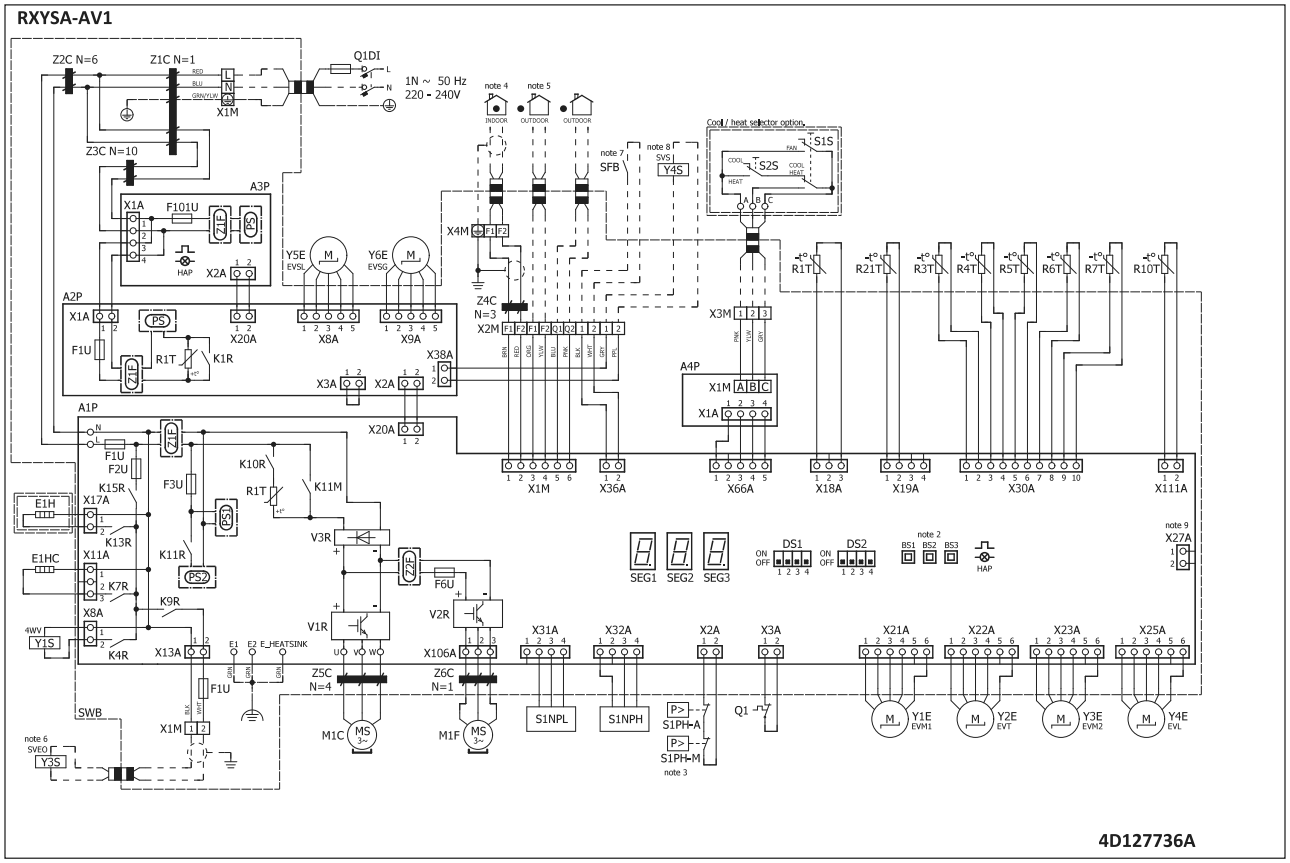
10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase



10 Wiring diagrams

10 - 2 Notes & Legend

RXYSA-AV1

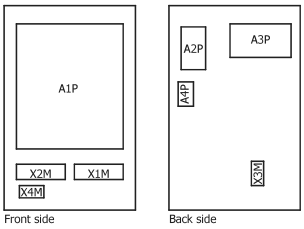
NOTES to go through before starting the unit

1. Symbols :

X1M	: Main terminal		: Option
— — — —	: Earth wiring		: Wiring depending on model
15	: Wire number 15		: Not mounted in switch box
– – – – – –	: Field wire		: PCB
	: Field cable		
	: Screened conductor		
①	: Several wiring possibilities		

2. Refer to the installation or service manual on how to use BS1 ~ BS3 push buttons and DS1-1 ~ DS1-2 DIP switches.
3. Do not operate the unit by short-circuiting protection device S1PH. S1PH-A automatically resets after high pressure has been exceeded, S1PH-M has to be manually reset after high pressure has been exceeded.
4. Refer to the installation manual for indoor-outdoor transmission F1-F2 wiring.
5. When using the central control system, connect outdoor-outdoor transmission F1-F2.
6. The capacity of the contact is 220~240V AC - 0,5A (Rush current needs 3A or less).
7. Use dry contact for micro-current (1 mA or less 12V DC).
8. Digital output: max 40V DC - 0,025A. Refer to installation manual for how to use this output.
9. For X27A refer to the installation manual of the option.

POSITION IN SWITCH BOX



LEGEND

Translation can be found in the installation manual.

Part n°		Description
A1P		main PCB
A2P		sub PCB
A3P		back up PCB
A4P		cool / heat selector PCB
BS* (A1P)		push button switch
DS* (A1P)		dipswitch
E1H	*	bottom plate heater
E1HC		crank case heater
F1U (A1P)		fuse M 56 A 250 V
F1U (A2P)		fuse T 3.15 A 250 V
F1U		fuse T 1.0 A 250 V
F2U (A1P)		fuse T 6.3 A 250 V
F3U (A1P)		fuse T 6.3 A 250 V
F6U (A1P)		fuse T 5 A 250 V
F101U (A3P)		fuse T 2.0 A 250 V
HAP (A1P,A3P)		running LED (service monitor-green)
K*M (A1P)		contactor on PCB
K*R (A*P)		relay on PCB
M1C		motor (compressor)
M1F		motor (fan)
PS* (A*P)		switching power supply
Q1		overload switch
Q1DI	#	earth leakage circuit breaker
R1T		thermistor (ambient)
R3T		thermistor (suction)
R4T		thermistor (liquid)
R5T		thermistor (subcool)
R6T		thermistor (superheat)

Part n°		Description
R7T		thermistor (heat exchanger)
R10T		thermistor (fin)
R21T		thermistor (discharge)
R*T (A*P)		PTC thermistor
S1NPH		high pressure sensor
S1NPL		low pressure sensor
S1PH*		high pressure switch
S1S	*	air control switch
S2S	*	cool / heat switch
SEG* (A1P)		7-segment display
SFB	#	mechanical ventilation error input
V1R, V2R (A1P)		IGBT power module
V3R (A1P)		diode module
X*A		PCB connector
X*M		terminal strip
X*Y		connector
Y1E		electronic exp. valve (main - EVM1)
Y2E		electronic exp. valve (EVT)
Y3E		electronic exp. valve (main - EVM2)
Y4E		electronic exp. valve (EVL)
Y5E		electronic exp. valve (EVSL)
Y6E		electronic exp. valve (EVSG)
Y1S		solenoid valve (4-way valve)
Y3S	#	error operation output (SVEO)
Y4S	#	leak sensor output (SVS)
Z*C		noise filter (ferrite core)
Z*F (A*P)		noise filter

* : optional # : field supply

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