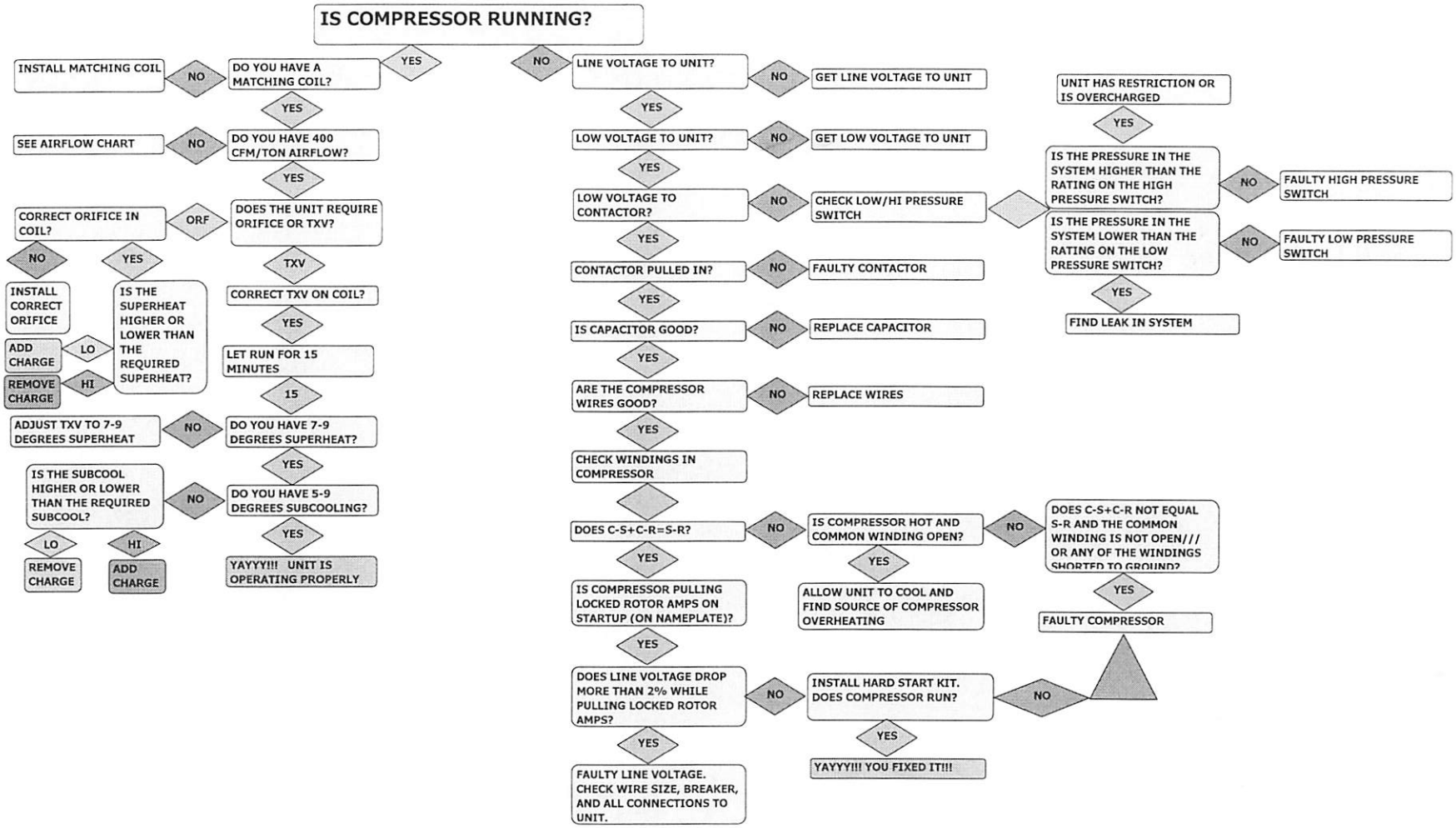
IS COMPRESSOR RUNNING?
YES
DO YOU HAVE A MATCHING COIL?
NO
INSTALL MATCHING COIL
YES
DO YOU HAVE 400 CFM/TON AIRFLOW?
NO
SEE AIRFLOW CHART
YES
DOES THE UNIT REQUIRE ORIFICE OR TXV?
ORF
CORRECT ORIFICE IN COIL?
NO
INSTALL CORRECT ORIFICE
YES
IS THE SUPERHEAT HIGHER OR LOWER THAN THE REQUIRED SUPERHEAT?
LO
ADD CHARGE
HI
REMOVE CHARGE
TXV
CORRECT TXV ON COIL?
YES
LET RUN FOR 15 MINUTES
15
DO YOU HAVE 7-9 DEGREES SUPERHEAT?
NO
ADJUST TXV TO 7-9 DEGREES SUPERHEAT
YES
DO YOU HAVE 5-9 DEGREES SUBCOOLING?
NO
IS THE SUBCOOL HIGHER OR LOWER THAN THE REQUIRED SUBCOOL?
LO
REMOVE CHARGE
HI
ADD CHARGE
YES
YAYYY!!! UNIT IS OPERATING PROPERLY
NO
LINE VOLTAGE TO UNIT?
NO
GET LINE VOLTAGE TO UNIT
YES
LOW VOLTAGE TO UNIT?
NO
GET LOW VOLTAGE TO UNIT
YES
LOW VOLTAGE TO CONTACTOR?
NO
CHECK LOW/HI PRESSURE SWITCH
YES
CONTACTOR PULLED IN?
NO
FAULTY CONTACTOR
YES
IS CAPACITOR GOOD?
NO
REPLACE CAPACITOR
YES
ARE THE COMPRESSOR WIRES GOOD?
NO
REPLACE WIRES
YES
CHECK WINDINGS IN COMPRESSOR
DOES C-S+C-R=S-R?
NO
IS COMPRESSOR HOT AND COMMON WINDING OPEN?
NO
DOES C-S+C-R NOT EQUAL S-R AND THE COMMON WINDING IS NOT OPEN/// OR ANY OF THE WINDINGS SHORTED TO GROUND?
YES
FAULTY COMPRESSOR
YES
ALLOW UNIT TO COOL AND FIND SOURCE OF COMPRESSOR OVERHEATING
YES
IS COMPRESSOR PULLING LOCKED ROTOR AMPS ON STARTUP (ON NAMEPLATE)?
YES
DOES LINE VOLTAGE DROP MORE THAN 2% WHILE PULLING LOCKED ROTOR AMPS?
NO
INSTALL HARD START KIT. DOES COMPRESSOR RUN?
NO
YES
YAYYY!!! YOU FIXED IT!!!
YES
FAULTY LINE VOLTAGE. CHECK WIRE SIZE, BREAKER, AND ALL CONNECTIONS TO UNIT.
UNIT HAS RESTRICTION OR IS OVERCHARGED
YES
IS THE PRESSURE IN THE SYSTEM HIGHER THAN THE RATING ON THE HIGH PRESSURE SWITCH?
NO
FAULTY HIGH PRESSURE SWITCH
IS THE PRESSURE IN THE SYSTEM LOWER THAN THE RATING ON THE LOW PRESSURE SWITCH?
NO
FAULTY LOW PRESSURE SWITCH
YES
FIND LEAK IN SYSTEM