

Job Name: \_\_\_\_\_  
Location: \_\_\_\_\_  
Engineer: \_\_\_\_\_  
Submitted to: \_\_\_\_\_  
Submitted by: \_\_\_\_\_  
Reference: \_\_\_\_\_

Date: \_\_\_\_\_  
Approval: \_\_\_\_\_  
Construction: \_\_\_\_\_  
Unit #: \_\_\_\_\_  
Drawing #: \_\_\_\_\_



**OUTDOOR UNIT FEATURES:**

- ◆ Reliable and stable stepless inverter-driven technology.
- ◆ Anti-frost design includes an expanded heat exchanger, which provides a larger surface area for higher heat exchanging efficiency and smooth condensate drainage.
- ◆ Static pressure of the outdoor unit up to 0.44 in.w.g.
- ◆ Intelligent defrosting mode utilizes 3 sensors to determine the optimal time to melt and remove frost from the outdoor unit.
- ◆ 360°F refrigerant cooling technology safely and efficiently dissipates heat from the main PCB, inverter module, and outdoor unit electrical box.



<b>Model name</b>			<b>CHV6-456URB</b>	
<b>Unit group configuration</b>			2 x CHV6-144URB 1 x CHV6-168URB	
<b>Nominal tonnage</b>		RT	38	
<b>Cooling capacity</b>	Nominal capacity	Btu/h	435,500	
	Input power (Ducted/Non-ducted)	kW	39.97/36.28	
	EER (Ducted/Non-ducted)	Btu/h	10.88/12.01	
<b>Heating capacity</b>	Nominal capacity	Btu/h	470,000	
	Input power (Ducted/Non-ducted)	kW	42.43/38.65	
	COP 47°F (Ducted/Non-ducted)	W/W	3.25/3.57	
	Low temperature heating capacity (17°F)	Btu/h	325,000	
	Input power 17°F	kW	42.27/39.18	
	COP 17°F (Ducted/Non-ducted)	W/W	2.25/2.43	
<b>Power supply</b>		V, Ph, Hz	208/230V, 3Ph, 60Hz	
<b>Max/Min power supply</b>		V	253 / 188	
<b>Electrical parameters</b>	MCA	A	60.1+60.1+62.3	
	MOP	A	80+80+80	
<b>Min/Max number of connectable indoor units</b>		#	1/64	
<b>Total indoor unit capacity</b>		%	50~150% to outdoor unit capacity	
<b>Dimensions (H x W x D)</b>		in	68 1/8 x 53 5/32 x 29 17/32 + 68 1/8 x 53 5/32 x 29 17/32 + + 68 1/8 x 63 x 29 17/32	
<b>Connection pipe diameter</b>	<b>Heat recovery operation system</b>	Low pressure gas pipe	in	1-1/2"
		High/Low pressure gas pipe	in	1-1/4"
		Liquid pipe	in	3/4"
	<b>Heat pump operation system</b>	Low pressure gas pipe	in	1-1/2"
		Liquid pipe	in	3/4"
<b>Refrigerant</b>			R410A	
<b>Compressor</b>			Scroll Comp	
<b>Compressor quantity</b>			2+2+2	
<b>Refrigerant charge before shipment</b>		lbs	21.6+21.6+25.4	
<b>Weight</b>	Net weight	lbs	796+796+858	
	Gross weight	lbs	864+864+930	
<b>Total piping length</b>		ft	3,281	
<b>Height difference</b>	Maximum below unit	ft	164 (295* see note)	
	Maximum above unit	ft	131 (295* see note)	
	Between IDUs	ft	49 (98* see note)	

\* Note: maximum height difference can be expanded with assistance from C&H technical support team.

Fan motor	Quantity	#	2+2+2
	Air flow rate	CFM	9,430+9,430+12,360
Sound pressure level		dB(A)	65
Operation range	Cooling	°F DB	14 ~ 126
	Heating	°F DB	-13 ~ 62

**NOTES:**

- The above cooling and heating capacities show the capacities when the outdoor unit is operated with the 100% rating of indoor units, Cooling operation conditions: indoor air inlet temperature: 80°F DB 67°F WB, Outdoor air inlet temperature: 95°F DB, Piping length: 25ft., Piping lift: 0ft..  
Heating operation conditions: Nominal heating condition, indoor air inlet temperature: 70°F DB, outdoor air inlet temperature: 47°F DB 43°F WB.  
Heating operation conditions: Low temp. heating condition, indoor air inlet temperature: 70°F DB, outdoor air inlet temperature: 17°F DB 15°F WB.
- Rated capacity and efficiency are certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at [www.ahridirectory.org](http://www.ahridirectory.org).
- The above noise values are measured in the anechoic chamber without reflected echo. Measurement point: 3.3ft from the service cover surface and 4.9ft from floor level.
- The final appearance of outdoor units is subject to the actual products.

Unit: inch (mm)

