1. PROVIDE BACNET CONTROLS INTERFACE TO CONNECT TO BUILDING CONTROLS SYSTEM. EQUALS: RBI Infinite Energy 2-1000, RBI FLEXCORE CK!000, SUBJECT TO DIMENSIONS AND CLEARANCES.

	1		'	"			'	'		'	•	CHILLE	R WATER (COOLED S	CHEDULE	•	•				7	·	·	'	'	·	·
MARK			COOL	ING CAPA	ACITY				COMPRE	SOR		E	VAPORATO	OR			CON	NDENSER	(ELECT	RICAL		DIMENSION	S	DESIGN	WEIGHT	
										REFRIGERA	N SYSTEM	RATED															
	MAKE	MODEL	(Btu/h)	(kW)	(tons)	EER	SEER IP	V TYPE	QT	T TYPE	FLOW	FLOW	EWT	LWT	WPD	FLOW	EWT	LWT	WPD(VOLTAGE	PHASE	E HEIGHT (ir	n) LENGTH (in)	WIDTH (in)	(kg)	(lbs)	NOTES
CH	1 AERMEC	WWM 0500	374400	110	31.2	16.19	20	3 SCROL	L 2	R-410A	59 GPM	75 GPM	55 °F	45 °F	2.94 psi	66 GPM	95 °F	85 °F	6.49 psi	600 V	₹3	4' - 3"	4' - 4 1/2"	3' - 9 1/2"	1078	2377	1, 2, 3, 4
CH	1 AERMEC	WWM 0500	374440	110	31.2	16.19	20	3 SCROL	L 2	R-410A	59 GPM	75 GPM	55 °F	45 °F	2.94 psi	66 GPM	95 °F	85 °F	6.49 psi	600 V	₹3	4' - 3"	4' - 4 1/2"	3' - 9 1/2"	1078	2377	1, 2, 3, 4
CH	1 AERMEC	WWM 0500	374400	110	31.2	16.19	20	3 SCROL	L 2	R-410A	59 GPM	75 GPM	55 °F	45 °F	2.94 psi	66 GPM	95 °F	85 °F	6.49 psi	600 V	3	4' - 3"	4' - 4 1/2"	3' - 9 1/2"	1078	2377	1, 2, 3, 4

1. CHILLER MODULES TO BE SUPPLIED TOGETHER AS COMPLETE PACKAGE WITH SINGLE HEADER.
2. PROVIDE BACNET CONTROLS INTERFACE TO CONNECT TO BUILDING CONTROLS SYSTEM.

3. CONDENSOR FLUID IS 55% PROPYLENE GLYOCL.

4. WEIGHT OF REFRIGERANT CHARGE IS 12.35LBS/12.15LBS FOR CIRCUITS C1/C2 RESPECTIVELY.
EQUALS: TRANE CICD, TRANE CGWR, CLIMACOOL UCW030, CARRIER 03MPW, SUBJECT TO DIMENSIONS AND CLEARANCES, PRESSURE DROP MUST MATCH SPECIFIED.

										HEAT	EXCHANG	SER SCHE	DULE - WA	TERWATER											
MARK			CAPA	CITY			S	OURCE										LOAD							
						FL	OW PRESSURE DROP ENTERING TEMP LEAVING TEMP MAXIMUM WEIGHT FLOW PRESSURE DROP ENTERING TEMP LEAVING TEMP MAXIMUM WEIGHT																		
	MAKE	TYPE	(Btu/h)	(kW)	FLUID	(GPM)	(L/s)	(ftH2O)	(kPa)	(°F)	(°C)	(°F)	(°C)	FLUID	(GPM)	(L/s)	(ftH2O)	(kPa)	(°F)	(°C)	(°F)	(°C)	(lbs)	(kg)	NOTES
HX 1	ARMSTRONG	PLATE & FRAME	1200000	351.7	HEATING WATER	80	5.05	7.0	20.92	160	71	130	54	35% PG	91	5.74	7.0	20.92	125	52	155	68	2000	907	
HX 2	ARMSTRONG	PLATE & FRAME	1000000	293.1	CH. WATER 55% PG	198	12.49	7.0	20.92	35	2	45	7	CHILLED WATER	178	11.23	7.0	20.92	52	11	45	7	2000	907	
HY 3	ARMSTRONG	DI ATE & EDAME	1000000	203.1	HEATING WATER	66	1 16	7.0	20.02	160	71	130	5/	DOMESTIC HOT WATER - POTABLE	25	1.58	7.0	20.02	40	1	1/10	60	2000	907	1

1. HEAT EXCHANGER SHALL BE DOUBLE WALLED STAINLESS STEEL FOR USE IN POTABLE APPLICATION.

EQUALS: WILO, SEC HEAT EXCHANGERS.

						PUMP SCHEDUL	E							
MAF	RK					OUTLET				ELECTRI	ICAL	DESIGN	WEIGHT	
		MAKE	MODEL	PUMP TYPE	INLET DIAMETER	DIAMETER	FLOW	HEAD	MOTOR	VOLTAGE	PHASE	(lbs)	(Kg)	NOTES
Р	1	ARMSTRONG	DESIGN ENVELOPE 4380	CLOSE COUPLED VERTICAL IN LINE	2 1/2"	2 1/2"	280 GPM	34 FT	2.00 hp	575 V	3	250	113	1, 2
Р	2	ARMSTRONG	DESIGN ENVELOPE 4380	CLOSE COUPLED VERTICAL IN LINE	2 1/2"	2 1/2"	280 GPM	34 FT	2.00 hp	575 V	3	250	113	1, 2
Р	3	Bell & Gossett	ecocirc XL 55-45	IN LINE CIRCULATOR	1 1/2"	1 1/2"	7 GPM	51 FT	1.00 hp	208 V	1	26	12	2
Р	4	Bell & Gossett	ecocirc XL 55-45	IN LINE CIRCULATOR	1 1/2"	1 1/2"	7 GPM	51 FT	1.00 hp	208 V	1	26	12	2
Р	5	Bell & Gossett	ecocirc XL 95-160	IN LINE CIRCULATOR	1 1/2"	2 1/2"	91 GPM	44 FT	2.00 hp	208 V	3	40	18	1, 2
Р	6	Bell & Gossett	ecocirc XL 95-160	IN LINE CIRCULATOR	1 1/2"	2 1/2"	91 GPM	44 FT	2.00 hp	208 V	3	40	18	1, 2
Р	7	ARMSTRONG	DESIGN ENVELOPE 4380	CLOSE COUPLED VERTICAL IN LINE	1 1/2"	1 1/2"	178 GPM	77 FT	5.00 hp	575 V	3	300	136	1, 2
Р	8	ARMSTRONG	DESIGN ENVELOPE 4380	CLOSE COUPLED VERTICAL IN LINE	1 1/2"	1 1/2"	178 GPM	77 FT	5.00 hp	575 V	3	300	136	1, 2
Р	9	ARMSTRONG	DESIGN ENVELOPE 4380	CLOSE COUPLED VERTICAL IN LINE	2"	2"	198 GPM	55 FT	5.00 hp	575 V	3	300	136	1, 2
Р	10	ARMSTRONG	DESIGN ENVELOPE 4380	CLOSE COUPLED VERTICAL IN LINE	2"	2"	198 GPM	55 FT	5.00 hp	575 V	3	300	136	1, 2
Р	11	Bell & Gossett	ecocirc XL 36-45	IN LINE CIRCULATOR	1 1/2"	1 1/2"	20 GPM	11 FT	1.00 hp	208 V	1	20	9	2
Р	12	Bell & Gossett	ecocirc XL 36-45	IN LINE CIRCULATOR	1 1/2"	1 1/2"	14 GPM	11 FT	1.00 hp	208 V	1	20	9	2
Р	13	Bell & Gossett	ecocirc XL 20-35	IN LINE CIRCULATOR	1 1/2"	1 1/2"	3 GPM	11 FT	1.00 hp	208 V	1	20	9	2
Р	15	Bell & Gossett	ecocirc XL 36-45	IN LINE CIRCULATOR	1 1/2"	1 1/2"	17 GPM	24 FT	1.00 hp	208 V	1	20	9	2
Р	16	ARMSTRONG	DESIGN ENVELOPE 4380	CLOSE COUPLED VERTICAL IN LINE	2"	2"	135 GPM	82 FT	5.00 hp	575 V	3	300	136	1, 2
Р	17	ARMSTRONG	DESIGN ENVELOPE 4380	CLOSE COUPLED VERTICAL IN LINE	2"	2"	135 GPM	82 FT	5.00 hp	575 V	3	300	136	1, 2
Р	18	Bell & Gossett	ecocirc XL 55-45	IN LINE CIRCULATOR	1 1/2"	1 1/2"	25 GPM	29 FT	1.00 hp	208 V	1	26	12	2
Р	19	Bell & Gossett	ecocirc XL 65-130	IN LINE CIRCULATOR	1 1/2"	1 1/2"	60 GPM	33 FT	1.00 hp	208 V	1	40	18	2
Р	20	Bell & Gossett	ecocirc XL 65-130	IN LINE CIRCULATOR	1 1/2"	1 1/2"	66 GPM	37 FT	1.00 hp	208 V	1	40	18	2
Р	21	Bell & Gossett	ecocirc XL 55-45	IN LINE CIRCULATOR	1 1/2"	1 1/2"	25 GPM	33 FT	1.00 hp	208 V	1	26	12	2

1. PROVIDE AS ARMSTRONG BUILDING ENVELOPE PUMP PAIRS FOR PARALLEL OPERATION.
2. PROVIDE WITH CONTROLS TO INTERFACE WITH BACNET BUILDING CONTROLS.

			AIR & AIR SE	EDIMENT	SEPARAT	OR SCHEDULE			
MARK			FL	OW	ALLOWABLE PRESSURE DROP	CONNEC	TION		
	MAKE	MODEL	SERVES	(gpm)	(L/s)	(ft)	(in)	(mm)	NOTES
AS ^	Spirotherm	VDN 400 FL	HWS 7	170	11	1	0' - 4"	102	
AS	Spirotherm	VDN 300 FL	GHS 3	95	6	1	0' - 3"	76	
AS (3	Spirotherm	VDN 400 FL	CWR 2	170	11	1	0' - 4"	102	

EQUALS: WILO, CALEFFI NA546

				HYDRAULIC SEPAR	RATOR SC	HEDULE				
	MARK				FLO	OW	ALLOWABLE PRESSURE DROP	CONNEC ⁻	TION	
		MAKE	MODEL	SERVES	(gpm)	(L/s)	(ft)	(in)	(mm)	NOTES
Ī	HS 1 Spirotherm VDX 400 FA		VDX 400 FA	HWS 7,HWS 6,HWS 7,HWS 4	55	3	1	0' - 4"	102	
$\neg \{$	HS 2 Spirotherm VDX 400 FA HWR 2,HWR 5,HWS 7,HWS 3					12	1	0' - 4"	102	

EQUALS: WILO, CALEFFI NA549

						EXP	ANSION TANK SC	HEDULE							
MA	RK				SYSTEM	VOLUME	TANK V	OLUME	ACCEPTAN	CE VOLUME	FIELD (CHARGE	DESIGN	WEIGHT	
		MAKE	MODEL	TYPE	(GAL.)	(Litres)	(GAL.)	(Litres)	(GAL.)	(Litres)	(psi)	(kPa)	(kg)	(lbs)	NOTES
ET	1A	AMTROL	EXTROL 50LBC	PARTIAL ACCEPTANCE BLADDER	660.0	2498.4	13.0	49.2	11.1	42.0	50.00	344.74	160	353	HEATING WATER
ET	1B	AMTROL	EXTROL 50LBC	PARTIAL ACCEPTANCE BLADDER	660.0	2498.4	13.0	49.2	11.1	42.0	50.00	344.74	160	353	HEATING WATER
ET	2	AMTROL	EXTROL 35LBC	PARTIAL ACCEPTANCE BLADDER	150.0	567.8	10.0	37.9	10.0	37.9	50.00	344.74	150	331	35% PG
ET	3A	AMTROL	EXTROL 35LBC	PARTIAL ACCEPTANCE BLADDER	150.0	567.8	10.0	37.9	10.0	37.9	50.00	344.74	150	331	CHILLED WATER
ET	3B	AMTROL	EXTROL 35LBC	PARTIAL ACCEPTANCE BLADDER	150.0	567.8	10.0	37.9	10.0	37.9	50.00	344.74	150	331	CHILLED WATER
ET	4 /	AMTROL	EXTROL 35LBC	PARTIAL ACCEPTANCE BLADDER	100.0	378.5	10.0	37.9	10.0	37.9	50.00	344.74	150	331	55% PG
ET	5	AMTROL	EXTROL 35LBC	PARTIAL ACCEPTANCE BLADDER	65.0	246.1	10.0	37.9	10.0	37.9	60.00	413.69	73	161	HEATING WATER

EQUALS: WILO

				BUFFER TA	NK SCHEDULE					
MARK					MAXIMUN	/ WEIGHT	MAX	IMUM DIMENS	SIONS	
	MAKE	MODEL	TANK VOLUME	FLUID TYPE	(lbs)	(kg)	HEIGHT	LENGTH	WIDTH	NOTES
	1 AMTROL	CWBT300-6-125	300 gal	CHILLED WATER	772	350	0' - 3"	0' - 1 1/2"	0' - 1 1/2"	1
BF	2 AMTROL	CWBT300-6-125	300 gal	CHILLED WATER	772	350	0' - 3"	0' - 1 1/2"	0' - 1 1/2"	1

EQUALS: LAARS BTVNB36072XF5XXX

<u> </u>	2	<u></u>	

					(GLYCOL FILL STATI	ION SCHEDULE						
MARK					STORAGE	CAPACITY	MAXIMUM	PRESSURE	ELECTE	RICAL	MAXIMUN	/ WEIGHT	
		MAKE	MODEL	SYSTEM SERVED	(GAL.)	(Litres)	(psi)	(kPa)	VOLTAGE	PHASE	(lbs)	(kg)	NOTES
GFS	1	Axiom	SF-100-L	GLYCOL HEATING	100.0	378.5	55.00	379.21	120 V	1	900	408	35% PG
GFS	2	Axiom	SF-100	FLUID COOLER	55.0	208.2	55.00	379.21	120 V	1	500	227	55% PG

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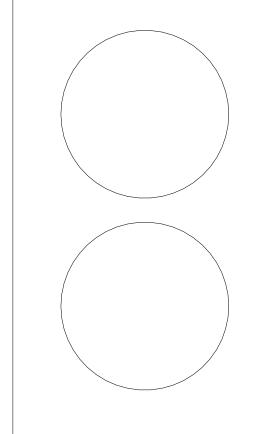
Rev. No. Date Revision Notes

0 19-11-06 Issued for Construction 2 19-12-13 Issued with ADD2ME

3 19-12-20 Issued with ADD3ME



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Project

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HYDRONIC SCHEDULES

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