










# DIAGNOSTIC CHART FOR WATER COOLED CHILLER WITH A TXV OR EEV

TXV SYSTEM	SUCTION PRESSURE	HEAD PRESSURE	SUCTION SH	SUBCOOL	COMP AMPS	DELTA T AT EVAP	OIL LEVEL	DISCH TEMP	DISCH SH	COND APPROACH	EVAP APPROACH	COND DELTA T
LIQUID LINE RESTRICTION OF SOME KIND, INCLUDING BAD TXV	↓	NORMAL OR SLIGHTLY LOW	↑	NORMAL OR SLIGHTLY HIGH	↓	↓	NORMAL OR SLIGHTLY LOW	↓	↑	NORMAL OR SLIGHTLY LOW	↑	↓
OVERFEEDING / LOOSE BULB / UNINSULATED BULB	↑	↓	↓	↓	↓	↓	NORMAL OR SLIGHTLY HIGH	↓	↓	↑	↓	NORMAL OR SLIGHTLY LOW
SLIGHTLY LOW CHARGE	NORMAL OR SLIGHTLY LOW	↓	NORMAL	↓	↓	NORMAL OR SLIGHTLY LOW	NORMAL	NORMAL OR SLIGHTLY HIGH	↑	↑	↑	↓
VERY LOW CHARGE	↓	↓	↑	↓	↓	↓	↓	↑	↑	↑	↑	↓
SLIGHTLY OVER CHARGE	NORMAL OR SLIGHTLY HIGH	↑	NORMAL	↑	↑	NORMAL	NORMAL	NORMAL OR SLIGHTLY LOW	NORMAL OR SLIGHTLY LOW	↓	NORMAL OR SLIGHTLY LOW	NORMAL OR SLIGHTLY HIGH

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TXV SYSTEM	SUCTION PRESSURE	HEAD PRESSURE	SUPERHEAT	SUBCOOL	COMP AMPS	DELTA T AT EVAP	OIL LEVEL	DISCH TEMP	DISCH SH	COND APPROACH	EVAP APPROACH	COND DELTA T
LOW EVAP FLOW	↓	NORMAL OR SLIGHTLY LOW	↓	NORMAL OR SLIGHTLY LOW	NORMAL OR SLIGHTLY LOW	↑	NORMAL	↓	↓	↑	↓	NORMAL OR SLIGHTLY LOW
TOO MUCH OIL IN THE SYSTEM / REFRIGERANT	↓	↓	↓	↑	NORMAL	↓	↑	↓	↓	NORMAL OR SLIGHTLY HIGH	↑	↓
LOW CONDENSER FLOW	↑	↑	↓	↓	↑	NORMAL OR SLIGHTLY HIGH	NORMAL	↑	↑	↓	↓	↑
AIR OR NON CONDENSIBLES IN THE SYSTEM	↑	↑	↑	↑	↑	↓	NORMAL	↑	↑	↑	NORMAL OR SLIGHTLY LOW	NORMAL OR SLIGHTLY HIGH
UNDERSIZED EQUIPMENT WHEN RUNNING AND NOT MAKING TEMP	NORMAL OR SLIGHTLY HIGH	NORMAL OR SLIGHTLY HIGH	NORMAL OR SLIGHTLY HIGH	NORMAL OR SLIGHTLY LOW	NORMAL OR SLIGHTLY HIGH	NORMAL	NORMAL	↑	↑	NORMAL OR SLIGHTLY HIGH	↑	NORMAL OR SLIGHTLY HIGH

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VERY OVER CHARGE						NORMAL OR SLIGHTLY HIGH	NORMAL OR SLIGHTLY HIGH					NORMAL OR SLIGHTLY HIGH