

Outdoor Split System Air Conditioner 3 Thru 5 Tons Models H1RA036 THRU 090 3 PHASE 10 SEER

Physical and Electrical Data

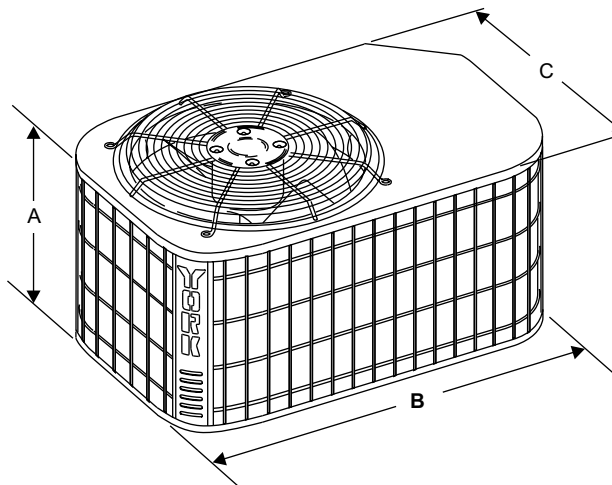
MODEL	H1RA 036S25	H1RA 042S25	H1RA 048S25	H1RA 060S25	H1RA 076S25	H1RA 090S25	H1RA 036S46	H1RA 042S46	H1RA 048S46	H1RA 060S46	H1RA 076S46	H1RA 090S46	
Unit Supply Voltage	208/230 – 3 – 60						460 - 3 - 60						
Normal Voltage Range ¹	187 to 252						432 to 504						
Minimum Circuit Ampacity	15.0	17.4	17.3	21.3	25.8	37.7	8.0	9.0	8.3	10.8	13.0	18.1	
Max. Overcurrent Device Amps ²	25	30	30	35	40	50	15	15	15	15	20	25	
Compressor Type	Recip	Recip	Recip	Scroll	Scroll	Dual	Recip	Recip	Recip	Scroll	Scroll	Dual	
Compressor Amps	Rated Load	10.9	12.8	11.7	16.0	18.9	29.4	5.8	6.1	6.1	8.0	9.5	14.0
	Locked Rotor	78	78	78	125	146	260	40	39	39	67	73	128
Crankcase Heater	No	No	No	No	No	Yes	No	No	No	No	No	Yes	
Fan Motor Amps	Rated Load	1.4	1.4	1.3	1.3	2.2	4.6	0.8	0.8	0.7	0.8	1.2	2.3
Fan Diameter Inches	18	18	22	22	24	24	18	18	22	22	24	24	
Fan Motor	Rated HP	1/4	1/4	1/4	1/4	1/3	3/4	1/4	1/4	1/5	1/4	1/3	3/4
	Nominal RPM	1,100	1,100	850	850	1,100	1,100	1,100	1,100	850	850	1,100	1,100
	Nominal CFM	2,750	2,750	3,250	3,450	4,000	5,000	2,750	2,750	3,250	3,450	4,000	5,000
Coil	Face Area Sq. Ft.	9.15	12.58	15.72	23.58	18.0	22.5	9.15	12.58	15.72	23.58	18.0	22.5
	Rows Deep	1	1	1	1	2	2	1	1	1	1	2	2
	Fin / Inches	18	18	18	18	16	16	18	18	18	18	16	16
Liquid Line OD	3/8	3/8	3/8	3/8	1/2	1/2	3/8	3/8	3/8	3/8	1/2	1/2	
Vapor Line OD	3/4	3/4	7/8	7/8	1-1/8	1-1/8	3/4	3/4	7/8	7/8	1-1/8	1-1/8	
Unit Charge (Lbs. - Oz.) ³	3 - 15	5 - 4	7 - 5	9 - 7	12-3	15-3	3 - 15	5 - 4	7 - 5	9 - 7	12-3	15-3	
Charge Per Foot, Oz. ³	.68	.68	.70	.70	1.26	1.26	.68	.68	.70	.70	1.26	1.26	
Operating Weight Lbs.	170	184	206	228	219	368	170	184	206	228	219	368	

1. Rated in accordance with ARI Standard 110, utilization range "A".

2. Dual element fuses or HACR circuit breaker.

3. The Unit Charge is correct for the outdoor unit, matched indoor coil and 15 feet of refrigerant tubing. For tubing lengths other than 15 feet, add or subtract the amount of refrigerant, using the difference in length multiplied by the per foot value.

All dimensions are in inches. They are subject to change without notice. Certified dimensions will be provided upon request.



Unit Model H*RA	Dimensions (Inches)			Refrigerant Connection Line Size	
	A	B	C	Liquid	Vapor
036	19	35	23	3/8"	3/4
042	25	35	23	3/8"	3/4
048	27	37	27	3/8"	7/8
060	39	37	27	3/8"	7/8
076	26	43	32	1/2"	1-1/8"
090	32	43	32	1/2"	1-1/8"

1. Included Fan Guard

Additional R-22 Charge / Orifice Size for Various Matched Systems

Additional R-22 Charge / Orifice Size for Various Matched Systems						
Outdoor Unit	H1RA036	H1RA042	H1RA048	H1RA060	H1RA076	H1RA090
Unit Orifice (s) ¹	67, 71, 73	75, 78, 81	81	90	—	—
Factory R-22 Charge, lbs-oz	3 - 15	5 - 4	7 - 5	9 - 7	12 - 3	15 - 3
Indoor Coil	Coil Orifice ²	System Orifice + Additional Charge, Oz				
G1NA036S17J	67	61 + 2	—	—	—	—
G1NA036S21C	67	61 + 2	—	—	—	—
G1NA048S21D	78	—	78 + 0	78 + 4	—	—
G1NA048S24P	78	—	78 + 0	78 + 4	—	—
G1NA060S24T	87	—	—	—	87 + 0	—
G1FA/G1UA03617/21	73	61 + 0	—	—	—	—
G1FA/G1UA048S17	84	—	78 + 5	—	—	—
G1FA/G1UA048S21	84	63 + 13	78 + 6	81 + 13	—	—
G1FA/G1UA060S24	90	—	78 + 16	—	90 + 5	—
G2FD036(S,H)17	75	61 + 3	—	—	—	—
G2FD036(S,H)21	75	61 + 5	—	—	—	—
G2FD042(S,H)21	78	—	78 + 0	—	—	—
G2FD046(S,H)17	78	—	78 + 5	—	—	—
G2FD048(S,H)21/24	78	—	78 + 9	81 + 15	—	—
G2FD060(S,H)24	90	—	—	—	90 + 5	—
F2RC036	75	61 + 0	—	—	—	—
F2RP042	78	—	78 + 0	—	—	—
			702 + 0			
F2FP048	84	—	78 + 9	81 + 15	—	—
F2FP060	90	—	—	—	90 + 5	—
K4EU090	TXV ³	—	—	—	—	0

Footnotes:

1. These orifices are packed in the instruction/warranty packet of each outdoor unit.
 2. These orifices are factory mounted in the flow control device of each indoor coil.
 3. The TXV is factory mounted in the coil or air handler.
1. Unit factory charge listed on the unit nameplate includes refrigerant for the condenser, the smallest evaporator and for 15 feet of interconnecting line tubing.
 2. Verify the orifice size and additional charge required for specific evaporator coil in the system using the above table.
 3. Additional charge for the amount of interconnecting line tubing greater than 15 feet at the rate specified in the table above.
 4. Permanently mark the unit nameplate with the total system charge. Total System Charge = Base Charge (as shipped) + adder for evaporator + adder for line set.
 5. If the orifice in the evaporator was changed, verify the evaporator nameplate has been marked with the correct orifice size.