

FAN SCHEDULE											
FAN NO.	DUTY	SERVING	MOTOR HP	CFM	S.P.	MAX. RPM	MAX. SPEED	TYPE & DRIVE	CONTROL	ELECT. CHAR.	REMARKS
EF-1	EXHAUST	FITNESS TOILETS	1/4	1050	.75	1330	4550	CENTRIFUGAL/BELT	①	120V/1Ø/60Hz	GREENHECK MODEL GB-121
EF-2	EXHAUST	FITNESS LOCKERS/TOILET	1/2	1800	.75	1030	4480	CENTRIFUGAL/BELT	①	120V/1Ø/60Hz	GREENHECK MODEL GB-161
EF-3	EXHAUST	OFFICIALS' TOILETS	1/4	200	.50	1400	4100	CENTRIFUGAL/BELT	①	120V/1Ø/60Hz	GREENHECK MODEL GB-070
EF-4	EXHAUST	MEN'S/WOMEN'S TOILET	1/4	975	.50	1150	3950	CENTRIFUGAL/BELT	①	120V/1Ø/60Hz	GREENHECK MODEL GB-121
EF-5	EXHAUST	GYM STORAGE ROOM 102	1/4	500	.375	1090	3200	CENTRIFUGAL/BELT	①	120V/1Ø/60Hz	GREENHECK MODEL GB-090
EF-6	EXHAUST	ELECTRICAL ROOM	1/4	500	.375	1090	3200	CENTRIFUGAL/BELT	①	120V/1Ø/60Hz	GREENHECK MODEL GB-090
SAF-1	SUPPLY	MECHANICAL ROOM 103	1/4	700	.25	580	---	CENTRIFUGAL/BELT ①③	④	120V/1Ø/60Hz	GREENHECK MODEL RSF-90
SAF-2	SUPPLY	STORAGE ROOMS	1/4	700	.25	580	---	CENTRIFUGAL/BELT ①	④	120V/1Ø/60Hz	GREENHECK MODEL RSF-90

- NOTES:
- ① FILTERED ROOF MOUNTED SUPPLY FAN HOOD TYPE WITH 2" FILTER, INSTALL WITH DISCONNECT SWITCH.
 - ② UNIT INDICATED IS A BASIS OF DESIGN SELECTION, "OR EQUAL" UNITS PROVIDED SHALL BE SIMILAR.
 - ③ INTERLOCK WITH GAS DETECTOR TO OVERRIDE THERMOSTAT WHEN GAS IS SENSED. FAN SHALL BE ENERGIZED AND WHEN THE LEVEL OF GAS FALLS TO A PREDETERMINED SAFE LEVEL, FAN SHALL THEN BE UNDER CONTROL OF THE THERMOSTAT.
 - ④ SEE MECHANICAL SPECIFICATIONS FOR SEQUENCE OF OPERATION.

DIFFUSER, REGISTER AND GRILLE SCHEDULE												
DESIG.	SERVING	MOUNTING	NOMINAL FACE SIZE INCHES	NECK SIZE INCHES	MATERIAL	LINEAR			PATTERN	CFM RANGE	REMARKS	
						BAR WIDTH IN.	BAR SPACING IN.	DUCT WIDTH IN.				
PS-1	SUPPLY	CEILING	24"x24"	6"	STEEL	---	---	---	①②	0-130	TITUS MODEL PAS	
PS-1	SUPPLY	CEILING	24"x24"	8"	STEEL	---	---	---	①②	131-210	TITUS MODEL PAS	
PS-1	SUPPLY	CEILING	24"x24"	10"	STEEL	---	---	---	①②	211-275	TITUS MODEL PAS	
PS-1	SUPPLY	CEILING	24"x24"	12"	STEEL	---	---	---	①②	276-325	TITUS MODEL PAS	
PS-1	SUPPLY	CEILING	24"x24"	14"	STEEL	---	---	---	①②	326-425	TITUS MODEL PAS	
PS-1	SUPPLY	CEILING	24"x24"	16"	STEEL	---	---	---	①②	426-600	TITUS MODEL PAS	
PS-2	SUPPLY	CEILING	12"x12"	6"	STEEL	---	---	---	①②	0-130	TITUS MODEL PAS	
PR-1	RETURN	CEILING	24"x24"	6"	STEEL	---	---	---	②	0-130	TITUS MODEL PAR	
PR-1	RETURN	CEILING	24"x24"	8"	STEEL	---	---	---	②	131-210	TITUS MODEL PAR	
PR-1	RETURN	CEILING	24"x24"	10"	STEEL	---	---	---	②	211-275	TITUS MODEL PAR	
PR-1	RETURN	CEILING	24"x24"	12"	STEEL	---	---	---	②	276-325	TITUS MODEL PAR	
PR-1	RETURN	CEILING	24"x24"	14"	STEEL	---	---	---	②	326-425	TITUS MODEL PAR	
PR-1	RETURN	CEILING	24"x24"	16"	STEEL	---	---	---	②	426-600	TITUS MODEL PAR	
PR-1	RETURN	CEILING	24"x24"	22"x22"	STEEL	---	---	---	②	601-1400	TITUS MODEL PAR	
PR-2	RETURN	CEILING	48"x24"	46"x22"	STEEL	---	---	---	②	1401-2800	TITUS MODEL PAR	
EA-1	EXHAUST	DUCT	44x20	42x18	STEEL	---	---	---	⑤	1500	TITUS MODEL 23 RL	
EA-2	EXHAUST	CEILING	8x8	6x6	ALUM	---	---	---	⑤	50	TITUS MODEL 3 FL	
EA-3	EXHAUST	CEILING	10x8	8x6	ALUM	---	---	---	⑤	51-100	TITUS MODEL 3 FL	
EA-4	EXHAUST	CEILING	12x12	10x10	ALUM	---	---	---	⑤	0-240	TITUS MODEL 3 FL	
SG-1	SUPPLY	DUCT	43x14	40x12	ALUM	---	---	---	ADJ	0-1400	⑥ DRUM TYPE DIFFUSER, TITUS MODEL DL	
SG-2	SUPPLY	DUCT	22x11	19x8	STEEL	---	---	---	⑥	0-480	ADD ALTERNATE - GYMNASIUM	
SG-3	SUPPLY	CEILING	10x8	8x6	ALUM	---	---	---	⑥	0-120	ADD ALTERNATE - TITUS MODEL 272 RL	
RG-1	RETURN	WALL	36.5x48.5	⑦	STEEL	---	---	---	⑧	0-4200	TITUS MODEL 30 RL (2 REQUIRED)	
RG-2	RETURN	CEILING	12x12	10x10	STEEL	---	---	---	⑧	0-100	TITUS MODEL 23 RL	
RG-3	RETURN	CEILING	24x24	22x22	ALUM	---	---	---	⑧	0-2000	TITUS MODEL 50F, 1/2"x1/2" GRID	
LD-1	SUPPLY	CEILING	---	---	ALUM	1/8"	1/4"	2"	0° DEF	0-35/FT	TITUS MODEL CT 480 ⑩	
TAG-1	TRANSFER	DUCT	24x24	22x22	ALUM	---	---	---	⑨	0-2000	TITUS MODEL 50F, 1/2"x1/2" GRID	
TAG-2	TRANSFER	DUCT	48x24	46x22	ALUM	---	---	---	⑨	0-2000	TITUS MODEL 50F, 1/2"x1/2" GRID	
TAG-3	TRANSFER	CEILING	48x30	46x28	STEEL	---	---	---	⑨	0-2800	TITUS MODEL 53 RS 1/2" BLADE SPACING, 36° DEFLECTION, HEAVY DUTY GRILLE	

- NOTES:
- ① ALL AIR DEVICES LOCATED IN "WET" OR "HUMID" ENVIRONMENTS SHALL BE ALUMINUM. ALL OTHER AIR DEVICES SHALL BE STEEL.
 - ② MAX AIR PRESSURE DROP (APD) 0.1" WG
 - ③ MAX NC 25
 - ④ ALL SUPPLY DIFFUSERS INDICATED SHALL BE AIR QUANTITIES (CFM) AS INDICATED ON PLANS UNLESS NOTED OTHERWISE. REFER TO THIS SCHEDULE FOR DUCT RUNOUT SIZES USING NECK SIZE AND DESIGNATION AS INDICATED.
 - ⑤ ALL AIR DEVICES SHALL BE TITUS OR APPROVED EQUAL.
- SPECIAL NOTES:
- ① 4-WAY DISCHARGE SHALL BE ADJUSTABLE PATTERN, AND SHALL ALSO BE ADJUSTED AS FOLLOWS; CORRIDORS LESS THAN 8 FEET WIDE SHALL BE 2-WAY ARRANGEMENT. OTHERS SHALL BE ADJUSTED TO SUIT ACTUAL CONDITIONS (EXAMPLE: NEAR WALL 3-WAY, IN CORRIDOR 2-WAY, ETC.)
 - ② UNLESS INDICATED OTHERWISE ON PLANS OR HEREIN, ALL SUPPLY AIR DIFFUSERS SHALL BE TYPE "PS-1" (PERFORATED FACE). ALL RETURN AIR DEVICES SHALL BE TYPE "PR-1" (PERFORATED FACE). PR-1 MAY BE PS-1 WITH DEFLECTORS REMOVED.
 - ③ REGISTER WITH 3/4" BLADE SPACING, ADJUSTABLE DOUBLE DEFLECTION WITH EXTRUDED BLADES PARALLEL TO LONG DIMENSION WITH INTEGRAL VOLUME DAMPER.
 - ④ COORDINATE WITH ARCHITECTURAL WORK, FOR MOUNTING.
 - ⑤ GRILLE WITH 3/4" BLADE SPACING, 45° DEFLECTION.
 - ⑥ GRILLE WITH INTEGRAL VOLUME DAMPERS.
 - ⑦ TOTAL NECK SIZE OF TWO GRILLES SIDE BY SIDE 70 1/2"W x 34"H.
 - ⑧ 3/8" BLADE SPACING, 0° DEFLECTION HEAVY BAR TYPE GRILLE.
 - ⑨ 1 1/4" BLADE SPACING, DOUBLE DEFLECTION, HIGH CAPACITY MODULAR TYPE GRILLE WITH INTEGRAL MANUAL VOLUME DAMPER. TITUS MODEL FR-2 (2 MODULES).
 - ⑩ CONTINUOUS LINEAR SLOT, 24 FEET ALONG EAST WALL AND 22 FEET ALONG THE NORTH WALL WITH 1 FOOT AT EACH END AND EACH SIDE OF THE MITER JOINT BLANKED OFF. PROVIDE ALL SPLICES, ENDS, ETC. FOR A COMPLETE AND PROFESSIONAL INSTALLATION. PROVIDE A 12" HIGH INTERNALLY LINED PLENUM TO MATCH THE GRILLE WIDTH AND LENGTH. COORDINATE EXACT LOCATION AND MOUNTING BORDER WITH ARCHITECT. COLOR AND FINISH MUST BE SELECTED AND APPROVED BY THE ARCHITECT.
 - ⑪ COLOR SHALL BE COORDINATED WITH AND APPROVED BY ARCHITECT.

V.A.V. BOX SCHEDULE WITH ELECTRIC REHEAT													
DESIG.	NECK SIZE IN DIA	MAXIMUM CFM	MINIMUM CFM	MIN INLET SP IN WG	AIR VALVE/HEATER MAX APD MAX CFM IN W.C.	ELECTRIC HEATER KW	HEATER NO OF STAGES	FAN POWERED / HP	FAN ELECTRICAL CHARACTERISTICS	HEATER ELECTRICAL CHARACTERISTICS	SOUND DATA		REMARKS
											DIS NC MAX	RAD NC MAX	
TU-3-1	9	700	210	1.0	.50	2.0	3	NO	---	480V/3Ø/60Hz	20	22	TITUS MODEL DESV
TU-3-2	4	200	200	1.0	.50	2.0	2	NO	---	480V/3Ø/60Hz	20	21	TITUS MODEL DESV
TU-3-3	4	180	80	1.0	.50	0.75	1	NO	---	277V/1Ø/60Hz	20	21	TITUS MODEL DESV
TU-3-4	14	2000	600	1.0	.50	6.0	3	YES 3/4	277V/1Ø/60Hz	480V/3Ø/60Hz	20	34	TITUS MODEL DTQ56 ④
TU-3-5	14	2180	700	1.0	.50	6.0	3	YES 3/4	277V/1Ø/60Hz	480V/3Ø/60Hz	20	35	TITUS MODEL DTQ56 ④
TU-3-6	14	2000	600	1.0	.50	6.0	3	YES 3/4	277V/1Ø/60Hz	480V/3Ø/60Hz	20	34	TITUS MODEL DTQ56 ④
TU-3-7	12	1400	400	1.0	.50	4.0	3	YES 1/3	277V/1Ø/60Hz	480V/3Ø/60Hz	20	28	TITUS MODEL DTQ55 ④
TU-3-8	7	440	440	1.0	.50	4.0	3	NO	---	---	20	20	TITUS MODEL DESV
TU-4-1	14x8	1000	340	1.0	.50	3.0	3	YES (2) 1/8 EA	277V/1Ø/60Hz	480V/3Ø/60Hz	20	25	TITUS MODEL DFCL4 LOW PROFILE MAX 12" HIGH ④
TU-4-2	14x8	900	340	1.0	.50	3.0	3	YES (2) 1/8 EA	277V/1Ø/60Hz	480V/3Ø/60Hz	20	25	TITUS MODEL DFCL4 LOW PROFILE MAX 12" HIGH ④
TU-4-3	14x8	900	340	1.0	.50	3.0	3	YES (2) 1/8 EA	277V/1Ø/60Hz	480V/3Ø/60Hz	20	25	TITUS MODEL DFCL4 LOW PROFILE MAX 12" HIGH ④
TU-4-4	6	260	100	1.0	.50	1.0	2	YES 1/6	277V/1Ø/60Hz	277V/1Ø/60Hz	20	20	TITUS MODEL DTQ52 ④
TU-4-5	8	480	160	1.0	.50	1.5	3	YES 1/6	277V/1Ø/60Hz	277V/1Ø/60Hz	22	25	TITUS MODEL DTQ52 ④
TU-4-6	5	250	250	1.0	.50	2.0	2	NO	---	480V/3Ø/60Hz	20	20	TITUS MODEL DESV
TU-4-7	4	160	160	1.0	.50	1.5	2	NO	---	277V/1Ø/60Hz	20	20	TITUS MODEL DESV
TU-4-8	12	1200	400	1.0	.50	4.0	3	YES 1/3	277V/1Ø/60Hz	480V/3Ø/60Hz	20	27	TITUS MODEL DTQ55 ④
TU-4-9	8	520	180	1.0	.50	1.5	2	YES 1/6	277V/1Ø/60Hz	277V/1Ø/60Hz	21	26	TITUS MODEL DTQ52 ④
TU-4-10	10	680	200	1.0	.40	2.0	2	YES 1/4	277V/1Ø/60Hz	480V/3Ø/60Hz	20	23	TITUS MODEL DTQ53 ④
TU-4-11	8	600	200	1.0	.40	2.0	2	YES 1/6	277V/1Ø/60Hz	480V/3Ø/60Hz	21	27	TITUS MODEL DTQ52 ④
TU-4-12	8	600	200	1.0	.40	2.0	2	YES 1/6	277V/1Ø/60Hz	480V/3Ø/60Hz	21	27	TITUS MODEL DTQ52 ④
TU-4-13	5	325	325	1.0	.50	3.0	2	NO	---	480V/3Ø/60Hz	20	20	TITUS MODEL DESV
TU-4-14	4	150	80	1.0	.50	0.75	1	NO	---	277V/1Ø/60Hz	20	20	TITUS MODEL DESV

- NOTE
- ① TERMINAL UNIT RUNOUT DUCT SIZE SAME AS NECK INLET SIZE UNLESS OTHERWISE NOTED
 - ② UNIT INDICATED IS A BASIS OF DESIGN SELECTION, "OR EQUAL" UNITS PROVIDED SHALL BE SIMILAR.
 - ③ THE MAXIMUM CFM SHALL ALSO BE THE MAXIMUM AIR DELIVERED BY THE FAN, THE FAN, SHALL BE SET TO MATCH ACTUAL CONDITIONS AT THE CFM SPEED.
 - ④ CONTROL PANEL SHALL EITHER BE UNIT MOUNTED OR REMOTELY MOUNTED TO ALLOW FOR PROPER CLEARANCES AND ACCESS AS PER APPLICABLE CODES OR UNIT TYPE.

ELECTRIC CABINET, WALL AND UNIT HEATER SCHEDULE									
UNIT NO.	CFM	KW	BTU/HR	VOLTAGE	PHASE	HP	TYPE	REMARKS	④
EW-1	100	2.0	6,825	277	1	---	WALL MOUNTED MODEL FRA2027	①②③④⑤⑥⑦	
EW-2	100	3.0	10,200	277	1	---	WALL MOUNTED MODEL FRA3027	①②③④⑤⑥⑦	
EW-3	100	4.0	13,600	277	1	---	WALL MOUNTED MODEL FRA3027	①②③④⑤⑥⑦	
UH-1	350	3.0	10,200	277	1	1/100	HORIZONTAL	①②③	
UH-2	350	5.0	17,000	277	1	1/100	HORIZONTAL	①②③	
CUH-1	100	3.0	10,200	277	1	---	CEILING, RECESSED, F-SERIES	①②	

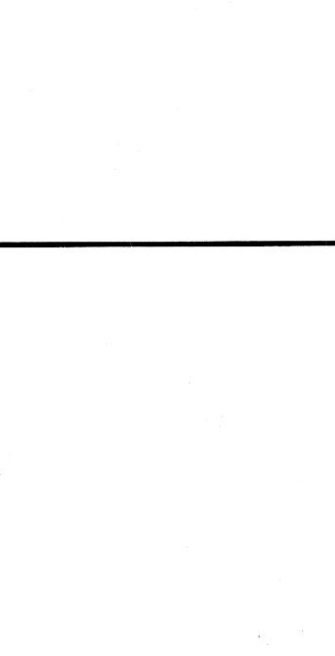
- NOTES:
- ① HEATERS SHALL BE AS MANUFACTURED BY BERKO.
 - ② PROVIDE VANDAL PROOF INTEGRAL THERMOSTAT, DISCONNECT SWITCH, FAN DELAY AND THERMAL CUTOFF.
 - ③ PROVIDE DISCONNECT SWITCH AND INTEGRAL THERMOSTAT.
 - ④ COLOR SHALL BE SELECTED AND APPROVED BY ARCHITECT.
 - ⑤ SURFACE MOUNTED WITH PROPER MOUNTING FRAME AND BOX.
 - ⑥ RECESSED MOUNTING WITH BACK BOX.
 - ⑦ MOUNT 12" AFF TO BOTTOM OF UNIT.
 - ⑧ PROVIDE WITH WALL/CEILING MOUNTING BRACKET. UNIT MOUNTED MINIMUM 8"-0" AFF TO BOTTOM.
 - ⑨ UNIT INDICATED IS A BASIS OF DESIGN SELECTION, "OR EQUAL" UNITS PROVIDED SHALL BE SIMILAR.

ROOFTOP UNIT SCHEDULE																	
DESIGNATION	AREA SERVED	NOMINAL UNIT TONS	SUPPLY CFM	MIN.O.A CFM	SUPPLY FAN MOTOR HP/ E.S.P.	RETURN FAN MOTOR HP/ E.S.P.	COOLING CAPACITY		HEATING CAPACITY			ELECTRICAL CHARACTERISTICS		REMARKS			
							TOTAL LOAD MBH	SENS. LOAD MBH	EAT °F DB/WB	EAT °F DB/WB	GAS FURNACE INPUT MBH	GAS FURNACE OUTPUT MBH	MAXIMUM UNIT WEIGHT		V/Ø/Hz	MCA	MAXIMUM FUSE SIZE
RTU-1	GYM NORTH	40	11,200	2,800	10/1.0"	7.5/30"	487.0	335.0	80/67	55/54.5	700	560	7,000 LBS	480/3/60	101	110	YORK MODEL "MILLENNIUM Y14BN" CONSTANT VOLUME UNIT ③
RTU-2	GYM SOUTH	40	11,200	2,800	10/1.0"	7.5/30"	487.0	335.0	80/67	55/54.5	700	560	7,000 LBS	480/3/60	101	110	YORK MODEL "MILLENNIUM Y14BN" CONSTANT VOLUME UNIT ③
RTU-3	LOBBY/OFFICE	30	9,100	900	10/3.0"	7.5/1.0"	368.0	262.0	80/67	60.4/57.0	466	372	6,500 LBS	480/3/60	96	110	YORK MODEL "MILLENNIUM Y13BN" VARIABLE AIR VOLUME UNIT ③
RTU-4	FITNESS	30	8,000	2,000	10/3.0"	7.5/1.0"	367.2	252.4	82/68	56/54	466	372	6,500 LBS	480/3/60	81	90	YORK MODEL "MILLENNIUM Y13BN" VARIABLE AIR VOLUME UNIT ③

- NOTE:
- ① BASED ON 65°F SPACE TEMPERATURE.
 - ② UNIT INDICATED IS A BASIS OF DESIGN SELECTION, "OR EQUAL" UNITS PROVIDED SHALL BE SIMILAR.
 - ③ UNIT DIMENSIONS AND ARRANGEMENT MUST BE CLOSELY COORDINATED WITH THIS PROJECT.
 - ④ UNIT SHALL BE COMPLETE WITH ACOUSTICAL/VIBRATION ISOLATION TYPE ROOF CURB.
 - ⑤ UNIT SHALL BE COMPLETE WITH "ROOFTOP UNIT SOUND ATTENUATION PACKAGE". THIS SHALL INCLUDE COMPRESSOR BLANKET AND ACOUSTICAL INSULATION. CURB INSULATION AND DOUBLE WALL CONSTRUCTION.



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81