

**NYC Department of Education  
Building Condition Assessment Survey 2023-2024**

**Mechanical Inspection**

**X292**


**Asset: THE DOMINIC CASTORE EDUCATIONAL COMPLEX - BRONX, 800 LYDIG AVENUE, BRONX, NY, 10462**

Inspection Id	Inspection Type	Time In	Last Edited
1523	MECHANICAL	2023-12-07 07:36AM	2024-01-08 11:33AM

**Asset Data**

Question	Answer
Have any Systems/Major Building Components been upgraded?	Systems: Sewage Ejector Pumps Years: 2020
Are there fuel tanks?	Yes
Total # of above ground tanks	1
Total capacity of all above ground tanks in gal.	275
Total # of below ground tanks	0
Total capacity of all below ground tanks in gal.	0
Total # of water main service entries to the asset	3
MERs/Fan Rooms Locations	Fire Booster Pump Room B11D
Are there any spaces with Missing or Defective CO Detectors?	Yes
Location(s)	Kitchen
Are there any Painted/Obstructed Sprinkler Heads?	Yes
Location(s)	Gymnasium (obstructed, 3)
Are there any Emergency Stop Switches with Missing Hammers?	No components

**Priority Condition**

Exist Last Year?	Priority Category	Condition Description	Component Affected	Location Description	Person(s) Notified	Person(s) Title	Photo Image
No	Defective Sprinkler/Standpipe System	Fire Booster Pump is leaking excessively	Fire Booster Pump Assembly	Fire Booster Pump Room B11D	Vernon Gillum	Handyman	

**Inspection**

Question	Response
<b>Mechanical</b>	
<b>AIR CONDITIONING</b>	Inspected
<b>Chilled Water System</b>	Inspected
<b>Absorption Chiller</b>	Does not exist
<b>Air Cooled Chiller</b>	Does not exist
<b>Air Cooled Condenser</b>	Does not exist
<b>Chilled Water Distribution: Piping, Pumps and Auxiliaries</b>	Inspected
Condition	1- Good
Deficiency	PIPING:DAMAGED/MISSING INSULATION
Deficiency Location/Instance	Boiler Room
Deficiency Quantity	10
Quantity Uom	L.F.
Potential Action	MAINTENANCE
Urgency of Action	PRIORITY 3
Purpose of Action	LEVEL 2
Violations	No violations recorded
<b>Backflow Preventer</b>	Inspected
Condition	2- Between Good and Fair
Deficiency	No deficiencies recorded
<b>Central Station Air Handler</b>	Inspected
Instance	East Lower Roof
Instance Condition	2- Between Good and Fair
Instance Quantity	1
Instance Quantity Uom	EACH
Manufacturer	Coolbreeze

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<b>Question</b>	<b>Response</b>
<b>AIR CONDITIONING</b>	
<b>Chilled Water System</b>	
<b>Central Station Air Handler</b>	
EquipmentId	RTU-1
Capacity/Size Quantity	18000
Capacity/Size UOM	CFM
Source of Capacity/Size	Documented
Installation Year	2013
Source of Installation Year	Documented
Deficiency	No deficiencies recorded
Instance	East Lower Roof
Instance Condition	2- Between Good and Fair
Instance Quantity	1
Instance Quantity Uom	EACH
Manufacturer	Coolbreeze
EquipmentId	RTU-3
Capacity/Size Quantity	5500
Capacity/Size UOM	CFM
Source of Capacity/Size	Documented
Installation Year	2013
Source of Installation Year	Documented
Deficiency	No deficiencies recorded
Instance	West Lower Roof
Instance Condition	2- Between Good and Fair
Instance Quantity	1
Instance Quantity Uom	EACH
Manufacturer	Coolbreeze
EquipmentId	RTU-2
Capacity/Size Quantity	18700
Capacity/Size UOM	CFM
Source of Capacity/Size	Documented
Installation Year	2013
Source of Installation Year	Documented
Deficiency	No deficiencies recorded
Instance	West Lower Roof
Instance Condition	2- Between Good and Fair
Instance Quantity	1
Instance Quantity Uom	EACH
Manufacturer	Coolbreeze
EquipmentId	RTU-4
Capacity/Size Quantity	6500
Capacity/Size UOM	CFM
Source of Capacity/Size	Documented
Installation Year	2013
Source of Installation Year	Documented
Deficiency	No deficiencies recorded
<b>Fan Coil Unit</b>	Does not exist
<b>Packaged Air Cooled Chiller</b>	Inspected
Instance	Main Roof
Instance Condition	2- Between Good and Fair
Instance Quantity	1
Instance Quantity Uom	EACH
Manufacturer	Arctic
EquipmentId	CH-1
Capacity/Size Quantity	215
Capacity/Size UOM	Tons

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Question	Response
<b>AIR CONDITIONING</b>	
<b>Chilled Water System</b>	
<b>Packaged Air Cooled Chiller</b>	
Source of Capacity/Size	Inspector Estimate
Installation Year	2013
Source of Installation Year	Documented
Refrigerant Type	R-410A
Deficiency	No deficiencies recorded
<b>Water Cooled Chiller</b>	Does not exist
<b>Condenser Water Distribution: Piping, Pumps and Auxiliaries</b>	Does not exist
<b>Cooling Coil in Ductwork</b>	Does not exist
<b>Cooling Tower</b>	Does not exist
<b>DX Split System</b>	Inspected
<b>Indoor Unit</b>	Inspected
Condition	2- Between Good and Fair
Deficiency	No deficiencies recorded
<b>Outdoor Unit</b>	Inspected
Condition	2- Between Good and Fair
Deficiency	No deficiencies recorded
<b>Dry Cooler</b>	Does not exist
<b>Packaged / Rooftop Unit</b>	Does not exist
<b>Packaged Terminal A/C</b>	Does not exist
<b>Refrigerant Leak Detection System</b>	Does not exist
<b>Refrigerant Piping</b>	Inspected
Condition	2- Between Good and Fair
Deficiency	No deficiencies recorded
<b>Return Fan</b>	Inspected
Condition	2- Between Good and Fair
Deficiency	No deficiencies recorded
<b>CENTRAL ACID WASTE NEUTRALIZING TANK</b>	Does not exist
<b>CLIMATE CONTROL SYSTEM</b>	Inspected
<b>BMS</b>	Inspected
Instance	Throughout
Instance Condition	4- Between Fair and Poor
Instance Quantity	1
Instance Quantity Uom	EACH
Building Area Covered by Operational System	0-20%
Installation Year	2013
Source of Installation Year	Documented
Deficiency	DEFECTIVE SYSTEM
Deficiency Location/Instance	Throughout
Deficiency Quantity	1
Quantity Uom	EACH
Potential Action	REPAIR
Urgency of Action	PRIORITY 3
Purpose of Action	LEVEL 2
Violations	No violations recorded
<b>Pneumatic System</b>	Does not exist
<b>Hybrid System</b>	Does not exist
<b>Electric System</b>	Does not exist
<b>COMPACTOR</b>	Does not exist
<b>CONVEYING</b>	Inspected
<b>Dumbwaiter</b>	Does not exist
<b>Elevator</b>	Inspected
Condition	2- Between Good and Fair

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Question	Response
<b>CONVEYING</b>	
<b>Elevator</b>	
Are all the existing elevators operable?	Yes
Deficiency	No deficiencies recorded
<b>Escalator</b>	
	Does not exist
<b>Non-auditorium Handicap Lift - Vertical</b>	
Condition	Inspected
Are all the existing non-auditorium vertical handicap lifts operable?	2- Between Good and Fair
Deficiency	Yes
	No deficiencies recorded
<b>Non-auditorium Handicap Lift - Stair</b>	
	Does not exist
<b>Ash Hoist</b>	
	Does not exist
<b>Sidewalk Elevator</b>	
	Does not exist
<b>DOMESTIC WATER SYSTEM</b>	
<b>Domestic Cold Water System</b>	
	Inspected
<b>Gravity System</b>	
	Does not exist
<b>Pressure Booster System</b>	
	Inspected
<b>Electric Pressure Booster System</b>	
Instance	Inspected
Instance Condition	Water Service Room B08
Instance Quantity	2- Between Good and Fair
Instance Quantity Uom	1
Manufacturer	EACH
EquipmentId	Liquitrol
Capacity/Size Quantity	N/A
Capacity/Size UOM	2
Capacity/Size 2 Quantity	Total # Pumps
Capacity/Size 2 UOM	15
Source of Capacity/Size	Total Pumps HP
Installation Year	Documented
Source of Installation Year	2013
Deficiency	Documented
	No deficiencies recorded
<b>Hydraulic/Pneumatic Booster System</b>	
	Does not exist
<b>Water Service</b>	
	Inspected
Instance	Water Service Room B08, Fire Booster Pump Room B11D
Instance Condition	1- Good
Instance Quantity	3
Instance Quantity Uom	EACH
Deficiency	No deficiencies recorded
<b>Domestic Hot Water System</b>	
	Inspected
<b>Domestic Hot Water Remote Storage Tank</b>	
	Inspected
Condition	2- Between Good and Fair
Deficiency	No deficiencies recorded
<b>Domestic Water Heat Exchanger</b>	
	Does not exist
<b>Electric Domestic Water Heater</b>	
	Does not exist
<b>Gas Fired Domestic Water Heater</b>	
	Inspected
Instance	Boiler Room
Instance Condition	2- Between Good and Fair
Instance Quantity	1
Instance Quantity Uom	EACH
Manufacturer	Lochinvar
EquipmentId	NIA
Capacity/Size Quantity	400
Capacity/Size UOM	MBH Input
Capacity/Size 2 Quantity	0

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Question	Response
<b>DOMESTIC WATER SYSTEM</b>	
<b>Domestic Hot Water System</b>	
<b>Gas Fired Domestic Water Heater</b>	
Capacity/Size 2 UOM	Gallons
Source of Capacity/Size	Documented
Installation Year	2013
Source of Installation Year	Documented
Deficiency	No deficiencies recorded
<b>Oil Fired Domestic Water Heater</b>	Does not exist
<b>Heat Pump Domestic Water Heater</b>	Does not exist
<b>Domestic Water Distribution Piping</b>	Inspected
Condition	1- Good
Deficiency	No deficiencies recorded
<b>DRAIN/WASTE/VENT AND STORM SYSTEM</b>	
<b>Interior Storm Piping</b>	Inspected
Condition	1- Good
Deficiency	No deficiencies recorded
<b>Sewage/Waste/Vent Piping</b>	Inspected
Condition	1- Good
Deficiency	No deficiencies recorded
<b>Sewage Ejector Pump</b>	Inspected
Condition	1- Good
Deficiency	No deficiencies recorded
<b>Sump Pump</b>	Inspected
Condition	2- Between Good and Fair
Deficiency	No deficiencies recorded
<b>DUAL TEMPERATURE SYSTEM (CHILLED AND HOT WATER)</b>	
<b>FIXTURES</b>	
<b>Staff And Other</b>	Inspected
<b>Janitor Sink</b>	Inspected
Condition	2- Between Good and Fair
Deficiency	No deficiencies recorded
<b>Lavatory/Sink</b>	Inspected
Condition	2- Between Good and Fair
Deficiency	No deficiencies recorded
<b>Toilet</b>	Inspected
Condition	2- Between Good and Fair
Deficiency	No deficiencies recorded
<b>Urinal</b>	Does not exist
<b>Student</b>	Inspected
<b>Drinking Fountain</b>	Inspected
Condition	2- Between Good and Fair
Deficiency	No deficiencies recorded
<b>Lavatory/Sink</b>	Inspected
Condition	2- Between Good and Fair
Deficiency	No deficiencies recorded
<b>Locker Room Shower</b>	Does not exist
<b>Sink And Fountain Combo Unit</b>	Inspected
Condition	2- Between Good and Fair
Deficiency	No deficiencies recorded
<b>Toilet</b>	Inspected
Condition	2- Between Good and Fair
Deficiency	No deficiencies recorded
<b>Urinal</b>	Inspected

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Question	Response
<b>FIXTURES</b>	
<b>Student</b>	
<b>Urinal</b>	
Condition	2- Between Good and Fair
Deficiency	No deficiencies recorded
<b>GAS FIRED FURNACE</b>	
	Does not exist
<b>GAS SERVICE</b>	
	Inspected
<b>Gas Distribution Piping</b>	
Condition	1- Good
Deficiency	No deficiencies recorded
<b>Gas Meter Room Exhaust Fan</b>	
	Does not exist
<b>Gas Meter Room Vent</b>	
	Does not exist
<b>Gas Pressure Booster</b>	
Instance	West Lower Roof - Gas Boosters Enclosure
Instance Condition	2- Between Good and Fair
Instance Quantity	2
Instance Quantity Uom	EACH
Manufacturer	Eclipse
EquipmentId	N/A
Capacity/Size Quantity	2
Capacity/Size UOM	HP
Source of Capacity/Size	Inspector Estimate
Installation Year	2013
Source of Installation Year	Documented
Deficiency	No deficiencies recorded
<b>CO/Gas Leak Detection</b>	
	Inspected
Instance	Boiler Room
Instance Condition	2- Between Good and Fair
Instance Quantity	1
Instance Quantity Uom	EACH
Installation Year	2013
Source of Installation Year	Documented
Deficiency	No deficiencies recorded
<b>HEATING</b>	
	Inspected
<b>Heating Coil In Ductwork</b>	
	Does not exist
<b>Hydronic Heating</b>	
	Inspected
<b>Hydronic Hot Water Distribution: Piping, Pumps and Auxiliaries</b>	
Condition	1- Good
Deficiency	PUMP:DEFECTIVE
Deficiency Location/Instance	Boiler Room / P-2
Deficiency Quantity	1
Quantity Uom	EACH
Potential Action	MAINTENANCE
Urgency of Action	PRIORITY 3
Purpose of Action	LEVEL 2
Violations	No violations recorded
<b>Backflow Preventer</b>	
	Does not exist
<b>Hot Water Heat Exchanger</b>	
	Does not exist
<b>Radiator/Convactor/Fin Tube</b>	
	Inspected
Condition	1- Good
Deficiency	No deficiencies recorded
<b>Steam Heating</b>	
	Does not exist
<b>Steam supplied by External Sources</b>	
	Does not exist
<b>Unit Heater/Cabinet Heater</b>	
	Inspected

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<b>Question</b>	<b>Response</b>
<b>HEATING</b>	
<b>Unit Heater/Cabinet Heater</b>	
Condition	2- Between Good and Fair
Deficiency	No deficiencies recorded
<b>HEATING PLANT</b>	
Instance on Penthouse	Inspected
Is there a water meter on the boiler make-up water piping?	No
Burner Manufacturer	N/A
Burner Model	N/A
Burner Type	N/A
Heating Plant Oil Number	N/A
<b>Boiler Auxiliaries</b>	
Instance on Penthouse	Inspected
<b>Boiler Auxiliary Piping</b>	
Instance on Penthouse	Inspected
Instance Condition	2- Between Good and Fair
Deficiency	No deficiencies recorded
<b>Boiler Emergency Stop Switch</b>	
Instance on Penthouse	Inspected
Instance Condition	2- Between Good and Fair
Deficiency	No deficiencies recorded
<b>Boiler Feedwater System</b>	
Instance on Penthouse	Does not exist
<b>Boiler Feedwater Treatment(Automatic)</b>	
Instance on Penthouse	Does not exist
<b>Boiler Flue Exhaust</b>	
Instance on Penthouse	Does not exist
<b>Boiler Make-up Water Backflow Preventer</b>	
Instance on Penthouse	Does not exist
<b>Boiler Room Steam And Condensate Piping</b>	
Instance on Penthouse	Does not exist
<b>Boiler Safety Valve</b>	
Instance on Penthouse	Does not exist
<b>Boiler System</b>	
Instance on Penthouse	Inspected
<b>Coal-fired Boiler</b>	
Instance on Penthouse	Does not exist
<b>Hot Water Boiler</b>	
Instance on Penthouse	Does not exist
<b>Modular Boiler</b>	
Instance on Penthouse	Inspected
Instance on Penthouse	Inspected
Instance	Boiler Room
Instance Condition	2- Between Good and Fair
Instance Quantity	1,122
Instance Quantity Uom	MBH NET
Manufacturer	AERCO
EquipmentId	164225-01
Capacity/Size Quantity	1290
Capacity/Size UOM	MBH Gross
Source of Capacity/Size	Documented
Installation Year	2013
Source of Installation Year	Documented
Deficiency	DEFECTIVE FLUE EXHAUST
Deficiency Location/Instance	Boiler Room

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Question	Response
<b>HEATING PLANT</b>	
<b>Boiler System</b>	
<b>Modular Boiler</b>	
Deficiency Quantity	1
Quantity Uom	EACH
Potential Action	MAINTENANCE
Urgency of Action	PRIORITY 3
Purpose of Action	LEVEL 2
Violations	No violations recorded
Instance	Boiler Room
Instance Condition	2- Between Good and Fair
Instance Quantity	1,122
Instance Quantity Uom	MBH NET
Manufacturer	AERCO
EquipmentId	164225-02
Capacity/Size Quantity	1290
Capacity/Size UOM	MBH Gross
Source of Capacity/Size	Documented
Installation Year	2013
Source of Installation Year	Documented
Deficiency	No deficiencies recorded
<b>Steam Boiler</b>	
Instance on Penthouse	Does not exist
<b>Fuel System</b>	
Instance on Penthouse	Inspected
<b>Boiler Fresh Air Louver/Damper</b>	
Instance on Penthouse	Inspected
Instance Condition	2- Between Good and Fair
Type	Automatic
Deficiency	No deficiencies recorded
<b>Burner/Burner Control Panel</b>	
Instance on Penthouse	Does not exist
<b>Fuel Oil Storage/Supply System</b>	
Instance on Penthouse	Does not exist
<b>Gas Trains And Vent At The Boiler</b>	
Instance on Penthouse	Does not exist
<b>Enclosed IDF Room</b>	
	Does not exist
<b>KITCHEN</b>	
	Inspected
Instance on Basement	Inspected
<b>CO Detector</b>	
Instance on Basement	Inspected
Instance Condition	4- Between Fair and Poor
Deficiency	DEFECTIVE/MISSING
Deficiency Location/Instance	Kitchen
Deficiency Quantity	1
Quantity Uom	EACH
Potential Action	MAINTENANCE
Urgency of Action	PRIORITY 5
Purpose of Action	LEVEL 6
Violations	No violations recorded
<b>Gas System</b>	
Instance on Basement	Inspected
Instance Condition	2- Between Good and Fair
Deficiency	No deficiencies recorded
<b>Grease Trap</b>	



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Question	Response
<b>KITCHEN</b>	
<b>Grease Trap</b>	
Instance on Basement	Inspected
Instance Condition	2- Between Good and Fair
Deficiency	No deficiencies recorded
<b>Hood</b>	
Instance on Basement	Inspected
Instance Condition	2- Between Good and Fair
Deficiency	No deficiencies recorded
<b>Hood Exhaust Ductwork</b>	
Instance on Basement	Inspected
Instance Condition	2- Between Good and Fair
Deficiency	No deficiencies recorded
<b>Hood Exhaust Fan</b>	
Instance on Basement	Inspected
Instance Condition	2- Between Good and Fair
Deficiency	No deficiencies recorded
<b>Hood Fire Suppression System</b>	
Instance on Basement	Inspected
Instance Condition	2- Between Good and Fair
Deficiency	No deficiencies recorded
<b>Hot Water Temperature Booster</b>	
Instance on Basement	Inspected
Instance Condition	2- Between Good and Fair
Deficiency	No deficiencies recorded
<b>Kitchen Sink</b>	
Instance on Basement	Inspected
Instance Condition	2- Between Good and Fair
Deficiency	No deficiencies recorded
<b>MDF Room</b>	
Instance on Room 203	Inspected
<b>Dedicated A/C Equipment</b>	
Instance on Room 203	Inspected
Instance Condition	2- Between Good and Fair
Deficiency	No deficiencies recorded
<b>SCIENCE DEMO ROOM</b>	
	Does not exist
<b>SCIENCE LAB</b>	
Instance on Room 315	Inspected
Alternative Use	No
<b>Acid Waste Neutralizing Tank</b>	
Instance on Room 315	Does not exist
<b>CO Detector</b>	
Instance on Room 315	Not required
<b>Emergency Shower</b>	
Instance on Room 315	Does not exist
<b>Eye Wash</b>	
Instance on Room 315	Inspected
Instance Condition	2- Between Good and Fair
Deficiency	No deficiencies recorded
<b>Hood Exhaust Ductwork</b>	
Instance on Room 315	Does not exist
<b>Hood Exhaust Fan</b>	
Instance on Room 315	Does not exist
<b>Fixed Laboratory Hood</b>	

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Question	Response
<b>SCIENCE LAB</b>	
<b>Fixed Laboratory Hood</b>	
Instance on Room 315	Does not exist
<b>Laboratory Sink</b>	
Instance on Room 315	Inspected
Instance Condition	2- Between Good and Fair
Deficiency	No deficiencies recorded
<b>Make-up Air Unit</b>	
Instance on Room 315	Does not exist
<b>SCIENCE PREP ROOM</b>	Does not exist
<b>SPRINKLERS, STANDPIPE, FIRE SYSTEM</b>	Inspected
<b>Dry Sprinkler Alarm Valve Assembly</b>	Does not exist
<b>Wet Sprinkler Alarm Valve Assembly</b>	Inspected
Condition	2- Between Good and Fair
Deficiency	No deficiencies recorded
<b>Fire Booster Pump Assembly</b>	Inspected
Condition	3- Fair
Deficiency	DEFECTIVE FIRE BOOSTER PUMP
Deficiency Location/Instance	Fire Booster Pump Room B11D
Deficiency Quantity	1
Quantity Uom	EACH
Potential Action	MAINTENANCE
Urgency of Action	PRIORITY 5
Purpose of Action	LEVEL 6
Violations	No violations recorded
<b>Roof Tank</b>	Does not exist
<b>Siamese Connection</b>	Inspected
Condition	2- Between Good and Fair
Deficiency	No deficiencies recorded
<b>Sprinkler Head</b>	Inspected
Condition	2- Between Good and Fair
Deficiency	DEFECTIVE/DETERIORATED
Deficiency Location/Instance	Gymnasium (obstructed, 3)
Deficiency Quantity	3
Quantity Uom	EACH
Potential Action	REPLACE
Urgency of Action	PRIORITY 5
Purpose of Action	LEVEL 6
Violations	No violations recorded
<b>Sprinkler Piping</b>	Inspected
Condition	1- Good
Deficiency	No deficiencies recorded
<b>Standpipe System</b>	Inspected
<b>Hose Valve Assembly</b>	Inspected
Condition	2- Between Good and Fair
Deficiency	No deficiencies recorded
<b>Piping</b>	Inspected
Condition	1- Good
Deficiency	No deficiencies recorded
<b>Water Gong</b>	Does not exist
<b>SWIMMING POOL</b>	Does not exist
<b>VENTILATION</b>	Inspected
Is the building Mechanically ventilated?	Yes
<b>Exhaust Fan</b>	Inspected
Condition	2- Between Good and Fair

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Question	Response
<b>VENTILATION</b>	
<b>Exhaust Fan</b>	
Approximate Total # of Fans	1-25
Deficiency	No deficiencies recorded
<b>Heating And Ventilating Unit</b>	Does not exist
<b>Metal Ductwork</b>	Inspected
Condition	1- Good
Are there any uninsulated ductwork by design in Mechanical rooms?	No
Are there chain operated dampers?	No
Deficiency	No deficiencies recorded
<b>Supply Fan</b>	Does not exist
<b>Unit Ventilator</b>	Does not exist