

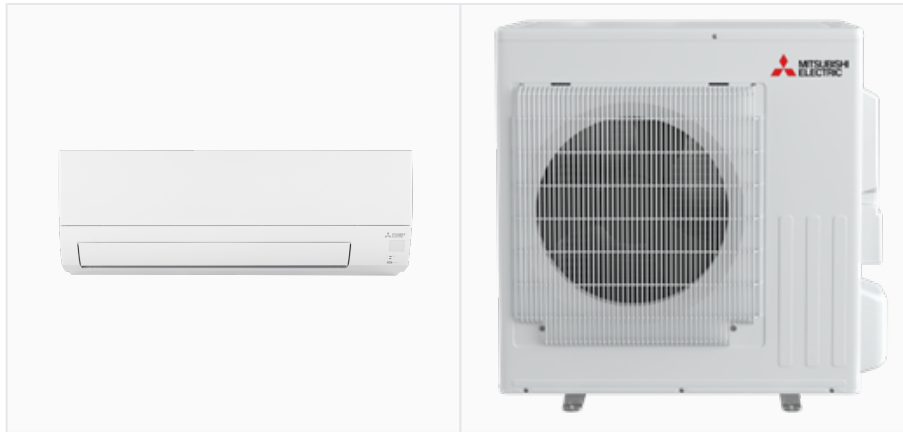
MSZ-HX24NL & MUZ-HX24NL
22,400 BTU/H WALL-MOUNTED INDOOR UNIT
22,400 BTU/H INVERTER HEAT PUMP OUTDOOR UNIT



Job Name:

System Reference:

Date:



INDOOR Unit ... MSZ-HX24NL

OUTDOOR Unit ... MUZ-HX24NL

INDOOR UNIT FEATURES

- **Swing Mode:** An indoor unit with this capability can move air throughout the room like an oscillating fan.
- **Smart Dry Mode:** Improves humidity control with minimal over-cooling of the space.
- **Smart Set:** Smart Set conveniently adjusts to the preferred preset temperature by pressing a single button on the remote control.
- **Dual Barrier Coating:** Dual Barrier Coating reduces the collection of contaminants like dust, fibers, smoke, and oil on the inner surface of the indoor unit.
- **Horizontal Vane Control:** Horizontal Vane Control allows the indoor unit vanes to be moved left right to provide even temperatures throughout a space.
- **Auto Changeover:** The unit will automatically switch between heating and cooling modes to maintain your desired temperature.

OUTDOOR UNIT FEATURES

- **Inverter Driven Compressor:** Inverter technology uses only the precise amount of energy needed to keep a space comfortable.
- **Blue Fin Coating:** Anti-corrosion coating that protects the outdoor heat exchanger against salt, sulfur, and other airborne contaminants that impact the efficiency and performance of the outdoor units.
- **Seacoast Protection:** Designed to protect against the corrosive effects of environments that are in close proximity to the sea.

SPECIFICATIONS: MSZ-HX24NL & MUZ-HX24NL

Cooling at 95F ¹	Maximum Capacity	Btu/h	22400
	Rated Capacity	Btu/h	22400
	Minimum Capacity	Btu/h	5800
	Maximum Power Input	W	2200
	Rated Power Input	W	1910
	Moisture Removal	Pints/h	5.50
	Sensible Heat Factor		0.73
	Power Factor [208V / 230V]	%	95 / 95
Heating at 47F ²	Maximum Capacity	Btu/h	26000
	Rated Capacity	Btu/h	26000
	Minimum Capacity	Btu/h	6200
	Maximum Power Input	W	2500
	Rated Power Input	W	2500
	Power Factor [208V / 230V]	%	97 / 97
Heating at 17F ³	Maximum Capacity	Btu/h	18500
	Rated Capacity	Btu/h	17200
	Maximum Power Input	W	3060
	Rated Power Input	W	1900
Heating at 5F ⁵	Maximum Capacity	Btu/h	18200
	Maximum Power Input	W	2960
Heating at -5F ⁷	Maximum Capacity	Btu/h	17980
Efficiency	SEER2		20
	EER2 ¹		11.75
	HSPF2 [IV]		9.50
	COP at 47°F ²		3.05
	COP at 17°F at Maximum Capacity ³		1.76
	COP at 5°F at Maximum Capacity ⁵		1.80
	COP at -5°F at Maximum Capacity ⁷		1.74
	ENERGY STAR® Certified		Yes
Electrical	Voltage, Phase, Frequency	V AC / V AC , Ø , Hz	208 / 230 , 1 , 60
	Guaranteed Voltage Range	V AC	187 - 253
	Voltage: Indoor - Outdoor, S1-S2	V AC	230 / 208
	Voltage: Indoor - Outdoor, S2-S3	V DC	24
	Short-circuit Current Rating [SCCR]	kA	5
	Recommended Fuse/Breaker Size (Outdoor)	A	25
	Recommended Wire Size [Indoor - Outdoor]	AWG	14
Indoor Unit	MCA	A	1
	Fan Motor Output	W	40
	Fan Motor Type		DC Motor
	Airflow Rate at Cooling, Dry	CFM	341 , 428 , 537 , 664
	Airflow Rate at Cooling, Wet	CFM	306 , 385 , 484 , 597
	Airflow Rate at Heating, Dry	CFM	394 , 482 , 579 , 720
	Sound Pressure Level [Cooling]	dB (A)	33 , 38 , 44 , 50
	Sound Pressure Level [Heating]	dB (A)	34 , 39 , 44 , 50
	Drain Pipe Size O.D.	inch [mm]	5/8 [15.88]
	Dual Barrier Coating on Heat Exchanger		No
	Dual Barrier Coating on Fan		Yes
	External Finish Color		Munsell 0.7PB 9.2/0.4
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	36-5/16 x 10-7/8 x 12 [923 x 278 x 305]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	39-1/2 x 15-1/4 x 14-1/4 [1000 x 390 x 360]
	Unit Weight	lbs [kg]	28 [12.50]
	Package Weight	lbs [kg]	33 [14.60]
IDU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum]	deg F , deg F / deg F , deg F	90 , 73 / 67 , 57
	Heating Intake Air Temp [Maximum / Minimum]	deg F	80 / 70
Outdoor Unit	MCA	A	23

Notes

¹Cooling (Indoor // Outdoor) °F 80 DB, 67 WB // 95 DB, 75 WB - test

²Heating at 47°F (Indoor // Outdoor) °F 70 DB, 60 WB // 47 DB, 43 WB

³Heating at 17°F (Indoor // Outdoor) °F 70 DB, 60 WB // 17 DB, 15 WB

⁵Heating at 5°F (Indoor // Outdoor) °F 70 DB, 60 WB // 5 DB, 4 WB

⁷Heating at -5°F (Indoor // Outdoor) °F 70 DB, 60 WB // -5 DB, -6 WB

¹Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]): • Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.

^{**}Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures): • System cuts out in heating mode and automatically restarts at these temperatures.

³Nominal capacity only. Actual capacity output varies based on the system specific configuration

SPECIFICATIONS: MSZ-HX24NL & MUZ-HX24NL

Outdoor Unit	MOCP	A	25
	Fan Motor Full Load Amperage	A	0.74
	Fan Motor Output	W	55
	Airflow Rate Cooling	CFM	2202
	Airflow Rate Heating	CFM	1934
	Defrost Method		Reverse Cycle
	Coating on Heat Exchanger (Bluefin, Sea Coast)		Yes , Yes
	Sound Pressure Level, Cooling ¹	dB (A)	54
	Sound Pressure Level, Heating ²	dB (A)	55
	Compressor Type		Twin Rotary
	Compressor Model		SRB172FQHMT
	Compressor Oil [Type // Charge]	// oz	RM68EH // 14.54
	External Finish Color		Munsell 3Y 7.8/1.1
	Base Pan Heater		Optional
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]
ODU Operating Temp. Range	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	38-5/8 x 16-9/16 x 16-9/16 [980 x 420 x 1030]
	Unit Weight	lbs [kg]	115 [52.2]
	Package Weight	lbs [kg]	134 [60.9]
	Cooling Intake Air Temp [Maximum / Minimum*]	F	115 / 14
Refrigerant	Cooling Thermal Lock-out / Re-start Temperatures**	F	-1 / 3
	Heating Intake Air Temp [Maximum / Minimum]	F , F / F , F	75 , 65 / -5 , -6
	Heating Thermal Lock-out / Re-start Temperatures**	F	-14 / -4
	Type		R454B
Piping	Pre-Charged Refrigerant Amount	lbs	3
	Maximum Pre-Charged Piping Length	ft [m]	50 [15]
	Additional Refrigerant Charge Per Additional Piping Length	oz/ft	0.22
	Gas Pipe Size O.D. [Flared]	inch [mm]	1/2 [12.72]
Piping	Liquid Pipe Size O.D. [Flared]	inch [mm]	1/4 [6.35]
	Maximum Piping Length	ft [m]	100 [30]
	Maximum Height Difference	ft [m]	50 [15]
	Maximum Number of Bends		10

Notes

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*Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]): • Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.

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INDOOR UNIT ACCESSORIES: MSZ-HX24NL

Condensate	Drain Pan Level Sensor/Control	☐ SS610E
	Refco Condensate Pump 100-240V up to 120k BTU/h	☐ COMBI
	Blue Diamond MegaBlue Condensate Pump with Reservoir Sensor 115-230V up to 170k BTU/h	☐ X87-835
	Refco Condensate Removal Pump with Wall Mount Enclosure 120-240V up to 120k BTU/h	☐ GOBI-II
	Blue Diamond MaxiBlue Condensate Pump with Reservoir Sensor 115-230V up to 48k BTU/h	☐ X88-721
	Blue Diamond (MaxiBlue Advanced) Mini Condensate Pump w/ Reservoir & Sensor (110V) up to 48,000 BTU/H [recommended]	☐ X87-711
	Blue Diamond Sensor Extension Cable 15 Ft	☐ C13-103
	Sauermann Condensate Pump 120-230V up to 60k BTU/h	☐ SI30-230
Control Interface	kumo station® for Comfort app	☐ PAC-WHS01HC-E
	IT Extender	☐ PAC-WHS01IE-E
	Airzone Wired Blueface Controller Black	☐ AZZBSBLUEZEROCN
	Airzone Wireless Think Controller White	☐ AZZBSTHINKRB
	Airzone Wireless Think Controller Black	☐ AZZBSTHINKRN
	Wireless Interface 2 for Comfrot app	☐ PAC-USWHS002-WF-2
	Airzone Wireless Lite Controller White	☐ AZZBSLITERB
	Procon BACnet® and Modbus® Interface	☐ PAC-UKPRC001-CN-1
	Airzone Wireless Lite Controller Black	☐ AZZBSLITERN
	Thermostat Interface for 3rd Party Thermostats	☐ PAC-US445CN-1
	M-Net I/O Control Interface for M-Series ²	☐ MAC-334IF-E
	Airzone Wired Blueface Controller White	☐ AZZBSBLUEZEROCB
Disconnect Switch	30A600VUL fits 2 X 4 utility box - Black	☐ TAZ-MS303
	(30A/600V/UL) [fits 2" X 4" utility box] - White	☐ TAZ-MS303W
Drain Hose	Flexible Mini-Split Drain Hose	☐ DRX-16
Filter	Microparticle Filter	☐ MAC-EMF515FT-E
	Electro Static Anti-allergy Enzyme Filter	☐ MAC-2320FT-E
Lineset	1/4 x 1/2 Lineset Twin-Tube Insulation - 30 feet	☐ MLS141212T-30
	1/4 x 1/2 Lineset Twin-Tube Insulation - 15 feet	☐ MLS141212T-15
	1/4 x 1/2 Lineset Twin-Tube Insulation - 100 feet	☐ MLS141212T-100
	1/4 x 1/2 Lineset Twin-Tube Insulation - 50 feet	☐ MLS141212T-50
	1/4 x 1/2 Lineset Twin-Tube Insulation - 65 feet	☐ MLS141212T-65
N/A		☐ Unknown
Remote Sensor	Wireless temperature and humidity sensor for Comfort app	☐ PAC-USWHS003-TH-1
Terminal Signal Adapter	Backup Heat Relay Kit	☐ CN24RELAY-KIT-CM3
Wired Remote Controller	Simple MA Remote Controller ¹	☐ PAC-YT53CRAU-J
	Deluxe MA Wired Remote Controller ¹	☐ PAR-42MAAUB
	Touch MA Remote Controller ¹	☐ PAR-CT01MAU-SB
	Simple Direct Wired Remote Controller	☐ PAC-SDW01RC-1
Wireless Remote Controller	Lockdown Bracket for Wireless Handheld Remote Controllers	☐ RCMKP1CB
	Wireless RedLINK™ Remote Controller	☐ MHK2
Notes		

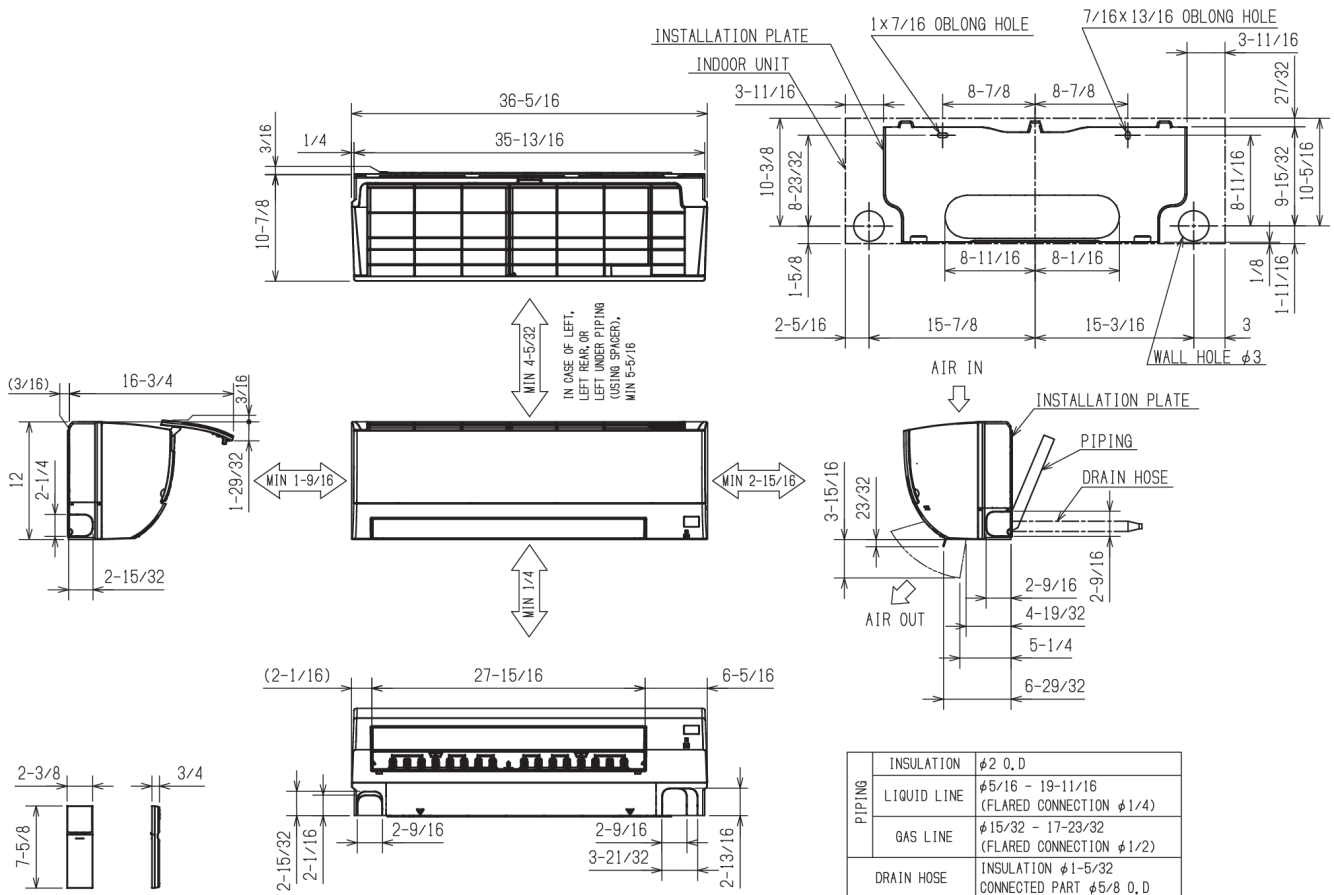
OUTDOOR UNIT ACCESSORIES: MUZ-HX24NL

Air Outlet Guide	Air Outlet Guide	☐	MAC-890SG-E
Control/Service Tool	Maintenance Tool Interface	☐	PAC-USCMS-MN-1
	M- & P-Series Maintenance Tool Cable Set	☐	M21EC0397
Drain Socket	Drain Socket	☐	MAC-871DS
Hail Guards	Hail Guard	☐	HG-A7
Mini-Split Wire	16 Gauge 4 wire Armored MiniSplit Cable250 ft roll	☐	SW164-250
	14 Gauge 4 wire MiniSplit Cable50 ft roll	☐	S144-50
	16 Gauge 4 wire MiniSplit Cable250 ft roll	☐	S164-250
	14 Gauge 4 wire MiniSplit Cable250 ft roll	☐	S144-250
	14 Gauge 4 wire Armored MiniSplit Cable50 ft roll	☐	SW144-50
	16 Gauge 4 wire MiniSplit Cable50 ft roll	☐	S164-50
	14 Gauge 4 wire Armored MiniSplit Cable250 ft roll	☐	SW144-250
	16 Gauge 4 wire Armored MiniSplit Cable50 ft roll	☐	SW164-50
Mounting Pad	Condensing Unit Mounting Pad 16 x 36 x 3	☐	ULTRILITE1
Optional Defrost Heater	Base Heater	☐	MAC-660BH-U
Snow/Rain Diverter	SnowRain Diverter	☐	SRD-3
Stand	24 Single Fan Stand	☐	QSMS2401M
	Condenser Wall Bracket	☐	QSWB2000M-1
	Outdoor Unit Stand 12 High	☐	QSMS1201M
	Condenser Wall Bracket - Stainless Steel Finish	☐	QSWBSS
	Outdoor Unit 3-14 inch Mounting Base Pair - Plastic	☐	DSD-400P
	18 Single Fan Stand	☐	QSMS1801M
Notes			

INDOOR UNIT DIMENSIONS: MSZ-HX24NL

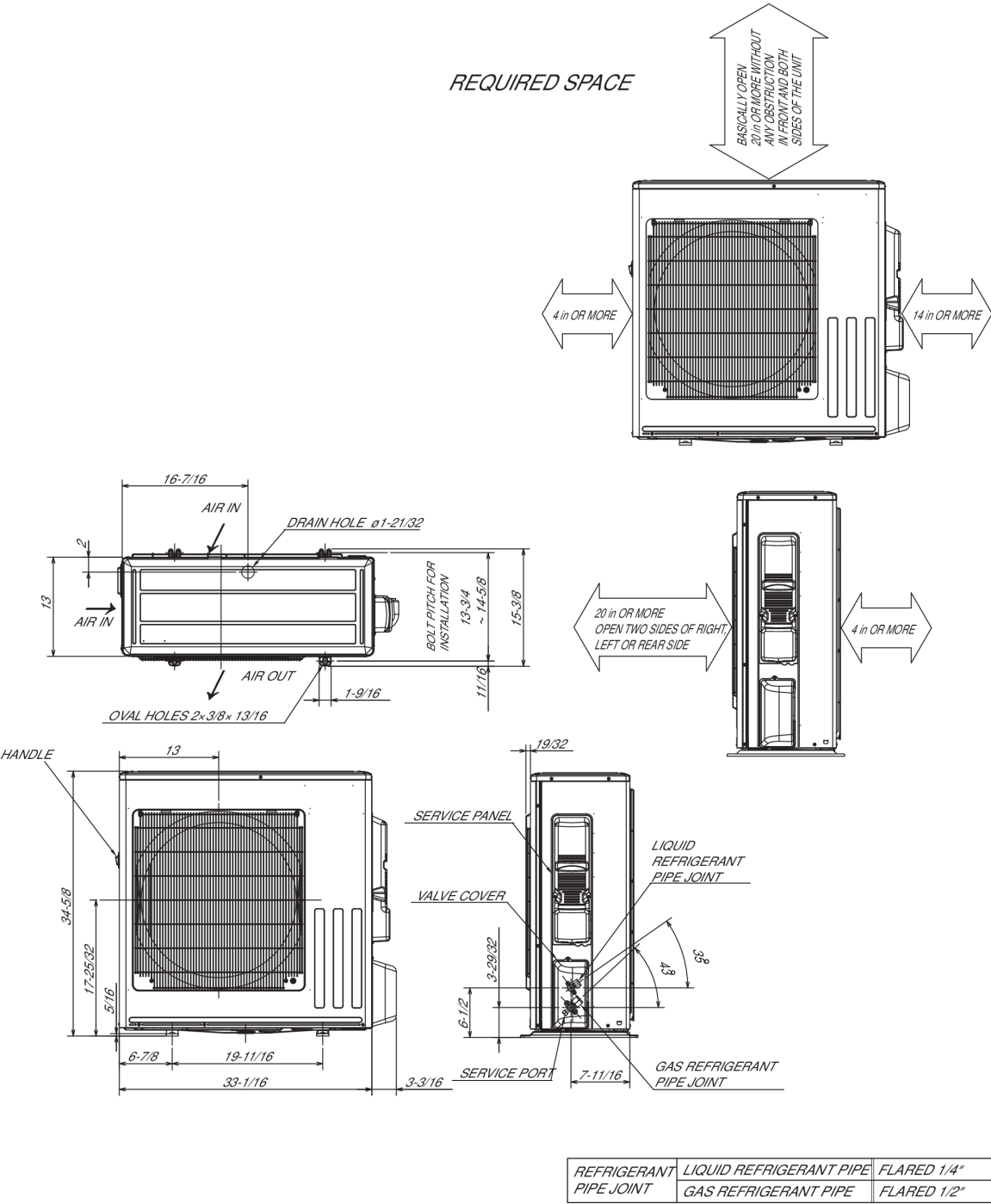
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MSZ-HX24NL - U1



OUTDOOR UNIT DIMENSIONS: MUZ-HX24NL

MUZ-HX24NL-U1



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