

HEAT RECOVERY CENTRIFUGAL CHILLER																										
HNH-JERSEY SHORE UNIV MEDICAL CENTER																										
WATER-COOLED																										
Header Data				Cooling/Heating Performance		Evaporator Data						Condenser Data						ELECTRICAL REQUIREMENTS				Chiller Weight		Refrigerant		AHRI
Model	Tags	Chiller Quantity	Starter Type	Capacity Cool [tons.R] / Heat [MBH]	Full Load Efficiency [kW/tons.R]	Entering Fluid Temperature [°F]	Leaving Fluid Temperature [°F]	Flow Rate [USGPM]	Fouling Factor [h ft2 F/Btu]	Fluid Type	Pressure Drop [ft H2O]	Entering Fluid Temperature [°F]	Leaving Fluid Temperature [°F]	Flow Rate [USGPM]	Fouling Factor [h ft2 F/Btu]	Fluid Type	Pressure Drop [ft H2O]	Total Input Power [kW]	FLA [A]	LRA [A]	MCA [A]	Shipping Weight [lbs]	Operating Weight [lbs]	Type	Quantity Per Unit [lbs]	AHRI Certification
CYKP8QD-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: 1
Notes: For individual unit rating version, see the unit performance report.																										
AHRI Notes:																										
1. Custom Unit which is not certified in accordance with AHRI Water-Cooled Water Chilling and Heat Pump Water-Heating Packages Using Vapor Compression Cycle Certification Program, but is rated in accordance with AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI). Auxiliary components included in total kW - Chiller controls.																										

REMARKS:	
1.	ASME CERTIFIED
2.	SHELL: STEEL
3.	VENT HEAD: BRASS
4.	FLOAT: NON-FERROUS
5.	SEAL: VITON
6.	O-RING: VITON
7.	SKIM VALVE: BRASS
8.	COALESING MEDIUM: COPPER
9.	BALL VALVE: BRASS
10.	MAX. WORKING PRESSURE: 150 PSIG
11.	MAX. OPERATING TEMPERATURE: 270°F
12.	REMOVABLE LOWER PORTION TO FACILITATE CLEANING IF REQUIRED
	MAGNETS: NEODIMUM

REMARKS:	
1.	EQUALIZER CONNECTION, BOTTOM, 14", ASA
2.	LOUVER ACCESS DOOR
3.	MOTOR DAVIT WITH BASE
4.	WATER SILENCERS
5.	FAN MOTOR: SPACE HEATERS (QTY. 2)
6.	S-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)
14.	SUPER LOW SOUND FAN
15.	FACTORY MUTUAL APPROVED

CONDENSER WATER FILTRATION						
Mfg. / Model (Basis-of-Design)			Ameriwater / 330 LP			
Standard Pressure (Copper Piping)			Maximum Pump Inlet Pressure (110PSI)			
Filtration Rating			0.5 Micron		0.25 Micron**	
Backwash Flow Rate (GPM)			45		35	
Backwash Total Gallons (5 Min. Duration)			675		525	
Pump (HP / Voltage / Amps / Ph / RPM) (Copper Only)			7.5 / 460V / 9.4 / 3 / 3450			
			7.5 / 208V / 19.8 / 3 / 3450			
Valve Size			1 & 2		2.0"	
			3 & 4		1.5"	
			Filter In/Out		6.0"	
Recommended Piping Size			City Backwash Inlet		2.0"	
			Backwash to Drain		2.0"	
Vessel Construction / Diameter			304L Stainless Steel / 30"			
Recommended Space			12" D x 6" W x 8" H			
Shipping / Operating Weight			1000 lbs.			
Piping	A	B	C	D	E	F
Copper	137 1/4"	27 1/2"	26"	64 3/16"	35 1/4"	82 1/4"
Piping	G	H	I	J	K	L
Copper	82 1/4"	8 1/6"	3 1/2"	33"	56 1/16"	56 1/16"

NOTES:

1. COOLING TOWER FILTERS INCLUDE OPTIONAL TOWER WATER BACKWASH

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

Commercial Pumps																	
TAG	MODEL NUMBER	PUMP TYPE	PUMP SIZE	DUTY POINT HEAD	FLOW RATE	TDH	DUTY POINT EFFICIENCY	P/LEV 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	268	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	268	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

EXPANSION TANKS								
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