

INSTALLATION INSTRUCTIONS

(TABULAR DATA)

OUTDOOR SPLIT-SYSTEM COOLING 3 TO 5 TONS

Supersedes: 550.38-N2.1Y (1096)

550.38-N2.1Y (1297)

035-14205

MODELS H*DB036 THRU 060 10 SEER

PHYSICAL AND ELECTRICAL DATA - (3 Phase)

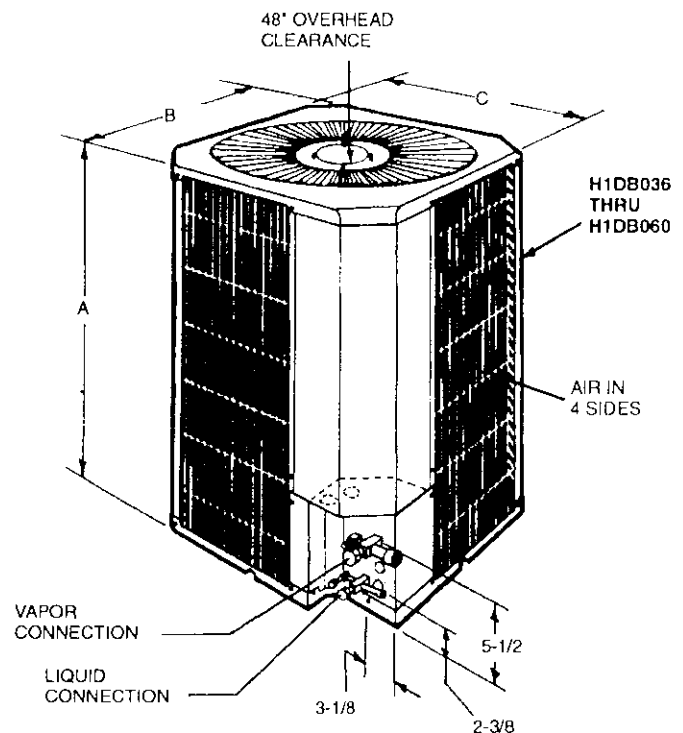
MODELS		H1DB036	H2DB048	H2DB060	H1DB036	H2DB048	H2DB060	H1DB048	H1DB060
		25			46			58	
UNIT SUPPLY VOLTAGE		208/230-3-60			460-3-60			575-3-60	
NORMAL VOLTAGE RANGE ¹		187 to 253			432 to 504			517 to 633	
MIN. CIRCUIT AMPACITY		15.2	19.1	21.6	8.0	8.8	10.8	8.5	8.0
MAX. OVERCURRENT DEVICE AMPS ²		25	30	30	15	15	15	15	15
COMPRESSOR TYPE		Inertia	Scroll ³	Scroll3	Inertia	Scroll ³	Scroll ³	Recip	Scroll
COMPRESSOR AMPS	RATED LOAD	10.9	14.0	16.0	5.8	6.4	8.0	6.4	5.9
	LOCKED ROTOR	78	93.0	125	40	46.5	66.5	52	49.4
CRANKCASE HEATER		YES	NO	NO	YES	NO	NO	YES	NO
FAN MOTOR AMPS	RATED LOAD	1.6	1.6	1.6	0.8	0.8	0.8	0.5	0.6
	LOCKED ROTOR	3.8	3.8	3.5	1.8	1.8	2.0	1.1	1.5
MIN. FIELD WIRE SIZE AWG 60°C COPPER CONDUCTORS		12	12	10	14	14	14	14	14
MAX. WIRE LENGTH FEET BASED ON 3% VOLTAGE DROP	208V	105	95	155	-	-	-	-	-
	230V	120	105	170	-	-	-	-	-
	460V	-	-	-	310	300	235	-	-
	575V	-	-	-	-	-	-	425	440
FAN DIAMETER INCHES		18	18	24	18	18	24	18	24
FAN MOTOR	RATED HP	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
	NOMINAL RPM	1075	1075	850	1075	1075	850	1075	850
	NOMINAL CFM	2350	2150	3000	2350	2150	3000	2150	3000
COIL	FACE AREA SQ. FT.	11.3	17.0	20.0	11.3	17.0	20	17.0	20
	ROWS DEEP	1	1	1	1	1	1	1	1
	FIN / INCH	20	20	18	20	20	18	20	18
LIQUID LINE OD		3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8
VAPOR LINE OD		3/4	7/8	7/8	3/4	7/8	7/8	7/8	7/8
OPERATING WEIGHT LBS.		140	175	210	140	175	210	169	200

¹ Utilization range "A" in accordance with ARI standard 110. ² Dual element fuses or HACR circuit breaker. ³ Bristol scroll.

DIMENSIONS

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

UNIT MODEL HDB	DIMENSIONS			REFRIGERANT CONNECTION LINE SIZE	
	A	B	C	LIQUID	VAPOR
	036	24-1/8	24	24	
048	36-1/8	24	24	3/8	7/8
060	31-1/8	34-1/2	34-1/2		



R-22 SYSTEM CHARGING PROCEDURE

- Unit factory charge listed on the unit nameplate includes refrigerant for the condenser, the smallest evaporator and for 15 feet of interconnecting line tubing.
- Vary the orifice size and the additional charge required for the specific evaporator coil in the system using the following table:

ADDITIONAL R-22 CHARGE / ORIFICE SIZE FOR VARIOUS MATCHED SYSTEMS				
OUTDOOR UNITS		H1DB036	H2DB048	H2DB060
UNIT ORIFICE(S) ²		73	78, 81	87, 90, 93
FACTORY CHARGE, LBS. - OZ.		4 - 8	6 - 15	8 - 0
INDOOR COIL	COIL ORIFICE ¹	SYSTEM ORIFICE + ADDITIONAL CHARGE, OZ.		
G1UA036S17/21	73	73 + 4	-	-
G1UA048S21	84	75 + 12	78 + 7	-
G1UA060S24	90	-	-	90 + 0
G1NA036S17J	67	67 + 6	-	-
G1NA036S21C	67	67 + 6	-	-
G1NA048S21D	78	69 + 13	81 + 0	-
M3CF044	69	73 + 0	-	-
M3CF052	84	-	78 + 0	-
G2FD036S17/21	75	73 + 8	-	-
G2FD042S21	78	75 + 7	-	-
G2FD048S21	84	-	-	-
G2FD060S24	90	-	84 + 15	90 + 0
M3HD036	69	69 + 3	-	-
M3HD048	84	73 + 7	78 + 11	-
M3HD060	96	-	78 + 14	90 + 1
M3UF044	69	73 + 0	-	-
M3UF052	84	73 + 12	78 + 0	-
M3UF064	90	-	-	90 + 0
F2RC036	75	73 + 0	-	-
F2RP036	75	75 + 5	-	-
F2RP042	78	75 + 8	-	-
F2FP048	84	-	81 + 11	-
F2FP060	90	-	-	90 + 0
REFRIGERANT LINE ADDER, OZ. / FT.		0.68	0.70	0.70

¹These orifices are factory-mounted in the flow control device of each indoor coil.

²These orifices are packed in the instruction/warranty packet of each outdoor unit.

NOTE: Orifices () must be ordered from the Parts Department.

- Add additional charge for the amount of interconnecting line tubing greater than 15 feet at the rate specified in the table above.
- Permanently mark the unit nameplate with the total system charge.
Total System Charge = Base charge (as shipped) + adder for evaporator + adder for line set
- If the orifice in the evaporator was changed verify the evaporator nameplate has been marked with the correct orifice size.



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