

# **ODU Service Manual**

# Model: GWHD(18)ND3MO



Model			GWHD(18)ND3MO	
Davisar	Rated Voltage	V~	208/230	
Power	Rated Frequency	Hz	60	
supply	Phases	-	1	
Cooling c	apacity	Btu/h	17000	
Heating c	apacity	Btu/h	18000	
Cooling P	ower Input	W	1420	
Heating F	Power Input	W	1380	
Cooling C	Current Input	A	6.28	
Heating C	Current Input	A	6.12	
Rated Power Input		W	2300/2100	
Rated Current		Α	10.0/9.0	
EER		(Btu/h)/W	12.00	
СОР		(Btu/h)/W	13.03	
SEER		-	21.00(SEER) 21.00(SEER2)	
HSPF		-	10.00(HSPF) 10.00(HSPF2)	
	Compressor Trademark	-	ZHUHAI LANDA COMPRESSOR CO., LTD.	
	Compressor Model	-	QXF-A139zH170A	
	Compressor Refrigerant Oil Type	-	FW68DA or equivalent	
Outdoor Unit	Compressor Type	-	Inverter Rotary	
	L.R.A	Α	25	
	Compressor Rated Load Amp (RLA)	Α	9.95	
	Compressor Power Input	W	1295	
	Compressor Thermal Protector	-	KSD115°C HPC115/95U1	
	Throttling Method	-	Electron expansion valve	

Job Name:	
Schedule Reference:	Date:

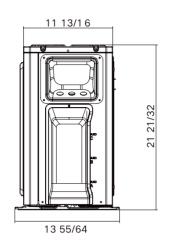


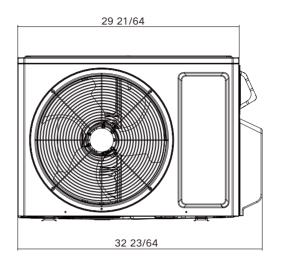
	Cooling Operation Ambient Temperature Range	°F	-22~118
	Heating Operation Ambient Temperature Range	°F	-22~75.2
	Condenser Material	-	Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Ф7.94
	Rows-Fin Gap(mm)	mm	2-1.4
	Coil length (I) × height (H) × coil width (L)	mm	834 × 528 × 38.1
	Fan Motor Speed (rpm)	rpm	cooling:900 heating:900
	Output of Fan Motor	w	30
	Fan Motor RLA	Α	1
	Fan Motor Capacitor	μF	1
	Air Flow Volume of Outdoor Unit	CFM	1354
	Fan Type-Piece	-	Axial-flow
	Fan Diameter	mm	Ф420-131.1
	Defrosting Method	-	Automatic Defrosting
	Climate Type	-	T1
	Isolation	-	I
ıtdoor	Moisture Protection	-	IPX4
Jnit	Permissible Excessive Operating Pressure for the Discharge Side	PSIG	550
Jill	Permissible Excessive Operating Pressure for the Suction Side	PSIG	240
	Dimension (W × D × H)	inch	32 23/64×13 55/64×21 21/32
	Dimension of Package (L × W × H)	inch	34 7/32×15 35/64×23 25/64
	Dimension of Package(L × W × H)	inch	34 21/64 × 15 43/64 × 24 13/32
	Net Weight	lb	77.2
	Gross Weight	lb	82.7
	efrigerant Charge	-	R410A
	Refrigerant Charge	oz	45.9
	Cross-sectional Area of Power Cable Conductor	sq in	0.0032(AWG14)
	Recommended Power Cable(Core)	N	3
	Connection Pipe Connection Method	-	Flare Connection
	Not Additional Gas Connection Pipe Length	ft	32.8
	Connection Pipe Gas Additional Charge	oz/ft.	0.2
	Outer Diameter of Liquid Pipe1 (GREE Allocation) (Metric)	inch	1/4"
	Outer Diameter of Liquid Pipe2(GREE Allocation)(Metric)	inch	1/4"
	Outer Diameter of Gas Pipe1 (GREE Allocation) (Metric)	inch	3/8"
	Outer Diameter of Gas Pipe2(GREE Allocation) (Metric)	inch	3/8"
	Connection Pipe Max. Height Distance(indoor and indoor)	ft	49.
	Connection Pipe Max. Height Distance(indoor and indoor)  Connection Pipe Max. Height Distance(indoor and outdoor and indoor up)	ft	49.
	Connection Pipe Max. Height Distance(indoor and outdoor and outdoor up)	ft	49.2
	Max. equivalent connection pipe length(outdoor to last indoor)	ft	65.6
	Connection Pipe Max. Length Distance(total lenght)	ft	131.2

Job Name:	
Schedule Reference:	Date:

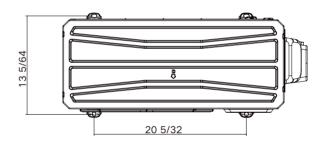


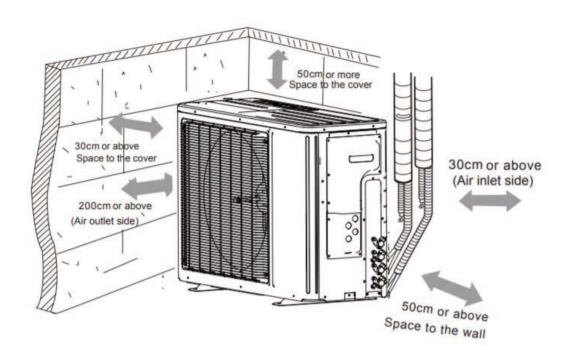
### Outline and Physical Dimensions of GWHD(18)ND3MO





Unit: inch















# **ODU Service Manual**

# Model: GWHD(24)ND3MO



Model			GWHD(24)ND3MO
Dower	Rated Voltage	V~	208/230
Power	Rated Frequency	Hz	60
supply	Phases	-	1
Cooling c	apacity	Btu/h	23200
Heating c	apacity	Btu/h	24000
Cooling P	ower Input	W	1860
Heating P	Power Input	W	1800
Cooling C	Current Input	А	8.00
Heating C	Current Input	Α	7.83
Rated Power Input		W	3200/3400
Rated Current		А	14.2/15
EER		(Btu/h)/W	12.49
COP		(Btu/h)/W	13.34
SEER		-	21.00(SEER) 21.00(SEER2)
HSPF		-	10.00(HSPF) 10.00(HSPF2)
	Compressor Trademark	-	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model	-	QXFS-B212zX070
	Compressor Refrigerant Oil Type	-	FW68DA or equivalent
Outdoor	Compressor Type	-	Twin Rotary
Unit	L.R.A	А	/
	Compressor Rated Load Amp (RLA)	А	12.1
	Compressor Power Input	W	1887
	Compressor Thermal Protector	-	KSD115°C HPC115/95U1
	Throttling Method	-	Electron expansion valve

Job Name:	
Schedule Reference:	Date:

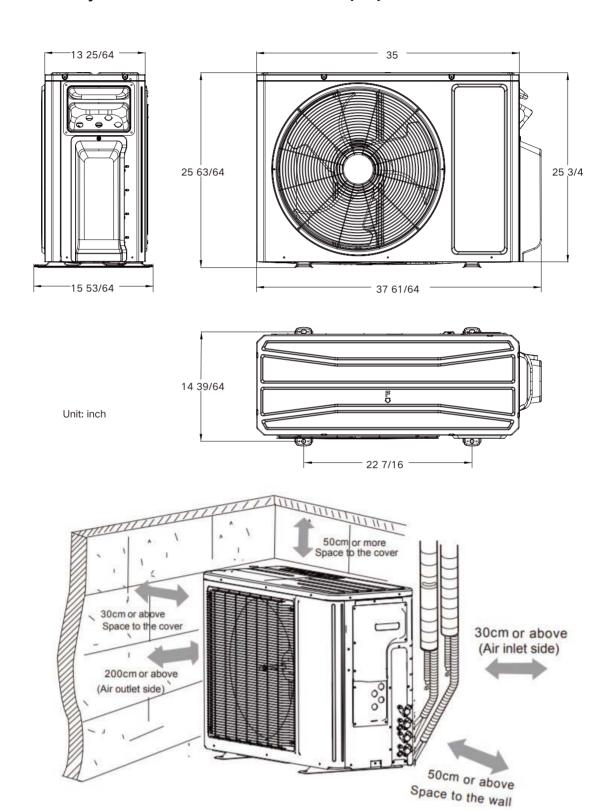


	Cooling Operation Ambient Temperature Range	°F	-22~118
	Heating Operation Ambient Temperature Range	°F	-22~75.2
	Condenser Material		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7.94
	Rows-Fin Gap(mm)	mm	2-1.4
	Coil length (I) × height (H) × coil width (L)	mm	851 × 616 × 38.1
	Fan Motor Speed (rpm)	rpm	cooling:850 heating:850
	Output of Fan Motor	W	60
	Fan Motor RLA	Α	Ĺ
	Fan Motor Capacitor		1
	Air Flow Volume of Outdoor Unit	CFM	2236
	Fan Type-Piece	- 1	Axial-flow
	Fan Diameter	mm	Ф520-154
	Defrosting Method	-	Automatic Defrosting
	Climate Type	-	T1
	Isolation	ž	Ĵ
utdoor	Moisture Protection	=	IPX4
Unit	Permissible Excessive Operating Pressure for the Discharge Side	PSIG	550
	Permissible Excessive Operating Pressure for the Suction Side	PSIG	240
	Dimension (W × D × H)	inch	37 61/64×15 53/64×25 63/64
	Dimension of Package (L × W × H)	inch	40 33/64×17 53/64×28 5/32
	Dimension of Package(L × W × H)	inch	40 5/8×17 61/64×29 1/64
	Net Weight	lb	114.7
	Gross Weight	lb	124.6
	efrigerant Charge	-	R410A
	Refrigerant Charge	OZ	84.7
	Cross-sectional Area of Power Cable Conductor	sq in	0.0051 (AWG12)
	Recommended Power Cable(Core)	N	3
	Connection Pipe Connection Method	-	Flare Connection
	Not Additional Gas Connection Pipe Length	ft	131.2
	Connection Pipe Gas Additional Charge	oz/ft.	0.2
	Outer Diameter of Liquid Pipe1 (GREE Allocation) (Metric)	inch	1/4"
	Outer Diameter of Liquid Pipe2(GREE Allocation)(Metric)	inch	1/4"
	Outer Diameter of Liquid Pipe3(GREE Allocation)(Metric)	inch	1/4"
	Outer Diameter of Gas Pipe1 (GREE Allocation) (Metric)	inch	3/8"
	Outer Diameter of Gas Pipe2(GREE Allocation)(Metric)	inch	3/8"
	Outer Diameter of Liquid Pipe3(GREE Allocation)(Metric)	inch	3/8"
	Connection Pipe Max. Height Distance(indoor and indoor)	ft	49.212
	Connection Pipe Max. Height Distance(indoor and outdoor and indoor up)	ft	49.212
	Connection Pipe Max. Height Distance(indoor and outdoor and outdoor up)	ft	49.212
	Max. equivalent connection pipe length(outdoor to last indoor)	ft	65.6
	Connection Pipe Max. Length Distance(total lenght)	ft	196.8

Job Name:	
Schedule Reference:	Date:



### Outline and Physical Dimensions of GWHD(24)ND3MO













# **ODU Service Manual**

# Model: GWHD(30)ND3MO



Model			GWHD(30)ND3MO
Davisar	Rated Voltage	V~	208/230
Power	Rated Frequency	Hz	60
supply	Phases	-	1
Cooling c	apacity	Btu/h	28400
Heating c	apacity	Btu/h	30000
Cooling P	ower Input	W	2270
Heating P	Power Input	W	2250
Cooling C	Current Input	А	10.07
Heating C	Current Input	А	9.98
Rated Power Input		W	4600/5000
Rated Current		А	20.41/21.74
EER		(Btu/h)/W	12.49
COP		(Btu/h)/W	13.34
SEER		-	21.00(SEER) 21.00(SEER2)
HSPF		-	10.00(HSPF) 10.00(HSPF2)
	Compressor Trademark	-	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model	-	QXFS-B238zX070
Outdoor Unit	Compressor Refrigerant Oil Type	-	FW68DA or equivalent
	Compressor Type	-	Inverter Rotary
	L.R.A	А	/
	Compressor Rated Load Amp (RLA)	Α	14.25
	Compressor Power Input	W	2047
	Compressor Thermal Protector	-	KSD115°C HPC115/95U1
	Throttling Method	_	Electron expansion valve

Job Name:	
Schedule Reference:	Date:

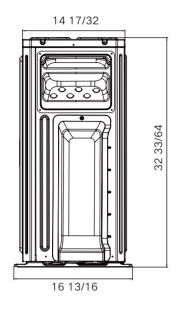


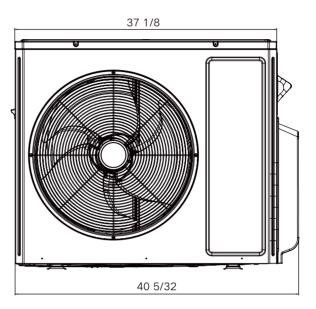
ating Operation Ambient Temperature Range	op-	
and the second Advantage of the second secon	°F	-22~75.2
ndenser Material		Aluminum Fin-copper Tube
ndenser Pipe Diameter	mm	Φ7.94
ws-Fin Gap(mm)	mm	2-1.4
il length (I) × height (H) × coil width (L)	mm	1066 × 792 × 38.1
n Motor Speed (rpm)	rpm	cooling:860 heating:860
tput of Fan Motor	W	130
n Motor RLA	Α	7
n Motor Capacitor	-	Œ
Flow Volume of Outdoor Unit	CFM	3413
n Type-Piece	-	Axial-flow
n Diameter	mm	Ф550-205
frosting Method	-	Automatic Defrosting
mate Type	-	T1
lation	Ä	ŭ
sisture Protection	-	IPX4
rmissible Excessive Operating Pressure for the Discharge Side	PSIG	550
rmissible Excessive Operating Pressure for the Suction Side	PSIG	240
nension (W×D×H)	inch	40 5/32×16 13/16×32 33/64
nension of Package (L×W×H)	inch	42 29/32×19 29/64×34 1/4
nension of Package(L×W×H)	inch	43 1/32 × 19 9/16 × 34 27/32
t Weight	lb	152.1
oss Weight	lb	167.6
igerant Charge	=	R410A
frigerant Charge	oz	105.8
oss-sectional Area of Power Cable Conductor	sq in	0.008215(AWG10)
commended Power Cable(Core)	N	3
nnection Pipe Connection Method	-	Flare Connection
t Additional Gas Connection Pipe Length	ft	131.2
nnection Pipe Gas Additional Charge	oz/ft.	0.2
ter Diameter of Liquid Pipe1 (GREE Allocation) (Metric)	inch	1/4"
ter Diameter of Liquid Pipe2(GREE Allocation)(Metric)	inch	1/4"
ter Diameter of Liquid Pipe3(GREE Allocation)(Metric)	inch	1/4"
ter Diameter of Liquid Pipe4(GREE Allocation)(Metric)	inch	1/4"
ter Diameter of Gas Pipe1 (GREE Allocation) (Metric)	inch	3/8"
ter Diameter of Gas Pipe2(GREE Allocation)(Metric)	inch	3/8"
ter Diameter of Cas Pipe2(CREE Allocation) (Metric)	inch	3/8"
ter Diameter of Liquid Pipes(GREE Allocation) (Metric)	inch	3/8"
		82.0
		82.0
		82.0
		82.0 262.5
nnect nnect nnect ax. eq	tion Pipe Max. Height Distance(indoor and indoor) ion Pipe Max. Height Distance(indoor and outdoor and indoor up) ion Pipe Max. Height Distance(indoor and outdoor and outdoor up) uivalent connection pipe length(outdoor to last indoor) tion Pipe Max. Length Distance(total lenght)	tion Pipe Max. Height Distance(indoor and indoor)  ft  ion Pipe Max. Height Distance(indoor and outdoor and indoor up)  ft  ion Pipe Max. Height Distance(indoor and outdoor and outdoor up)  ft  uivalent connection pipe length(outdoor to last indoor)  ft

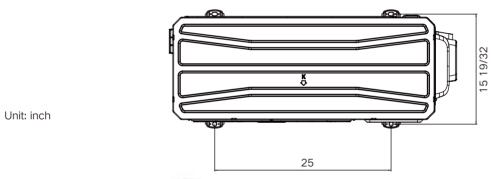
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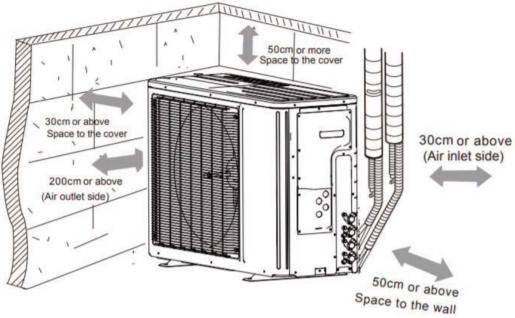


### Outline and Physical Dimensions of GWHD(30)ND3MO



















# **ODU Service Manual**

# Model: GWHD(36)ND3MO



Model			GWHD(36)ND3MO	
Power	Rated Voltage	V~	208/230	
	Rated Frequency	Hz	60	
supply	Phases	-	1	
Cooling capacity		Btu/h	34000	
Heating capacity		Btu/h	36000	
Cooling Po	ower Input	W	2830	
Heating P	ower Input	W	2960	
Cooling Current Input		А	12.56	
Heating Current Input		А	13.13	
Rated Power Input		W	4600/5200	
Rated Current		А	20.41/22.61	
EER		(Btu/h)/W	12.00	
COP		(Btu/h)/W	12.16	
SEER		-	21.00(SEER) 21.00(SEER2)	
HSPF		-	10.00(HSPF) 10.00(HSPF2)	
	Compressor Trademark	-	ZHUHAI LANDA COMPRESSOR CO., LTD.	
	Compressor Model	-	QXFS-D280zX070C	
Outdoor Unit	Compressor Refrigerant Oil Type	-	FW68DA or equivalent	
	Compressor Type	-	Twin Rotary	
	L.R.A	A	/	
	Compressor Rated Load Amp (RLA)	A	18.2	
	Compressor Power Input	W	2294	
	Compressor Thermal Protector	-	KSD115°C HPC115/95U1	
	Throttling Method	-	Electron expansion valve	

Job Name:	
Schedule Reference:	Date:

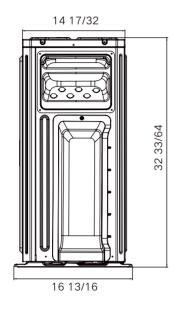


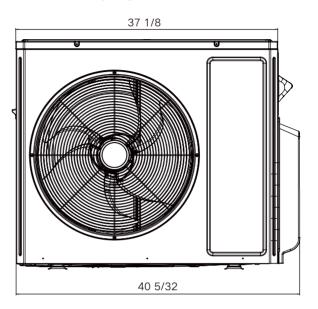
Heating Operation Ambient Temperature Range  Condenser Material  Condenser Pipe Diameter  Rows-Fin Gap(mm)  Coil length (I) × height (H) × coil width (L)	°F - mm	-22~75.2 Aluminum Fin-copper Tube
Condenser Pipe Diameter Rows-Fin Gap(mm)		Aluminum Fin-copper Tube
Rows-Fin Gap(mm)	mm	
		Φ7.94
Coil lenath (I) × height (H) × coil width (L)	mm	3-1.6
3 (7 3 (7 3 )	mm	1066 × 792 × 57.1
Fan Motor Speed (rpm)	rpm	cooling:860 heating:860
Output of Fan Motor	W	130
Fan Motor RLA	Α	1
Fan Motor Capacitor	-	1
Air Flow Volume of Outdoor Unit	CFM	3413
Fan Type-Piece	- 1	Axial-flow
Fan Diameter	mm	Ф550-205
Defrosting Method	-	Automatic Defrosting
Climate Type	-	T1
Isolation	-	I
Moisture Protection	-	IPX4
Permissible Excessive Operating Pressure for the Discharge Side	PSIG	550
Permissible Excessive Operating Pressure for the Suction Side	PSIG	240
Dimension (W × D × H)	inch	40 5/32×16 13/16×32 33/64
Dimension of Package (L×W×H)	inch	42 29/32×19 29/64×34 1/4
Dimension of Package(L × W × H)	inch	43 1/32×19 9/16×34 27/32
Net Weight	lb	172.0
Gross Weight	lb	187.4
efrigerant Charge	-	R410A
Refrigerant Charge	oz	130.5
Cross-sectional Area of Power Cable Conductor	sq in	0.008215(AWG10)
Recommended Power Cable(Core)	N	3
Connection Pipe Connection Method	-	Flare Connection
	ft	131.2
	oz/ft.	0.2
	inch	1/4"
		1/4"
	inch	1/4"
		1/4"
		3/8"
		3/8"
, , , , , ,		3/8"
		3/8"
		82.0
		82.0
		82.0
		82.0 262.5
	Air Flow Volume of Outdoor Unit Fan Type-Piece Fan Diameter Defrosting Method Climate Type Isolation Moisture Protection Permissible Excessive Operating Pressure for the Discharge Side Permissible Excessive Operating Pressure for the Suction Side Dimension (W × D × H) Dimension of Package (L × W × H) Dimension of Package (L × W × H) Net Weight Gross Weight efrigerant Charge Refrigerant Charge Refrigerant Charge Cross-sectional Area of Power Cable Conductor Recommended Power Cable(Core) Connection Pipe Connection Method Not Additional Gas Connection Pipe Length Connection Pipe Gas Additional Charge Outer Diameter of Liquid Pipe1 (GREE Allocation) (Metric) Outer Diameter of Liquid Pipe4 (GREE Allocation) (Metric) Outer Diameter of Gas Pipe1 (GREE Allocation) (Metric) Outer Diameter of Gas Pipe1 (GREE Allocation) (Metric) Outer Diameter of Gas Pipe2 (GREE Allocation) (Metric) Outer Diameter of Liquid Pipe3 (GREE Allocation) (Metric) Outer Diameter of Gas Pipe2 (GREE Allocation) (Metric) Outer Diameter of Gas Pipe2 (GREE Allocation) (Metric) Outer Diameter of Liquid Pipe3 (GREE Allocation) (Metric) Outer Diameter of Liquid Pipe4 (GREE Allocation) (Metric)	Air Flow Volume of Outdoor Unit  Fan Type-Piece Fan Diameter  Defrosting Method  Climate Type

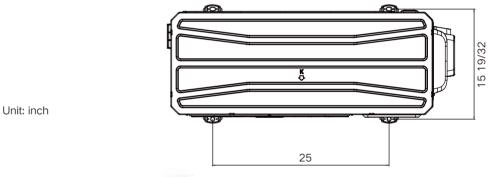
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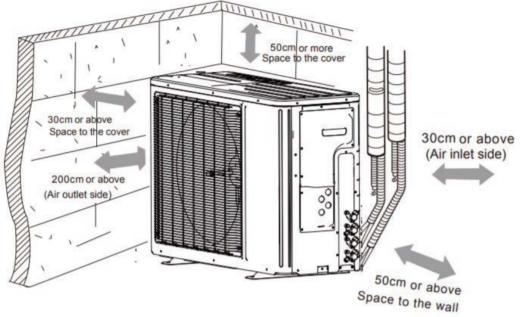


### Outline and Physical Dimensions of GWHD(36)ND3MO



















## **ODU Service Manual**

# Model: GWHD(42)ND3MO



Model		GWHD(42)ND3MO	
Danner	Rated Voltage	V~	208/230
Power	Rated Frequency	Hz	60
supply	Phases	-	1
Cooling capacity		Btu/h	36000
Heating capacity		Btu/h	40000
Cooling Power Input		W	3000
Heating P	lower Input	W	3020
Cooling C	urrent Input	А	13.31
Heating C	Current Input	А	13.40
Rated Power Input		W	4600/5200
Rated Current		А	20.41/22.61
EER		(Btu/h)/W	12.00
COP		(Btu/h)/W	13.25
SEER		-	21.00(SEER) 21.00(SEER2)
HSPF		-	10.00(HSPF) 10.00(HSPF2)
	Compressor Trademark	_	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model	-	QXFS-D280zX070C
	Compressor Refrigerant Oil Type	-	FW68DA or equivalent
Outdoor	Compressor Type	-	Twin Rotary
Unit	L.R.A	А	/
	Compressor Rated Load Amp (RLA)	А	18.4
	Compressor Power Input	W	2294
	Compressor Thermal Protector	-	KSD115°C HPC115/95U1
	Throttling Method	_	Electron expansion valve

Job Name:		
Schedule Reference:	Date:	



	Cooling Operation Ambient Temperature Range	°F	-22~118
	Heating Operation Ambient Temperature Range	°F	-22~75.2
	Condenser Material	-	Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7.94
	Rows-Fin Gap(mm)	mm	3-1.6
	Coil length (I) × height (H) × coil width (L)	mm	1066 × 792 × 57.1
	Fan Motor Speed (rpm)	rpm	cooling:860 heating:860
	Output of Fan Motor	W	130
	Fan Motor RLA	Α	1
	Fan Motor Capacitor	-	1
	Air Flow Volume of Outdoor Unit	CFM	3413
	Fan Type-Piece	-	Axial-flow
	Fan Diameter	mm	Ф550-205
	Defrosting Method	-	Automatic Defrosting
	Climate Type	-	T1
	Isolation	-	I
tdoor	Moisture Protection	-	IPX4
Jnit	Permissible Excessive Operating Pressure for the Discharge Side	PSIG	550
Jill	Permissible Excessive Operating Pressure for the Suction Side	PSIG	240
	Dimension (W×D×H)	inch	40 5/32×16 13/16×32 33/64
	Dimension of Package (L × W × H)	inch	42 29/32×19 29/64×34 1/4
	Dimension of Package(L × W × H)	inch	43 1/32×19 9/16×34 27/32
	Net Weight	lb	174.2
	Gross Weight	lb	189.6
	efrigerant Charge	-	R410A
	Refrigerant Charge	oz	134.0
	Cross-sectional Area of Power Cable Conductor	sq in	0.008215(AWG10)
	Recommended Power Cable(Core)	N	3
	Connection Pipe Connection Method	- 1	Flare Connection
	Not Additional Gas Connection Pipe Length	ft	164.0
	Connection Pipe Gas Additional Charge	oz/ft.	0.2
	Outer Diameter of Liquid Pipe1 (GREE Allocation) (Metric)	inch	1/4"
	Outer Diameter of Liquid Pipe2(GREE Allocation)(Metric)	inch	1/4"
	Outer Diameter of Liquid Pipe3(GREE Allocation)(Metric)	inch	1/4"
	Outer Diameter of Liquid Pipe4(GREE Allocation)(Metric)	inch	1/4"
	Outer Diameter of Liquid Pipe5(GREE Allocation)(Metric)	inch	1/4"
	Outer Diameter of Gas Pipe1 (GREE Allocation) (Metric)	inch	3/8"
		-	3/8"
	Outer Diameter of Gas Pipe2(GREE Allocation)(Metric)	inch	
	Outer Diameter of Liquid Pipe3(GREE Allocation)(Metric)	inch	3/8"
	Outer Diameter of Liquid Pipe4(GREE Allocation)(Metric)	inch	3/8"
	Outer Diameter of Liquid Pipe5(GREE Allocation)(Metric)	inch	3/8"
	Connection Pipe Max. Height Distance(indoor and indoor)	ft	82.0
	Connection Pipe Max. Height Distance(indoor and outdoor and indoor up)	ft	82.0
	Connection Pipe Max. Height Distance(indoor and outdoor and outdoor up)	ft	82.0
	Max. equivalent connection pipe length(outdoor to last indoor)	ft	82.0
	Connection Pipe Max. Length Distance(total lenght)	ft	328.1

Job Name:	
Schedule Reference:	Date:



### Outline and Physical Dimensions of GWHD(42)ND3MO

