



SUBMITTAL DATA SHEET

NDHAS22-12-I/NDHAS22-12-O		12,000 BTU/H(208/230V)	Wall Mounted Heat Pump System
Location: _____	Approval: _____		
Engineer: _____	Date: _____		
Submitted to: _____	Construction: _____		
Submitted by: _____	Unit #: _____		
Reference: _____	Drawing #: _____		

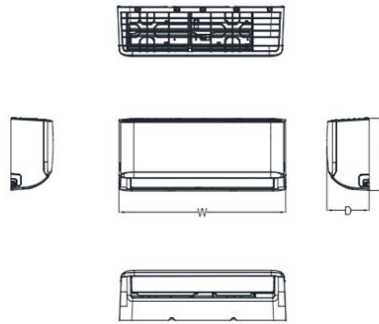
Set Model	
Indoor unit model	NDHAS22-12-I
Outdoor unit model	NDHAS22-12-O
Certified	
AHRI	
UL	



SYSTEM PERFORMANCE DATA		
Power supply		
Normal Operational Voltage	(V, Ph, Hz)	208/230, 1, 60
Voltage Range	(V)	187-253
Electrical		
Minimum circuit ampacity	(A)	13.0
Max.fuse	(A)	15.0
Connection wiring		14*4 AWG
Cooling		
Rated Capacity	(Btu/h)	12000
Capacity Range	(Btu/h)	3600~13300
Power Input (Max)	(W)	930
Rated current	(A)	4.05
SEER (SEER2)	(Btu/W)	22.2 (23.1)
EER (EER2)	(Btu/W)	13 (13)
Heating at 47F		
Rated Capacity	(Btu/h)	12000
Capacity Range	(Btu/h)	4500~13500
Power Input (Max)	(W)	1035
Rated current	(A)	4.5
HSPF Reg 4 (HSPF2 Reg 4)	(Btu/W)	11 (10.8)
HSPFReg 5 (HSPF2 Reg 5)	(Btu/W)	9.1 (8)
COP	W/W	3.40
Heating at 17F		
Max Capacity	(Btu/h)	12000
REFRIGERANT PIPE DATA		
Design pressure	(PSIG)	550/340
Refrigerant Type	(Oz)	R410A/38.1
Refrigerant precharge	(ft)	25.0
	(m)	7.6
Additional charge for each ft	(oz/ft)	0.16
	(g/ft)	15
Liquid side/ Gas side	(inch)	1/4" / 1/2"
	(mm)	Φ6.35 / Φ12.7
Max. pipe length	(ft)	82.0
	(m)	25.0
Max. difference in level	(ft)	32.8
	(m)	10.0
Connection method		(Flared)
Indoor(cooling/ heating)	(Deg. °F)	60~90 / 32~86
	(Deg. °C)	16~32 / 0~30
Outdoor(cooling/heating)	(Deg. °F)	-13~122 / -13~75
	(Deg. °C)	-25~50 / -25~24
Application area	(sq.ft)	172.22~247.57
	(m2)	16~23

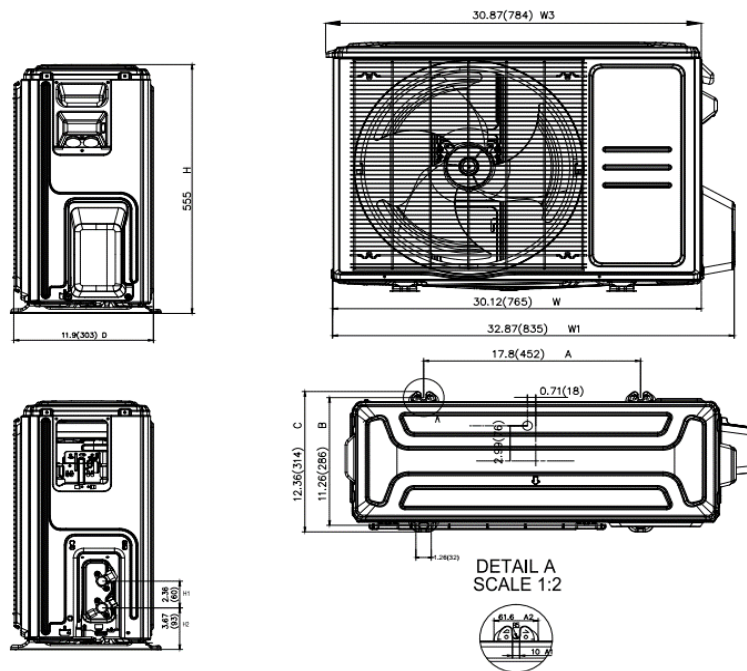
INDOOR UNIT DATA		
Indoor fan motor		
Type		Cross-Flow
Model		ZKFP-13-8-4
Qty		1
Input	(W)	-
RLA	(A)	-
LRA	(A)	---
Winding Resistance	(Ω)	---
Capacitor	(uF)	---
Speed(Hi/Mi/Lo)	(r/min)	1250/950/750
Air flow & Noise level		
Indoor air flow (Hi/Med/Lo) (I)	(CFM)	291.18/194.12/152.94
Indoor noise level (Hi/Med/Li)	[dB(A)]	42/36/25
Dehumidification	(Pint/H)	---
Indoor unit		
Dimension (WxDxH)	(inch)	31.57x7.87x11.61
	(mm)	802x200x295
Packing(WxDxH)	(inch)	34.45x11.22x14.96
	(mm)	875x285x380
Net/Gross weight	(lbs.)	18.74/24.25
	(kg)	8.5/11
OUTDOOR UNIT DATA		
Compressor		
Type		KSK103D33UEZ3
Model		ROTARY
Brand		GMCC
Capacity	(Btu/h)	6944 / 11107
Input	(W)	325 / 826
Rated current (RLA)	(A)	-
Refrigerant oil/oil charge	(ml)	-
Throttle		Capillary +EXV
Outdoor fan motor		
Model		ZKFN-34-10-1
Qty		1
Input	(W)	--
RLA	(A)	--
Speed	(r/min)	800/600
Air flow & Noise level		
Outdoor air flow (Max.)	(CFM)	1294.10
Outdoor noise level	[dB(A)]	53.5
Outdoor unit		
Dimension (W×D×H)	(inch)	30.12x11.93x21.85
	(mm)	765x303x555
Packing (W×D×H)	(inch)	34.92x13.27x24.02
	(mm)	887x337x610
Net/ Gross weight	(lbs.)	63.71/69.00
	(kg)	28.9/31.3

Indoor unit dimension



Capacity	Body Code	W(mm/inch)	D(mm/inch)	H(mm/inch)
12K~21K	C	971/38.23	228/8.98	321/12.64
18K~28K	D	1082/42.6	234/9.21	337/13.27
27K~36K	F	1259/49.57	283/11.14	362/14.25

Outdoor unit dimension



General Features

Wireless Remote with LCD Display
 46F Heating
 Sleep Mode
 Silent Mode
 Self Clean
 Follow Me (optional)