

CHILLED WATER AIR HANDLING UNITS																
EXISTING UNIT TAG	---	AHU-1	AHU-2	AHU-3	AHU-4	AHU-5	AHU-6	AHU-7	AHU-8	AHU-9	AHU-10	AHU-11	AHU-12	AHU-13	AHU-14	AHU-15
NEW HCPS TAG	---	AHU-01	AHU-02	AHU-03	AHU-04	AHU-05	AHU-06	AHU-07	AHU-08	AHU-09	AHU-10	AHU-11	AHU-12	AHU-13	AHU-14	AHU-15
NET TOTAL COOLING CAPACITY	MBH	326.40	443.10	1,146.20	1,387.70	1,056.50	895.70	265.00	946.00	186.40	752.40	346.80	1,011.80	1,011.80	257.40	138.20
NET SENSIBLE COOLING CAPACITY	MBH	213.90	288.90	659.50	823.90	620.80	581.70	182.60	532.00	111.50	417.10	186.80	509.40	500.40	161.10	68.10
SUPPLY AIR	CFM	8,200	10,200	23,500	29,000	23,500	22,000	7,700	16,840	4,200	13,270	5,700	12,500	12,500	5,800	1,800
OUTSIDE AIR	CFM	1,830	2,300	6,910	7,725	6,050	4,200	1,100	6,040	830	4,870	2,660	7,550	7,550	1,455	1,800
AIR PRESSURE LOSS EXT.	IN. WTR.	1.75	1.75	2.00	2.00	2.25	2.25	1.50	2.25	1.50	2.00	1.50	1.25	1.25	1.50	0.50
MAX. FAN SPEED	RPM	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MOTOR SIZE	BHP/HP (Existing)	--- / --- (10)	--- / --- (15)	--- / --- (25)	--- / --- (30)	--- / --- (30)	--- / --- (25)	--- / --- (10)	--- / --- (20)	--- / --- (5)	--- / --- (20)	--- / --- (7.5)	--- / --- (15)	--- / --- (15)	--- / 23	--- / 24
DRIVE TYPE	---	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
MOTOR CONTROL	---	VFD	VFD	VFD	VFD	VFD	VFD	VFD	VFD	VFD	VFD	VFD	VFD	VFD	VFD	VFD
COOLING COIL (MAXIMUM ALLOWED)	ROWS/FINS	8 / 10	8 / 10	8 / 10	8 / 10	8 / 10	8 / 10	8 / 10	8 / 10	8 / 10	8 / 10	8 / 10	8 / 10	8 / 10	8 / 10	8 / 10
MAX. FACE VELOCITY	FPM	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
ENT. AIR TEMP. DBWB	°F / °F	80.2 / 66.9	79.9 / 66.9	81.7 / 69.7	80.2 / 66.9	81.2 / 69.1	79.5 / 66.8	78.7 / 65.5	82.8 / 70.6	79.6 / 68.1	83.1 / 71.0	85.4 / 72.7	87.3 / 74.9	87.3 / 74.9	80.1 / 67.9	95.0 / 80.0
LVG. AIR TEMP. DBWB	°F / °F	52.1 / 51.1	52.3 / 51.3	52.3 / 51.5	52.1 / 51.1	52.0 / 51.2	52.1 / 51.3	52.1 / 51.1	51.9 / 51.2	52.1 / 51.3	51.6 / 50.9	52.0 / 51.3	48.5 / 48.2	48.5 / 48.2	52.0 / 51.0	60.0 / 59.1
WATER TEMP. ENT./LVG.	°F / °F	44.0 / 59.0	44.0 / 59.0	44.0 / 59.0	44.0 / 59.0	44.0 / 59.0	44.0 / 59.0	44.0 / 59.0	44.0 / 59.0	44.0 / 59.0	44.0 / 59.0	44.0 / 59.0	44.0 / 59.0	44.0 / 59.0	44.0 / 59.0	44.0 / 59.0
MAX. WATER PRESSURE DROP	FT. WTR.	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
FILTER TYPE	---	PLEATED	PLEATED	PLEATED	PLEATED	PLEATED	PLEATED	PLEATED	PLEATED	PLEATED	PLEATED	PLEATED	PLEATED	PLEATED	PLEATED	PLEATED
THICKNESS	INCHES	2" PRE / 4" FINAL	2" PRE / 4" FINAL	2" PRE / 4" FINAL	2" PRE / 4" FINAL	2" PRE / 4" FINAL	2" PRE / 4" FINAL	2" PRE / 4" FINAL	2" PRE / 4" FINAL	2" PRE / 4" FINAL	2" PRE / 4" FINAL	2" PRE / 4" FINAL	2" PRE / 4" FINAL	2" PRE / 4" FINAL	2" PRE / 4" FINAL	2" PRE / 4" FINAL
MERV RATING	---	8 / 13	8 / 13	8 / 13	8 / 13	8 / 13	8 / 13	8 / 13	8 / 13	8 / 13	8 / 13	8 / 13	8 / 13	8 / 13	8 / 13	8 / 13
ELECTRICAL	V/PH/Hz	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60
PIPE CONNECTION SIDE	LEFT OR RIGHT	RIGHT	RIGHT	RIGHT	RIGHT	RIGHT	RIGHT	LEFT	LEFT	RIGHT	LEFT	RIGHT	RIGHT	RIGHT	RIGHT	LEFT
CONDENSATE CONNECTION SIDE	LEFT OR RIGHT	RIGHT	RIGHT	LEFT	LEFT	RIGHT	RIGHT	LEFT	LEFT	RIGHT	LEFT	RIGHT	RIGHT	RIGHT	RIGHT	LEFT
FAN ACCESS SIDE	LEFT/RIGHT/BOTH	LEFT	RIGHT	RIGHT	BOTH	BOTH	BOTH	BOTH	LEFT	BOTH	LEFT	BOTH	RIGHT	RIGHT	RIGHT	LEFT
FILTER ACCESS SIDE	LEFT/RIGHT/BOTH	BOTH	RIGHT	BOTH	BOTH	BOTH	BOTH	BOTH	LEFT	BOTH	BOTH	BOTH	RIGHT	BOTH	RIGHT	LEFT
BASE RAIL HEIGHT (MINIMUM)	INCHES	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"
UNIT ORIENTATION	---	VERTICAL	VERTICAL	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL	HORIZONTAL	HORIZONTAL	VERTICAL	VERTICAL
SHIPPING	---	VERT. SPLIT	KNOCKDOWN	KNOCKDOWN	KNOCKDOWN	KNOCKDOWN	KNOCKDOWN	VERT. SPLIT	FAN/COIL/FILTER	VERT. SPLIT	FAN/COIL/FILTER	VERT. SPLIT	FAN/COIL/FILTER	FAN/COIL/FILTER	VERT. SPLIT	NONE
NOTES	---	1,3,4,5,6,7,8,9,11,13	1,3,4,5,6,7,8,9,12,13	2,3,4,5,6,7,8,10,11,13	2,3,4,5,6,7,8,10,11,13	2,3,4,5,6,7,8,10,11,13	2,3,4,5,6,7,8,10,11,13	1,3,4,5,6,7,8,9,11,13	1,3,4,5,6,7,8,9,11,13	1,3,4,5,6,7,8,9,11,13	1,3,4,5,6,7,8,9,11,13	1,3,4,5,6,7,8,9,11,13	1,3,4,5,6,7,8,9,11,13	1,3,4,5,6,7,8,9,11,13	1,3,4,5,6,7,8,9,11,13	1,3,4,5,6,7,8,9,11,13

1. VERTICAL UNIT CONFIGURATION: REFER TO EXISTING VERTICAL SINGLE PATH AIR HANDLER DETAIL THIS DRAWING FOR DETAILS.

2. HORIZONTAL UNIT CONFIGURATION: REFER TO EXISTING SINGLE PATH AIR HANDLER DETAIL THIS DRAWING FOR DETAILS.

3. PROVIDE MINIMUM 6" HIGH BASE RAIL.

4. UNITS SHALL BE FACTORY PAINTED WITH STANDARD CORPORATE COLORS.

5. VARIABLE FREQUENCY DRIVES SHALL BE PROVIDED WITH UNITS FOR FIELD MOUNTING AND WIRING ON WALL BY OTHERS.

6. DRAIN PANS SHALL BE STAINLESS STEEL AND POSITIVELY SLOPED TO DRAIN POINT IN ACCORDANCE WITH ASHRAE 90.1.

7. COIL CONNECTIONS SHALL BE RED BRASS.

8. UNITS SHALL NOT EXCEED EXISTING UNIT DIMENSIONS NOTED ON EXISTING UNIT SCHEDULES.
9. WHERE AVAILABLE UNITS SHALL BE PROVIDED WITH DIRECT DRIVE FANS. WHERE ECM MOTORS ARE THE ONLY OPTION A BELT-DRIVEN FAN SHALL BE PROVIDED. PREFERENCE WILL BE GIVEN TO DIRECT DRIVE CONFIGURATIONS WITH STANDARD MOTORS.

10. UNITS SHALL BE PROVIDED WITH MULTIPLE DIRECT DRIVE FANS.

11. PATHWAY TO MECHANICAL ROOM IS THROUGH A 6" WIDE AND 6'-8" DOOR OPENING. UNITS LARGER THAN THIS SHALL BE CONFIGURED TO BE SHIPPED FOR FIELD ASSEMBLY OR AT A MINIMUM BE ABLE TO BE BROKEN DOWN. FACTORY SHALL PROVIDE NEW GASKETS FOR FIELD DISASSEMBLY AND REASSEMBLY AS WELL AS FACTORY PERSONNEL ON SITE TO ASSIST IN REASSEMBLY OF UNIT AND PROVIDE CERTIFICATION THAT UNIT IS PROPERLY CONSTRUCTED AND SEALED.

12. PATHWAY TO MECHANICAL ROOM IS THROUGH A 3" WIDE AND 6'-8" DOOR OPENING. UNITS LARGER THAN THIS SHALL BE CONFIGURED TO BE SHIPPED FOR FIELD ASSEMBLY OR AT A MINIMUM BE ABLE TO BE BROKEN DOWN. FACTORY SHALL PROVIDE NEW GASKETS FOR FIELD DISASSEMBLY AND REASSEMBLY AS WELL AS FACTORY PERSONNEL ON SITE TO ASSIST IN REASSEMBLY OF UNIT AND PROVIDE CERTIFICATION THAT UNIT IS PROPERLY CONSTRUCTED AND SEALED.
13. REFER TO SPECIFICATION SECTION 237313 FOR BID ALTERNATES FOR PREVENTATIVE MAINTENANCE.

M	AIR COOLED CHILLER SCHEDULE		
236423			
ITEM NO.	---	CH-3	
NOMINAL CAPACITY	TONS	150	
AHRI RATED CAPACITY	TONS		
CHILLED WATER FLOW @ 10°F ΔT	GPM	360	
CHILLER FLOW RANGE (MIN./MAX.)	GPM	195 / 525	
MAX. PRESSURE DROP @ 10°F ΔT	FT. HD.	15	
TEMPERATURE ENT./LVG	°F/°F	55 / 45	
AMBIENT AIR	°F	95	
REFRIGERANT TYPE	---	R-32 OR R454B	
MIN. NO. OF COMPRESSORS	---	4	
MINIMUM OPERATING CAPACITY	%	25	
NO. OF CONDENSER FANS	---	10	
UNIT MIN. EER/PLV/NPLV	BTU/HWATT	10.1 FL / 14.0 IPLV	
MCAM/OCF	AMPS/WAMPS	--- / 400	
ELECTRICAL	V/PH./HZ.	460/3/60	
CONTROLS	---	BacNet	
WEIGHT	LBS.	10,000	
MAX. DIMENSIONS	LxWxH	250x90x100	
LOCATION	---	Chiller Plant	
NOTES	---	ALL	

1. FACTORY INSTALLED MICROPROCESSOR CONTROLS WITH CLEAR LANGUAGE DISPLAY

2. FACTORY INSTALLED ADVANCED MOTOR PROTECTION.

3. FACTORY INSTALLED SINGLE POINT POWER CONNECTION

4. PROVIDE A FACTORY INSTALLED DISCONNECT SWITCH WITH 65,000 AIC SHORT CIRCUIT RATING FOR CHILLER.

5. PROVIDE FACTORY INSTALLED 1.5" ON THE EVAPORATOR AND 0.75" ON THE SUCTION PIPING. UV RESISTANT POWER.

6. PROVIDE FACTORY INSTALLED THERMAL DISPERSION FLOW SWITCH.

7. PROVIDE CONDENSER COILS WIRE GRILLES AND BASE FRAME WIRE GRILLES.

8. PROVIDE A FACTORY INSTALLED AND WIRED CONTROL POWER TRANSFORMER TO PROVIDE CONTROL POWER.

9. PROVIDE VARIABLE SPEED FAN (VFD OR ECM) ON THE LEAD CONDENSER FAN ON EACH CIRCUIT.

10. PROVIDE A CONDENSER COIL COATING WITH A MINIMUM OF 10,000 HOURS IN THE ASTM B-117 SALT SPRAY TEST. COATING MAY NOT DECREASE HEAT TRANSFER BY MORE THAN 1%. ADSIL, LUVATA AND FACTORY APPLIED COMPLETE COAT ARE APPROVED. BAKE PHENOLIC COATINGS ARE NOT ACCEPTABLE.

11. PROVIDE FACTORY PUMP CONTROL.

12. FACTORY STARTUP BY A FACTORY AUTHORIZED TECHNICIAN.

13. PROVIDE FACTORY INSTALLED STRAINER.

14. PROVIDE LIQUID, DISCHARGE AND SUCTION SERVICE VALVES.

15. PROVIDE FACTORY VIBRATION ISOLATORS.

16. ALL PANELS INCLUDING BASERAIL SHALL BE FACTORY PAINTED ON ALL SURFACES.

17. REFER TO SPECIFICATION SECTION 236423 FOR BID ALTERNATES FOR WARRANTY AND SERVICE.

18. ACCEPTABLE MANUFACTURERS INCLUDE TRANE, DAIKIN, CARRIER AND YORK.

HVAC REPLACEMENT AND MINOR RENOVATIONS

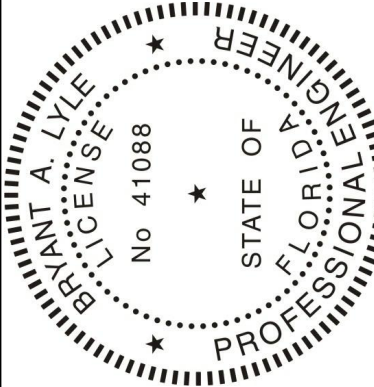
STEINBRENNER HIGH SCHOOL

HILLSBOROUGH COUNTY PUBLIC SCHOOLS

5575 W LUTZ LAKE FERN RD, LUTZ, FL 33558

SHEET TITLE:	
PRE-PURCHASED EQUIPMENT SCHEDULES	
Date:	5/30/2025
Drawn / Checked	AAG/ BAL
Project No.	25016
Sheet No.:	

M6.01



TO THE BEST OF THE ARCHITECT'S OR ENGINEER'S KNOWLEDGE, THESE SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND REGULATIONS AND HAVE BEEN PREPARED AS DETERMINED BY THE LOCAL AUTHORITY HAVING JURISDICTION OVER AND ENFORCED BY THE FLORIDA STATUTES CHAPTER 633, FLORIDA STATUTES

BAL
ENGINEERING, INC.
CONSULTING ENGINEERS
1544 Whiskey Rd.
Lutz, Florida 33549
www.balengineering.com
Registry No. 31211
813.333.2103