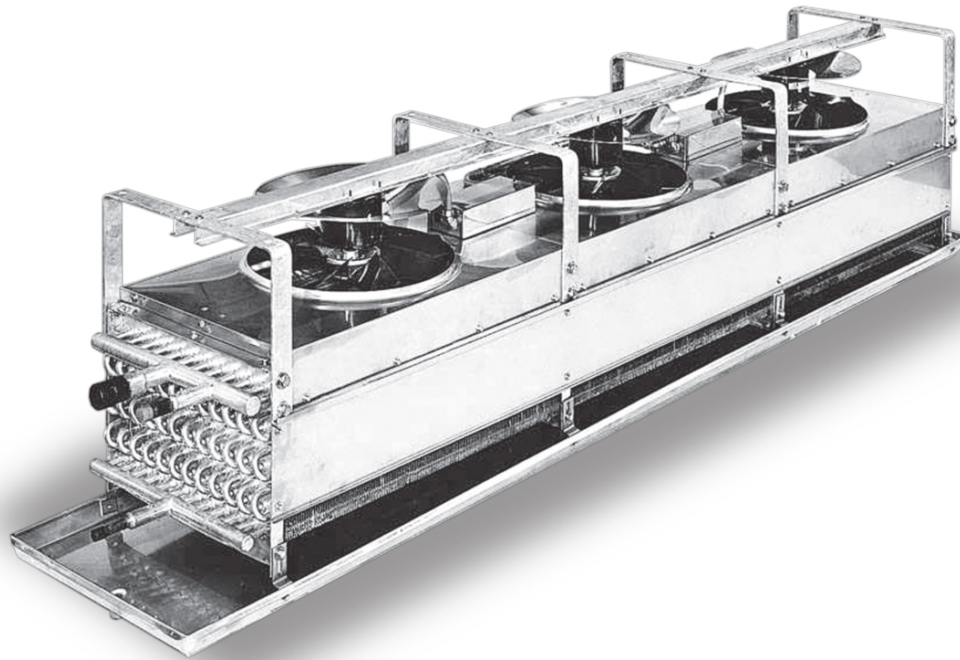


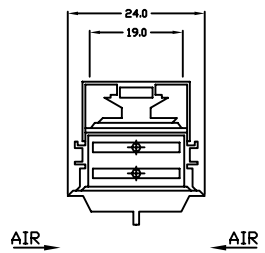
BTR Series

UNIT COOLER

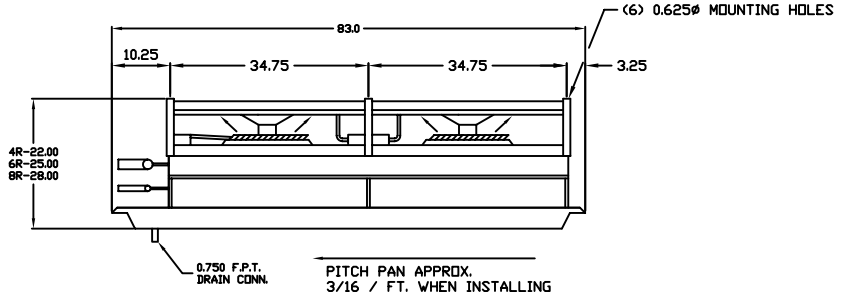
ENGINEERING-ELECTRICAL SCHEMATIC DETAILS



NOTE: DIMENSIONAL DRAWING FOR QUOTATION PURPOSES ONLY. DO NOT USE FOR CONSTRUCTION.



END VIEW

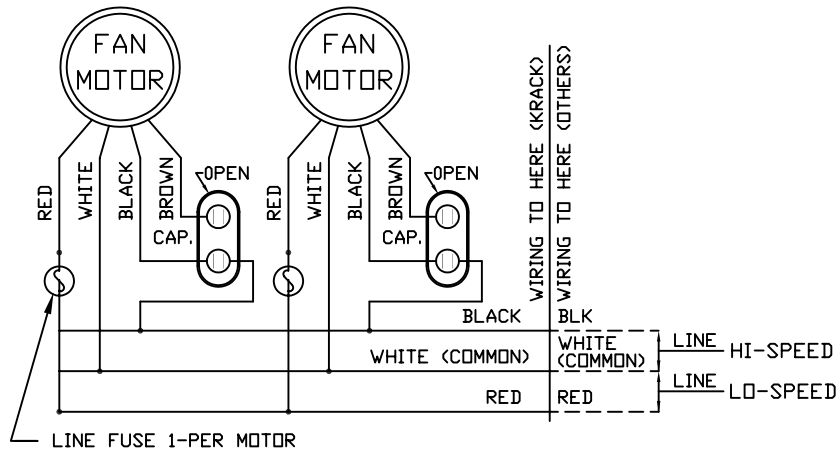


FRONT VIEW

BTR 24, 26, 28

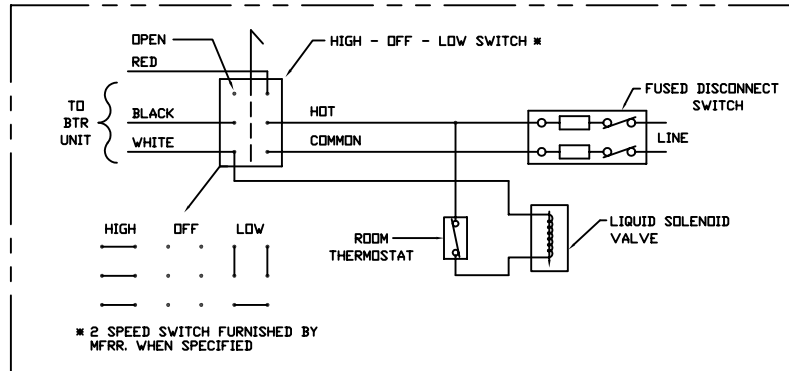
DESIGN SPECIFICATIONS	UNITS
UNIT COOLING CAPACITY	BTUH
ROOM TEMPERATURE	°F
SUCTION TEMPERATURE	°F
REFRIGERANT	-
AIR FLOW RATE	CFM
EXTERNAL STATIC PRESSURE	INWG
NOMINAL FIN SPACING	FINS/IN
TOTAL SURFACE AREA	FT ²
APPROXIMATE WEIGHT	LBS.

SALES ORDER:	LINE:	NO.	CHANGE DESCRIPTION	DATE	CHK'D
CUSTOMER P.O.:		REVISIONS			
CUSTOMER NAME:					
JOB NAME:					
TAG UNIT:					
MODEL:					
ITEM NO.:					
NO. REQ'D:	DATE:	DRAWN:			REV.
SHEET					
TOLERANCE: ±					



HP	FLA-EACH	FLA-TOTAL
	115/1	115/1
1/6	2.50	5.00

HP	FLA-EACH	FLA-TOTAL
	230/1	230/1
1/6	1.25	2.50



2 SPEED FAN CONTROL DIAGRAM
(MANUAL SWITCHING)
WIRING AND COMPONENTS
SHOWN BY OTHERS

WIRING BY OTHERS -----

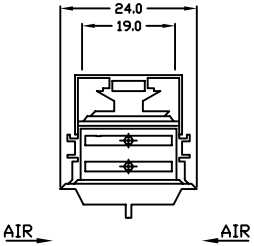
WIRING BY KRACK _____

NOTES:

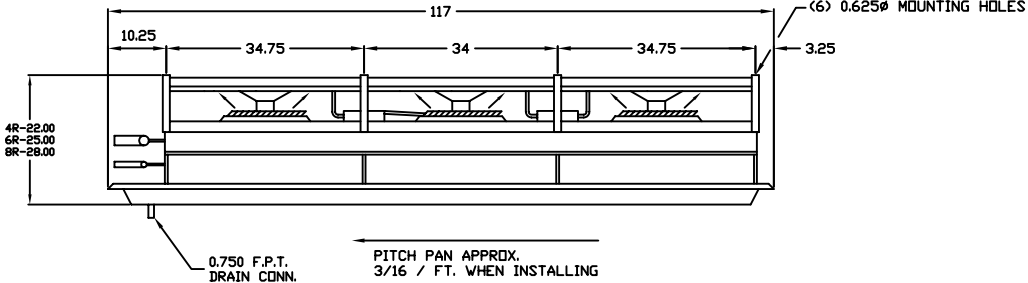
- **VOLTAGE:** 115-230/60/1
- **MOTORS:** ARE PERMANENT-SPLIT CAPACITOR-4 LEAD TYPE
CAPACITORS: 5 MFD, 370 VA
- **FAN MOTORS:**
 - (1) HAVE BUILT-IN OVERLOAD PROTECTION.
 - (2) FUSES SHOWN BETWEEN MOTORS, ARE FOR PROTECTION FROM EXCESSIVE CLOSED LOOP CURRENTS THAT COULD BE GENERATED BETWEEN PARALLEL CONNECTED MOTORS DUE TO TRANSFORMER ACTION IN THE TAPPED LOW SPEED WINDINGS.
 - (3) FOR 2 SPEED APPLICATIONS WHERE FANS WILL RUN CONTINUOUSLY USE A SEPARATE MANUAL SWITCH FOR EACH UNIT.
 - (4) FOR 2 SPEED APPLICATIONS ON MULTIPLE UNITS WHERE AUTOMATIC SWITCHING IS REQUIRED, OR WHERE FANS MUST BE SHUT OFF DURING DEFROST, USE A SEPARATE SWITCHING RELAY FOR EACH UNIT WITH ONE N.C. & ONE N.C. CONTACT BETWEEN HIGH & LOW SPEED WIRES.
 - (5) WHENEVER POSSIBLE ALWAYS START MOTOR IN HIGH SPEED.
 - (6) CONSULT FACTORY FOR SUGGESTED WIRING.

JOB NO.:		NO.	CHANGE DESCRIPTION	DATE	CK'D
CUSTOMER P.O.:		REVISIONS			
CUSTOMER NAME:					
JOB NAME:					
TAG UNIT:					
MODEL:					
ITEM NO.:					
NO. REQ'D:	DATE:	DRAWN:			REV.
SHEET OF					
TOLERANCE:	± 0.500				

NOTE: DIMENSIONAL DRAWING FOR QUOTATION PURPOSES ONLY. DO NOT USE FOR CONSTRUCTION.



END VIEW

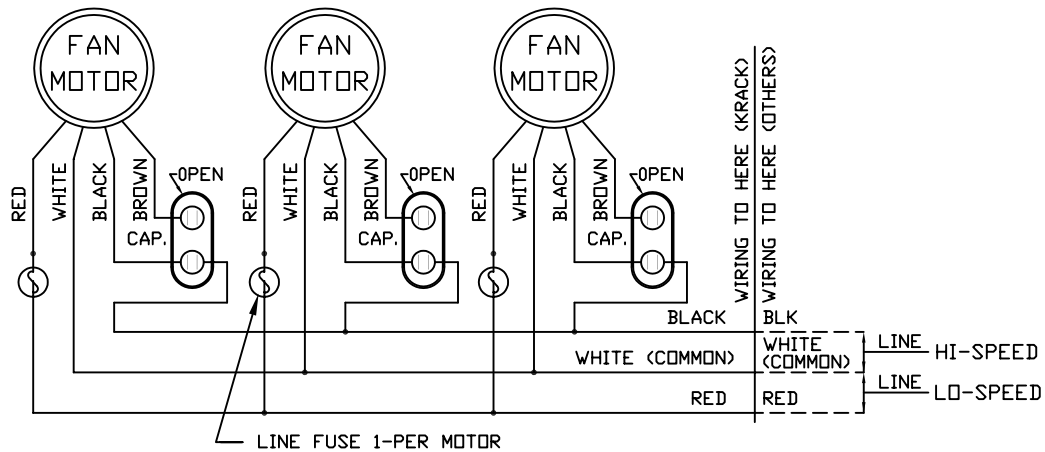


BTR 34, 36, 38

FRONT VIEW

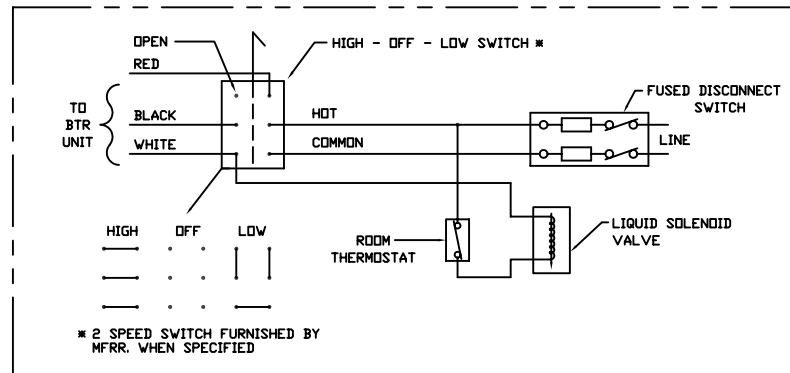
DESIGN SPECIFICATIONS	UNITS
UNIT COOLING CAPACITY	BTUH
ROOM TEMPERATURE	°F
SUCTION TEMPERATURE	°F
REFRIGERANT	-
AIR FLOW RATE	CFM
EXTERNAL STATIC PRESSURE	INWG
NOMINAL FIN SPACING	FINS/IN
TOTAL SURFACE AREA	FT ²
APPROXIMATE WEIGHT	LBS.

JOB NO.:		NO.	CHANGE DESCRIPTION	DATE	CK'D
CUSTOMER P.O.:		REVISIONS			
CUSTOMER NAME:					
JOB NAME:					
TAG UNIT:					
MODEL:					
ITEM NO.:					
NO. REQ'D:	DATE:	DRAWN:			
SHEET	OF				REV.
TOLERANCE: ±					



HP	FLA-EACH	FLA-TOTAL
	115/1	115/1
1/6	2.50	7.50

HP	FLA-EACH	FLA-TOTAL
	230/1	230/1
1/6	1.25	3.75



2 SPEED FAN CONTROL DIAGRAM
(MANUAL SWITCHING)
WIRING AND COMPONENTS
SHOWN BY OTHERS

WIRING BY OTHERS -----
WIRING BY KRACK _____

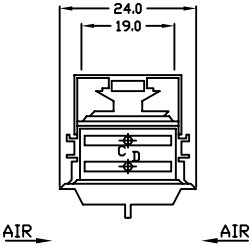
NOTES:

- **VOLTAGE:** 115-230/60/1
- **MOTORS:** ARE PERMANENT-SPLIT CAPACITOR-4 LEAD TYPE CAPACITORS: 5 MFD, 370 VA
- **FAN MOTORS:**

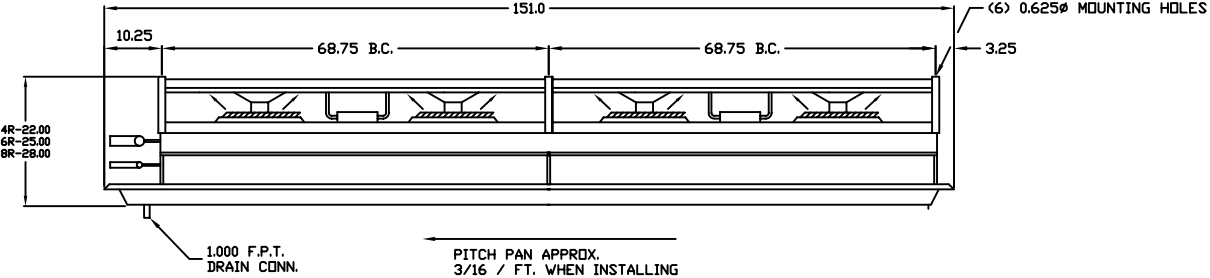
- (1) HAVE BUILT-IN OVERLOAD PROTECTION.
- (2) FUSES SHOWN BETWEEN MOTORS, ARE FOR PROTECTION FROM EXCESSIVE CLOSED LOOP CURRENTS THAT COULD BE GENERATED BETWEEN PARALLEL CONNECTED MOTORS DUE TO TRANSFORMER ACTION IN THE TAPPED LOW SPEED WINDINGS.
- (3) FOR 2 SPEED APPLICATIONS WHERE FANS WILL RUN CONTINUOUSLY USE A SEPARATE MANUAL SWITCH FOR EACH UNIT.
- (4) FOR 2 SPEED APPLICATIONS ON MULTIPLE UNITS WHERE AUTOMATIC SWITCHING IS REQUIRED, OR WHERE FANS MUST BE SHUT OFF DURING DEFROST, USE A SEPARATE SWITCHING RELAY FOR EACH UNIT WITH ONE N.C. & ONE N.C. CONTACT BETWEEN HIGH & LOW SPEED WIRES.
- (5) WHENEVER POSSIBLE ALWAYS START MOTOR IN HIGH SPEED.
- (6) CONSULT FACTORY FOR SUGGESTED WIRING.

JOB NO.:	NO.	CHANGE DESCRIPTION	DATE	CK'D
CUSTOMER P.O.:	REVISIONS			
CUSTOMER NAME:				
JOB NAME:				
TAG UNIT:				
MODEL:				
ITEM NO.:				
NO. REQ'D:	DATE:	DRAWN:		
SHEET OF				REV.
TOLERANCE: ±				

NOTE: DIMENSIONAL DRAWING FOR QUOTATION PURPOSES ONLY. DO NOT USE FOR CONSTRUCTION.



END VIEW

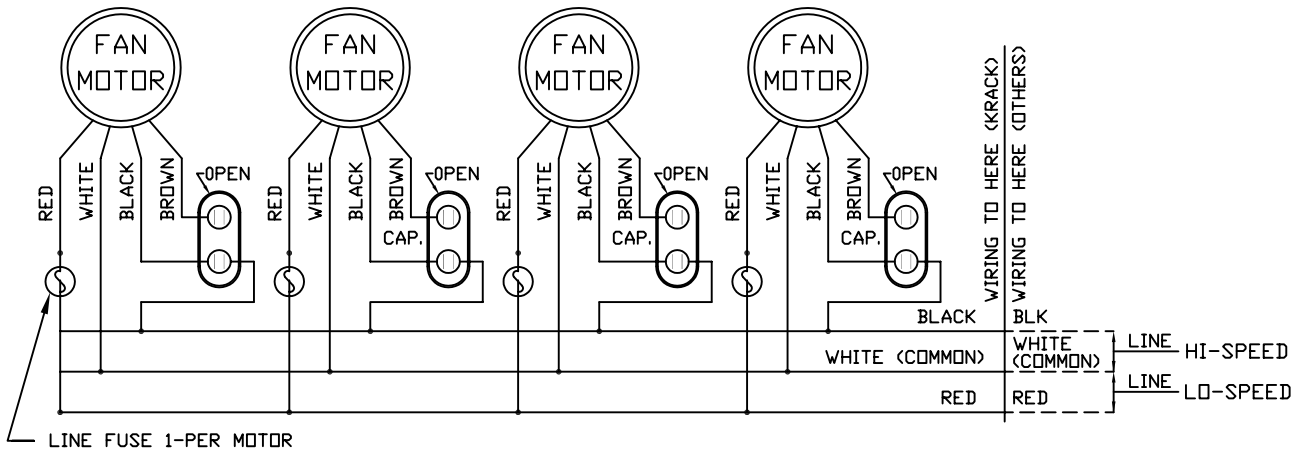


BTR 44, 46, 48

FRONT VIEW

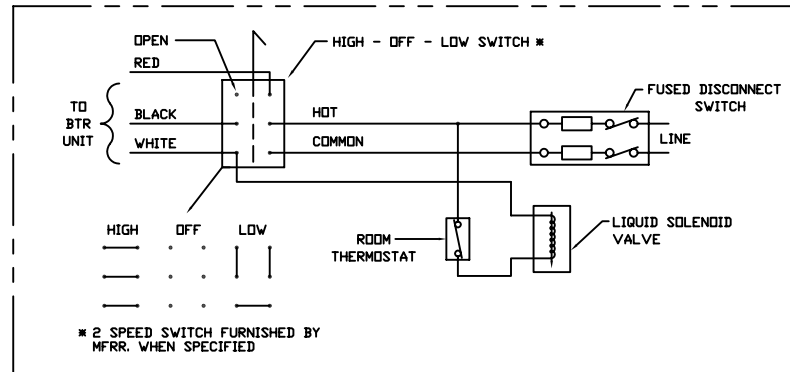
DESIGN SPECIFICATIONS		UNITS
UNIT COOLING CAPACITY		BTUH
ROOM TEMPERATURE		*F
SUCTION TEMPERATURE		*F
REFRIGERANT		-
AIR FLOW RATE		CFM
EXTERNAL STATIC PRESSURE		INWG
NOMINAL FIN SPACING		FINS/IN
TOTAL SURFACE AREA		FT ²
APPROXIMATE WEIGHT		LBS.

JOB NO.:		NO.		CHANGE DESCRIPTION	DATE	CK'D
CUSTOMER P.O.:		REVISIONS				
CUSTOMER NAME:						
JOB NAME:						
TAG UNIT:						
MODEL:						
ITEM NO.:						
NO. REQ'D:	DATE:	DRAWN:				
SHEET	OF					REV.
TOLERANCE: ± 0.500						



HP	FLA-EACH	FLA-TOTAL
	115/1	115/1
1/6	2.50	10.00

HP	FLA-EACH	FLA-TOTAL
	230/1	230/1
1/6	1.25	5.00



2 SPEED FAN CONTROL DIAGRAM
(MANUAL SWITCHING)
WIRING AND COMPONENTS
SHOWN BY OTHERS

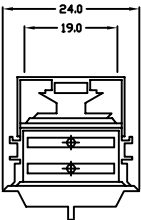
WIRING BY OTHERS -----
WIRING BY KRACK _____

NOTES:

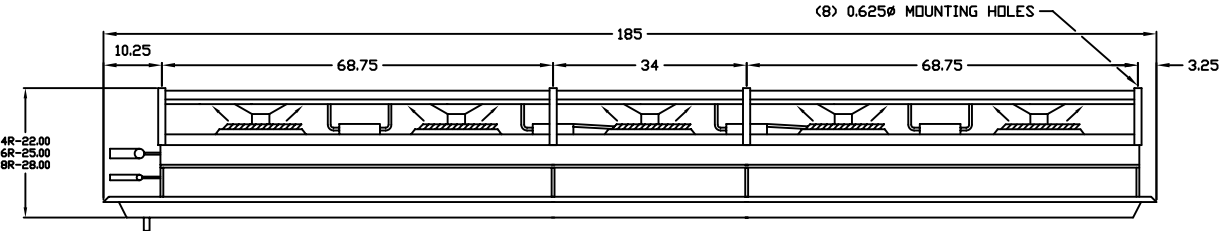
- **VOLTAGE:** 115-230/60/1
- **MOTORS:** ARE PERMANENT-SPLIT CAPACITOR-4 LEAD TYPE CAPACITORS: 5 MFD, 370 VA
- **FAN MOTORS:**
 - (1) HAVE BUILT-IN OVERLOAD PROTECTION.
 - (2) FUSES SHOWN BETWEEN MOTORS, ARE FOR PROTECTION FROM EXCESSIVE CLOSED LOOP CURRENTS THAT COULD BE GENERATED BETWEEN PARALLEL CONNECTED MOTORS DUE TO TRANSFORMER ACTION IN THE TAPPED LOW SPEED WINDINGS.
 - (3) FOR 2 SPEED APPLICATIONS WHERE FANS WILL RUN CONTINUOUSLY USE A SEPARATE MANUAL SWITCH FOR EACH UNIT.
 - (4) FOR 2 SPEED APPLICATIONS ON MULTIPLE UNITS WHERE AUTOMATIC SWITCHING IS REQUIRED, OR WHERE FANS MUST BE SHUT OFF DURING DEFROST, USE A SEPARATE SWITCHING RELAY FOR EACH UNIT WITH ONE N.C. & ONE N.C. CONTACT BETWEEN HIGH & LOW SPEED WIRES.
 - (5) WHENEVER POSSIBLE ALWAYS START MOTOR IN HIGH SPEED.
 - (6) CONSULT FACTORY FOR SUGGESTED WIRING.

JOB NO.:		NO.	CHANGE DESCRIPTION	DATE	CK'D
CUSTOMER P.O.:		REVISIONS			
CUSTOMER NAME:					
JOB NAME:					
TAG UNIT:					
MODEL:					
ITEM NO.:					
NO. REQ'D:	DATE:	DRAWN:			
SHEET OF					REV.
TOLERANCE:	± 0.500				

NOTE: DIMENSIONAL DRAWING FOR QUOTATION PURPOSES ONLY. DO NOT USE FOR CONSTRUCTION.



END VIEW



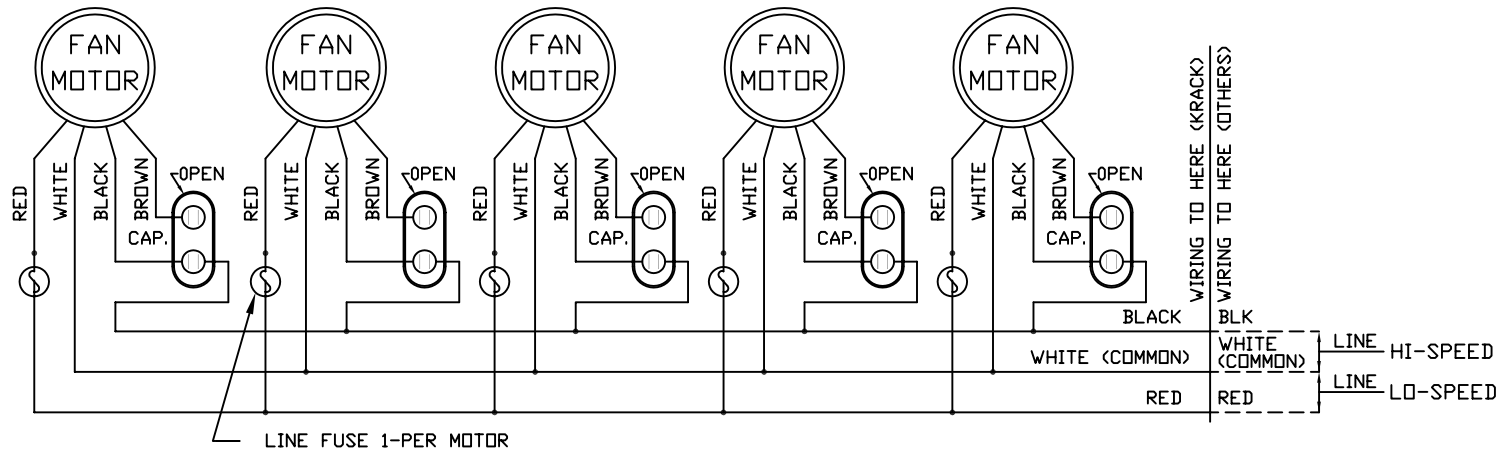
PITCH PAN APPROXIMATELY
3/16 / FT. WHEN INSTALLING

BTR 54, 56, 58

FRONT VIEW

DESIGN SPECIFICATIONS		UNITS
UNIT COOLING CAPACITY		BTUH
ROOM TEMPERATURE		°F
SUCTION TEMPERATURE		°F
REFRIGERANT		-
AIR FLOW RATE		CFM
EXTERNAL STATIC PRESSURE		INWG
NOMINAL FIN SPACING		FINS/IN
TOTAL SURFACE AREA		FT ²
APPROXIMATE WEIGHT		LBS.

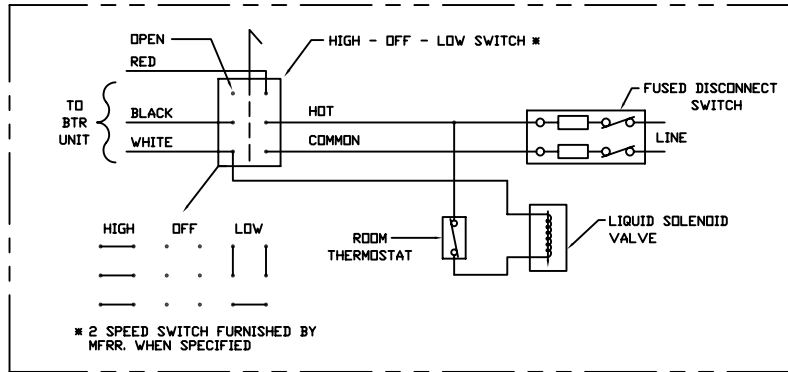
JOB NO.:		NO.		CHANGE DESCRIPTION	DATE	CK'D
CUSTOMER P.O.:		REVISIONS				
CUSTOMER NAME:						
JOB NAME:						
TAG UNIT:						
MODEL:						
ITEM NO.:						
NO. REQ'D:	DATE:	DRAWN:				
SHEET OF						REV.
TOLERANCE: ±						



LINE FUSE 1-PER MOTOR

HP	FLA-EACH	FLA-TOTAL
1/6	115/1	115/1
1/6	2.50	12.50

HP	FLA-EACH	FLA-TOTAL
1/6	230/1	230/1
1/6	1.25	6.25



2 SPEED FAN CONTROL DIAGRAM
(MANUAL SWITCHING)
WIRING AND COMPONENTS
SHOWN BY OTHERS

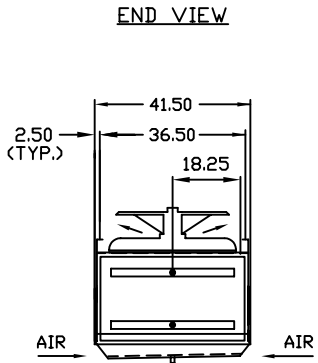
WIRING BY OTHERS -----
WIRING BY KRACK _____

NOTES:

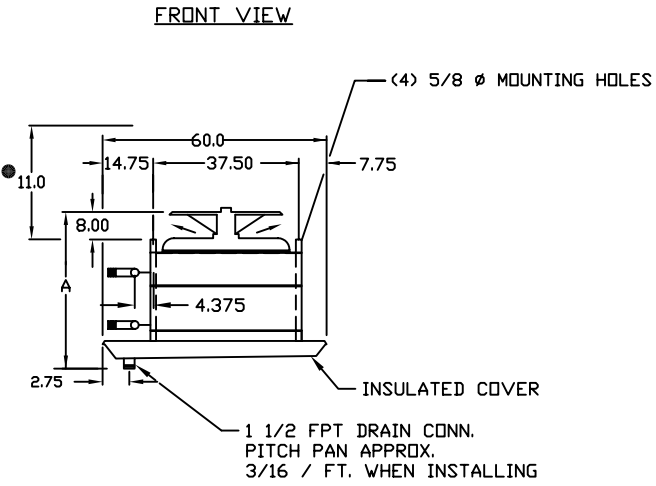
- **VOLTAGE:** 115-230/60/1
- **MOTORS:** ARE PERMANENT-SPLIT CAPACITOR-4 LEAD TYPE CAPACITORS: 5 MFD, 370 VA
- **FAN MOTORS:**
 - (1) HAVE BUILT-IN OVERLOAD PROTECTION.
 - (2) FUSES SHOWN BETWEEN MOTORS, ARE FOR PROTECTION FROM EXCESSIVE CLOSED LOOP CURRENTS THAT COULD BE GENERATED BETWEEN PARALLEL CONNECTED MOTORS DUE TO TRANSFORMER ACTION IN THE TAPPED LOW SPEED WINDINGS.
 - (3) FOR 2 SPEED APPLICATIONS WHERE FANS WILL RUN CONTINUOUSLY USE A SEPARATE MANUAL SWITCH FOR EACH UNIT.
 - (4) FOR 2 SPEED APPLICATIONS ON MULTIPLE UNITS WHERE AUTOMATIC SWITCHING IS REQUIRED, OR WHERE FANS MUST BE SHUT OFF DURING DEFROST, USE A SEPARATE SWITCHING RELAY FOR EACH UNIT WITH ONE N.C. & ONE N.C. CONTACT BETWEEN HIGH & LOW SPEED WIRES.
 - (5) WHENEVER POSSIBLE ALWAYS START MOTOR IN HIGH SPEED.
 - (6) CONSULT FACTORY FOR SUGGESTED WIRING.

JOB NO.:		NO.		CHANGE DESCRIPTION	DATE	CK'D
CUSTOMER P.O.:		REVISIONS				
CUSTOMER NAME:						
JOB NAME:						
TAG UNIT:						
MODEL:						
ITEM NO.:						
NO. REQ'D:	DATE:	DRAWN:				
SHEET OF						REV.
TOLERANCE: ±						

NOTE: DIMENSIONAL DRAWING FOR QUOTATION PURPOSES ONLY. DO NOT USE FOR CONSTRUCTION.



BTR 114-6-8

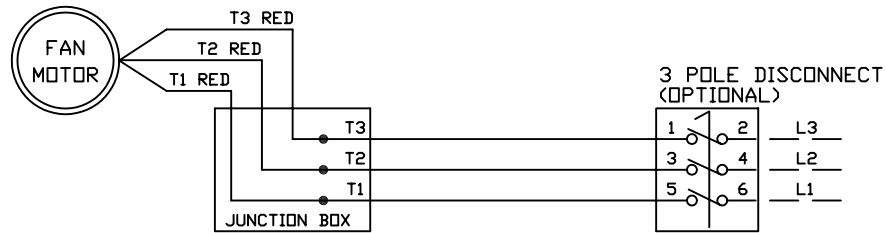


4R-A=33.5
6R-A=36.5
8R-A=39.5

DESIGN SPECIFICATIONS	UNITS
UNIT COOLING CAPACITY	BTUH
ROOM TEMPERATURE	*F
SUCTION TEMPERATURE	*F
REFRIGERANT	-
AIR FLOW RATE	CFM
EXTERNAL STATIC PRESSURE	INWG
NOMINAL FIN SPACING	FINS/IN
TOTAL SURFACE AREA	FT ²
APPROXIMATE WEIGHT	LBS.

● = MINIMUM REQUIRED FOR COMPLETE FAN AND MOTOR ASSEMBLY REMOVAL

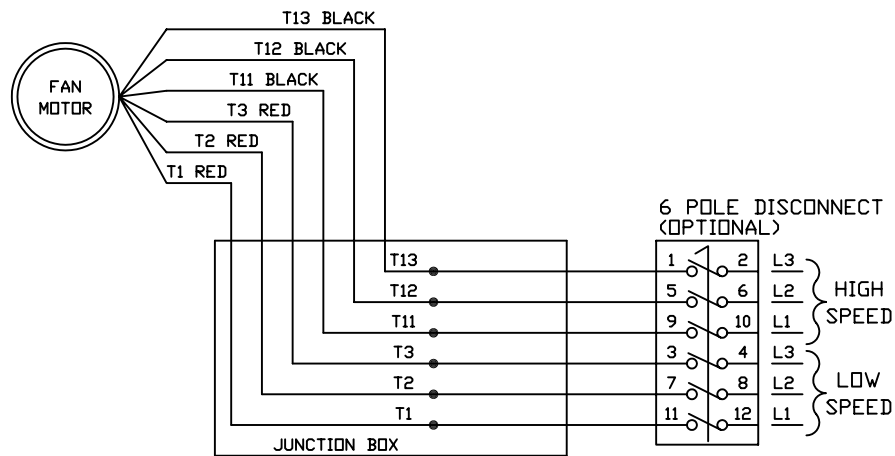
JOB NO.:		NO.		CHANGE DESCRIPTION	DATE	CK'D
CUSTOMER P.O.:		REVISIONS				
CUSTOMER NAME:						
JOB NAME:						
TAG UNIT:						
MODEL:						
ITEM NO.:						
NO. REQ'D:	DATE:	DRAWN:				
SHEET	OF					REV.
TOLERANCE: (INCHES)		± 0.500				



HP	FLA-EACH	FLA-TOTAL
	230/3	230/3
1/2	2.00	2.00

HP	FLA-EACH	FLA-TOTAL
	460/3	460/3
1/2	1.00	1.00

1 FAN WIRING DIAGRAM W/ OPTIONAL DISCONNECT



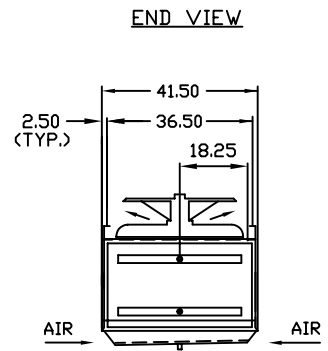
1 FAN 2 SPEED WIRING DIAGRAM W/ OPTIONAL DISCONNECT

WIRING BY OTHERS - - - - -

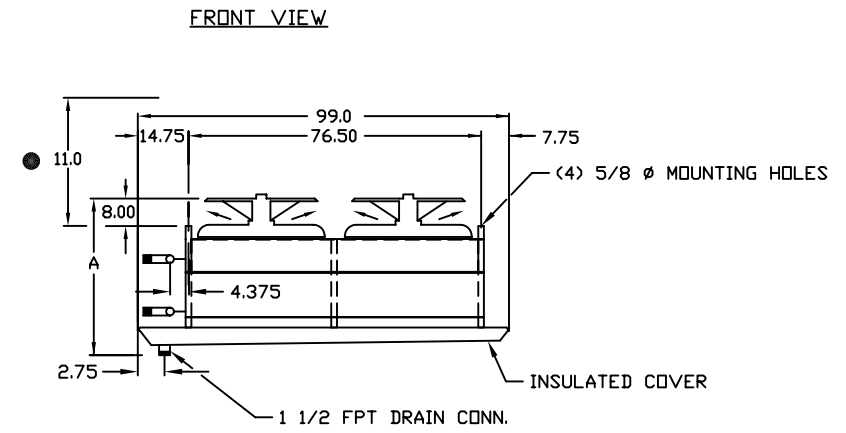
WIRING BY KRACK _____

JOB NO.:		NO.	CHANGE DESCRIPTION	DATE	CK'D
CUSTOMER P.O.:		REVISIONS			
CUSTOMER NAME:					
JOB NAME:					
TAG UNIT:					
MODEL:					
ITEM NO.:					
NO. REQ'D:		DATE:		DRAWN:	
SHEET OF					REV.
TOLERANCE: ±					

NOTE: DIMENSIONAL DRAWING FOR QUOTATION PURPOSES ONLY. DO NOT USE FOR CONSTRUCTION.



BTR 214-6-8



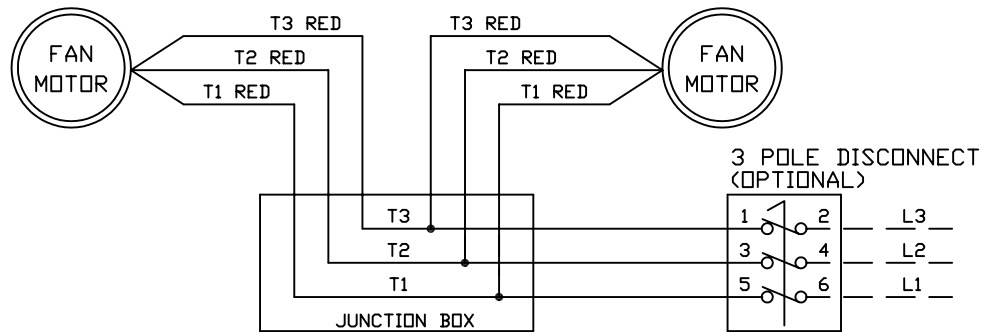
4R-A=33.5
6R-A=36.5
8R-A=39.5

PITCH PAN APPROX.
3/16 / FT. WHEN INSTALLING

● = MINIMUM REQUIRED FOR COMPLETE FAN AND MOTOR ASSEMBLY REMOVAL

DESIGN SPECIFICATIONS	UNITS
UNIT COOLING CAPACITY	BTUH
ROOM TEMPERATURE	°F
SUCTION TEMPERATURE	°F
REFRIGERANT	-
AIR FLOW RATE	CFM
EXTERNAL STATIC PRESSURE	INWG
NOMINAL FIN SPACING	FINS/IN
TOTAL SURFACE AREA	FT ²
APPROXIMATE WEIGHT	LBS.

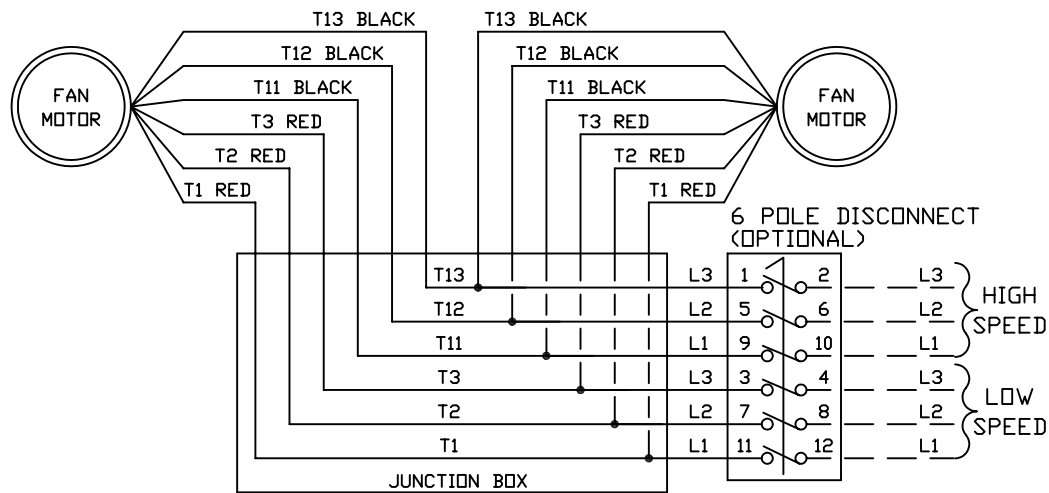
JOB NO.:		NO.		CHANGE DESCRIPTION	DATE	CK'D
CUSTOMER P.O.:		REVISIONS				
CUSTOMER NAME:						
JOB NAME:						
TAG UNIT:						
MODEL:						
ITEM NO.:						
NO. REQ'D:	DATE:	DRAWN:			REV.	
SHEET	OF					REV.
TOLERANCE:	±					



HP	FLA-EACH	FLA-TOTAL
	230/3	230/3
1/2	2.00	4.00

HP	FLA-EACH	FLA-TOTAL
	460/3	460/3
1/2	1.00	2.00

2 FAN WIRING DIAGRAM W/ OPTIONAL DISCONNECT



WIRING BY OTHERS -----
 WIRING BY KRACK _____

2 FAN 2 SPEED WIRING DIAGRAM W/ OPTIONAL DISCONNECT

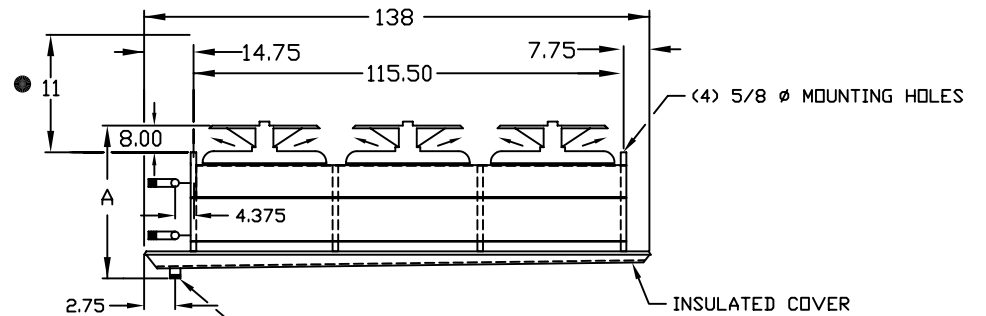
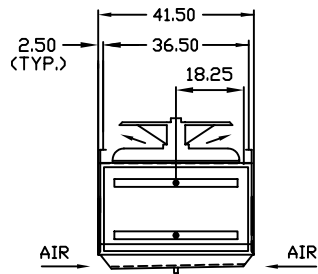
JOB NO.:		NO.	CHANGE DESCRIPTION	DATE	CK'D
CUSTOMER P.O.:		REVISIONS			
CUSTOMER NAME:					
JOB NAME:					
TAG UNIT:					
MODEL:					
ITEM NO.:					
NO. REQ'D:	DATE:	DRAWN:			
SHEET OF					REV.
TOLERANCE: ± 0.500					

NOTE: DIMENSIONAL DRAWING FOR QUOTATION PURPOSES ONLY. DO NOT USE FOR CONSTRUCTION.

END VIEW

BTR 314-6-8

FRONT VIEW



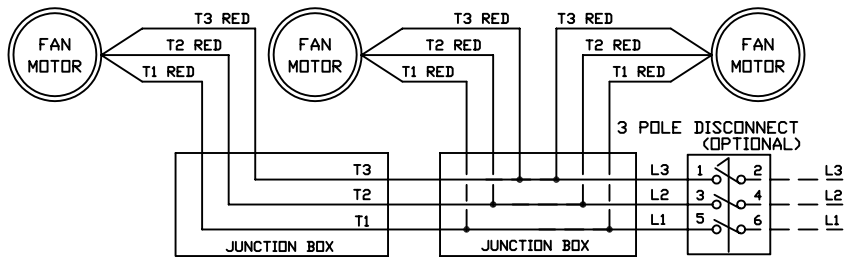
4R-A=33.5
6R-A=36.5
8R-A=39.5

1 1/2 FPT DRAIN CONN.
PITCH PAN APPROX.
3/16 / FT. WHEN INSTALLING

DESIGN SPECIFICATIONS	UNITS
UNIT COOLING CAPACITY	BTUH
ROOM TEMPERATURE	*F
SUCTION TEMPERATURE	*F
REFRIGERANT	-
AIR FLOW RATE	CFM
EXTERNAL STATIC PRESSURE	INWG
NOMINAL FIN SPACING	FINS/IN
TOTAL SURFACE AREA	FT ²
APPROXIMATE WEIGHT	LBS.

● = MINIMUM REQUIRED FOR COMPLETE FAN AND MOTOR ASSEMBLY REMOVAL

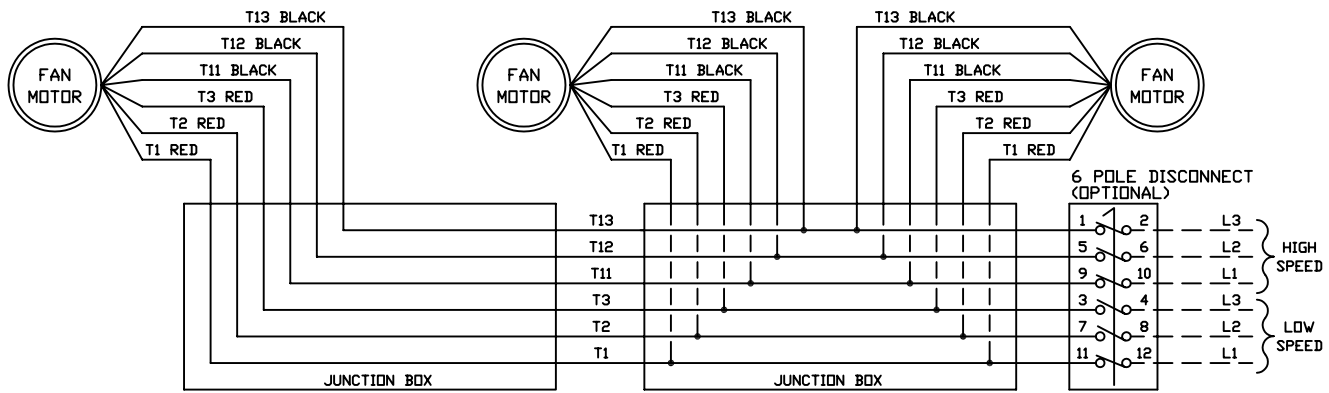
JOB NO.:		NO.	CHANGE DESCRIPTION	DATE	CK'D
CUSTOMER P.O.:		REVISIONS			
CUSTOMER NAME:					
JOB NAME:					
TAG UNIT:					
MODEL:					
ITEM NO.:					
NO. REQ'D:	DATE:	DRAWN:			
SHEET	OF				REV.
TOLERANCE:	±				



3 FAN WIRING DIAGRAM W/ OPTIONAL DISCONNECT

HP	FLA-EACH	FLA-TOTAL
	230/3	230/3
1/2	2.00	6.00

HP	FLA-EACH	FLA-TOTAL
	460/3	460/3
1/2	1.00	3.00



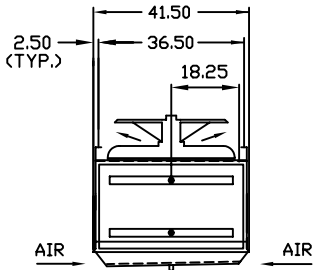
3 FAN 2 SPEED WIRING DIAGRAM W/ OPTIONAL DISCONNECT

WIRING BY OTHERS - - - - -
 WIRING BY KRACK _____

JOB NO.:	NO.	CHANGE DESCRIPTION	DATE	CK'D
CUSTOMER P.O.:	REVISIONS			
CUSTOMER NAME:				
JOB NAME:				
TAG UNIT:				
MODEL:				
ITEM NO.:				
NO. REQ'D:	DATE:	DRAWN:		
SHEET OF				REV.
TOLERANCE: ±				

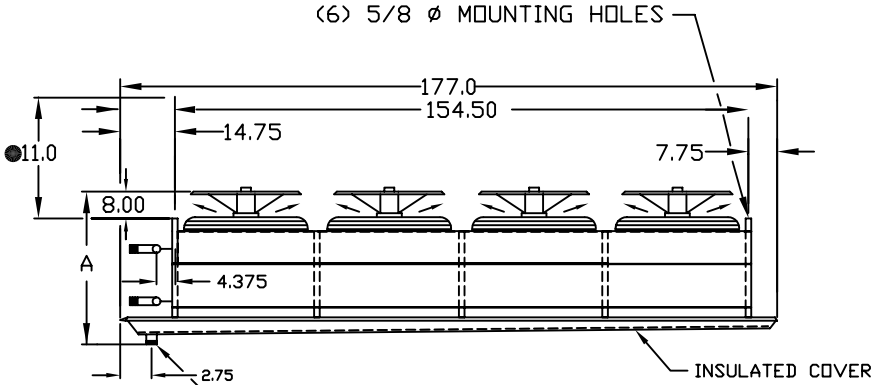
NOTE: DIMENSIONAL DRAWING FOR QUOTATION PURPOSES ONLY. DO NOT USE FOR CONSTRUCTION.

END VIEW



BTR 414-6-8

FRONT VIEW



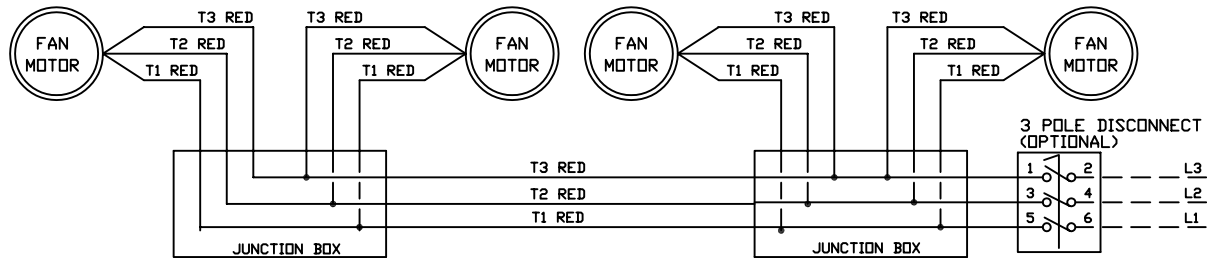
4R-A=33.5
6R-A=36.5
8R-A=39.5

1 1/2 FPT DRAIN CONN.
PITCH PAN APPROX.
3/16 / FT. WHEN INSTALLING

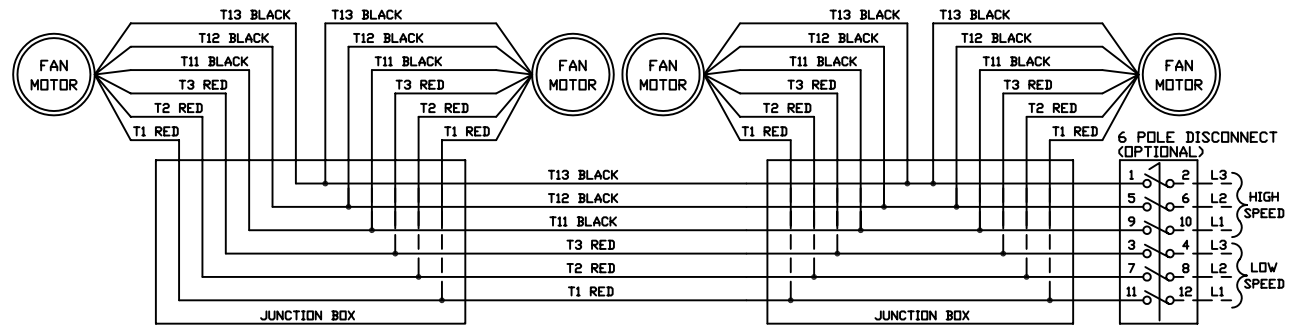
DESIGN SPECIFICATIONS	UNITS
UNIT COOLING CAPACITY	BTUH
ROOM TEMPERATURE	°F
SUCTION TEMPERATURE	°F
REFRIGERANT	-
AIR FLOW RATE	CFM
EXTERNAL STATIC PRESSURE	INWG
NOMINAL FIN SPACING	FINS/IN
TOTAL SURFACE AREA	FT²
APPROXIMATE WEIGHT	LBS.

● = MINIMUM REQUIRED FOR COMPLETE FAN AND MOTOR ASSEMBLY REMOVAL

JOB NO.:		NO.		CHANGE DESCRIPTION	DATE	CK'D
CUSTOMER P.O.:		REVISIONS				
CUSTOMER NAME:						
JOB NAME:						
TAG UNIT:						
MODEL:						
ITEM NO.:						
NO. REQ'D:	DATE:	DRAWN:				
SHEET OF						REV.
TOLERANCE: ±						



4 FAN WIRING DIAGRAM W/ OPTIONAL DISCONNECT



4 FAN 2 SPEED WIRING DIAGRAM W/ OPTIONAL DISCONNECT

WIRING BY OTHERS _____
 WIRING BY KRACK - - - - -

HP	FLA-EACH	FLA-TOTAL
230/3	2.00	8.00

HP	FLA-EACH	FLA-TOTAL
460/3	1.00	4.00

JOB NO.:				
CUSTOMER P.O.:				
CUSTOMER NAME:				
JOB NAME:				
TAG UNIT:				
MODEL:				
ITEM NO.:				
NO. REQ'D:		DATE:		DRAWN:
SHEET	OF			REV.
TOLERANCE:	±			