



Submittal Data Sheet

Condenser Model#: AC-I-60-INV-HP-3PH-PKG

60K R32 ROOFTOP PACKAGE UNIT DC INVERTER HEAT PUMP (3-Phase) SYSTEM

Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:

Unit UPC Product Code: 810175556000



UNIT SPECIFICATIONS

Compressor Type		DC Inverter Twin-rotary
Compressor Model		KTQ420D41SN5A1
Refrigerant Type		R32
Refrigerant Charge (oz/kg)		4.8 (169.3)
Refrigerant Oil		VG74
Refrigerant Oil Charge (mL)		1000
Outdoor Fan Motor Model		DQ-DRN-310-200-8-A
Outdoor Airflow (CFM)		4300
Indoor Fan Motor Model		DQ-ZKSD-560-10-5
Indoor Airflow (CFM)		1710
Noise level (dBA)		75
Dimension (W×D×H)	inch	51.57 x 44.80 x 51.42
	mm	1310 x 1138 x 1306
Package (W×D×H)	inch	52.28 x 45.43 x 51.65
	mm	1328 x 1154 x 1312
Net/Gross Weight	lbs	551 / 569
	kg	250 / 258

EFFICIENCY RATINGS

Cooling		Heating	
SEER2	18.5	HSPF2-4	8.8
EER2	10.6	COP	11.50

COOLING PERFORMANCE

Cooling (Btu/hr)	
Rated Capacity	55000
Standard Operating Range (°F/°C)	23°F ~ 125°F (-5°C ~ 52°C)
Rated Cooling Conditions:	Indoor: 80°F DB/67°F WB
	Outdoor: 95°F DB/75°F WB

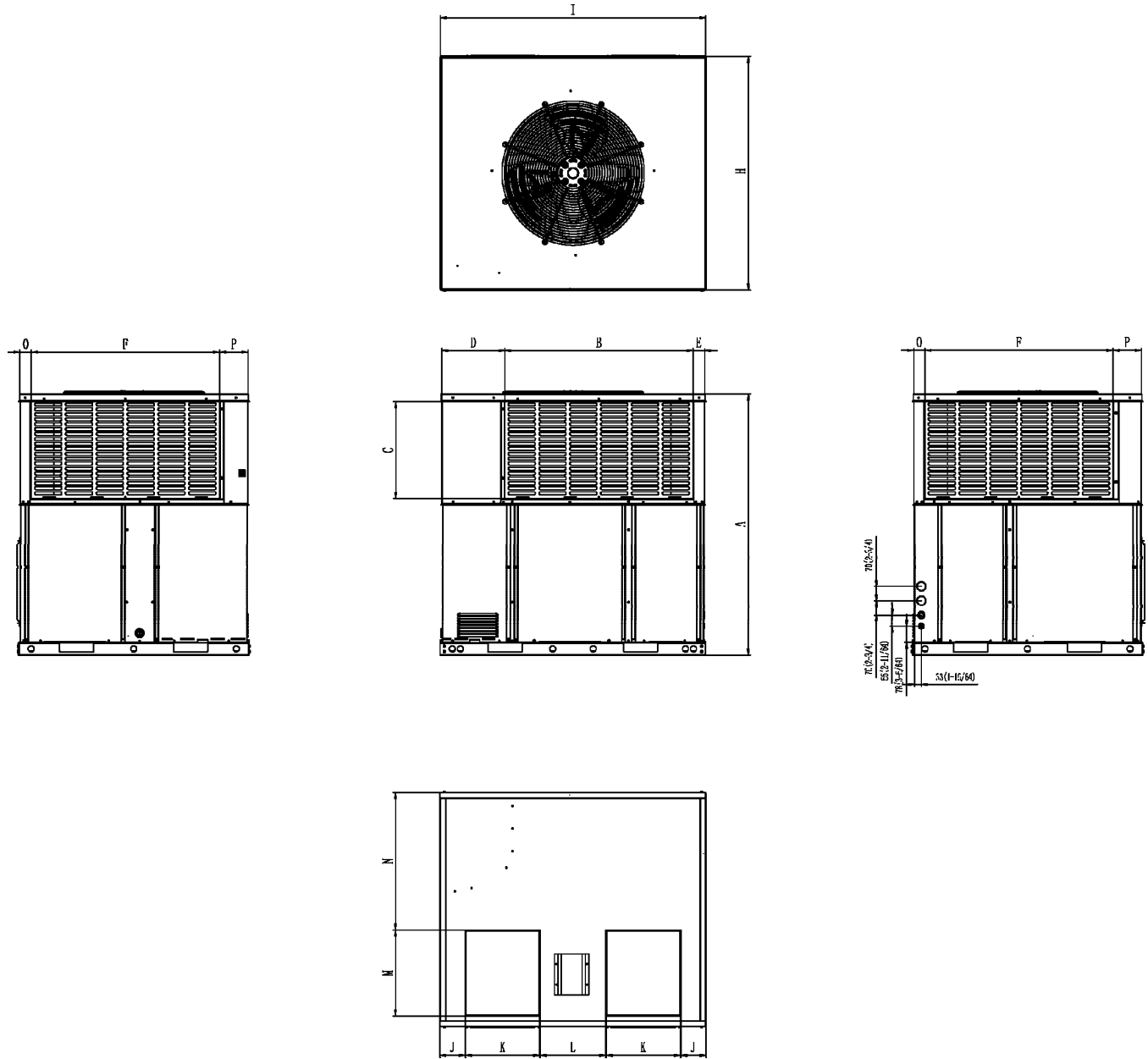
HEATING PERFORMANCE

Heating (Btu/hr)	
Rated Capacity	57000
1. @ 17°F Rated	48000
2. @ 5°F Rated: Capacity / COP	46000 (1.82)
Standard Operating Range (°F/°C)	-4°F ~ 86°F (-20°C ~ 30°C)
Rated Heating Conditions:	Indoor: 70°F DB/60°F WB
	Outdoor: 47°F DB/43°F WB
1. Rated Heating Conditions:	Indoor: 70°F DB/60°F WB
	Outdoor: 17°F DB/15°F WB
2. Rated Heating Conditions:	Indoor: 70°F DB/60°F WB
	Outdoor: 5°F DB/5°F WB

ELECTRICAL SPECIFICATIONS

Power Supply	208/230V, 60Hz, 3Ph
MCA	26.45
MAX. FUSE (MOP)	45
Communication Wiring	AWG 25×3 Shielded
Compressor RLA	15
Outdoor Fan Motor W	200
Outdoor Fan Motor RLA	2.1
Indoor Fan Motor RLA	5.4
Indoor Fan Motor W	560
System Power Input @ Cooling (W)	5189
System Power Input @ Heating (W)	4956
MCA: Min. circuit amps (A)	MOP: Max. Overcurrent Protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

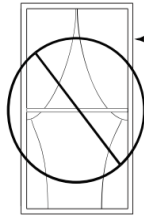
UNIT DIMENSIONS



Dimensions		Model		24K/36K		48K/60K	
				inch	mm	inch	mm
A	Model Height			46-47/64	1187	50-3/64	1271
B	Outdoor Coil Return Air Opening Width			35-3/4	906	36-17/32	928
C	Outdoor Coil Return Air Opening Height			15-7/16	392	15-7/16	392
D	Outdoor Coil Return Air Opening Side Clearance 1			12-9/16	319	12-9/16	319
E	Outdoor Coil Return Air Opening Side Clearance 2			2-31/64	63	2-51/64	71
F	Outdoor Coil Side Return Air Opening Width			24-23/32	628	36-17/32	928
II	Model Depth			35 3/64	890	44 51/64	1138
I	Model Width			50-45/64	1288	51-37/64	1310
J	Indoor Coil Return Air Opening Side Clearance			3-5/64	78	4-7/8	124
K	Indoor Coil Return? Air Opening Width			9-49/64	248	14-3/8	365
L	Indoor Coil Return Air Opening Both Clearance			21-13/16	554	12-23/32	323
M	Indoor Coil Return Air Opening Height			16-27/64	417	16-27/64	417
N	Indoor Coil Return Air Opening Top Clearance			16-11/32	415	26-11/32	669
O	Outdoor Coil Return Air Opening Back Clearance			2-33/64	64	2-31/64	63
P	Outdoor Coil Return Air Opening Front Clearance			7-51/64	198	5-25/32	147

UNIT INSTALLATION INSTRUCTIONS & CLEARANCE REQUIREMENTS

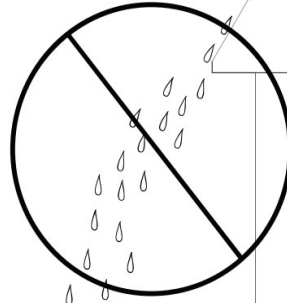
Avoid Install
Near Bedrooms



Min. 60" Unrestricted

Min. 24"
Access Panel

Min. 24"
Access Panel



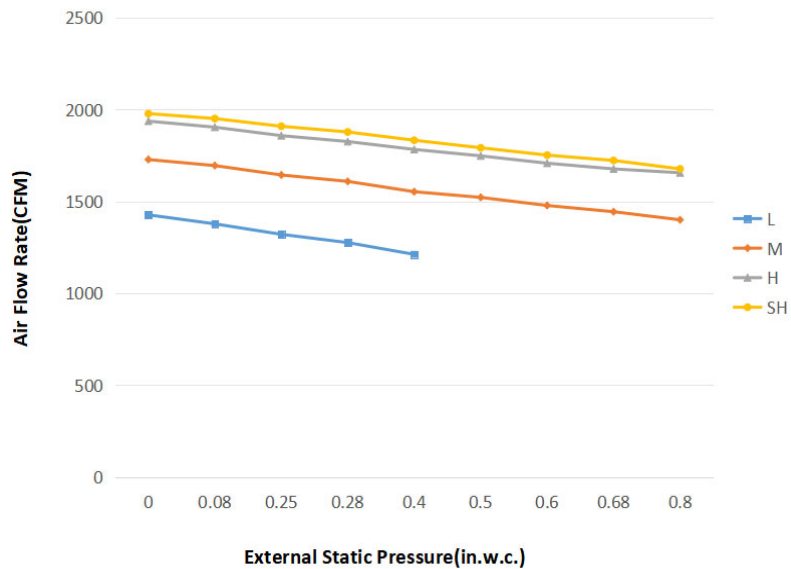
Min. 24"
Access Panel

Min. 12" to
Shrubbery

Supply Air Duct



INDOOR FAN PERFORMANCE



FEATURES

- DC inverter compressor
- R32 Refrigerant, environment friendly
- Refrigerant cooling PCB, high reliability
- Horizontal or downflow application
- Static pressure up to 0.80 In.W.G
- Optional Auxiliary heat kit up to 20kW
- Easy Maintenance
- Multiple control options available:
 - Wired controller
 - Wired controller with built-in WiFi
 - Third-Party 24V Thermostat
- Crankcase heater equipped as standard

