



MECHANICAL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DUCTWORK, DOUBLE LINE AND SINGLE LINE. DIMENSIONS ARE NET FREE AREA.		FLEXIBLE DUCTWORK CONNECTION (FC)
	SUPPLY DUCTWORK. DIMENSIONS ARE NET FREE AREA.		1/2" DOOR UNDERCUT (UC)
	RETURN OR EXHAUST DUCTWORK. DIMENSIONS ARE NET FREE AREA.		DIFFUSER WITH RIGID SUPPLY DUCTWORK AND FLEXIBLE DUCTWORK TO DIFFUSER
	ACOUSTICALLY LINED DUCTWORK. DIMENSIONS ARE NET FREE AREA.		WALL RETURN OR EXHAUST REGISTER
	DUCTWORK RISE (R) OR DROP (D) ARROW SHOWS DIRECTION OF FLOW.		RETURN OR EXHAUST REGISTER OR GRILLE
	TRANSITION; 4:1 RATIO FOR LOW PRESSURE; 7:1 RATIO FOR HIGH PRESSURE.		SPLITTER DAMPER (SPD) WITH PUSH-PULL LOCKING ADJUSTMENT ROD
	ELBOW TURNED UP WITH TURNING VANES		ROUND DUCT TURNED DOWN
	ELBOW TURNED DOWN WITH TURNING VANES		ROUND DUCT TURNED UP
	RADIUS TYPE ELBOW WITH TURNING VANES. INSIDE RADIUS = WIDTH.		RECTANGULAR TO ROUND OR CONICAL TAKEOFF AND DAMPER W/STANDOFF BRACKET
	SQUARE TYPE ELBOW WITH DOUBLE THICKNESS VANES. VANES REQUIRED IN ALL DUCTWORK ELBOWS UNLESS NOTED OTHERWISE.		DUCT SMOKE DETECTOR
	ACCESS DOOR (AD) OR ACCESS PANEL (AP) 12"x12" UNLESS NOTED OTHERWISE		FIRESTAT
	FIRE DAMPER (FD) OR SMOKE DAMPER (SD) ALL FD OR SD SHALL HAVE A 12X12 AP UNLESS NOTED OTHERWISE		THERMOSTAT
	MANUAL VOLUME DAMPER (MVD)		HUMIDISTAT
			CONDENSATE DRAIN

PACKAGED HEAT PUMP AND AIR CONDITIONING UNIT SCHEDULE

SYMBOL	TOTAL CFM	OUTSIDE AIR CFM	EXT. S.F. INCHES H ₂ O	FAN HP	COOLING MIN. (1)			HEATING MIN. (2)				ELECTRICAL CHARACTERISTICS VOL-T-PHSE-HZ	MAX. AIR DESIGN (lb/hr)	BASIS OF DESIGN	REMARKS
					TOTAL MBH	SEN. MBH	SEER/EER	TOTAL MBH	ELEC. K.W.	STAGIS	COP				
PAC-1	1000	640	0.6	3.0	86.7	62.2	-/11.2	61.5	18	2	...	208-3-40		J072RE1B92A1BCAA41	1,2,3,4,5,6,7,9,10
PHP-1	1200	230	0.6	1.5	37.2	26.7	14.0/12.0	23.2	7	1	3.35	208-3-40		J03XNE07B2A1BCAA41	1,2,3,4,5,6,8,9,10
PHP-2	3000	340	0.6	1.5	90.3	64.1	-/11.4	88.0	18	2	3.4	208-3-40		J07XPE1B92A1BCAA41	1,2,3,4,5,6,7,8,9,10
PHP-3	2600	240	0.6	2.0	86.7	59.6	-/12.0	75.0	18	2	3.4	208-3-40		J06XPE1B92A1BCAA41	1,2,3,4,5,6,7,8,9,10

- SCHEDULE NOTES:**
- RATED IN ACCORDANCE WITH AHRI STANDARD 210/240.
 - HEATING CAPACITY BASED ON EWB 60°F; AMBIENT TEMPERATURE 47°F.
 - PROVIDE MOTORIZED OUTSIDE AIR DAMPER AND MOTORIZED BAROMETRIC RELIEF DAMPER.
 - INDOOR TOUCH-SCREEN 7-DAY PROGRAMMABLE/COMMUNICATING UNIT THERMOSTAT.
 - PROVIDE SINGLE POINT POWER CONNECTION FOR UNIT AND FACTORY INSTALLED CONVENIENCE OUTLET. ALL WIRING, TRANSFORMERS, ETC. SHALL BE FACTORY INSTALLED.
 - COOLING ONLY WITH ELECTRICAL HEAT. SINGLE ZONE VAV OPERATION WITH VFD, PROVIDE HOT GAS REHEAT.
 - PROVIDE ECONOMIZER AND ECONOMIZER CONTROLS.
 - HEAT PUMP.
 - PROVIDE FACTORY DISCONNECT SWITCH.
 - 20" HIGH CURBS.

AIR DISTRIBUTION SCHEDULE

SYMBOL	MAX N.C. SONES	MAX VEL. FPM	MODEL	DESCRIPTION	REMARKS
A	25	500	TITUS TQCA-AA	LOUVERED FACE DIFFUSER (6" NECK UNLESS NOTED OTHERWISE)	1,2,3,4,5,6
B	25	500	TITUS TQCA-AA	LOUVERED CORE DIFFUSER (6" NECK UNLESS NOTED OTHERWISE)	1,2,3,4,5,7
C	25	500	TITUS TQCA-AA	LOUVERED CORE DIFFUSER (10" NECK UNLESS NOTED OTHERWISE)	1,2,3,4,5,8
D	25	500	TITUS TQCA-AA	LOUVERED CORE DIFFUSER (12" NECK UNLESS NOTED OTHERWISE)	1,2,3,4,5,9
E	25	500	TITUS TQCA-AA	LOUVERED CORE DIFFUSER (14" NECK UNLESS NOTED OTHERWISE)	1,2,3,4,5,10
F	25	500	TITUS 50F	1/2" X 1/2" X 1/2" EGGRATE GRILLE (24" X 24" UNLESS NOTED OTHERWISE)	1,2,3,4,5
G	25	500	TITUS 50F	1/2" X 1/2" X 1/2" EGGRATE GRILLE (12" X 12" UNLESS NOTED OTHERWISE)	1,2,3
H	25	500	TITUS 300FS	SIDEWALL SUPPLY GRILLE	1,2,4,5,11
I	25	500	TITUS 330FL	SIDEWALL RETURN GRILLE	1,2,4,5,11

- AIR DISTRIBUTION SCHEDULE NOTES:**
- REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION.
 - PROVIDE OFF-WHITE FINISH. VERIFY WITH ARCHITECT PRIOR TO ORDERING.
 - EXTEND 24" X 24" PANEL IN LAY IN CEILING. SURFACE MOUNT IN DFP, BOARD CEILING.
 - PROVIDE OPPOSED BLADE DAMPER WITH EXTERNAL ADJUSTMENT.
 - PROVIDE TRANSITION ADAPTER AS REQUIRED. ROUND TO RECTANGULAR OR RECTANGULAR TO RECTANGULAR, OR ROUND TO ROUND.
 - PROVIDE 6" ROUND RUNOUT UNLESS OTHERWISE NOTED.
 - PROVIDE 8" ROUND RUNOUT UNLESS OTHERWISE NOTED.
 - PROVIDE 10" ROUND RUNOUT UNLESS OTHERWISE NOTED.
 - PROVIDE 12" ROUND RUNOUT UNLESS OTHERWISE NOTED.
 - PROVIDE 14" ROUND RUNOUT UNLESS OTHERWISE NOTED.
 - INSTALL BLADES PERPENDICULAR TO FLOOR.
 - INSTALL BLADES PARALLEL TO FLOOR.

TRANSFER DUCT SCHEDULE

SYMBOL	MIN AIRFLOW	MAX AIRFLOW	MAX VEL	DUCT SIZE	OPENING SIZE (IN TOP OF DUCT)
T-1	0	400	500	14"x8", 20"x6"	10"x8"
T-2	400	650	500	20"x8", 20"x6"	14"x8"
T-3	650	850	500	20"x10"	18"x8"
T-4	850	1100	500	32"x8"	22"x8"
T-5	1100	1100	500	40"x8"	22"x10"

EXHAUST FAN SCHEDULE

SYMBOL	CFM	EXT. S.F. INCHES H ₂ O	MAX. RPM	SONES	WHEEL DIA.	WATS	ELECTRICAL	INTERLOCK WITH	REMARKS
EF-1	70	0.5	934	3.5	---	72	120/1/60	PHP-2	1
EF-2	70	0.5	934	3.5	---	72	120/1/60	PHP-2	1
EF-3	70	0.5	934	3.5	---	72	120/1/60	PHP-3	1
EF-4	70	0.5	934	3.5	---	72	120/1/60	PHP-3	1
EF-5	70	0.5	934	3.5	---	72	120/1/60	PHP-3	1

- EXHAUST/SUPPLY FAN SCHEDULE NOTES:**
- GREENHECK MODEL SP-A CEILING MOUNTED EXHAUST FAN. PROVIDE BACKRAFT DAMPER, SOLID STATE SPEED CONTROLLER, HANGING VIBRATION ISOLATION KIT, ALUMINUM DESIGNER grille, DISCONNECT SWITCH, AND BRICK VENT BY 5-SET. PLANS FOR QUANTITY OF BRICK VENTS.

DUCTLESS MINI-SPLIT HEAT PUMP UNIT SCHEDULE

SYMBOL	DESCRIPTION TONNAGE	SUPPLY AIR CFM	OUTSIDE AIR MIN/MAX	EXT. S.F. INCHES H ₂ O	COOLING MIN.			HEATING MIN.	INDOOR ELEC.	OUTDOOR ELEC.	REMARKS
					TOTAL MBH	SEN. MBH	SEER/EER	TOTAL MBH			
DAC-1	WALL MTD. 1.0N	380	0	0	12.0	8.4	15.2	---	208/1/60	208/1/60	1,2,3,4,5,6,7

- SCHEDULE NOTES:**
- COOLING CAPACITY BASED ON EDB 80°F, EWB 67°F, AND AMBIENT 95°F.
 - NOT USED.
 - RATED IN ACCORDANCE WITH AHRI STANDARD 210.1.
 - OUTDOOR UNIT, MITSUBISHI MODEL PUF, PROVIDE R-410A REFRIGERANT.
 - INDOOR UNIT, MITSUBISHI MODEL PEA, PROVIDE R-410A REFRIGERANT, FACTORY FILTERS AND DISCONNECT SWITCH.
 - PROVIDE WIRED WALL MOUNTED CONTROLLER. LOCATED AS SHOWN ON DRAWINGS.
 - PROVIDE SINGLE POINT POWER CONNECTION FOR OUTDOOR UNIT. ALL WIRING, TRANSFORMERS, ETC. SHALL BE FACTORY INSTALLED.

2015 INTERNATIONAL MECHANICAL CODE REQUIRED OUTDOOR VENTILATION AIR TABLE 403.3

UNIT TAG	ROOM	ROOM CLASSIFICATION PER TABLE 403.3	AREA (FT ²) (A ₀)	EST. OCC. (P ₀)	OCC. O.A. RATE PER PERSON (P ₀)	AREA O.A. RATE PER FT ² (P ₀)	TOTAL OCC. O.A. RATE (CFM) (P ₀ A ₀)	TOTAL AREA O.A. RATE (CFM) (P ₀ A ₀)	TOTAL O.A. (CFM) (P ₀ A ₀)	ZONE O.A. (CFM) (P ₀ A ₀)	O.A. INTAKE FLOW (CFM) (P ₀ A ₀)	ZONE AIR DISTRIBUTION EFFECTIVENESS (E ₀)
PHP-1	101 Lobby 127 Corridor 128 Waiting	Lobbies/Prefunction Corridors Lobbies/Prefunction	641 1.62 120	15.0 0.0 0	7.5 0 7.5	0.06 0.06 0.06	112.5 0 900	38.5 0 7.2	39.5 0 900	190 0 20	190 0 20	0.8 0.8 0.8
PHP-4	102 Maps 103 Tax Assessor	Office Spaces Office Spaces	166 135	4.0 1.0	5 5	0.06 0.12	240 165	20 16.5	240 181.5	40 30	40 30	0.8 0.8
	104 Tax Collector 105 TAX FILE STORAGE	Office Spaces Storage Rooms	166 190	1.0 0.0	5 0	0.06 0	990 0	30.6 0	990 0	17.1 30	17.1 30	0.8 0.8
	109 Electrical 110 Breakroom 129	Storage Rooms Breakroom Corridor (Partial)	51 154 143	0.0 0.77 0	0 15 0	0 0.06 0	0 10.1 0	5.1 9.5 0	5.1 19.6	7.7 10	7.7 10	0.8 0.8 0.8
	130 Corridor 131 Vestibule	Corridors Corridors	279 138	0 0	0 0	0.06 0.06	0 0	1.6 8.2	16.7 81.2	20.9 20	20.9 20	0.8 0.8
PHP-2	114 Conference/Rec 115 Storage 116 Probate 117 Probate 118 Drivers 119 License 124 Chief 125 Registrar 126 Registrar 129	Conference/Meeting Storage Rooms Office Spaces Office Spaces Office Spaces Office Spaces Office Spaces Office Spaces Office Spaces Office Spaces Corridor (Partial)	336 308 267 267 219 130 158 120 416	0.0 0.0 0 0 1.09 0.76 0.79 0.58 0	5 5 5 5 5 5 5 5 0	0.06 0.12 0.06 0.06 0.08 0.06 0.06 0.06 0	0 0 7.34 7.34 5.47 3.8 3.95 2.99 0	0 0 17.9 17.9 13.1 9.1 12.9 10.2 0	0 0 25.4 25.4 18.6 9.1 12.9 10.2 0	100 50 40 20 30 20 20 20 0	100 50 40 20 30 20 20 20 0	0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8
PAC-1	118 Records 119 Storage 120 Voting Machine 121 Probate 122 Revenue Subtotal	Office Spaces Storage Rooms Storage Rooms Office Spaces Office Spaces	888 70 143 360 411	4.4 0.0 0.0 1.8 2.05	5 5 5 5 5	0.06 0.12 0 0.06 0.06	22.2 0 0 9.36 8.26	53.3 0 0 31.8 24.7	75.8 0 0 30.8 25.0	94.4 20 30 40 50	94.4 20 30 40 50	0.8 0.8 0.8 0.8 0.8

Order Plans @

WWW.LDILLINO.COM