

Qty	COMPONENT	LOCATION	MANUFACTURER	MODEL
1	AHU #1	Penthouse Mech. Rm.	McQuay	MSL-111XL
1	AHU #2	Penthouse Mech. Rm.	McQuay	LSL-128XL
1	AHU #3	Penthouse Mech. Rm.	McQuay	LSL-128XL
1	AHU #4	Penthouse Mech. Rm.	McQuay	LSL-128XL
1	AHU #5	Penthouse Mech. Rm.	McQuay	LSL-128XL
1	AHU #6	Penthouse Mech. Rm.	McQuay	LSL-106S
1	AHU #7	Penthouse Mech. Rm.	McQuay	LSL-108S
1	AHU #8	Penthouse Mech. Rm.	McQuay	LSL-106S
1	AHU #9	Penthouse Mech. Rm.	McQuay	LSL-144S
1	AHU #10	Penthouse Mech. Rm.	McQuay	LSL-108S
1	AHU #11	Penthouse Mech. Rm.	McQuay	LSL-108S
1	AHU #12	Penthouse Mech. Rm.	McQuay	LSL-108S
1	AHU #13	Penthouse Mech. Rm.	McQuay	LSL-108S
1	AHU #14	Penthouse Mech. Rm.	McQuay	LSL-114S
1	AHU #15	Penthouse Mech. Rm.	McQuay	LSL-114S
1	AHU #16	Penthouse Mech. Rm.	YORK	AP120
1	Elect. Heat for AHU #16 (460/3/60)	Penthouse Mech. Rm.	EDH Metal Indus.	9031703
1	AHU #17	Penthouse Mech. Rm.	YORK	AP105
1	Elect. Heat for AHU #17 (460/3/60)	Penthouse Mech. Rm.	EDH Metal Indus.	9031703
1	AHU #18	Mezzanine Mech. Rm.	McQuay	LSL-103XL
1	AHU #19	Mezzanine Mech. Rm.	McQuay	LSL-122XL
1	AHU #20	Mezzanine Mech. Rm.	McQuay	LSL-128XL
1	AHU #21	Mezzanine Mech. Rm.	McQuay	LSL-117XL
1	AHU #22	Mezzanine Mech. Rm.	McQuay	LSL-111S
1	AHU #23	Mezzanine Mech. Rm.	McQuay	LSL-114S

1	AHU #24	Mezzanine Mech. Rm.	McQuay	LSL-117S
1	AHU #25	Mezzanine Mech. Rm.	McQuay	LSL-117S
1	AHU #26	Mezzanine Mech. Rm.	McQuay	LSL-117S
1	AHU #27	Computer Rm.	Liebert	CF91C
1	AHU #28	Computer Rm.	Liebert	BU067A-ASM
1	Condenser Complete	Exterior	Liebert	CSF083LZ
3	Centrifugal Chiller	Penthouse Mech.Rm.	Trane	CVHE 032
1	Emergency Chiller	Penthouse Mech.Rm.	McQuay	WHR-020 C1
1	Steam Boiler	Penthouse Mech.Rm.	Coates	24-SC1
1	Steam Boiler w/condensate return	Penthouse Mech.Rm.	Coates	16-CR
2	Open Return Pump	Penthouse Mech. Rm.	Grundfos 1/2HP	RS15-80
2	Hot Water Boiler	Penthouse Mech. Rm.	Coates	24HW1
1	Primary HW Pump #10	Penthouse Mech.Rm.	Baldor 10HP	VM-33131
1	Primary HW Pump #11	Penthouse Mech.Rm.	Baldor 10HP	VM-33131
1	Secondary HW Pump #13	Penthouse Mech.Rm.	Century Eplus 5HP	FR-S-184 TC
1	Secondary HW Pump #15	Penthouse Mech.Rm.	Century Eplus 20HP	FR-S-184-TC
2	Condensate Return Pump	Penthouse Mech. Rm.	GE	1/2HP
1	Condensate Return Pump	Penthouse Mech. Rm.	Marathon	½HP
1	Condensate Return Pump	Penthouse Mech. Rm.	Dayton	½HP
2	Cooling Tower Complete	Penthouse Mech.Rm.	Baltimore Serial #'s	15425 V037160701 & 02
1	CW Pump #1	Penthouse Mech.Rm.	Baldor 10HP	JMM33137
1	CW Pump #2	Penthouse Mech.Rm.	Baldor 10HP	JMM33137
1	CW Pump #4	Penthouse Mech.Rm.	Baldor 7.5HP	JMM33117
1	CW Pump #5	Penthouse Mech.Rm.	Baldor 7.5HP	JMM33117
1	CW Pump #7	Penthouse Mech. Rm.	US Motors 10HP	2L6
1	CW Pump #8	Penthouse Mech. Rm.	US Motors 10HP	2L6
1	Cond. Water Pump #17	Penthouse Mech. Rm.	Baldor 20HP	4L4

1	Cond. Water Pump #18	Penthouse Mech. Rm.	Baldor 20HP	4L4
1	Emer. Cond. Pump #20	Penthouse Mech. Rm.	Baldor	3HP
1	Emer. CW Pump #21	Penthouse Mech. Rm.	Baldor	5HP
2	Cooling Tower Complete	Penthouse Roof	BAC	15425
1	Wall Fan #1	Penthouse Mech. Rm.	American Coolair	1 hp CBQ36L
1	Wall Fan #2	Penthouse Mech. Rm.	American Coolair	1 hp CBQ36L
1	Wall Fan #3	Penthouse Mech. Rm.	American Coolair	1 hp CBQ36L
1	Exhaust Fan #4	Penthouse Mech. Rm.	Jenn Air	¾ hp 254NBCR
1	Exhaust Fan #5	Penthouse Mech. Rm.	Jenn Air	1/6 hp121 NBCR
1	Exhaust Fan #6	Penthouse Mech. Rm.	Jenn Air	1/6 hp 121 NBCR
1	Exhaust Fan #7	Penthouse Mech. Rm.	Jenn Air	¼ hp 122 NBCR
1	Exhaust Fan #8	Penthouse Mech. Rm.	Jenn Air	1/3 hp 153 NBCR
1	Exhaust Fan #9	Penthouse Mech. Rm.	Jenn Air	1/12 hp 12 BCR
1	Exhaust Fan #10	Penthouse Mech. Rm.	Jenn Air	½ hp 154 NBCR
1	Exhaust Fan #11	Penthouse Mech. Rm.	Jenn Air	1 hp 255 NBCR
1	Exhaust Fan #12	Penthouse Mech. Rm.	Jenn Air	1/16 hp 121 NBCR
1	Exhaust Fan #13	Penthouse Mech. Rm.	Jenn Air	1 hp 186 BTR
1	Exhaust Fan #14	Penthouse Mech. Rm.	Jenn Air	1/6 hp 111 CR
1	Exhaust Fan #15	Penthouse Mech. Rm.	Jenn Air	1/25 hp 71 CR
1	Exhaust Fan #16	Penthouse Mech. Rm.	Jenn Air	1/6 hp 121 NBCR
1	Exhaust Fan #17	Penthouse Mech. Rm.	Jenn Air	1/3 hp 193 NBCR
1	Exhaust Fan #18	Penthouse Mech. Rm.	Jenn Air	¾ hp 125 ILB
1	Exhaust Fan #19	Penthouse Mech. Rm.	Jenn Air	1 hp 147 BTB
1	Diesel Generator Set	Penthouse Mech. Rm.	Caterpillar	3406B
1	Vacuum Pump	Mezzanine Mech. Rm.	AIRCO.	34738D
1	Air Compressor	Mezzanine Mech. Rm.	AIRCO	37368D
1	HW Circulating Pump	Mezzanine Mech. Rm.	Grundfos	A8228

1	Electric Boiler	Mezzanine Mech. Rm.	Glashield	18G125AE
1	Hot Water Heater	Conservatory. Lab	Ruudglas	RP20PH1
6	Water Fountains Complete w/Cooler	Floors 1 & 2	Elkay	
1	Diesel Fuel Pump Motor & Gauge	1 st Floor	Lesson	C6T1DB1B
3	Vertical Ceiling Steam/Hot Water Heater	Penthouse Mech. Rm.	Modine	V-279
26	Variable Frequency Drive	Penthouse; Mezzanine; 4 th Roof	ABB	BCR-15
1	Transfer switch	Penthouse Mech. Rm.	GE	Zenith ZTS

NOTE: Seven pump motors (in working condition) are in stock on the Penthouse Mech. Room and are the property of the Archives.

- 1- Century 7.5HP
- 2- Century 5.0HP
- 3- Century 20.0HP
- 4- Century 20.0HP
- 5- Baldor 7.5HP
- 6- Baldor 7.5HP
- 7- Baldor 10.0HP

VII. Replacement Filters

Please refer to the Schedule Filter List for the type, approximate size and exact number for the fresh air intakes on the HVAC Units.

A. Pre-Filters

Filters shall be Purafil (or exact) catalog #PP-30, 2” thick, pleated 30% to 35% ASHRAE efficient. Refer to the schedules for the quantities and approximate sizes of the required filters. No piece of air handling equipment shall be run without having at least a primary air filter in place. Pre-filters shall be replaced no less than three times per year and/or as needed or as requested by the Agency.

In service: (119) - 24” x 24” x 2”
(65) - 12” x 24” x 2”

B. Dry Type Bag Filters

Filters shall be Purafil (or exact) catalog #BF-40, 12” deep, dry bag type, 40% ASHRAE efficient (or exact), with galvanized frame and header. Refer to the schedules for the quantities and approximate sizes of the required filters. Dry type bag filters shall be replaced no less than two times per year and/or as needed or as requested by the Agency.

In service: (65) - 24" x 24" x 12", with 5 pockets
(47) - 12" x 24" x 12", with 3 pockets

C. Final Filters

Filters shall be Purafil (or exact) catalog #PP-40, 4" thick, pleated, 40% ASHRAE Efficient. Refer to the schedules for the quantities and approximate sizes of the required filters. Final filters shall be replaced no less than two times per year and/or as needed or as requested by the Agency.

In service: (54) - 24" x 24" x 4"
(18) - 12" x 24" x 4"

D. Odor and Gas Removal Filters

Odor Oxidant Media

*It is the responsibility of the Contractor to contact the Purafil (or exact) manufacturer to determine the cost prior to submitting bid.

Odor Oxidant Media shall be factory filled prepackaged disposable containers of "Purafil (PM-18-P) (or exact); see: *Media type - Media Specification, chemisorbing media.

Complete replacement of the 7,560 lb. media.

Media type - Media Specification

Pellets shall be manufactured, porous pellets formed from a combination of activated alumina and other binders, suitably impregnated with potassium permanganate to provide optimum adsorption, absorption and oxidation of a wide variety of gaseous contaminants. The potassium permanganate shall be applied during pellet formation, such that the impregnant is uniformly distributed throughout the pellet volume and is totally available for reaction. The media shall have a minimum of 40% of its differential pore volume in the pore diameter range of 1-5m (microns) as determined by mercury porosimetry.

Removal Capacity

Adsorbent Media shall meet the following removal capacities:

- *Hydrogen Sulfide: 14% minimum by weight*
- *Sulfur Dioxide: 7.0% minimum by weight*
- *Nitric Oxide: 4.9% minimum by weight*
- *Potassium Permanganate Content: 8% Min. – High Capacity*

*Absorbent media shall be lab tested within 30 days of acceptance of contract. A sample shall be taken from each air-handling unit, numbered to corresponding unit, and sent to Purafil (or exact) certified media lab to be tested at Contractor's expense to determine the level of contamination and remaining, if any, life expectancy. Media at or below 30% life expectancy shall be ordered without delay by Contractor and replaced without delay at Contractor's expense. Thereafter, media shall be sampled by Contractor every 4 months and lab tested. All lab results shall be authenticated and sent directly from the lab via email to the Agency. During year three and/or final year (whichever comes first) of the contract, Contractor shall take final samples no later than February 28 to be sent for testing. Absorbent media with 30% or less life expectancy shall be replaced at the cost to the Contractor prior to June 30.