

Job Name:

System Reference:

Date:



INDOOR Unit ... ERSF-NM6E

OUTDOOR Unit ... WUZ-SA36NMZ

INDOOR UNIT FEATURES

- All-in-one Hydrobox: The heart of the Ecodan system, the All-in-one Hydrobox includes the key water circuit 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.
- Flow Sensor: The flow sensor monitors the water flow rate and maintains water pressure for optimized comfort and efficiency.
- Flow Temperature Controller: The Flow Temperature Controller is the control board inside the Hydrobox. It manages the system, including the indoor and outdoor units and the water circuit based on ambient and flow temperatures. It can be integrated or interlocked with external controllers for greater application flexibility.
- Automatic Air Vent: As air builds up in a hydronic system over time, the excess air pressure is automatically released to maintain optimal performance.
- Touch Screen Controller: The Hydrobox comes with a touch screen controller on the front panel for system control.

OUTDOOR UNIT FEATURES

- 3-in-1: Hydronic heating, cooling, and domestic hot water
- Refrigerant Split System: A split system with R32 refrigerant
- Hyper Heating: 100% heating capacity down to 5° F with guaranteed heating down to -22° F.
- 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 outdoor temperature.
- High-flow Temperature Performance: Ecodan is capable of delivering hot water up to 158° F even in low outdoor temperatures.
- Quiet Operation (Ecodan): The outdoor unit features ultra-quiet operation due to an anti-vibration design and offers a three-stage low-noise mode.

SPECIFICATIONS: ERSF-NM6E & WUZ-SA36NMZ

Heating ¹	Delivered Water Temperature Range - Heating Max.	deg F	77 / 158
	Delivered Water Temperature Range - Heating Min.		
	Capacity at A7W35	Btu/h	37,190
	Power Input at A7W35	W	2,300
	COP at A7W35		4.74
	Capacity at A2W35	Btu/h	42,310
	Power Input at A2W35	W	3,839
	COP at A2W35		3.23
	Capacity at A-15W35	Btu/h	36,510
	Power Input at A-15W35	W	4,213
	COP at A-15W35		2.54
	Capacity at A-15W43	Btu/h	35,150
	Power Input at A-15W43	W	5,337
	COP at A-15W43		1.93
	Capacity at A-25W35	Btu/h	32,074
	Power Input at A-25W35	W	4,312
	COP at A-25W35		2.18
	Capacity at A-30W35	Btu/h	27,297
	Power Input at A-30W35	W	3,941
	COP at A-30W35		2.03
Cooling ¹	Delivered Water Temperature Range - Cooling Max.	deg F	41 / 77
	Delivered Water Temperature Range - Cooling Min.		
	Capacity at A35W7	Btu/h	31,392
	Power Input at A35W7	W	3,108
	EER at A35W7		10.1
	Capacity at A35W18	Btu/h	40,946
	Power Input at A35W18	W	2,885
Electrical	EER at A35W18		14.19
	FrequencyRated Voltage (Min)PhaseRated Voltage (Max)	V AC / V AC , ϕ , Hz	208 / 230 , 1 , 60
	Guaranteed Voltage (Min)Guaranteed Voltage (Max)	V AC	198 - 253
	Voltage: Indoor - Outdoor, S1-S2	V AC	208/230
	Voltage: Indoor - Outdoor, S2-S3 in case non-high-speed communication	V DC	28
	Short-circuit Current Rating (SCCR)	kA	5
	Recommended Fuse/Breaker Size of System (ODU + IDU)	A	35
	Booster Heater Breaker	A	35
	Recommended Wire Size (Indoor-Outdoor)	AWG	16
Hydrobox	Minimum Wire Size (Outdoor power)	AWG	11
	IDU SPL (Sound Pressure Level)		34
	IDU PWL (Sound Power Level)		48
	External Finish (Munsell No. in case painting)		Galvanized Steel , 6.2PB 9/0.9
	External Finish (Galvanized Steel or Not)		
	IDU Unit Dimension HIDU Unit Dimension DIDU Unit Dimension W	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]
	IDU Package Dimension DIDU Package Dimension HIDU Package Dimension W	inch x inch x inch [mm x mm x mm]	23-5/8 x 39 x 22-1/16 [600 x 990 x 560]
	IDU Unit Weight	lbs [kg]	93 [42]
	IDU Unit Weight (Water full)	lbs [kg]	106 [48]
	IDU Package Weight	lbs [kg]	124 [56]
	Water Volume of Heating Circuit in the Unit	gal [L]	1.40 [5.30]
	Booster Heater Equipped (Yes or No)		Yes
	Booster Heater Capacity at 208VBooster Heater Capacity at 230V	kW	4.90 / 6
	Water Flow Rate MinimumWater Flow Rate Maximum	GPM / GPM [L/min / L/min]	2.60 / 7.50 [10 / 28.60]
	Plate-Plate Heat Exchanger Model Number		MWA1-54AP2
	Expansion Vessel Equipped (Yes or No)		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 (Outer size)	inch [mm]	13/16 [20]

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

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Hydrobox	IP		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	Heating Set Point Range Minimum [Flow Temp.]	deg F	68 / 158
	Heating Set Point Range Maximum [Flow Temp.]		
	Cooling Set Point Range Minimum [Flow Temp.]	deg F	41 / 77
	Cooling Set Point Range Maximum [Flow Temp.]		
	Guaranteed Ambient Minimum Air Temp DB	deg F	32 / 95
	Guaranteed Ambient Maximum Air Humidity		78%RH (at 81F) or less
Outdoor Unit	ODU Minimum Circuit AMPacity (MCA)	A	32
	ODU Maximum Over Current Protection (MOCP) = MOP = Maximum Fuse	A	52
	ODU Fan Motor Output	HP	0.27
	ODU Airflow Rate at Cooling Rated (Max Fan Speed)	CFM	1,836
	ODU Airflow Rate at Heating Rated (Max Fan Speed)	CFM	2,189
	Defrost Method (Reverse cycle or On-defrost)		Reverse Cycle
	Sea Coast Protection (Yes or No)Blue Fin Coating (Yes or No)		Yes , No
	Heat Exchanger Tube (Copper or Aluminum)		Copper
	Sound Pressure Level at A7W55	dB (A)	45
	Compressor Type		Scroll
	Compressor Model		DVK28FEJMT
	Compressor Oil NameCompressor Oil Charge	// oz	FW68CA // 30
	ODU Unit Dimension WODU Unit Dimension HODU Unit Dimension D	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]
	ODU Package Dimension WODU Package Dimension HODU Package Dimension D	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]
	ODU Unit Weight	lbs [kg]	236 [107]
	ODU Package Weight	lbs [kg]	276 [125]
ODU Operating Temp. Range	Cooling Intake Maximum Air Temp DBCooling Intake Minimum Air Temp DB	°FDB	50 / 114
	Heating Intake Minimum Air Temp DBHeating Intake Maximum Air Temp DB	°FDB / F	-22 / 75
	Heating [DHW Mode] Intake Minimum Air Temp DBHeating [DHW Mode] Intake Maximum Air Temp DB	F	-22 / 107
Refrigerant	Refrigerant Type		R32
	Pre-charged Refrigerant Amount (ODU)	lbs , oz	3 , 15.5
	Maximum Pre-charged Piping Length [Reversible System]	ft [m]	50 [15]
	Additional Refrigerant Charge Per Additional Liquid Piping Length (6.35mm)[Reversible System] Additional Refrigerant Charge Per Additional Liquid Piping Length	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]	164 [50]
	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			

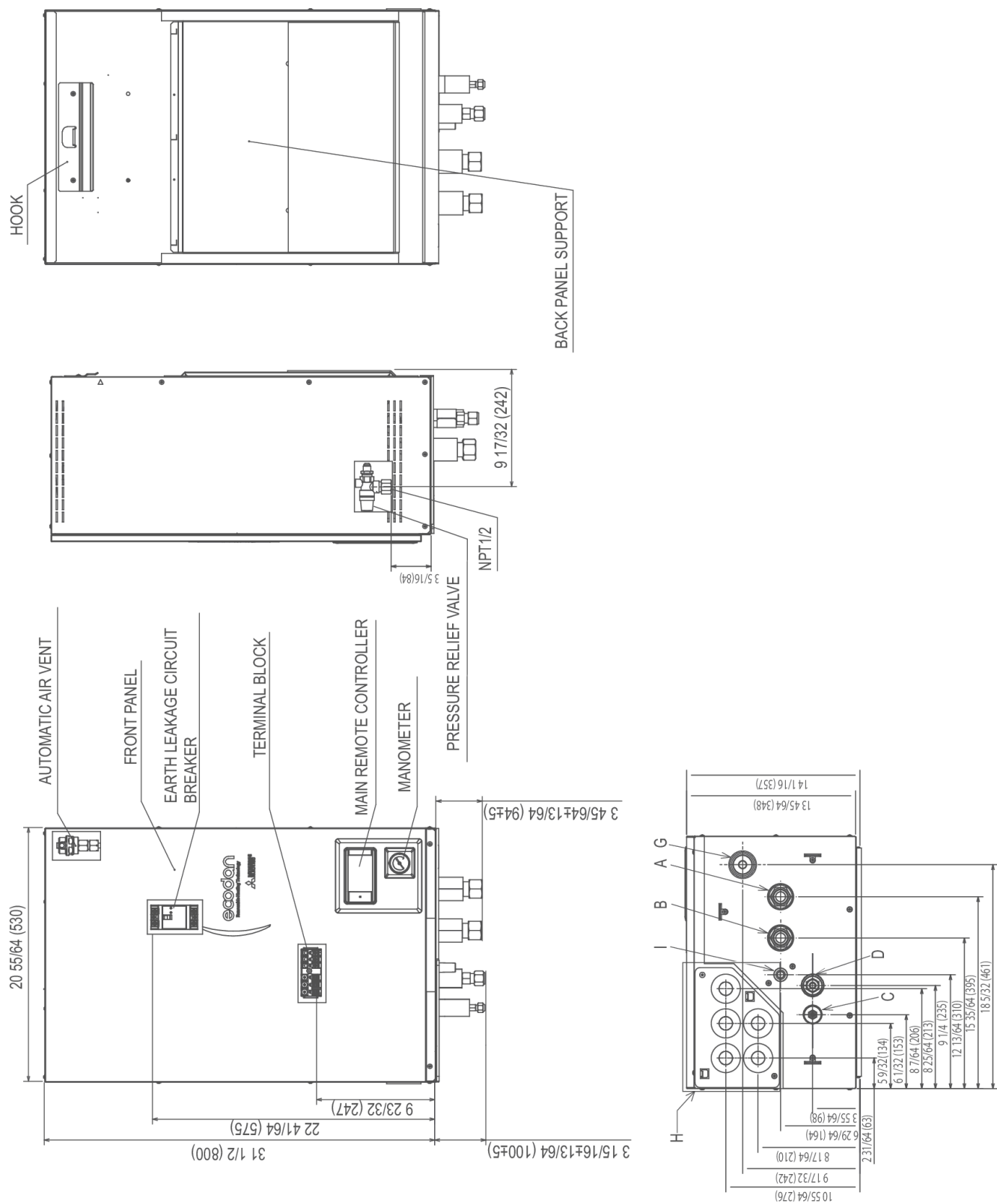
INDOOR UNIT ACCESSORIES: ERSF-NM6E

Indirect DHW Tank	85 Gallon Indirect DHW tank	☐	ME-85-XHO
	85 Gallon Indirect DHW tank (with heater)	☐	ME-85-XHO-H
	60 Gallon Indirect DHW tank	☐	ME-60-HO
	60 Gallon Indirect DHW tank (with heater)	☐	ME-60-HO-H
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 - 100 feet	☐	MLS145812T-100
	1/4 x 5/8 Lineset Twin-Tube Insulation - 50 feet	☐	MLS145812T-50
Remote Sensor	Wall Mount 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	100 ft (30m) THW5B for DHW tank	☐	PAC-TH011TKL2-U
	100ft (30m) THWB1 for boiler	☐	PAC-TH012HTL-U
Notes			

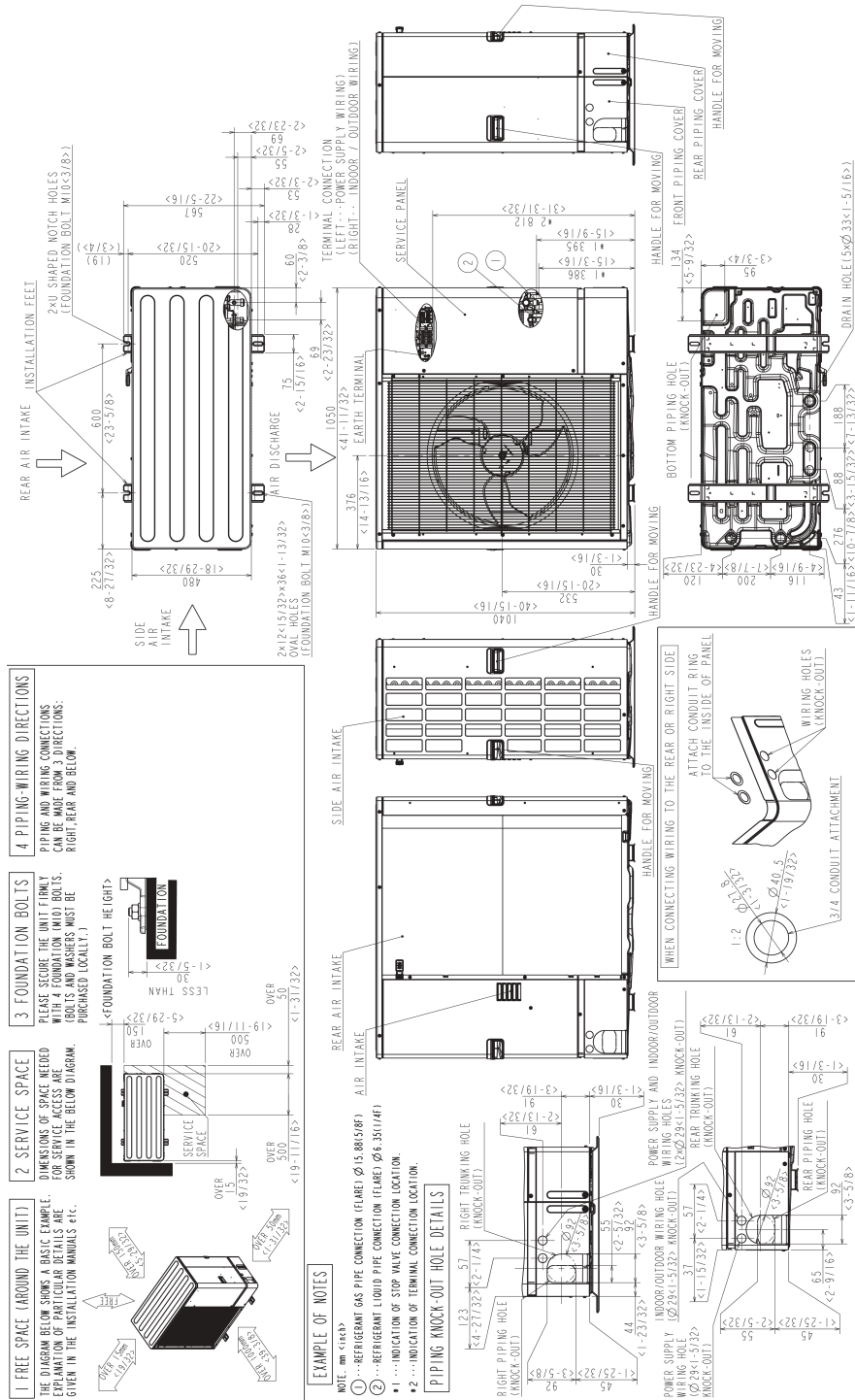
OUTDOOR UNIT ACCESSORIES: WUZ-SA36NMZ

Air Outlet Guide	Attachment for Air Outlet Guide	☐	PAC-SJ82AT-E
	Air Outlet Guide 1 Piece	☐	PAC-SH96SG-E
Control/Service Tool	ControlService Tool	☐	PAC-SK52ST
Mini-Split Wire	14 Gauge 4 wire MiniSplit Cable250 ft roll	☐	S144-250
	14 Gauge 4 wire Armored MiniSplit Cable50 ft roll	☐	SW144-50
	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	Outdoor Unit Stand 12 High	☐	QSMS1202M
	24 Dual Fan Stand	☐	QSMS2402M
	18 Dual Fan Stand	☐	QSMS1802M
Wind Baffle	Front Wind Baffle	☐	WB-PA3
Notes			

INDOOR UNIT DIMENSIONS: ERSF-NM6E



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