



TRANE®

4TTA3AD-SF-1A

Service Facts

Split System Cooling

4TTA3030AD000A, 4TTA3036AD000A, 4TTA3042AD000A,
4TTA3048AD000A, 4TTA3060AD000A

IMPORTANT — This document contains a wiring diagram, a parts list, and service information. This is customer property and is to remain with this unit. Please return to service information pack upon completion of work.

⚠ WARNING: HAZARDOUS VOLTAGE - DISCONNECT POWER and DISCHARGE CAPACITORS BEFORE SERVICING

PRODUCT SPECIFICATIONS

OUTDOOR UNIT	4TTA3030AD000A	4TTA3036AD000A	4TTA3042AD000A	4TTA3048AD000A	4TTA3060AD000A
POWER CONNS. — V/PH/Hz ①	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
MIN. BRCH. CIR. AMPACITY	9	11	12	12	14
BR CIR PROT RTG — MAX. (AMPS)	15	19	21	21	25
COMPRESSOR	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL
NO. USED - NO. SPEEDS	1 - 1	1 - 1	1 - 1	1 - 1	1 - 1
VOLTS/PH/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
R.L. AMPS ③ - L.R. AMPS	6.1 - 38.0	6.7 - 43.0	6.9 - 52.0	7.6 - 51.5	8.9 - 67.1
FACTORY INSTALLED					
START COMPONENTS ⑤	NO	NO	NO	NO	NO
INSUL/SOUND BLANKET	NO	NO	NO	NO	NO
COMPRESSOR HEAT	YES	YES	YES	YES	YES
OUTDOOR FAN	PROPELLER	PROPELLER	PROPELLER	PROPELLER	PROPELLER
DIA. (IN.) - NO. USED	27.6 - 1	27.6 - 1	27.6 - 1	27.6 - 1	27.6 - 1
TYPE DRIVE - NO. SPEEDS	DIRECT - 1	DIRECT - 1	DIRECT - 1	DIRECT - 1	DIRECT - 1
CFM @ 0.0 IN. W.G. ②	3525	3525	3525	3980	3980
NO. MOTORS - HP	1 - 1/6	1 - 1/6	1 - 1/6	1 - 1/6	1 - 1/6
MOTOR SPEED R.P.M.	700	700	700	700	700
VOLTS/PH/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
F.L. AMPS	0.7	0.7	0.7	0.7	0.7
OUTDOOR COIL — TYPE	SPINE FIN™	SPINE FIN™	SPINE FIN™	SPINE FIN™	SPINE FIN™
ROWS - F.P.I.	1 - 24	1 - 24	1 - 24	1 - 24	1 - 24
FACE AREA (SQ. FT.)	24.93	24.93	27.86	30.79	30.79
TUBE SIZE (IN.)	3/8	3/8	3/8	3/8	3/8
REFRIGERANT	R-410A	R-410A	R-410A	R-410A	R-410A
REFRIGERANT CONTROL	TXV/Capillary	TXV/Capillary	TXV/Capillary	TXV/Capillary	TXV/Capillary
LBS — R-410A (O.D. UNIT) ③	7 LBS., 11 OZ.	8 LBS., 8 OZ.	8 LBS., 6 OZ.	9 LBS., 13 OZ.	9 LBS., 14 OZ.
FACTORY SUPPLIED	YES	YES	YES	YES	YES
LINE SIZE - IN. O.D. GAS ④	3/4	7/8	7/8	7/8	7/8
LINE SIZE - IN. O.D. LIQ. ④	3/8	3/8	3/8	3/8	3/8
CHARGING SPECIFICATION					
TXV SYS CHGD TO SUBCOOL	10°F	10°F	10°F	10°F	10°F
CAPILLARY SYS CHGD TO SUPERHEAT	10°F	10°F	10°F	10°F	10°F
DIMENSIONS					
CRATED (IN.)	H X W X D 42.4 x 35.1 x 38.7	H X W X D 42.4 x 35.1 x 38.7	H X W X D 46.4 x 35.1 x 38.7	H X W X D 51 x 35.1 x 38.7	H X W X D 51 x 35.1 x 38.7
WEIGHT					
SHIPPING (LBS.)	217	254	277	292	297
NET (LBS.)	182	219	240	255	260

TUBING INFORMATION

LINE TYPE		REFRIGERANT TO ADD AT SPECIFIED ADDITIONAL LENGTH				
Suction	Liquid	20 ft	30 ft	40 ft	50 ft	60 ft
3/4"	3/8"	3 oz	9 oz	15 oz	21 oz	27 oz
7/8"	3/8"	3 oz	9 oz	16 oz	22 oz	28 oz

Tubing lengths in excess of sixty (60) feet see application software.

- ① Calculated in accordance with Natl. Elec. Codes. Only use HACR circuit breakers or fuses.
- ② Standard Air — Dry Coil — Outdoor
- ③ This value approximate. For more precise value see unit nameplate.
- ④ Max. linear length 80 ft.; Max. lift - Suction 60 ft.; Max lift - Liquid 60 ft. For greater length consult refrigerant piping software Pub. No. 32-3312-0* (* denotes latest revision).
- ⑤ This value shown for compressor RLA on the unit nameplate and on this specification sheet is used to compute minimum branch circuit ampacity and max. fuse size. The value shown is the branch circuit selection current.
- ⑥ No means no start components. Yes means quick start kit components. PTC means positive temperature coefficient starter.

⚠ CAUTION

HOT SURFACE!
DO NOT TOUCH TOP OF COMPRESSOR.
May cause minor to severe burning.

⚠ CAUTION

CONTAINS REFRIGERANT!
SYSTEM CONTAINS OIL AND REFRIGERANT UNDER HIGH PRESSURE. RECOVER REFRIGERANT TO RELIEVE PRESSURE BEFORE OPENING SYSTEM.
Failure to follow proper procedures can result in personal illness or injury or severe equipment damage.

⚠ WARNING

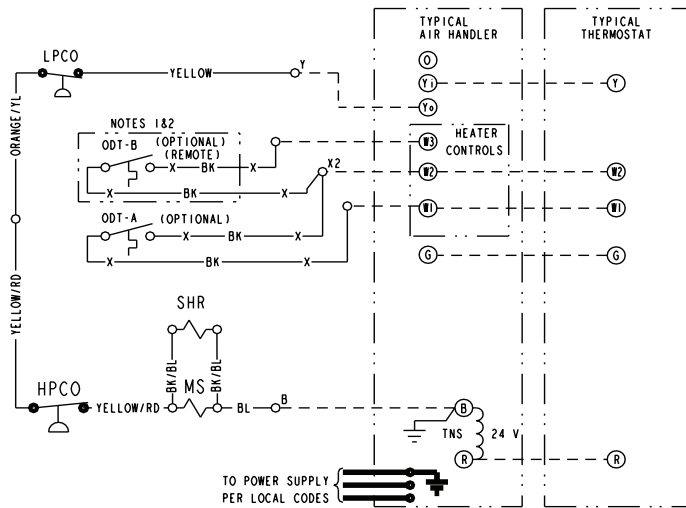
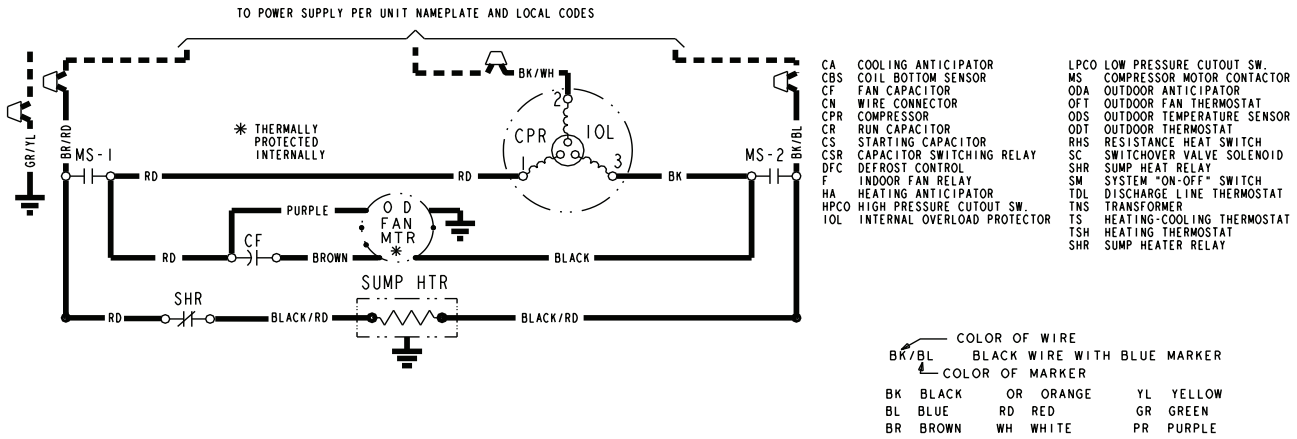
THIS INFORMATION IS INTENDED FOR USE BY INDIVIDUALS POSSESSING ADEQUATE BACKGROUNDS OF ELECTRICAL AND MECHANICAL EXPERIENCE. ANY ATTEMPT TO REPAIR A CENTRAL AIR CONDITIONING PRODUCT MAY RESULT IN PERSONAL INJURY AND OR PROPERTY DAMAGE. THE MANUFACTURER OR SELLER CANNOT BE RESPONSIBLE FOR THE INTERPRETATION OF THIS INFORMATION, NOR CAN IT ASSUME ANY LIABILITY IN CONNECTION WITH ITS USE.

⚠ CAUTION

RECONNECT ALL GROUNDING DEVICES.
ALL PARTS OF THIS PRODUCT CAPABLE OF CONDUCTING ELECTRICAL CURRENT ARE GROUNDED. IF GROUNDING WIRES, SCREWS, STRAPS, CLIPS, NUTS OR WASHERS USED TO COMPLETE A PATH TO GROUND ARE REMOVED FOR SERVICE, THEY MUST BE RETURNED TO THEIR ORIGINAL POSITION AND PROPERLY FASTENED.

NOTICE: The manufacturer has a policy of continuous product and product data improvement and it reserves the right to change design and specifications without notice.

SCHEMATIC DIAGRAM



WARNING
HAZARDOUS VOLTAGE!
DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.
FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH!

CAUTION
USE COPPER CONDUCTORS ONLY!
UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.
FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT!

NOTES:

- IF ODT-B IS NOT USED, ADD JUMPER BETWEEN W2 & W3 AT AIR HANDLER.
IF USED, ODT-B MUST BE MOUNTED REMOTE OF CONTROL BOX IN AN APPROVED WEATHER PROOF ENCLOSURE.
- IF ODT-A IS NOT USED, ADD JUMPER BETWEEN W1 & W2 AT AIR HANDLER.
- LOW VOLTAGE (24 V.) FIELD WIRING MUST BE 18 AWG MIN.

NOTE
THREE PHASE MOTOR (S) FACTORY SUPPLIED IN THIS EQUIPMENT PROTECTED UNDER PRIMARY SINGLE-PHASE CONDITIONS.

SUBCOOLING CHARGING IN COOLING ABOVE 55°F OD AMBIENT

The manufacturer has always recommended installing approved matched indoor and outdoor systems.

All split systems are AHRI rated with only TXV indoor systems.

The benefits of installing approved indoor and outdoor split systems are maximum efficiency, optimum performance and the best overall system reliability.

The following charging methods are therefore prescribed for systems with indoor TXVs.

- Subcooling (in the cooling mode) is the only recommended method of charging above 55°F ambient temperatures.
- For best results – the indoor temperature should be kept between 70°F to 80°F. Add system heat if needed.
- At startup, or whenever charge is removed or added, the system must be operated for a minimum 20 minutes to stabilize before accurate measurements can be made.
- Measure Liquid Line Temperature and Refrigerant Pressure at service valves.
- Determine total refrigerant line length, and height (lift) if indoor section is above the condenser.
- Determine the Design Subcool Charging Temperature from the unit nameplate.
- Locate this value in the appropriate column of the Subcooling Charging Table. Locate your liquid line temperature in the left column of the table, and the intersecting liquid line pressure under your nameplate subcool value column. Add refrigerant to raise the pressure to match the table, or remove refrigerant

to lower the pressure. Again, wait 20 minutes for the system conditions to stabilize before adjusting charge again.

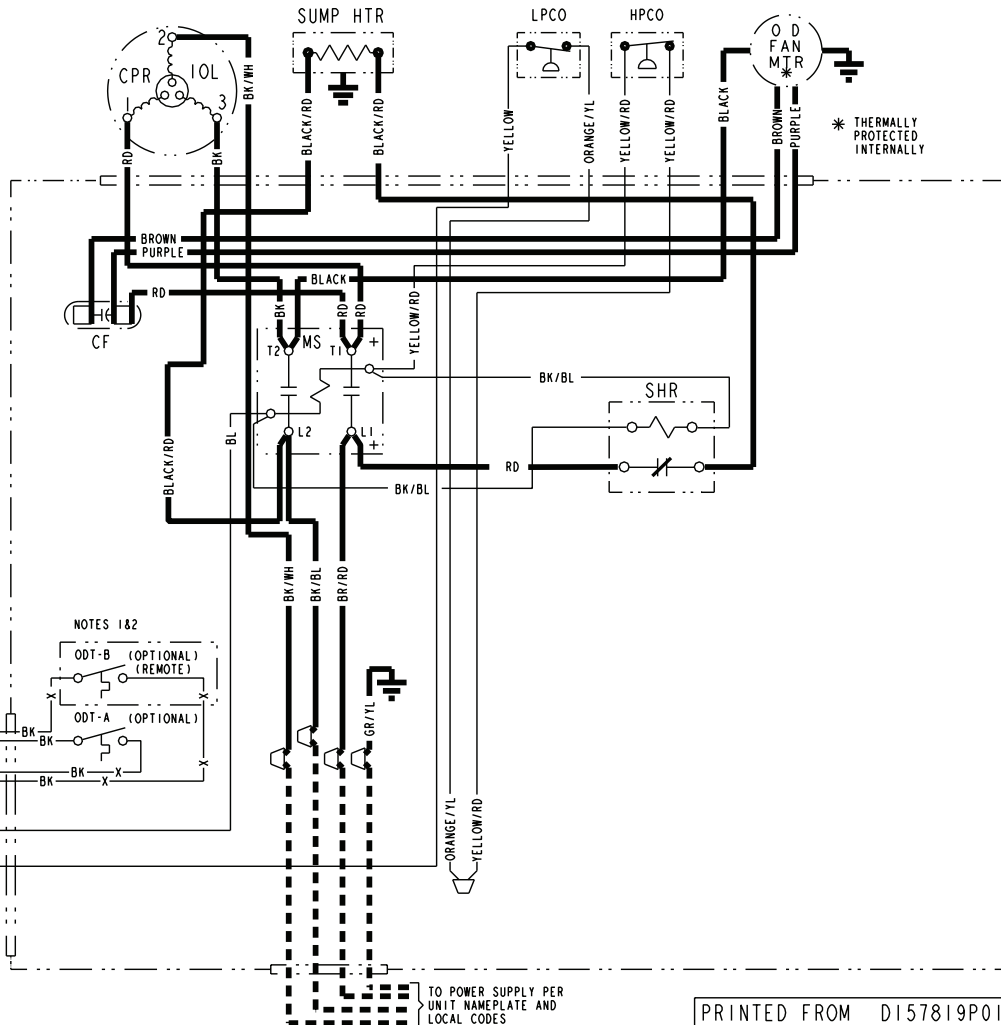
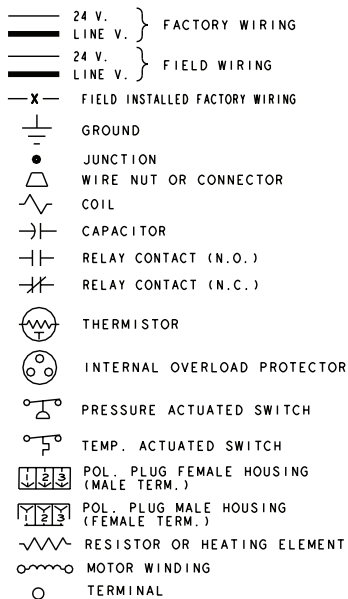
- When system is correctly charged, you can refer to System Pressure Curves to verify typical performance.

R-410A REFRIGERANT CHARGING CHART							
LIQUID TEMP (°F)	DESIGN SUBCOOLING (°F)						
	8	9	10	11	12	13	14
	LIQUID GAGE PRESSURE (PSI)						
55	179	182	185	188	191	195	198
60	195	198	201	204	208	211	215
65	211	215	218	222	225	229	232
70	229	232	236	240	243	247	251
75	247	251	255	259	263	267	271
80	267	271	275	279	283	287	291
85	287	291	296	300	304	309	313
90	309	313	318	322	327	331	336
95	331	336	341	346	351	355	360
100	355	360	365	370	376	381	386
105	381	386	391	396	402	407	413
110	407	413	418	424	429	435	441
115	435	441	446	452	458	464	470
120	464	470	476	482	488	495	501
125	495	501	507	514	520	527	533
Refer to Service Facts or Installer's Guide for charging method.							

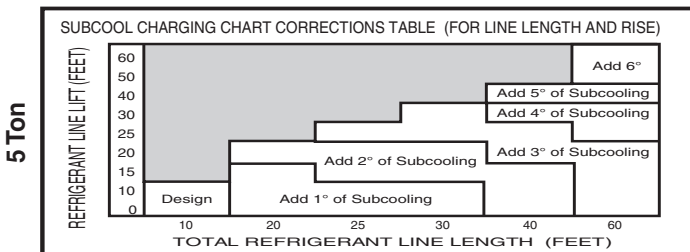
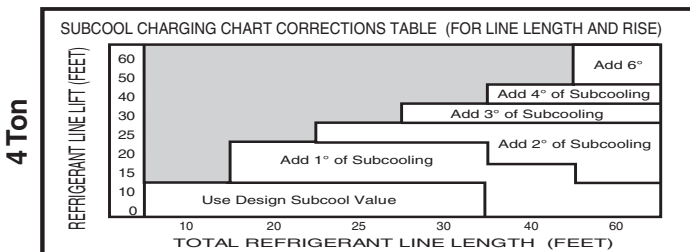
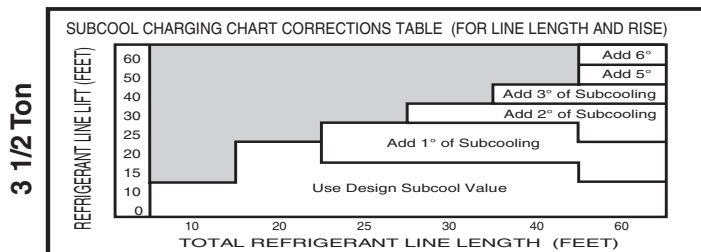
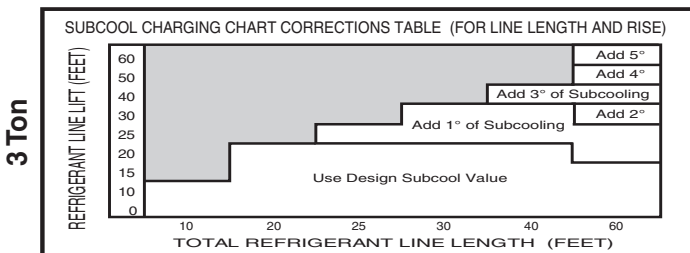
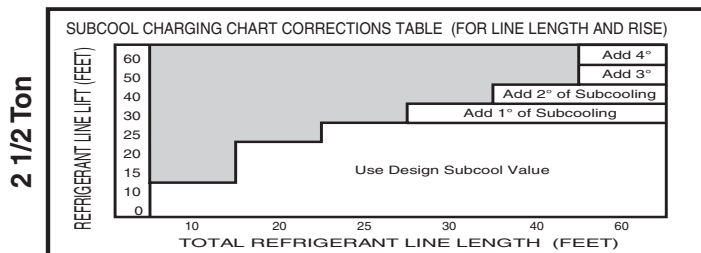
From Dwg. D154557P01 Rev. 2

WIRING DIAGRAM

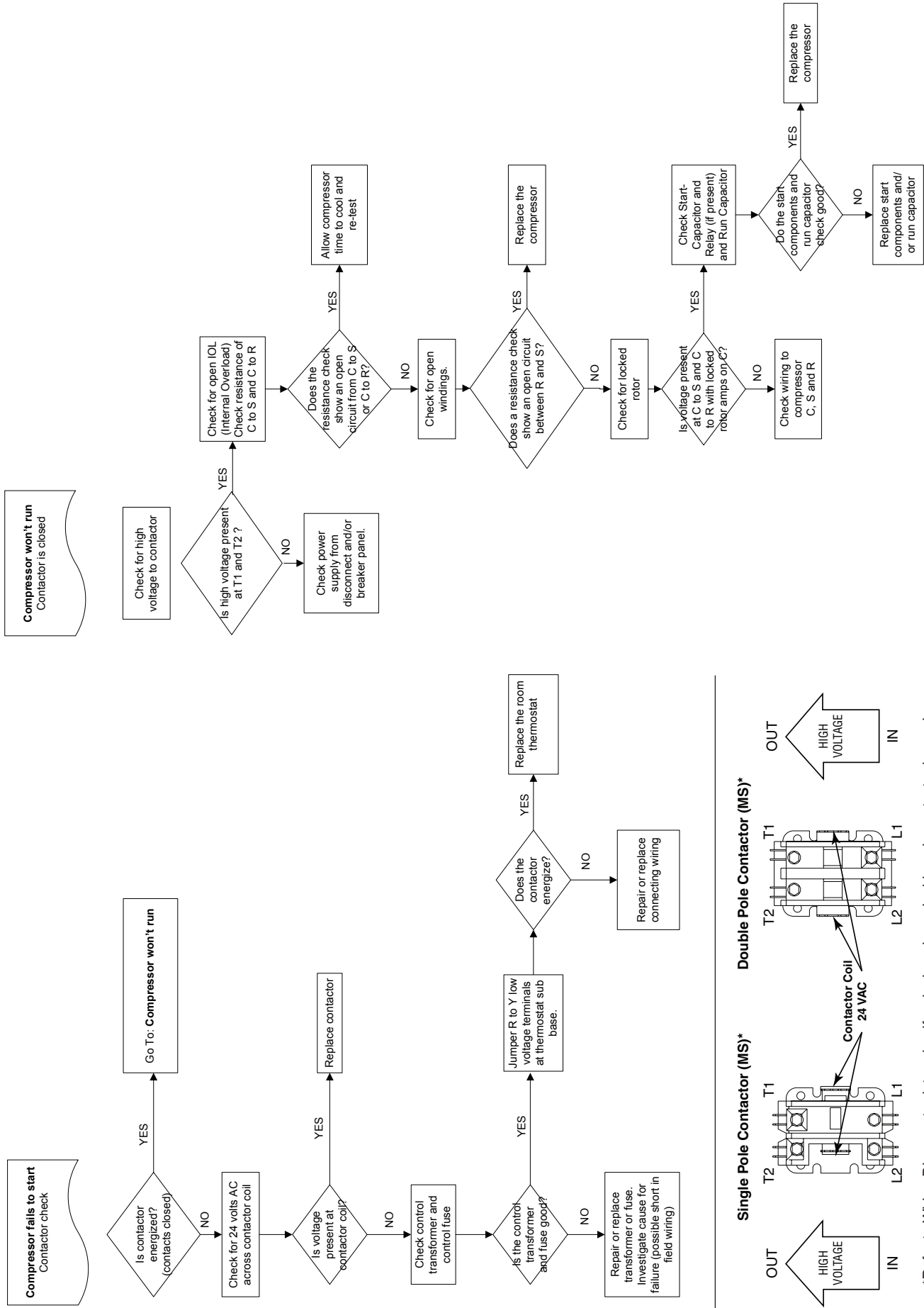
LEGEND-EQUIPMENT DIAGRAM



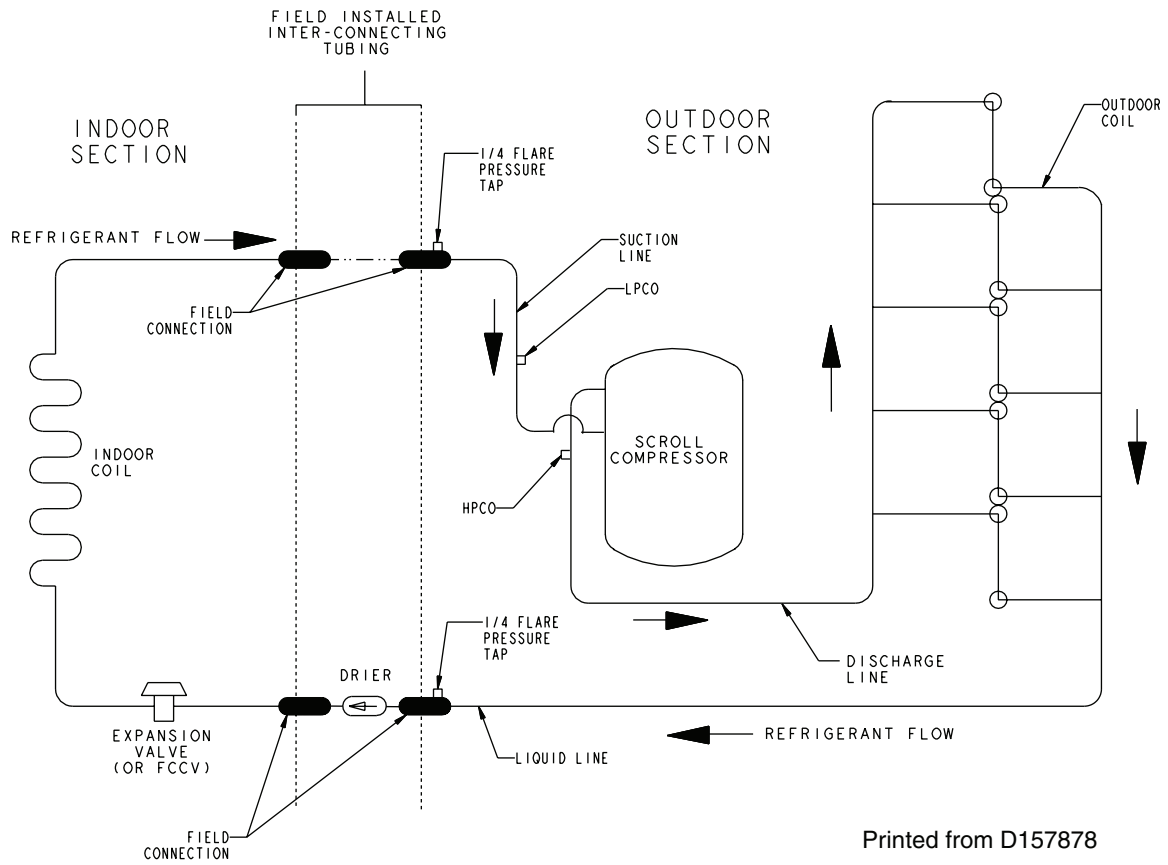
PRINTED FROM DI57819P01



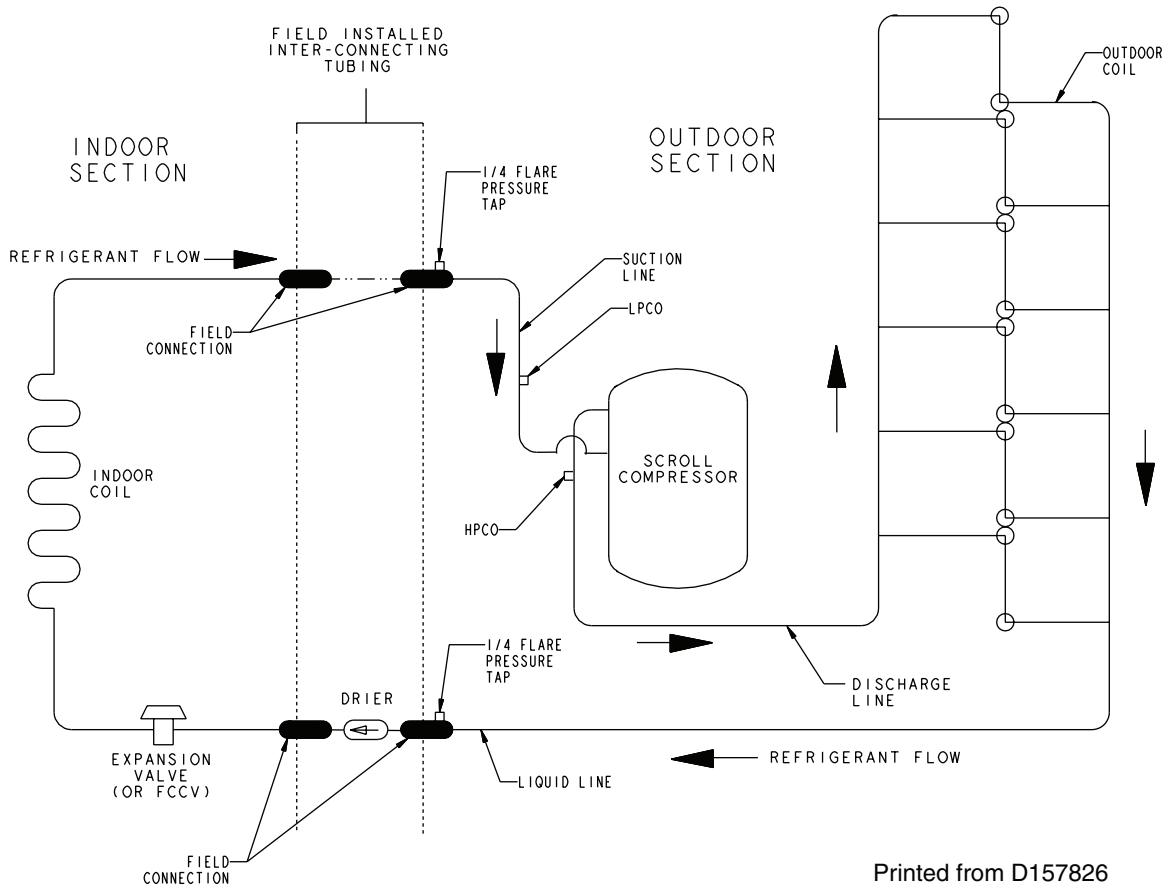
TROUBLESHOOTING



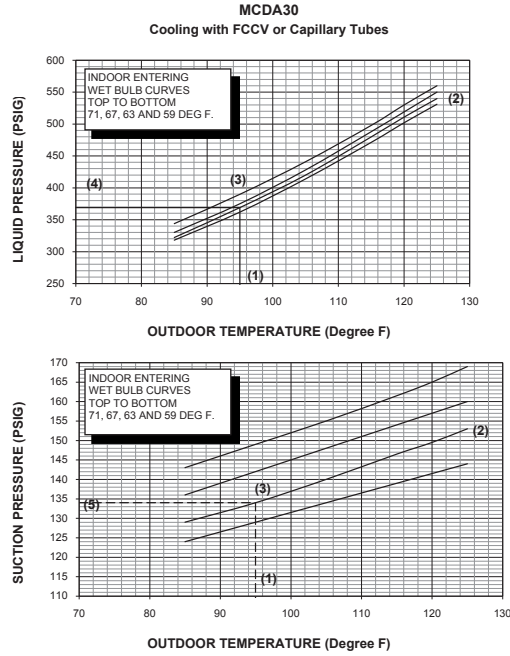
REFRIGERANT CIRCUIT 4TTA3030AD, 036AD, 42AD



REFRIGERANT CIRCUIT 4TTA3048AD/060AD



PRESSURE CURVES FOR 4TTA3030AD



COOLING PERFORMANCE CAN BE CHECKED WHEN THE OUTDOOR TEMP IS ABOVE 85 DEG F.
TO CHECK COOLING PERFORMANCE, SELECT THE PROPER INDOOR CFM, ALLOW PRESSURES TO STABILIZE. MEASURE INDOOR WET BULB TEMPERATURE, OUTDOOR TEMPERATURE, LIQUID AND SUCTION PRESSURES. ON THE PLOTS LOCATE OUTDOOR TEMPERATURE (1); LOCATE INDOOR WET BULB (2); FIND INTERSECTION OF OD TEMP. & ID W.B. (3); READ LIQUID (4) OR SUCTION (5) PRESSURE IN LEFT COLUMN.

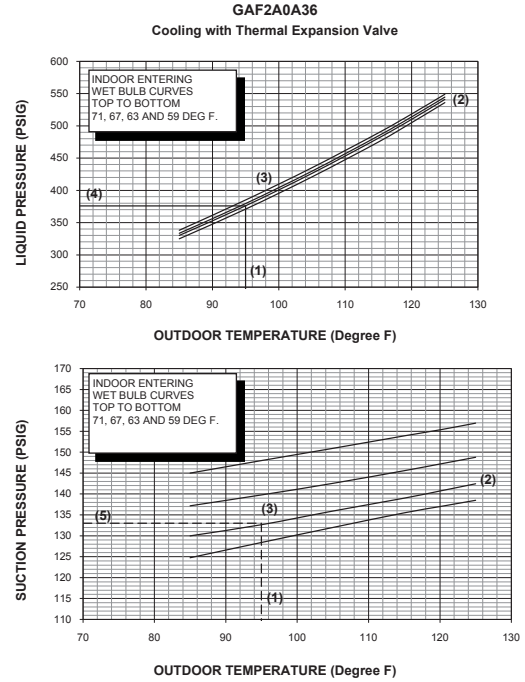
EXAMPLE: (1) OUTDOOR TEMP. 95 F.
(2) INDOOR WET BULB 63 F.
(3) AT INTERSECTION
(4) LIQUID PRESSURE @ 980 CFM IS 389 PSIG
(5) SUCTION PRESSURE @ 980 CFM IS 134 PSIG

ACTUAL:
LIQUID PRESSURE SHOULD BE +/- 10 PSI OF CHART
SUCTION PRESSURE SHOULD BE +/- 3 PSIG OF CHART

INTERCONNECTING LINES
Suction - 3/4"
Liquid - 3/8"

DWG.NO. 4TTA3030AD

PRESSURE CURVES FOR 4TTA3030AD



COOLING PERFORMANCE CAN BE CHECKED WHEN THE OUTDOOR TEMP IS ABOVE 85 DEG F.
TO CHECK COOLING PERFORMANCE, SELECT THE PROPER INDOOR CFM, ALLOW PRESSURES TO STABILIZE. MEASURE INDOOR WET BULB TEMPERATURE, OUTDOOR TEMPERATURE, LIQUID AND SUCTION PRESSURES. ON THE PLOTS LOCATE OUTDOOR TEMPERATURE (1); LOCATE INDOOR WET BULB (2); FIND INTERSECTION OF OD TEMP. & ID W.B. (3); READ LIQUID (4) OR SUCTION (5) PRESSURE IN LEFT COLUMN.

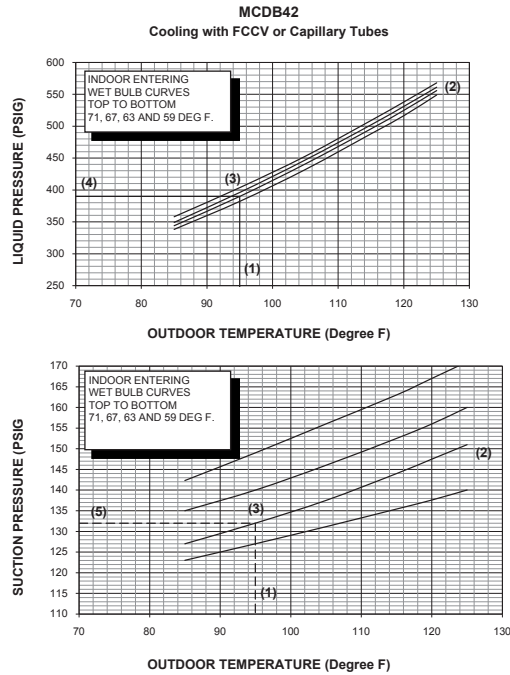
EXAMPLE: (1) OUTDOOR TEMP. 95 F.
(2) INDOOR WET BULB 63 F.
(3) AT INTERSECTION
(4) LIQUID PRESSURE @ 975 CFM IS 376 PSIG
(5) SUCTION PRESSURE @ 975 CFM IS 133 PSIG

ACTUAL:
LIQUID PRESSURE SHOULD BE +/- 10 PSI OF CHART
SUCTION PRESSURE SHOULD BE +/- 3 PSIG OF CHART

INTERCONNECTING LINES
Suction - 3/4"
Liquid - 3/8"

DWG.NO. 4TTA3030AD

PRESSURE CURVES FOR 4TTA3042AD



COOLING PERFORMANCE CAN BE CHECKED WHEN THE OUTDOOR TEMP IS ABOVE 85 DEG F.
TO CHECK COOLING PERFORMANCE, SELECT THE PROPER INDOOR CFM, ALLOW PRESSURES TO STABILIZE. MEASURE INDOOR WET BULB TEMPERATURE, OUTDOOR TEMPERATURE, LIQUID AND SUCTION PRESSURES. ON THE PLOTS LOCATE OUTDOOR TEMPERATURE (1); LOCATE INDOOR WET BULB (2); FIND INTERSECTION OF OD TEMP. & ID W.B. (3); READ LIQUID (4) OR SUCTION (5) PRESSURE IN LEFT COLUMN.

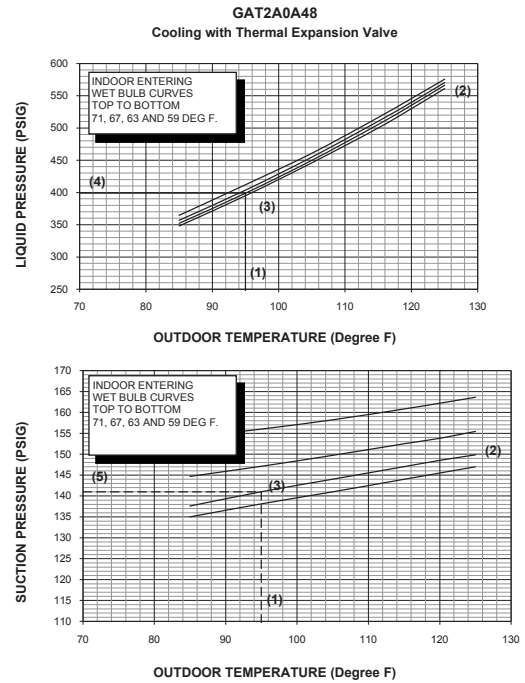
EXAMPLE: (1) OUTDOOR TEMP. 95 F.
(2) INDOOR WET BULB 63 F.
(3) AT INTERSECTION
(4) LIQUID PRESSURE @ 1259 CFM IS 390 PSIG
(5) SUCTION PRESSURE @ 1259 CFM IS 132 PSIG

ACTUAL:
LIQUID PRESSURE SHOULD BE +/- 10 PSI OF CHART
SUCTION PRESSURE SHOULD BE +/- 3 PSIG OF CHART

INTERCONNECTING LINES
Suction - 7/8"
Liquid - 3/8"

DWG.NO. 4TTA3042AD

PRESSURE CURVES FOR 4TTA3042AD



COOLING PERFORMANCE CAN BE CHECKED WHEN THE OUTDOOR TEMP IS ABOVE 85 DEG F.
TO CHECK COOLING PERFORMANCE, SELECT THE PROPER INDOOR CFM, ALLOW PRESSURES TO STABILIZE. MEASURE INDOOR WET BULB TEMPERATURE, OUTDOOR TEMPERATURE, LIQUID AND SUCTION PRESSURES. ON THE PLOTS LOCATE OUTDOOR TEMPERATURE (1); LOCATE INDOOR WET BULB (2); FIND INTERSECTION OF OD TEMP. & ID W.B. (3); READ LIQUID (4) OR SUCTION (5) PRESSURE IN LEFT COLUMN.

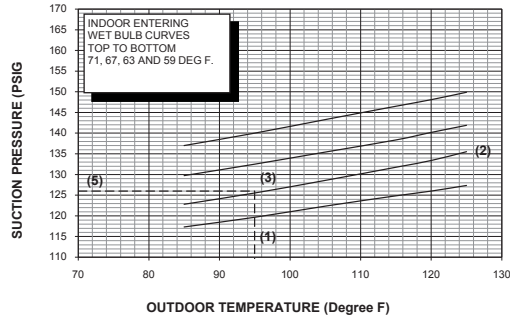
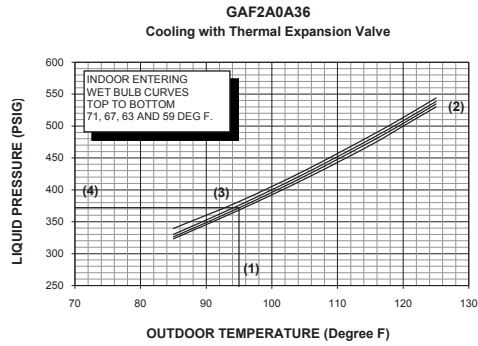
EXAMPLE: (1) OUTDOOR TEMP. 95 F.
(2) INDOOR WET BULB 63 F.
(3) AT INTERSECTION
(4) LIQUID PRESSURE @ 1581 CFM IS 399 PSIG
(5) SUCTION PRESSURE @ 1581 CFM IS 141 PSIG

ACTUAL:
LIQUID PRESSURE SHOULD BE +/- 10 PSI OF CHART
SUCTION PRESSURE SHOULD BE +/- 3 PSIG OF CHART

INTERCONNECTING LINES
Suction - 7/8"
Liquid - 3/8"

DWG.NO. 4TTA3042AD

PRESSURE CURVES FOR 4TTA3036AD



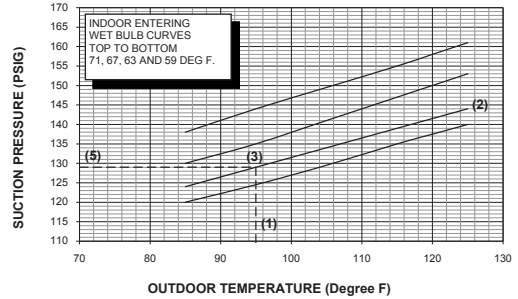
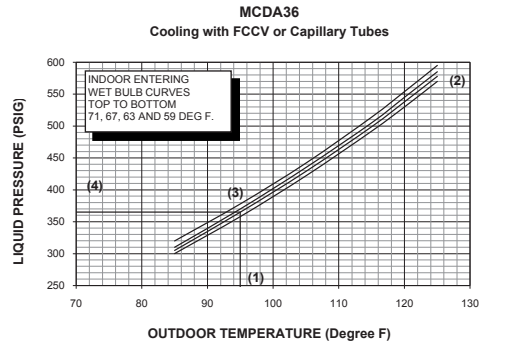
COOLING PERFORMANCE CAN BE CHECKED WHEN THE OUTDOOR TEMP IS ABOVE 85 DEG F.
TO CHECK COOLING PERFORMANCE, SELECT THE PROPER INDOOR CFM, ALLOW PRESSURES TO STABILIZE. MEASURE INDOOR WET BULB TEMPERATURE, OUTDOOR TEMPERATURE, LIQUID AND SUCTION PRESSURES. ON THE PLOTS LOCATE OUTDOOR TEMPERATURE (1); LOCATE INDOOR WET BULB (2); FIND INTERSECTION OF OD TEMP. & ID W.B. (3); READ LIQUID (4) OR SUCTION (5) PRESSURE IN LEFT COLUMN.
EXAMPLE: (1) OUTDOOR TEMP. 95 F.
(2) INDOOR WET BULB 63 F.
(3) AT INTERSECTION
(4) LIQUID PRESSURE @ 975 CFM IS 372 PSIG
(5) SUCTION PRESSURE @ 975 CFM IS 126 PSIG

ACTUAL:
LIQUID PRESSURE SHOULD BE +/- 10 PSI OF CHART
SUCTION PRESSURE SHOULD BE +/- 3 PSIG OF CHART

INTERCONNECTING LINES
Suction - 7/8"
Liquid - 3/8"

DWG.NO. 4TTA3036AD

PRESSURE CURVES FOR 4TTA3036AD



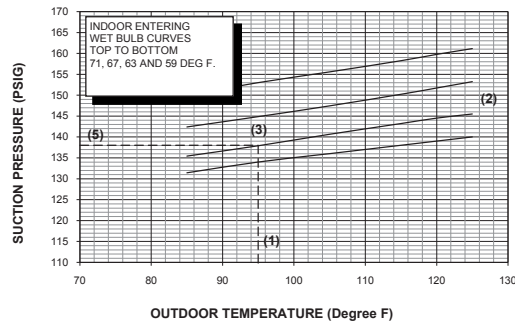
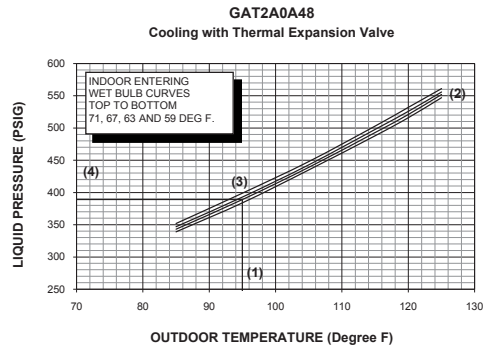
COOLING PERFORMANCE CAN BE CHECKED WHEN THE OUTDOOR TEMP IS ABOVE 85 DEG F.
TO CHECK COOLING PERFORMANCE, SELECT THE PROPER INDOOR CFM, ALLOW PRESSURES TO STABILIZE. MEASURE INDOOR WET BULB TEMPERATURE, OUTDOOR TEMPERATURE, LIQUID AND SUCTION PRESSURES. ON THE PLOTS LOCATE OUTDOOR TEMPERATURE (1); LOCATE INDOOR WET BULB (2); FIND INTERSECTION OF OD TEMP. & ID W.B. (3); READ LIQUID (4) OR SUCTION (5) PRESSURE IN LEFT COLUMN.
EXAMPLE: (1) OUTDOOR TEMP. 95 F.
(2) INDOOR WET BULB 63 F.
(3) AT INTERSECTION
(4) LIQUID PRESSURE @ 1082 CFM IS 365 PSIG
(5) SUCTION PRESSURE @ 1082 CFM IS 129 PSIG

ACTUAL:
LIQUID PRESSURE SHOULD BE +/- 10 PSI OF CHART
SUCTION PRESSURE SHOULD BE +/- 3 PSIG OF CHART

INTERCONNECTING LINES
Suction - 7/8"
Liquid - 3/8"

DWG.NO. 4TTA3036AD

PRESSURE CURVES FOR 4TTA3048AD



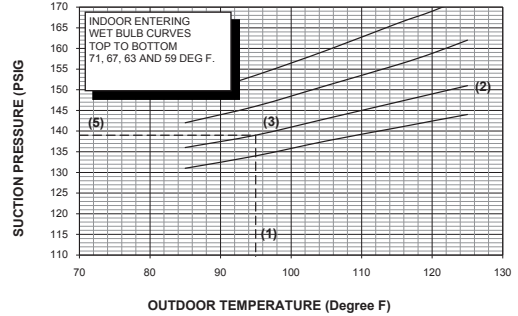
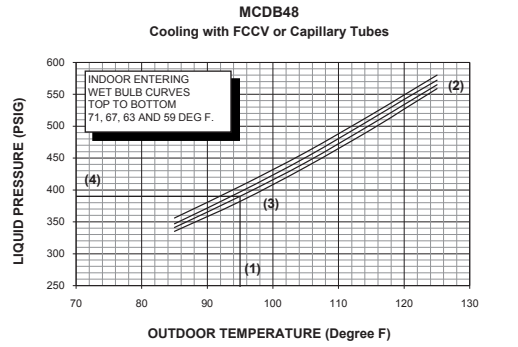
COOLING PERFORMANCE CAN BE CHECKED WHEN THE OUTDOOR TEMP IS ABOVE 85 DEG F.
TO CHECK COOLING PERFORMANCE, SELECT THE PROPER INDOOR CFM, ALLOW PRESSURES TO STABILIZE. MEASURE INDOOR WET BULB TEMPERATURE, OUTDOOR TEMPERATURE, LIQUID AND SUCTION PRESSURES. ON THE PLOTS LOCATE OUTDOOR TEMPERATURE (1); LOCATE INDOOR WET BULB (2); FIND INTERSECTION OF OD TEMP. & ID W.B. (3); READ LIQUID (4) OR SUCTION (5) PRESSURE IN LEFT COLUMN.
EXAMPLE: (1) OUTDOOR TEMP. 95 F.
(2) INDOOR WET BULB 63 F.
(3) AT INTERSECTION
(4) LIQUID PRESSURE @ 1581 CFM IS 389 PSIG
(5) SUCTION PRESSURE @ 1581 CFM IS 138 PSIG

ACTUAL:
LIQUID PRESSURE SHOULD BE +/- 10 PSI OF CHART
SUCTION PRESSURE SHOULD BE +/- 3 PSIG OF CHART

INTERCONNECTING LINES
Suction - 7/8"
Liquid - 3/8"

DWG.NO. 4TTA3048AD

PRESSURE CURVES FOR 4TTA3048AD



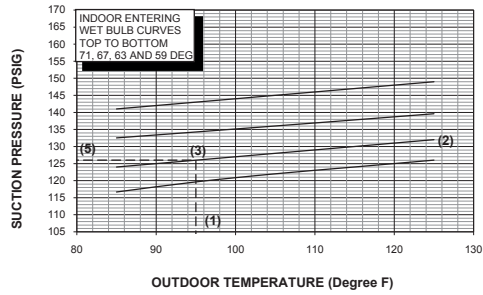
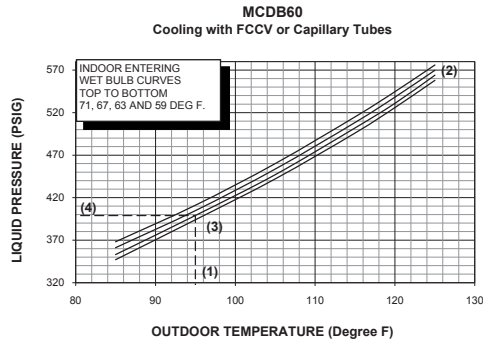
COOLING PERFORMANCE CAN BE CHECKED WHEN THE OUTDOOR TEMP IS ABOVE 85 DEG F.
TO CHECK COOLING PERFORMANCE, SELECT THE PROPER INDOOR CFM, ALLOW PRESSURES TO STABILIZE. MEASURE INDOOR WET BULB TEMPERATURE, OUTDOOR TEMPERATURE, LIQUID AND SUCTION PRESSURES. ON THE PLOTS LOCATE OUTDOOR TEMPERATURE (1); LOCATE INDOOR WET BULB (2); FIND INTERSECTION OF OD TEMP. & ID W.B. (3); READ LIQUID (4) OR SUCTION (5) PRESSURE IN LEFT COLUMN.
EXAMPLE: (1) OUTDOOR TEMP. 95 F.
(2) INDOOR WET BULB 63 F.
(3) AT INTERSECTION
(4) LIQUID PRESSURE @ 1369 CFM IS 390 PSIG
(5) SUCTION PRESSURE @ 1369 CFM IS 134 PSIG

ACTUAL:
LIQUID PRESSURE SHOULD BE +/- 10 PSI OF CHART
SUCTION PRESSURE SHOULD BE +/- 3 PSIG OF CHART

INTERCONNECTING LINES
Suction - 7/8"
Liquid - 3/8"

DWG.NO. 4TTA3048AD

PRESSURE CURVES FOR 4TTA3060AD



COOLING PERFORMANCE CAN BE CHECKED WHEN THE OUTDOOR TEMP IS ABOVE 65 DEG F.
TO CHECK COOLING PERFORMANCE, SELECT THE PROPER INDOOR CFM, ALLOW PRESSURES TO STABILIZE. MEASURE INDOOR WET BULB TEMPERATURE, OUTDOOR TEMPERATURE, LIQUID AND SUCTION PRESSURES. ON THE PLOTS LOCATE OUTDOOR TEMPERATURE (1); LOCATE INDOOR WET BULB (2); FIND INTERSECTION OF OD TEMP. & ID W.B. (3); READ LIQUID (4) OR SUCTION (5) PRESSURE IN LEFT COLUMN.

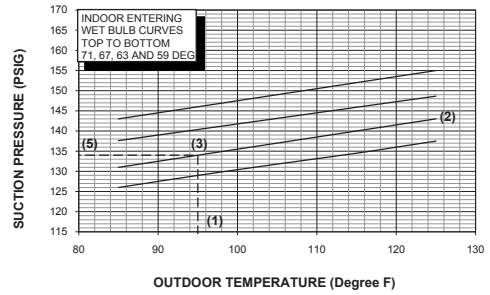
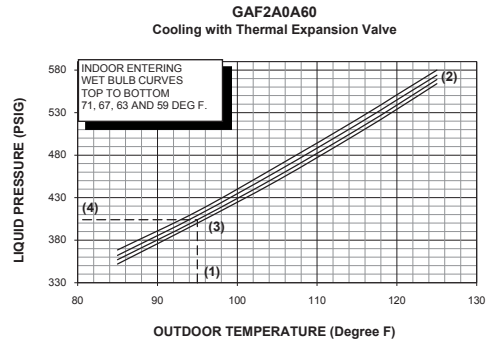
EXAMPLE: (1) OUTDOOR TEMP. 95 F.
(2) INDOOR WET BULB 63 F.
(3) AT INTERSECTION
(4) LIQUID PRESSURE @ 1525 CFM IS 399 PSIG
(5) SUCTION PRESSURE @ 1525 CFM IS 126 PSIG

ACTUAL:
LIQUID PRESSURE SHOULD BE +/- 10 PSI OF CHART
SUCTION PRESSURE SHOULD BE +/- 3 PSIG OF CHART

INTERCONNECTING LINES
GAS - 7/8" O.D.
LIQUID - 3/8" O.D.

DWG.NO. 4TTA3060AD

PRESSURE CURVES FOR 4TTA3060AD



COOLING PERFORMANCE CAN BE CHECKED WHEN THE OUTDOOR TEMP IS ABOVE 65 DEG F.
TO CHECK COOLING PERFORMANCE, SELECT THE PROPER INDOOR CFM, ALLOW PRESSURES TO STABILIZE. MEASURE INDOOR WET BULB TEMPERATURE, OUTDOOR TEMPERATURE, LIQUID AND SUCTION PRESSURES. ON THE PLOTS LOCATE OUTDOOR TEMPERATURE (1); LOCATE INDOOR WET BULB (2); FIND INTERSECTION OF OD TEMP. & ID W.B. (3); READ LIQUID (4) OR SUCTION (5) PRESSURE IN LEFT COLUMN.

EXAMPLE: (1) OUTDOOR TEMP. 95 F.
(2) INDOOR WET BULB 63 F.
(3) AT INTERSECTION
(4) LIQUID PRESSURE @ 1750 CFM IS 134 PSIG
(5) SUCTION PRESSURE @ 1750 CFM IS 404 PSIG

ACTUAL:
LIQUID PRESSURE SHOULD BE +/- 10 PSI OF CHART
SUCTION PRESSURE SHOULD BE +/- 3 PSIG OF CHART

INTERCONNECTING LINES
GAS - 7/8" O.D.
LIQUID - 3/8" O.D.

DWG.NO. 4TTA3060AD