54,13	52,56	41,25	13,72	51,36	49,79	40,04	15,20	47,86	46,29	38,47	17,23	45,32	43,75	37,29	18,76
		27	19,0	57,23	55,66	44,23	13,87	54,40	52,83	43,12	15,37	50,80	49,23	41,62	17,41	48,19	46,62	40,52	18,94
		30	21,1	61,29	59,72	46,92	14,06	58,03	56,46	45,64	15,56	53,83	52,26	43,96	17,59	51,07	49,50	42,93	19,12
		34	23,2	65,01	63,44	51,61	14,22	61,68	60,11	50,42	15,75	57,70	56,13	48,76	17,82	54,88	53,31	47,58	19,36
URTT 064	6800	24	17,1	56,17	55,62	38,36	15,20	53,27	52,73	36,90	16,91	49,85	49,30	35,26	19,31	46,03	45,49	33,45	22,15
		27	19,0	59,73	59,18	40,73	15,38	56,87	56,32	39,41	17,10	53,20	52,65	37,60	19,50	48,77	48,22	35,35	22,29
		30	21,1	63,48	62,93	42,34	15,57	60,52	59,97	41,11	17,30	56,41	55,86	39,19	19,69	52,22	51,67	37,47	22,50
		34	23,2	68,00	67,45	45,96	15,79	64,82	64,27	44,73	17,54	60,76	60,21	43,04	19,94	55,79	55,24	40,92	22,70
	9300	24	17,1	60,08	58,86	43,37	15,40	57,10	55,88	41,98	17,12	52,91	51,69	39,93	19,48	48,54	47,32	37,94	22,28
		27	19,0	63,38	62,16	45,80	15,56	60,00	58,78	44,39	17,28	55,99	54,77	42,75	19,66	51,62	50,40	40,92	22,46
		30	21,1	67,67	66,45	48,48	15,77	64,32	63,11	47,16	17,51	60,04	58,82	45,38	19,90	55,07	53,85	43,26	22,66
		34	23,2	71,98	70,76	53,00	15,98	68,44	67,22	51,76	17,73	63,92	62,70	50,08	20,13	58,80	57,58	47,93	22,89
	12000	24	17,1	62,33	59,89	47,30	15,51	59,15	56,72	45,95	17,23	55,02	52,59	44,09	19,61	51,84	49,41	42,53	21,40
		27	19,0	66,00	63,57	50,91	15,69	62,66	60,23	49,60	17,42	58,38	55,95	47,81	19,80	55,26	52,83	46,50	21,61
		30	21,1	70,52	68,08	53,93	15,91	66,73	64,30	52,53	17,64	61,87	59,44	50,62	20,01	58,58	56,15	49,39	21,80
		34	23,2	74,87	72,44	59,73	16,11	71,02	68,59	58,13	17,87	66,38	63,95	56,21	20,27	63,10	60,67	54,77	22,08

*** Bold values are at 50 °C outdoor conditions.**

MODEL	Indoor Coil			Outdoor Coil Inlet Temperature																
				35°C				40°C				46°C				52°C				
	Airflow Rate [m3/h]	*DB Temp. [°C]*	*WB Temp. [°C]*	*Gross Cooling Capacity [kW]*	*Net Cooling Capacity [kW]*	*Net Sens. Cooling Capacity [kW]*	*Compressor(s) Absorbed Power [kW]*	*Gross Cooling Capacity [kW]*	*Net Cooling Capacity [kW]*	*Net Sens. Cooling Capacity [kW]*	*Compressor(s) Absorbed Power [kW]*	*Gross Cooling Capacity [kW]*	*Net Cooling Capacity [kW]*	*Net Sens. Cooling Capacity [kW]*	*Compressor(s) Absorbed Power [kW]*	*Gross Cooling Capacity [kW]*	*Net Cooling Capacity [kW]*	*Net Sens. Cooling Capacity [kW]*	*Compressor(s) Absorbed Power [kW]*
URTT 072	7650	24	17,1	64,19	63,50	43,63	17,75	61,14	60,45	42,14	19,71	57,28	56,59	40,21	22,37	53,14	52,45	38,23	25,41
		27	19,0	68,22	67,53	46,30	17,96	65,11	64,42	44,89	19,94	61,07	60,38	42,93	22,61	56,46	55,77	40,62	25,63
		30	21,1	72,51	71,81	48,12	18,17	69,24	68,54	46,77	20,17	64,90	64,21	44,80	22,85	60,17	59,48	42,76	25,87
		34	23,2	77,63	76,94	52,19	18,40	74,13	73,43	50,84	20,43	69,64	68,95	48,98	23,14	64,46	63,77	46,79	26,16
	10800	24	17,1	69,18	67,48	49,85	18,00	65,82	64,12	48,28	19,98	61,22	59,52	46,04	22,62	56,40	54,70	43,83	25,62
		27	19,0	72,93	71,23	52,62	18,18	69,14	67,44	51,04	20,17	64,68	62,98	49,24	22,84	59,87	58,17	47,23	25,85
		30	21,1	77,83	76,13	55,72	18,41	74,08	72,38	54,25	20,43	69,30	67,61	52,26	23,12	63,90	62,20	49,99	26,12
		34	23,2	82,80	81,10	60,98	18,62	78,77	77,07	59,55	20,67	73,72	72,02	57,60	23,38	68,09	66,40	55,32	26,40
	13400	24	17,1	71,46	68,40	53,46	18,11	67,77	64,71	51,85	20,09	63,21	60,14	49,81	22,74	59,87	56,81	48,26	24,70
		27	19,0	75,44	72,38	57,35	18,30	71,73	68,67	55,89	20,31	67,01	63,95	53,93	22,98	63,63	60,57	52,52	24,95
		30	21,1	80,70	77,64	60,85	18,53	76,50	73,44	59,23	20,55	71,04	67,98	57,05	23,22	67,40	64,34	55,68	25,19
		34	23,2	85,67	82,61	67,24	18,73	81,27	78,21	65,52	20,78	76,05	72,99	63,33	23,51	72,40	69,34	61,78	25,50
URTT 080	8500	24	17,1	71,94	71,25	49,25	19,94	68,75	68,07	47,68	22,01	64,88	64,20	45,83	24,83	60,60	59,92	43,80	28,02
		27	19,0	76,41	75,73	52,23	20,28	73,20	72,52	50,75	22,36	69,06	68,38	48,73	25,19	64,14	63,46	46,22	28,34
		30	21,1	81,13	80,45	54,30	20,65	77,78	77,10	52,92	22,76	73,10	72,42	50,75	25,56	68,32	67,64	48,81	28,77
		34	23,2	86,76	86,08	58,94	21,13	83,14	82,46	57,54	23,23	78,52	77,83	55,66	26,09	72,74	72,06	53,22	29,23
	12100	24	17,1	77,35	75,71	56,48	20,35	73,84	72,19	54,88	22,42	68,93	67,29	52,56	25,18	64,13	62,49	50,45	28,35
		27	19,0	81,11	79,46	59,68	20,65	77,55	75,91	58,31	22,73	72,98	71,34	56,43	25,55	67,98	66,34	54,37	28,73
		30	21,1	86,81	85,17	63,30	21,14	82,97	81,33	61,80	23,22	78,08	76,43	59,81	26,05	72,09	70,45	57,33	29,17
		34	23,2	92,15	90,51	69,45	21,61	88,08	86,44	68,02	23,71	82,78	81,14	65,86	26,54	77,01	75,37	63,57	29,71
	14900	24	17,1	79,40	76,50	60,66	20,52	75,79	72,88	59,12	22,59	71,14	68,24	57,07	25,39	67,57	64,67	55,40	27,43
		27	19,0	83,93	81,02	65,24	20,89	80,17	77,27	63,77	22,97	75,34	72,43	61,78	25,78	71,79	68,88	60,32	27,84
		30	21,1	89,47	86,57	69,08	21,37	85,06	82,16	67,42	23,43	79,64	76,74	65,37	26,21	75,91	73,00	63,98	28,28
		34	23,2	94,89	91,99	76,45	21,87	90,61	87,70	74,70	23,97	85,28	82,38	72,51	26,82	81,52	78,61	70,85	28,91
URTT 094	10400	24	17,1	84,12	83,01	57,87	23,42	80,76	79,64	56,30	25,89	76,31	75,19	54,16	29,20	71,35	70,23	51,84	32,94
		27	19,0	89,62	88,51	61,58	23,82	85,92	84,80	59,88	26,28	81,17	80,05	57,57	29,60	75,04	73,93	54,49	33,26
		30	21,1	95,07	93,96	64,08	24,25	91,13	90,01	62,39	26,71	85,85	84,73	60,10	30,00	80,31	79,20	57,85	33,73
		34	23,2	101,56	100,45	69,64	24,79	97,40	96,28	68,04	27,26	91,98	90,87	65,58	30,56	85,48	84,37	63,19	34,22
	14000	24	17,1	89,55	87,14	64,77	23,82	85,64	83,23	62,94	26,27	80,19	77,78	60,39	29,52	74,66	72,25	57,94	33,22
		27	19,0	93,78	91,37	68,31	24,15	89,84	87,43	66,80	26,60	84,71	82,30	64,71	29,90	79,07	76,66	62,40	33,62
		30	21,1	100,39	97,98	72,52	24,69	96,07	93,66	70,84	27,14	90,55	88,14	68,58	30,43	84,00	81,58	65,86	34,08
		34	23,2	106,50	104,09	79,52	25,22	101,92	99,51	77,93	27,67	96,09	93,68	75,53	30,96	89,45	87,04	72,92	34,63
	17000	24	17,1	91,71	87,63	68,79	23,99	87,68	83,60	67,09	26,43	82,47	78,39	64,78	29,71	78,68	74,60	63,10	32,13
		27	19,0	96,88	92,80	73,94	24,40	92,66	88,58	72,30	26,85	87,25	83,17	70,09	30,13	83,37	79,29	68,50	32,55
		30	21,1	103,30	99,22	78,30	24,95	98,53	94,45	76,53	27,36	92,24	88,16	74,08	30,60	88,08	84,00	72,56	33,00
		34	23,2	109,49	105,41	86,70	25,50	104,56	100,48	84,68	27,93	99,65	95,57	82,67	30,65	94,39	90,31	80,48	33,65
URTT 108	11800	24	17,1	87,67	86,3	59,94	26,02	84,03	82,66	58,23	28,72	79,32	77,95	55,97	32,37	74,12	72,75	53,54	36,51
		27	19,0	93,33	91,96	63,79	26,47	89,42	88,05	61,98	29,17	84,4	83,03	59,55	32,83	78,06	76,69	56,34	36,89
		30	21,1	99,05	97,68	66,39	26,97	94,94	93,57	64,65	29,69	89,33	87,95	62,15	33,33	83,49	82,12	59,76	37,46
		34	23,2	105,86	104,49	72,13	27,62	101,46	100,09	70,44	30,34	95,86	94,49	68,15	34,02	88,89	87,52	65,27	38,08
	16600	24	17,1	94,3	90,95	68,02	26,55	89,89	86,55	65,98	29,21	84,13	80,79	63,33	32,8	78,32	74,98	60,76	36,9
		27	19,0	98,79	95,44	71,98	26,94	94,51	91,16	70,31	29,63	89,02	85,67	68,07	33,27	82,99	79,64	65,58	37,39
		30	21,1	105,69	102,35	76,39	27,6	101,06	97,71	74,59	30,29	95,14	91,79	72,16	33,93	87,91	84,56	69,19	37,95
		34	23,2	112,14	108,79	83,96	28,26	107,25	103,9	82,25	30,96	100,76	97,42	79,7	34,58	93,94	90,6	76,82	38,69
	20000	24	17,1	96,52	91,71	72,55	26,73	92,2	87,38	70,72	29,41	86,64	81,82	68,25	33,03	82,42	77,61	66,32	35,68
		27	19,0	101,98	97,16	78,08	27,22	97,47	92,65	76,31	29,91	91,69	86,87	73,94	33,54	87,48	82,67	72,21	36,22
		30	21,1	108,63	103,81	82,68	27,88	103,45	98,63	80,75	30,53	96,92	92,1	78,25	34,12	92,44	87,63	76,6	36,79
		34	23,2	115,2	110,39	91,58	28,58	110,04	105,22	89,46	31,27	103,69	98,87	86,85	34,92	99,2	94,38	84,9	37,63
URTT 122	13300	24	17,1	98,97	97,54	67,73	30,31	94,79	93,37	65,77	33,43	89,42	88,00	63,19	37,66	83,5	82,08	60,41	42,46
		27	19,0	105,36	103,94	72,05	30,85	100,92	99,5	70,00	33,98	95,18	93,75	67,21	38,22	87,92	86,5	63,54	42,92
		30	21,1	111,85	110,42	74,99	31,47	107,18	105,76	73,03	34,61	100,75	99,33	70,16	38,83	94,1	92,68	67,43	43,65
		34	23,2	119,58	118,15	81,49	32,27	114,57	113,15	79,55	35,42	108,17	106,74	76,94	39,71	100,21	98,79	73,66	44,43
	18800	24	17,1	106,55	103,21	77,3	30,95	101,49	98,15	74,96	34,03	94,94	91,6	71,93	38,19	88,29	84,95	69,00	42,96
		27	19,0	111,64	108,3	81,8	31,43	106,75	103,4	79,89	34,54	100,46	97,12	77,31	38,78	93,58	90,24	74,47	43,56
		30	21,1	119,48	116,14	86,8	32,24	114,19	110,85	84,73	35,36	107,38	104,04	81,96	39,59	99,12	95,77	78,55	44,27
		34	23,2	126,8	123,45	95,38	33,06	121,21	117,87	93,43	36,19	113,77	110,42	90,5	40,41	105,99	102,65	87,21	45,22
	22600	24	17,1	109,01	104,2	82,51	31,17	104,06	99,26	80,43	34,27	97,71	92,9	77,6	38,47	92,88	88,08	75,38	41,55
		27	19,0	115,19	110,38	88,78	31,77	110,05	105,25	86,75	34,88	103,44	98,63	84,05	39,1	98,63	93,83	82,06	42,22
		30	21,1	122,74	117,93	93,99	32,59	116,84	112,04	91,8	35,66	109,36	104,56	88,93	39,83	104,25	99,45	87,03	42,94
		34	23,2	130,22	125,42	104,08	33,46	124,32	119,51	101,66	36,58	117,05	112,25	98,66	40,85	111,92	107,11	96,42	44,01
URTT 138	15000	24	17,1	119,70	118,21	82,13	32,88	114,19	112,69	79,47	36,51	107,28	105,78	76,14	41,52	99,62	98,12	72,60	47,29
		27	19,0	127,34	125,84	87,39	33,36	121,61	120,11	84,73	37,00	114,22	112,72	81,11	42,02	104,87	103,37	76,35	47,71
		30	21,1	135,21	133,71	90,91	33,88	129,25	127,75	88,41	37,56	120,96	119,46	84,65	42,56	112,35	110,85	81,10	48,35
		34	23,2	144,63	143,13	98,75	34,56	138,17	136,68	96,25	38,24	129,91	128,41	92,84	43,31	119,71	118,22	88,60	49,03
	21200	24	17,1	128,66	125,03	93,76	33,45	122,33	118,70	90,81	37,06	113,78	110,15	86,81	41,99	105,20	101,57	82,97	47,74
		27	19,0	134,88	131,25	99,12	33,86	128,58	124,95	96,66	37,50	120,47	116,84	93,29	42,51	111,55	107,92	89,58	48,28
		30	21,1	144,44	140,81	105,22	34,54	137,62	133,99	102,53	38,21	128,86	125,22	98,92	43,22	118,18	114,55	94,48	48,89
		34	23,2	153,37	149,74	115,52	35,23	146,15	142,52	112,98	38,91	136,60	132,96	109,42	43,92	126,50	122,87	104,86	49,70
	25400	24	17,1	131,52	126,26	99,89	33,64	125,18	119,92	97,17	37,26	116,96	111,70	93,47	42,24	110,77	105,51	90,62	45,95
		27	19,0	139,05	133,79	107,39	34,15	132,42	127,16	104,78	37,79	123,90	118,64	101,23	42,79	117,69	112,43	98,64	46,54
		30	21,1	148,39	143,13	113,70	34,84	140,83	135,56	110,89	38,45	131,09	125,83	107,08	43,41	124,46	119,20	104,61	47,16
		34	23,2	157,44	152,18	125,84	35,56	149,72	144,46	122,64	39,21	140,35	135,09	118,76	44,27	133,69	128,43	115,87	48,07
URTT 154	16800	24	17,1	134,16	132,25	91,63	36,92	127,73	125,83	88,59	41,21	119,60	117,70	84,66	47,19	110,57	108,66	80,27	54,15
		27	19,0	142,79	140,88	97,39	37,36	136,05	134,14	94,27	41,68	127,35	125,44	90,00	47,67	116,40	114,49	84,54	54,56
		30	21,1	151,63	149,72	101,35	37,83	144,59	142,68	98,39	42,18	134,90	132,99	94,04	48,16	124,72	122,81	89,83	55,16
		34	23,2	162,21	160,30	110,15	38,43	154,62	152,71	107,21	42,79	144,83	142,92	102,53	48,84	132,91	131,01	98,28	55,78
	23700	24	17,1	144,21	140,28	104,77	37,43	136,70	132,77	101,24	41,72	126,80	122,87	96,67	47,64	116,65	112,72	92,12	54,58
		27	19,0	151,20	147,27	110,78	37,81	143,78	139,85	107,88	42,13	134,25	130,32	103,91	48,12	123,73	119,80	99,54	55,08
		30	21,1	161,96	158,03	117,60	38,42	153,93	150,00	114,45	42,75	143,58	139,65	110,17	48,75	131,06	127,13	105,02	55,63
		34	23,2	171,98	168,05	129,14	39,00	163,48	159,56	126,17	43,36	152,20	148,27	122,42	49,36	140,41	136,48	116,67	56,37
	28000	24	17,1	147,14	141,26	110,71	37,59	139,69	133,81	107,52	41,89	130,05	124,17	103,19	47,85	122,79	116,91	99,84	52,33
		27	19,0	155,55	149,67	118,98	38,05	147,78	141,90	115,92	42,37	137,79	131,91	111,77	48,35	130,49	124,61	108,72	52,88
		30	21,1	166,16	160,28	126,05	38,65	157,31	151,43	122,73	42,96	145,83	139,95	118,24	48,90	138,04	132,16	115,34	53,43
		34	23,2	176,25	170,37	139,58	39,26	167,15	161,27	135,84	43,60	156,15	150,27	131,27	49,65	148,31	142,43	127,89	54,23

*** Bold values are at 50 °C outdoor conditions.**

ROOFTOP PACKAGED
Air Conditioners
Tropical Range for **T3** Air Climates
URTTSeries

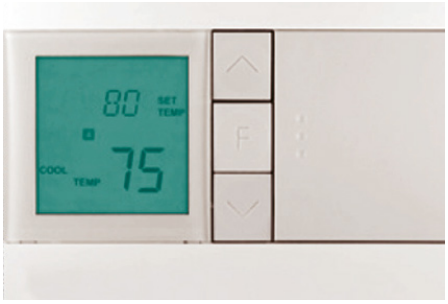
cold hot

MODEL	Indoor Coil			Outdoor Coil Inlet Temperature															
				35°C				40°C				46°C				52°C			
	Airflow Rate [m3/h]	*DB Temp. [°C]*	*WB Temp. [°C]*	*Gross Cooling Capacity [kW]*	*Net Cooling Capacity [kW]*	*Net Sens. Cooling Capacity [kW]*	*Compressor(s) Absorbed Power [kW]*	*Gross Cooling Capacity [kW]*	*Net Cooling Capacity [kW]*	*Net Sens. Cooling Capacity [kW]*	*Compressor(s) Absorbed Power [kW]*	*Gross Cooling Capacity [kW]*	*Net Cooling Capacity [kW]*	*Net Sens. Cooling Capacity [kW]*	*Compressor(s) Absorbed Power [kW]*	*Gross Cooling Capacity [kW]*	*Net Cooling Capacity [kW]*	*Net Sens. Cooling Capacity [kW]*	*Compressor(s) Absorbed Power [kW]*
URTT 155	16800	24	17,1	134,77	133,53	92,72	36,98	128,30	127,06	89,66	41,28	120,08	118,84	85,69	47,26	110,96	109,72	81,41	54,22
		27	19,0	143,43	142,19	98,67	37,42	136,62	135,38	95,52	41,74	127,85	126,61	91,21	47,74	116,91	115,67	85,74	54,63
		30	21,1	152,37	151,13	102,69	37,90	145,24	144,00	99,68	42,25	135,52	134,28	95,31	48,24	125,23	124,00	91,04	55,23
		34	23,2	163,03	161,79	111,53	38,50	155,37	154,13	108,56	42,86	145,44	144,20	104,14	48,91	133,50	132,27	99,55	55,85
	23700	24	17,1	144,94	142,05	106,56	37,50	137,30	134,41	102,98	41,78	127,39	124,50	98,37	47,72	117,16	114,27	93,77	54,65
		27	19,0	152,05	149,16	112,65	37,88	144,56	141,67	109,70	42,20	134,92	132,03	105,68	48,20	124,33	121,44	101,26	55,16
		30	21,1	162,84	159,95	119,49	38,49	154,73	151,84	116,30	42,83	144,32	141,43	111,95	48,83	131,70	128,81	106,78	55,72
		34	23,2	172,98	170,09	131,11	39,08	164,40	161,51	128,09	43,44	153,00	150,10	123,53	49,44	141,12	138,23	118,46	56,45
	27800	24	17,1	147,74	143,33	112,62	37,65	140,25	135,84	109,40	41,95	130,54	126,12	105,02	47,92	123,25	118,84	101,62	52,40
		27	19,0	156,28	151,86	120,90	38,11	148,44	144,02	117,80	42,44	138,36	133,94	113,61	48,42	130,95	126,53	110,49	52,94
		30	21,1	167,07	162,65	128,12	38,73	157,98	153,57	124,58	43,03	146,44	142,02	120,06	48,98	138,60	134,18	117,12	53,50
		34	23,2	177,15	172,73	142,33	39,33	167,93	163,52	137,71	43,67	156,84	152,42	133,11	49,73	148,83	144,41	129,69	54,29
URTT 176	19600	24	17,1	155,17	152,75	106,02	42,92	147,96	145,54	102,63	47,85	138,70	136,28	98,16	54,57	128,39	125,97	93,19	62,24
		27	19,0	165,21	162,79	112,77	43,45	157,54	155,12	109,22	48,39	147,65	145,23	104,37	55,13	135,08	132,66	98,12	62,70
		30	21,1	175,38	172,96	117,37	44,00	167,26	164,84	113,93	48,96	156,28	153,86	109,05	55,68	144,67	142,25	104,25	63,38
		34	23,2	187,53	185,11	127,58	44,68	178,88	176,46	124,23	49,65	167,50	165,08	119,46	56,42	154,08	151,66	114,07	64,05
	27000	24	17,1	166,01	160,92	119,67	43,49	157,73	152,63	115,78	48,40	146,33	141,23	110,43	55,05	134,88	129,78	105,33	62,69
		27	19,0	173,96	168,86	126,38	43,92	165,67	160,57	123,14	48,86	154,87	149,77	118,66	55,59	142,98	137,88	113,71	63,25
		30	21,1	186,36	181,27	134,23	44,62	177,30	172,20	130,67	49,56	165,65	160,55	125,87	56,29	151,50	146,40	119,99	63,87
		34	23,2	197,86	192,76	147,33	45,28	188,24	183,14	143,95	50,24	175,65	170,56	138,71	56,97	162,04	156,95	133,25	64,65
	32000	24	17,1	169,68	161,83	126,19	43,69	161,12	153,26	122,49	48,60	150,20	142,35	117,60	55,29	142,13	134,28	113,90	60,26
		27	19,0	179,15	171,30	135,50	44,21	170,37	162,52	132,04	49,14	159,05	151,20	127,34	55,86	150,83	142,98	123,92	60,85
		30	21,1	191,49	183,64	143,70	44,91	181,42	173,57	139,86	49,81	168,26	160,41	134,66	56,47	159,48	151,62	131,40	61,46
		34	23,2	202,97	195,11	158,89	45,59	192,60	184,75	154,85	50,52	180,05	172,20	149,62	57,28	171,12	163,26	145,83	62,31
URTT 179	19800	24	17,1	156,03	154,26	107,52	42,99	148,87	147,10	104,22	47,93	139,49	137,73	99,69	54,66	129,06	127,29	94,77	62,33
		27	19,0	166,23	164,46	114,59	43,53	158,47	156,70	110,99	48,48	148,47	146,70	106,09	55,22	135,93	134,16	99,91	62,80
		30	21,1	176,53	174,76	119,30	44,10	168,21	166,44	115,73	49,04	157,21	155,44	110,91	55,78	145,45	143,69	106,02	63,48
		34	23,2	188,75	186,99	129,64	44,79	180,00	178,23	126,25	49,76	168,19	166,43	121,28	56,51	154,92	153,16	116,00	64,17
	27000	24	17,1	166,72	162,75	121,59	43,56	158,46	154,49	117,76	48,48	146,89	142,93	112,26	55,12	135,36	131,40	107,11	62,76
		27	19,0	174,83	170,87	128,41	44,00	166,40	162,44	125,09	48,94	155,52	151,56	120,56	55,67	143,53	139,57	115,56	63,34
		30	21,1	187,19	183,23	136,23	44,70	178,04	174,08	132,63	49,64	166,36	162,40	127,79	56,39	151,98	148,01	121,78	63,95
		34	23,2	198,78	194,82	149,39	45,38	189,08	185,11	145,98	50,33	176,36	172,40	140,88	57,07	162,69	158,73	135,15	64,75
	31500	24	17,1	170,12	164,08	127,95	43,74	161,42	155,38	124,15	48,64	150,45	144,41	119,24	55,34	142,48	136,44	115,60	60,33
		27	19,0	179,56	173,52	137,10	44,26	170,72	164,68	133,62	49,20	159,35	153,31	128,89	55,92	151,06	145,02	125,42	60,92
		30	21,1	192,13	186,10	145,47	44,99	181,90	175,86	141,41	49,88	168,58	162,54	136,10	56,54	159,79	153,75	132,82	61,53
		34	23,2	203,60	197,56	161,15	45,67	193,07	187,03	156,33	50,59	180,40	174,37	151,03	57,35	171,33	165,29	147,23	62,38
URTT 204	21950	24	17,1	176,67	175,05	121,29	48,98	168,44	166,81	117,40	54,53	158,00	156,38	112,37	62,01	146,41	144,78	106,78	70,39
		27	19,0	187,86	186,24	128,78	49,58	179,23	177,61	124,80	55,15	168,07	166,45	119,34	62,63	153,99	152,37	112,25	70,91
		30	21,1	199,42	197,80	133,95	50,21	190,39	188,77	130,17	55,81	177,95	176,33	124,59	63,26	164,85	163,23	119,18	71,66
		34	23,2	213,18	211,55	145,44	51,00	203,43	201,81	141,68	56,59	190,84	189,22	136,45	64,10	175,52	173,90	130,20	72,42
	30500	24	17,1	189,27	185,52	138,09	49,66	179,99	176,25	133,80	55,19	167,04	163,30	127,70	62,57	154,10	150,35	121,95	70,92
		27	19,0	198,42	194,67	145,89	50,16	188,97	185,22	142,12	55,71	176,76	173,01	137,06	63,19	163,31	159,56	131,48	71,56
		30	21,1	212,36	208,61	154,62	50,96	202,10	198,35	150,61	56,50	189,00	185,25	145,19	63,98	172,84	169,09	138,51	72,23
		34	23,2	225,41	221,67	169,51	51,72	214,53	210,78	165,69	57,28	200,27	196,52	160,21	64,73	184,91	181,16	153,69	73,10
	35500	24	17,1	193,03	187,38	145,55	49,86	183,30	177,65	141,33	55,39	171,02	165,36	135,85	62,82	162,12	156,46	131,83	68,27
		27	19,0	203,68	198,02	155,88	50,45	193,79	188,13	151,99	56,00	181,05	175,39	146,72	63,46	171,75	166,09	142,85	68,93
		30	21,1	217,89	212,23	165,27	51,28	206,38	200,73	160,75	56,77	191,46	185,81	154,81	64,14	181,58	175,93	151,17	69,61
		34	23,2	230,77	225,11	181,22	52,05	218,97	213,32	177,71	57,56	204,75	199,10	171,78	65,03	194,57	188,92	167,54	70,53
URTT 244	26000	24	17,1	210,72	208,33	144,16	57,87	201,41	199,02	139,61	63,80	189,97	187,58	134,11	71,89	177,34	174,95	128,16	81,06
		27	19,0	223,91	221,52	153,10	58,88	214,41	212,02	148,73	64,85	202,18	199,79	142,77	72,96	187,46	185,07	135,24	82,02
		30	21,1	237,74	235,35	159,21	60,06	227,90	225,51	155,14	66,08	214,11	211,71	148,78	74,14	199,93	197,54	143,01	83,35
		34	23,2	254,21	251,82	172,84	61,60	243,52	241,13	168,71	67,63	229,83	227,44	163,10	75,81	212,94	210,55	155,97	84,85
	37000	24	17,1	226,74	220,56	164,76	59,12	216,21	210,03	159,89	65,02	201,97	195,79	153,23	72,95	192,65	186,47	149,12	78,90
		27	19,0	237,77	231,59	174,21	60,05	227,29	221,11	170,11	66,01	213,81	207,63	164,57	74,09	204,11	197,93	160,57	80,07
		30	21,1	254,44	248,26	184,81	61,62	243,11	236,93	180,38	67,58	228,70	222,52	174,51	75,68	216,86	210,68	169,46	81,50
		34	23,2	270,12	263,94	202,87	63,22	258,11	251,93	198,67	69,20	242,37	236,19	192,35	77,27	230,96	224,78	187,65	83,23
	43000	24	17,1	230,92	221,50	172,62	59,47	220,32	210,90	168,08	65,38	206,76	197,33	162,05	73,40	197,09	187,67	157,76	79,35
		27	19,0	243,96	234,54	185,27	60,61	233,02	223,60	180,99	66,55	218,95	209,53	175,21	74,61	208,79	199,37	171,02	80,57
		30	21,1	260,77	251,34	196,48	62,25	248,05	238,62	191,51	68,10	231,57	222,14	185,02	76,00	220,78	211,36	181,05	81,96
		34	23,2	276,23	266,81	218,26	63,88	263,30	253,88	211,92	69,81	247,71	238,29	205,47	77,93	236,59	227,17	200,85	83,96
URTT 276	30500	24	17,1	239,88	237,37	165,44	66,00	229,21	226,70	160,52	73,30	215,23	212,72	153,77	83,36	199,74	197,23	146,40	94,95
		27	19,0	255,62	253,11	176,13	66,99	244,03	241,52	170,78	74,32	229,09	226,58	163,49	84,40	210,26	207,75	154,17	95,82
		30	21,1	271,39	268,88	183,35	68,09	259,01	256,50	178,06	75,44	242,57	240,06	170,87	85,51	225,10	222,59	163,66	97,16
		34	23,2	290,15	287,64	199,25	69,48	277,10	274,59	194,22	76,89	259,75	257,24	186,30	87,01	239,74	237,23	178,98	98,57
	42500	24	17,1	257,36	251,29	188,47	67,12	244,40	238,32	182,45	74,36	227,48	221,41	174,63	84,28	216,12	210,04	169,59	91,80
		27	19,0	269,72	263,64	199,31	67,96	257,05	250,97	194,35	75,28	240,76	234,68	187,60	85,35	229,00	222,92	182,73	92,91
		30	21,1	288,77	282,69	211,43	69,37	275,06	268,98	206,07	76,72	257,36	251,28	198,80	86,80	243,13	237,05	192,85	94,21
		34	23,2	306,51	300,44	232,14	70,77	292,02	285,94	227,07	78,15	272,73	266,65	219,30	88,22	259,35	253,27	213,62	95,82
	48500	24	17,1	261,53	252,75	196,85	67,40	248,44	239,66	191,14	74,64	232,12	223,34	183,88	84,65	220,42	211,64	178,62	92,17
		27	19,0	275,85	267,07	210,84	68,40	262,70	253,92	205,68	75,72	245,79	237,01	198,68	85,77	233,60	224,82	193,63	93,32
		30	21,1	295,18	286,39	223,62	69,87	280,07	271,29	217,78	77,13	259,96	251,18	209,71	87,02	247,01	238,23	204,94	94,58
		34	23,2	312,75	303,97	245,99	71,29	297,12	288,34	240,70	78,61	278,21	269,43	232,79	88,76	264,83	256,05	227,22	96,39

*** Bold values are at 50 °C outdoor conditions.**

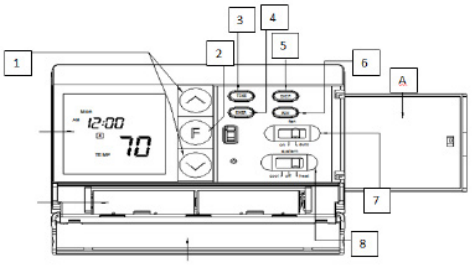
08 ROOM CONTROL UNITS

8.1. STANDARD ROOM CONTROL UNIT



Technical Specification

- Set Point Range: 7 ~ 35 ˚C
- Display: Larger LCD Display
- Material: PC/ABS Fire Retardant
- Compressor Protection: 4 min. delay
- Operating Humidity: 5 ~ 90% RH
- Mounting: Surface Mounting
- Power Supply: 24 VAC / 2AA Alkaline Batteries



Standard Features

- Stylish design, digital display
- Cool/Off/Heat and Fan Auto/On selection
- Cooling + Electric heater
- Integrated sensor
- Uptime counter for filter
- Ability to set the program as temporary or permanent

The table that describes the functions of the keys is given below.

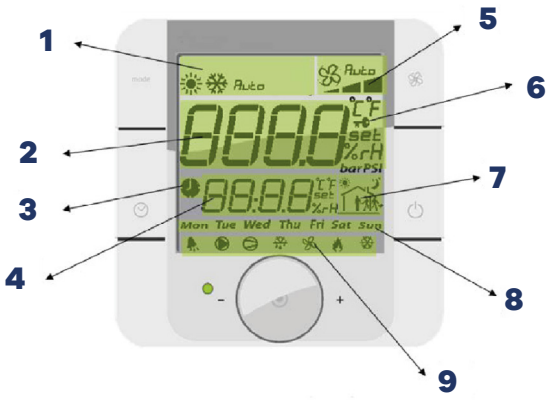
Key Number	Name	Function
1	Up-Down Key	The transition between the menus, increase-decrease function, change the temperature set-up.
2	F	Backlight key on screen
3	TIME	Provides access to the setting menu of Time - Day setting. When pressed once, it provides transition between an hour-minute-day set up.
4	EMER	Function NA
5	ENER	It opens the menu showing the unit's working time. Pressing once allows you to switch between today, yesterday, this weeek, last week, and the menus showing total working hours. When this menu is pressed for more than 3 seconds, the time counters are reset.
6	RUN	Allows return to the main screen.
7	FAN	Provides supply fan control. The fan operates continuously when in "On" mode, while it operates only if heating or cooling is needed when it is in "Auto" mode.
8	SYSTEM	Activates heating/cooling mode. When "heat" is selected, the heater is activated when it is required. When "cool" is selected, the refrigerant becomes active when cooling is required. When "off" is selected, the heating or cooling outputs of the unit are inactivated.

8.2. UPC ROOM CONTROLLER

AVAILABLE WITH MICROPROCESSOR OPTION ONLY

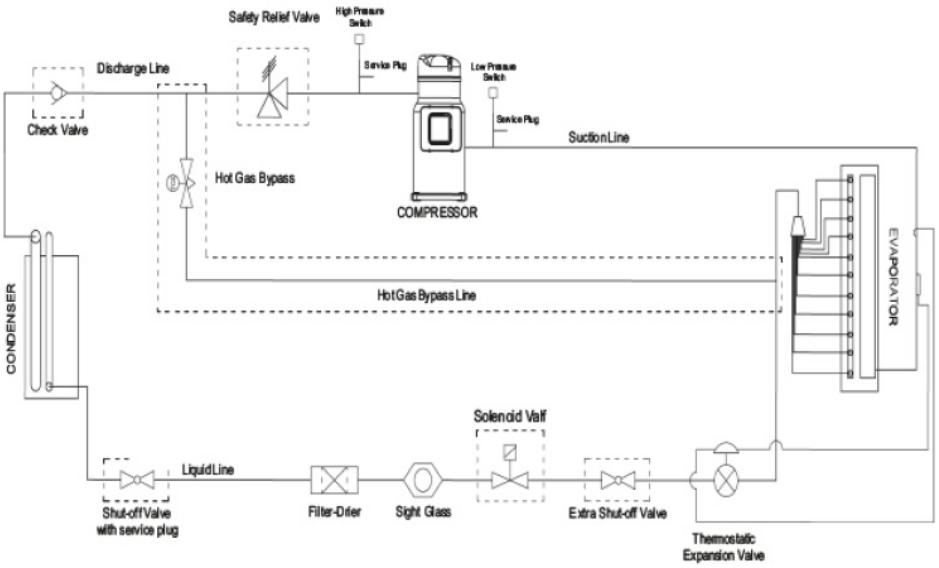
Standard Features

- "Mode Area": heating, cooling, automatic transition.
- "Big Area": selected value (room temperature, set values, etc.) are displayed with its unit. If rotating menu is selected, more than one value can be seen by pressing the setting key.
- "Time Band": Passive/Active
- "Small Area": the selected value can be seen with its unit or time value can be seen. The values displayed in this area cannot be changed.
- "Fan Area": The control status of inner unit fan is seen.
- "Function Lock": it shows that the big area variable is locked against setting.
- "Time Band Area": It shows which time band is active.
- "Day Area": it shows the day.
- "Icon Area": it shows the icons belonging to fan, alarm, etc. conditions.



09 REFIGERANT CIRCUIT & ELECTRICAL CONNECTION

9.1. REFRIGERANT CIRCUIT



Optional Features. Refer to Untes for details.

9.2 ELECTIRICAL CONNECTION

The electrical connections of the control panel must comply with the following rules. These rules must be followed for the sake of the user safety and to ensure the expected operation of the unit.

- EThe equipment and cables to be used for the wiring must be selected in accordance with the maximum current values given in the following charts and catalogues. The schematics will also appear on the cover of the control panel.

- The supply line must reach the control panel directly after the thermic magnetic switch installed outside. There should be no interruption, insertion or intermediate element on the line.

- Connections, overcurrent protection and magnetic switches must comply with CEI EN 60204 European norms. In addition to magnetic protection, if the leakage current protection relay is to be used, this relay should have a 30-300mA block. This will protect the operator against insulation failures.

- Grounding cable cross sections must absolutely not be below the values given in the diagrams.

- The route of the power supply cables should not interfere with the service doors of the unit. These instructions must be completed by the user before the commissioning!

10 POWER INFORMATION INCLUDING OPTIONS

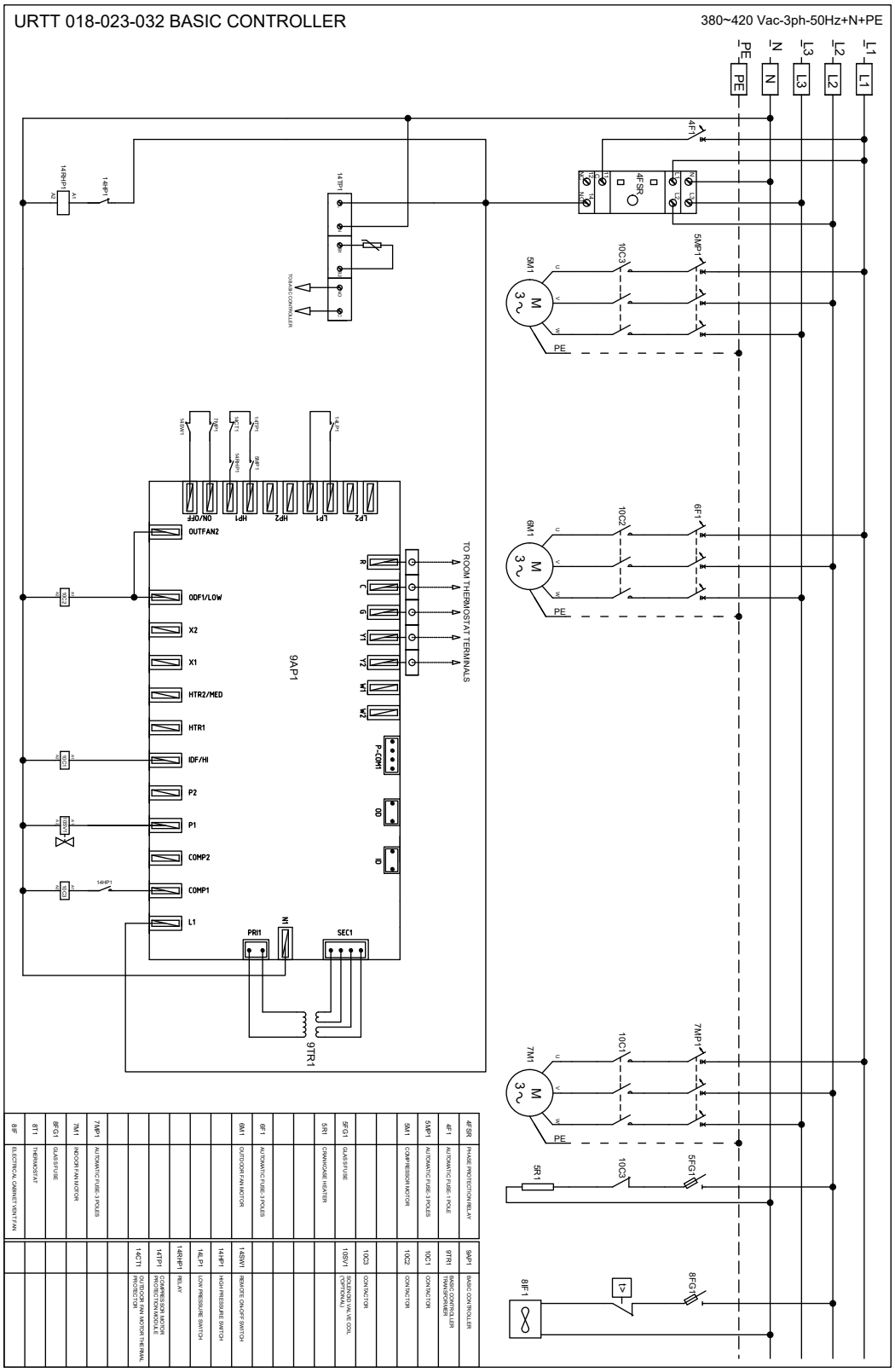
MODEL	Pressure Class	UNIT			Compressor		Outdoor Fan Motor		Indoor Fan Motor		Electrical Heater(*) Low Capacity	Electrical Heater(*) High Capacity	Electrical Heater(*) Superior Capacity
		MOP	MCA	ICF	RLA	LRA	FLA	LRA	FLA	LRA	RLA	RLA	RLA
018	Low	40	21	91	12,5	75	2,2	6,5	1,7	6	8,3	16,6	30,0
	Med.	40	21	91					2,2	11			
	High	40	22	92					2,7	15			
023	Low	40	29	129	14,5	101	2,2	6,5	2,2	11	8,3	16,6	38,0
	Med.	40	30	130					2,7	15			
	High	50	31	131					3,7	22			
032	Low	63	35	133	18,8	123	5	19	2,7	15	16,6	30,0	23 I 23
	Med.	63	36	134					3,7	22			
	High	63	38	135					5,3	31			
037	Low	63	38	108	12.7 I 12.7	75 I 75	4,8	20	2,7	15	16,6	30,0	29 I 29
	Med.	63	39	109					3,7	22			
	High	63	40	110					5,3	31			
047	Low	80	53	153	14.6 I 14.6	101 I 101	3,9	13	3,7	22	16.6 I 16.6	23.2 I 23.2	35 I 35
	Med.	80	54	154					5,3	31			
	High	80	56	156					6,9	43			
054	Low	100	60	155	14.6 I 18.2	101 I 123	2.2 I 5.0	6.5 I 19	5,3	31	16.6 I 16.6	23.2 I 23.2	38 I 38
	Med.	100	62	156					6,9	43			
	High	100	63	158					8,6	57			
064	Low	100	67	164	18.2 I 18.2	123 I 123	5.0 I 5.0	19 I 19	6,9	43	16.6 I 16.6	23.2 I 23.2	48 I 48
	Med.	100	68	166					8,6	57			
	High	100	72	169					11,8	83			
072	Low	125	78	197	18.9 I 24.0	123 I 145	5.0 I 4.8	19 I 20	6,9	43	21.5 I 21.5	29.5 I 29.5	56 I 56
	Med.	125	79	199					8,6	57			
	High	125	82	202					11,8	83			
080	Low	100	71	186	24.0 I 24.0	145 I 145	4.8 I 4.8	20 I 20	6,9	43	21.5 I 21.5	33.2 I 33.2	60 I 60
	Med.	100	72	187					8,6	57			
	High	100	75	190					11,8	83			

MOP Maximum Ov ercurrent Protection (circuit breaker sizing) as per NEC article 440-22 & 430-52.
MCA Maximum Circuit Amps. (wiri sizing) as per NEC article 440-33.
ICF Maximum Instantaneous Current F low
RLA Rated Load Amps. (at worst operation conditions)
FLA Full Load Amps.
LRA Locked Rotor Amps.

MODEL	Pressure Class	UNIT			Compressor		Outdoor Fan Motor		Indoor Fan Motor		Electrical Heater(*) Low Capacity	Electrical Heater(*) High Capacity	Electrical Heater(*) Superior Capacity
		MOP	MCA	ICF	RLA	LRA	FLA	LRA	FLA	LRA	RLA	RLA	RLA
094	Low	125	80	217	28.1 I 28.1	172 I 172	3.9 I 3.9	13 I 13	8,6	57	21.5 I 21.5	35 I 35	68 I 68
	Med.	125	83	220					11,8	83			
	High	125	87	224					16,2	115			
108	Low	160	97	262	28.1 I 37.2	172 I 211	3.9 I 5.0+5.0	15.6 I 19+19	8,6	57	28.2 I 28.2	44 I 44	77 I 77
	Med.	160	100	265					11,8	83			
	High	160	105	269					16,2	115			
122	Low	160	112	277	37.2 I 37.2	211 I 211	5.0+5.0 I 5.0+5.0	19+19 I 19+19	8,6	57	34.4 I 34.4	53 I 53	88 I 88
	Med.	160	115	280					11,8	83			
	High	160	120	284					16,2	115			
138	Low	200	131	292	37.2 I 50.1	211 I 210	5.0+5.0 I 4.8+4.8	19+19 I 20+20	11,8	83	34.4 I 34.4	53 I 53	97 I 97
	Med.	200	136	297					16,2	115			
	High	200	142	303					22, 1	153			
154	Low	250	144	291	50.1I 50.1	210 I 210	4.8+4.8 I 4.8+4.8	20+20 I 20+20	11,8	83	41 I 41	61 I 61	102 I 102
	Med.	250	148	296					16,2	115			
	High	250	154	301					22, 1	153			
155	Low	250	144	289	50.1I 50.1	210 I 210	3.9+3.9 I 3.9+3.9	13+13 I 13+13	11,8	83	41 I 41	61 I 61	106 I 106
	Med.	250	148	294					16,2	115			
	High	250	154	300					22,1	153			
176	Low	250	169	377	50.1 I 63.5	210 I 287	4.8+4.8 I 6.8+6.8	20+20 I 32+32	16,2	115	45 I 45	61 I 61	112 I 112
	Med.	250	175	382					22,1	153			
	High	250	184	392					31,4	235			
179	Low	250	169	376	50.1 I 63.5	210 I 287	6.8+6.8 I 4.7+4.7	32+32 I 20+20	16,2	115	45 I 45	69 I 69	118 I 118
	Med.	250	175	382					22,1	153			
	High	320	184	391					31,4	253			
204	Low	320	169	386	63.5 I 63.5	287 I 287	4.7+4.7 I 4.7+4.7	20+20 I 20+20	16,2	115	53 I 53	77 I 77	123 I 123
	Med.	320	175	391					22,1	153			
	High	320	184	401					31,4	235			
244	Low	320	169	368	37.2+31.2 I 37.2+37.2	211+211 I 211+211	3.9+3.9+3.9 I 3.9+3.9+3.9	13+13+13 I 13+ 13+ 13	22,1	153	61 I 61	88 I 88	166 I 166
	Med.	320	175	377					31,4	235			
	High	320	184	383					37,4	270			
276	Low	320	169	381	37.2+50.1 I 37.2+50.1	211+210 I 211+210	3.9+3.9+3.9 I 3.9+3.9+3.9	13+13+13 I 13+13+13	22,1	153	66 I 66	97 I 97	186 I 186
	Med.	400	175	390					31,4	235			
	High	400	184	396					37,4	270			

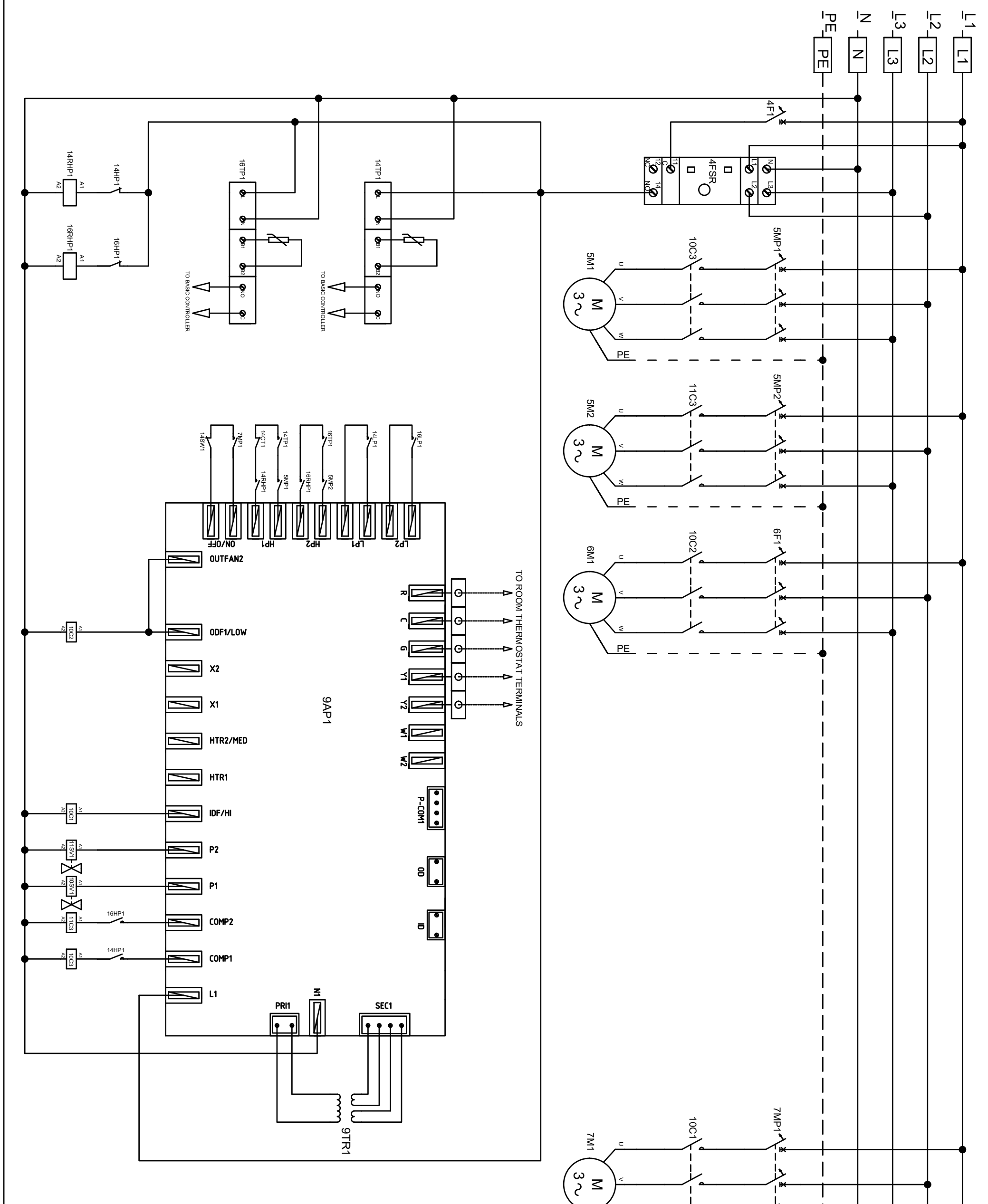
MOP Maximum Overcurrent Protection (circuit breaker sizing) as per NEC article 440-22 & 430-52.
MCA Maximum Circuit Amps. (wiri sizing) as per NEC article 440-33.
ICF Maximum Instantaneous Current Flow
RLA Rated Load Amps. (at worst operation conditions)
FLA Full Load Amps.
LRA Locked Rotor Amps.

11 TYPICAL WIRING DIAGRAM

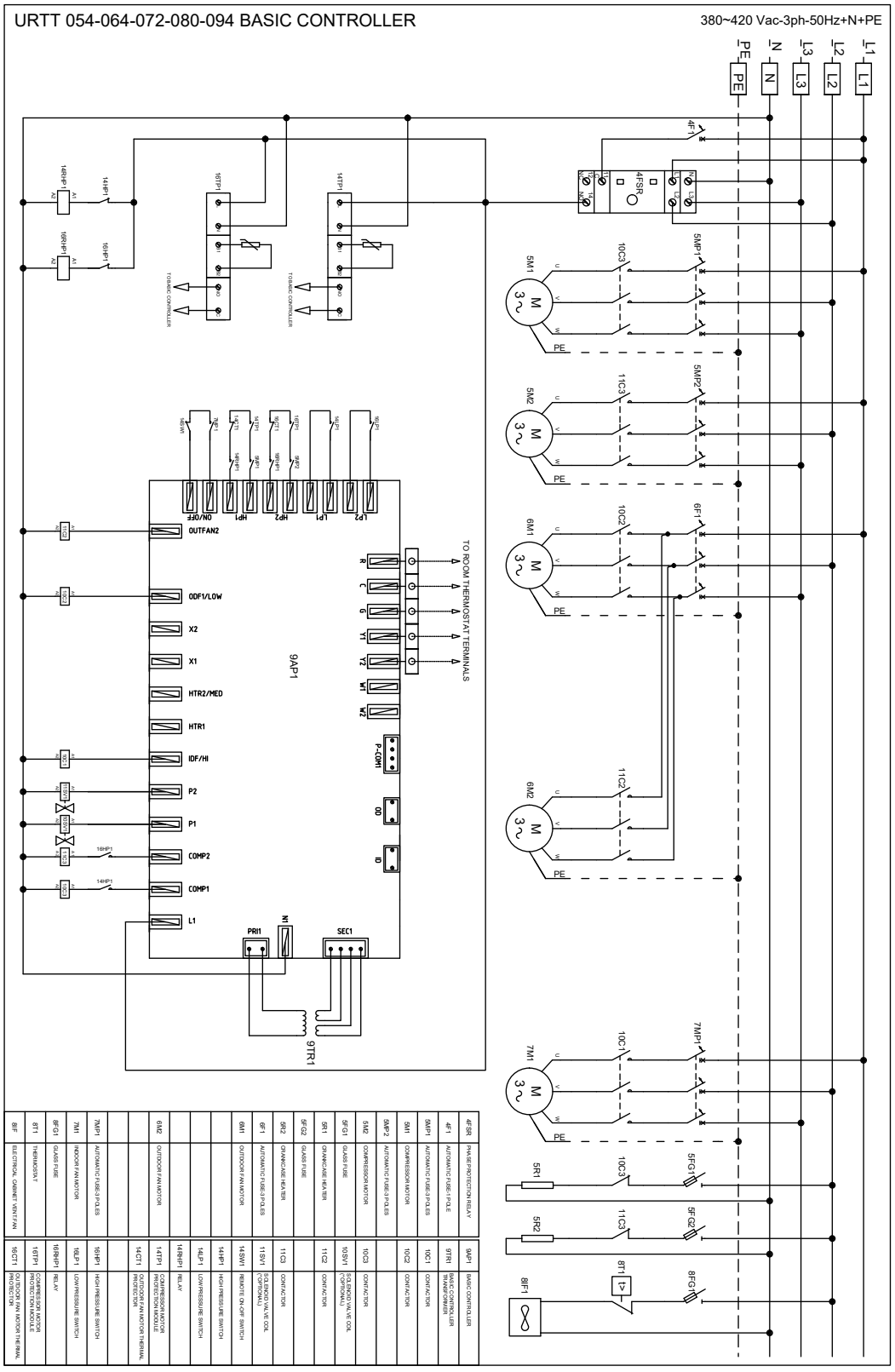


URTT 037-047 BASIC CONTROLLER

380~420 Vac-3ph-50Hz+N+PE

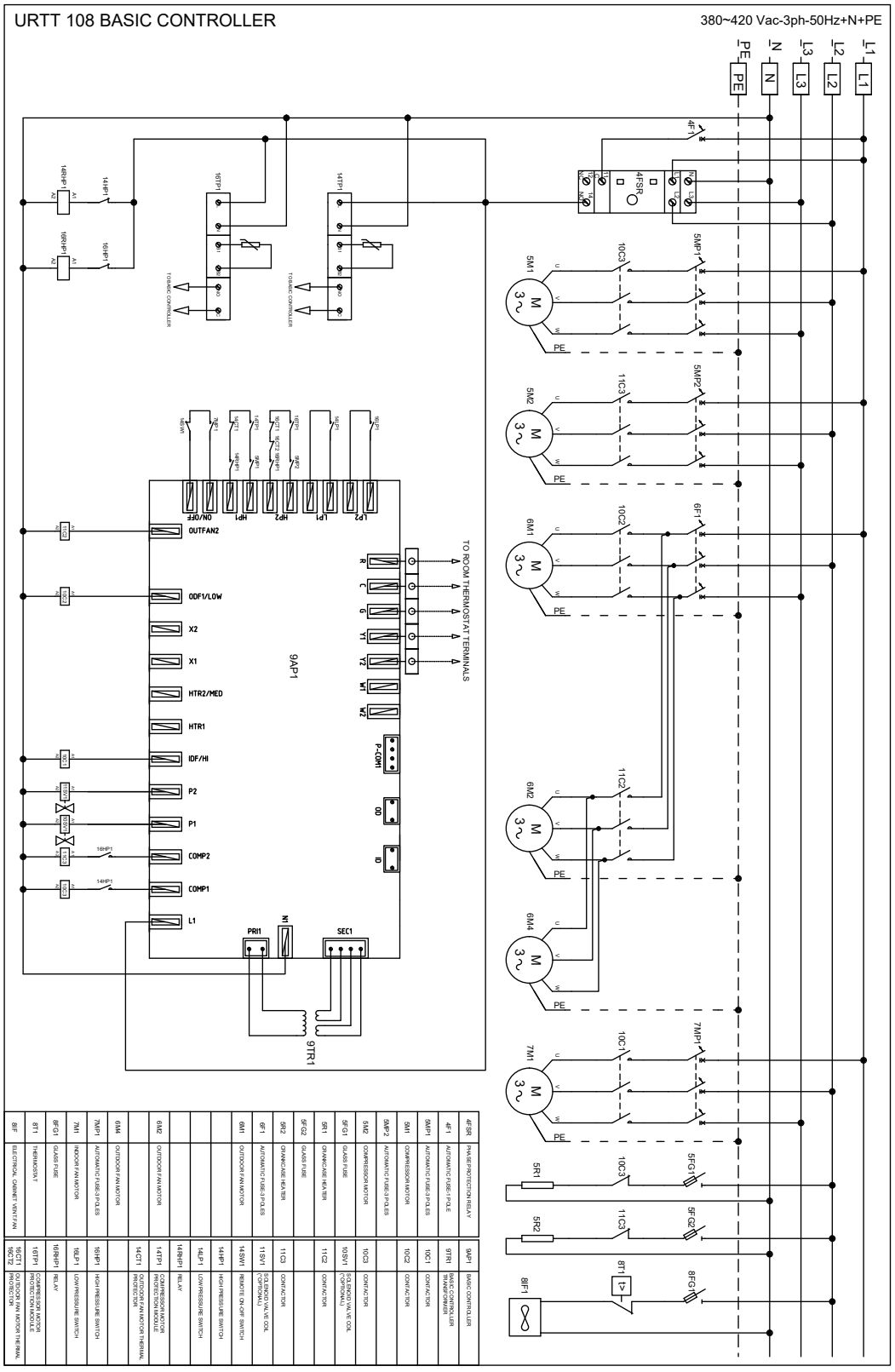


4FSR	PHASE PROTECTION RELAY	9AP1	BASIC CONTROLLER
4F1	AUTOMATIC FUSE-1 POLE	9TR1	BASIC CONTROLLER TRANSFORMER
5MP1	AUTOMATIC FUSE-3 POLES	10C1	CONTACTOR
5M1	COMPRESSOR MOTOR	10C2	CONTACTOR
5MP2	AUTOMATIC FUSE-3 POLES		
5M2	COMPRESSOR MOTOR	10C3	CONTACTOR
5FG1	GLASS FUSE	10SV1	SOLENOID VALVE COIL (*OPTIONAL)
5R1	CRANKCASE HEATER		
5FG2	GLASS FUSE		
5R2	CRANKCASE HEATER	11C3	CONTACTOR
6F1	AUTOMATIC FUSE-3 POLES	11SV1	SOLENOID VALVE COIL (*OPTIONAL)
6M1	OUTDOOR FAN MOTOR	14SW1	REMOTE ON-OFF SWITCH
		14HP1	HIGH PRESSURE SWITCH
		14LP1	LOW PRESSURE SWITCH
		14RHP1	RELAY
		14TP1	COMPRESSOR MOTOR PROTECTION MODULE
		14CT1	OUTDOOR FAN MOTOR THERMAL PROTECTOR
7MP1	AUTOMATIC FUSE-3 POLES	16HP1	HIGH PRESSURE SWITCH
7M1	INDOOR FAN MOTOR	16LP1	LOW PRESSURE SWITCH
8FG1	GLASS FUSE	16RHP1	RELAY
8T1	THERMOSTAT	16TP1	COMPRESSOR MOTOR PROTECTION MODULE
8IF	ELECTRICAL CABINET VENT.FAN		

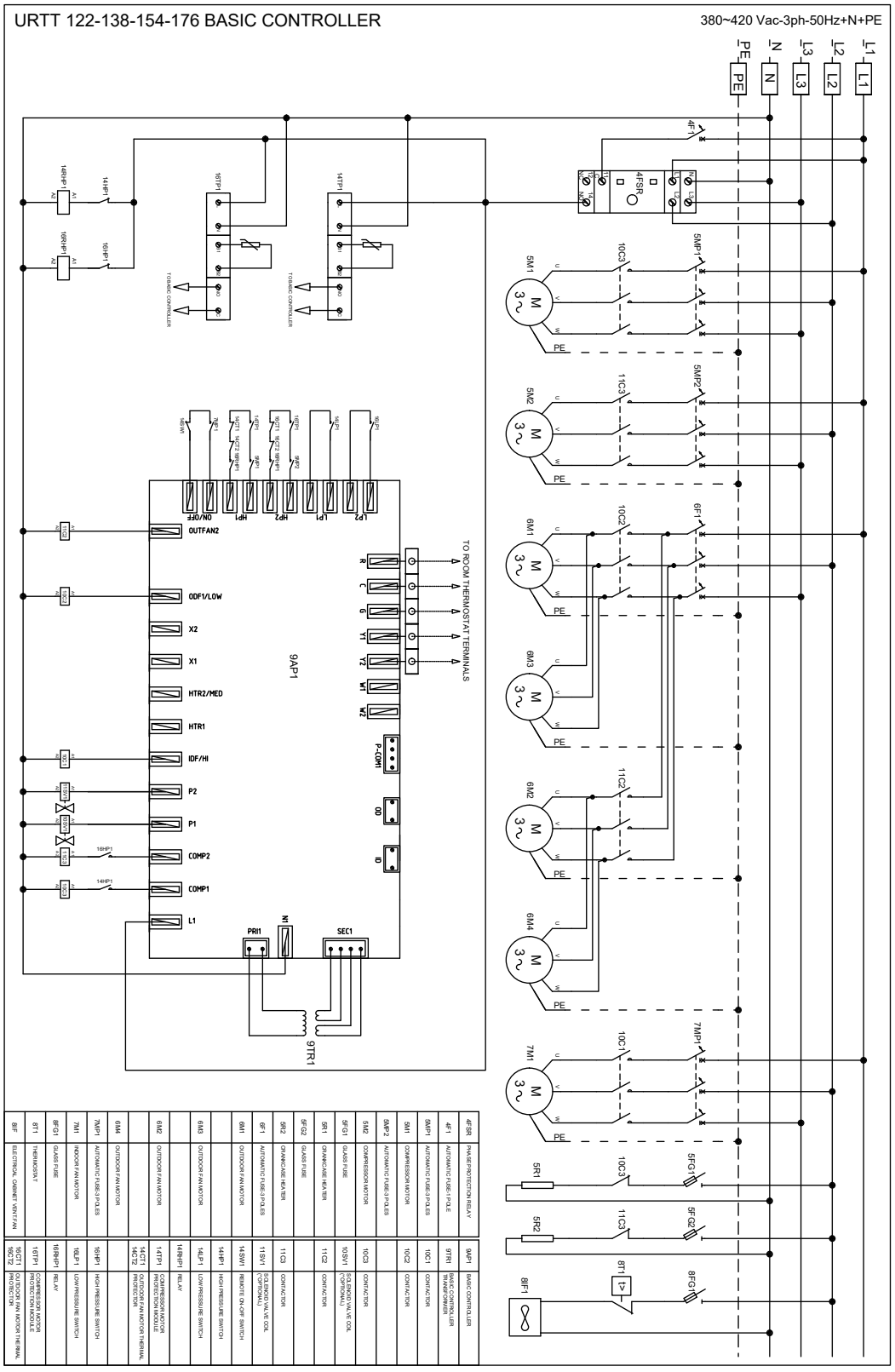


4FSR	PHASE PROTECTION RELAY	
4F1	AUTOMATIC FUSE-1 POLE	
5MP1	AUTOMATIC FUSE-3 POLES	
5M1	COMPRESSOR MOTOR	
5MP2	AUTOMATIC FUSE-3 POLES	
5M2	COMPRESSOR MOTOR	
5FG1	GLASS FUSE	
5R1	CRANKCASE HEATER	
5FG2	GLASS FUSE	
5R2	CRANKCASE HEATER	
6F1	AUTOMATIC FUSE-3 POLES	
6M1	OUTDOOR FAN MOTOR	
6M2	OUTDOOR FAN MOTOR	
7MP1	AUTOMATIC FUSE-3 POLES	
7M1	INDOOR FAN MOTOR	
8FG1	GLASS FUSE	
8T1	THERMOSTAT	
8IF1	ELECTRICAL CABINET VENT FAN	

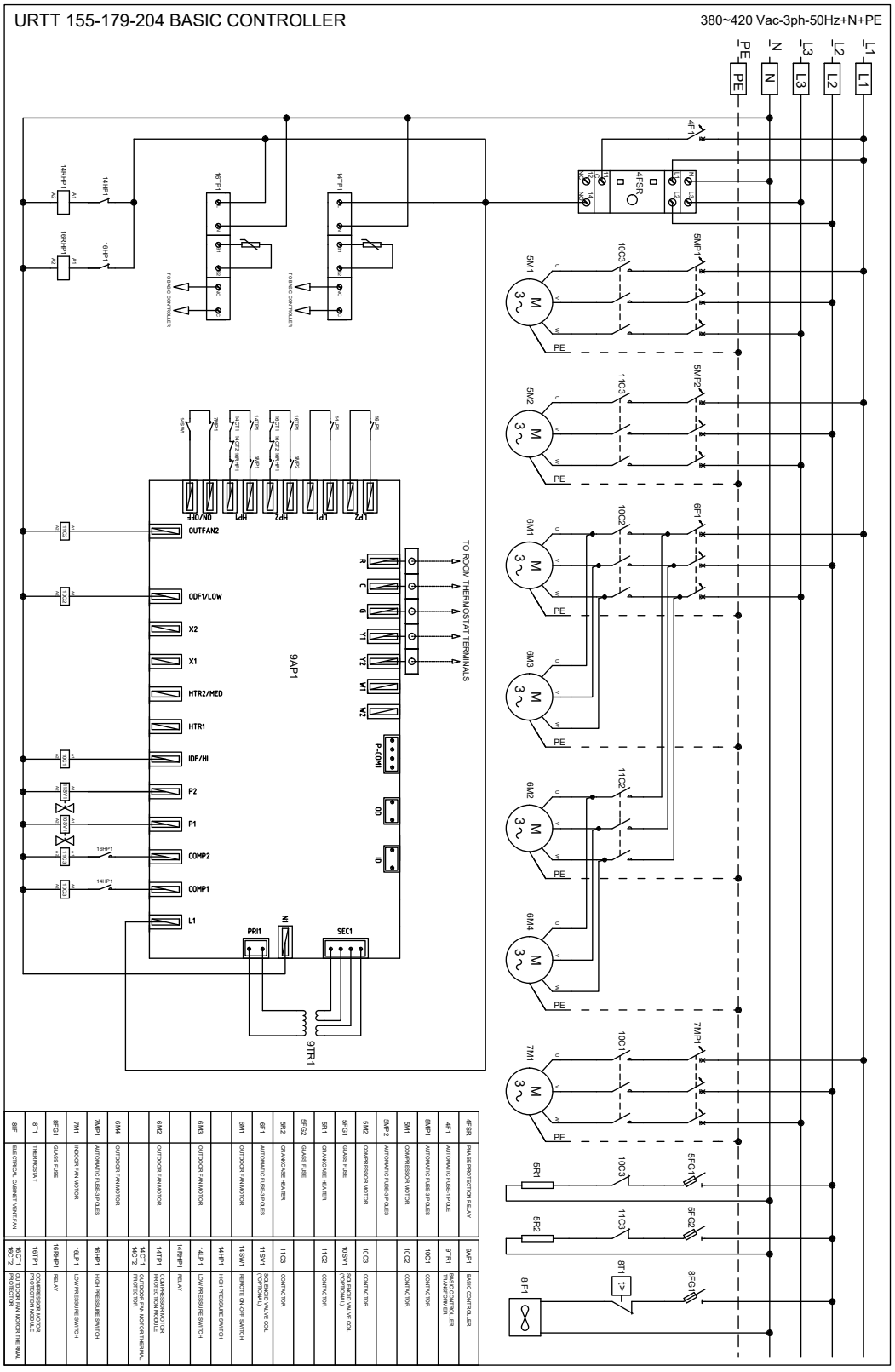
9AP1	BASIC CONTROLLER	
9TR1	BASIC CONTROLLER TRANSFORMER	
10C1	CONTACTOR	
10C2	CONTACTOR	
10C3	CONTACTOR	
10SV1	SOLENOID VALVE COIL (OPTIONAL)	
11C2	CONTACTOR	
11C3	CONTACTOR	
11SV1	SOLENOID VALVE COIL (OPTIONAL)	
14SW1	REMOTE ON-OFF SWITCH	
14HP1	HIGH PRESSURE SWITCH	
14LP1	LOW PRESSURE SWITCH	
14RHP1	RELAY	
14TP1	COMPRESSOR MOTOR PROTECTION MODULE	
14CT1	OUTDOOR FAN MOTOR THERMAL PROTECTOR	
16HP1	HIGH PRESSURE SWITCH	
16LP1	LOW PRESSURE SWITCH	
16RHP1	RELAY	
16TP1	COMPRESSOR MOTOR PROTECTION MODULE	
16CT1	OUTDOOR FAN MOTOR THERMAL PROTECTOR	



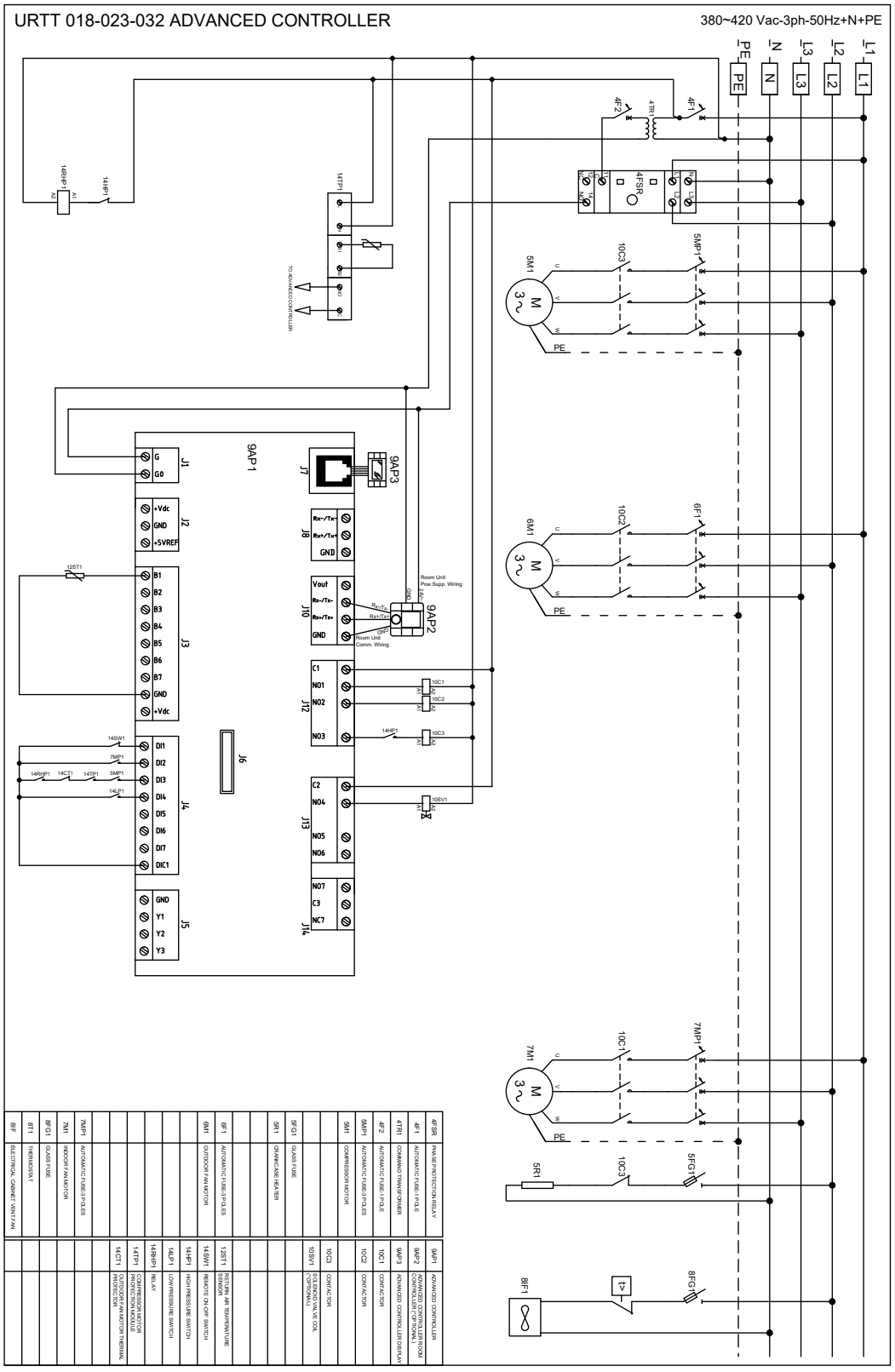
4FSR	PHASE PROTECTION RELAY	
4F1	AUTOMATIC FUSE-1 POLE	
5MP1	AUTOMATIC FUSE-3 POLES	
5M1	COMPRESSOR MOTOR	
5MP2	AUTOMATIC FUSE-3 POLES	
5M2	COMPRESSOR MOTOR	
5FG1	GLASS FUSE	
10SV1	SOLENOID VALVE COIL (OPTIONAL)	
10C2	CONTACTOR	
10C1	CONTACTOR	
9TR1	BASIC CONTROL UNIT TRANSFORMER	
9AP1	BASIC CONTROLLER	
6M1	OUTDOOR FAN MOTOR	
6F1	AUTOMATIC FUSE-3 POLES	
6M2	OUTDOOR FAN MOTOR	
6M4	OUTDOOR FAN MOTOR	
7MP1	AUTOMATIC FUSE-3 POLES	
7M1	INDOOR FAN MOTOR	
8FG1	GLASS FUSE	
8T1	THERMOSTAT	
8IF	ELECTRICAL CABINET VENT FAN	
14CT1	OUTDOOR FAN MOTOR THERMAL PROTECTOR	
14TP1	COMPRESSOR MOTOR PROTECTION MODULE	
14HP1	HIGH PRESSURE SWITCH	
14LP1	LOW PRESSURE SWITCH	
14HRP1	RELAY	
16HP1	HIGH PRESSURE SWITCH	
16LP1	LOW PRESSURE SWITCH	
16HRP1	RELAY	
16TP1	COMPRESSOR MOTOR PROTECTION MODULE	
16CT1	OUTDOOR FAN MOTOR THERMAL PROTECTOR	



4FSR	PHASE PROTECTION RELAY	
4F1	AUTOMATIC FUSE-1 POLE	
5MP1	AUTOMATIC FUSE-3 POLES	
5M1	COMPRESSOR MOTOR	
5MP2	AUTOMATIC FUSE-3 POLES	
5M2	COMPRESSOR MOTOR	
5FG1	GLASS FUSE	
5R1	CRANKCASE HEATER	
5FG2	GLASS FUSE	
5R2	CRANKCASE HEATER	
6F1	AUTOMATIC FUSE-3 POLES	
6M1	OUTDOOR FAN MOTOR	
6M2	OUTDOOR FAN MOTOR	
6M3	OUTDOOR FAN MOTOR	
6M4	OUTDOOR FAN MOTOR	
7MP1	AUTOMATIC FUSE-3 POLES	
7M1	INDOOR FAN MOTOR	
8FG1	GLASS FUSE	
8T1	THERMOSTAT	
8IF1	ELECTRICAL CABINET VENT FAN	
9AP1	BASIC CONTROLLER	
9TR1	BASIC CONTROLLER TRANSFORMER	
10C1	CONTACTOR	
10C2	CONTACTOR	
10C3	CONTACTOR	
10SV1	SOLENOID VALVE COIL (OPTIONAL)	
11C2	CONTACTOR	
11C3	CONTACTOR	
11SV1	SOLENOID VALVE COIL (OPTIONAL)	
14SW1	REMOTE ON-OFF SWITCH	
14HP1	HIGH PRESSURE SWITCH	
14LP1	LOW PRESSURE SWITCH	
14HRP1	RELAY	
14TP1	COMPRESSOR MOTOR PROTECTION MODULE	
14CT1 14CT2	OUTDOOR FAN MOTOR THERMAL PROTECTOR	
16HP1	HIGH PRESSURE SWITCH	
16LP1	LOW PRESSURE SWITCH	
16HRP1	RELAY	
16TP1	COMPRESSOR MOTOR PROTECTION MODULE	
16CT1 16CT2	OUTDOOR FAN MOTOR THERMAL PROTECTOR	

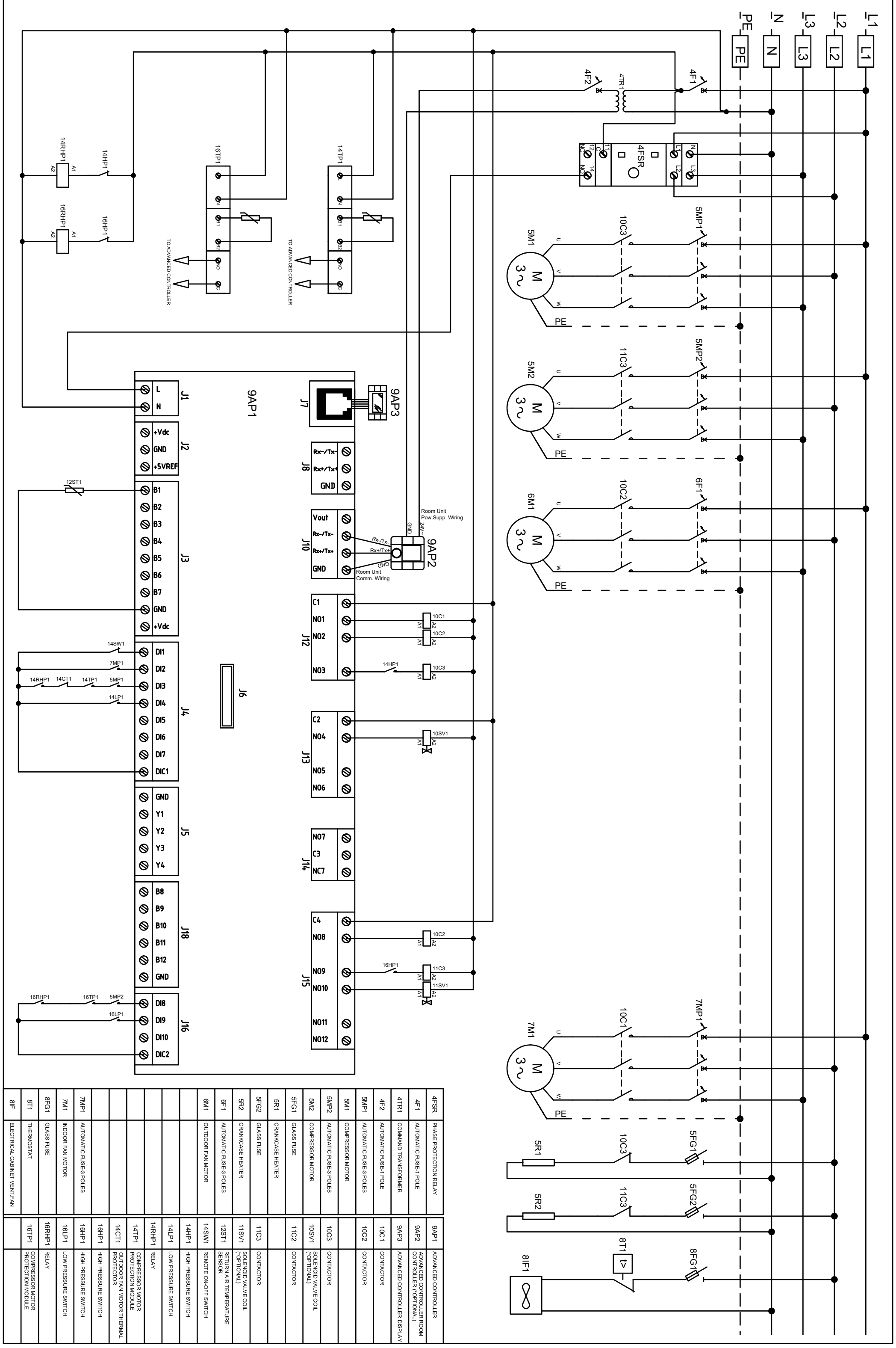


4FSR	PHASE PROTECTION RELAY	
4F1	AUTOMATIC FUSE 1 POLE	
5MP1	AUTOMATIC FUSES 3 POLES	
5M1	COMPRESSOR MOTOR	
5MP2	AUTOMATIC FUSES 3 POLES	
5M2	COMPRESSOR MOTOR	
5FG1	GLASS FUSE	
10SV1	SOLENOID VALVE COIL (OPTIONAL)	
10C1	CONTACTOR	
10C2	CONTACTOR	
10C3	CONTACTOR	
9TR1	BASIC CONTROL UNIT TRANSFORMER	
9AP1	BASIC CONTROLLER	
6F1	AUTOMATIC FUSES 3 POLES	
6M1	OUTDOOR FAN MOTOR	
11SV1	SOLENOID VALVE COIL (OPTIONAL)	
11C2	CONTACTOR	
11C3	CONTACTOR	
5R1	DYNAMIC CARE HEATER	
5FG2	GLASS FUSE	
5R2	DYNAMIC CARE HEATER	
6F1	AUTOMATIC FUSES 3 POLES	
6M1	OUTDOOR FAN MOTOR	
14SW1	REMOTE ON-OFF SWITCH	
14HP1	HIGH PRESSURE SWITCH	
14LP1	LOW PRESSURE SWITCH	
14RHP1	RELAY	
14TP1	COMPRESSOR MOTOR PROTECTION MODULE	
14CT1 14CT2	OUTDOOR FAN MOTOR THERMAL PROTECTOR	
6M2	OUTDOOR FAN MOTOR	
6M3	OUTDOOR FAN MOTOR	
6M4	OUTDOOR FAN MOTOR	
7MP1	AUTOMATIC FUSES 3 POLES	
7M1	INDOOR FAN MOTOR	
8FG1	GLASS FUSE	
8T1	THERMOSTAT	
8F	ELECTRICAL CABINET VENT FAN	
16HP1	HIGH PRESSURE SWITCH	
16LP1	LOW PRESSURE SWITCH	
16RHP1	RELAY	
16TP1	COMPRESSOR MOTOR PROTECTION MODULE	
16CT1 16CT2	OUTDOOR FAN MOTOR THERMAL PROTECTOR	

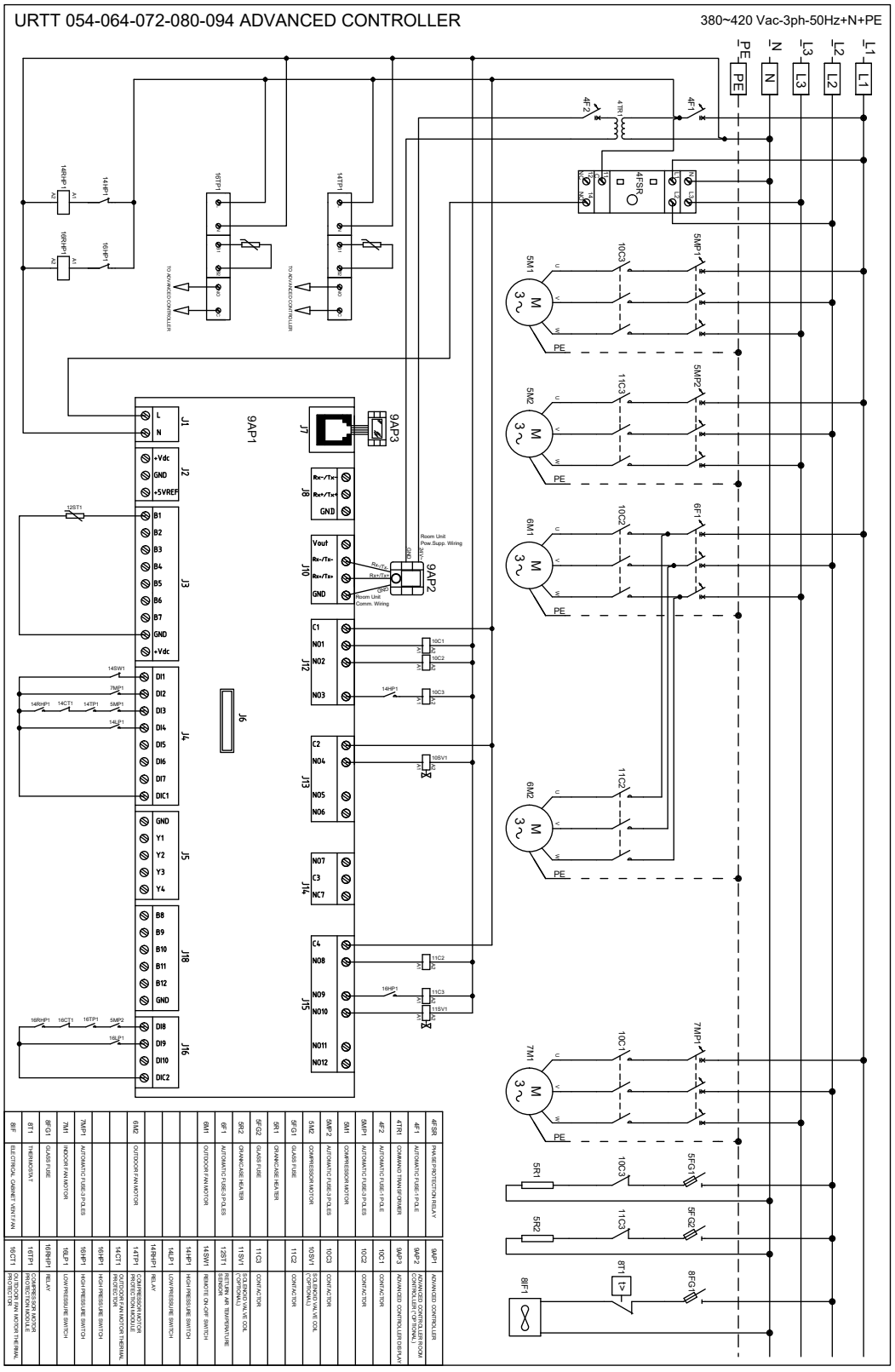

URTT 018-023-032 ADVANCED CONTROLLER
380~420 Vac-3ph-50Hz+N+PE
PE
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L2
L1
4F1
4F2
4TR1
4FSR
5M1
6M1
7M1
5MP1
6F1
7MP1
10C3
10C2
10C1
PE
9AP1
9AP2
9AP3
J1
J2
J3
J4
J5
J6
J7
J8
J10
J12
J13
J14
G
G0
+Vdc
GND
+5VREF
B1
B2
B3
B4
B5
B6
B7
DI1
DI2
DI3
DI4
DI5
DI6
DI7
DIC1
Y1
Y2
Y3
C1
NO1
NO2
NO3
C2
NO4
NO5
NO6
NO7
C3
NC7
Vout
Rx-/Tx-
Rx+/Tx+
Room Unit
Prow.Supp. Wiring
Comm. Wiring
5R1
8FG1
8FG2
8IF1
14HP1
14LP1
14TP1
12ST1
14SW1
7MP1
5MP1
14CT1
14TH1
14RHP1
14CT1
9AP1 ADVANCED CONTROLLER
9AP2 ADVANCED CONTROLLER ROOM CONTROLLER (OPTIONAL)
9AP3 ADVANCED CONTROLLER DISPLAY
4FSR PHASE PROTECTION RELAY
4F1 AUTOMATIC FUSES 4 POLE
4TR1 COMMAND TRANSFORMER
4F2 AUTOMATIC FUSES 4 POLE
5M1 COMPRESSOR MOTOR
6M1 AUTOMATIC FUSES 3 POLES
7M1 OUTDOOR FAN MOTOR
10C1 CONTACTOR
10C2 CONTACTOR
10C3 CONTACTOR
10SV1 SOLENOID VALVE COIL (OPTIONAL)
5R1 CRANKCASE HEATER
8FG1 GLASS FUSE
8FG2 GLASS FUSE
8IF1 ELECTRICAL CABINET VENT FAN
8IT1 THERMOSTAT
7MP1 AUTOMATIC FUSES 3 POLES
14HP1 HIGH PRESSURE SWITCH
14LP1 LOW PRESSURE SWITCH
14RHP1 RELAY
14TP1 DISCHARGE/SUCTION PROTECTION MODULE
14CT1 OUTDOOR FAN MOTOR THERMAL PROTECTOR
12ST1 RETURN AIR TEMPERATURE SENSOR
14SW1 REMOTE ON-OFF SWITCH

URTT 037-047 ADVANCED CONTROLLER

380~420 Vac-3ph-50Hz+N+PE

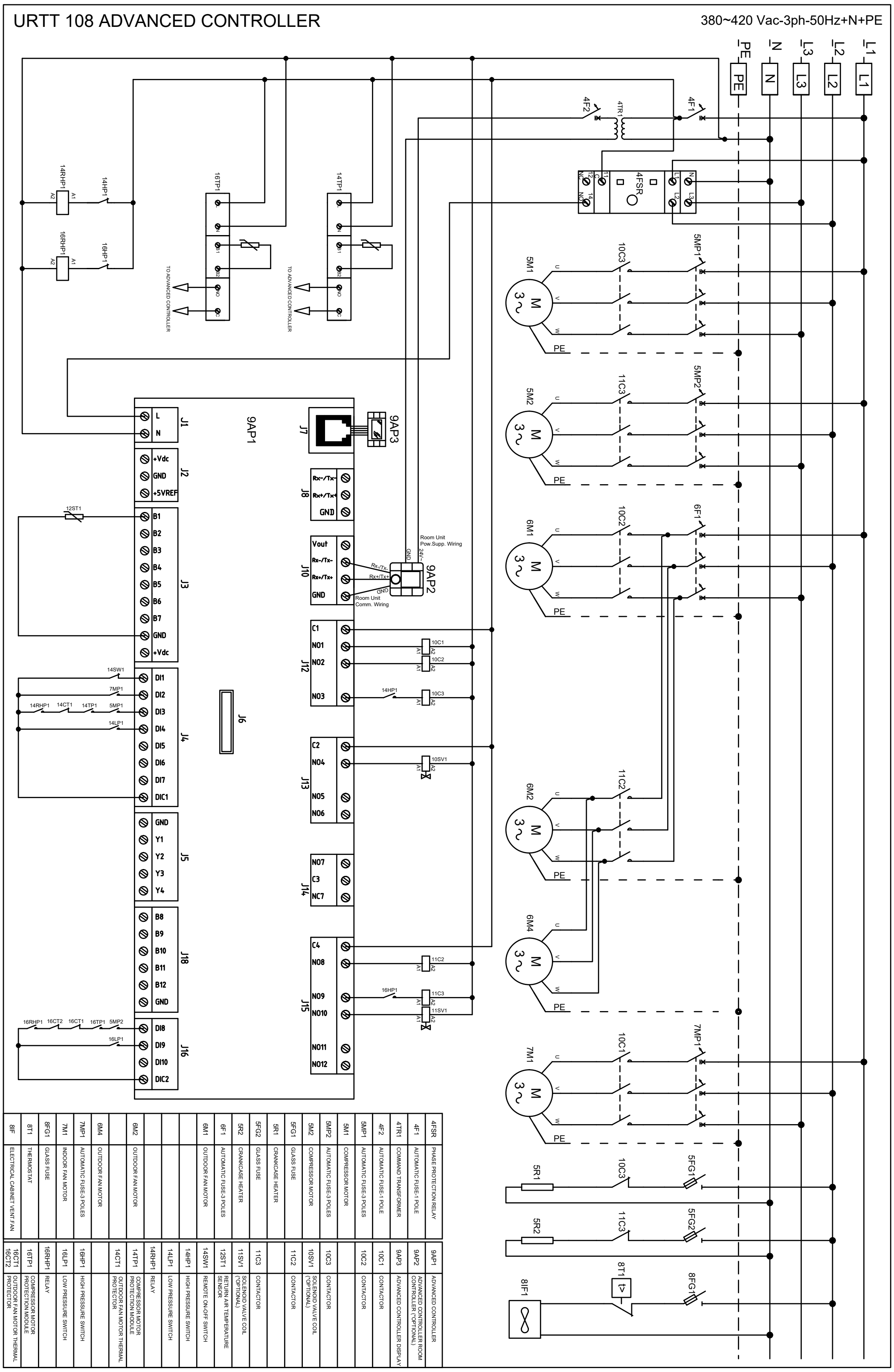


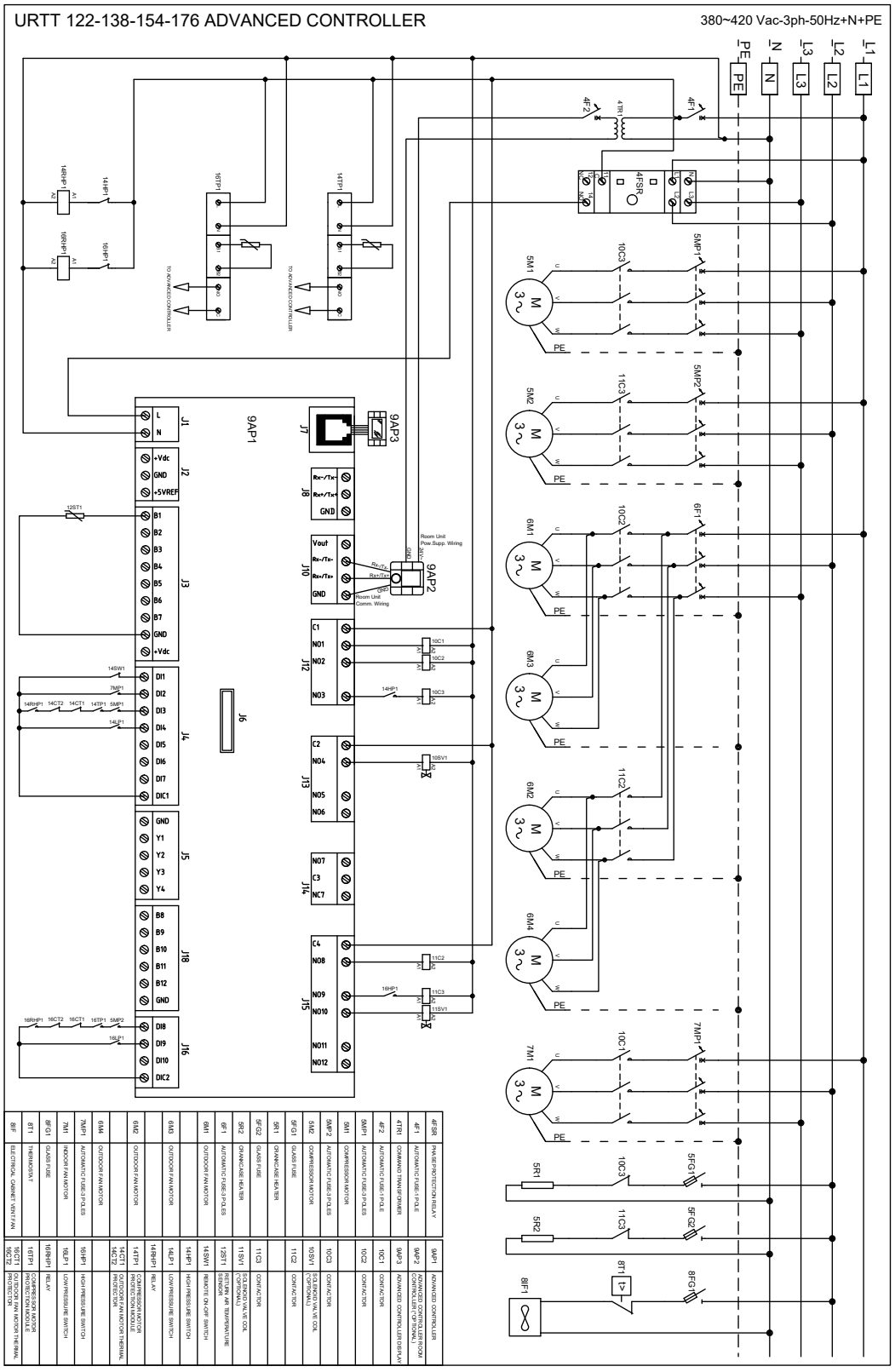
4FSR	PHASE PROTECTION RELAY	9AP1	ADVANCED CONTROLLER
4F1	AUTOMATIC FUSE-1 POLE	9AP2	ADVANCED CONTROLLER ROOM CONTROLLER (*OPTIONAL)
4TR1	COMMAND TRANSFORMER	9AP3	ADVANCED CONTROLLER DISPLAY
4F2	AUTOMATIC FUSE-1 POLE	10C1	CONTACTOR
5MP1	AUTOMATIC FUSE-3 POLES	10C2	CONTACTOR
5M1	COMPRESSOR MOTOR		
5MP2	AUTOMATIC FUSE-3 POLES	10C3	CONTACTOR
5M2	COMPRESSOR MOTOR	10SV1	SOLENOID VALVE COIL (*OPTIONAL)
5FG1	GLASS FUSE	11C2	CONTACTOR
5R1	CRANKCASE HEATER		
5FG2	GLASS FUSE	11C3	CONTACTOR
5R2	CRANKCASE HEATER	11SV1	SOLENOID VALVE COIL (*OPTIONAL)
6F1	AUTOMATIC FUSE-3 POLES	12ST1	RETURN AIR TEMPERATURE SENSOR
6M1	OUTDOOR FAN MOTOR	14SW1	REMOTE ON-OFF SWITCH
		14HP1	HIGH PRESSURE SWITCH
		14LP1	LOW PRESSURE SWITCH
		14RHP1	RELAY
		14TP1	COMPRESSOR MOTOR PROTECTION MODULE
		14CT1	OUTDOOR FAN MOTOR THERMAL PROTECTOR
		16HP1	HIGH PRESSURE SWITCH
7MP1	AUTOMATIC FUSE-3 POLES	16HP1	HIGH PRESSURE SWITCH
7M1	INDOOR FAN MOTOR	16LP1	LOW PRESSURE SWITCH
8FG1	GLASS FUSE	16RHP1	RELAY
8T1	THERMOSTAT	16TP1	COMPRESSOR MOTOR PROTECTION MODULE
8IF	ELECTRICAL CABINET VENT.FAN		



4FSR	4F1	PHASE PROTECTION RELAY
4TR1	4F2	AUTOMATIC CUBES 3 POLES
9AP3	9AP1	COMMAND TRANSFORMER
10C1	5MP1	ADVANCED CONTROLLER DISPLAY
10C2	5M1	AUTOMATIC CUBES 3 POLES
10C3	5MP2	COMPRESSOR MOTOR
10SV1	6MP2	AUTOMATIC CUBES 3 POLES
11C2	6M2	COMPRESSOR MOTOR
11C3	6F1	GLASS FUSE
11SV1	5R1	CRANKCASE HEATER
12ST1	5FG2	GLASS FUSE
14HP1	6F2	CRANKCASE HEATER
14LP1	6M1	AUTOMATIC CUBES 3 POLES
14RHP1	7MP1	OUTDOOR FAN MOTOR
14TP1	7M1	AUTOMATIC CUBES 3 POLES
14CT1	8FG1	OUTDOOR FAN MOTOR
16HP1	8IF1	GLASS FUSE
16LP1	8BT1	ELECTRICAL CABINET VENT FAN
16RHP1	9AP2	THERMOSTAT
16TP1	9AP3	ADVANCED CONTROLLER ROOM CONTROLLER (OPTIONAL)
16CT1	9AP1	ADVANCED CONTROLLER

cold hot

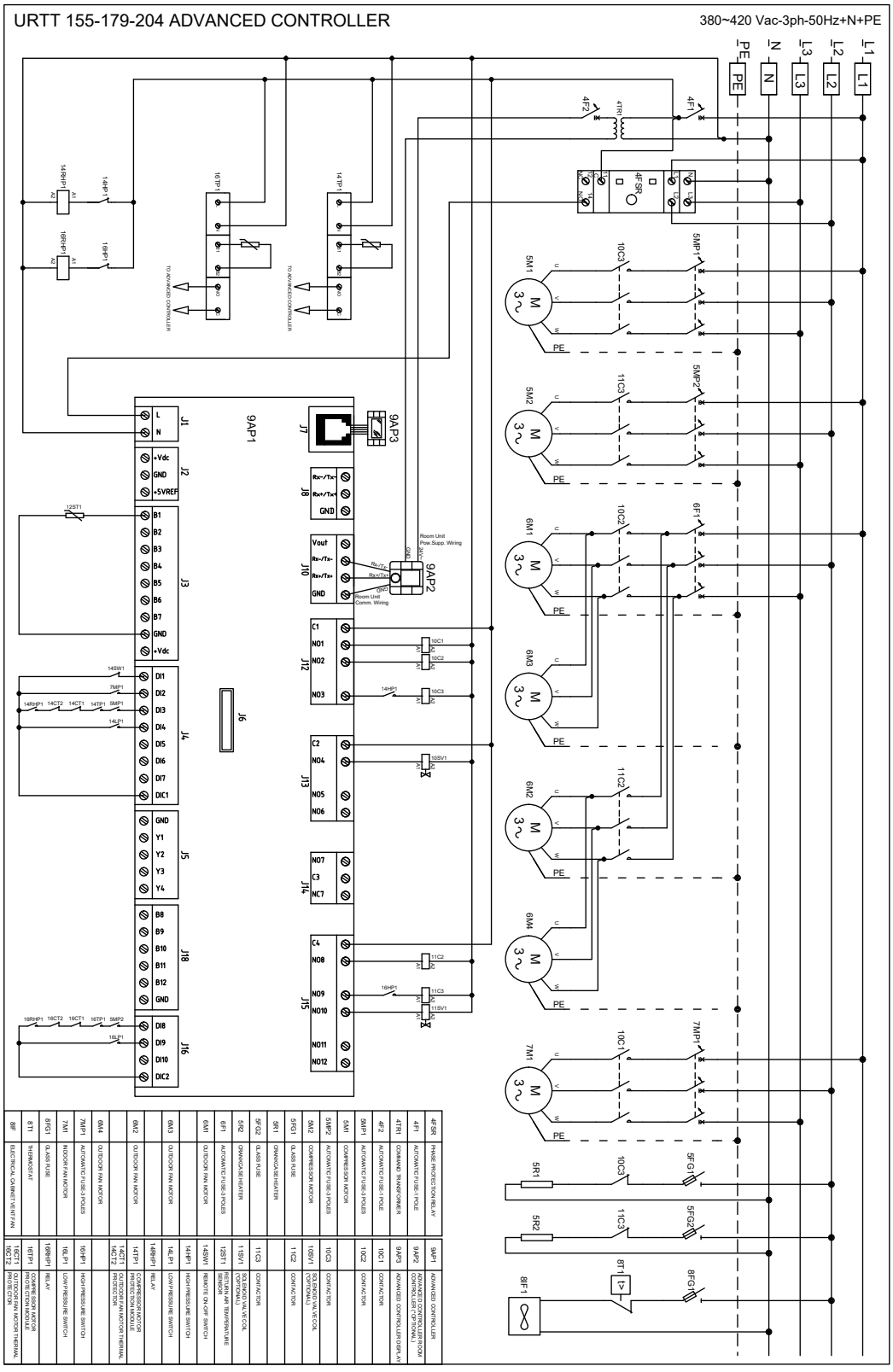




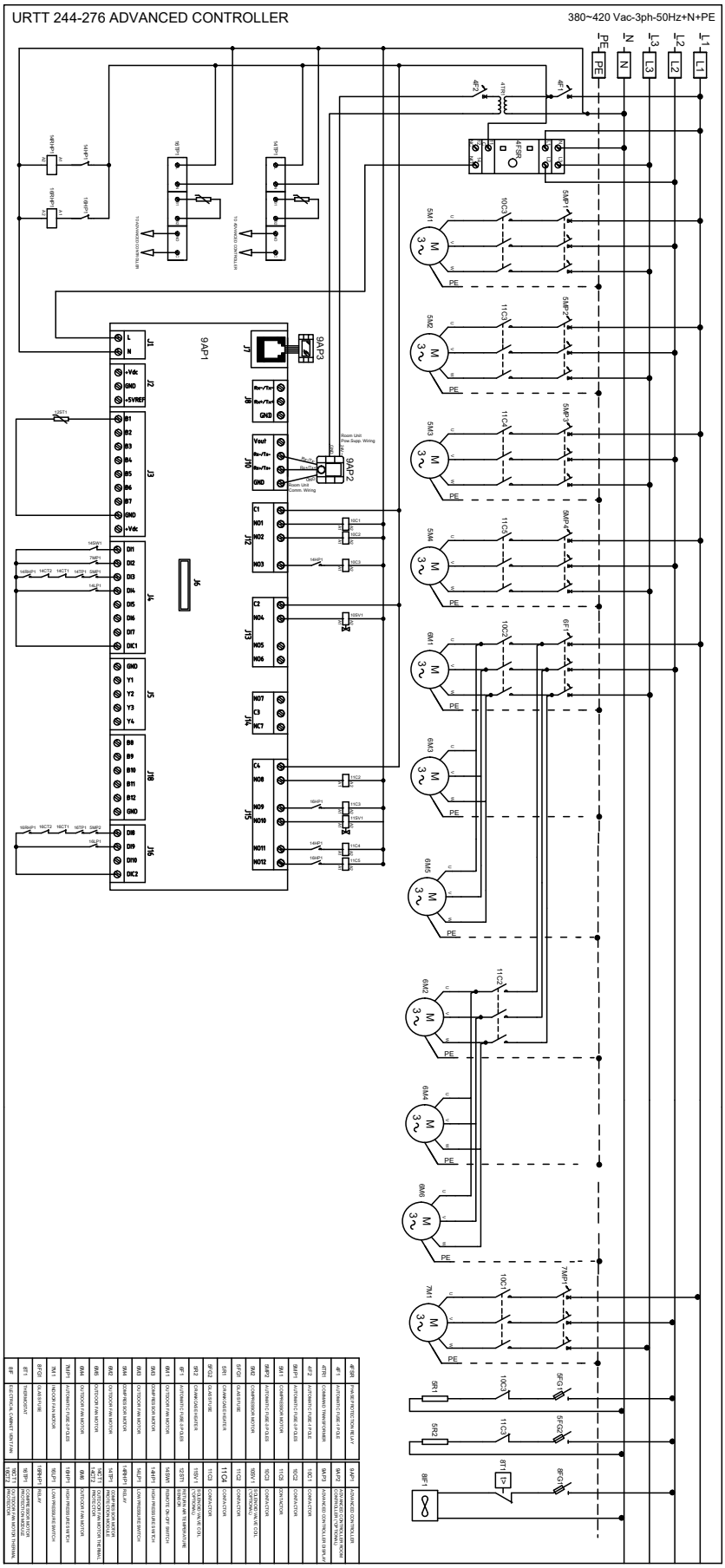
4FSR	4F1	PHASE PROTECTION RELAY
4F1	AUTOMATIC CUBES 3 POLE	
4TR1	COMMAND TRANSFORMER	
9AP3	ADVANCED CONTROLLER DISPLAY	
4F2	AUTOMATIC CUBES 3 POLE	
10C1	CONTACTOR	
5MP1	AUTOMATIC CUBES 3 POLES	
5M1	COMPRESSOR MOTOR	
10C2	CONTACTOR	
6MP1	AUTOMATIC CUBES 3 POLES	
6M1	COMPRESSOR MOTOR	
10C3	CONTACTOR	
6MP2	AUTOMATIC CUBES 3 POLES	
6M2	COMPRESSOR MOTOR	
10SV1	SOLENOID VALVE COIL (OPTIONAL)	
5FG1	GLASS FUSE	
11C2	CONTACTOR	
5R1	CRANKCASE HEATER	
5FG2	GLASS FUSE	
11C3	CONTACTOR	
11SV1	SOLENOID VALVE COIL (OPTIONAL)	
5R2	CRANKCASE HEATER	
8FG1	GLASS FUSE	
8T1	THERMOSTAT	
8IF	ELECTRICAL CABINET VENT FAN	

9AP1	ADVANCED CONTROLLER	
9AP2	ADVANCED CONTROLLER ROOM CONTROLLER (OPTIONAL)	
9AP3	ADVANCED CONTROLLER DISPLAY	
10C1	CONTACTOR	
10C2	CONTACTOR	
10C3	CONTACTOR	
10SV1	SOLENOID VALVE COIL (OPTIONAL)	
11C2	CONTACTOR	
11C3	CONTACTOR	
11SV1	SOLENOID VALVE COIL (OPTIONAL)	
12ST1	RETURN AIR TEMPERATURE SENSOR	
14SW1	REMOTE ON-OFF SWITCH	
14HP1	HIGH PRESSURE SWITCH	
14LP1	LOW PRESSURE SWITCH	
14RHP1	RELAY	
14TP1	COMPRESSOR MOTOR PROTECTION MODULE	
14CT1 14CT2	OUTDOOR FAN MOTOR THERMAL PROTECTOR	
16HP1	HIGH PRESSURE SWITCH	
16LP1	LOW PRESSURE SWITCH	
16RHP1	RELAY	
16TP1	COMPRESSOR MOTOR PROTECTION MODULE	
16CT1 16CT2	OUTDOOR FAN MOTOR THERMAL PROTECTOR	

6M3	OUTDOOR FAN MOTOR	
6M4	OUTDOOR FAN MOTOR	
7MP1	AUTOMATIC CUBES 3 POLES	
7M1	INDOOR FAN MOTOR	
8FG1	GLASS FUSE	
8T1	THERMOSTAT	
8IF	ELECTRICAL CABINET VENT FAN	

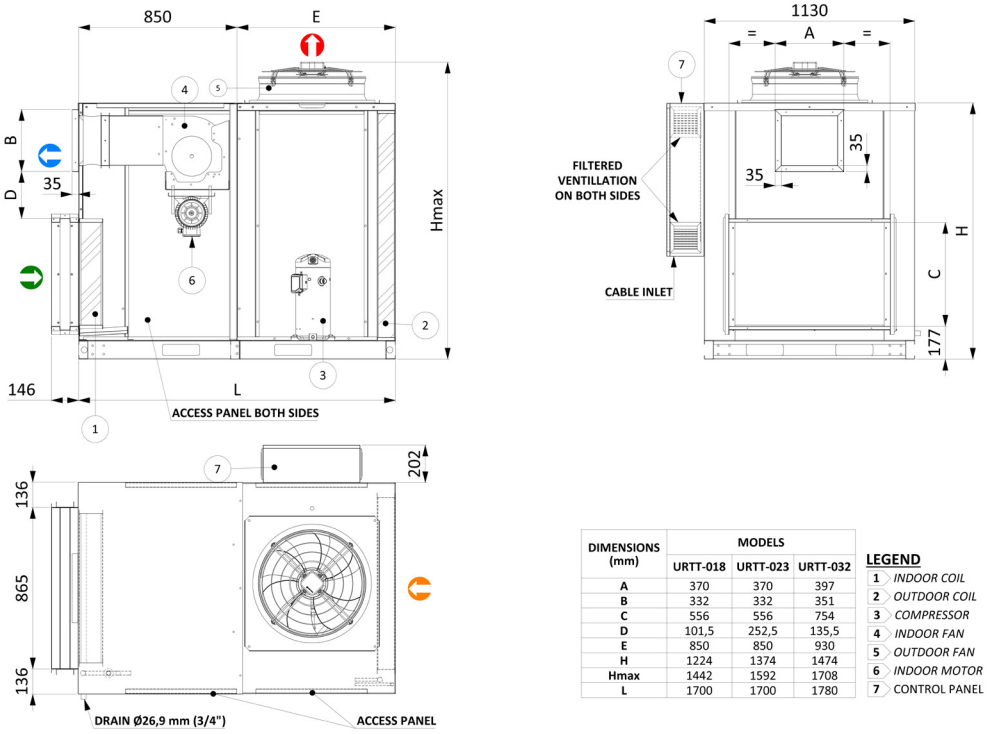


4F SR	PHASE PROTECTION RELAY	
4 F1	AUTOMATIC FUSE-1 POLE	
4TR1	COMMAND TRANSFORMER	
4F2	AUTOMATIC FUSE-1 POLE	
5MP1	AUTOMATIC FUSE-3 POLES	
5M1	COMPRESSOR MOTOR	
5MP2	AUTOMATIC FUSE-3 POLES	
5M2	COMPRESSOR MOTOR	
5FG1	GL-ASR FUSE	
5R1	CRANKCASE HEATER	
5FG2	GL-ASR FUSE	
5R2	CRANKCASE HEATER	
6F1	AUTOMATIC FUSE-3 POLES	
6M1	OUTDOOR FAN MOTOR	
6M3	OUTDOOR FAN MOTOR	
6M2	OUTDOOR FAN MOTOR	
6M4	OUTDOOR FAN MOTOR	
7M1	INDOOR FAN MOTOR	
7MP1	AUTOMATIC FUSE-3 POLES	
8FG1	GL-ASR FUSE	
8T1	TRANSFORMER	
8F	ELECTRICAL CABINET VENT FAN	
9AP1	ADVANCED CONTROLLER	
9AP3	ADVANCED CONTROLLER ROOM CONTROLLER (OPTIONAL)	
9AP2	ADVANCED CONTROLLER DISPLAY	
10C1	CONTACTOR	
10C2	CONTACTOR	
10C3	CONTACTOR	
10SV1	SOLENOID VALVE COIL (OPTIONAL)	
11C2	CONTACTOR	
11C3	CONTACTOR	
11SV1	SOLENOID VALVE COIL (OPTIONAL)	
12ST1	RETURN AIR TEMPERATURE SENSOR	
14SW1	REMOTE ON-OFF SWITCH	
14HP1	HIGH PRESSURE SWITCH	
14LP1	LOW PRESSURE SWITCH	
14RHP1	RELAY	
14TP1	COMPRESSOR MOTOR PROTECTION MODULE	
14CT1 14CT2	OUTDOOR FAN MOTOR THERMAL PROTECTOR	
16HP1	HIGH PRESSURE SWITCH	
16LP1	LOW PRESSURE SWITCH	
16RHP1	RELAY	
16TP1	COMPRESSOR MOTOR PROTECTION MODULE	
16CT1 16CT2	OUTDOOR FAN MOTOR THERMAL PROTECTOR	


URTT 244-276 ADVANCED CONTROLLER
380~420 Vac-3ph-50Hz+N+PE
PE
N
L3
L2
L1
9AP1
9AP2
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J1
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12 DIMENSIONS

12.1. UNIT DIMENSION DATA MODELS [018~032]

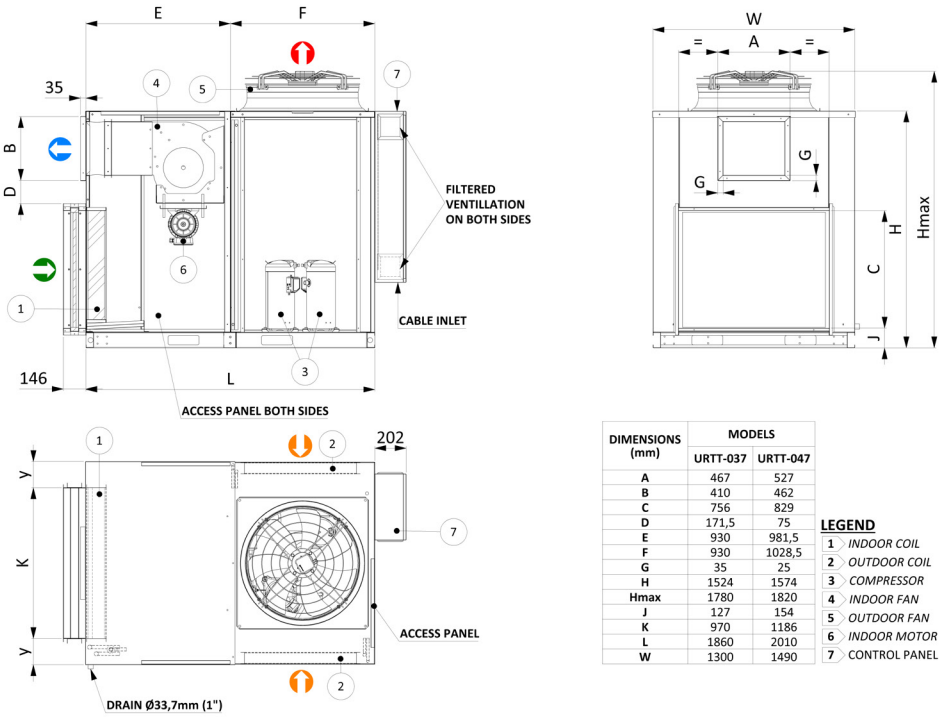


DIMENSIONS (mm)	MODELS		
	URTT-018	URTT-023	URTT-032
A	370	370	397
B	332	332	351
C	556	556	754
D	101,5	252,5	135,5
E	850	850	930
H	1224	1374	1474
Hmax	1442	1592	1708
L	1700	1700	1780

LEGEND

1. INDOOR COIL
2. OUTDOOR COIL
3. COMPRESSOR
4. INDOOR FAN
5. OUTDOOR FAN
6. INDOOR MOTOR
7. CONTROL PANEL

12.2. UNIT DIMENSION DATA MODELS [037~047]

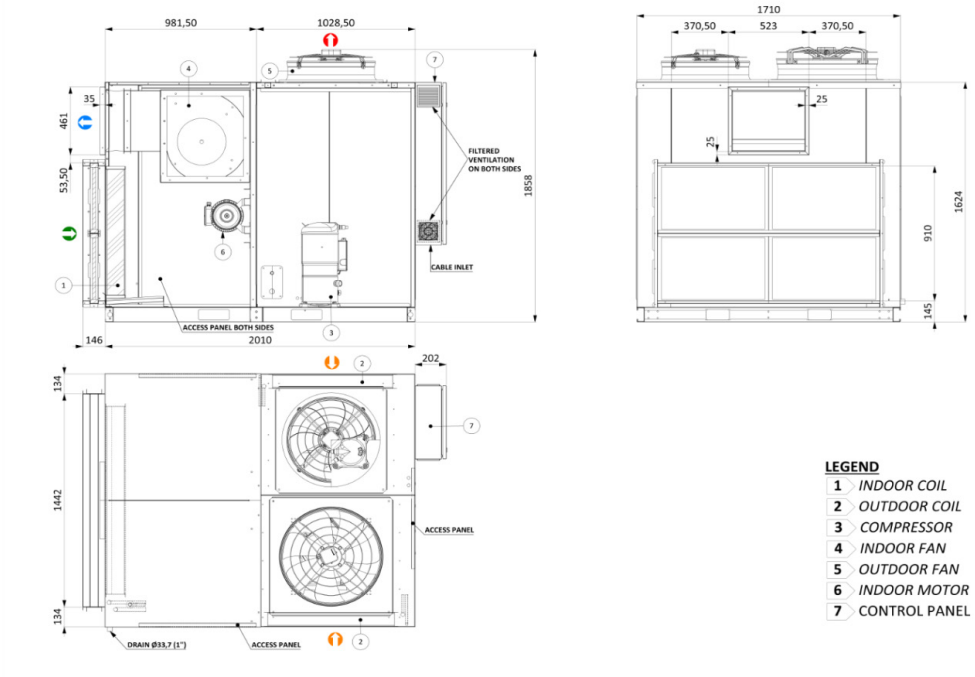


DIMENSIONS (mm)	MODELS	
	URTT-037	URTT-047
A	467	527
B	410	462
C	756	829
D	171,5	75
E	930	981,5
F	930	1028,5
G	35	25
H	1524	1574
Hmax	1780	1820
J	127	154
K	970	1186
L	1860	2010
W	1300	1490

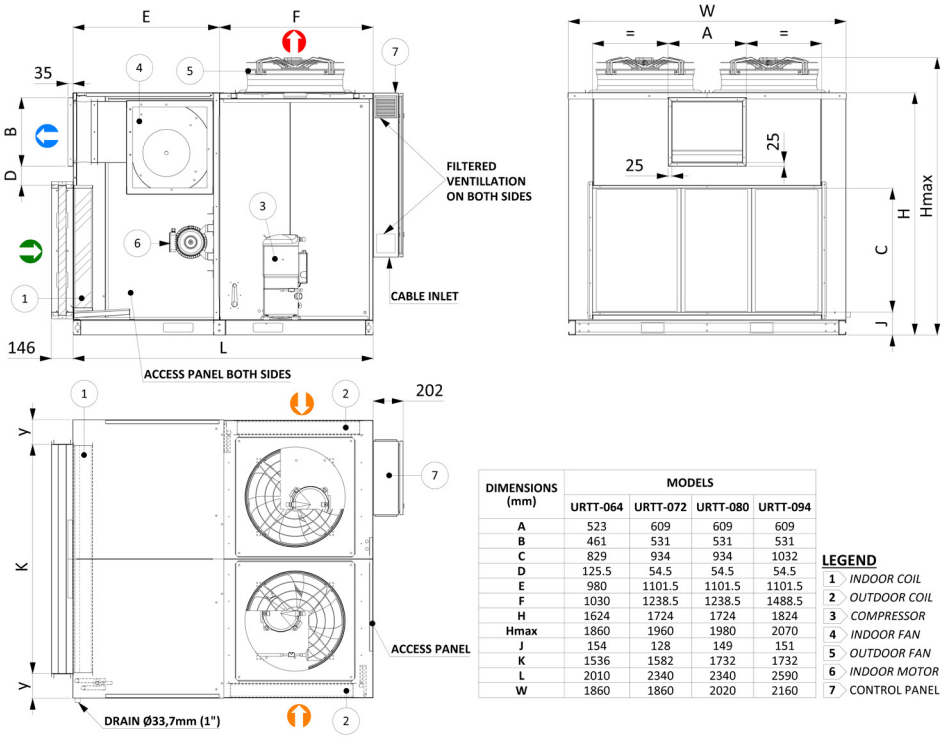
LEGEND

1. INDOOR COIL
2. OUTDOOR COIL
3. COMPRESSOR
4. INDOOR FAN
5. OUTDOOR FAN
6. INDOOR MOTOR
7. CONTROL PANEL

12.3. UNIT DIMENSION DATA MODELS [054]



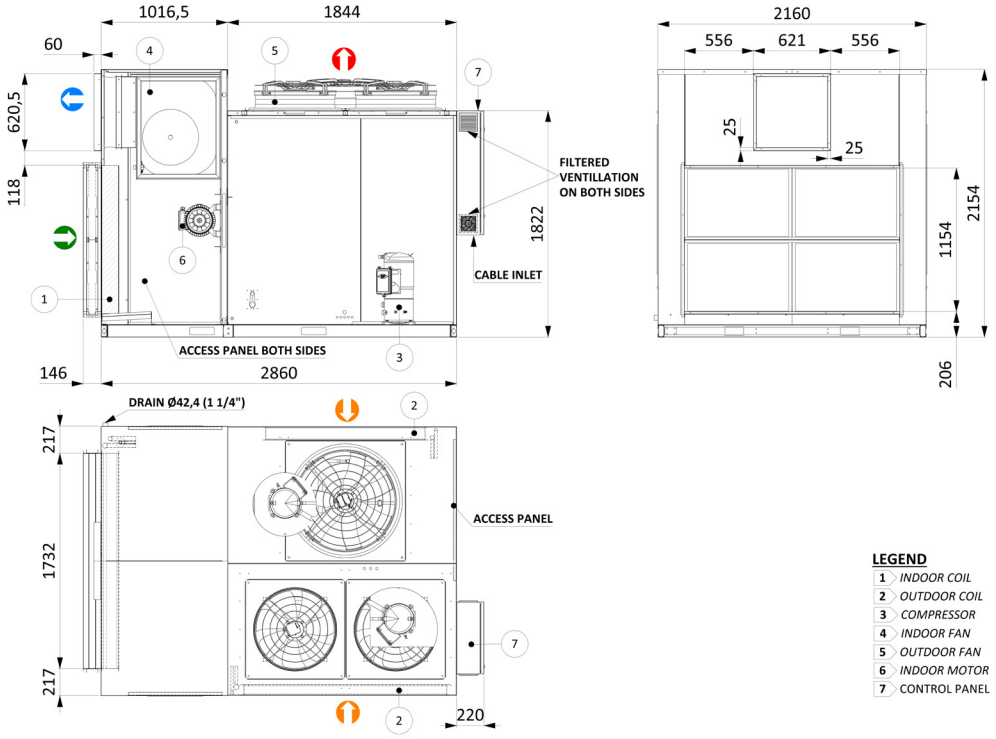
12.4. UNIT DIMENSION DATA MODELS [064-072-080-094]



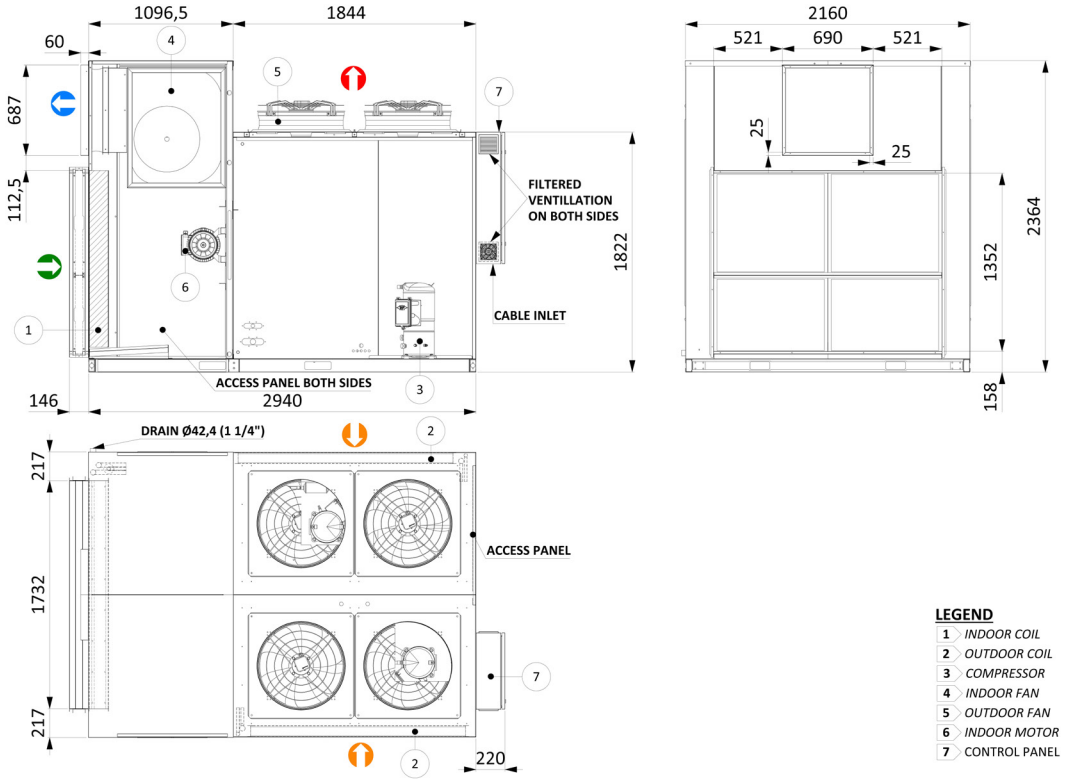
DIMENSIONS (mm)	MODELS			
	URTT-064	URTT-072	URTT-080	URTT-094
A	523	609	609	609
B	461	531	531	531
C	829	934	934	1032
D	125.5	54.5	54.5	54.5
E	980	1101.5	1101.5	1101.5
F	1030	1238.5	1238.5	1488.5
H	1624	1724	1724	1824
Hmax	1860	1960	1980	2070
J	154	128	149	151
K	1536	1582	1732	1732
L	2010	2340	2340	2590
W	1860	1860	2020	2160

LEGEND
1 INDOOR COIL
2 OUTDOOR COIL
3 COMPRESSOR
4 INDOOR FAN
5 OUTDOOR FAN
6 INDOOR MOTOR
7 CONTROL PANEL

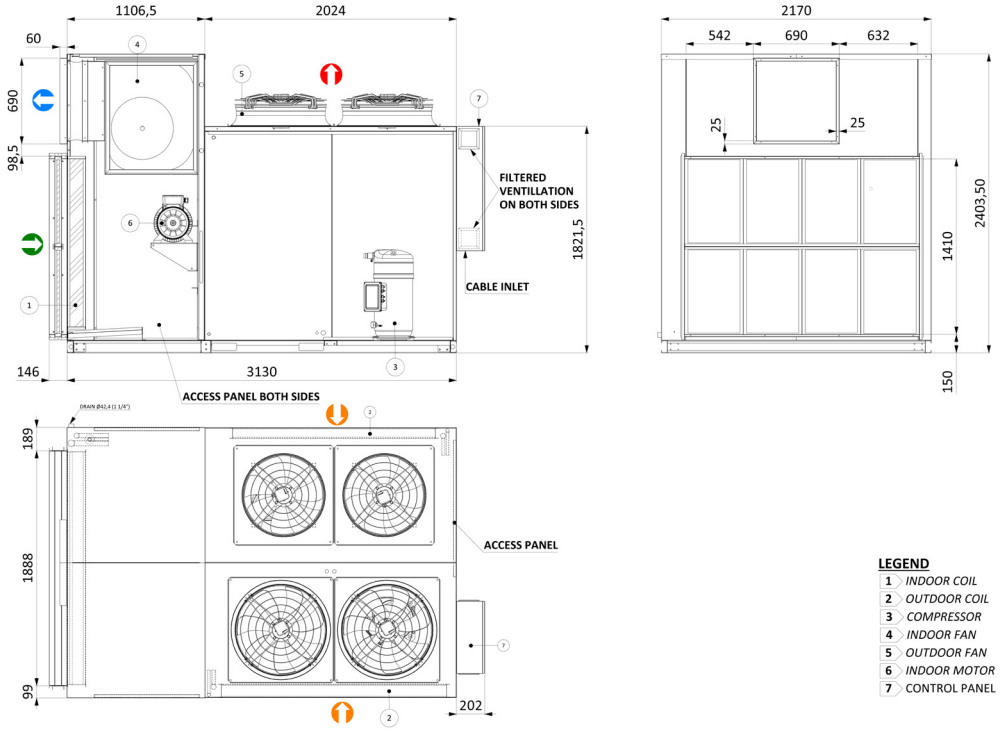
12.5. UNIT DIMENSION DATA MODELS [108]



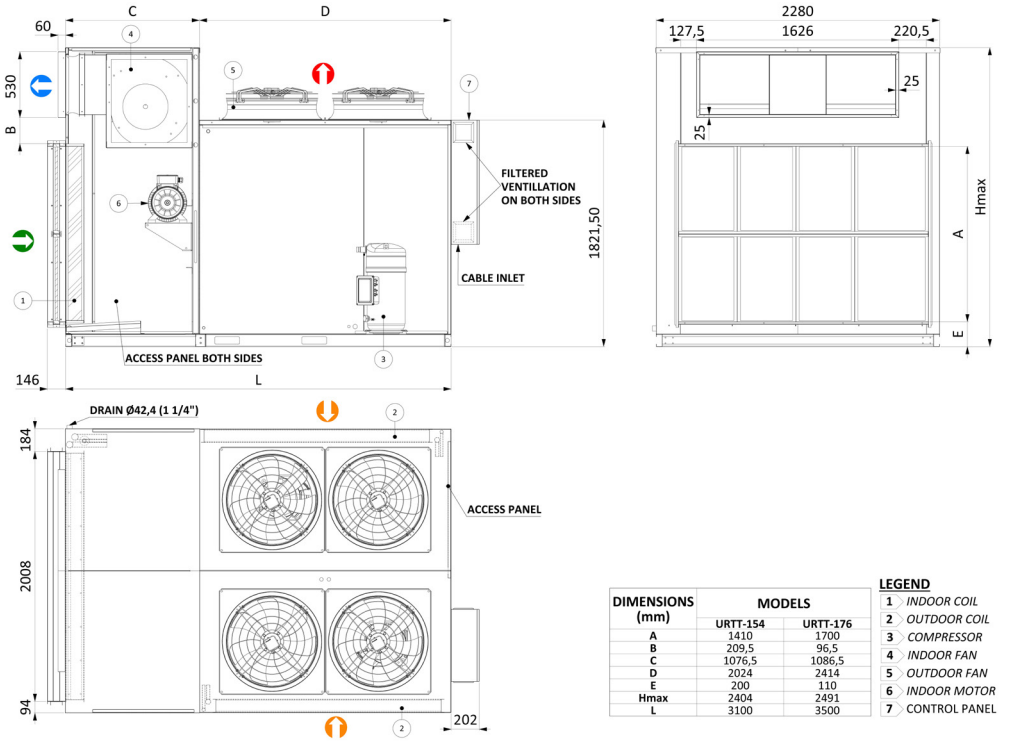
12.6. UNIT DIMENSION DATA MODELS [122]



12.7. UNIT DIMENSION DATA MODELS [138]



12.8. UNIT DIMENSION DATA MODELS [154-176]

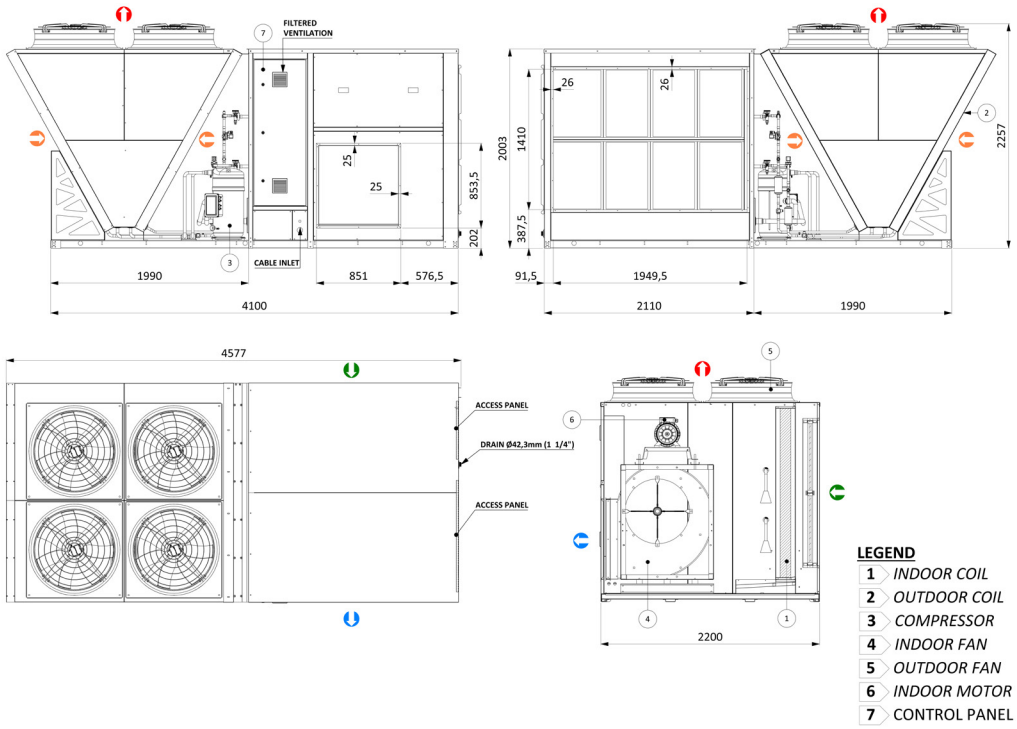


DIMENSIONS (mm)	MODELS	
	URTT-154	URTT-176
A	1410	1700
B	209,5	96,5
C	1076,5	1086,5
D	2024	2414
E	200	110
Hmax	2404	2491
L	3100	3500

LEGEND

1 INDOOR COIL
2 OUTDOOR COIL
3 COMPRESSOR
4 INDOOR FAN
5 OUTDOOR FAN
6 INDOOR MOTOR
7 CONTROL PANEL

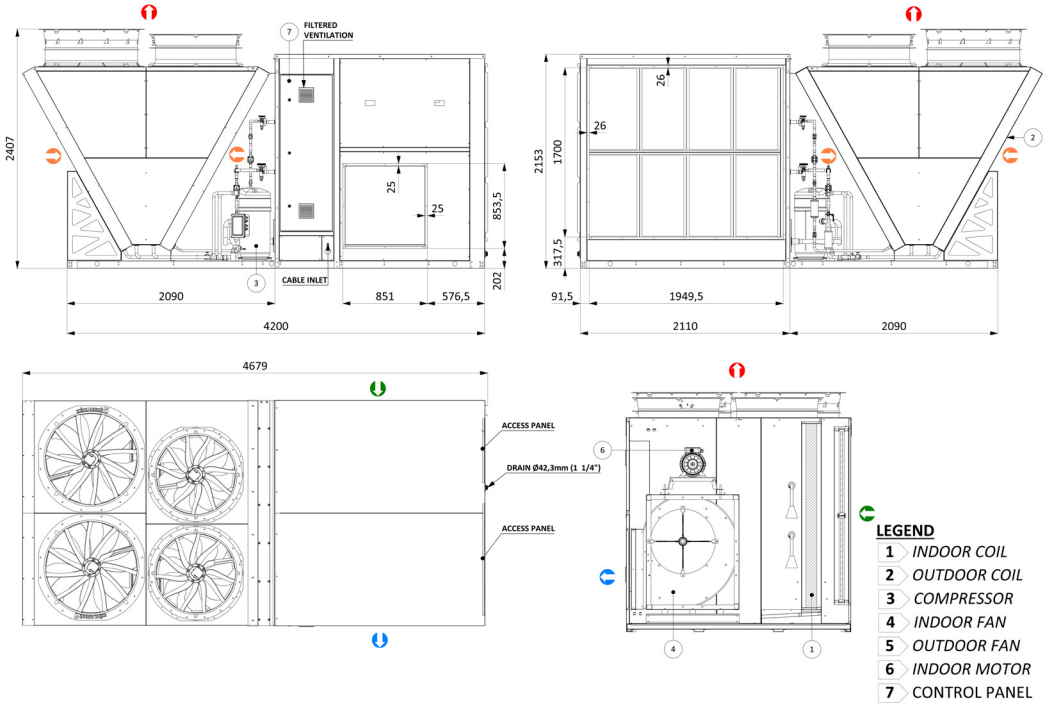
12.9. UNIT DIMENSION DATA MODELS [155]



LEGEND

1. *INDOOR COIL*
2. *OUTDOOR COIL*
3. *COMPRESSOR*
4. *INDOOR FAN*
5. *OUTDOOR FAN*
6. *INDOOR MOTOR*
7. CONTROL PANEL

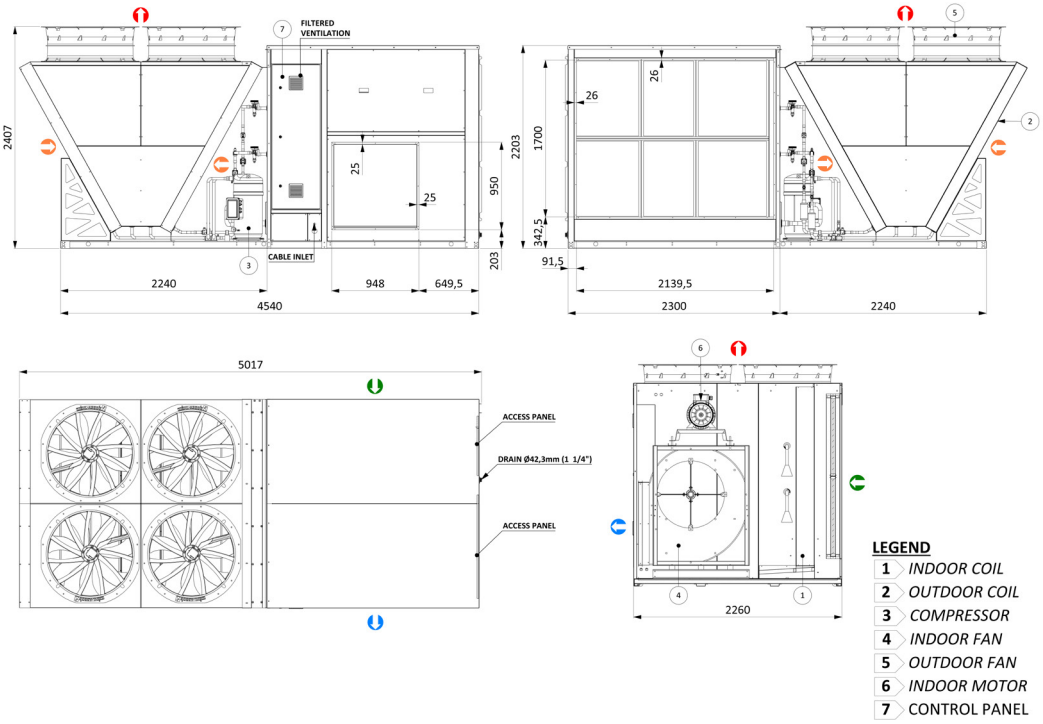
12.10. UNIT DIMENSION DATA MODELS [179]



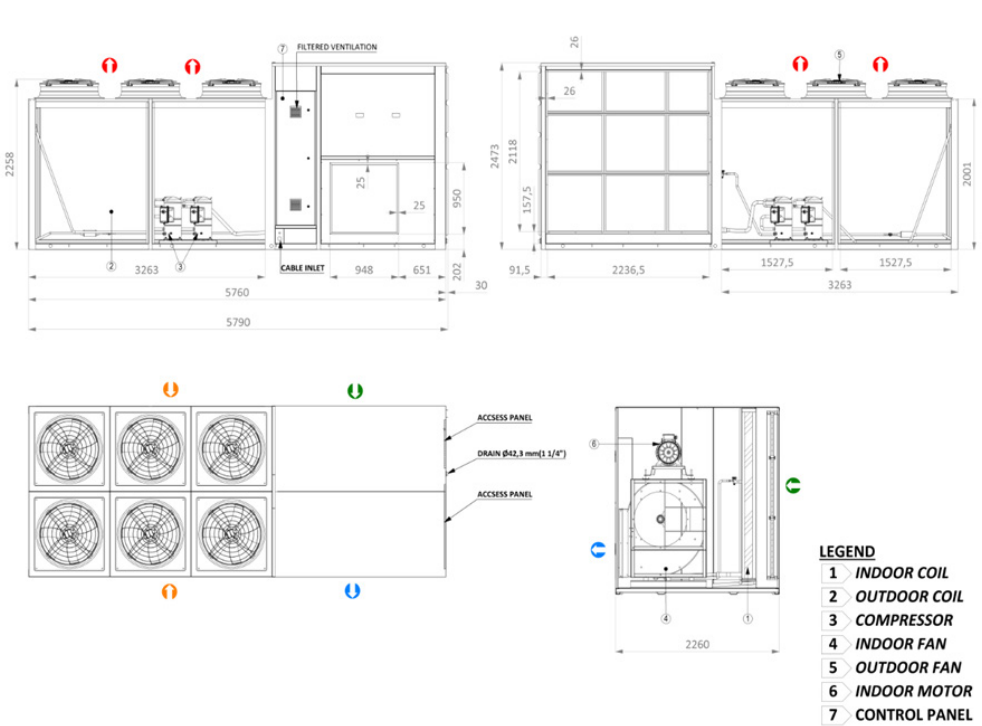
LEGEND

1. *INDOOR COIL*
2. *OUTDOOR COIL*
3. *COMPRESSOR*
4. *INDOOR FAN*
5. *OUTDOOR FAN*
6. *INDOOR MOTOR*
7. CONTROL PANEL

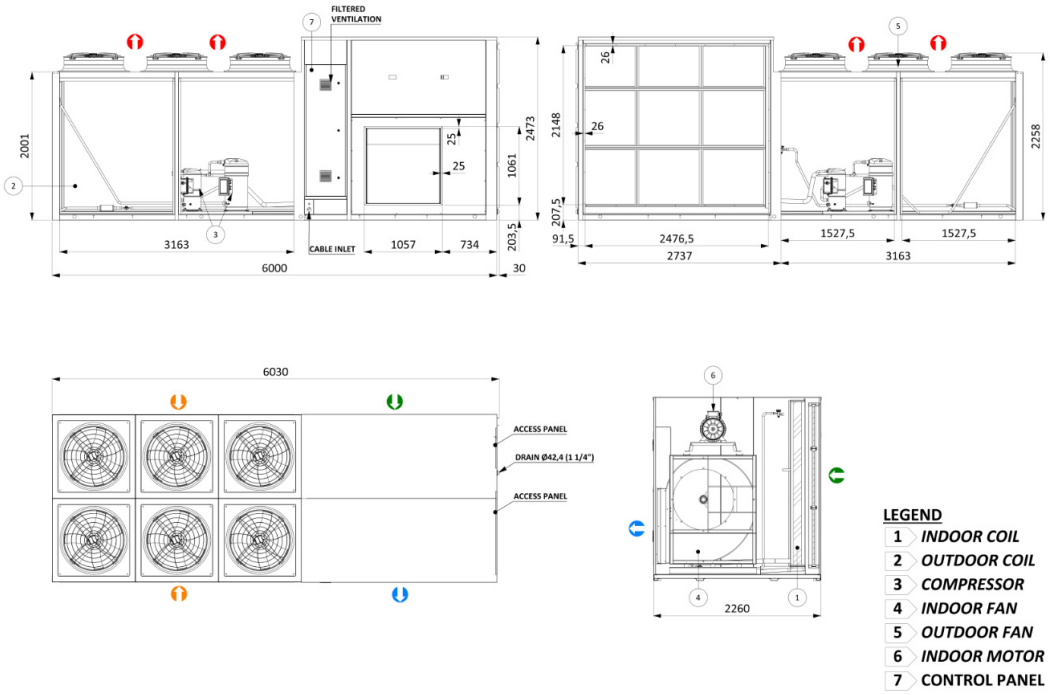
12.11. UNIT DIMENSION DATA MODELS [204]



12.12. UNIT DIMENSION DATA MODELS [244]



12.13. UNIT DIMENSION DATA MODELS [276]



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