

Report By:

National TAB
1329 E. KEMPER ROAD
SUITE 4210
CINCINNATI, OH 45246



Report: WHEEL BYPASS VALVES

Function: Test, Adjust, & Balance

Date: 11/28/2023

PROJECT

Altium Packaging - Cooling Water System (Lenexa, KS)

11725 W 85th Street

Overland Park, KS 66214

Client

Clark Nexsen

440 Martin Luther King Jr Blvd

Macon, GA 31201



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Project: Altium Packaging - Cooling Water System (Lenexa, KS)

Circuit Setter

WHEEL PROCESS FLOW DEVICES/

Asset									
Asset Name	Size	Type	Service	Design GPM	Cv	Setting	Delta P	Final GPM	% to Design
CS1	2"	MANUAL	LINE 1 BYPASS	36	63.67	2.5	0.35 PSI	38	105.6
CS2	2"	MANUAL	LINE 2 BYPASS	36	63.67	2.4	0.32PSI	36	100.0
CS3	NA	NA	NA	36	NA	0	0	0	0.0
CS4	2"	MANUAL	LINE 4 BYPASS	36	63.67	3.0	0.32 PSI	36	100.0
CS5	2"	MANUAL	LINE 5 BYPASS	36	63.67	2.4	0.308 PSI	35.3	98.1
CS6	2"	MANUAL	LINE 6 BYPASS	36	63.67	2.6	0.31 PSI	35.4	98.3
CS7	2"	MANUAL	LINE 7 BYPASS	36	63.67	2.5	0.35	38	105.6
CS8	2"	MANUAL	LINE 8 BYPASS	36	63.67	2.6	0.34 PSI	37	102.8
CS9	2"	MANUAL	LINE 9 BYPASS	36	63.67	2.5	0.33PSI	36.6	101.7
CS10	2"	MANUAL	LINE 10 BYPASS	36	63.67	2.6	0.32 PSI	36	100.0
CS11	2"	MANUAL	LINE 11 BYPASS	36	63.67	2.7	0.35 PSI	38	105.6
CS12	6"	MANUAL	HEADER BYPASS (LINE 1)	100	26.98	1.7	7.65PSI	74.6	74.6
CS13	6"	MANUAL	HEADER BYPASS (LINE 12)	238	82.03	2.8	5.71 PSI	196	82.4
CS14	2"	MANUAL	LAIKOS FILTER	85	63.67	4.0	2.08PSI	92	108.2
CS15	6"	MANUAL	CHILLER	480	NA	8.0	1.22 PSI	477	99.4
Total				1299				1205.9	92.83%



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Project: Altium Packaging - Cooling Water System (Lenexa, KS)

Circuit Setter

WHEEL CHILLED FLOW DEVICES/

Asset									
Asset Name	Size	Type	Service	Design GPM	Cv	Setting	Delta P	Final GPM	% to Design
CS1	3/4"	MANUAL	LINE 1 BYPASS	2	6.16	0.1	0.218 PSI	2.87	145.0
CS2	3/4"	MANUAL	LINE 2 BYPASS	2	6.16	0.1	0.233 PSI	2.97	150.0
CS3	NA	MANUAL	LINE 3 BYPASS	2	6.16	NA	NA	0	0.0
CS4	3/4"	MANUAL	LINE 4 BYPASS	2	6.16	0.1	0.262 PSI	3.15	160.0
CS5	3/4"	MANUAL	LINE 5 BYPASS	2	6.16	0.1	0.251 PSI	3.08	155.0
CS6	3/4"	MANUAL	LINE 6 BYPASS	2	6.16	0.1	0.257 PSI	3.12	155.0
CS7	3/4"	MANUAL	LINE 7 BYPASS	2	6.16	0.1	0.241 PSI	3.02	150.0
CS8	3/4"	MANUAL	LINE 8 BYPASS	2	6.16	0.1	0.250 PSI	3.08	155.0
CS9	3/4"	MANUAL	LINE 9 BYPASS	2	6.16	0.1	0.239 PSI	3.01	150.0
CS10	3/4"	MANUAL	LINE 10 BYPASS	2	6.16	0.1	0.252 PSI	3.09	155.0
CS11	3/4"	MANUAL	LINE 11 BYPASS	2	6.16	0.1	0.282 PSI	3.27	165.0
Total				22				30.6599999999 99997	139.36%