

Haier®



Comfort You Can Count On

13 SEER Heat Pumps D1 & D2



Outdoor 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.
- Reliable electronic control provides defrost capabilities for a wide range of outdoor conditions while ensuring system components operate within their design parameters.
- ARI certified and rated in accordance with DOE Standard.
- Full metal jacket protects the coil from damage.
- High Pressure Control-Protects compressor.
- Factory installed liquid line bi-flow 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.
- Service port located above the service valves

Quality Warranty:

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

H	Brand symbol-H: Haier
R	System type-R: Heat Pump
24	Nominal capacity in (000) Btu/h
D	SEER designation D=13
1	Design series.1-1st Generation
V	Electric: V;208-230-1-60
A	Body Style
R	Reserved
	Example: HR24D1VAR

Model Specifications

Model Number		HR24D1VAR	HR30D1VAR	HR36D1VAR	HR42D1VAR	HR48D1VAR	HR60D1VAR
Nominal Capacity	(BTU/h)	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
Voltage range	V	197-253	197-253	197-253	197-253	197-253	197-253
Operating current amps.	A	9.8	11.2	13.6	17	19.2	21.6
Min.Wire ampacity	A	11.6	12.8	16.1	20.6	21.7	33.7
Max.Amps.of fuse or HACR Type Circuit Breaker	A	20	20	25	35	35	55
Compressor	Type	Reciprocating	Reciprocating	Reciprocating	Reciprocating	Reciprocating	Scroll
Rated Load Amps.	A	8.6	9.2	11.7	14.9	15.8	25
Locked Running Amps.	A	60	60	73	90	90	150
Fan Motor	Type	psc	psc	psc	psc	psc	psc
Rated Load Amps.	A	1.1	1.3	1.43	2	2	2.5
Rated HP		1/6	1/4	1/3	1/3	1/3	1/2
Nominal RPM		840	850	1070	960	880	1000
Fan Blades	# blades-Dia.	3-23"	3-24"	3-23"	3-24"	3-24"	3-24"
Norminal CFM		1800	2700	3200	3600	4000	4300
Outdoor coil	Type	Enhanced aluminum fins and grooved copper tubes					
Area	Sq.Ft.	16	18.4	18.4	18.4	20.85	25.75
ROWS-FPI		1-21	1-21	1-21	2-17	2-17	2-17
Tube diameter	Inch	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Refrigerant line sizes	Liquid	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
	Vapor	3/4"	3/4"	7/8"	7/8"	7/8"	7/8"
Refrigerant charge R22	Oz.	117	136	131	186	196	314

Model Number		HR18D2VAR	HR24D2VAR	HR30D2VAR	HR36D2VAR
Nominal capacity	(BTU/h)	18,000	24,000	30,000	36,000
Power supply	V/Hz/Ph	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
Operating current amps.	A	7.1	9.4	11.6	14.3
Min.Wire ampacity	A	7.6	10.9	14.0	16.4
Max.Amps.of fuse	A	15	20	25	30
Compressor	Type	Reciprocating	Reciprocating	Reciprocating	Reciprocating
Rated Load Amps.	A	5.4	8.0	10.1	11.8
Locked Running Amps.	A	36.0	53.5	61.0	78.0
Fan Motor	Type	psc	psc	psc	psc
Rated Load Amps.	A	0.86	0.86	1.4	1.6
Rated HP		1/8	1/8	1/4	1/3
Nominal RPM		1000	1000	1075	1120
Fan Blades	Dia.-# blades	3-18"	3-18"	3-18"	4-18"
	Norminal CFM	2000	2000	2350	2840
Outdoor coil	Type	Enhanced aluminum fins and grooved copper tubes			
Area	Sq.Ft.	12.2	12.2	11.9	13.5
Rows -FPI		1-21	1-21	2-20	2-20
Tube diameter	Inch	5/16"	5/16"	5/16"	5/16"
Refrigerant line	Liquid	3/8"	3/8"	3/8"	3/8"
	Vapor	3/4"	3/4"	3/4"	7/8"
Refrigerant charge R22	Oz	104	108	141	148

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

Cooling and Heating

Cooling

Outdoor	Indoor	ARI Certified Performance			Cooling Capacity with different outdoor temperature							
		Capacity	SEER	CFM	80	85	90	95	100	105	110	115
HR24D1VAR	HB2400VD1M20	24000	13	900	27120	26328	25440	24000	23640	23280	22920	22560
HR30D1VAR	HB3600VD1M22	28000	13	1125	31640	30716	29680	28000	27580	27160	26740	26320
HR36D1VAR	HB3600VD1M22	35000	13	1240	39550	38395	37100	35000	34475	33950	33425	32900
HR42D1VAR	HB4800VD1M22	42000	13	1480	47460	46074	44520	42000	41370	40740	40110	39480
HR48D1VAR	HB4800VD1M22	46000	13	1650	51980	50462	48760	46000	45310	44620	43930	43240
HR60D1VAR	HB6000VD1M22	55000	13	1850	62150	60335	58300	55000	54175	53350	52525	51700

Heating

Outdoor	Indoor	ARI Certified Performance			Heating capacity with different outdoor temperature							
		Capacity	HSPF	CFM	-10	0	10	20	30	40	50	60
HR24D1VAR	HB2400VD1M20	22500	7.8	900	7159	9627	12055	14523	16909	19895	23441	27000
HR30D1VAR	HB3600VD1M22	25500	7.8	1125	8114	10911	13662	16459	19164	22548	26566	30600
HR36D1VAR	HB3600VD1M22	32000	7.8	1240	10182	13692	17144	20655	24048	28296	33338	38400
HR42D1VAR	HB4800VD1M22	41000	7.8	1480	13045	17543	21966	26464	30812	36254	42715	49200
HR48D1VAR	HB4800VD1M22	44000	7.8	1650	14000	18827	23573	28400	33067	38907	45840	52800
HR60D1VAR	HB6000VD1M22	55000	7.8	1850	17500	23533	29467	35500	41333	48633	57300	66000

Cooling

Outdoor	Indoor	ARI Certified Performance			Cooling Capacity with different outdoor temperature							
		Capacity	SEER	CFM	80	85	90	95	100	105	110	115
HR18D2VAR	HB2400VD1M20	17000	13	670	19210	19197	18020	17000	17237	16490	16712	15980
HR24D2VAR	HB2400VD1M20	22500	13	900	25425	24683	23850	22500	22163	21825	21488	21150
HR30D2VAR	HB3600VD1M22	28000	13	1125	31640	30716	29680	28000	27580	27160	26740	26320
HR36D2VAR	HB3600VD1M22	35000	13	1240	39550	38395	37100	35000	34475	33950	33425	32900

Heating

Outdoor	Indoor	ARI Certified Performance			Heating Capacity with different outdoor temperature							
		Capacity	HSPF	CFM	-10	0	10	20	30	40	50	60
HR18D2VAR	HB2400VD1M20	15000	7.8	670	4773	6418	8036	9682	11273	13264	15627	18000
HR24D2VAR	HB2400VD1M20	20000	7.8	900	6364	8558	10715	12909	15030	17685	20836	24000
HR30D2VAR	HB3600VD1M22	26000	7.8	1125	8273	11125	13930	16782	19539	22990	27087	31200
HR36D2VAR	HB3600VD1M22	32500	7.8	1240	10341	13906	17412	20977	24424	28738	33859	39000

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			Weight
		W (in)	D (in)	H (in)	Lbs.
HR24D1VAR	Unit	30 5/8	30 5/8	28 1/4	203
	Shipping	32 1/2	32 1/2	29 1/2	218
HR30D1VAR	Unit	30 5/8	30 5/8	32 3/16	207
	Shipping	32 1/2	32 1/2	33 1/2	225
HR36D1VAR	Unit	30 5/8	30 5/8	32 3/16	220
	Shipping	32 1/2	32 1/2	33 1/2	238
HR42D1VAR	Unit	30 5/8	30 5/8	32 3/16	258
	Shipping	32 1/2	32 1/2	33 1/2	275
HR48D1VAR	Unit	30 5/8	30 5/8	36 1/8	271
	Shipping	32 1/2	32 1/2	37 1/2	289
HR60D1VAR	Unit	30 5/8	30 5/8	44	315
	Shipping	32 1/2	32 1/2	45 5/16	325

Model Number		Dimensions			Weight
		W(in)	D(in)	H(in)	Lbs.
HR18D2VAR	Unit	24 1/4	24 1/4	26 7/8	167
	Shipping	26 7/8	26 7/8	28 1/2	183
HR24D2VAR	Unit	24 1/4	24 1/4	26 7/8	172
	Shipping	26 7/8	26 7/8	28 1/2	187
HR30D2VAR	Unit	24 1/4	24 1/4	26 7/8	189
	Shipping	26 7/8	26 7/8	28 1/2	205
HR36D2VAR	Unit	24 1/4	24 1/4	30 3/8	207
	Shipping	26 7/8	26 7/8	32	222