

DUCTED CENTRAL SPLIT SYSTEM AIR CONDITIONER / HEAT PUMP

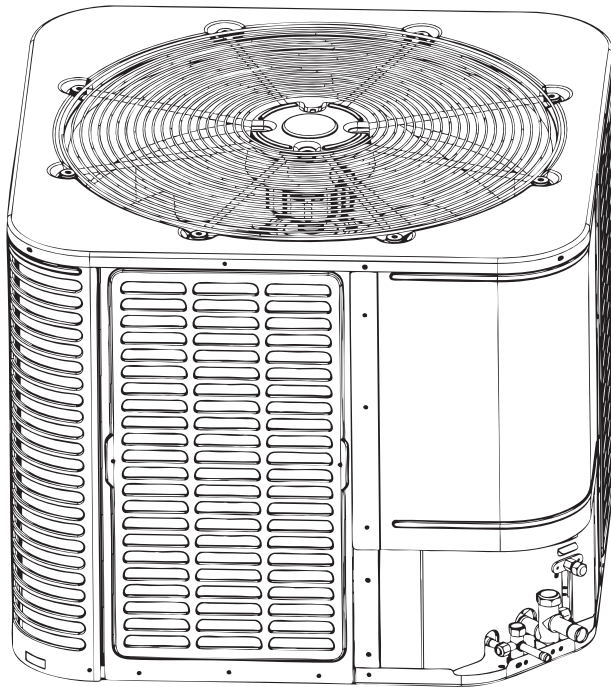
PIONEER®

VERTEX™

DYC-18 Inverter Series

For 24,000-60,000 BTU/hr Systems

Condensing Unit (R-454B) - YD Outdoor (2/3 Ton & 4/5 Ton)



Models:

-YD2436GCSI18RD

-YD4860GCSI18RD

Product Specifications



*Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and heat pumps must be matched with appropriate coil components to meet Energy Star. Ask your Contractor for details or visit www.energystar.gov.



REV250618

Product Nomenclature for Central-Split Condensing Units

Y D 24 36 G C S I 18 R D

Version Code

Compressor Type

R: Standard Rotary
S: Scroll
T: Reciprocating
U: Liquid Injection Rotary

Average SEER2 Rating (Efficiency)

Technology

A: On-Off
I: DC Inverter

Refrigerant

A: R-22
F: R410a
D: R-134a
U: R32
S: R454-b

Assembly Line

Operating Voltage

A: 110-120/1/60
G: 208-230/1/60
W: 220-240/1/50
H: 380-420/3/60

Upper-End Capacity (MBTU/HR)

Lower-End Capacity (MBTU/HR)

Airflow Exhaust Design

N: Side-Discharge
D: Top-Discharge

Product Type

A: Cooling-Only
Y: Heat Pump

Introduction

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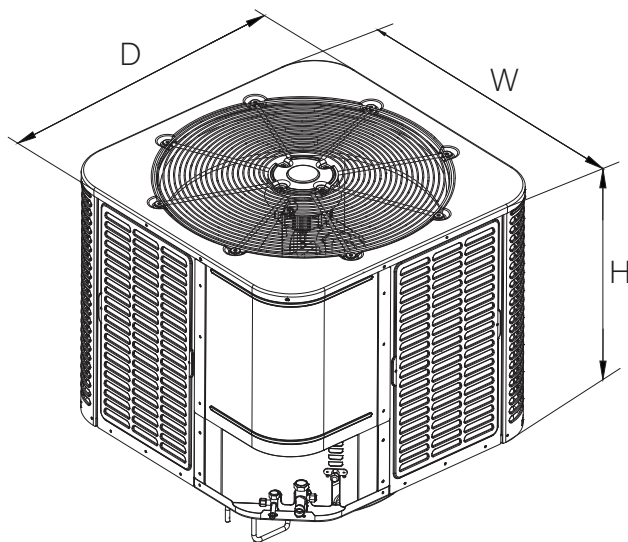
Product Specifications

	Unit	YD2436GCSI18RD	YD4860GCSI18RD
Capacity Data			
Rated Cooling Capacity, Low Configuration (Range)	BTU/h	24,000 (13,500 ~ 31,400)	47,500 (32,900 ~ 57,300)
Rated Cooling Capacity, High Configuration (Range)	BTU/h	34,000 (22,300 ~ 41,900)	55,500 (37,600 ~ 67,400)
Rated Heating Capacity, Low Configuration (Range)	BTU/h	24,000 (10,200 ~ 35,900)	48,000 (15,200 ~ 65,500)
Rated Heating Capacity, High Configuration (Range)	BTU/h	34,200 (12,600 ~ 48,900)	57,000 (18,000 ~ 72,500)
Electrical Data			
Power Supply	V/Ph/Hz	208/230 VAC, 1, 60	208/230 VAC, 1, 60
Min/Max Voltage	VAC	187/253	187/253
Minimum Circuit Ampacity	A	20	30
Maximum Circuit Breaker	A	30	45
Maximum Fuse Size	A	45	45
Rated Cooling Mode Consumption, Low Configuration	W	1,819	4,145
Rated Cooling Mode Consumption, High Configuration	W	2,864	5,549
Rated Heating Mode Consumption, Low Configuration	W	1,957	3,580
Rated Heating Mode Consumption, High Configuration	W	2,997	4,900
Sound Level			
Maximum at 100%	dB(A)	76	79
Compressor			
Type	-	Twin Rotary	Twin Rotary
Rated Current (RLA)	A	12.8	20
LRA	A	52	58.1
Fan Motor			
Type	-	DC	DC
Airflow	CFM	3,900	4,440
FLA	A	1.8	1.8
Refrigeration System			
Liquid Line Size (OD)	inches	3/8	3/8
Suction Line Side (OD)	inches	3/4	7/8
Connection Type	-	Sweat	Sweat
Factory Charge (R454-B)	Oz.	116.4	155.2
Performance			
Operating Temperatures (Cooling)	°F	5 ~ 131	5 ~ 131
Operating Temperatures (Cooling)	°F	-4 ~ 86	-4 ~ 86
Maximum Lineset Length	Feet	100	100
Maximum Elevation Difference Between Units	Feet	50	50
Control System			
Analog	Type	Standard 24V Thermostat	Standard 24V Thermostat
Digital	Type	RS485 Communications	RS485 Communications
Internet	Type	Wireless Accessible	Wireless Accessible

Dimensions

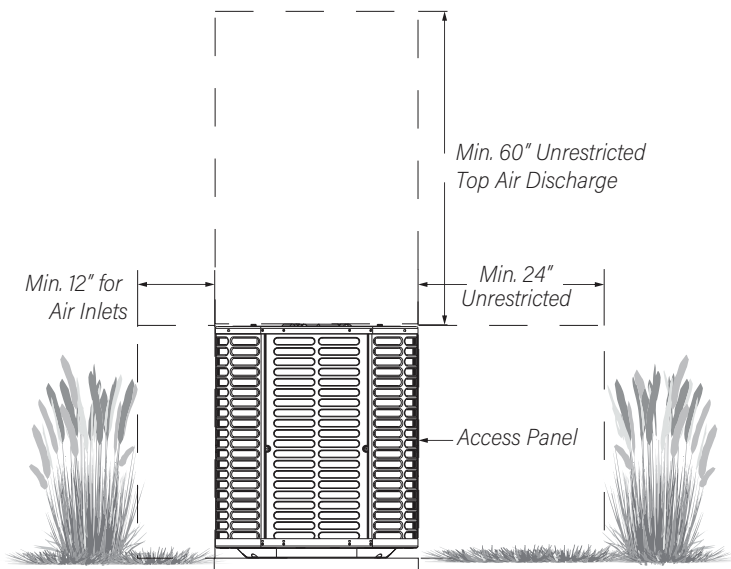
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Product Dimensions and Required Minimum Clearances



System Appearance May Vary

Central Split Heat Pump	Dimensions (Inches) [mm]		
Model Number	D	W	H
YD2436GCSI18RD	29-1/2 [750]	29-1/2 [750]	25 [635]
YD4860GCSI18RD	29-1/2 [750]	29-1/2 [750]	32-7/8 [835]



Performance Data

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AHRI 210/240 Performance Data

SEER2 (Seasonal Energy Efficiency Ratio 2023) Data

Series	System Type	Model Number (Full Set)	Model Number (Outdoor Unit)	Model Number (Coil/Air Handler)	Cooling Capacity ^[1]	SEER2	EER2	HSPF2	C.O.P. (47 °F) ^[2]	Energy Star?	AHRI Number
DYC-18 (Vertex)	Variable Speed Ducted Heat Pump (24V or RS485)	DYC024GCSI18RD	YD2436GCSI18RD	DC024GCSICDHRT	24000	20	13.3	9.4	3.59	Yes ^[3]	217048497
		DYC036GCSI18RD		DC036GCSICDHRT	34000	18.6	11.7	9	3.35	Yes ^[3]	217048498
		DYC048GCSI18RD	YD4860GCSI18RD	DC048GCSICDHRT	47500	17.5	11.3	9	3.93	Yes ^[3]	217048499
		DYC060GCSI18RD		DC060GCSICDHRT	55500	17	10	8.6	3.41	No ^[4]	217048500

1. Configuration via dip-switches may be required during installation.
2. At 5°F, the Heating Coefficient of Performance (C.O.P.) is 2.1 for all combinations.
3. Combinations with "Energy Star? = Yes" means they meet Energy-Star 6.1 standard, **AND** also meet Energy Star v6.1 Cold Climate Standard.
4. Combinations with "Energy Star? = No" do not attain Energy-Star 6.1, but **DO** still meet the Energy Star v6.1 Cold Climate Standard.

Warranty Terms and Period

This high quality system is eligible for up to 10 years limited warranty on the compressor, and 7 years on other internal parts. To qualify for this warranty, the system must be installed within 90 days and registered properly. All other installations that are unregistered qualify for only 1 year parts/compressor warranty.

Complete warranty details are available with the vendor or online at <https://www.pdhvac.com/support/warranty/>.

The design and specifications of this product are subject to change without prior notice as development continues. Consult with the sales agency or manufacturer for details. Refer to the equipment nameplate for all other applicable specifications.



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