

# Haier®



## Comfort You Can Count On

13 SEER Condensing Units D1 & D2



# Outdoor Condensing Unit

## Quality Features:

- High efficiency, high reliability compressors.
- Totally enclosed, permanently lubricated fan motor.
- Full range of 13 SEER products from 1.5 to 5 ton.
- ARI certified and rated in accordance with DOE Standard.
- Full metal jacket protects the coil from damage.
- Liquid line filter drier.
- Reduced annual electric consumption, over lower SEER products.

## Quality Construction:

- Heavy gauge galvanized steel construction.
- Powder paint provides superior finish and rust/corrosion resistance.
- Elevated base pan rails reduces rust and corrosion.
- Drainage holes prevent standing water in base pan, further reducing corrosion.

## Quality Coils:

- Haier "High Efficiency" coils.
- Lanced/enhanced aluminum fins maximize heat transfer.
- Internally grooved copper tubing for superior performance.

## Quality Serviceability / Maintenance:

- Rigorous leak detection tests at the factory to ensure a leak-free construction.
- Brass suction and liquid line service valves with sweat connections.
- Removeable access panels for service and cleaning.
- Controls and compressor are accessible by removal of the top and side service panels.
- Top cover can be easily removed.

## Quality Warranty:

- 10-year limited compressor warranty
- Parts warranty - 10 year on D1 models and 5-year on D2 models.

<b>H</b>	Brand symbol-H: Haier
<b>C</b>	System type-C: Air conditioner
<b>24</b>	Nominal capacity in (000) Btu/h
<b>D</b>	SEER designation D=13
<b>1</b>	Design series.1-1st Generation
<b>V</b>	Electric: V;208-230-1-60
<b>A</b>	Body Style
<b>R</b>	Reserved
	Example: HC24D1VAR

# Model Specifications

MODEL NUMBER		HC18D1VAR	HC24D1VAR	HC30D1VAR	HC36D1VAR	HC42D1VAR	HC48D1VAR	HC60D1VAR
Nominal capacity	(BTU/h)	18,000	24,000	30,000	36,000	42,000	48,000	60,000
Power supply	V/Ph/Hz	208-230 / 1 / 60	208-230 / 1 / 60	208-230 / 1 / 60	208-230 / 1 / 60	208-230 / 1 / 60	208-230 / 1 / 60	208-230 / 1 / 60
Voltage range	V	197-253	197-253	197-253	197-253	197-253	197-253	197-253
Operating current amps.	A	7.5	9.7	11.1	13.8	15	19.6	21.6
Min.Wire ampacity	A	8.6	11.6	12.4	15.9	17.7	21.8	33.7
Max.Amps.of fuse or HACR Type Circuit Breaker	A	15	20	20	25	30	35	55
Compressor	Type	Reciprocating	Reciprocating	Reciprocating	Reciprocating	Reciprocating	Reciprocating	Scroll
Rated Load Amps.	A	6.2	8.6	9.2	11.7	13	15.8	25
Locked Running Amps.	A	41	60	60	73	85	90	150
Fan Motor	Type	psc	psc	psc	psc	psc	psc	psc
Rated Load Amps.	A	0.86	1.1	1.1	1.3	1.43	2	2.5
Rated HP		1/8	1/6	1/6	1/4	1/3	1/3	1/2
Nominal RPM		1000	840	840	850	1070	960	1000
Fan Blades	# blades-Dia.	3-18 "	3-23 "	3-23 "	3-24 "	3-23 "	3-24 "	3-24 "
Normal CFM		1350	1800	2100	2700	3200	3600	4000
Outdoor coil	Type	Enhanced aluminum fins and grooved copper tubes						
Area	Sq.Ft.	10.8	16	18.4	18.4	20.85	18.4	23.3
ROWS-FPI		1-21	1-21	1-21	1-21	1-21	2-16	2-21
Tube diameter	Inch	3/8 "	3/8 "	3/8 "	3/8 "	3/8 "	3/8 "	3/8 "
Refrigerant line sizes	Liquid (in)	3/8"	3/8 "	3/8 "	3/8 "	3/8 "	3/8 "	3/8 "
	Vapor (in)	3/4 "	3/4 "	3/4 "	7/8 "	7/8 "	7/8 "	7/8 "
Refrigerant charge R22	Oz.	87	102	122	134	148	178	260

MODEL NUMBER		HC18D2VAR	HC24D2VAR	HC30D2VAR	HC36D2VAR	HC42D2VAR
Nominal capacity	BTU/h□	18,000	24,000	30,000	36,000	42,000
Power supply	V/Hz/Ph	208/230 - 1 - 60	208/230 - 1 - 60	208/230 - 1 - 60	208/230 - 1 - 60	208/230 - 1 - 60
Voltage range	V	197-253	197-253	197-253	197-253	197-253
Operating current amps.	A	7.1	9.4	11.6	14.3	15.7
Min.Wire ampacity	A	7.6	10.9	14.0	16.4	18.1
Max.Amps.of fuse	A	15	20	25	30	30
Compressor	Type	Reciprocating	Reciprocating	Reciprocating	Reciprocating	Reciprocating
Rated Load Amps.	A	5.4	8.0	10.1	11.8	13.2
Locked Running Amps.	A	36.0	53.5	61.0	78.0	78.0
Fan Motor	Type	psc	psc	psc	psc	psc
Rated Load Amps.	A	<b>0.86</b>	<b>0.86</b>	<b>1.4</b>	<b>1.6</b>	<b>1.6</b>
Rated HP		<b>1/8</b>	<b>1/8</b>	<b>1/4</b>	<b>1/3</b>	<b>1/3</b>
Nominal RPM		1000	1000	<b>1075</b>	<b>1120</b>	<b>1120</b>
Fan Blades	Dia.-# blades	3-18"	3-18"	3-18"	4-18"	4-18"
	Normal CFM	2000	2000	2350	2840	2840
Outdoor coil	Type	Enhanced aluminum fins and grooved copper tubes				
Area	Sq.Ft.	8.8	10.2	10.3	11.9	13.5
Rows -FPI		1-21	1-21	2-20	2-20	2-20
Tube diameter	Inch	5/16"	5/16"	5/16"	5/16"	5/16"
Refrigerant line	Liquid (in)	3/8"	3/8"	3/8"	3/8"	3/8"
	Vapor (in)	3/4"	3/4"	3/4"	7/8"	7/8"
Refrigerant charge R22	Oz	85.0	85.0	124.0	138.0	141.0

\*Due to constant product improvement, all specifications are subject to change without prior notice.

# Cooling

Outdoor	Indoor	ARI Certified Performance			Cooling capacity with different outdoor temperature							
		Capacity	SEER	CFM	80	85	90	95	100	105	110	115
HC18D1VAR	HB2400VD1M20	17500	13	670	19775	19197	18550	17500	17237	16975	16712	16450
HC24D1VAR	HB2400VD1M20	24000	13	900	27120	26328	25440	24000	23640	23280	22920	22560
HC30D1VAR	HB3600VD1M22	28000	13	1125	31640	30716	29680	28000	27580	27160	26740	26320
HC36D1VAR	HB3600VD1M22	35000	13	1240	39550	38395	37100	35000	34475	33950	33425	32900
HC42D1VAR	HB4800VD1M22	42000	13	1480	47460	46074	44520	42000	41370	40740	40110	39480
HC48D1VAR	HB4800VD1M22	46000	13	1650	51980	50462	48760	46000	45310	44620	43930	43240
HC60D1VAR	HB6000VD1M22	55000	13	1850	62150	60335	58300	55000	54175	53350	52525	51700

Outdoor	Indoor	ARI Certified Performance			Cooling Capacity with different outdoor temperature							
		Capacity	SEER	CFM	80	85	90	95	100	105	110	115
HC18D2VAR	HB2400VD1M20	17000	13	670	19210	18649	18020	17000	16745	16490	16235	15980
HC24D2VAR	HB2400VD1M20	23000	13	900	25990	25231	24380	23000	22655	22310	21965	21620
HC30D2VAR	HB3600VD1M22	29000	13	1125	32770	31813	30740	29000	28565	28130	27695	27260
HC36D2VAR	HB3600VD1M22	35000	13	1240	39550	38395	37100	35000	34475	33950	33425	32900
HC42D2VAR	HB4800VD1M22	41000	13	1480	46330	44977	43460	41000	40385	39770	39155	38540

The product should be installed by licensed professionals with a knowledge of industry practices.

Before proceeding with installation, please refer to installation instruction packaged with each shipped unit. It is the installers responsibility for compliance with all federal, state, provincial and local codes regulations.



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# Dimensions and Weights

Model Number		Dimensions			Weights
		W(in)	D(in)	H(in)	Lbs
HC18D1VAR	Unit	23 3/8	23 3/8	32 3/16	156
	Shipping	25	25	33 1/8	167
HC24D1VAR	Unit	30 5/8	30 5/8	28 1/4	194
	Shipping	32 1/2	32 1/2	29 1/2	209
HC30D1VAR	Unit	30 5/8	30 5/8	32 3/16	198
	Shipping	32 1/2	32 1/2	33 1/2	216
HC36D1VAR	Unit	30 5/8	30 5/8	32 3/16	203
	Shipping	32 1/2	32 1/2	33 1/2	220
HC42D1VAR	Unit	30 5/8	30 5/8	36 1/8	231
	Shipping	32 1/2	32 1/2	37 1/2	249
HC48D1VAR	Unit	30 5/8	30 5/8	32 3/16	244
	Shipping	32 1/2	32 1/2	33 1/2	262
HC60D1VAR	Unit	30 5/8	30 5/8	40	271
	Shipping	32 1/2	32 1/2	41 3/8	291

Model Number		Dimensions			Weights
		W(in)	D(in)	H(in)	Lbs
HC18D2VAR	Unit	21 1/2	21 1/2	23 3/8	143
	Shipping	23	23	25	158
HC24D2VAR	Unit	21 1/2	21 1/2	26 7/8	150
	Shipping	23	23	28 1/2	165
HC30D2VAR	Unit	24 1/4	24 1/4	23 3/8	176
	Shipping	26 7/8	26 7/8	25	192
HC36D2VAR	Unit	24 1/4	24 1/4	26 7/8	187
	Shipping	26 7/8	26 7/8	28 1/2	202
HC42D2VAR	Unit	24 1/4	24 1/4	30 3/8	198
	Shipping	26 7/8	26 7/8	32	214