

Job Name:

System Reference:

Date:



INDOOR Unit.....ERSF-NM6E

OUTDOOR Unit.....WUZ-SA48NMZ

INDOOR UNIT FEATURES

- Automatic Air Vent: As air builds up in a hydronic system over time, that excess air pressures is automatically purged to maintain optimal performance.
- Flow Sensor: The flow sensor maintains water pressure by monitoring the water flow rate and automatically adjusting the inverter output for maximum efficiency.
- Flow Temperature Controller: Control board with multiple inputs/outputs to control 3rd party components
- Magnetic Filter: The magnetic filter catches large debris, sediment, and iron particles before they can impact the plate heat exchanger, pump, or other piping, supporting system longevity and easier maintenance.
- Touch Screen Controller: The Hydrobox comes with a touch screen controller on the front panel
- All-in-one Hydrobox: Designed with front-access serviceability, the All-in-one Hydrobox includes the pumps, expansion vessel, magnetic filter, booster heater, and plate heat exchanger.

OUTDOOR UNIT FEATURES

- 3-in-1: Hydronic heating,cooling, and domestic hot water
- Auto Changeover: The unit will automatically switch between heating and cooling modes to maintain the set point.
- Boiler Integration : Boiler Integration enables the system to automatically switch from electric heat pump to boiler operation for consistent comfort. The system can also be set to switch based on optimal energy efficiency or ambient temperature.
- High-flow Temperature Performance: Ecodan is capable of delivering hot water up to 158°F outlet water even in low ambient temperatures.
- Hyper Heating: 100% heating capacity down to 5° F with guaranteed heating down to -22° F.
- Quiet Operation (Ecodan): The outdoor unit features ultra-quiet operation as low as 41 - 45 db(A) due to an anti-vibration design with insulation around the compressor. The unit also offers a three-stage low-noise mode.
- Refrigerant Split System: A split system with R32 refrigerant

SPECIFICATIONS: ERSF-NM6E & WUZ-SA48NMZ

Heating ¹	Heating Water Temperature Range [Minimum / Maximum] ²	deg F / deg F	77 / 158
	Maximum Capacity at A45W95	Btu/h	49,130
	Maximum Power Input at A45W95	W	4,034
	COP at A45W95		3.57
	Maximum Capacity at A35W95	Btu/h	49,820
	Maximum Power Input at A35W95	W	4,899
	COP at A35W95		2.98
	Maximum Capacity at A5W95	Btu/h	48,450
	Maximum Power Input at A5W95	W	6,636
	COP at A5W95		2.14
	Maximum Capacity at A5W110	Btu/h	47,770
	Maximum Power Input at A5W110	W	7,035
	COP at A5W110		1.99
	Maximum Capacity at A-4W95	Btu/h	40,263
	Maximum Power Input at A-4W95	W	5,784
COP at A-4W95		2.04	
Maximum Capacity at A-22W95	Btu/h	33,438	
Maximum Power Input at A-22W95	W	5,052	
COP at A-22W95		1.94	
Cooling ¹	Cooling Water Temperature Range [Minimum / Maximum] ²	deg F / deg F	41 / 77
	Maximum Capacity at A95W45	Btu/h	42,650
	Maximum Power Input at A95W45	W	4,808
	EER at A95W45		8.87
	Maximum Capacity at A95W65	Btu/h	51,182
	Maximum Power Input at A95W65	W	4,249
	EER at A95W65		12.05
Electrical	Voltage, Phase, Frequency	V AC / V AC , ϕ , Hz	208 / 230 , 1 , 60
	Guaranteed Voltage Range	V AC - V AC	198 - 253
	Voltage: Indoor - Outdoor, S1-S2	V AC	208/230
	Voltage: Indoor - Outdoor, S2-S3	V DC	28
	Short-circuit Current Rating [SCCR]	kA	5
	Recommended Fuse/Breaker Size, ODU + hydrobox (without booster heater)	A	40
	Recommended Fuse/Breaker Size, booster heater (requires separate circuit)	A	35
	Recommended Wire Size [Indoor - Outdoor]	AWG	16
Minimum Wire Size (Outdoor power)	AWG	9	
Hydrobox	SPL (Sound Pressure Level)		34
	PWL (Sound Power Level)		48
	External Finish		Galvanized Steel , 6.2PB 9/0.9
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	20-55/64 x 14-11/64 x 31-1/2 [530 x 360 x 800]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	23-5/8 x 39 x 22-1/16 [600 x 990 x 560]
	Unit Weight	lbs [kg]	93 [42]
	Unit Weight (Water full)	lbs [kg]	106 [48]
	Package Weight	lbs [kg]	124 [56]
	Hydrobox water circuit volume ³	gal [L]	1.40 [5.30]
	Booster Heater Equipped		Yes
	Booster Heater Capacity [208V / 230V]	kW / kW	4.90 / 6
	Water Flow Rate [Minimum / Maximum]	GPM / GPM [L/min / L/min]	2.60 / 9 [10 / 34.40]
	Plate-Plate Heat Exchanger Model Number		MWA1-54AP2
	Expansion Vessel Equipped		Yes
	Expansion Vessel Net Volume	gal [L]	3.20 [12]
	Expansion Vessel Charge Pressure	psi [MPa]	14.50 [0.10]
	Water Connection (Return from the water circuit)		NPT1 (Female)
	Water Connection (Supply to the water circuit)		NPT1 (Female)
	Pressure Relief Valve Pipe Connection		NPT1/2 (Female)
	Drain Pipe Size O.D.	inch [mm]	13/16 [20]
IP Rating		IPX0	
Maximum Pressure of Refrigerant	psi [MPa]	708 [4.88]	
Maximum Pressure of Water	psi [MPa]	43.50 [0.30]	
Set Pressure of Pressure Relief Valve	psi [MPa]	43.50 [0.30]	
IDU Operating Temp. Range	Flow Temp Heating Set Point Range [Minimum / Maximum]	deg F / deg F	68 / 158
	Flow Temp Cooling Set Point Range [Minimum / Maximum]	deg F / deg F	41 / 77
	Guaranteed Ambient Temp DB [Minimum / Maximum]	deg F / deg F	32 / 95
	Guaranteed Maximum Relative Humidity		78%RH (at 81F) or less

NOTES

¹A=Ambient temperature (°F) W= Leaving water temperature (°F) e.g. A45W95 = Ambient temperature 45 °F, Leaving water temperature 95°F

²Refer to the Technical & Service Manual for the minimum/maximum leaving water temperature since those are dependent on the ambient temperature

³Excluding the expansion vessel and piping to expansion vessel

SPECIFICATIONS: ERSF-NM6E & WUZ-SA48NMZ

Outdoor Unit	MCA	A	37
	MOCP	A	61
	Fan Motor Output	HP	0.27
	Airflow Rate Cooling	CFM	1,907
	Airflow Rate Heating	CFM	2,119
	Defrost Method		Reverse Cycle
	Coating on Heat Exchanger (Bluefin, Sea Coast)		Yes , No
	Heat Exchanger Tube		Copper
	Sound Pressure Level at A7W55	dB (A)	45
	Compressor Type		Scroll
	Compressor Model		DVK36FEGMT
	Compressor Oil [Type // Charge]	// oz	FW68CA // 30
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	41-11/32 x 18-29/32 x 40-15/16 [1,050 x 480 x 1,040]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	44-7/8 x 23-15/64 x 47-41/64 [1,140 x 590 x 1,210]
	Unit Weight	lbs [kg]	252 [114]
	Package Weight	lbs [kg]	292 [132]
ODU Operating Temp. Range	Cooling Intake Air Temp [Minimum / Maximum] ²	F / F	50 / 114
	Heating Intake Air Temp [Minimum / Maximum]	F / F	-22 / 75
	Heating [DHW Mode] Intake Air Temp [Minimum / Maximum]	F / F	-22 / 107
Refrigerant	Type		R32
	Pre-Charged Refrigerant Amount	lbs , oz	3 , 15.5
	Maximum Pre-charged Piping Length [Reversible System]	ft [m]	50 [15]
	Additional Refrigerant Charge Per Additional Liquid Piping Length [Reversible System]	oz/ft [g/m]	0.20 [18.40]
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	5/8 [15.88]
	Liquid Pipe Size O.D. [Flared]	inch [mm]	1/4 [6.35]
	Maximum Piping Length [Reversible System]	ft [m]	100 [30]
	Maximum Piping Length [Heating Only System]	ft [m]	164 [50]
	Maximum Height Difference	ft [m]	100 [30]
	Maximum Height Difference, ODU above IDU	ft [m]	100 [30]
	Maximum Height Difference, ODU below IDU	ft [m]	100 [30]
	Maximum Number of Bends		10
NOTES ¹ A=Ambient temperature (°F) W= Leaving water temperature (°F) e.g. A45W95 = Ambient temperature 45 °F, Leaving water temperature 95°F ² Refer to the Technical & Service Manual for the minimum/maximum leaving water temperature since those are dependent on the ambient temperature ³ Excluding the expansion vessel and piping to expansion vessel			

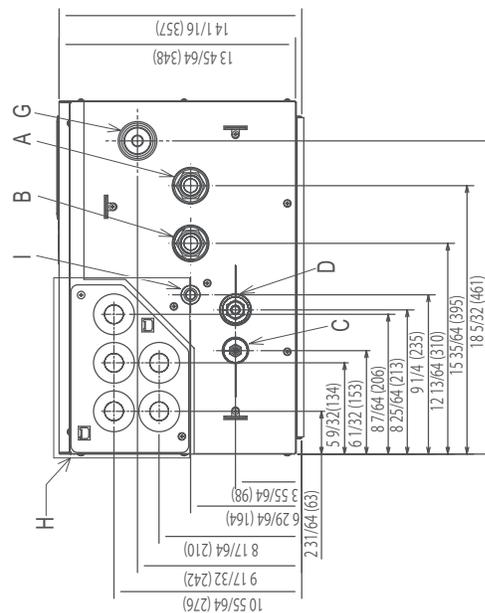
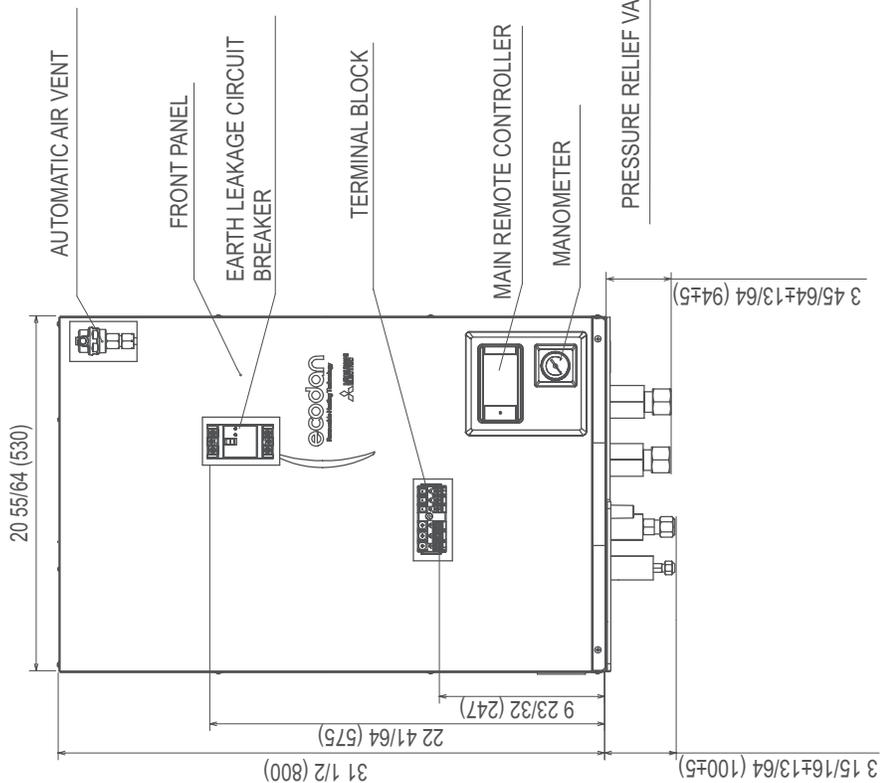
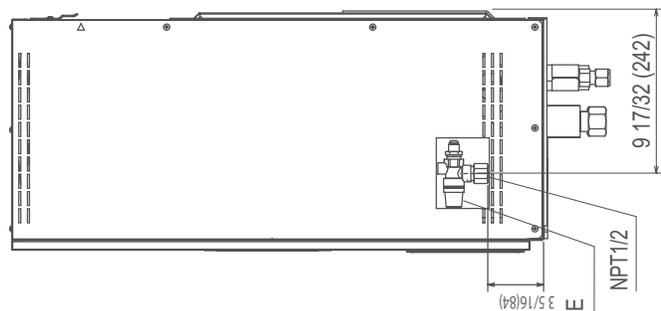
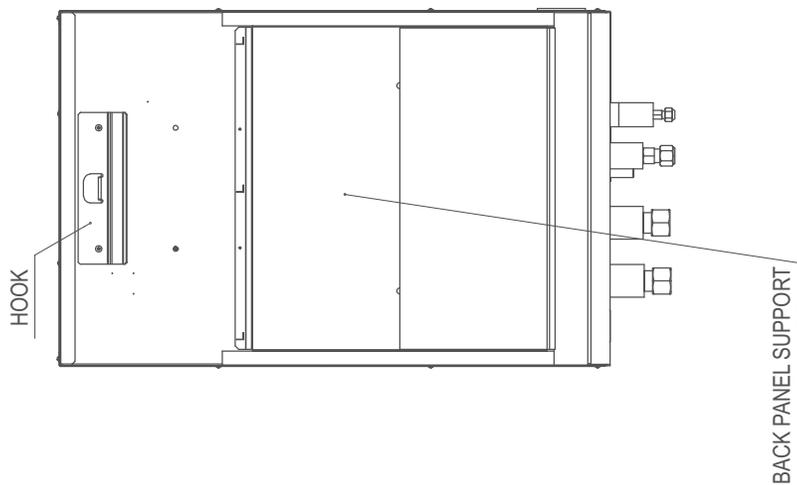
INDOOR UNIT ACCESSORIES: ERSF-NM6E

Indirect DHW Tank	85 Gallon Indirect DHW tank	ME-85-XHO
	60 Gallon Indirect DHW tank (with heater)	ME-60-HO-H
	85 Gallon Indirect DHW tank (with heater)	ME-85-XHO-H
	60 Gallon Indirect DHW tank	ME-60-HO
Lineset	1/4 x 5/8 Lineset Twin-Tube Insulation - 65 feet	MLS145812T-65
	1/4 x 5/8 Lineset Twin-Tube Insulation - 30 feet	MLS145812T-30
	1/4 x 5/8 Lineset Twin-Tube Insulation - 15 feet	MLS145812T-15
	1/4 x 5/8 Lineset Twin-Tube Insulation - 50 feet	MLS145812T-50
	1/4 x 5/8 Lineset Twin-Tube Insulation - 100 feet	MLS145812T-100
Remote Sensor	Wall Mounted Remote Temperature Sensor	PAC-SE41TS-E
	Flush Mount Remote Temperature Sensor for SEZ SLZ SVZ and all P-Series models	PAC-USSEN002-FM-1
Thermistor	100ft (30m) THWB1 for boiler	PAC-TH012HTL-U
	100 ft (30m) THW5B for DHW tank	PAC-TH011TKL2-U
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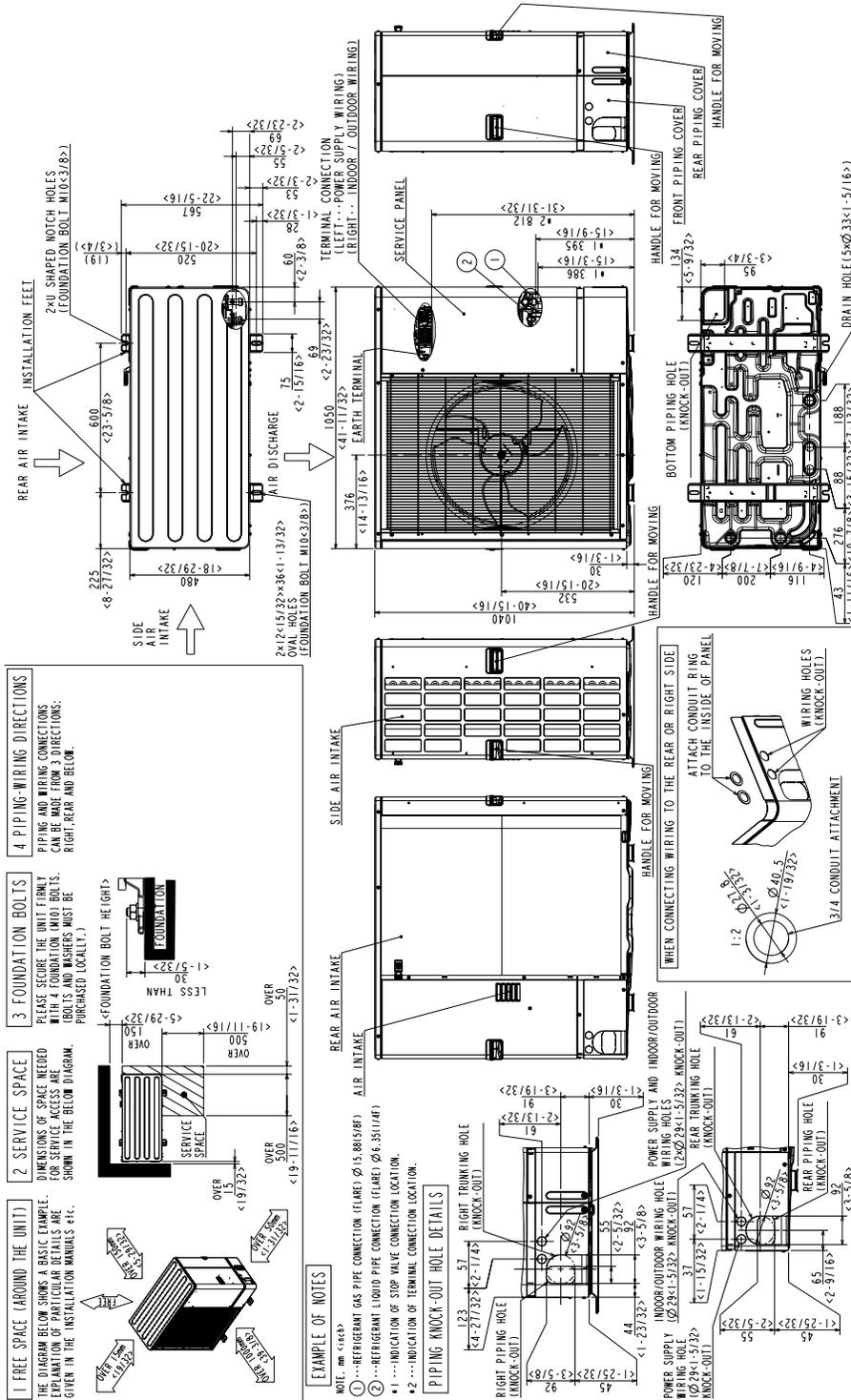
OUTDOOR UNIT ACCESSORIES: WUZ-SA48NMZ

Air Outlet Guide	Air Outlet Guide 1 Piece	PAC-SH96SG-E
	Attachment for Air Outlet Guide	PAC-SJ82AT-E
Control/Service Tool	ControlService Tool	PAC-SK52ST
Mini-Split Wire	14 Gauge 4 wire Armored MiniSplit Cable50 ft roll	SW144-50
	14 Gauge 4 wire MiniSplit Cable250 ft roll	S144-250
	14 Gauge 4 wire MiniSplit Cable50 ft roll	S144-50
	14 Gauge 4 wire Armored MiniSplit Cable250 ft roll	SW144-250
Mounting Pad	Condensing Unit Mounting Pad 24 x 42 x 3	ULTRILITE2
Stand	18 Single Fan Stand	QSMS1801M
	Outdoor Unit Stand 12 High	QSMS1201M
	24 Single Fan Stand	QSMS2401M
Wind Baffle	Front Wind Baffle	WB-PA3
NOTES		

INDOOR UNIT DIMENSIONS: ERSF-NM6E



OUTDOOR UNIT DIMENSIONS: WUZ-SA48NMZ



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