



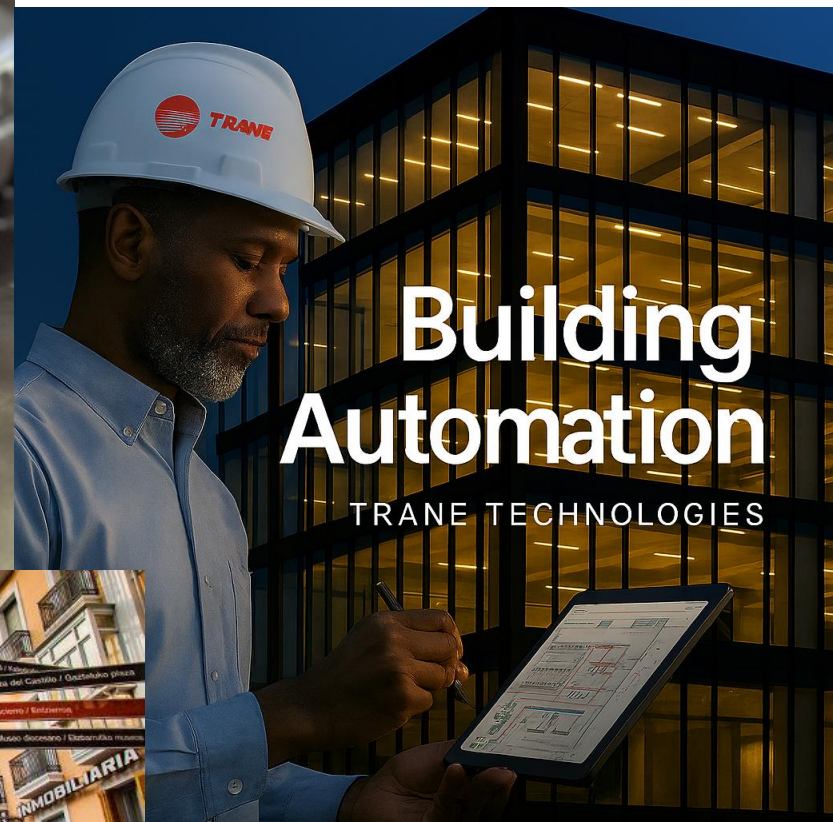
Yesterday's Wishlist, Today's Technology

Austin Fiegel
Automation and Digital Solutions
Trane Chicago

September 25th, 2025

Getting to Zero: Tech Forum

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Chiller Performance Report

Reporting Period: 07/01/2025
Creation Date: 07/23/2025



Chiller Name: RTAF - E24F00088
Sales Order Number: VMH236
Chiller Entered Service Date: August 28, 2024
Chiller Capacity: 206.7 Tons
Serial Number: U23J02473
Model Number: RTAF206ELUAK06UA1NPMX1NWN01XXXX

Compressor Run Hours and Starts

CKT1 - Compressor 1A

— Indicates No Data

	This Month	Jun 2025	Total Life of Equipment
Total Run Hours	548.33	▲ 58%	1532.71
Total Starts	135.0	▼ 24%	1164.0
Average Daily Starts	4.35	▼ 27%	3.45
Average Run Hours/Start	4.06	▲ 100%	1.33

CKT1 - Compressor 1B

— Indicates No Data

	This Month	Jun 2025	Total Life of Equipment
Total Run Hours	179.94	▲ 671%	264.09
Total Starts	30.0	▼ 27%	198.0
Average Daily Starts	0.97	▼ 29%	0.59
Average Run Hours/Start	6.0	▲ 953%	1.23

CKT2 - Compressor 2A

— Indicates No Data

	This Month	Jun 2025	Total Life of Equipment
Total Run Hours	512.89	▲ 54%	2195.01
Total Starts	137.0	▼ 24%	1105.0
Average Daily Starts	4.42	▼ 26%	3.28
Average Run Hours/Start	3.74	▲ 102%	1.9

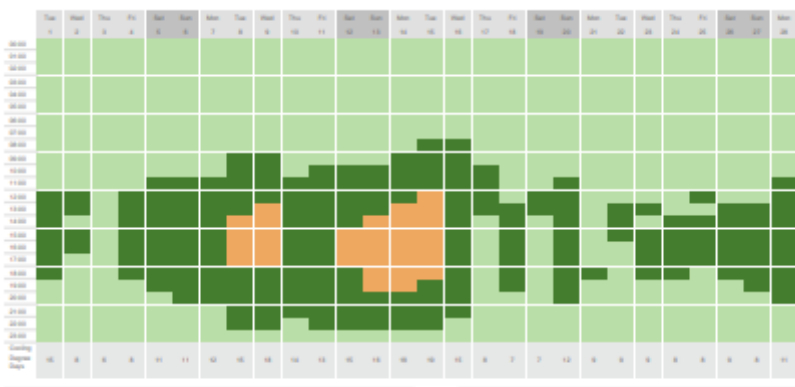


Chiller Performance Report

Reporting Period: 07/01/2025 - 07/31/2025
Chiller Name: RTAF - E

Plant Load Analysis

(Current Month)



Performance/Water Temp

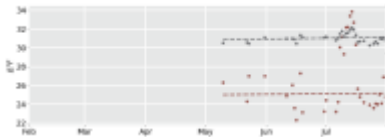
(Current Month)



Circuit Heat Transfer Analysis -Circuit 1

Condenser Heat Transfer* (Plotting 8 months)

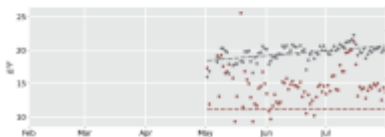
■ Cold Cond Appr Temp Result ■ Cold Cond CWT/Supply Gas



Circuit Heat Transfer Analysis -Circuit 2

Condenser Heat Transfer* (Plotting 8 months)

■ Cold Cond Appr Temp Result ■ Cold Cond CWT/Supply Gas



Chiller Performance Report

Reporting Period: 07/01/2025 - 07/31/2025
Chiller Name: RTAF - E24F00088

Operational Data - Continued

The following metrics indicate how well your chiller is performing relative to industry standard measurements.

(100) design values not applicable
(-/-) meaningless data

Performance Indicator	Design	Units	July Values				Average by Chiller Load Bin - July 2025			
			Avg	Min	Max	CR	0-20%	20-40%	40-60%	60-100%
Comp Voltage Ph C/A	NA	V	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
Comp 1B Voltage Ph C/A	NA	V	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
Comp 2A Voltage Ph C/A	NA	V	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
CK1 Cond Appr Temp Result	NA	Δ°F	13.2	-4.04	38.44	1.4	3.1	12.0	13.8	26.7
CK2 Cond Appr Temp Result	NA	Δ°F	10.1	-4.75	27.45	-5.3	6.6	9.0	16.9	35.3
CK1 Cond Sat Wgt Temp	NA	°F	81.8	81.73	133.14	89.7	76.9	87.6	97.9	114.8
CK2 Cond Sat Wgt Temp	NA	°F	88.7	81.88	122.38	87.9	79.3	81.7	101.0	108.4
Cool Water Temp Delta T	NA	Δ°F	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
CK1 Evap Appr Temp Result	NA	Δ°F	9.6	-3.08	21.38	0.6	2.7	10.9	10.3	18.4
CK2 Evap Appr Temp Result	NA	Δ°F	13.9	0.12	27.43	1.0	12.2	10.8	20.8	19.7
CK1 Evap Sat Wgt Temp	NA	°F	34.9	20.88	63.32	48.7	40.8	32.9	33.7	29.1
CK2 Evap Sat Wgt Temp	NA	°F	35.8	16.16	63.22	49.2	31.2	33.2	23.3	26.9
Comp Oil Temp	NA	°F	154.9	75.28	147.87	82.1	88.9	100.2	108.3	126.7
Comp 1B Oil Temp	NA	°F	84.3	72.21	148.6	79.2	80.4	79.8	87.3	130.3
Comp 2A Oil Temp	NA	°F	103.0	89.64	139.08	91.0	94.1	92.2	115.9	120.0
Chiller Power	281.18	KW	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-

Top Operating Modes

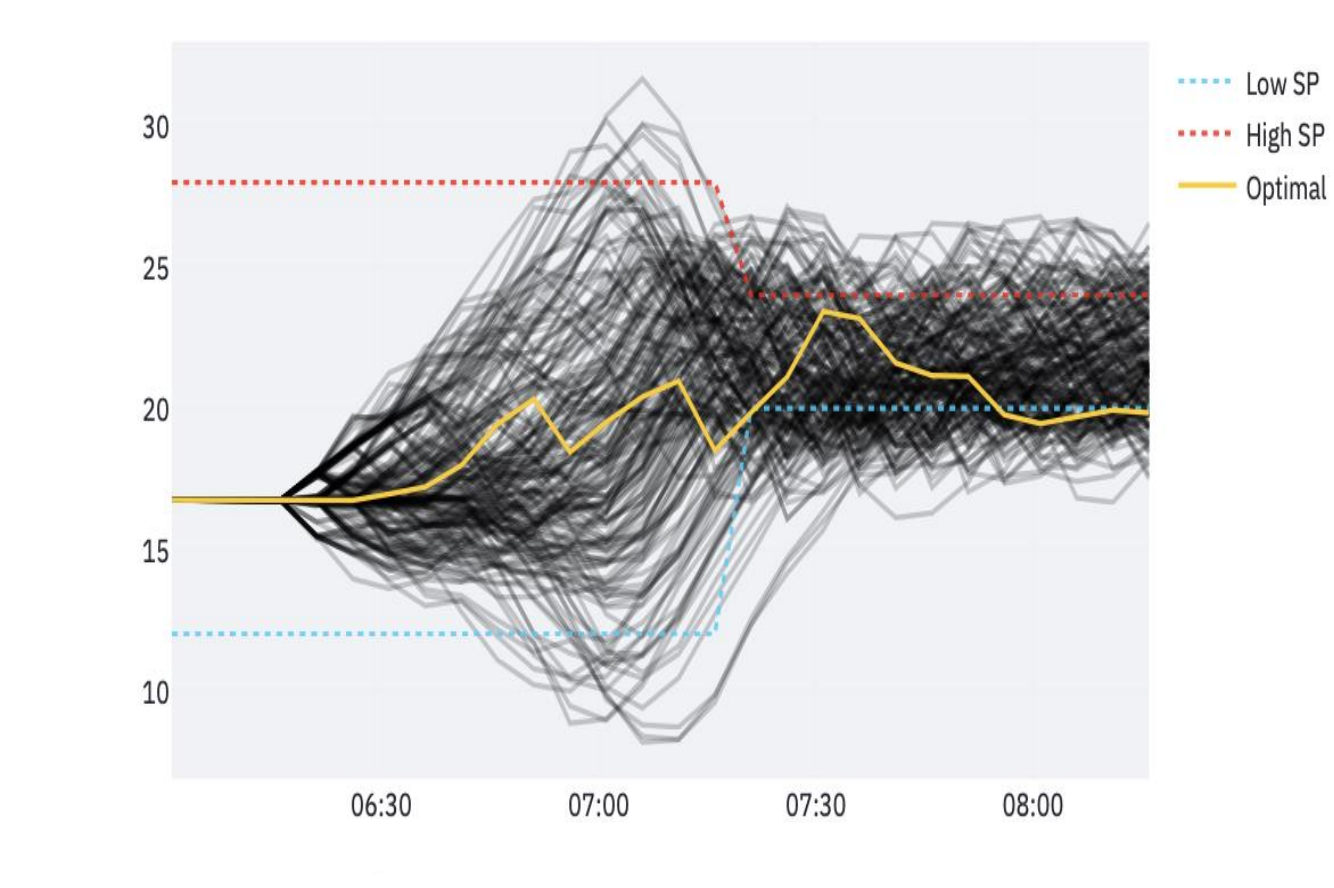
Performance Indicator	July Values		Previous Month	
	# of Hours		# of Hours	
Chiller In Run Mode	890.0		917.76	
Chiller Off	77.75		198.0	
Chiller In Stand Mode	0.75		2.0	
Chiller In Pre-Shutdown Mode	0.0		1.26	
Unknown/Missing Data	-/-		-/-	

Shutdowns

Performance Indicator	July Values		Previous Month	
	# of Shutdowns		# of Shutdowns	
All Shutdowns due to Manual Reset Diagnostic	0		0	
All Shutdowns due to Automatic Reset Diagnostic	0		0	









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