Stamford School HVAC Inspections/Evaluations: " Stark"

HVAC EQUIPMENT TAG NAME & NUMBER	LOCATION OF EQUIPMENT	MANUFACTURE NAME & YEAR	MODEL #	SERIAL #	TYPE OF EQUIPMENT - RTU/SPLIT/HP/GAS ELECTRIC	AREA / FLOOR SERVED	CONDITION OF UNIT	OPERATIONAL Y/N	ECONOMIZER Y/N OPERATIONAL AND % OPEN	ELECTRIC HEAT AMPS FLA / AVG	COMPRESSOR AMPS	FILTER SIZE / QTY	BLOWER AMPS	VFD Y/N AND OPERATING HZ / % AT TIME OF TESTING.	UNIT VOLT / PHASE	DD OR BELT	SUPPLY FAN BELT SIZE & QTY	RETURN FAN BELT SIZE & QTY	NOTES:	Updated Notes and follow up Repairs done:
AC-1	Teacher lounge	Trane 1996	TWE120A300BB	L304K215H	Split AH	UNKNOWN	FAIR	YES	YES 10%			16x25x1-4	4.5	NO	208/3	BELT	A50		Unit is in FAIR condition, however at time of inspection found air filters are plugged, belt is worn and making noise, evaporator coil is icing up.	
AC-1 Condenser	Ground	Trane 1996	TTA120A300BB	L303YKNAH	Split Cond	UNKNOWN	FAIR	YES	N/A		27.2		4.2	NO					Unit is in FAIR condition, condenser coil needs to be cleaned, compressor contactor needs to be replaced is bady pitted.	
RTU-2	Roof	Trane 1996	YCD210C3H0AB	L32102958D	RTU Gas/Elec	Media Center	POOR	YES	YES 10%		12.5/18.13	20x20x2-2 20x25x2-4	18.8	NO	208/3	BELT	BX68-1		Unit is in POOR conditon, Economizer screens are damaged, blower motor bearings are bad, motor shiv, idler pulley and blower pulley are worn, belt is worn. Circuit 1 pumping down has plugged filter drier. Contactor for blower and compressor 2 need replacement. Condenser coil is dirty and needs to be cleaned. HX inspected	
AC4	Attic	Trane 1996	MCAA030NAG0ABAB0	K96H74266	Split AH		FAIR	YES	YES 2%		N/A	20x20x2-8 16x20x2-12	36.5	NO	200/3	BELT	BX85-2		Unit is in FAIR condition, Belts need replacement, filters are dirty. Outdoor air dammper is set to 15% open but is almost completely closed. Damper linkage needs to be adjusted, tested actuator is working properly. Face and bypass damper has a disconnect actuator and a block of wood stuck between damper blades to hold open. One circuit of cooling is freezing slightly.	
AC4 Condenser	Roof	Trane 1996	RAUCC50ECM031B	J96G82363	Split Cond	UNKNOWN	FAIR	YES	N/A		39.5/44.03		3.2/3.7/2.7	NO	200/3				Unit is in fair condition, at time of testing was only running 2 stages of cooling, checked all contactors and fans, condenser coils need to be washed.	
RTU-5	Roof	Trane 1996	YCD360AELB2A2001F	J96G1338	RTU Gas/Elec	UNKNOWN	FAIR	YES	YES 10%		41.8/45.47	16x20x2-16	25.2	NO	200/3	BELT	BX103-1		Unit is in FAIR condition, Blower motor has worn bearings, motor shiv and blower pulley are worn, belt is worn and loose, condenser coils are impacted and need cleaning, Ignitor is drawing low amperage and will need to be replaced.	
RTU-6	Roof	Trane 1996	YCD240B3L0DE	L30102245D	RTU Gas/Elec	Auditorium	POOR	YES	NO 0%		38.4/47.23	20x25x2-4 20x20x2-4	15.7	NO	208/3	BELT	BX75-1		Unit is in POOR condition, Economizer screen is missing, economizer is not functional, harness is unplugged and heavily corroded with broken wiring and is in the closed position. Blower motor has bad bearings, motor shiv idler pulley and blower pulley are worn out. Blower contactor needs replacement. Compresor 2 not operating. Condenser coil is heavily impacted, inner coil is unsecured and rubbing on condenser fan housings.	**9/24 Found faulty connection on winding temp limit switch for compressor 2, repaired connection. Secured inner condenser coil. 2nd stage compressor over amps due to poor air flow through condenser coil, left breaker for compressor off in unit.**
RTU-7	Roof	Trane 1996	YCD360AELB2A2001F	J96G91339	RTU Gas/Elec		FAIR	YES	NO 0%		42.3/43.33	16x20x2-16	17.4	NO	200/3	BELT	BX103-1		Unit in FAIR condition, economizer screens are damaged, economizer is disconnected, note in unit saying due to gas smell. Blower motor has noisy bearings and should be replaced. Blower pulley and motor shiv are worn and needs replacement. Belt needs replacement. Condenser fan motor 3 needs to be replaced, is making noise, Trane was out for service call on unit, will need to find out if they are replacing.	**9/24 Smelled gas near unit, sprayed down piping to unit, located gas leak in burner compartment on 3/4 union. Repaired. Sprayed all joins after repair to confirm no leaks. Hook up economizer actuator, and plug board back in, start and check operation, and min position. Economizer is now functional and set to 10%**
RTU-8	Roof	Trane 1996	YCD181C3LAA	N26100910D	RTU Gas/Elec	Café	FAIR	YES	YES 10%		22.8/12.97	20x20x2-4 20x25x2-4	6.4	NO	208/3	BELT	BX64-1		Unit is in FAIR condition Blower belt is worn and loose, idler pulley needs replacement. Economizer screen damaged, contactors for #2 compressor and blower need to be replaced, corrosion on Ltb-1 terminal board. Condenser coil is impacted and needs to be cleaned.	
RTU-9	Roof	Trane 1998	SFHFC30EHPB6A39D1D101ARTY	J98F71764	RTU Gas/Elec	UNKNOWN	FAIR	YES	YES 10%		41.2/40.73	16x20x2-8 20x20x2-16	14.9	NO	200/3	BELT	BX75	A67-1	Unit is in FAIR condition, compressor 1 and 2 contactors are in need of replacement, blower contactor needs to be replaced. Blower motor shiv and blower pulley are worn, belt is worn out. There are refrigerant oil leaks on system, liquid line drier is wet with oil, both inlets of compressors are covered with oil as well. Condensate trap is missing on one side of the unit will need to be replaced.	
EF-1	Roof	Greenheck	CUBE-240-7	96E12145	Mushroom	Kiln Rm 212	FAIR	YES	Yes	FAIR	3/4HP	1725	1.9	N	208/3	BELT	A34	Curb 33x33 Fan 34x32	Exhaust fan in is FAIR condition belt is very WORN and needs to be REPLACED	
EF-2	Attic	Greenheck	BS0-240-10	96F12752	Inline	AC4 Exhaust	FAIR	YES	Yes	FAIR	1HP	1725	2	N	208/3	BELT	A71	N/A	Exhaust fan is in FAIR condition, however motor starter has been bypassed, need to check why.	**9/24/2019 Starter is bypassed, exhaust damper for fan is closed, traced wiring, found no power to control relay K2 which is energized for Tracer panel. When k2 is energized sens power to damper, when damper opens end switch makes which pulls coil on motor starter to start fan. need to have controls tech see why tracer isnt powering the output. Fan is just running and not moving air.**
EF-3	Roof	Greenheck	GB-180-10	96F12358	Mushroom	AC5 Exhaust	FAIR	YES	Yes	FAIR	1HP	1725	2.9	N	208/3	BELT	A28	Curb 29x29 Fan 30x30	Exhaust fan in is FAIR condition belt is very WORN and needs to be REPLACED	
EF-4	Roof	Greenheck	GB-180-7	96f12362	Mushroom	AC6 Exhaust	FAIR	YES	Yes	FAIR	3/4HP	1725	2.1	N	208/3	BELT	A28	Curb 29x29 Fan 30x30	Exhaust fan in is FAIR condition, no power to fan .	**Found starter tripped, reset and check fan is working.**
EF-5	Roof	Greenheck	GB-180-10	96L10703	Mushroom	AC7 Exhaust	FAIR	YES	**NO**	FAIR	1HP	1725	2.8	N	208/3	BELT	A25	Curb 29x29 Fan 30x30	Exhaust fan is in FAIR condition Belt needs to be replaced and pulleys aligned	
EF-6	Roof	Greenheck	CUBE-300-20-G	96F10301	Mushroom	Kitchen	FAIR	YES	Yes	**POOR**	2HP	1740	3.6	N	208/3	BELT	A43	Curb 38.75x38.75 Fan 40x40	Exhaust fan is in FAIR condition, Belt is very worn, motor and fan sheave need replacement due to wear	
EF-7 (17)	Roof	Greenheck	G-95-D	96E13771	Mushroom	Custodial closet	POOR	NO	N/A	N/A	1/8HP	1550		N	120/1	DD		Curb 18x8 Fan 19x19	Exhaust fan is in POOR condition, motor is siezed, there is no power to fan, needs to be replaced. Need to identify power source.	
EF-8	Teacher lounge	Greenheck	BS0-120-4	96F12696	Inline	Teacher lounge	FAIR	YES	Yes	FAIR	1/4HP	1725	1.4	N	120/1	BELT	3L400	N/A	Exhaust fan is in FAIR condition, belt is worn and needs replacement, currently not running, unknown what controls fan at this time, bypassed relay on side of ac1 unit to make run.	
EF-9	Roof	Greenheck	GB-140-3	96F12221	Mushroom	Unknown	FAIR	YES	Yes	POOR	1/3HP	1725	5.2	N	120/1	BELT	3L210	Curb 24x24 Fan 26x26	Exhaust fan is in FAIR condition Belt needs to be replaced along wih both sheaves.	
EF-10	Roof	Greenheck	GB-140-3	96F12219	Mushroom	Unknown	FAIR	YES	Yes	POOR	1/3HP	1725	5	N	120/1	BELT	3L210	Curb 24x24 Fan 26x26	Exhaust fan is in FAIR condition Belt needs to be replaced along wih both sheaves.No power to fan.	Found faulty connection at control relay in electrical room for fan starter.

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EF-11	Attic	Greenheck	SWB-15-4-CW-UB	96F12574	Inline	Bathrooms	FAIR	NO	Yes	FAIR	1/4HP	1725		N	120/1	BELT	3L380	N/A	Exhaust fan is in FAIR condition, motor is burnt out and needs to be replaced.	
EF-13	Roof	Greenheck	GB-180-5	96F12359	Mushroom	Gym	FAIR	YES	Yes	POOR	1/2HP	1725	1.6	N	208/3	BELT	A28	Curb 29x29 Fan 30x30	Ehaust fan is in FAIR condition, needs motor sheave and pulley replaced along with belt.	
EF-14	Roof	Greenheck	GB-180-5	96F12360	Mushroom	Gym	FAIR	YES	Yes	POOR	1/2HP	1725	1.6	N	208/3	BELT	A28	Curb 29x29 Fan 30x30	Exhaust fan is in FAIR condition, Belt is very worn, motor and fan sheave need replacement due to wear	
EF-15	Roof	Greenheck	GB-180-5	96F12361	Mushroom	Gym	FAIR	YES	Yes	POOR	1/2HP	1725	1.6	N	208/3	BELT	A28	Curb 29x29 Fan 30x30	Exhaust fan is in FAIR condition, Belt is very worn, motor and fan sheave need replacement due to wear. Found starter for fan was tripped, reset and check.	
EF-16	Roof	Greenheck	GB-140-4	96F12222	Mushroom	Unknown	FAIR	YES	Yes	POOR	1/3HP	1725	5.9	N	120/1	BELT	A20	Curb 25.75x25.75 Fan 26x26	Exhaust fan is in FAIR condition, belt is very worn, motor and fan sheave need replacement	
EF-18	Roof	Greenheck	CUBE-100-4	96F13067	Mushroom	Dishwasher	FAIR	NO	Yes	FAIR	1/4HP	1725		N	120/1	BELT	3L170	Curb 21.75x21.75 Fan 22x22	Exhaust fan is in FAIR condition, has no power to it power comes from dishwasher when in operation, however not currently getting power.	
EF-A	Roof	Unknown	No Tag	NA	Louvered EF	Unknown	POOR	YES	Yes	POOR	1/4HP	1725	5.8	N	120/1	BELT	4L600	Curb 36x35.5 Fan 36x36	Exhaust fan is in POOR condition, Wheel is out of balance and vibrates entire assembly, motor shiv is verry worn, unit needs replacement. There is no data tag on unit.	
EF-B	Roof	Greenheck	GB-141-LMDX-QD	01E15403	Mushroom	Unknown	FAIR	NO	NO	POOR	1/2HP	1725		N	120/1	BELT	UNK	Curb 20.5x20.5 Fan 22x22	Exhaust fan in is FAIR condition, has had a motor recently installed, however has not been finished, motor shiv is not installed, belt is missing, ther eis a worn out motor shiv laying in bottom of fan with set screw missing, needs new motor shiv and new belt to be installed.	
EF-C	Roof	Fantech	5DD106A	1003450846	Mushroom	Unknown	GOOD	YES	N/A	N/A	1/20HP	1150	0.9	N	120/1	DD		Curb 17x17 Fan 19x19	Fan is in GOOD condition and operational, no reccomendations at this time.	
EF-D	Roof	Unknown	No Tag		Mushroom	Unknown	POOR	NO	Yes	POOR	UNK	UNK		N	120/1	BELT	4L260	Curb 20.5x20.5 Fan 21x21	Fan is in POOR condition, motor is siezed, bearings are bad, unit is very old and in rough shape, need to REPLACE unit.	
EF-E (7)	Roof	Fantech	5DD106A	103474477	Mushroom	Toliet	GOOD	YES	N/A	N/A	1/20HP	1100	1	N	120/1	DD		Curb 18x18 Fan 19x19	Fan is in GOOD condition and operational, no reccomendations at this time.	
EF-i	Roof	Carnes	VUBK18M1A1NA20A_C1	227721.001	Mushroom	Elevator	GOOD	NO	Yes	FAIR	1/3HP	1725		N	120/1	BELT	4L240	Curb 30x30 Fan 25x25 Adapter 25x31	Exhaust fan is in GOOD condition, there is NO POWER to fan, for elevator shaft. Unable to locate power source.	
EF-12	Roof	Greenheck	GB-140-3	96F12220	Mushroom	Toliet	POOR	NO	Yes	POOR	1/3HP	1725		N	120/1	BELT	3L210	Curb 25x25 Fan 26x26	Exhaust fan is in POOR condition, no power to fan, motor shiv and pulley worn, belt is worn, fan is in rough shape, screws missing for switch cover.	**9/26 found breaker in 2nd floor electrical room PP-A ckt 19 was tripped, reset breaker and check, motor is shorted to ground, immediately trips breaker, recommend replacing fan rather than reapir due to age and condition.**