INSTALLATION INSTRUCTIONS

BC35B AND BC36B INDOOR BLOWER COIL UNIT

FOR USE WITH
SPLIT HEAT PUMP AND
SPLIT AIR CONDITIONER SYSTEMS

INDEX

General		. 5
Unpacking		. 5
Sizing	• •	
founting Positions	• •	
Ductwork	• •	
ilter		
ocation and Clearances		
Positional of the differences		. 0
Condensate Drain		. 6
Expansion Device (BC36B Dnly)		. 7
Caution When Using 5780 Series Couplings		. 8
Interconnecting Tubing		
Thermostat Low-Voltage Wiring	• •	· q
Two Speed Blower Motor	• •	
Blower Motor Oilers	• •	
Init Operation		. 10
Air Conditioning With Electric Heat		. 10
leat Pump WIth Electric Heat		. 10
/all Thermostats		. 11
Ownflow (Counterflow) Installation		. 13

INDEX OF FIGURES AND TABLES

Figure Figure Figure	e 2 e 3		•	•	•	•	•				•		:	•	•				•	•	•	•			•					:	:	:	•	٠					1 7 8 13
			•	•		•	Ī	•	•		•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	٠	•	•	•	•	•	•	13
Table	1																																						_
Table	_	•	٠	•	•	'	•	•																															2
Table	_																																						3
	_																																						4
Table																																							4
Table	_	•	•	•	•	•		•	•	•	•	•	•		,	•	•	٠	•	•					•														4
Table	_																					,																	4
Table	7																																						5
Table	8																																						9
Table	9																																						10
Table	10																																				•		
Table																																							10
Table		•	•	•	•	•	•	•	•	•	•	•																											10
Table		•	•	+	+	•	•	•	•	•	•	٠																											11
19116	13	•	•	•																	-				_		_	_	_										11

BC35B AND BC36B SERIES Upflow - Counterflow - Horizontal 2 Speed Direct Drive Motor Slide-In Return Air Filter Service Door Tubing Connections Overflow Drain Horizontal Drain_ Overflow Drain Upflow/1 Horizontal (Attic or Crawl Space) Counterflow Filter-Access Upflow (Side Inlet) Upflow Counterflow (Bottom Inlet)

Model	Cab	inet :	Size	Supply	Outlet	Side : Air O		Bottom Air Op	Return ening	Electric Right	l Opening Side	Electrical Top	l Opening
l .	A	В	С	D	B	8	G	H	I	J	K	Ŀ	H
BC35B & BC36B	20	23	51	14	18	14	20	16	19	2	7-1/4	6-11/16	2-1/4

TABLE 1
APPROVED MATCHED COMBINATIONS, RATED CPM, E.S.P., ORIFICE
PART NUMBER AND DIAMETER

Condensing	Blower Coil	Rated	Airflow	Recommended	Orifice	Orifice
Unit Model	Model	Rucou		Air Flow	Part	Diameter
Number	Number	CPM	ESP	Range	Number	Diametel
30UHPQA	BC35B	975	.55	825 - 1075	N/A	N/A
ooom xii	BC36B	1050	.35	900 - 1150	5625-067 (2)	.067
36UHPQA	BC35B	1125	.35	950 - 1240	N/A	N/A
4	BC368	1200	.30	1020 - 1320	5625-072 ①	.072
30HPQ6	BC35B	1060	.35	910 - 1160	N/A	N/A
	8C36B	1050	.35	900 - 1150	5625-061 (2)	.061
36HPQ7	BC35B	1240	.20	1060 - 1360	N/A	N/A
	BC36B	1200	.30	1020 - 1320	5625-063 (2)	.063
30UACQA	BC35B	1025	.40	875 - 1125	N/A	N/A
	BC36B	1050	,35	900 - 1150	5625-063 (2)	.063
36UACQA	BC35B	1200	.30	1020 - 1320	N/A	N/A
	всз6в	1200	,30	1020 - 1320	5625-072 (1)	.072
42UACQA					_	
	BC36B	1200	.30	1020 - 1320	5625-078 ②	.078
30BCQ4	BC35B	1050	.50	900 - 1150	H/A	N/A
	· · · · · · · · · · · · · · · · · · ·					
31 BCQ2	BC35B	1000	.55	850 - 1100	N/A	N/A
D.C.BOOF	DAGER	1075	40	1005 1205	WIZ	1973
36BCQ5	BC35B	1275	.40	1095 - 1395	N/A	N/A
37BCQI	BC35B	1200	.50	1020 - 1320	N/A	N/A

① This orifice is shipped installed in the blower coil. When this combination of condensing unit and blower coil is used, the orifice is properly sized.

This orifice is <u>not</u> installed in the blower coil. Proper orifice diameter is shipped with outdoor unit packaged with its installation instructions. The orifice <u>must</u> be replaced with the proper orifice shown.

TABLE 2

MAXIMUM B.S.P. O	PERATI	ON IMPO	RMATIO	N (1) B	C35B, 1	BC36B
	ilm	flow		2) erflow	Bori	zontal
Type Of				r Speed		
Application	Low	Bigh	Low	Eigh	Low	High
Heat Pump w/18KW	.30	.45	3	3	.20	.40
Heat Pump w/14KW	.40	.55	3	3	.35	.50
Heat Pump w/9KM	.60	.60	.40	.50	.50	.55
Heat Pump w/5KW	.60	.60	.60	.60	.55	.60
Heat Pump Only	.60	.60	.60	.60	.60	.60
18KW Only	.60	.60	.60	.60	.60	.60
14KW Only	.60	.60	.60	.60	.60	,60
9KW Only	.60	.60	.60	.60	.60	.60
SKW Only	.60	.60	.60	.60	.60	.60

Values shown are for bottom and side return air opening.
 Side inlet not available on counterflow applications.
 18KW and 14KW not approved in counterflow position when used with best pump heating.

TABLE 3 INDOOR BLOWER COIL PERFORMANCE (1)

				l _			IN H20		-	
Model	KW	Speed	Position	.00	.10_	.20	.30	.40	.50	.60
BC358	0	Ħi	Upflow/horizontal	1400	1355	1292	1229	1163	1093	942
BC35B	0	Low	Upflow/horizontal	1213	1180_	1141	1090	_1037	956	760
BC35B	5	Hi	Upflow/horizontal	1385	1340	1277	1214	1148	1078	927
BC35B	5	Low	Upflow/horizontal	1198	1165	1126	1075	1022	941	745
BC35B	9	8ì	Upflow/horizontal	1370	1325	1262	1199	1133	1063	912
BC35B	9	Low	Upflow/horizontal	1183	1150	1111	1060	1007	926	730
BC35B	14	Øi	Upflow/horizontal	1355	1310	1247	1184	1118	1048	897
BC35B	14	Low	Upflow/horizontal	1168	1135	1096	1045	992	911	715
BC35B	18	Hi	Upflow/horizontal	1340	1295	1232	1169	1103	1033	882
BC35B	18	Low	Upflow/horizontal	1153	1120	1081	1030	977	896	700

TABLE 4

INDOOR BLOWER COIL PERFORMANCE (2)										
							IN H20		•	-
Model_	KW	Speed	Position	.00	.10	.20	.30	.40	.50	.60
вс35В	0	Hi	Counterflow	1360	1290	1223	1152	1092	922	743
BC35B	0	Low	Counterflow	1216	1159	1109	1052	933	772	652
BC35B	5	8i	Counterflow	1345	1275	1208	1137	1077	907	728
BC35B	5	Low	Counterflow	1201	1144	1094	1037	918	757	637
BC35B	9	Hi	Counterflow	1330	1260	1199	1122	1062	892	713
BC35B	9	Low	Counterflow	1186	1129	1079	1022	903	742	622
BC35B	14	Hi	Counterflow	1315	1245	1178	1107	1047	877	698
BC35B	14	Low	Counterflow	1171	1114	1064	1007	888	727	607
BC35B	18	Hi	Counterflow	1300	1230	1163	1092	1032	862	683
BC35B	18.	Low	Counterflow	1156	1099	1049	992	873	712	592

TABLE 5 INDOOR BLOWER COIL PERFORMANCE (1)

			IRDOOR DEON:	OK 0010	T DIVIT AND	WALE ()	<u></u>			
				IN E20						
Model	KW	Speed	Position	.00	.10	.20	.30	.40	.50	.60
BC368	0	Hi	Upflow/horizontal	1348	1297	1230	1174	1110	1009	883
BC36B	0	Low	Upflow/horizontal	1169	1135	1090	1042	987	853	707
ВСЗ6В	5	Bi	Upflow/horizontal	1333	1282	1215	1159	1095	994	868
BC36B	5	Low	Upflow/horizontal	1154	1120	1075	1027	972	838	692
BC36B	9	Hi	Upflow/horizontal	1314	1258	1195	1142	1080	974	853
BC36B	9	Low	Upflow/horizontal	1139	1105	1060	1012	957	823	677
BC36B	14	Яi	Upflow/horizontal	1303	1248	1185	1129	1065	964	838
BC36B	14	Low	Upflow/horizontal	1124	1090	1045	997	942	808	662
BC36B	18	Hi	Upflow/horizontal	1293	1238	1170	1114	1052	952	823
BC36B	18	Low	Upflow/horizontal	1109	1075	1030	982	927	799	647

TABLE 6

	INDUS O										
INDOOR BLOWER COIL PERFORMANCE (2)											
	Π						IN H20				l
Model	KN	Speed	Position	,00	<u>,10</u>	.20	,30	.40	.50	.60	
BC36B	0	Hi	Counterflow	1305	1243	1173	1120	986	862	702	
ВСЗ6В	0	Low	Counterflow	1203	1135	1085	1004	897	764	649	
ВСЗ6В	5	Hi	Counterflow	1290	1228	1158	1105	971	847	687	l
ВСЗ6В	5	Low	Counterflow	1188	1120	1070	989	882	749	634	J
BC36B	9	Hi	Counterflow	1275	1219	1143	1090	956	832	672	Į
BC36B	9	Low	Counterflow	1173	1105	1055	974	867	734	619	ŀ
BC368	14	Bi	Counterflow	1260	1198	1128	1075	941	817	657	Ī
BC368	14	Low	Counterflow	1158	1090	1040	959	852	719	604	l
BC36B	18	Hi	Counterflow	1245	1183	1113	1060	926	802	642	I
BC36B	18	Low	Counterflow	1143	1075	1025	944	837	704	589	l
71 11	. 1			h-++							٠

1) Values shown are standard for both bottom and side return air opening.
2) Values shown are standard for bottom return air opening, side return air opening not available for counterflow.
4

GENERAL

Units are shipped completely assembled and internally wired, requiring only duct connections, thermostat wiring and external 208-240 volt AC power supply.

The BC35B and BC36B blower coil units, with various KW electric heat options are suitable for use with the following air conditioner and heat pump outdoor sections. It can be used both as an air conditioning system with electric heat and as a heat pump with electric heat. Refer to sections titled, "AIR CONDITIONING WITH ELECTRIC HEAT and HEAT PUMP WITH ELECTRIC HEAT" for complete information.

TABLE 7
APPROVED COMBINATIONS

Air Condi	tioning	Heat Pump						
Outdoor Section	Indoor Section	Outdoor Section	Indoor Section					
30BCQ4	ВС35В	30HPQ6	BC35B & BC36B					
31 BCQ2	BC35B	36HPQ7	BC35B & BC36B					
36BCQ5	BC35B	30UHPQA	BC35B & BC36B					
37 BCQ 1	BC35B	36UHPQA	BC35B & BC36B					
30UACQA	BC358 & BC368							
36UACQA	BC35B & BC36B							
36UACQA-B	BC35B & BC36B							
42UACSA	BC36B							
42UACSA-B	всз6в							

UNPACKING

Upon receipt of equipment, carton should be checked for external signs of damage. If damage is found, request for inspection by carrier's agent should be made in writing immediately.

SIZING

Size of unit for a proposed installation should be based on heat loss calculation made according to methods of National Warm Air Heating and Air Conditioning Association. The air duct should be installed in accordance with the Standards of the National Fire Protection Association for the Installation of Air Conditioning and Ventilating Systems of Other Than Residence Type, NEPA No. 90A, and Residence Type Warm Air Heating and Air Conditioning System, NEPA No. 90B. Where local regulations are at a variance with instructions, installer should adhere to local codes.

MOUNTING POSITIONS

The BC358 and BC368 can be installed in three positions with respect to airflow direction: Upflow, horizontal and downflow. The general intent of these mounting positions is shown on the cover page of this installation manual. Capacity and efficiency ratings are certified in the vertical installation position. Capacity may be reduced slightly for other installation positions.

The unit is shipped with the coil installed for upflow or borizontal position. It is secured in place by four screws, two on the top left support angles and two on the top right support angles. To convert to counterflow position, remove front access panel, remove the four screws securing coil pan assembly and remove coil.

Place cabinet in desired mounting position, and reinstall coil as shown on cover page. Make sure the coil is installed as shown with respect to blower.

IMPORTANT: The unit as received has coil installed for upflow/horizontal position only. It must be rotated 180 degrees for downflow positions. See note under "Condensate Drain."

DUCTMORK

Design the ductwork according to methods given by the National Warm Air Beating and Air Conditioning Association. When duct runs through unbeated spaces, it should be insulated with a minimum of two inches of insulation. One insulation with a vapor barrier on the outside of the insulation. Flexible joints should be used to connect the ductwork to the equipment in order to keep the noise transmission to a minimum.

FILTER

These units come equipped with a 16" x 20" x 1" thick disposable fiberglass filter and must not be operated without a filter in place. Filter access is gained by removing an angle piece located at the bottom of the main unit cabinet (as viewed in upflow position).

The filter should be replaced periodically throughout the year, as these are year-round heat-cool systems. Special attention should be given to filter cleanliness on any new installation, as airborne dust and debris from recent construction can easily plug a filter in a matter of days.

Dirty filters are the most prevalent and most easily corrected problem to be encountered in any forced air heating and/or cooling system.

LOCATION AND CLEARANCES

All access to the equipment is from one side, and at least 24 inches should be provided from this side for service access.

Unit casing is suitable for 0 inch clearance. The first four (4) feet of ductwork attached to the outlet (supply air) connections of the unit are to have a minimum of one inch clearance, with 0 inch clearance for any remaining ductwork.

CONDENSATE DRAIN

Determine where the drain line will run. This drain line contains cold water and must be insulated to avoid drops of water from dropping on ceiling, etc. A trap <u>must be</u> installed in the primary drain line below the bottom of the drain pan.

For horizontal installations with auxiliary drain pan, a separate drain line should be run from the auxiliary drain pan and terminated where the homeowner can see it. Be certain to show the homeowner the location of the drain line and to explain its purpose. In the event of overflow of primary drain, water will collect in auxiliary pan and run out through the auxiliary drain line.

It is not recommended that any condensate drain lines be connected to sever main. Drain lines must be installed in accordance with local codes.

When installed horizontal in an attic installation, a platform should be made for the unit to sit on. This platform can be made from 3/4 inch plywood or hoards. An auxiliary drain pan should always he used when equipment is installed over a finished living area, to provide protection from water damage in case of plugging of the primary drain line from the unit condensate collection pan.

Secure 4 pieces of cork or live rubber, 4" x 4", of sufficient thickness to allow primary drain to clear edge of auxiliary drain pan, under each corner of the unit.

NOTE: There are two 3/8" copper tubes brazed through the coil drain pan approximately 2 inches from the 3/4 inch main drain pipe coupling. These are overflow drains to control the point at which water would exit the drain pan in the event the primary drain becomes plugged. When ever the coil assembly is removed and reinstalled, make sure the 3/8" drain overflow tubes extend slightly beyond the coil door when in place.

EXPANSION DEVICE (BC36B Only)

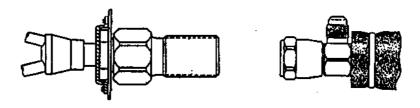
The flow control orifice provides the function of the expansion device as well as distributes the refrigerant equally to all evaporator circuits. It features a "take apart" brass body which houses a removable piston-orifice assembly which meters the proper amount of refrigerant flow and serves as the expansion device. This orifice can be removed and replaced.

The orifice shipped installed with the Flow Control and coil is sized for the most popular evaporator to outdoor unit combination (size to size). Example: Outdoor unit 36UHPQA with BC36B indoor coil. For other combinations of indoor coil to outdoor unit application, the orifice in the flow control device MUST be changed to the size shown in the chart on Table 1. An additional proper sized orifice to be used with each outdoor unit is shipped packaged in the envelop with the installation instructions, with each outdoor unit. The installer should mark the size of the orifice installed on the rating plate of the indoor coil. The diameter of the orifice is stamped on the side of the brass orifice and plastic bag. Example: 063 indicates the orifice is .063" inside diameter.

CAUTION: Be sure there is no dirt introduced into the distributor--orifice assembly. Be sure and install the orifice with the bullet mose pointing in the proper direction as shown in Figure 2. Failure to do so will result in improper operation.

NOTE: If the orifice does not have to be changed, skip the instructions outlined further in Figure 2 and proceed to Figures 3 as applicable.

FIGURE 2 FLOW CONTROL ASSEMBLY FIELD RESTRICTOR REPLACEMENT INSTRUCTIONS



MOTE: DO NOT COMMENT LINE SETS! If restrictor needs to be changed, change out restrictor first.

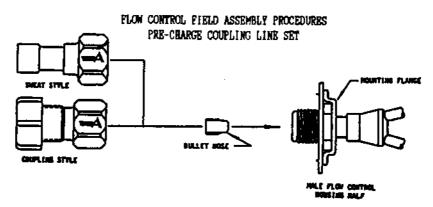
- STEP 1 Remove charge/pressure from indoor unit (if necessary--coupling style).
- STEP 2 Disassembly Flow Control Assembly by turning body hex.
- STEP 4 If existing restrictor has not dropped out of the body when disassembled, remove by using a pin or paper clip. Discard this original restrictor.
- STEP 5 Thread assembly halves together by hand to insure proper mating of threads and tighten until bodies "bottom" or a definite resistance is felt.
- STEP 6 Using a marker pen or ink pen, mark a line lengthwise from the union nut to the bulkhead. Then tighten an additional 1/6 turn (or 1 hex flat). The misalignment of the line will show the emount the assembly has been tightened. This final 1/6 turn is necessary to insure the formulation of the leakproof joint.

STEP 7 Complete piping and installation of unit per installation instructions. Figure 3 for detailed assembly instructions for coupling type coils.

CAUTION WHEN USING 5780 SERIES COUPLINGS

If coupling is every disconnected, the Flow Control Assembly connection may also be loosened. If this should occur, care must be taken to avoid loss of the restrictor. If loosened, repeat Step 5 above to insure the reformation of leakproof joint.

FIGURE 3



- STEP 8 Route the suction and liquid line between the indoor and outdoor unit. CAUTION: Do not connect the tubing to the outdoor unit yet.
- STEP 9 Remove protector caps and plugs.
- STEP 10 If necessary, carefully wipe coupling seats and threaded surfaces with a clean cloth to prevent the inclusion of dirt or any foreign material in the system.
- STEP 11 LUBRICATE male half disphragm and synthetic rubber seal with refrigerant oil. Thread coupling halves together by hand to insure proper mating of threads. Use proper size wrenches (on line set coupling body hex and on union nut) and tighten until coupling bodies "bottom" or a definite resistance is felt.
- STEP 12 Using a marker or ink pen, mark a line lengthwise from the coupling union nut to the bulkhead. Then tighten an additional 1/4 turn; the misalignment of the line will show the amount the coupling has been tightened. This final 1/4 turn is necessary to insure the formation of leakproof joint. If a torque wrench is used, torque values recommends 10 to 12 foot pounds.
- STEP 13 Evacuate the lines and indoor unit before connecting to the outdoor unit. Refer to the installation instructions packed with the outdoor unit for details on setting the proper refrigerant charge. NOTE: The lines and indoor coil do not have to be evacuated if they were not opened to the atmosphere to change the orifice.

INTERCONNECTING TUBING

It is recommended that the interconnecting tubing be the CT series charged tubing sets. This is a precharged tubing set with an insulated suction line. Both suction and liquid line are equipped with the correct quick connect fittings for proper match-up to the indoor and outdoor sections. The CT series is available in standard tubing lengths of 15, 25, 35 and 45 feet.

NOTE: Applicable installation codes <u>may</u> limit installation to single story structure only if return air duct is not used.

THERMOSTAT LOW-VOLTAGE WIRING

A 24V terminal block is mounted on the inside of the unit. There is also a 24V terminal block located in the outdoor section of remote heat pumps and two tagged 24V wires in the outdoor section of remote air conditioners. Wire sizing is determined from the table below for 24V control circuit wiring.

Transformer VA	<u>PLA € 240Y</u>	Maximum Distance in Feet 1
55	2.3	20 gauge - 45
		18 gauge - 60
		16 gauge - 100
		14 gauge - 160
		12 gauge - 250

1 For split systems, this is the maximum distance between the indoor section and outdoor section, and between the indoor section and thermostat each could be up to 90 feet for 18 gauge and 65 feet for 20 gauge on 40VA transformer. With a 65VA transformer and 20 gauge wire, the maximum distance is 40 feet.

Specific control circuit wiring diagrams for the various applications are referenced in the sections titled "AIR CONDITIONING WITH ELECTRIC HEAT and HEAT PUMP WITH ELECTRIC HEAT." These diagrams detail the recommended controls and wiring to allow the best possible operation of the different types of systems with respect to emergy conservation while still maintaining close comfort levels for the occupant.

TWO SPEED BLOWER MOTOR

The BC35B and BC36B both have a two speed, 1/3 hp blower motor.

Motor lead wire identification is as follows:

Common	Yellow
High	Black
Low	Red
Capacitor	Brown (2)

Both models are shipped wired on high speed. The unused red (low speed) lead wire is taped off. If low speed operation is desired, remove and tape black wire from terminal com, on blower relay and connect red wire to terminal com. Refer to wiring diagrams for electrical circuitry and to airflow charts for capabilities and limitations on blower speeds, static pressures and air delivery versus installed KW heaters.

BLOWER MOTOR DILERS

The blower motors should be oiled twice a year with approximately 8 - 10 drops of 20 weight motor oil. DO NOT over oil and DO NOT use 3-in-1 oil or any other light oil.

IMPORTANT NOTE FOR DOMNFLOW INSTALLATION: Loosen belly-hand bolt securing motor enough to rotate motor so oilers are above either 3 or 9 o'clock position so oilers do not drain and to permit reciling.

TABLE 8				
Mode]	BC35B	BC36B		
Rlectrical Rating60HZ	240V	240V		
·	1 PE	1 PH		
Operating Voltage Range	197-253	197-253		
Pusing and Ampacity	See Electri	c Beat Table		
Blower and Motor	10m9 Direct	10x9 Direct		
MotorRPM/Speed	1075/2 Speed	1075/2 Speed		
MotorHP/AMPS	1/3 / 2.1	1/3 / 2.1		
Evaporator Face Area		Ţ		
Sq. Ft./Row/Fins Per Inch	3/3/14	3.12/3/10		
FilterPerm, or Throwaway	16x20x1 T	16x20x1 T		
Refrigerant Cont./R22 Charge	Capillary	Changeable		
	Tube	Orifice		
Maximum Blectric Beat	18KW	18KW		

TABLE 9
OPTIONAL FIELD-INSTALLED RESCURE HEATER TABLE

Heater Package Model No.	Beater Package Volts/Phase		· Capacity Volts	Htr. KW +	Capacity; Volts		Overcurrnt		Minimum Circuit Ampacity (3)
		XX	BTU	XH.	BTU	Г	Device		mpactor (g)
EH3BA-A05N,C	240/208-1	4.5	15345	3,38	11525	18.8/16.3	30	i	28.1
EE3BA-A09M, C	240/208-1	9	30690	6.75	23018	37.5/32.5	50	1	51.4
8838A-A14#,C	240/208-1	13.5	46035	10.13	34543	56.3/48.7	80	î	74.9
EXISBA-A18M,C	240/208-1	18	61390	13.5	46035	75/64.9	100	1	98.3

³ Includes blower motor

UNIT OPERATION

The controls in the BC358 and BC36B provide for manual/auto fan control in addition to the staging of the installed electric heat. Staging is accomplished in basic 9KM increments, that is, each two (2) heating elements are controlled by one heat relay.

TABLE 10 HEATER ELEMENT STAGING

HIDRITAK BURMA	it ottootto
Heater KW	Stages
5, 9 14, 18	1 2

Heater stage designations are as follows on the 24V terminal strip:

112	lst	stage
M3	2nd	stage
DH	3rd	stage

AIR CONDITIONING WITH ELECTRIC HEAT

Typical situations would be to utilize a 1-stage cool, 1-stage heat wall thermostat for 5 and 9KM applications, and a 1-stage cool/2-stage heat thermostat for 14 and 18KM applications. Listed below are the appropriate control circuit connection diagrams based upon KM rating and also the number of field installed A-22 outdoor thermostata, part No. 8408-001, required for each application.

TABLE 11					
KW Rating	Connection Diagram	Quantity Of A-22's			
0	CCD-1	0			
5,9	CCD-2	0			
14,18	CCD-3	0			

HEAT PUMP WITH ELECTRIC HEAT

The system and its safety controls are designed in such a manner that the heat pump and up to 18KW of the resistance strip heaters can operate at the same time, being brought on in stages.

Listed below are the appropriate control circuit connection diagrams based on KW rating, and also the number of field installed A-22 outdoor thermostats, part No. 8408-001 (10 - 45 degree F range), or 8408-005 (0 - 30 degree F range), recommended for each application.

TABLE 12				
KW Rating	Connection Diagram	Quantity Of A-22's		
•	AGD E			
Ų	CCD-5	0 .		
5,9	CCD-6	1		
14,18	CCD-7	1		

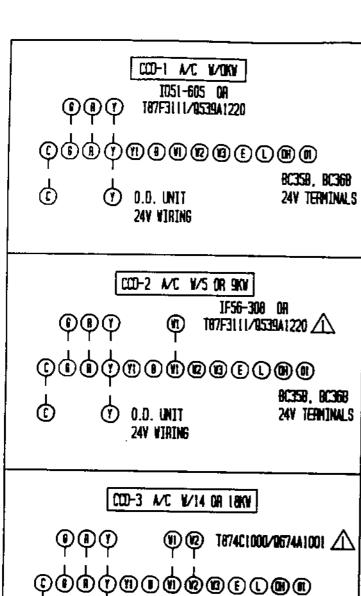
In geographical areas where compressor cut-off would not be required because winter temperatures below 10 degrees F are never experienced, disregard the compressor cut-off wiring shown on the control circuit diagram.

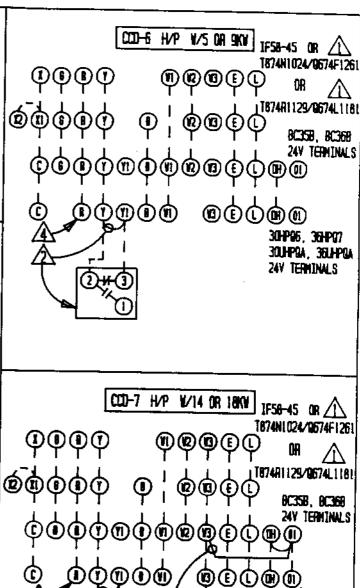
WALL THERMOSTATS

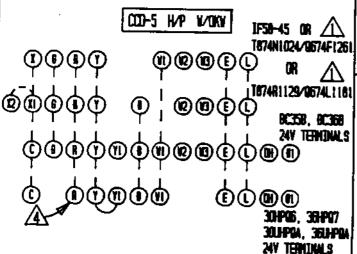
The following wall thermostats and subbases should be used as indicated, depending on the application.

<u> </u>	<u> </u>	- TABLE 13		
	<u> </u>	AIR CONDITIONING THERMOSTATS		
Part No.	Model No.	Description		
8403-002	T87F3111	TERRHOSTAT1 stq. heat, adj. heater, Mercury		
8404-003	Q539A1220	SUBBASESystem Heat-Off-Cool		
8403-008	ID51-605	Fan: On-Auto THERMOSTAT1 stg. cool, System w/Off Sw. Snap Action		
0100	1221-023	Pan: Auto-On		
8403-009	1756-318	THERMOSTAT1 st. cool, 1 stg. heat, Adj. heater		
		Kercury		
		System: Heat-Off-Cool		
*	 	Fan: Auto-On		
8403-019	T874C1000	THERMOSTAT1 stg. cool, 2 stg. heat, Adj. heater,		
9404 M3	~7411001	Mercury		
8404-012	Q674A1001	SUBBASESystem: Heat-Auto-Cool		
	 	Fan: Auto-On		
	HEAT PUMP THERMOSTATS			
Part No.	Model No.	Description		
8403-017	T874R1129	THERMOSTAT1 stg. cool, 2 stg. heat, 1st stage fixed,		
8404-009	067411101	2nd stq, adj. heat anticipators SUBBASESystem switch: Em. Heat-Heat-Off-Cool		
01U1-W7	Q674L1181	SUBBASESystem switch: Em. Heat-Heat-Off-Cool Fan switch: On-Auto		
		SPECIAL FEATURE: Manual Changeover (Non-Cycling Rev. Valve)		
	1	Em, heat light and System check light		
8403-018	78741(1024	THERMOSTAT1 stg. cool, 2 stg. heat, 1st stage fixed,		
		2nd stq. adj., heat anticipators		
8404-010	Q674F1261	SUBBASESystem switch: Off-Cool-Auto-Heat-Em.Ht.		
		Pan switch: On-Auto		
		SPECIAL PRATURE: Auto system changeover, Em.		
		heat light and System check light		
8403-024	1 P58-4 5	THERMOSTAT1 stg. cool, 2 stg. heat, 1st stage fixed,		
		2nd stg. adj. heater		
		System switch: Em. Heat-Heat-Off-Cool		
		Fan Switch: On-Auto		

MARNING: Only the thermostats and subbases listed in Table 13 have been approved for use with the 24UHPQA, 30UHPQA, and 36UHPQA models. Use of any other thermostat/subbase combination can cause a condition of mo blower operation during defrost cycle when auxiliary heat is energized causing an unsafe condition and possible fire.

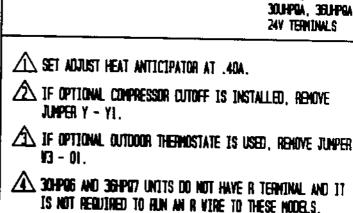






O.D. UNIT 24V VIRING

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30HP06, 36HP07

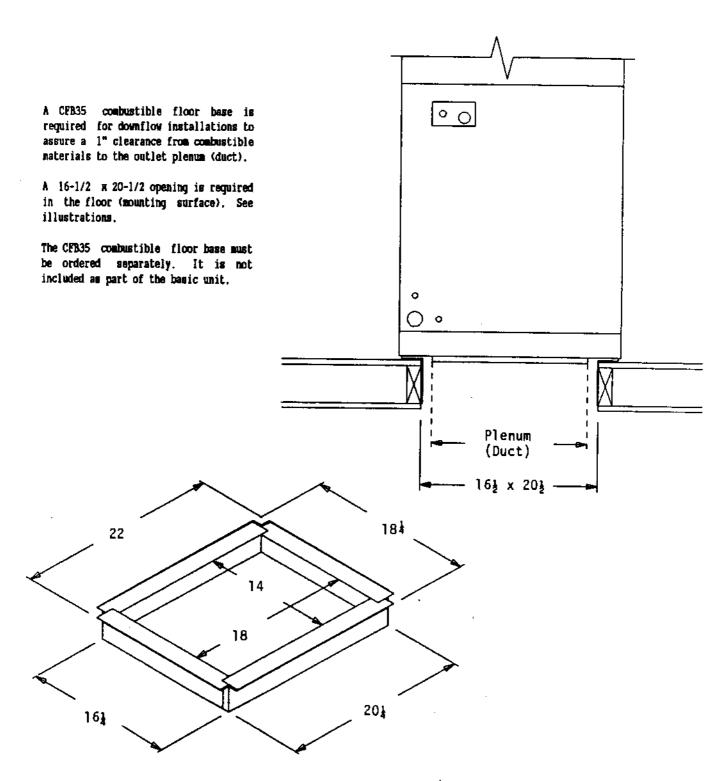
BC35B. BC36B

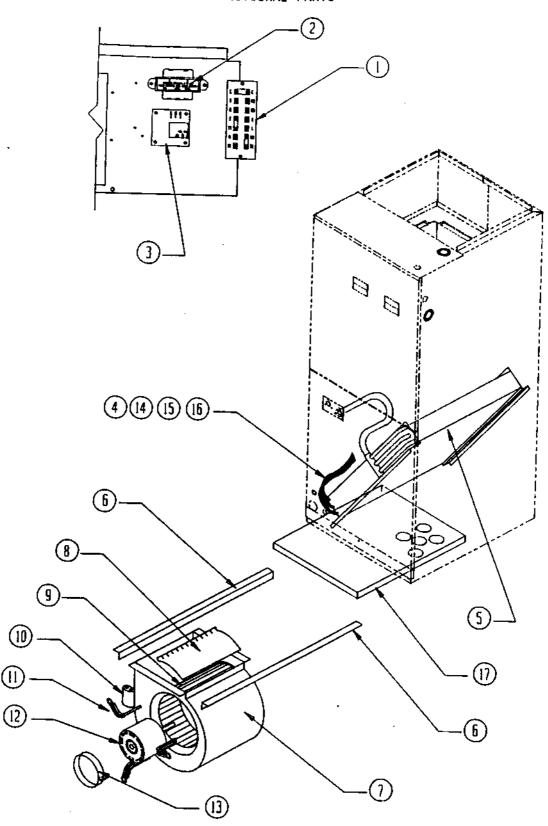
24V TERMINALS

DOWNFLOW (COUNTERFLOW) INSTALLATION

BC35B and BC36B

FIGURE 4

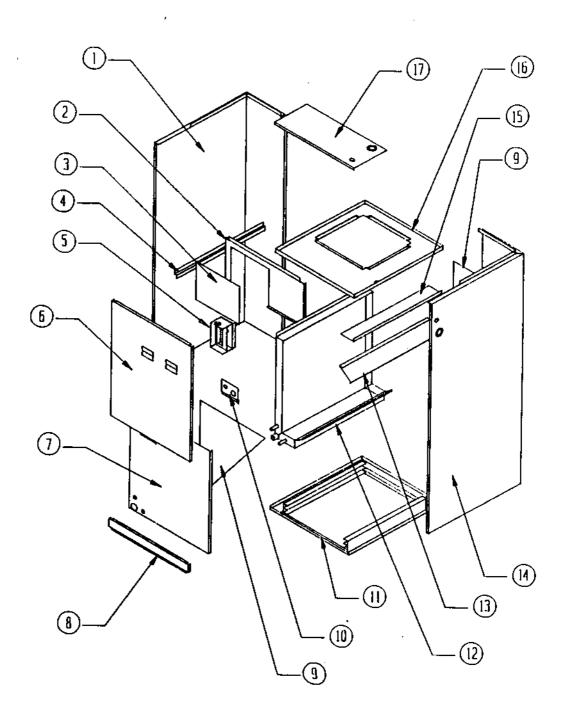




BC35, BC36

PARTS LIST FUNCTIONAL PARTS

ŧ	Τ	1	Date: 04	/18/89
Dwg. No.	Part No.	Description	BC358	BC36B
1	8607-019	Terminal Strip		
2	8407-035	Transformer 55VA	x	x
3	8201-056	Solid State Blower Control	ж	X
4	5811-010	Capillary Tube	3	
4	5625-009	Distributor		X
5	5060-055	Evaporator Coil	x	
5	5060-054	Evaporator Coil		x
6	104-813	Blower Angle	2	2
7	151-087	Blower Housing Assembly	X	X
8	144-128	Blover Diffuser		×
9	5152-014	Blower Wheel 10 x 9	ж	×
10	8552-025	Capacitor 7-1/2 / 440V	х	x
11	8200-034	Notor Nount Arm	3	3
12	8105-022	Notor 1/3 EP 230V	x	x
13	8200-033	Notor Hount Band		x
14	5625-072	.072 Orifice		X
15	5625-002	5782 Coupling to R.H. Thread Adapter		Ж
16	5651-036	Check Valve	ж	
17	7004-010	Filter 16 x 20 x 1	x	ж
	4066-110	Wiring Diagram		x



BC35, BC36

PARTS LIST PARTICATED PARTS

i	1	<u> </u>	Date: 02,	/14/89
Dug. No.	Part No.	Description	BC358	BC36B
1	500-194	Left Side	x	X
2	120-139	Partition	ж	×
3	136-141	Block Off Plate	X	×
4	102-392	Coil Assembly Support (Left Side)	х	<u> </u>
5	117-116	Low Voltage Box Assembly	X	×
6	552-159	Opper Door	į x	x
7	552-160	Lower Door	X	x
8	552-161	Filter Door	х	x
9	136-139	Coil Support	X	K
10	140-149	Quick Connect Support	X	×
11	127-154	Lower Base Assembly	į x	X
12	123-071	Water Pan Assembly	_ д	x
13	136-140	Top Coil Fill	ж	X
14	500-193	Right Side	я	×
15	140-147	Coil Assembly Support (Right Side)	x	X
16	126-155	Blower Base	x i	×
17	107-117	Top Assembly		x

