	_	_
Project Name:		
Location:		
Engineer:		
Submitted to:		
Submitted by:		
Reference:		

Approval:	
Date:	
Construction:	
Unit #:	
Drawing #:	

Description: Hi-Ultra, 2.0 Ton Multi-Position Air Handler, Heat Pump











Air Handler Model: AUH-24UX3SDH2



Condensing Unit Model: AUWR-24U3SF2

KEY FEATURES

Air Handler Features

- ☐ Highly efficient totally enclosed ECM motor.
- External static pressure: 0.80 In.W.C. for 2Ton-5Ton.
- Multi-position installation: horizontal (left or right), vertical (up or down).
- □ Optional electric heat kit for additional heat capacity.
- ☐ High anti-corrosion coils.
- □ Universal 24V 3rd party thermostat is available.

Condensing Unit Features

- Easy installation for new construction or retrofit application. Compatible with most of other brands air handler or A-coil. No need additional 24V interface module.
- Quieter outdoor with variable speed compressor.
- □Low operating temp: -13°F(-25 °C) for heating, and 5 ° F(-15 ° C) for cooling.
- ☐ Standard with Base Pan Heater to melt the ice and snow.
- □ Rating with Aspen indoor units in AHRI: LEW30E4, LEW30F4, LEM36E4, LEM24I4



ESP - Air Flow Table

Airflow performance data is based on cooling performance with a coil and no filter in place. Check the performance table for appropriate unit size selection. External static pressure should stay within the minimum and maximum limits shown in the table below in order to ensure proper cooling, heating ,and electric heating operation.



Bold outlined areas represent airflow outside of the required 300-450 cfm/ton range.

External Static Pressure in.H2O[KPa] Handler **Motor Speed** Model 0[0] 0.1[0.02] 0.18[0.045] 0.3[0.07] 0.4[0.1] 0.5[0.12] 0.6[0.15] 0.7[0.17] 0.8[0.20] Tap(1) CFM Watts Setting CFM Tap(2) Watts 24K CFM Tap(3)

Air Flow Table

Electric Heater

Watts

CFM

Watts

Tap(4)

Air Handler	Electric Heat		Circuit acity	Brea	use or aker Ampacity		Fan Spo	eed Tap	
Model	(kW)	230VAC	208VAC	230VAC	208VAC	2	3	4	5
	HS-EH5	28.3	25.9	30	30	•	•	•	•
24K BTU	HS-EH75	40.7	37.2	45	40	×	•	•	•
	HS-EH10	53.2	48.5	60	50	×	×	•	•



Technical Spec.

PERFORMANCE DATA

Power supply	Ph-V-Hz	208-230V,1Ph,60Hz
Cooling		
Capacity	Btu/h	22000
Input	W	2180
Capacity(min-max)	Btu/h	6700-26000
EER2	Btu/w	10.1
SEER2	Btu/w	16.5
<u>Heating</u>		
Capacity	Btu/h	23000
Input	W	1980
Capacity(min-max)	Btu/h	6700-26000
COP2(47°F)	W/W	3.4
HSPF2	Btu/w	9.0
COP @ 5F (@Max. Capacity)	W/W	2.1
<u>Electrical</u>		
MINIMUM CIRCUIT AMPACITY	Α	3.3
MAX. FUSE	Α	10
Connection wiring		outdoor3x12,Indoor3x16 AWG
Compressor		
Туре		Twin ROTARY
Rated current(RLA)	Α	11
Locked rotor Amp(LRA)	Α	
Thermal protector		
Thermal protector position		
Refrigerant oil/oil charge	ml	VG74 /670
SYSTEM DATA		
Design pressure	PSIG	550/240
Refrigerant type	oz	R410A/70.5
Refrigerant precharge	ft	25
Additional charge per ft.	oz	0.38
Liquid side/ Gas side	mm(in)	Ф9.52/Ф15.88(3/8'/5/8')
Max. refrigerant pipe length	ft	164
Max. difference in level	ft.	98
<u>ESP</u>		
ESP range	ln. wg.	0-0.8 (0-200)



Technical Spec.

INDOOR UNIT

DATA

Indoor fan motor		
Model		ZWK702B006073
Туре		DC
Input		1/3
RLA	А	2.4~2.6
LRA	А	
Winding Resistance	Ω	
Capacitor	uF	
Speed(Hi/Mi/Lo)	r/min	350~1400
Air flow & Noise level	·	
Indoor air flow (Hi/Lo)	CFM	800
Indoor noise level (Hi/Lo)	dB(A)	55
Indoor unit		
Dimension(W*H*D)	inch	19-5/8 × 46-1/8 × 21-5/8
Packing (W*H*D)	inch	22-1/2×49-5/8×25-3/8
Net/Gross weight	lbs.	135.5/158.6
OUTDOOR UNIT DATA	,	

Outdoor fan motor		
Model		ZWK511A805001
Туре		DC
Input		60
RLA	A	0.7
LRA	A	
Winding Resistance	Ω	
Capacitor	uF	
Speed	r/min	880
Air flow & Noise level		
Outdoor air flow	CFM	1825
Outdoor noise level	dB(A)	54
Outdoor unit		

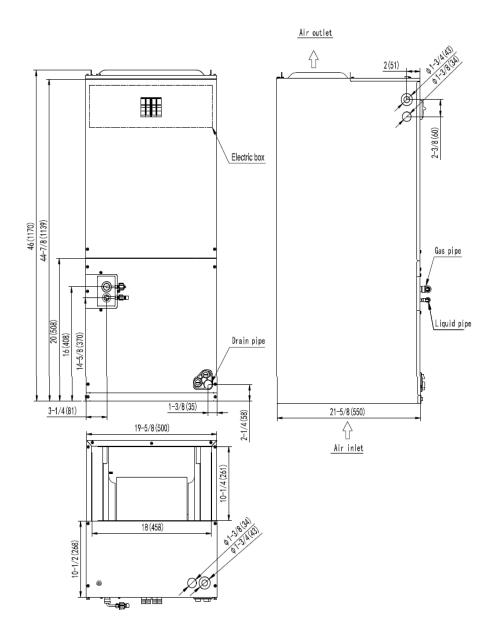
Dimension(W*H*D)	inch	33-7/8×26-3/8×12-1/4
Packing (W*H*D)	inch	39×28-3/4×17-3/4
Net/Gross weight	lbs.	112.4/121.3

Operation temperature

Indoor(cooling/ heating)	Deg. F	62~90/32~86
Outdoor(cooling/heating)	Deg. F	5~118/ -4~75

DIMENSIONAL DRAWING Air Handler

Unit: inch(mm)





DIMENSIONAL DRAWING Condensing Units

Unit: inch(mm)

