WATER COOLED MAGNETIC BEARING CENTRIFUGAL CHILLERS HNH-JERSEY SHORE UNIV MEDICAL CENTER **WATER-COOLED ELECTRICAL REQUIREMENTS** Chiller Weight AHRI Header Data Cooling/Heating Performance **Evaporator Data** Condenser Data Refrigerant Entering Fluid Leaving Fluid Entering Fluid Leaving Fluid PressureDrop Total Input Power [kW] NPLV.IP Fouling Factor Pressure Drop Flow Rate Capacity MCA [A] FLA [A] Starter Type Efficiency Temperature Temperature Fluid Type Temperature Temperature Fluid Type Type [USGPM] [h ft2 F/Btu] [USGPM] [ft H2O] Weight [lbs] Quantity [tons.R] [kW/tons.R] [kW/tons.R] [ft H2O] [h ft2 F/Btu] Weight [lbs] Unit [lbs] Certification [kW/tons.R] [ºF] CH-1, CH-2, YZ_MA129BV1 CH-3, CH-4, 1250 0.574 0.3554 0.000100 96.00 0.000250 7.52 717.5 925 78030 R-1233zd(E) 3295 AHRI Note: 1 42.00 Water Notes: For individual unit rating version, see the unit performance report. 1. Certified in accordance with the AHRI Water-Cooled Water Chilling and Heat Pump Water-Heating Packages Certification Program, which is based on AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI). Certified units may be found in the AHRI Directory at www.ahridirectory.org. Auxiliary components included in total kW - Chiller controls.

											HEAT R	RECOVER	Y CENTRI	FUGAL C	HILLER											
											HNH	H-JERSEY SH	ORE UNIV N	IEDICAL CEI	NTER											
												W	ATER-COOL	ED												
	Head	er Data		Cooling/Heatin	g Performance			Evapora	ator Data					Conde	nser Data				ELECTRICAL F	EQUIREMENTS		Chiller	Weight	Refr	igerant	AHRI
Model	Tags	Chiller Quantity	Starter Type	Capacity Cool [tons.R] / Heat [MBH]	Full Load Efficiency [kW/tons.R]	Entering Fluid Temperature [ºF]	Leaving Fluid Temperature [ºF]	Flow Rate [USGPM]	Fouling Factor [h ft2 F/Btu]	Fluid Type	Pressure Drop [ft H2O]	Entering Fluid Temperature [ºF]	Leaving Fluid Temperature [ºF]	Flow Rate [USGPM]	Fouling Factor [h ft2 F/Btu]	Fluid Type	PressureDrop [ft H2O]	Total Input Power [kW]	FLA [A]	LRA [A]	MCA [A]	Shipping Weight [lbs]	Operating Weight [lbs]	Туре	Quantity Per Unit [lbs]	AHRI Certificati
YKP8QD-ERES AZ-HP	HRCH-1	1	Low Voltage Variable Speed Drive	366 / 6000	3.001	57.00	42.00	583.8	0.000100	Water	8.32	140.00	160.00	611.1	0.000250	Water	5.98	258.9/325.6	338.0/423.0	3111.0/3450.0	423.0/529.0	36465	38254	R-1234ze	1441	AHRI Note
otes: For individ	dual unit rating	version, see the	unit performanc	e report.							'															

	AIR ELIMINATOR / DIRT SEPARATOR				3										COC	DLING T	TOW	ERS		
TAG	CONSTRUCTION	PIPE SIZE	VOLUME GAL.	FLOW GPM	DRY WEIGHT LBS.	MFG. MODEL	REMARKS		0550,405		7) (7)	CAP.				AMBIENT AIR		FAN	 I	\/\P\\/\I
AS-1	STEEL	36"	3,550	15,000	19,200	SPIROTHERM VDN3600FA	1 THRU 12	MARI	SERVICE	LOCATION	TYPE	TONS (EACH)	EWT	LWT	GPM	WB ∘F	QTY. HP	TYPE	CFM	V/PH/HZ L
AS-2	STEEL	30"	2,050	10,000	12,220	SPIROTHERM VDN3000FA	1 THRU 12						'	'		'	(EA.)			
AS-3	STEEL	8"	40	650	456	SPIROTHERM VDT800FAM	1 THRU 13	CT-1, CT-2, CT-4, C1	₅ CΠ-3, CΠ-4, α CI	1-5 STRUCTURAL	INDUCED DRAFT COUNTER FLOW	1863	96	86	5589	78.0	2 50	BELT / PROPELLER	412,500	460/3/60
REMAR	<u>KS</u> :							,	CONDENSER WA	IER										

15. FACTORY MUTUAL APPROVED

· · · · · · · · · · · · · · · · · · ·	D = W V D K C
4. FLOAT: NON-FERROUS	<u>REMARKS</u> :
5. SEAL: VITON	1. EQUALIZER CONNECTION; BOTTOM; 14"; ASA
6. O RING: VITON	2. LOUVER ACCESS DOOR
7. SKIM VALVE: BRASS	3. MOTOR DAVIT WITH BASE
8. COALESCING MEDIUM: COPPER	4. WATER SILENCERS
9. BALL VALVE: BRASS	5. FAN MOTOR: SPACE HEATERS (QTY. 2)
10. MAX. WORKING PRESSURE: 150 PSIG	6. 5-PROBE ELECTRONIC WATER LEVEL CONTROL PA
11. MAX. OPERATING TEMPERATURE: 270°F	7. EXTERNAL SERVICE PLATFORM WITH LADDER (QT
12. REMOVABLE LOWER PORTION TO FACILITATE CLEANING IF REQUIRED	8. STAINLESS STEEL HEATERS (0°F AMBIENT) (4) 16K'
13. MAGNETS: NEODYMIUM	9. FAN MOTOR: INVERTER CAPABLE, PREMIUM EFFIC
	10. FAN MOTOR: SHAFT GROUNDING RINGS (QTY. 2)

RI	EMARKS:
1.	EQUALIZER CONNECTION; BOTTOM; 14"; ASA
2.	
3.	MOTOR DAVIT WITH BASE
4.	WATER SILENCERS
5.	FAN MOTOR: SPACE HEATERS (QTY. 2)
6.	5-PROBE ELECTRONIC WATER LEVEL CONTROL PACKAGE
7.	EXTERNAL SERVICE PLATFORM WITH LADDER (QTY. 2)
8.	STAINLESS STEEL HEATERS (0°F AMBIENT) (4) 16KW, 460V/3PH/60HZ
9.	FAN MOTOR: INVERTER CAPABLE, PREMIUM EFFICIENT (QTY. 2)
10	. FAN MOTOR: SHAFT GROUNDING RINGS (QTY. 2)
11	. STAINLESS STEEL FAN SHAFT
12	. SAFETY CAGE
13	. SUMP SWEEPER PIPING (HIGH FLOW EDUCTORS)
	. SUPER LOW SOUND FAN

		NDENSE		EK			/ 00	0.1.0	
Mtg. / M	odel (Basi	s-ot-Desi	gn)		Ame	riwate	er / 33	10 LP	
Standard P	ressure (Copp	er Piping)		I	Maximum F	oump In	let Pre	ssure (110PSI)	
Filtration R	ating				0.5 Micro	n	0	.25 Micron**	
Backwash	Flow Rate (GP	PM)		45				35	
Backwash	Total Gallons (5 Min. Durat	ion)	675 525					
Pump (HF	P / Voltage / An	nps / Ph / RF	PM)	7.5 / 460V / 9.4 / 3 / 3450					
(Copper Only)					7.5	3 / 3450			
Valve Size			1 & 2				2.0"		
valve Size	/aive Size				3 & 4			1.5"	
					Filter In/C	ut		6.0"	
Recommer	nded Piping Siz	ze		City	y Backwash	ı Inlet		2.0"	
				В	Backwash to	Drain		2.0"	
Vessel Cor	ntruction / Diam	neter			304L	Stainles	s Steel	/ 30"	
Recommer	nded Space				1:	2' D x 6'	W x 8'	Н	
Shipping /	Operating Wei	ght				10,000	lbs.		
Piping	Α	В	С		D	Е		F	
Copper	1371/4"	27½"	26"		64 ³ ⁄ ₁₆ "	35 ³ ⁄	4 "	821/8"	
Piping	G	Н	I		J	K		L	
Copper	821/4"	8 ⁷ / ₈ "	23 ⁵ ⁄16'	"	33"	56 ³ ⁄	16 "	56 ³ ⁄16"	

BASIS OF DESIGN

EVAPCO / AT 214-3048-FM

REMARKS

1 THRU 15

NC	DIES:
1.	COOLING TOWER FILTERS INCLUDE OPTIONAL TOWER WATER BACKWA

				Suction Diffuser			
TAG	QTY	MODEL NUMBER	PART NUMBER	SYSTEM SIDE SIZE (in)	PUMP SIDE SIZE (in)	CONNECTION TYPE	OPTIONS
CHWP 6-7	1	HG-3X	115126	8	6	Flanged/Flanged	Stainless Steel
CWP 1-5	5	JJ-3X	115129	10	10	Flanged/Flanged	Stainless Steel
HWP 1-2	2	HG-3X	115126	8	6	Flanged/Flanged	Stainless Steel
CHWP 1-5	4	JH-3X	115128	10	8	Flanged/Flanged	Stainless Steel

			Triple	Duty Valve			
TAG	QTY	MODEL NUMBER	PART NUMBER	SIZE (in)	VALVE SETTING	VALVE DESIGN	CONNECTION TYPE
CHW 1-5	5	3DS-16B	132168	16	60%	Straight	Flanged
CWP 1-5	5	3DS-16B	132168	16	90%	Straight	Flanged
CHWP 6-7	1	3DS-6S	132126	6	70%	Straight	Flanged
HWP 1-2	2	3DS-6S	132126	6	70%	Straight	Flanged

				EXPANSION TAN	IKS ·			
TAG	MFG./MODEL	TANK VOL. (GAL.)	TANK DIA. (IN.)	TANK HT. (IN.)	STAND DIA. (IN.)	SYS. CONN. (NPTF) (IN.)	DRAIN CONN. (IN.)	SHIPPING WT. (LBS.)
ET-1, ET-2, ET-3, ET-4	AMTROL / 3000-L	792	48	118	42	2	1-1/2	2950
 								
		•		•	•			•

NOTES:
INCLUDE SEISMIC RESTRAINTS

ASME CERTIFIED
 SHELL: STEEL
 VENT HEAD: BRASS

							Com	nmercial Pumps									
TAG	MODEL NUMBER	PUMP TYPE	PUMP SIZE	DUTY POINT HEAD	FLOW RATE	TDH	DUTY POINT EFFICIENCY	PLEV EFFICIENCY	BHP POWER	DUTY POINT POWER	PUMP SPEED	IMPELLER DIAMETER	NPSHR	NOL POWER	MOTOR FRAME	MIN FLOW	REMARKS
CHWP 1	VSCS-6X8X17P5A-447TTS-STL	VSX-VSCS	6x8x17.5A	250 ft	2500 US gpm	250 ft	81.5	81	194	250	1706	17.5 in	13.1	249	NEMA447	501	ABB ULHD VFD
CHWP 2	VSCS-6X8X17P5A-447TTS-STL	VSX-VSCS	6x8x17.5A	250 ft	2500 US gpm	250 ft	81.5	81	194	250	1706	17.5 in	13.1	249	NEMA447	501	ABB ULHD VFD
CHWP 3	VSCS-6X8X17P5A-447TTS-STL	VSX-VSCS	6x8x17.5A	250 ft	2500 US gpm	250 ft	81.5	81	194	250	1706	17.5 in	13.1	249	NEMA447	501	ABB ULHD VFD
CHWP 4	VSCS-6X8X17P5A-447TTS-STL	VSX-VSCS	6x8x17.5A	250 ft	2500 US gpm	250 ft	81.5	81	194	250	1706	17.5 in	13.1	249	NEMA447	501	ABB ULHD VFD
CHWP 5	VSCS-6X8X17P5A-447TTS-STL	VSX-VSCS	6x8x17.5A	250 ft	2500 US gpm	250 ft	81.5	81	194	250	1706	17.5 in	13.1	249	NEMA447	501	ABB ULHD VFD
CHWP 6	VSCS-4X6X17P5A-404TTS-STL	VSX-VSCS	4x6x17.5A	250 ft	650 US gpm	250 ft	64	55.3	64	100	1755	15.375 in	6.42	99	NEMA404	266	ABB ULHD VFD
CHWP 7	VSCS-4X6X17P5A-404TTS-STL	VSX-VSCS	4x6x17.5A	250 ft	650 US gpm	250 ft	64	55.3	64	100	1755	15.375 in	6.42	99	NEMA404	266	ABB ULHD VFD
CWP 1	VSCS-8X10X17P5B-447TTS-STL	VSX-VSCS	8x10x17.5B	200 ft	3752 US gpm	200 ft	85.3	81.6	221	250	1729	17.5 in	17.8	243	NEMA447	905	ABB ULHD VFD
CWP 2	VSCS-8X10X17P5B-447TTS-STL	VSX-VSCS	8x10x17.5B	200 ft	3752 US gpm	200 ft	85.3	81.6	221	250	1729	17.5 in	17.8	243	NEMA447	905	ABB ULHD VFD
CWP 3	VSCS-8X10X17P5B-447TTS-STL	VSX-VSCS	8x10x17.5B	200 ft	3752 US gpm	200 ft	85.3	81.6	221	250	1729	17.5 in	17.8	243	NEMA447	905	ABB ULHD VFD
CWP 4	VSCS-8X10X17P5B-447TTS-STL	VSX-VSCS	8x10x17.5B	200 ft	3752 US gpm	200 ft	85.3	81.6	221	250	1729	17.5 in	17.8	243	NEMA447	905	ABB ULHD VFD
CWP 5	VSCS-8X10X17P5B-447TTS-STL	VSX-VSCS	8x10x17.5B	200 ft	3752 US gpm	200 ft	85.3	81.6	221	250	1729	17.5 in	17.8	243	NEMA447	905	ABB ULHD VFD
HWP 1	VSCS-4X6X17P5A-365TTS-STL	VSX-VSCS	4x6x17.5A	200 ft	650 US gpm	200 ft	66.8	58.8	48	75	1708	14.25 in	6.17	74.8	NEMA365	233	ABB ULHD VFD
HWP 2	VSCS-4X6X17P5A-365TTS-STL	VSX-VSCS	4x6x17.5A	200 ft	650 US gpm	200 ft	66.8	58.8	48	75	1708	14.25 in	6.17	74.8	NEMA365	233	ABB ULHD VFD

DIMENSIONS

47'-8-1/2" 13'-11-1/4" 20'-2"

LENGTH WIDTH HEIGHT WEIGHT

APPROX.

LBS.

SHIPPING OPERATING

LBS.



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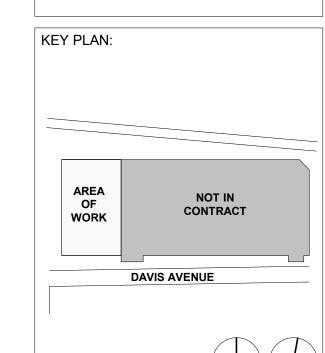
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HACKENSACK MERIDIAN

CENTRAL UTILITY
PLANT EXPANSION

1945 NJ-33 NEPTUNE CITY, NJ 07753

PROJECT NO: 150-24-003_400

		T
REV	DATE	DESCRIPTION
1	01-27-2025	SD SUBMISSION

PHASE: SD DATE: 01/24/25

DRAWING TITLE

MECHANICAL EQUIPMENT

SCHEDULES

CHECKED BY: RG-TMDRAWN BY: CC

DRAWING No.

M300

DWG. NO. OI