

Haier®

Heating & Air Conditioning Units

COMFORT
YOU
CAN
COUNT
ON





Nomenclature

Example: HC24D2VAE

H Brand symbol-H: Haier

C System type-C: Air conditioner; R: Heat pump

24 Nominal capacity in (000) Btu/h

D SEER designation. D=13, E=14

2 Design series. 1-1st Generation, 2-2nd Generation

V Electric: V=208/230-1-60; C=208/230-3-60; D=460-3-60, Y=575-3-60

A Body style

E Refrigerent type R: R22; E: R410A

Outdoor Unit



Quality Features:

- Environment-friendly R410A Refrigerant.
- High efficiency, high reliability compressors.
- Totally enclosed, permanently lubricated fan motor.
- Full range of 13 SEER products from 1.5 to 5 ton.
- AHRI 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.



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R410A Model Specifications - Cool Only

Model Number	HC18D2VAE	HC24D2VAE	HC30D2VAE	HC36D2VAE	HC42D2VAE	HC48D1VAE	HC60D1VAE
Nominal capacity BTU / H	18,000	24,000	30,000	36,000	42,000	48,000	60,000
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	208~230 / 1 / 60	208~230 / 1 / 60
Voltage range	197-253	197-253	197-253	197-253	197-253	197-253	197-253
Sound Level (dBs)	74	74	73	75	75	76	76
Min. Wire ampacity	9.8	11.5	14.8	17.7	20.8	21.6	28.9
Max fuse or HACR breaker	20	25	30	35	40	40	60
Compressor Type	Reciprocating	Reciprocating	Reciprocating	Reciprocating	Reciprocating	Reciprocating	Reciprocating
Rated Load Amps	7.1	8.5	10.7	13.2	15.7	15.7	21.2
Locked Rotor Amps	43	43	54	74	88	84	105
Fan Motor Type	psc	psc	psc	psc	psc	psc	psc
Rated Load Amps	0.9	0.9	1.4	1.2	1.2	2.0	2.4
Rated HP	1/7	1/7	1/4	1/5	1/5	1/3	1/2
Nominal RPM	1000	1000	1075	1090	1090	880	1000
Fan Blade # blades - Dia	3 - 18"	3 - 18"	3 - 18"	4 - 18"	4 - 18"	3 - 24"	3 - 24"
Norminal CFM	2000	2000	2350	2840	2840	4000	4300
Outdoor coil	Enhanced aluminum fins and grooved copper tubes						
Area sq. ft.	10.2	10.2	11.9	13.5	13.5	19.1	24.1
Dia. - Rows - Fin / in	5/16 - 1 - 21	5/16 - 1 - 21	5/16 - 2 - 20	5/16 - 2 - 20	5/16 - 2 - 20	3/8 - 2 - 17	3/8 - 2 - 20
Liquid line dia	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Suction line dia	3/4"	3/4"	3/4"	3/4"	7/8"	7/8"	7/8"
Refrigerant charge R410A (oz)	100	97	145	152	155	222	247

R410A Model Dimensions - Cool Only

Model Number		Dimensions			Weight	Quantity 40' Cont
		W (in)	D (in)	H (in)		
HC18D2VAE	Unit	21 1/2	21 1/2	26 7/8	150	240
	Shipping	23	23	28 1/2	161	
HC24D2VAE	Unit	21 1/2	21 1/2	26 7/8	150	240
	Shipping	23	23	28 1/2	161	
HC30D2VAE	Unit	24 1/4	24 1/4	26 7/8	178	153
	Shipping	26 7/8	26 7/8	28 1/2	191	
HC36D2VAE	Unit	24 1/4	24 1/4	30 3/8	183	153
	Shipping	26 7/8	26 7/8	32	196	
HC42D2VAE	Unit	24 1/4	24 1/4	30 3/8	185	153
	Shipping	26 7/8	26 7/8	32	198	
HC48D1VAE	Unit	30 5/8	30 5/8	32 1/4	244	84
	Shipping	32 1/2	32 1/2	33 1/2	262	
HC60D1VAE	Unit	30 5/8	30 5/8	40	290	56
	Shipping	32 1/2	32 1/2	41 3/8	312	

Extended Ambient Data - Cool Only

Outdoor	Indoor	AHRI Certified Performance			Cooling Capacity with different outdoor temperature							
		Capacity	SEER	CFM	80	85	90	95	100	105	110	115
HC18D2VAE	HB2400VD2M20	18000	13	670	20340	19745	19080	18000	17730	17460	17190	16920
HC24D2VAE	HB2400VD2M20	23000	13	850	25990	25230	24380	23000	22655	22310	21965	21620
HC30D2VAE	HB3600VD2M20	29000	13	1050	32770	31815	30740	29000	28565	28130	27695	27260
HC36D2VAE	HB3600VD2M20	34000	13	1240	38420	37300	36040	34000	33490	32980	32470	31960
HC42D2VAE	HB4800VD2M22	40000	13	1480	45200	43880	42400	40000	39400	38800	38200	37600
HC48D1VAE	HB4800VD2M22	47000	13	1580	53110	51560	49820	47000	46295	45590	44885	44180
HC60D1VAE	HB6000VD2M22	55500	13	1730	62715	60885	58830	55500	54665	53835	53000	52170

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 and regulations.



Note: Due to Haier's ongoing commitment to quality, all specifications, ratings and dimensions are subject to change without prior notice. Warranties noted apply to residential applications only and are limited. Please see actual warranty for details.





Heating & Air Conditioning Units

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R410A Model Specifications - Heat Pumps

Model Number	HR18D2VAE	HR24D2VAE	HR30D2VAE	HR36D2VAE	HR42D1VAE	HR48D1VAE	HR60D1VAE
Nominal capacity BTU / H	18,000	24,000	30,000	36,000	42,000	48,000	60,000
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	208~230 / 1 / 60	208~230 / 1 / 60
Voltage range	197-253	197-253	197-253	197-253	197-253	197-253	197-253
Sound Level (dBs)	74	74	74	75	75	74	76
Min.Wire ampacity	9.8	11.5	14.8	17.7	21.6	21.6	28.9
Max fuse or HACR breaker	20	25	30	35	40	40	60
Compressor Type	Reciprocating	Reciprocating	Reciprocating	Reciprocating	Reciprocating	Reciprocating	Reciprocating
Rated Load Amps	7.1	8.5	10.7	13.2	15.7	15.7	21.2
Locked Rotor Amps	43	43	54	74	88	84	105
Fan Motor Type	psc	psc	psc	psc	psc	psc	psc
Rated Load Amps	0.9	0.9	1.4	1.2	2.0	2.0	2.4
Rated HP	1/7	1/7	1/4	1/5	1/3	1/3	1/2
Nominal RPM	1000	1000	1075	1090	880	880	1000
Fan Blade # blades - Dia	3 - 18"	3 - 18"	3 - 18"	4 - 18"	3 - 24"	3 - 24"	3 - 24"
Norminal CFM	2000	2000	2350	2840	4000	4000	4300
Outdoor coil	Enhanced aluminum fins and grooved copper tubes						
Area sq. ft.	13.5	13.5	13.5	13.5	21.6	24.1	26.7
Dia. - Rows - Fin / in	5/16 - 1 - 21	5/16 - 1 - 21	5/16 - 2 - 20	5/16 - 2 - 20	3/8 - 2 - 17	3/8 - 2 - 17	3/8 - 2 - 20
Liquid line dia	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Suction line dia	3/4"	3/4"	7/8"	7/8"	7/8"	7/8"	7/8"
Refrigerant charge R410A (oz)	113	116	155	146	268	229	296

R410A Model Dimensions - Heat Pumps

Model Number		Dimensions			Weight	Quantity 40' Cont
		W (in)	D (in)	H (in)		
HR18D2VAE	Unit	24 1/4	24 1/4	30 3/8	165	153
	Shipping	26 7/8	26 7/8	32		
HR24D2VAE	Unit	24 1/4	24 1/4	30 3/8	167	153
	Shipping	26 7/8	26 7/8	32		
HR30D2VAE	Unit	24 1/4	24 1/4	30 3/8	191	153
	Shipping	26 7/8	26 7/8	32		
HR36D2VAE	Unit	24 1/4	24 1/4	30 3/8	194	153
	Shipping	26 7/8	26 7/8	32		
HR42D1VAE	Unit	30 5/8	30 5/8	36 1/8	271	56
	Shipping	32 1/2	32 1/2	37 1/2		
HR48D1VAE	Unit	30 5/8	30 5/8	40	301	56
	Shipping	32 1/2	32 1/2	41 3/8		
HR60D1VAE	Unit	30 5/8	30 5/8	44	310	56
	Shipping	32 1/2	32 1/2	45 3/8		

Extended Ambient Data - Heat Pumps

Outdoor	Indoor	AHRI Certified Performance			Cooling Capacity with different outdoor temperature							
		Capacity	SEER	CFM	80	85	90	95	100	105	110	115
HR18D2VAE	HB2400VD2M20	17600	13	670	20340	19745	19080	18000	17730	17460	17190	16920
HR24D2VAE	HB2400VD2M20	24000	13	900	27120	26330	25440	24000	23640	23280	22920	22560
HR30D2VAE	HB3600VD2M20-T	30000	13	1125	33900	32910	31800	30000	29550	29100	28650	28200
HR36D2VAE	HB3600VD2M20-T	34000	13	1275	38420	37230	36040	34000	33490	32980	32470	31960
HR42D1VAE	HB4800VD3M22	41000	13	1480	46330	44975	43460	41000	40385	39770	39155	38540
HR48D1VAE	HB4800VD3M22	47500	13	1560	53675	52100	50350	47500	46785	46075	45360	44650
HR60D1VAE	HB6000VD1M22-T	57500	13	1730	64975	63075	60950	57500	56640	55775	54915	54050

Outdoor	Indoor	AHRI Certified Performance			Cooling Capacity with different outdoor temperature							
		Capacity	HSPF	CFM	-10	0	10	20	30	40	50	60
HR18D2VAE	HB2400VD2M20	17000	7.7	670	5570	7490	9375	11295	13150	15475	18230	21000
HR24D2VAE	HB2400VD2M20	22000	7.7	900	7000	9415	11785	14200	16535	19455	22920	26400
HR30D2VAE	HB3600VD2M20-T	27800	7.7	1125	8845	11895	14895	17945	20890	24580	28965	33360
HR36D2VAE	HB3600VD2M20-T	32000	7.7	1275	10180	13690	17145	20655	24050	28295	33340	38400
HR42D1VAE	HB4800VD3M22	41000	7.7	1480	13045	17545	21966	26465	30812	36255	42715	49200
HR48D1VAE	HB4800VD3M22	47500	7.7	1560	15115	20325	25450	30660	35695	42000	49485	57000
HR60D1VAE	HB6000VD1M22-T	57000	7.7	1730	18135	24380	30550	36790	42835	50400	59385	68400

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◀ About Haier ▶

Haier is the world's 4th largest white goods manufacturer, with 29 manufacturing facilities and 16 industrial parks on all continents. The company's sales network covers over 160 countries, with 58,800 sales outlets and 50,000 employees worldwide.

Haier America is headquartered in the Haier Building at 1356 Broadway in New York. Haier America is a leader for room air conditioners, compact refrigerators, and wine cellar sales; as well as a leading force in home appliances, HVAC, compact laundry, compact freezers and HDTV sales.

Haier America is an Official Marketing Partner and the Official High Definition Television of the NBA. The Haier Central Air Conditioner Division (CAC) has been dedicated to producing highly efficient, environment-friendly Air Conditioning systems for decades. Currently, Haier CAC is one of the world's biggest HVAC production bases that provides cooling, heating and ventilation solutions for residential, commercial and industrial applications.



Haier America

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