

Hisense

Hi-PAK

**Packaged Heat Pump SEER2 18.50 and HSPF2 8.50
24,000 BTU/H Cooling Capacity and 24,000 BTU/H Heating Capacity**

Model

AR-24U3R25U

Job Name:

Location:

Date:

Engineer:

Submitted to:

Submitted by:

Approval:

Construction:

Unit #:

Reference:

Drawing #:

Key Features:

*R32 Low GWP Refrigerant

Environmentally friendly and low cost

*24V Thermostat Connection

No adapter or proprietary controls required

Connect to all 24V thermostats (ex: Nest, Ecobee, Honeywell) or Hisense Smart Thermost

Enhanced comfort levels:

The fully variable-speed DC fan with static pressure adaptive technology delivers efficient, quiet operation and powerful airflow

The high-efficiency inverter compressor can adjust to perfectly cool or heat your home using minimal energy for maximum comfort

*Reliability and Stability

Corrosion Protection to ASTM B117 Standard: 2000 hours salt spray rating for Condenser Coil and 500 hours salt spray rating for exterior cabinet

Drain pan is made of stainless steel for excellent corrosion resistance

*Up to 0.8" WC Maximum ESP

*Multiple installation options



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SPECIFICATIONS

AHRI Certificate #		216760018			
Model		AR-24U3R25U			
EFFICIENCY			INDOOR UNIT SPECIFICATIONS		
SEER2	Btu/ (W.h)	18.5	Indoor fan motor	Model	ZKSN-560-8-53
EER2	Btu/ (W.h)	11		Type	DC
HSPF2	Btu/ (W.h)	8.5		Motor output (HP)	3/4
COP @ 47°F	W/W	3.43		RLA (A)	5.2
COP @ 5°F	W/W	1.9		speed (r/min)	1310
Cooling Performance			Indoor Airflow rate		
*Rated Capacity	BTU/H	24000	Cooling (H)	CFM	823
Min.-Max. Capacity	BTU/H	13300-31000		m3/h	1400
Capacity @ 115°F	BTU/H	19300	External Static Pressure		
Rated Power Input	W	2182	Rated	In.W.C.(Pa)	0.58 (145)
*Testing Conditions:Indoor: 80°F DB / 67°F WB Outdoor: 95°F DB / 75°F WB.			Range	In.W.C.(Pa)	0-0.8 (0-200)
			Drain Pipe Size	NPT	3/4
			Fin and Tube Type	Hydrophilic aluminum/copper	

Heating Performance		
*Rated Capacity	BTU/H	24000
Min.-Max. Capacity	BTU/H	11000-36000
Rated Power Input	W	2050
Capacity @ 17°F Rated	BTU/H	20000
Capacity @ 17°F Max	BTU/H	26000
Capacity @ 5°F Rated / Max	BTU/H	24000
* Testing Conditions: Indoor: 70°F DB / 60°F WB Outdoor: 47°F DB / 43°F WB		

ELECTRICAL DATA		
System power supply		
Voltage, Hertz,Phase	V/ph/HZ	208/230V,60Hz,1Ph
Available Voltage Range	V	187 - 253
Cooling / Heating Rated Amps	A	9.5/8.91
System MCA	A	27
System MOCP	A	30
MCA - Minimum Circuit Ampacity		
MOP - Maximum Overcurrent Protection		

Refrigerant		
Refrigerant Type	/	R32
Refrigerant Pre-charged Amount	oz(kg)	77.6(2.2)

Standard Operating Range(°F /°C)	
Outdoor Cooling °F (°C)	50 to 125 (10 to 52)
Outdoor Heating °F (°C)	-4 to 75 (-20 to 24)

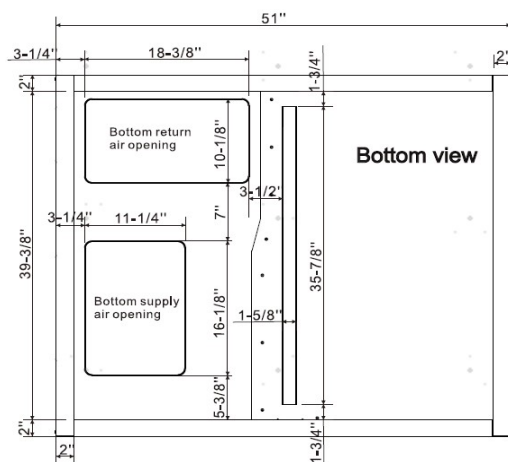
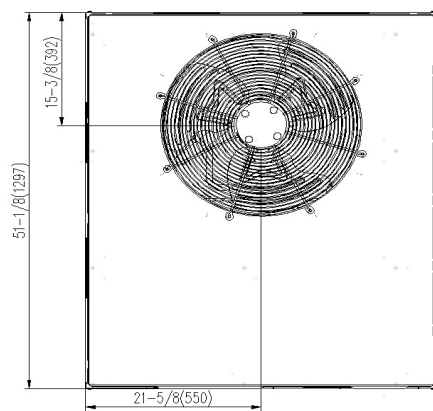
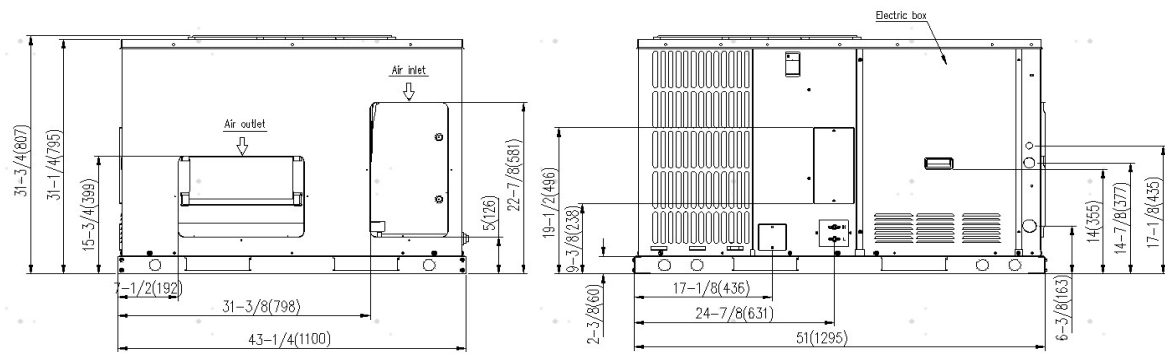
Specifications are subject to change without notice

INDOOR UNIT SPECIFICATIONS		
Indoor fan motor	Model	ZKSN-560-8-53
	Type	DC
	Motor output (HP)	3/4
	RLA (A)	5.2
speed (r/min)		1310
Indoor Airflow rate		
Cooling (H)	CFM	823
	m3/h	1400
External Static Pressure		
Rated	In.W.C.(Pa)	0.58 (145)
Range	In.W.C.(Pa)	0-0.8 (0-200)
Drain Pipe Size	NPT	3/4
Fin and Tube Type	Hydrophilic aluminum/copper	

OUTDOOR UNIT SPECIFICATIONS:		
Compressor		
Type	/	Inverter Twin ROTARY
Model	/	KTF310D43UMT
Brand	/	GMCC
Capacity	Btu/h	34154
Input	W	2765
Rated current Amps (RLA)	A	5.38
Refrigerant Oil Type	/	VG74
Refrigerant Oil Amount	ml	1000
ODU Throttle Type	/	EEV
Outdoor Fan Motor		
Model	/	ZWB4710L23A
Type/Qty	/	DC/1
Motor output	HP	3/8
Speed	r/min	1100
Outdoor Airflow Rate		
Cooling (H)	CFM	3412
	m3/h	5800
Sound Pressure Level		
High	dB (A)	75
Fin Type /Tube Type	Hydrophilic aluminium/ Copper	
Net Dimensions (W×D×H)	In	51×43-1/4×31-1/4
	mm	1295×1100×795
Package (W×D×H)	In	51-1/8×43-1/2×33-3/4
	mm	1300×1105×856
Net Weight	Lbs.	404.5
	kg	183.5
Shipping Weight	Lbs.	411.5
	kg	186.6

Unit Dimension

Inch (mm)



Airflow 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.

Model Number	Motor Speed		SCFM						
			External Static Pressure-Inches W.C.[kPa]						
			0.1[.02]	0.2[.05]	0.3[.07]	0.4[.10]	0.6[.145]	0.7[.170]	0.8[.20]
24K	Q3	SCFM	780	810	815	820	823	850	900
		Watts	122	151	189	225	269	300	336
	Q4	SCFM	830	862	890	920	940	960	970
		Watts	129	161	199	239	285	321	359
	Q5	SCFM	910	940	970	990	1020	1030	1040
		Watts	146	181	220	262	314	349	393

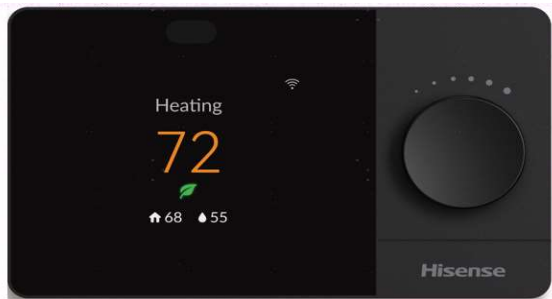
[1] Required 340-450CFM/ton range.

[2] CFM means Standard Cubic Foot per Hour.

[3] Airflow based on Air Handler Unit operates at 230V with no electric heater kit and no filter. Airflow at 208V is approximately the same as 230V.

Accessories

Optional		
Controller	24V Thermostat	HS-WC03
Heater Kit	5 KW-240V-1P / 1 Stage	WHPU0502B SP
	7.5 KW-240V-1P / 1 Stage	WHPU0752B SP
	10 KW-240V-1P / 1 Stage	WHPU1002B SP



Functions	Descriptions
System Modes	Off, Heat,Cool,Auto,Emergency
Fan	Auto,On
Operation states	ECO,Comfort,Scheduling.User can switch between these states via local control&Mobile App
Room Temperature Display	Show the current room temperature
Room Humidity Display	Show the room humidity
Minimum Compressor Off Time	Aminimum off time to make sure compressor cannot be started immediately after de-energized
WIFI Connection	For OTA and remote control
Filter Change Reminder	Reminds to change filter based on timer
Knob Lock	Lock local control of thermostat
Early -On	To active heat \cool equipment earlier dynamically and in time to make sure room temperature will reach to the scheduled temperature of next period on time
Terminal	Definition
C	AC 24V Common
RC	AC 24V power supply (transformer)
RH	AC 24V power supply (heating transformer)
W1	Heat 1 for Furnace/Boiler; Heat 1 for dual fuel
W2	Heat 2 for Furnace/Boiler; Auxiliary heat for heat pump
Y1	Cool 1 for AC; cool 1/heat 1 for heat pump
Y2	Cool 2 for AC; cool 2/heat 2 for heat pump
G	Fan output
O/B	Reverse (changeover) valve
Multi	Emergency heat, Heat 2 for dual fuel
S2	Outdoor sensor terminal 1/2
S2	Outdoor sensor terminal 2/2



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Warranty* Requires registration-some rescriptions apply
Due to continuous product improvements, specifications are subject to change without notice.
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