

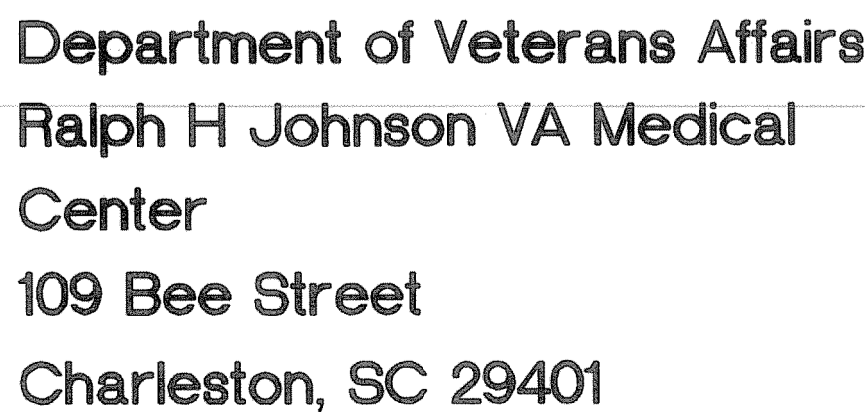
UNIT NUMBER	LOCATION AND AREAS SERVED	PANEL SIZE (IN.)	HEATING CAPACITY (BTUH)	EW'T (F°)	LWT (F°)	MINIMUM FLOW (GPM)	PRESSURE DROP MAX (FT.)	NOTES
1-RP1	RESTROOMS	8x36	530/LF	180	160	0.5	2	ALL

NOTES:

- NEW RADIANT CEILING PANELS SHALL BE INSTALLED WITH FACTORY-PROVIDED FRAME. COORDINATE INSTALLATION WITH ARCHITECTURAL FINISHES.
- BASIS OF DESIGN: AIRTITE, MODEL AR-X DUAL-PASS EXTRUDED CEILING PANEL. ACCEPTABLE ALTERNATES: STERLING OR ZEHNDER RITTLING.

MARK	INLET SIZE	MAXIMUM SUPPLY AIR FLOW, CFM	MINIMUM SUPPLY AIR FLOW, CFM	REHEAT COIL		MAX WPD, FT H2O	MAX APD	NOTES
				MINIMUM HEATING CAPACITY, BTUH	FLOW RATE, GPM			
V-01	60	305	185	7,992	0.8	1.0	0.5	ALL
V-02	80	450	450	19,440	2.0	3.0	0.5	ALL
V-03	80	440	190	8,208	0.9	3.0	0.5	ALL
V-04	80	410	205	8,856	0.9	3.0	0.5	ALL
V-05	80	665	625	27,000	2.7	3.0	0.5	ALL
V-06	60	305	185	7,992	0.8	1.0	0.5	ALL
V-07	60	310	190	8,208	0.9	1.0	0.5	ALL
V-08	60	310	190	8,208	0.9	1.0	0.5	ALL
V-09	60	320	205	8,856	0.9	1.0	0.5	ALL
V-10	40	150	120	5,184	0.6	1.0	0.5	ALL
V-11	80	460	460	19,872	2.0	3.0	0.5	ALL
V-12	40	130	130	5,616	0.6	1.0	0.5	ALL
V-13	40	105	85	3,672	0.5	1.0	0.5	ALL
V-14	60	185	155	6,696	0.7	1.0	0.5	ALL
V-15	60	180	150	6,480	0.7	1.0	0.5	ALL
V-16	60	205	150	6,480	0.7	1.0	0.5	ALL
V-17	60	220	220	9,504	1.0	1.0	0.5	ALL
V-18	80	580	580	25,056	2.6	3.0	0.5	ALL
V-19	80	605	225	9,720	1.0	3.0	0.5	ALL
V-20	60	385	320	13,824	1.4	1.0	0.5	ALL
V-21	60	240	240	10,368	1.1	1.0	0.5	ALL
V-22	60	280	165	7,128	0.8	1.0	0.5	ALL
V-23	60	230	145	6,264	0.7	1.0	0.5	ALL
V-24	60	155	65	2,808	0.5	1.0	0.5	ALL
V-25	60	155	65	2,808	0.5	1.0	0.5	ALL
V-26	80	435	435	18,792	1.9	3.0	0.5	ALL
V-27	60	350	205	8,856	0.9	1.0	0.5	ALL
V-28	60	325	185	7,992	0.8	1.0	0.5	ALL
V-29	100	690	635	27,432	2.8	3.0	0.5	ALL
V-30	60	305	180	7,776	0.8	1.0	0.5	ALL
V-31	60	285	180	7,776	0.8	1.0	0.5	ALL
V-32	60	290	185	7,992	0.8	1.0	0.5	ALL
V-33	80	615	390	16,848	1.7	3.0	0.5	ALL
V-34	80	550	510	22,032	2.3	3.0	0.5	ALL
V-35	60	300	185	7,992	0.8	1.0	0.5	ALL

- [illegible]



HARRELL
• DESIGN GROUP, PC •

formerly HARRELL, SALTRICK & HOPPER, PC

8016 TOWER POINT DRIVE P 704.814.1322
CHARLOTTE, NC 28227 F 704.321.0833
WWW.HARRELLDG.COM
COPYRIGHT © 2014 HARRELL DESIGN GROUP, PLLC
HDDG PROJECT # 13026

[illegible]

MARK	TYPE	CFM	MIN. SIZE W x H (IN.)	TYPE	PREFILTER MAX. APD (IN WG)	HEPA FILTER MAX. APD (IN WG)	PRE FILTER REQUIRED	NOTES
1-HEPA1	BAG-IN BAG-OUT	485	24 x 24	BIO/HAZARD	0.5	1.0	YES	ALL
1-HEPA2	BAG-IN BAG-OUT	570	24 x 24	BIO/HAZARD	0.5	1.0	YES	ALL
1-HEPA3	BAG-IN BAG-OUT	520	24 x 24	BIO/HAZARD	0.5	1.0	YES	ALL
1-HEPA4	BAG-IN BAG-OUT	335	24 x 24	BIO/HAZARD	0.5	1.0	YES	ALL
1-HEPA5	BAG-IN BAG-OUT	510	24 x 24	BIO/HAZARD	0.5	1.0	YES	ALL
1-HEPA5A	BAG-IN BAG-OUT	570	24 x 24	BIO/HAZARD	0.5	1.0	YES	ALL

NOTES

1. PROVIDE FILTER HOUSING WITH MANUFACTURERS TEST PORTS, TRANSITIONS, ISOLATION DAMPERS, AND PRESSURE GAGES.
2. PROVIDE DEVICES PER DETAIL (C8/M502)
3. BASIS OF DESIGN IS FLANDERS. ACCEPTABLE ALTERNATES: AMERICAN AIR FILTER OR CAMFIL.
4. SUPPORT FILTER HOUSING AS REQUIRED.

MARK	ROOM(S) SERVED	SIZE, IN x IN	CFM	MINIMUM HEATING CAPACITY, BTUH	FLOW RATE, GPM	MAX WPD, FT H2O	MAX APD	HW COIL ROWS
1-HWC1	A226/A226A	10x10	485	20,952	2.1	1.0	0.25"	2
1-HWC2	A225	10x10	495	21,384	2.2	1.0	0.25"	2
1-HWC3	A219/A219A	14x8	520	22,464	2.3	1.0	0.25"	2
1-HWC4	A220	10x8	290	12,528	1.3	1.0	0.25"	2
1-HWC5	A213	12x10	440	19,008	2.0	1.0	0.25"	2

NOTES:

1. HEATING COIL CAPACITIES BASED ON 55°F EAT, 180°F EWT.
2. MAXIMUM FACE VELOCITY SHALL BE 900 FPM.
3. MAXIMUM NC AT 1" S.P. = 35. IN ACCORDANCE WITH AIR STANDARD 880-98.
4. PROVIDE HOT WATER HEATING COILS WITH MINIMUM NUMBER OF ROWS REQUIRED TO PROVIDE GPM LISTED ON PLANS WITHOUT EXCEEDING MAXIMUM WATER PRESSURE DROP OR MAXIMUM AIR PRESSURE DROP INDICATED ON SCHEDULE.
5. BASIS OF DESIGN: USA COIL. ACCEPTABLE ALTERNATES: COIL COMPANY OR MULTITHERM.

FCU NO.	LOCATION/SERVICE	UNIT SIZE	FAN CFM	AIRSIDE PRESSURE DROP (IN. WG)	COOLING CAPACITY				HEATING CAPACITY				ELECTRICAL			TYPE
					NO. OF ROWS	MAX COIL PRESSURE DROP (FT)	MIN TOTAL MBH	GPM	NO. OF ROWS	MAX COIL PRESSURE DROP (FT)	MIN TOTAL MBH	GPM	FLA	VOLT	PHASE	
1-FCU1	ELEC. A245	4	390	0.2	4	0.4	14.8	1.5	N/A	N/A	N/A	N/A	1.5	120	1	HORIZONTAL EXPOSED
1-FCU2	I.T. A247	4	390	0.2	4	0.4	14.8	1.5	N/A	N/A	N/A	N/A	1.5	120	1	HORIZONTAL EXPOSED
1-FCU3	BIOMED A212A	4	390	0.2	4	0.4	14.8	1.5	N/A	N/A	N/A	N/A	1.5	120	1	DUCTED, SEE PLANS
1-FCU4	ELEC A287A	4	390	0.2	4	0.4	14.8	1.5	N/A	N/A	N/A	N/A	1.5	120	1	HORIZONTAL EXPOSED
1-FCU5	I.T. A289	4	390	0.2	4	0.4	14.8	1.5	N/A	N/A	N/A	N/A	1.5	120	1	DUCTED, SEE PLANS

NOTES

- FAN CFM AND COOLING CAPACITIES ARE BASED ON OPERATION AT "MEDIUM" FAN SPEED.
- CHILLED WATER ENTERING TEMPERATURE = 46°F; LEAVING WATER TEMPERATURE = 56°F
- HOT WATER ENTERING TEMPERATURE = 180°F; LEAVING WATER TEMPERATURE = 160°F.
- PROVIDE SECONDARY CONDENSATE DRAIN PAN UNDER UNIT WITH FLOAT SWITCH TO SHUT-OFF FAN AND CONTROL VALVE.
- PROVIDE WITH THERMAL OVERLOAD PROTECTION, DISCONNECT SWITCH AND FINAL CONNECTIONS BY DIVISION 26.
- BASIS OF DESIGN IS HALLOR ACCEPTABLE ALTERNATES: TITUS OR METALEAIRE.
- RELOCATED FAN COIL UNIT FROM ROOM A245.

MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	CFM	TSP (IN)	NOISE CRITERIA (dBA)	FAN					ELECTRICAL							NOTES
							TYPE	WHEEL	CLASS	DRIVE	MAX RPM	BHP	HP	PHASE	VOLT	RPM	SPEED CONTROL	EMERG. POWER	
1-EF1	ROOF	SICU #6 ISOLATION ROOM, A226	VENTILATION	485	2.5	84	UTILITY SET	BACKWARD INCLINED	1	BELT	4,230	0.66	3/4	3	460	3,180	NO	YES	1-7
1-EF2	ROOF	SICU #7 ISOLATION ROOM, A225	VENTILATION	570	2.5	86	UTILITY SET	BACKWARD INCLINED	1	BELT	4,230	0.81	1	3	460	3,417	NO	YES	1-7
1-EF3	ROOF	MICU #5 ISOLATION ROOM, A220	VENTILATION	520	2.5	85	UTILITY SET	BACKWARD INCLINED	1	BELT	4,230	0.72	3/4	3	460	3,276	NO	YES	1-7
1-EF4	ROOF	MICU #4 ISOLATION ROOM, A219	VENTILATION	335	2.5	80	UTILITY SET	BACKWARD INCLINED	1	BELT	4,230	0.47	3/4	3	460	2,787	NO	YES	1-7
1-EF5	ROOF	STEP DOWN #1 ISOLATION ROOM, A213	VENTILATION	510	2.6	85	UTILITY SET	BACKWARD INCLINED	1	BELT	4,230	0.72	3/4	3	460	3,285	NO	YES	1-7
1-EF5A	ROOF	ISOLATION ROOMS (STANDBY)	VENTILATION	570	2.5	86	UTILITY SET	BACKWARD INCLINED	1	BELT	4,230	0.81	1	3	460	3,417	NO	YES	1-8
1-EF6	ROOF	GENERAL EXHAUST	VENTILATION	1,000	1.0	77	UTILITY SET	BACKWARD INCLINED	1	BELT	4,230	0.49	3/4	3	460	2,549	NO	NO	1-7
1-EF7	ROOF	FIRST FLOOR EXISTING KH-1	EXHAUST	735	0.85	56	UPBLAST CENTRIFUGAL	BACKWARD INCLINED	1	DIRECT	1,140	0.22	1/4	1	120	1,140	NO	NO	1-5, 9
NOTES 1. ALL SELECTIONS ARE BASED ON AN ALTITUDE OF 49 FEET. 2. PROVIDE MOTOR GUARD, MOTORIZED BACKDRAFT DAMPER. 3. PROVIDE WITH THERMAL OVERLOAD PROTECTION. 4. PROVIDE VIBRATION ISOLATORS. 5. BASIS OF DESIGN IS COOK. ACCEPTABLE ALTERNATES: GREENHECK OR PENN. 6. STARTER/DISCONNECT SWITCH AND FINAL CONNECTIONS BY DIVISION 26. 7. FAN SHALL RUN CONTINUOUSLY. 8. STANDBY. 9. DISCONNECT SWITCH AND FINAL CONNECTIONS BY DIVISION 26.																			

DEVICE LETTER	DEVICE TYPE	MANUFACTURER AND MODEL NUMBER	FRAME NUMBER	FRAME SIZE	NECK LETTER	NECK SIZE
A	ARCH. DIFFUSER	NAILOR UNI-RC	1	12x12	A	6"ø
B	BAR GRILLES	NAILOR SERIES 49	2	24x24	B	8"ø
C	CEILING REGISTER	NAILOR 61 DV	3	24x12	C	10"ø
D	DRUM LOUVER	NAILOR 45 DL	4	NECK + FRAME	D	12"ø
E	EGGCRATE	NAILOR 61 EC	5	36x4	E	14"ø
F	FILTER GRILLE	NAILOR 61 FP	6	48x4	F	16"ø
G	SIDEWALL GRILLE	NAILOR 6155 H	7	48x12	G	22x22
H	FIRE RATED	NAILOR	8	132x4	H	NECK SIZE
J	CURVED GRILLE	61DVC				
K	PLENUM DIFFUSER	NAILOR				
L	LAMINAR FLOW	NAILOR 92LFD-SS				
M	LINEAR SLOT	NAILOR 5010/5010R				
N	LINEAR SLOT	NAILOR 48LL2				
P	ARCH. RETURN/EXH.	NAILOR 5010R CTD				
Q	PERFORATED FACE	NAILOR 4325/4360				
R	ROUND	NAILOR				
S	SECURITY GRILLES	NAILOR				
T	SIDEWALL REGISTER	NAILOR 61 DV				



DEVICE LETTER

FRAME NUMBER

NECK LETTER

CFM

AIR DISTRIBUTION LEGEND KEY

NOTES

- SUPPLY, EXHAUST, AND RETURN DIFFUSERS FOR PATIENT AND SUPPORT SPACES (I.E. EVERYWHERE BUT IN UTILITY ROOMS AND RESTROOMS) SHALL BE PROVIDED WITH RETAINING CLIP OPTION FOR AFFIXING CEILING GRID TO CENTER OF DEVICE.
- MAXIMUM AIR VELOCITY THROUGH DIFFUSERS, GRILLES AND REGISTERS SHALL BE 500 FPM, UNLESS INDICATED OTHERWISE.
- MAXIMUM NOISE LEVEL SHALL BE 50.
- PROVIDE FRAMES SUITABLE FOR TYPE OF INSTALLATION REQUIRED, VERIFY WITH FINAL APPROVED ARCHITECTURAL CEILING PLAN.
- BASIS OF DESIGN IS NAILOR. ACCEPTABLE ALTERNATES: TITUS OR METALAIR.
- PROVIDE SQUARE TO ROUND TRANSITION WITH APPROPRIATE NECK SIZE, AS REQUIRED.
- FINISH SHALL BE OFF-WHITE UNLESS NOTED OTHERWISE.
- SEE PLANS FOR NECK SIZES OF REGISTERS AND GRILLES, ETC.
- INSULATE BACK PANEL OF ALL SUPPLY DIFFUSERS. INSULATION TYPE SHALL MATCH INSULATION USED ON SUPPLY DUCTWORK.
- DEVICES LOCATED IN TOILET(S) SHALL BE CONSTRUCTED OF ALUMINUM.

1
TYPE
HORIZONTAL EXPOSED
HORIZONTAL EXPOSED
DUCTED, SEE PLANS
HORIZONTAL EXPOSED
DUCTED, SEE PLANS