

MAKE-UP AIR UNIT											
DESIGNATION	NEPTRONIC MODEL NUMBER	MAXIMUM AIRFLOW (CFM)	SERVICE / LOCATION	STATIC PRESSURE (IN. WG)	ELECTRICAL			OPERATING WEIGHT (LBS)	OVERALL DIMENSIONS (LxWxH) (INCHES)	COLLAR SIZE (INCHES)	NOTES
					VOLTAGE/ PHASE	POWER RATING (kW)	AMP RATING				
MUA-A	CMU-12-1-160-A	750	UNITS A	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	120	1
MUA-B	CMU-12-1-160-A	750	UNITS B	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	120	1
MUA-C	CMU-12-1-160-A	750	UNITS C	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	120	1
MUA-D	CMU-12-1-160-A	750	UNITS D	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	120	1
MUA-E	CMU-12-1-160-A	750	UNITS E	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	120	1
MUA-F	CMU-12-1-160-A	750	UNITS F	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	120	1
MUA-G	CMU-12-1-160-A	750	UNITS G	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	120	1
MUA-H	CMU-12-1-160-A	750	UNITS H	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	120	1
MUA-I	CMU-12-1-160-A	750	UNITS I	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	120	1
MUA-J	CMU-12-1-160-A	750	UNITS J	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	120	1
MUA-K	CMU-12-1-160-A	750	UNITS K	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	120	1
MUA-L	CMU-12-1-160-A	750	UNITS L	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	120	1
MUA-M	CMU-12-1-160-A	750	UNITS M	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	120	1
MUA-N	CMU-12-1-160-A	750	UNITS N	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	120	1
MUA-O	CMU-12-1-160-A	750	UNITS O	0.05	208/3	16	33.33	85	28.8 x 19.3 x 13.8	120	1
MUA-P	CMU-06-1-015-A	150	UNITS P	0.05	208/3	1.5	3.125	50	23 x 13.3 x 7.6	60	
MUA-Q	CMU-06-1-015-A	150	UNITS Q	0.05	208/3	1.5	3.125	50	23 x 13.3 x 7.6	60	
NOTES: 1. UNIT TO NORMALLY OPERATE AT 200 CFM. INTERLOCK WITH RANGE HOOD AND INCREASE TO 750 CFM WHEN RANGE HOOD TURNED ON.											

PUMPS															
DESIGNATION	LOCATION/ SERVICE	GRUNDFOS MODEL NUMBER	TYPE	GPM	HEAD (FT H2O)	MINIMUM EFFICIENCY (PERCENT)	CASING PRESSURE (PSIG)	RPM	MOTOR			EMERG. POWER (V/N)	VAR. SPEED (Y/N)	OPER. WEIGHT (LBS)	NOTES
									BRAKE HP	NON- OVERLOADING HP	VOLTAGE/ PHASE				
PCHWP-A-B-1	PRIMARY CHILLED WATER	NBS-020-110-4P	END SUCTION	165	95	74	175	1750	9.85	10	480/3	N	Y	307	1
PCHWP-A-B-2	PRIMARY CHILLED WATER	NBS-020-110-4P	END SUCTION	165	95	74	175	1750	9.85	10	480/3	N	Y	307	1
PHWP-A-B-1	PRIMARY HOT WATER PUMP	NBS-015-095-4P	END SUCTION	150	85	73	175	1750	6.54	5	480/3	N	Y	307	1
PHWP-A-B-2	PRIMARY HOT WATER PUMP	NBS-015-095-4P	END SUCTION	150	85	73	175	1750	6.54	5	480/3	N	Y	307	1
SCHWP-A-B-1	SECONDARY CHILLED WATER	NBS-015-095-4P	END SUCTION	150	75	74	175	1750	6.54	5	480/3	N	Y	307	
SCHWP-A-B-2	SECONDARY CHILLED WATER	NBS-015-095-4P	END SUCTION	150	75	73	175	1750	6.54	5	480/3	N	Y	307	
SHWP-A-B-1	SECONDARY HOT WATER	NBS-015-095-4P	END SUCTION	180	70	75	175	1750	13.99	5	480/3	N	Y	351	
SHWP-A-B-2	SECONDARY HOT WATER	NBS-015-095-4P	END SUCTION	180	70	75	175	1750	13.99	5	480/3	N	Y	351	
BP-A-B-1	BOILER 1	TP63 - 50-200	INLINE	134	35	68.9	175	3450	1.50	2	480/3	N	ECM	116	
BP-A-B-2	BOILER 2	TP63 - 50-200	INLINE	134	35	68.9	175	3450	1.50	2	480/3	N	ECM	116	
BP-A-B-3	BOILER 3	TP63 - 50-200	INLINE	134	35	68.9	175	3450	1.50	2	480/3	N	ECM	116	
PCHWP-B-P1-1	PRIMARY CHILLED WATER	NBS-020-110-4P	END SUCTION	165	95	74	175	1750	9.85	10	480/3	N	Y	307	1
PCHWP-B-P1-2	PRIMARY CHILLED WATER	NBS-020-110-4P	END SUCTION	165	95	74	175	3450	9.85	10	480/3	N	Y	307	1
PHWP-B-P1-1	PRIMARY HOT WATER PUMP	NBS-015-095-4P	END SUCTION	150	85	74	175	1750	6.54	5	480/3	N	Y	307	1
PHWP-B-P1-2	PRIMARY HOT WATER PUMP	NBS-015-095-4P	END SUCTION	150	85	74	175	1750	6.54	5	480/3	N	Y	307	1
SCHWP-B-P1-1	SECONDARY CHILLED WATER	NBS-015-095-4P	END SUCTION	150	75	74	175	1750	6.54	5	480/3	N	Y	665	
SCHWP-B-P1-2	SECONDARY CHILLED WATER	NBS-015-095-4P	END SUCTION	150	75	74	175	1750	6.54	5	480/3	N	Y	665	
SHWP-B-P1-1	SECONDARY HOT WATER	NBS-015-095-4P	END SUCTION	180	70	74	175	1750	18.47	5	480/3	N	Y	489	
SHWP-B-P1-2	SECONDARY HOT WATER	NBS-015-095-4P	END SUCTION	180	70	74	175	1750	18.47	5	480/3	N	Y	489	
BP-B-P1-1	BOILER 1	TP63-50-200	INLINE	134	35	68.9	175	3450	1.50	2	480/3	N	ECM	116	
BP-B-P1-2	BOILER 2	TP63-50-200	INLINE	134	35	68.9	175	3450	1.50	2	480/3	N	ECM	116	
BP-B-P1-3	BOILER 3	TP63-50-200	INLINE	134	35	68.9	175	3450	1.50	2	480/3	N	ECM	116	
SMBP-B-P1-1	SNOWMELT	NBS-030-070-2P	END SUCTION	480	160	76	175	1750	28.97	40	480/3	N	Y	307	1
SMBP-B-P1-2	SNOWMELT	NBS-030-070-2P	END SUCTION	480	160	76	175	3450	28.97	40	480/3	N	Y	307	1
SMBP-B-P1-3	SNOWMELT	NBS-030-070-2P	END SUCTION	480	160	76	175	3450	28.97	40	480/3	N	Y	307	1
PCHWP-C-1-1	PRIMARY CHILLED WATER	NBS-015-095-4P	END SUCTION	130	95	74	175	1750	6.54	7	480/3	N	Y	322	1
PCHWP-C-1-2	PRIMARY CHILLED WATER	NBS-015-095-4P	END SUCTION	130	95	74	175	1750	6.54	7	480/3	N	Y	322	1
PHWP-C-1-1	PRIMARY HOT WATER PUMP	NBS-015-095-4P	END SUCTION	120	85	74	175	3450	8.82	5	480/3	N	Y	322	1
PHWP-C-1-2	PRIMARY HOT WATER PUMP	NBS-015-095-4P	END SUCTION	120	85	74	175	3450	8.82	5	480/3	N	Y	322	1
SCHWP-C-1-1	SECONDARY CHILLED WATER	NBS-015-095-4P	END SUCTION	120	75	74	175	3450	8.82	5	480/3	N	Y	322	
SCHWP-C-1-2	SECONDARY CHILLED WATER	NBS-015-095-4P	END SUCTION	120	75	74	175	3450	8.82	5	480/3	N	Y	322	
SHWP-C-1-1	SECONDARY HOT WATER	NBS-015-095-4P	END SUCTION	180	70	74	175	3450	8.82	5	480/3	N	Y	322	
SHWP-C-1-2	SECONDARY HOT WATER	NBS-015-095-4P	END SUCTION	180	70	74	175	3450	8.82	5	480/3	N	Y	322	
BP-C-1-1	BOILER 1	TP63-50-200	INLINE	134	35	68.9	175	3450	1.50	2	480/3	N	ECM	116	
BP-C-1-2	BOILER 2	TP63-50-200	INLINE	134	35	68.9	175	3450	1.50	2	480/3	N	ECM	116	
BP-C-1-3	BOILER 3	TP63-50-200	INLINE	134	35	68.9	175	3450	1.50	2	480/3	N	ECM	116	

GENERAL NOTES:
A. SITE ELEVATION: 7,000 FT

NOTES:
1. SYSTEM DESIGNED WITH 40% PROPYLENE GLYCOL.

HOT WATER BOILER																		
DESIGNATION	LOCATION	SERVICE	MANUF. MODEL NUMBER	TYPE	FUEL	INPUT (MBH)	OUTPUT (MBH)	GPM	EWT (F)	LWT (F)	PRESS DROP (FT H2O)	PRESS RATING (PSIG)	FLUE SIZE (INCHES)	ELECTRICAL			EMERGENCY POWER (Y/N)	NOTES
														FLA	MCA	VOLTAGE/ PHASE		
B-A-B-1	TOWER-A LEVEL B	TOWER-A HEATING	NTI FTG 1200	CONDENSING	GAS	1200	1153	134	100	120	8.3	160	8	NA	NA	120/1	N	
B-A-B-2	TOWER-A LEVEL B	TOWER-A HEATING	NTI FTG 1200	CONDENSING	GAS	1200	1153	134	100	120	8.3	160	8	NA	NA	120/1	N	
B-A-B-3	TOWER-A LEVEL B	TOWER-A HEATING	NTI FTG 1200	CONDENSING	GAS	1200	1153	134	100	120	8.3	160	8	NA	NA	120/1	N	1
B-B-P1-1	TOWER-B LEVEL P1	TOWER-B HEATING	NTI FTG 1200	CONDENSING	GAS	1200	1153	134	100	120	8.3	160	8	NA	NA	120/1	N	
B-B-P1-2	TOWER-B LEVEL P1	TOWER-B HEATING	NTI FTG 1200	CONDENSING	GAS	1200	1153	134	100	120	8.3	160	8	NA	NA	120/1	N	
B-B-P1-3	TOWER-B LEVEL P1	TOWER-B HEATING	NTI FTG 1200	CONDENSING	GAS	1200	1153	134	100	120	8.3	160	8	NA	NA	120/1	N	1
B-B-P1-4	TOWER-B LEVEL P1	SNOWMELT	NTI FTG 2400	CONDENSING	GAS	2400	2237	192	100	120	NA	160	8	NA	NA	120/1	N	
B-B-P1-5	TOWER-B LEVEL P1	SNOWMELT	NTI FTG 2400	CONDENSING	GAS	2400	2237	192	100	120	NA	160	8	NA	NA	120/1	N	
B-B-P1-6	TOWER-B LEVEL P1	SNOWMELT	NTI FTG 2400	CONDENSING	GAS	2400	2237	192	100	120	NA	160	8	NA	NA	120/1	N	
B-B-P1-7	TOWER-B LEVEL P1	SNOWMELT	NTI FTG 2400	CONDENSING	GAS	2400	2237	192	100	120	NA	160	8	NA	NA	120/1	N	
B-B-P1-8	TOWER-B LEVEL P1	SNOWMELT	NTI FTG 2400	CONDENSING	GAS	2400	2237	192	100	120	NA	160	8	NA	NA	120/1	N	
B-B-P1-9	TOWER-B LEVEL P1	SNOWMELT	NTI FTG 2400	CONDENSING	GAS	2400	2237	192	100	120	NA	160	8	NA	NA	120/1	N	
B-C-1-1	TOWER-C LEVEL 1	TOWER-C HEATING	NTI FTG 1200	CONDENSING	GAS	1200	1153	134	100	120	8.3	160	8	NA	NA	120/1	N	
B-C-1-2	TOWER-C LEVEL 1	TOWER-C HEATING	NTI FTG 1200	CONDENSING	GAS	1200	1153	134	100	120	8.3	160	8	NA	NA	120/1	N	
B-C-1-3	TOWER-C LEVEL 1	TOWER-C HEATING	NTI FTG 1200	CONDENSING	GAS	1200	1153	134	100	120	8.3	160	8	NA	NA	120/1	N	1
GENERAL NOTES: A. ALL EQUIPMENT TO BE SELECTED AT 7,000 FT ELEVATION.																		
NOTES: 1. REDUNDANT UNIT.																		

GENERAL NOTES:
A. ALL EQUIPMENT TO BE SELECTED AT 7,000 FT ELEVATION.

NOTES:
1. REDUNDANT UNIT.

FANS																										
DESIGNATION	LOCATION/ SERVICE	COOK MODEL NUMBER	TYPE	CFM	STATIC PRESSURE (IN. WG.)	RPM	BHP	MOTOR		EMERG POWER (Y/N)	VAR SPEED (Y/N)	OPERATING WEIGHT (LBS)	SOUND DATA (dBA)										NOTES			
								HP	VOLTAGE/ PHASE				63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	TOTAL					
GEF-A-P2-1	TOWER-A P2 / GARAGE EX	EWD 30EW620D11	WALL PROP	2600	1.00	1140	1.3	1 1/2	4603	Y	Y	175	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	78	2	
GEF-A-P2-2	TOWER-A P2 / GARAGE EX	EWD 30EW620D11	WALL PROP	2600	1.00	1140	1.3	1 1/2	4603	Y	Y	175	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	78	2	
GEF-A-P2-3	TOWER-A P2 / GARAGE EX	EWD 30EW620D11	WALL PROP	2600	1.00	1140	1.3	1 1/2	4603	Y	Y	175	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	78	2	
GTF-A-P2-01	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	4603	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.4	
GTF-A-P2-02	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	4603	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.4	
GTF-A-P2-03	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	4603	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.4	
GTF-A-P2-04	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	4603	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.4	
GTF-A-P2-05	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	4603	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.4	
GTF-A-P2-06	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	4603	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.4	
GTF-A-P2-07	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 35JM	INLINE TRANSFER	2310	0.30	1770	0.4	1	4603	Y	N	185	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.4	
GTF-A-P2-08	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 35JM	INLINE TRANSFER	2310	0.30	1770	0.4	1	4603	Y	Y	185	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.4	
GTF-A-P2-09	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	4603	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.4	
GTF-A-P2-10	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	4603	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.4	
GTF-A-P2-11	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	4603	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.4	
GTF-A-P2-12	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	4603	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.4	
GTF-A-P2-13	TOWER-A P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770	0.2	1	4603	Y	N	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.4	
GTF-B-P2-01	TOWER-B P2 / GARAGE X-FER FAN	HOWDEN 40FM	INLINE TRANSFER	2965	0.30	1770	0.5	1	4603	Y	Y	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.4	
GTF-B-P2-02	TOWER-B P2 / GARAGE X-FER FAN	HOWDEN 40FM	INLINE TRANSFER	2965	0.30	1770	0.5	1	4603	Y	Y	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.4	
GTF-B-P2-03	TOWER-B P2 / GARAGE X-FER FAN	HOWDEN 31JM	INLINE TRANSFER	1485	0.20	1770																				

GENERAL NOTES:

1. ALL EQUIPMENT TO BE SELECTED AT 7,000 FT ELEVATION.

NOTES:

1. PANASONIC FAN SELECTED

2. SEE GARAGE EXHAUST FAN SPEED SCHEDULE ON THIS SHEET AND SPEC 23 09 63 FOR FAN SPEEDS AT VARIOUS OPERATING CONDITIONS.

3. PROVIDE THE FOLLOWING ACCESSORIES: INLET BELL, SCREEN FOR MOUNTING TO INLET BELL, SWITCHED DISCONNECT WITH NEMA-3R, OUTLET FLOW, UNL-705 CERTIFICATION

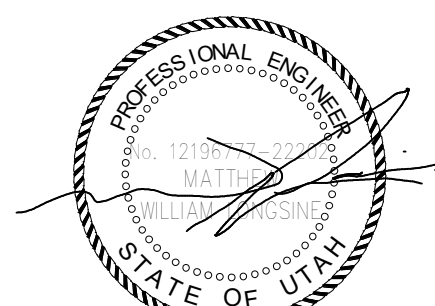
4. IF ALTERNATE GARAGE TRANSFER FAN IS SELECTED NEW MANUFACTURER MUST PERFORM C.O. ANALYSIS AT THEIR COST TO DETERMINE FAN FLOW, QUANTITY AND LOCATION.

5. PROVIDE THERMOSTAT CONTROLLED SWITCH, EDP-11 MODULATING PRESSURE CONTROLLER WITH XTP (120V) (PH) AND SMDS MODULATING DAMPER SYSTEM FOR EACH BOLLER OR WATER HEATER.

6. PROVIDE MOTOR DISCONNECT SWITCH, EDVIRE, XTP PRESSURE TRANSDUCER AND OUTDOOR STATIC PRESSURE SENSOR.

7. THE THERMOSTAT SHALL BE CONTROLLED VIA THERMOSTAT SHOWN ON SHEET M2.20.Q2.GI.ET. WHEN THERMOSTAT IS ABOVE 95-F OPERATE FAN UNTIL THERMOSTAT REACHES 85-F

8. SPARK PROOF FAN AND MOTOR.



Reserved for perm

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principal architect _____
project manager _____

checked by _____

date 5/31/2024

revisions:

D 8/23/2024 ASI 003

no.	date	by
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IEC Set 3 of 3

5/31/2024

MECHANICAL

M0.04