VARIABLE AIR VOLUME BOX SCHEDULE

BOX No.	PRIMARY AIR CFM MAX	PRIMARY AIR CFM MIN	BOX IN SIZE(5)	BOX TYPE (1)	ELECTRIC HEATING HEATING CFM	KW	STEPS	VOLTS	PH.	REMARKS
1-1	100	0	4	SD	–	–	–	–	–	
1-2	1150	575	10	SDEH	605	7.5	3	480	3ø	
1-3	1100	550	10	SDEH	550	7	3	480	3ø	
1-4	400	200	6	SDEH	210	2.5	1	480	3ø	
1-5	1100	550	10	SDEH	550	7	3	480	3ø	
1-6	1000	500	10	SDEH	500	6.5	3	480	3ø	
1-7	600	300	6	SDEH	300	4	2	480	3ø	
1-8	1000	500	10	SDEH	500	6.5	2	480	3ø	
1-9	1950	975	12	SDEH	1000	13	5	480	3ø	
1-10	1000	500	10	SDEH	500	6.5	3	480	3ø	
1-11	800	400	10	SDEH	410	5.5	2	480	3ø	
1-12	400	200	8	SDEH	210	3	1	480	3ø	
1-13	1000	500	10	SDEH	500	6.5	3	480	3ø	
1-14	875	440	10	SDEH	450	6	2	480	3ø	
1-15	550	275	8	SDEH	275	3.5	2	277	1ø	
1-16	300	150	5	SDEH	185	2	1	277	1ø	
1-17	250	125	5	SDEH	185	2	1	277	1ø	
1-18	300	150	5	SDEH	185	2	1	277	1ø	
1-19	300	0	5	SD	–	–	–	–	–	
2-1	350	175	6	SDEH	180	2	1	277	1ø	
2-2	1790	895	12	SDEH	940	12	4	480	3ø	
2-3	990	495	10	SDEH	495	6.5	3	480	3ø	
2-4	260	130	5	SDEH	185	2	1	480	3ø	
2-5	2460	1230	14	SDEH	1230	16	6	480	3ø	
2-6	1000	500	10	SDEH	500	6.5	3	480	3ø	
2-7	370	185	6	SDEH	210	2.5	1	480	3ø	
2-8	700	350	8	SDEH	350	4.5	2	480	3ø	
2-9	2000	1000	12	SDEH	1000	13	5	480	3ø	
2-10	200	0	4	SD	–	–	–	–	–	
2-11	840	420	8	SDEH	420	5.5	2	480	3ø	
2-12	800	400	8	SDEH	420	5.5	2	480	3ø	
2-13	500	250	6	SDEH	250	3	1	277	1ø	
2-14	450	225	6	SDEH	240	3	1	480	3ø	
2-15	800	400	8	SDEH	420	5.5	2	480	3ø	
2-16	840	420	8	SDEH	420	5.5	2	480	3ø	
2-17	1900	950	12	SDEH	950	12	4	480	3ø	
2-18	170	80	4	SDEH	130	1	1	277	1ø	
2-19	325	115	5	SDEH	165	1.5	1	277	1ø	
2-20	200	100	5	SDEH	165	1.5	1	277	1ø	
2-21	200	100	5	SDEH	165	1.5	1	277	1ø	
2-22	400	0	6	SD	–	–	–	–	–	
2-23	200	100	5	SDEH	165	1.5	1	277	1ø	
2-24	225	110	5	SDEH	165	1.5	1	277	1ø	
2-25	700	350	8	SDEH	350	4.5	2	480	3ø	
2-26	600	300	8	SDEH	315	4	2	480	3ø	
2-27	200	100	5	SDEH	165	1.5	1	277	1ø	
2-28	375	190	6	SDEH	210	2.5	1	480	3ø	
2-29	700	350	8	SDEH	350	4.5	2	480	3ø	
2-30	640	320	8	SDEH	345	4.5	2	480	3ø	
2-31	850	425	8	SDEH	425	5.5	2	480	3ø	
2-32	850	425	8	SDEH	425	5.5	2	480	3ø	
2-33	250	125	5	SDEH	185	2	1	277	1ø	
2-34	300	0	8	SD	–	–	–	–	–	
3-1	150	80	4	SDEH	130	1	1	277	1ø	
3-2	800	400	8	SDEH	420	5.5	2	480	3ø	
3-3	250	125	5	SDEH	185	2	1	480	3ø	
3-4	1650	825	12	SDEH	860	11	4	480	3ø	
3-5	720	360	8	SDEH	360	5	2	480	3ø	
4-1	1450	725	12	SDEH	785	10	4	480	3ø	
4-2	1450	725	12	SDEH	785	10	4	480	3ø	
4-3	300	150	5	SDEH	185	2	1	480	3ø	
4-4	125	0	5	SDEH	125	1	1	277	1ø	
5-1	450	225	6	SDEH	240	3	1	480	3ø	
5-2	450	225	6	SDEH	240	3	1	480	3ø	
5-3	250	125	5	SDEH	185	2	1	480	3ø	
5-4	300	150	5	SDEH	185	2	1	480	3ø	
5-5	300	150	5	SDEH	185	2	1	480	3ø	
5-6	250	125	5	SDEH	185	2	1	480	3ø	
5-7	450	225	6	SDEH	225	3.0	1	480	3ø	
6-1	550	225	8	SDEH	225	3	1	480	3ø	
6-2	1265	400	10	SDEH	660	8	3	480	3ø	⚠1
6-3	500	250	8	SDEH	250	3	1	480	3ø	
6-4	185	100	4	SDEH	130	1	1	277	1ø	

(1) BOX TYPE SD – SINGLE DUCT VAV (COOLING ONLY). TRANE MODEL VCCF. REFER TO SPECIFICATIONS.
SDEH – SINGLE DUCT VAV WITH ELECTRIC HEAT. TRANE MODEL VCEF. REFER TO SPECIFICATIONS.

(2) MAXIMUM ROOM NC @ 0.5 DELTA PS ACROSS BOX @ MAX CFM BASED ON 10db ROOM ABSORPTION WITH REFERENCE TO 10–12 WATTS RADIATED SOND & 5' LONG, 10" DIAMETER, INSULATED DISCHARGE DUCT.

INLET DIA.	DISCHARGE	RADIATED
6"	40	20
7"	40	24
8"	40	26
9"	41	26
10"	42	26
12"	41	27
14"	41	27

(3) MAXIMUM S.P. AVAILABLE @ BOX INLET 0.5 IN W.C. MAXIMUM S.P. DROP ACROSS ANY OF THE ABOVE VAV BOX ASSEMBLES SHALL NOT EXCEED .25in. W.C. @ 2000 FPM INLET VELOCITY

(4) HEATING COILS ARE TO BE AT AIR DISCHARGE OUTLET OF VAV BOXES.

(5) UNLESS OTHERWISE NOTED BRANCH DUCT CONNECTION TO BOX SHALL BE ONE SIZE LARGER THAN BOX INLET.

AIR INLET/OUTLET SCHEDULE

SYMBOL	INLET SIZE	DIFFUSER SIZE	CFM RANGE	FINISH	MOUNTING	REMARKS
SUPPLY DIFFUSERS/GRILLES						
A	6" ø	15" X 15"	0–150	WHITE	CEILING	TITUS TDC–AA [1]
B	8" ø	15" X 15"	151–250	WHITE	CEILING	TITUS TDC–AA [1]
C	10" ø	15" X 15"	251–350	WHITE	CEILING	TITUS TDC–AA [1]
D	12" ø	15" X 15"	351–450	WHITE	CEILING	TITUS TDC–AA [1]
E	12" ø	15" X 15"	451–650	WHITE	CEILING	TITUS TDC–AA [1]
F	12" X 6"	12" X 6"	0–200	WHITE	SIDEWALL	TITUS 272FS [1], [2]
G	14" X 6"	14" X 6"	201–300	WHITE	SIDEWALL	TITUS 272FS [1], [2]
H	18" X 6"	18" X 6"	301–400	WHITE	SIDEWALL	TITUS 272FS [1], [2]
I	24" X 6"	24" X 6"	401–500	WHITE	SIDEWALL	TITUS 272FS [1], [2]
J	30" X 6"	30" X 6"	501–600	WHITE	SIDEWALL	TITUS 272FS [1], [2]
K	30" X 12"	30" X 12"	0–1100	WHITE	SIDEWALL	TITUS 272FS [1], [2]
L	36" X 12"	36" X 12"	0–1200	WHITE	DUCT	TITUS S300FS [1], [2]

EXHAUST AND RETURN GRILLES

SYMBOL	SIZE	CFM RANGE	FINISH	MOUNTING	REMARKS
N	12" x 12"	0–250	WHITE	CEILING	TITUS 355RS [1], [3]
O	12" x 24"	0–500	WHITE	CEILING	TITUS 355RS [1], [3]
P	18" x 18"	0–600	WHITE	CEILING	TITUS 355RS [1], [3]
Q	18" x 24"	0–800	WHITE	WALL	TITUS 355RS [1], [3]
R	20" x 20"	0–500	WHITE	WALL	TITUS 355RS [1], [3]
S	24" x 24"	0–1200	WHITE	WALL/ CEILING	TITUS 355RS [1], [3]
T	48" x 24"	0–3000	WHITE	WALL	TITUS 63F [1], [3]

[1] PROVIDE ALL MATERIAL TYPES, MOUNTING TYPES, AND HARDWARE OF SPECIFIED MODELS. REFER TO ARCHITECTURAL DETAILS. SUBSTITUTIONS WILL NOT BE ALLOWED EXCEPT BY PRIOR APPROVAL. INCOMPLETE PRIOR APPROVAL SUBMITTALS WILL NOT BE CONSIDERED. REFER TO SPECIFICATIONS, SCHEDULE SHALL TAKE PRECEDENCE OVER SPECIFICATIONS WHERE CONFLICTS OCCUR.

[2] INSTALL ALUMINUM OPPOSED BLADE DAMPER FOR ALL SUPPLY GRILLES SHOWN WITHOUT DUCT MOUNTED BALANCING DAMPERS.

[3] INSTALL ALUMINUM OPPOSED BLADE DAMPER FOR ALL RETURN GRILLES SHOWN WITHOUT DUCT MOUNTED BALANCING DAMPERS. INSTALL ALUMINUM PLASTER FRAME FOR ALL CEILING MOUNTED RETURN AND EXHAUST GRILLES.

LOUVER SCHEDULE

UNIT No	SIZE	FREE AREA	STATIC PRESSURE IN WC	CFM	REMARKS
L–1	48" x 24"	3.0	0.04	1500	(1), (7) GREENHECK MODEL ESD–635X
L–2	48" x 24"	3.0	0.04	1500	(1), (7) GREENHECK MODEL ESD–635X
L–3	24" x 24"	1.2	0.04	600	(1), (6) GREENHECK MODEL ESD–635X
L–4	12" x 24"	0.6	0.04	300	(1), (4) GREENHECK MODEL ESD–635X
L–5	60" x 60"	13.9	0.04	6925	(1), (5) GREENHECK MODEL ESD–635X
L–6	42" x 48"	8.0	0.04	4000	(1), (2) GREENHECK MODEL ESD–635X
L–7	42" x 48"	3.0	0.04	1500	(1), (2) GREENHECK MODEL ESD–635X
L–8	42" x 48"	3.0	0.04	1500	(1), (3) GREENHECK MODEL ESD–635X
L–9	60" x 60"	13.0	0.04	6500	(1), (3) GREENHECK MODEL ESD–635X
L–10	24" x 12"	0.4	0.04	200	(1), (8) GREENHECK MODEL ESD–635X
L–11	72" x 108"	43.9	0.03	6300	(9) GREENHECK MODEL ESD–635PD ⚠1

(1) FLORIDA PRODUCT APPROVED DRAINABLE BLADE LOUVER OF HEAVY GAUGE EXTRUDED ALUMINUM CONSTRUCTION. FACTORY PROVIDED ACCESSORIES SHALL INCLUDE: PERIMETER FLANGE, CONTINUOUS PERIMETER INSTALLATION ANGLES, MOTORIZED DAMPER, REMOVABLE FRAMED ALUMINUM INSECT SCREEN AND KYNAR FINISH, COLOR BY ARCHITECT.
(2) INTERLOCK MOTORIZED DAMPER WITH EER–1.
(3) INTERLOCK MOTORIZED DAMPER WITH EER–2.
(4) INTERLOCK MOTORIZED DAMPER WITH BC–4.
(5) INTERLOCK MOTORIZED DAMPER WITH BC–1, BC–2 AND AHU–3.
(6) INTERLOCK MOTORIZED DAMPER WITH BC–5.
(7) INTERLOCK MOTORIZED DAMPER WITH EF–7 AND EF–8.
(8) INTERLOCK MOTORIZED DAMPER WITH EF–2.
(9) FLORIDA PRODUCT APPROVED LOUVERED PENTHOUSE OF HEAVY GAUGE ALUMINUM CONSTRUCTION. FACTORY PROVIDED ACCESSORIES SHALL INCLUDE: 12" HIGH ROOF CURB, MOTORIZED DAMPER, ALUMINUM BIRDSCREEN AND KYNAR FINISH, COLOR BY ARCHITECT. PROVIDE MOTORIZED BAROMETRIC RELIEF DAMPER TO MAINTAIN BUILDING POSITIVE PRESSURE OF 0.05 IN W.G. ⚠1

ADDENDUM 2

ATTACHMENT 40

REVISIONS	BY
⚠1 07-12-2010	JSL

CONTRACTOR MUST VERIFY AND CHECK ALL JOB DIMENSIONS, DETAILS AND SPECIFICATIONS ON SITE AND REPORT ANY ERRORS, OMISSIONS AND DISCREPANCIES BEFORE PROCEEDING

NEW PHOENIX PRE-K THROUGH 12 SCHOOL

MECHANICAL SCHEDULE

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SEAL

DRAWN: ABF
CHECKED: JSL
SCALE:
DATE: 05-24-2010

M3.2

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