
LIST OF SCHEDULES

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1.1 Hydronic Boiler Schedule

Tag	BG-H805A	BG-H805B
Location	Chem. Bldg Mechanical Room	Chem. Bldg Mechanical Room
Type	Natural Gas Boiler	Natural Gas Boiler
Manufacturer	De Dietrich	De Dietrich
Model	GT 520	GT 520
Heating Input, kW (MBH)	1458 (4975)	1458 (4975)
Rated Heating Output, kW (MBH)	1239 (4229)	1239 (4229)
Efficiency	85%	85%
Operating Pressure, kPa (psi)	572 (83)	572 (83)
Fluid	50% E Glycol	50% E Glycol
EFT, °C (°F)	82 (180)	82 (180)
LFT, °C (°F)	67 (153)	67 (153)
Flow Rate, L/s (gpm)	23.7 (376.5)	23.7 (376.5)
Pressure Drop kPa (ft H ₂ O)	4.5 (1.5)	4.5 (1.5)
Electrical, V/ph/Hz	575/3/60	575/3/60
Motor Power, kW (hp)	2.24 (3)	2.24 (3)
Physical Data		
Overall Length, mm (in)	2350 (94)	2350 (94)
Overall Width, mm (in)	1175 (47)	1175 (47)
Overall Height, mm (in)	1650 (66)	1650 (66)
Operating Weight, kg (lbs)	4266 (9405)	4266 (9405)
Boiler Vent Connection mm (in)	400 (16)	400 (16)
Accessories & Remarks	Riello RM-130 modulating gas burner, AL29-4C HEPL2 chimney	Riello RM-130 modulating gas burner, AL29-4C HEPL2 chimney

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1.2 Steam Boiler Schedule

Tag	BLR-S704A	BLR-S705A
Location	Chem. Bldg Mechanical Room	Chem. Bldg Mechanical Room
Type	Multi water tube, once through, forced flow, steam boiler	Multi water tube, once through, forced flow, steam boiler
Manufacturer	MIURA	MIURA
Model	LXL-50SG	LXL-50SG
Horsepower Rating	50	50
Maximum Pressure, kPa (psi)	103 (15) Design	103 (15) Design
Operating Pressure, kPa (psi)	83 (12)	83 (12)
Equivalent Output, kg/hr (lb/hr)	782 (1,725)	782 (1,725)
Rated Heating Output, kW (MBH)	490 (1,674)	490 (1,674)
Heating Input, kW (MBH)	577 (1,970)	577 (1,970)
Efficiency	85%	85%
Heating Surface Area, m ² (sq ft)	17.8 (191)	17.8 (191)
Electrical, V/ph/Hz	575/3/60	575/3/60
Motor Power, kW (hp)	2.3 (3)	2.3 (3)
NG Consumption, Nm ³ /h (SCFH)	52.5 (1,960)	52.5 (1,960)
NG Supply Pressure, kPa (psi)	20.7-34.5 (3-5)	20.7-34.5 (3-5)
Flue Gas Volume, Nm ³ /h (SCFH)	741 (27,600) Wet 631 (23,600) Dry	741 (27,600) Wet 631 (23,600) Dry
Flue Gas Temperature, °C (°F)	230 (450)	230 (450)
Overall Length, mm (in)	2413 (95)	2413 (95)
Overall Width, mm (in)	1092 (43)	1092 (43)
Overall Height, mm (in)	2604 (102.5)	2604 (102.5)
Operating Weight, kg (lbs)	1686 (3710)	1686 (3710)
Accessories & Remarks	C/W Economizer, High water alarm, MIURA XJ1 micro computer boiler control system, MIURA online maintenance MOM) capability, Complete gas train, Steam separator, Automatic continuous surface blowdown, Fan and blower motor, CGA and CRN approvals, Factory tested, Manual bottom blowdown system.	

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1.3 Makeup Air Unit Schedule

Tag	MAU-H850	MAU-H851	MAU-H852
Location	Hypo Bldg Mezz.	Hypo Bldg Mezz.	Hypo Bldg. Mezz.
Area Served	Hypo Storage Tanks	Hypo Storage Tanks	Hypo Generator Rm
Type	Indoor Heat Recovery	Indoor Heat Recovery	Indoor Heat Recovery
Manufacturer	Circul-Aire	Circul-Aire	Circul-Aire
Model	TMP-40P-X2F1	TMP-120P-X2F1	TMP-25P-X2F1
Supply Fan	SF-H850A	SF-H851A	SF-H852A
Volume, L/s (cfm)	1887 (4000)	5660 (12000)	1038 (2200)
ESP, Pa (in.wg.)	250 (1.0)	250 (1.0)	188 (0.75)
Fan Type	DWDI-BI	PLENUM	DWDI-BI
Fan Speed, rpm	2711	1565	2635
Motor Power, kW (hp)	3.75(5.0)	11.2 (15.0)	1.5 (2.0)
Power Supply, V/ph/Hz	575-3-60	575-3-60	575-3-60
Exhaust Fan	EF-H850A	EF-H851A	EF-H852A
Volume, L/s (cfm)	1887 (4000)	5660 (12000)	1038 (2200)
ESP, Pa (in.wg.)	125 (0.5)	125 (0.5)	125 (0.5)
Fan Type	DWDI-BI	PLENUM	DWDI-BI
Speed, rpm	2593	1499	2500
Motor Power, kW (hp)	3.75(2.0)	7.5 (10.0)	1.12 (1.5)
Power Supply, V/ph/Hz	575-3-60	575-3-60	575-3-60
Heating Section	HC-H850A	HC-H851A	HC-H852A
Fluid	50% E. Glycol	50% E. Glycol	50% E. Glycol
EAT, °C (°F)	-9.3 (15.3)	-8.4 (16.9)	-10.5 (13.1)
LAT, °C (°F)	23.0 (73.5)	24.4 (76.0)	23.8 (74.8)
EWT, °C (°F)	82.2 (180)	82.2 (180)	82.2 (180)
LWT, °C (°F)	65.6 (150)	65.6 (150)	65.6 (150)
Capacity, kW (MBH)	73.9 (253)	225.5 (769)	43.2 (147)
Total Face Area, m ² (sq. ft.)	0.65 (7.0)	2.04 (22.0)	0.42 (4.5)
Max. Face Velocity, m/s (fpm)	2.9 (571.4)	2.7 (545.5)	2.4 (488.9)
Material, Header/Pipe/Fin	Cu/Al	Cu/Al	Cu/Al
Rows, High x Deep	2. 600x1050	2. 900x2200	2. 450x900

LIST OF SCHEDULES

Tag		MAU-H850	MAU-H851	MAU-H852
	Fin Spacing, fpi	8	8	8
	Max Tube PD, kPa (ft wg)	25.2 (8.43)	21.8 (7.30)	12.0 (4.03)
	Max Air PD, Pa (in wg)	64 (0.26)	59 (0.24)	64 (0.26)
Plate HX Section		HE-H850	HE-H851	HE-H852
Material		Aluminum	Aluminum	Aluminum
EAT, °C (°F)		-40 (40)	-40 (40)	-40 (40)
LAT, °C (°F)		-9.3 (15.3)	-8.4 (16.9)	-10.5 (13.1)
Face Areas, EA/OA, m ² (ft ²)		0.95 (10.2)/0.95 (10.2)	2.68 (28.8)/2.68 (28.8)	0.54 (5.81) /0.54 (5.81)
Surface Areas, EA/OA, m ² (ft ²)				
Face Velocities, EA/OA, m/s (fpm)		1.96 (386)/1.96 (386)	2.08 (409)/2.08 (409)	1.86 (366)/1.86 (366)
Max Air PDs, EA/OA, Pa (in.wg.)		178 (0.71)/178 (0.71)	222 (0.89)/222 (0.89)	220 (0.88)/220 (0.88)
Maximum Efficiency				
Minimum Circuit Ampacity				
Arrangement				
Supply Outlet		Top	Top (Angle)	Top
Return Inlet		Front Bottom	Front Bottom	Bottom
Outdoor Air Inlet		Back Bottom	Back Bottom	Back Bottom
Relief Air Outlet		Top	Top	Top
Physical Data				
Overall Length, mm		4623	4775	3759
Overall Width, mm		1321	2591	1397
Overall Height, mm		1981	2697	1828
Operating Weight, kg (lbs)		925(2040)	2576(5680)	676(1490)
Accessories & Remarks		Traversing Defrost System Inverter duty motor for supply fan	Traversing Defrost System Angled supply discharge as shown on drawing	Face & Bypass Defrost system Inverter duty motor for both supply and exhaust fans.

LIST OF SCHEDULES

Tag	MAU-H800A	MAU-H801A	MAU-H802A
Location	Chem. Bldg Platform.	Chem. Bldg Platform.	Chem. Bldg Platform.
Area Served	Ferric Chloride Tanks	Sulphuric Acid Tanks	Sodium Hydroxide
Type	Indoor Heat Recovery	Indoor Heat Recovery	Indoor Heat Recovery
Manufacturer	Circul Aire	Circul Aire	Circul Aire
Model	TMP-60P-X2F1	TMP-40P-X2F1	TMP-60P-X2F1
Supply Fan	SF-H800A	SF-H801A	SF-H802A
Volume, L/s (cfm)	2500 (5300)	1840 (3900)	2500 (5300)
ESP, Pa (in.wg.)	249 (1.00)	187 (0.75)	249 (1.00)
Fan Type	DWDI-BI	DWDI-BI	DWDI-BI
Fan Speed, rpm	2041	1778	2051
Motor Power, kW (hp)	3.73 (5)	2.24 (3)	3.73 (5)
Power Supply, V/ph/Hz	575-3-60	575-3-60	575-3-60
Minimum Outdoor Air, L/s (cfm)	625 (1325)	460 (975)	625 (1325)
Exhaust Fan	EF-H800A	EF-H801A	EF-H802A
Volume, L/s (cfm)	2500 (5300)	1660 (3510)	2500 (5300)
ESP, Pa (in.wg.)	187 (0.75)	187 (0.75)	187 (0.75)
Fan Type	DWDI-BI	DWDI-BI	DWDI-BI
Speed, rpm	1447	1293	1444
Motor Power, kW (hp)	2.24 (3)	1.5 (2)	2.24 (3)
Power Supply, V/ph/Hz	575-3-60	575-3-60	575-3-60
Heating Section			
Fluid	50% E. Glycol	50% E. Glycol	50% E. Glycol
EAT, °C (°F)	-10 (13.9)	-6.7 (19.9)	-7.2 (19.1)
LAT, °C (°F)	22.1 (72)	22 (71.6)	27 (80.6)
EWT, °C (°F)	82 (180)	82 (180)	82 (180)
LWT, °C (F)	65.5 (150)	65.5 (150)	65.5 (150)
Capacity, kW (MBH)	98.3 (335.6)	64.5 (220.2)	105.8 (361.3)
Total Face Area, m ² (sq. ft.)	0.93 (10)	0.65 (7)	0.93 (10)
Max. Face Velocity, m/s (fpm)	2.69 (530)	2.83 (557)	2.69 (530)
Material, Header/Pipe/Fin	Cu/Al	Cu/Al	Cu/Al
Rows, Fin High x Deep (in)	2, 24x60	2, 24x42	2, 24x60
Fin Spacing, fpi	9	10	8
Max Tube PD, kPa (ft wc)	13.2 (4.44)	11 (3.7)	13.5(4.51)
Max Air PD, Pa (in wc)	393 (1.58)	398 (1.60)	393 (1.58)

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Tag	MAU-H800A	MAU-H801A	MAU-H802A
Plate HX Section			
Material	Aluminum	Aluminum	Aluminum
EAT, °C (°F)	-40 (-40)	-40 (-40)	-40 (-40)
LAT, °C (°F)	-10 (13.9)	-6.7 (19.9)	-7.2 (19.1)
Face Areas, EA/OA, m ² (ft ²)			
Surface Areas, EA/OA, m ² (ft ²)			
Face Velocities, EA/OA, m/s	1.97 (387.9)/2.19 (431)	1.75 (343.5)/1.94 (382)	1.97 (387.9)/2.19 (431))
Max Air PDs, EA/OA, Pa	154 (0.62)/239 (0.96)	154 (0.62)/244 (0.98)	152 (0.61)/241 (0.97)
Maximum Efficiency			
Minimum Circuit Ampacity			
Arrangement			
Supply Outlet	Low Right Side	Low Right Side	Low Left Side
Return Inlet	Low Left Side	Low Left Side	Low Right Side
Outdoor Air Inlet	High Left Side	High Left Side	High Right Side
Exhaust Air Outlet	Top	Top	Top
Physical Data			
Overall Length, mm (in)	3607 (142)	3607 (142)	3607 (142)
Overall Width, mm (in)	1727 (68)	1448 (57)	1727 (68)
Overall Height, mm (in)	2133 (84)	2133 (84)	2133 (84)
Operating Weight, kg (lbs)	1818 (4000)	1682 (3700)	1818 (4000)
Remarks			

Accessories:

1. Motorized outside air intake damper (insulated).
2. MERV 6 prefilter.
3. Motorized exhaust air discharge damper (insulated).
4. Recirculation damper.
5. Condensation drain pipe complete with drain pan.
6. Unit mounted control panel.
7. Traversing defrost system.
8. MERV 6 winter filter.

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Tag	MAU-H804A		
Location	Chem. Bldg Platform.		
Area Served	Aqua Ammonia Tanks		
Type	Indoor Heat Recovery		
Manufacturer	Circul Aire		
Model	TMP-25P-X2F1		
Supply Fan	SF-H804A		
Volume, L/s (cfm)	1062 (2250)		
ESP, Pa (in.wg.)	187 (0.75)		
Fan Type	DWDI-BI		
Fan Speed, rpm	2049		
Motor Power, kW (hp)	1.1 (1.5)		
Power Supply, V/ph/Hz	575-3-60		
Minimum Outdoor Air, L/s (cfm)	625 (560)		
Exhaust Fan	EF-H804A		
Volume, L/s (cfm)	1062 (2250)		
ESP, Pa (in.wg.)	187 (0.75)		
Fan Type	DWDI-BI		
Speed, rpm	1869		
Motor Power, kW (hp)	1.1 (1.5)		
Power Supply, V/ph/Hz	575-3-60		
Heating Section			
Fluid	50% E. Glycol		
EAT, °C (°F)	-10.5 (13.1)		
LAT, °C (°F)	23.1 (73.5)		
EWT, °C (°F)	82 (180)		
LWT, °C (°F)	65.5 (150)		
Capacity, kW (MBH)	43.7 (149.1)		
Total Face Area, m ² (sq. ft.)	0.42 (4.5)		
Max. Face Velocity, m/s (fpm)	2.54 (500)		
Material, Header/Pipe/Fin	Cu/Al		
Rows, Fin High x Deep (in)	2, 18x36		
Fin Spacing, fpi	8		
Max Tube PD, kPa (ft wg)	14.6 (4.87)		
Max Air PD, Pa (in wg)	378 (1.52)		

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Tag	MAU-H804A		
Plate HX Section			
Material	Aluminum		
EAT, °C (°F)	-40 (-40)		
LAT, °C (°F)	-10.5 (13.1)		
Face Areas, EA/OA, m ² (ft ²)			
Surface Areas, EA/OA, m ² (ft ²)			
Face Velocities, EA/OA, m/s	1.76 (347)/1.94 (381)		
Max Air PDs, EA/OA, Pa (in.wg.)	149 (0.6)/229 (0.92)		
Maximum Efficiency			
Minimum Circuit Ampacity			
Arrangement			
Supply Outlet	Low Right Side		
Return Inlet	Low Left Side		
Outdoor Air Inlet	High Left Side		
Exhaust Air Outlet	Top		
Physical Data			
Overall Length, mm (in)	3251 (128)		
Overall Width, mm (in)	1270 (50)		
Overall Height, mm (in)	1879 (74)		
Operating Weight, kg (lbs)	1364 (3000)		
Remarks			

Accessories:

1. Motorized outside air intake damper (insulated).
2. MERV6 prefilter.
3. Motorized exhaust air discharge damper (insulated).
4. Recirculation damper.
5. Condensation drain pipe complete with drain pan.
6. Unit mounted control panel.
7. Traversing defrost system.
8. MERV6 winter filter.

LIST OF SCHEDULES

1.4 Air Handling Unit Schedule

Tag	AHU-H854	AHU-H803A	AHU-H828A
Location	Hypo Bldg Mezzanine	Chem. Bldg Electrical Room	Chem. Bldg Control Room
Area Served	Electrical Room	Electrical Room	Control Room
Type	Indoor	Indoor Air Purified	Indoor Air Purified
Manufacturer	McQuay	McQuay	McQuay
Model	CAH006GDAC	CAH0106DAM	CAH005GDAM
Supply Fan			
Volume, L/s (cfm)	1509 (3200)	2052 (4350)	943 (2000)
TSP, Pa (in wg)			
ESP, Pa (in.wg.)	250 (1.0)	249 (1.0)	249 (1.0)
Fan Type	Centrifugal FC 10"	Centrifugal FC 15"	Centrifugal FC 9.5"
Fan Speed, rpm	1881	1032	1703
Motor Power, kW (hp)	3.7 (5.0)	2.24 (3.0)	1.5 (2.0)
Power Supply, V/ph/Hz	575-3-60	575-3-60	575-3-60
Minimum Outdoor Air, L/s (cfm)	0(0)	0 (0)	189 (400)
Return Fan	N/A	N/A	N/A
Volume, L/s (cfm)	/	/	/
ESP, Pa (in.wg.)			
Fan Type			
Speed, rpm			
Motor Power, kW (hp)			
Power Supply, V/ph/Hz			
Heating Section	N/A	N/A	
Type	/	/	Electric SCR
Capacity, kW (MBH)			15 (51.2)
Electrical, V/ph/Hz			575-3-60
Temperature Rise, °C (°F)			13.3 (24)
DX Coil			
Size, H x L, mm	525 x 1125	750 x 1125	600 x 625
Face Area, m ² (ft ²)	0.61 (6.56)	0.87 (9.38)	0.39 (4.17)

LIST OF SCHEDULES

Tag	AHU-H854	AHU-H803A	AHU-H828A
Rows Deep / FPI	6 / 6	4 / 6	6 / 7
Face Velocity, m/s (fpm)	2.44 (488)	2.36 (464)	2.44 (480)
Air side PD, Pa (in.wg.)	210 (0.84)	120 (0.48)	129 (0.52)
Clg. Capacity, kW (TR)	34.6 (10)	36.1 (10.3)	15.66 (4.45)
EAT DB/WB, °C (°F)	28 (82) / 20 (68)	27.1/18.1 (80.8/64.6)	25.9/18.7 (78.6/65.7)
LAT DB/WB, °C (°F)	14 (58) / 13 (56)	14.7/12.9 (58.5/55.2)	14.8/13.9 (58.7/57.1)
Arrangement			
Supply Outlet	Top Horizontal	Top	Top
Return Inlet	Top	Top	Top
Outdoor Air Inlet	Back	Left Side	Right Side
Relief Air Outlet	N/A	N/A	N/A
Physical Data			
Overall Length, mm	2591	2750 (110)	3200 (128)
Overall Width, mm	1321	1450 (58)	950 (38)
Overall Height, mm	900	1000(40)	850 (34)
Operating Weight, kg (lbs)	599	659 (1449)	471 (1038)
SPL (dba) @ 3m all Freq.	80 max	80 max	80 max
Accessories & Remarks	C/W MERV 6 pre-filter, MERV 13 final filter, and premium efficiency	C/W MERV 6 pre-filter, MERV 13 final filter, and premium efficiency VFD rated motor	C/W MERV 6 pre-filter, MERV 13 final filter, and premium efficiency rated motor

LIST OF SCHEDULES

1.5 Supply Air Fan Schedule

Tag	SF-H831A		
Function	Chemical Building Mech. Room Ventilation & Combustion		
Location	Mechanical Room		
Type	Centrifugal Inline		
Volume, L/s (cfm)	1062 (2250)		
E.S.P., Pa (in.wg.)	250 (1.0)		
Fan Speed, rpm	1137		
Motor Power, kW (hp)	0.56 (0.75)		
Power Supply, V/ph/Hz	575-3-60		
Drive	Belt		
Arrangement			
Manufacturer	Greenheck		
Model	BSQ-180HP-7		
Control	On/Off		
Accessories & Remarks	1-11		

Accessories:

1. Galvanized steel housing
2. Backward inclined aluminum wheel
3. Static free belts
4. Two bolted access panels
5. Integral duct connections
6. Ball bearing motors
7. Adjustable motor pulley and plate
8. Galvanized motor cover
9. Bearings with grease fittings
10. Spring hanging isolators and brackets
11. Corrosion resistant Fasteners

LIST OF SCHEDULES

1.6 Exhaust Air Fan Schedule

Tag	EF-H818B	EF-H819B	EF-H820C
Function	Chemical Building Rail Car Enclosure Ventilation	Chemical Building Rail Car Enclosure Ventilation	Chemical Building Mech. Room Emergency Relief
Location	Rail Car Enclosure	Rail Car Enclosure	Aqua Ammonia Room
Type	Vaneaxial Roof Exhaust	Vaneaxial Roof Exhaust	Vaneaxial Roof Exhaust
Volume, L/s (cfm)	1982 (4200)	1982 (4200)	1062 (2250)
E.S.P., Pa (in.wg.)	63 (0.25)	63 (0.25)	125 (0.5)
Fan Speed, rpm	1480	1480	1551
Motor Power, kW (hp)	0.75 (1.0)	0.75 (1.0)	0.37 (0.5)
Power Supply, V/ph/Hz	575-3-60	575-3-60	575-3-60
Drive	Belt	Belt	Belt
Arrangement	9	9	9
Manufacturer	Northern Blower	Northern Blower	Northern Blower
Model/Size	7412/1825	7412/1825	7412/1500
Control	On/Off	On/Off	On/Off
Weight, kg (lbs)	114 (250)	114 (250)	114 (250)
Accessories & Remarks	1-12	1-12	1-12

Accessories :

1. Galvanized Steel case
2. Gasketed bolted access door
3. Square mounting Curb Base
4. Weather Hood
5. Jack Screw Motor Base
6. Extended grease fittings
7. Nylon Bushings
8. Fan base and vibration isolators
9. Weatherproof motor
10. Drive cover
11. Shaft seal
12. Motorized Damper

LIST OF SCHEDULES

Tag	EF-H821C	EF-H824C	EF-H825C
Function	Chemical Building Mech. Room Emergency Relief	Chemical Building Mech. Room Emergency Relief	Chemical Building Mech. Room Emergency Relief
Location	Sodium Hydroxide Room	Sulphuric Acid Room	Ferric Chloride Room
Type	Vaneaxial Roof Exhaust	Vaneaxial Roof Exhaust	Vaneaxial Roof Exhaust
Volume, L/s (cfm)	2501 (5300)	1840 (3900)	2501 (5300)
E.S.P., Pa (in.wg.)	125 (0.5)	125 (0.5)	125 (0.5)
Fan Speed, rpm	1455	1384	1455
Motor Power, kW (hp)	1.12 (1.5)	0.75 (1.0)	1.12 (1.5)
Power Supply, V/ph/Hz	575-3-60	575-3-60	575-3-60
Drive	Belt	Belt	Belt
Arrangement	9	9	9
Manufacturer	Northern Blower	Northern Blower	Northern Blower
Model/Size	7412/2000	7412/1825	7412/2000
Control	On/Off	On/Off	On/Off
Weight, kg (lbs)	159 (350)	114 (250)	159 (350)
Accessories & Remarks	1-12	1-12	1-12

Accessories :

1. Galvanized Steel case
2. Gasketed bolted access door
3. Square mounting Curb Base
4. Weather Hood
5. Jack Screw Motor Base
6. Extended grease fittings
7. Nylon Bushings
8. Fan base and vibration isolators
9. Weatherproof motor
10. Drive cover
11. Shaft seal
12. Motorized Damper

LIST OF SCHEDULES

Tag	EF-H829A	EF-H853	CF-H855 to CF-H859
Function	Chemical Building Electrical & Control Room Exhaust	Hypochlorite Generator Room Heat Relief	Hypochlorite Storage Area Ventilation
Location	Wash Room	Mezzanine	Hypo. Storage Room
Type	Centrifugal Exhaust	Airfoil Single Width	Industrial Ceiling Fan
Volume, L/s (cfm)	90 (190)	4717 (10000)	20519 (43500)
E.S.P., Pa (in.wg.)	93 (0.375)	250 (1.0)	NA
Fan Speed, rpm	730	1086	330
Motor Power, kW (hp)	0.127 (0.17)	3.7 (5.0)	0.086
Power Supply, V/ph/Hz	115-1-60	575-3-60	115-1-60
Drive	Direct	Belt	Direct
Arrangement		10	NA
Manufacturer	Broan	Greenheck	Environfan
Model	L200MG	27-AFSW-41	190A-7
Control	On/Off Activation with WR light switch	VFD	SS Speed control 105F with 108C reversing switch
Weight, kg (lbs)	10.8 (23.9)		
Accessories & Remarks		1-6,8,9	

Accessories:

1. Gasketed bolted access door
2. Housing drain with plug
3. Totally enclosed belt guard
4. Shaft and bearing guard
5. Extended grease fittings
6. Fan base and vibration isolators
7. Weatherproof motor
8. Drive cover
9. Shaft seal

LIST OF SCHEDULES

1.7 Ductwork Schedule

Area Served	Systems	Service	Section	SMACNA Duct Construction Criteria			Remarks
				Pressure Class	Materials of Construction	Seal Class	
Ferric Chloride Area	MAU-H800A, EF-H825C	Supply Air	All	750	Galvanized	C	
		Exhaust Air	All	-500	Galvanized	C	
Sulphuric Acid Area	MAU-H801A, EF-H824C	Supply Air	All	750	Galvanized	C	
		Exhaust Air	All	-500	Galvanized	C	
Sodium Hydroxide Area	MAU-H802A, EF-H821C	Supply Air	All	750	Galvanized	C	
		Exhaust Air	All	-500	Galvanized	C	
Aqua Ammonia Area	MAU-H804A, EF-H820C	Supply Air	All	750	Galvanized	C	
		Exhaust Air	All	-500	Galvanized	C	
Hypochlorite Area	MAU-H850, MAU-H851	Supply Air	All	750	Galvanized	C	
		Exhaust Air	All	-500	Galvanized	C	
Hypochlorite Generator Room	MAU-H852 EF-H853	Supply Air	All	750	Galvanized	C	
		Exhaust Air	All	-500	Galvanized	C	
Railcar Shelter	EF-H818B, EF-H819B	Exhaust Air	All	-500	Galvanized	C	
Electrical Rooms	AHU-H803A, AHU-H854	Supply Air	All	750	Galvanized	C	
		Return Air	All	-500	Galvanized	C	
	EF-H829A	Exhaust Air	All	-500	Galvanized	C	
Mechanical Room	SF-H831A	Supply Air	All	750	Galvanized	C	
		Exhaust Air	All	-500	Galvanized	C	
Control Room	AHU-H828A	Supply Air	All	750	Galvanized	C	
		Return Air	All	-500	Galvanized	C	
	EF-H829A	Exhaust Air	All	-500	Galvanized	C	
Washroom	EF-H829A	Exhaust Air	All	-500	Galvanized	C	

LIST OF SCHEDULES

1.8 Electric Unit Heater Schedule

Tag	EHU-H830A	EHU-H870	EHU-H871
Location	Bulk Chemical Electrical Room	Hypochlorite Building, Generator Room	Hypochlorite Building, Electrical Room
Type	Electric Forced Air	Electric Forced Air	Electric Forced Air
Capacity, kW (MBH)	7.5 (25.6)	5.0 (17.1)	5.0 (17.1)
Temperature Rise, °C (°F)	24 (43)	22 (40)	22 (40)
Air Flow, L/s (cfm)	278 (590)	227 (480)	227 (480)
Motor Speed, rpm	1550	1550	1550
Motor Power, kW (hp)	0.037 (1/20)	0.037 (1/20)	0.037 (1/20)
Power Supply, V/ph/Hz	575-3-60	600-3-60	600-3-60
Manufacturer	Reznor	Reznor	Reznor
Model	EGE	EGE	EGE
Accessories & Remarks	Complete with: - Wall Bracket - Thermostat Kit (5°C to 38°C)	Complete with: - Wall Bracket - Thermostat Kit (5°C to 38°C)	Complete with: - Wall Bracket - Thermostat Kit (5°C to 38°C)

LIST OF SCHEDULES

1.9 Electric Radiant Heater Schedule

Tag	ERH-H850A	ERH-H851A,B,C	ERH-H852A
Location	MAU-H850 Air Intake Plenum	MAU-H851 Air Intake Plenum	MAU-H852 Air Intake Plenum
Type	Single Quartz Tube Element	Single Quartz Tube Element	Single Quartz Tube Element
Capacity, kW (MBH)	2.0 (6.82)	2.0 (6.82)	2.0 (6.82)
Power Supply, V-ph-Hz	575-1-60	575-1-60	575-1-60
Overall Length, mm	1105	1105	1105
Heated length, mm	813	813	813
Manufacturer	CCI Thermal	CCI Thermal	CCI Thermal
Model	OKB412C6	OKB412C6	OKB412C6
Accessories & Remarks	Complete with: -Mounting Bracket	Complete with: -Mounting Bracket	Complete with: -Mounting Bracket

LIST OF SCHEDULES

Tag	ERH-H854A		
Location	AHU-H850 Air Intake Plenum		
Type	Single Quartz Tube Element		
Capacity, kW (MBH)	2.0 (6.82)		
Power Supply, V-ph-Hz	575-1-60		
Overall Length, mm	1105		
Heated length, mm	813		
Manufacturer	CCI Thermal		
Model	OKB412C6		
Accessories & Remarks	Complete with: -Mounting Bracket		

LIST OF SCHEDULES

1.10 Hydronic Unit Heater Schedule

Tag	UH-H820A	UH-H821A	UH-H822A	UH-H823A	UH-H824A
Location	Aqua Ammonia Room Emergency	Sodium Hydroxide Room Emergency	Stair Well	Mechanical Room Emergency	Sulphuric Acid Room Emergency
Fluid	50% Glycol	50% Glycol	50% Glycol	50% Glycol	50% Glycol
Capacity, kW (MBH)	45.7 (156)	80 (273)	8.35 (28.5)	80 (273)	65.6 (224)
Entering Fluid Temp., °C (°F)	82 (180)	82 (180)	82 (180)	82 (180)	82 (180)
Leaving Fluid Temp., °C (°F)	65.5 (150)	65.5 (150)	65.5 (150)	65.5 (150)	65.5 (150)
Design Flow, L/s (USgpm)	0.6 (9.5)	1.05 (16.7)	0.11 (1.8)	1.05 (16.7)	0.86 (13.7)
Fluid P.D., kPa (ft. wg)	4.1 (1.37)	3.98 (1.33)	4.1 (1.37)	3.98 (1.33)	5.44 (1.82)
Air Flow, L/s (cfm)	1368 (2900)	2421 (5130)	85 (180)	2421 (5130)	2030 (4300)
Fan Speed, rpm	1075	1075	1080/850/650	1075	1075
Motor Power, W (hp)	186 (0.25)	373 (0.5)	70 (0.1)	373 (0.5)	373 (0.5)
Power Supply, V/ph/Hz	115/1/60	208/3/60	115/1/60	208/3/60	208/3/60
Arrangement	Horizontal	Horizontal	RW270-02	Horizontal	Horizontal
Manufacturer	Rittling	Rittling	Rittling	Rittling	Rittling
Model	RH-193	RH-340	Cabinet 04	RH-340	RH-290
Accessories & Remarks	Line voltage thermostat Diffuser blades	Line voltage thermostat Diffuser blades	Three speed control with thermostats	Line voltage thermostat Diffuser blades	Line voltage thermostat Diffuser blades

LIST OF SCHEDULES

Tag	UH-H825A	UH-H833A	UH-H834A	UH-H835A	UH-H836A
Location	Ferric Chloride Room Emergency	Ferric Chloride Room Space Heater	Ferric Chloride Room Space Heater	Sulphuric Acid Room Space Heater	Mechanical Room
Fluid	50% Glycol	50% Glycol	50% Glycol	50% Glycol	50% Glycol
Capacity, kW (MBH)	80 (273)	80 (273)	39.7 (135.4)	65.6 (224)	80 (273)
Entering Fluid Temp., °C (°F)	82 (180)	82 (180)	82 (180)	82 (180)	82 (180)
Leaving Fluid Temp., °C (°F)	65.5 (150)	65.5 (150)	65.5 (150)	65.5 (150)	65.5 (150)
Design Flow, L/s (USgpm)	1.05 (16.7)	1.05 (16.7)	0.54 (8.6)	0.86 (13.7)	1.05 (16.7)
Fluid P.D., kPa (ft. wg)	3.98 (1.33)	3.98 (1.33)	7.8 (2.62)	5.44 (1.82)	3.98 (1.33)
Air Flow, L/s (cfm)	2421 (5130)	2421 (5130)	481 (1020)	2030 (4300)	2421 (5130)
Fan Speed, rpm	1075	1075	1180/950/700	1075	1075
Motor Power, W (hp)	373 (0.5)	373 (0.5)	240 (0.32)	373 (0.5)	373 (0.5)
Power Supply, V/ph/Hz	208/3/60	208/3/60	115/1/60	208/3/60	208/3/60
Arrangement	Horizontal	Horizontal	Cabinet 04	Horizontal	Horizontal
Manufacturer	Rittling	Rittling	Rittling	Rittling	Rittling
Model	RH-340	RH-340	RF200-12	RH-290	RH-340
Accessories & Remarks	Line voltage thermostat Diffuser blades	Line voltage thermostat Diffuser blades	Three speed control with thermostats	Line voltage thermostat Diffuser blades	Line voltage thermostat Diffuser blades

LIST OF SCHEDULES

Tag	UH-H837A	UH-H838A	UH-H839A		
Location	Mechanical Room	Chemical Building Space Heater	Aqua Ammonia Room		
Fluid	50% Glycol	50% Glycol	50% Glycol		
Capacity, kW (MBH)	45.7 (156)	80 (273)	45.7 (156)		
Entering Fluid Temp., °C (°F)	82 (180)	82 (180)	82 (180)		
Leaving Fluid Temp., °C (°F)	65.5 (150)	65.5 (150)	65.5 (150)		
Design Flow, L/s (USgpm)	0.6 (9.5)	1.05 (16.7)	0.6 (9.5)		
Fluid P.D., kPa (ft. wg)	4.1 (1.37)	3.98 (1.33)	4.1 (1.37)		
Air Flow, L/s (cfm)	1368 (2900)	2421 (5130)	1368 (2900)		
Fan Speed, rpm	1075	1075	1075		
Motor Power, W (hp)	186 (0.25)	373 (0.5)	186 (0.25)		
Power Supply, V/ph/Hz	115/1/60	208/3/60	115/1/60		
Arrangement	Horizontal	Horizontal	Horizontal		
Manufacturer	Rittling	Rittling	Rittling		
Model	RH-193	RH-340	RH-193		
Accessories & Remarks	Line voltage thermostat Diffuser blades	Line voltage thermostat Diffuser blades	Line voltage thermostat Diffuser blades		

LIST OF SCHEDULES

Tag	UH-H860	UH-H861	UH-H862	UH-H863	UH-H864
Location	Hypochl. Storage Tanks	Hypochl. Storage Tanks	Hypochl. Storage Tanks	Water Softener Area	Mezzanine Level
Fluid	50% E. Glycol	50% E. Glycol	50% E. Glycol	50% E. Glycol	50% E. Glycol
Capacity, kW (MBH)	17 (58)	9.8 (33.3)	17 (58)	17 (58)	9.8 (33.3)
Entering Fluid Temp., °C (°F)	82.2 (180)	82.2 (180)	82.2 (180)	82.2 (180)	82.2 (180)
Leaving Fluid Temp., °C (°F)	65.6 (150)	65.6 (150)	65.6 (150)	65.6 (150)	65.6 (150)
Design Flow, L/s (USgpm)	0.29 (4.58)	0.17 (2.63)	0.29 (4.58)	0.29 (4.58)	0.17 (2.63)
Fluid P.D., kPa (ft. wg)	0.81 (0.27)	0.45 (0.15)	0.81 (0.27)	0.81 (0.27)	0.45 (0.15)
Air Flow, L/s (cfm)	731 (1550)	528 (1120)	731 (1550)	731 (1550)	528 (1120)
Fan Speed, rpm	1075	1550	1075	1075	1550
Motor Power, W (hp)	93 (1/8)	75 (1/10)	93 (1/8)	93 (1/8)	75 (1/10)
Power Supply, V/ph/Hz	115-1-60	115-1-60	115-1-60	115-1-60	115-1-60
Arrangement	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal
Manufacturer	Rittling	Rittling	Rittling	Rittling	Rittling
Model	RH-108	RH-63	RH-108	RH-108	RH-63
Accessories & Remarks	Line voltage thermostat Diffuser blades	Line voltage thermostat Diffuser blades	Line voltage thermostat Diffuser blades	Line voltage thermostat Diffuser blades	Line voltage thermostat Diffuser blades

LIST OF SCHEDULES

Tag	UH-H865				
Location	Hypochl. Storage Tanks				
Fluid	50% E. Glycol				
Capacity, kW (MBH)	96.4 (329)				
Entering Fluid Temp., °C (°F)	82.2 (180)				
Leaving Fluid Temp., °C (°F)	65.6 (150)				
Design Flow, L/s (USgpm)	1.64 (26)				
Fluid P.D., kPa (ft. wg)	2.3 (0.15)				
Air Flow, L/s (cfm)	5825 (12,350)				
Fan Speed, rpm	1140				
Motor Power, W (hp)	1500 (2)				
Power Supply, V/ph/Hz	575-3-60				
Arrangement	Vertical				
Manufacturer	Rittling				
Model	RV-610				
Accessories & Remarks	Line voltage thermostat Cone Jet				

LIST OF SCHEDULES

1.11 Air Compressor Schedule

Tag	CMP-S815A	CMP-S816A
Location	Chemical Building Mechanical Room	Chemical Building Mechanical Room
Service	Unloading	Unloading
Type	Oil Free Scroll	Oil Free Scroll
Capacity @ 800 kPa, L/s (cfm)	10 (22)	10 (22)
Motor Power, kW (hp)	6 (8)	6 (8)
Power Supply, V/ph/Hz	575/3/60	575/3/60
Manufacturer	Atlas Copco	Atlas Copco
Model	SF6	SF6
Dimensions, mm	1450x750x1040	1450x750x1040
Operating Weight, kg (lbs)	340 (748)	340 (748)
Accessories & Remarks		

LIST OF SCHEDULES

1.12 Air Dryer Schedule

Tag	AD-S815A	AD-S816A
Location	Chemical Building Mechanical Room	Chemical Building Mechanical Room
Service	Unloading	Unloading
Type	Heatless Adsorption	Heatless Adsorption
Capacity @ 1100 kPa, L/s (cfm)	11.8 (25)	11.8 (25)
Nominal Pressure Dew Point C° (F°)	-4 (-20)	-4 (-20)
Possible Dew Point C° (F°)	-40 (-40)	-40 (-40)
Manufacturer	Atlas Copco	Atlas Copco
Model	CD12	CD12
Dimensions, mm	290x176x855	290x176x855
Operating Weight, kg (lbs)	27 (60)	27 (60)
Accessories & Remarks		

LIST OF SCHEDULES

1.13 Tank Schedule

Tag	GFT-H815A	ETNK-H815B	CFR-H815C
Service	Heating	Heating	Heating
Location	Mechanical Room	Mechanical Room	Mechanical Room
Type	Vertical	Vertical	Vertical
Capacity, L (USgal)	180 (48)	100 (264)	20 (5)
Diameter, mm (in)	610 (24)	914 (36)	250 (10)
Height/Length, mm (in)	1245 (49)	1867 (73.5)	750 (30)
Manufacturer	Axiom Industries Ltd	Armstrong	Neptune
Model	SF100	1000-L	DBF-5HP
Accessories & Remarks	Set to 138 kPa (20 psig)		

LIST OF SCHEDULES

Tag	ETNK-H815D		
Service	DHW		
Location	Mechanical Room		
Type			
Capacity, L (USgal)	38.9 (10.3)		
Diameter, mm (in)	390.5 (15 3/8)		
Height/Length, mm (in)	488.9 (19 1/4)		
Manufacturer	Amtrol		
Model	Therm-X-Trol ST-25V		
Accessories & Remarks			

LIST OF SCHEDULES

1.14 Plate Heat Exchanger Schedule

Tag	HEX-H806A	HEX-H806B	HEX-H814A
Service	Process Water	Process Water	Domestic Hot Water
Location	Mechanical Room	Mechanical Room	Mechanical Room
Primary			
Fluid	50% Et Glycol	50% Et Glycol	50% Et Glycol
Flow Rate l/sec (usgpm)	4.7 (74.89)	4.7 (74.89)	6 (94.62)
Inlet Temperature °C (F)	82 (180)	82 (180)	82 (180)
Outlet Temperature °C (F)	65.5 (150)	65.5 (150)	65.5 (150)
Pressure Drop kPa (PSI)	55.6 (8.07)	55.6 (8.07)	62.4 (9.05)
Secondary			
Flow Rate l/sec (usgpm)	4.4 (70)	4.4 (70)	1.6 (25)
Inlet Temperature °C (F)	1 (32)	1 (32)	4 (40)
Outlet Temperature °C (F)	15.5 (60)	15.5 (60)	60 (140)
Pressure Drop kPa (PSI)	49.4 (7.17)	49.4 (7.17)	5.4 (0.78)
Dimensions			
Height, mm	1875 (75)	1875 (75)	1875 (75)
Length, mm	2000(80)	2000(80)	2000(80)
width, mm	500 (20)	500 (20)	500 (20)
Electrical, V/ph/Hz	575/3/60	575/3/60	575/3/60
Motor Power, kW (hp)			
Primary	1.5 (2)	1.5 (2)	2.25 (3)
Secondary	-	-	0.75 (1)
Manufacturer	ITT	ITT	ITT
Model	P14-15-TK	P14-15-TK	P14-22-TKTM79
Accessories & Remarks	Skid mounted packaged plate heat exchangers complete with strainers, isolation valves, three port mixing valve, integral controls and panel and primary side circulation pump. Domestic hot water heat exchanger to have a circulation pump suitable for domestic water usage on the secondary side of the heat exchanger in addition to the foregoing.		

LIST OF SCHEDULES

1.15 Pump Schedule

Tag	GP-H808A & GP-H808B	GP-H810A & GP-H811A	GP-H812A & GP-H812B
Function	Glycol Hot Water Circulation Pump Duty/Stand-by	Chemical Building Heating Circulation Pump Duty/Stand-by	Hypo Building Heating Circulation Pump Duty/Stand-by
Location	Chemical Building Mechanical Room	Chemical Building Mechanical Room	Chemical Building Mechanical Room
Type	End Suction	End Suction	End Suction
Impeller	6.75"	8"	7.875"
Casing	Cast Iron	Cast Iron	Cast Iron
Fluid Pumped	50% Ethylene Glycol	50% Ethylene Glycol	50% Ethylene Glycol
Design Pressure, Pa (psi)			
Max. Operating Temp., °C (°F)	82 (180)	82 (180)	82 (180)
Pump Speed, rpm	1750	1750	1750
Design Flow Rate, L/s (US gpm)	17.8 (377)	12.0 (254)	6.52 (138)
Discharge Head, kPa (ft. wg)	89.6 (30)	155.3 (52)	173.2 (58)
Suction/Discharge Sizes, mm	150/125	75/65	65/50
Motor Power, kW (hp)	5.6 (7.5)	5.6 (7.5)	3.7 (5)
Power Supply, V/ph/Hz	575/3/60	575/3/60	575/3/60
Manufacturer	Bell & Gossett	Bell & Gossett	Bell & Gossett
Model	1510-5AC	1510-2-½BB	1510-2BC

LIST OF SCHEDULES

1.16 Booster Pump Schedule

Tag	P-H885A, P-H885B, P-H885C
Location	Hypochlorite Generator Building – Water Softener Area
Area Served	Hypochlorite Generator
Type	Triplex, 2 duty, 1 standby
Flow Rate, each pump	2.27 L/s
Pump Head	31.7m
Pumped Fluid	Separated Potable Water
Suction Pressure	206 kPa
Pump Discharge Pressure	483 kPa
Pump Casing Design	1207 kPa
Motor Power	3.73 kW
Motor Speed	3500 rpm
Power	575v - 3ph
Pump Speed Control	Constant
Suction Connection Size	75mm
Discharge Connection Size	75mm
Pump Manufacturer / Model	S.A. Armstrong / 4380-1.5x1.5x6
Pressurized Tank Capacity	500 Liters
Pressurized Tank Dimensions	762mm dia. x 1448mm Height
System Manufacturer /	S.A. Armstrong, Series 6700 HydroPak
Remarks	

LIST OF SCHEDULES

1.17 Fan Coil Unit Schedule

Tag	FC-H840	FC-H890
Location	Bridge	Link Way
Area Served	Bridge	Link Way
Type	Indoor	Indoor
Manufacturer	Engineered Air	Engineered Air
Model	JM700	JM700
Supply Fan		
Tag	SF-H840A	SF-H890A
Volume, L/s (cfm)	296 (628)	189 (400)
ESP, Pa (in.wg.)	188 (0.75)	188 (0.75)
Fan Type	DWDI FC7-5	DWDI FC7-5
Fan Speed, rpm	2100	1850
Motor Power, kW (hp)	0.375 (0.5)	0.375 (0.5)
Power Supply	115-1-60	115-1-60
Heating Section		
Tag	HC-H840A	HC-H890A
Capacity, kW (MBH)	25 (85.3)	15.3 (52.1)
EAT, °C (°F)	-40 (-40)	-40 (-40)
LAT, °C (°F)	80.6 (27)	80.6 (27)
EWT, °C (°F)	82.2 (180)	82.2 (180)
Heating Medium	50% E. Glycol	50% E. Glycol
Total Face Area, m ² (sq.	0.14 (1.46)	0.14 (1.46)
Max. Face Velocity, m/s	2.4 (430)	1.9 (273)
Material, Header/Pipe/Fin	Cu/Al	Cu/Al
Rows, High x Deep	3. 375x300	3. 375x300
Fin Spacing, fpi	10	10
Max Tube PD, kPa (ft)	5.9 (1.96)	4.2 (1.41)
Max Air PD, Pa (in wg)	45 (0.18)	45 (0.18)
Arrangement		
Supply Outlet	Top Horizontal	Top Horizontal
Return Inlet	---	---
Outdoor Air Inlet	Back	Back
Relief Air Outlet	---	---
Physical Data		
Overall Length, mm	820	820
Overall Width, mm	584	584
Overall Height, mm	457	457
Overall Weight, kg (lbs)	73(160)	73(160)

LIST OF SCHEDULES

1.18 Air Cooled Condensing Unit Schedule

Tag	CU-H854	CU-H803A	CU-H828A
Service	AHU-H854	AHU-H803A	AHU-H828A
Location	On Grade	On Roof	On Roof
Refrigerant	R407	R407	R407
Capacity, kW (MBH)	36.3 (123.9)	36.3 (123.9)	15.7 (53.6)
Minimum EER	12	12	12
Ambient Temperature, °C (°F)	35 (95)	35 (95)	35 (95)
Suction Temperature, °C (°F)	5.1 (41.2)	5.1 (41.2)	8.9 (48)
Electrical Data			
Full load Amps (FLA)	15	15	6
Min. Circuit Amps (MCA)	18	18	8
Max . Overcurrent (MOP)	30	30	15
Compressor			
Quantity	2	2	1
R.L.A.	12.1	12.1	5.1
Condenser Motor			
Power, kW (hp)	0.56 (0.75)	0.56 (0.75)	0.25 (0.33)
F.L.A.	2.8	2.8	1.4
Electrical (V/ph/Hz)	575-3-60	575-3-60	575-3-60
Manufacturer	Aaon	Aaon	Aaon
Model	CA-10-4	CA-10-4	CA-04-4
Operating Weight, kg (lbs)	353 (779)	353 (779)	127 (279)
Remarks	c/w Hail Guards and Hot Gas By-pass Control Circuit Transformer	c/w Hail Guards and Hot Gas By-pass	c/w Hail Guards and Hot Gas By-pass

LIST OF SCHEDULES

1.19 Motorised Damper Schedule

Tag	MD-H800C	MD-H801C	MD-H802C	MD-H803C
Service	Emergency Intake	Emergency Intake	Emergency Intake	Relief Air
Location	Ferric Chloride Room Louver	Sulphuric Acid Room Louver	Sodium Hydroxide Room Louver	Electrical Room Relief Duct
Damper size mm (in)	1200x800 (48x32)	950x800 (38x32)	1200x800 (48x32)	600x600 (24x24)
Number of dampers	2	2	2	1
Model	9000 BF Series	9000 BF Series	9000 BF Series	9000 BF Series
Manufacturer	TAMCO	TAMCO	TAMCO	TAMCO
Control	On-Off	On-Off	On-Off	Modulating
Fail Safe State	Open	Open	Open	Closed
Actuator	Belimo AF120(-S) US	Belimo AF120(-S) US	Belimo AF120(-S) US	Belimo AF120(-S) US
Number of actuators	2	1	2	1
Accessories & Remarks	Outside air damper	Outside air damper With Horizontal Jackshafts	Outside air damper	Relief air damper

Tag	MD-H804C	MD-H816A	MD-H817A	MD-H818A
Service	Emergency Intake	Ventilation Intake	Ventilation Intake	Ventilation Exhaust
Location	Aqua Ammonia Room Louver	Rail Car Enclosure Louver	Rail Car Enclosure Louver	Rail Car Enclosure Exhaust Fan
Damper size mm (in)	900x750 (36x30)	900x900 (36x36)	900x900 (36x36)	600x600 (24x24)
Number of dampers	1	2	2	1
Model	9000 BF Series	9000 BF Series	9000 BF Series	9000 BF Series
Manufacturer	TAMCO	TAMCO	TAMCO	TAMCO
Control	On-Off	On-Off	On-Off	On-Off
Fail Safe State	Open	Closed	Closed	Closed
Actuator	Belimo AF120(-S) US	Belimo AF120(-S) US	Belimo AF120(-S) US	Belimo AF120(-S) US
Number of actuators	1	2	2	1
Accessories & Remarks	Outside air damper	Outside air damper	Outside air damper	Exhaust air damper

LIST OF SCHEDULES

Tag	MD-H819A	MD-H820B	MD-H821B	MD-H824B
Service	Ventilation Exhaust	Emergency Exhaust	Emergency Exhaust	Emergency Exhaust
Location	Rail Car Enclosure Exhaust Fan	Aqua Ammonia Exhaust Fan	Sodium Hydroxide Exhaust Fan	Sulphuric Acid Exhaust Fan
Damper size mm (in)	600x600 (24x24)	450x450 (18x18)	600x600 (24x24)	600x600 (24x24)
Number of dampers	1	1	1	1
Model	9000 BF Series	9000 BF Series	9000 BF Series	9000 BF Series
Manufacturer	TAMCO	TAMCO	TAMCO	TAMCO
Control	On-Off	On-Off	On-Off	On-Off
Fail Safe State	Closed	Open	Open	Open
Actuator	Belimo AF120(-S) US	Belimo AF120-S	Belimo AF120-S	Belimo AF120-S
Number of actuators	1	1	1	1
Accessories & Remarks	Exhaust air damper	Exhaust air damper	Exhaust air damper	Exhaust air damper

Tag	MD-H825B	MD-H828C	MD-H829B	MD-H831B
Service	Emergency Exhaust	Relief Air	Ventilation Intake	Ventilation Intake
Location	Ferric Chloride Exhaust Fan	Control Room Relief Duct	Upper Level Exhaust Fan	Mechanical Room Louver
Damper size mm (in)	600x600 (24x24)	450x450 (18x18)	300x300 (12x12)	1050x800 (42x32)
Number of dampers	1	1	1	1
Model	9000 BF Series	9000 BF Series	9000 BF Series	9000 BF Series
Manufacturer	TAMCO	TAMCO	TAMCO	TAMCO
Control	On-Off	Modulating	On-Off	On-Off
Fail Safe State	Open	Closed	Open	Open
Actuator	Belimo AF120(-S) US	Belimo AF120(-S) US	Belimo AF120(-S) US	Belimo AF120(-S) US
Number of actuators	1	1	1	1
Accessories & Remarks	Exhaust air damper	Relief air damper	Exhaust air damper	Outside air damper

LIST OF SCHEDULES

Tag	MD-H842	MD-H880	MD-H881	MD-H882
Service	Outside Air Intake	Ventilation Exhaust	Room Air for Blowers	Outside Air Intake
Location	Bridge	Hypochlorite Building Mezzanine Level	Hypochlorite Building Mezzanine Level	Hypochlorite Storage Room
Damper size mm (in)	500x500 (20x20)	550x450 (22x18)	800x750 (32x30)	1400x1200 (56x48)
Number of dampers	1	1	1	1
Model	9000 BF Series	9000 BF Series	1000 BF Series	9000 BF Series
Manufacturer	TAMCO	TAMCO	TAMCO	TAMCO
Control	On-Off	On-Off	On-Off	On-Off
Fail Safe State	Closed	Closed	Open	Closed
Actuator	Belimo LF-120	Belimo LF-120	Belimo NF-120	Belimo AF-120
Number of actuators	1	1	1	1
Accessories & Remarks	Spring Return, Auxiliary End Switches	Spring Return, Auxiliary End Switches	Spring Return, Auxiliary End Switches	Spring Return, Auxiliary End Switches

Tag	MD-H883	MD-H884	MD-H892	
Service	Heat Relief Exhaust	Outside Air Intake	Outside Air Intake	
Location	Hypochlorite Building Mezzanine Level	Hypochlorite Building Mezzanine Level	Hypochlorite Building Mezzanine Level	
Damper size mm (in)	900x750 (36x30)	2400x1800 (96x72)	300x150 (12x6)	
Number of dampers	1	1	1	
Model	9000 BF Series	9000 BF Series	9000 BF Series	
Manufacturer	TAMCO	TAMCO	TAMCO	
Control	On-Off	On-Off	On-Off	
Fail Safe State	Closed	Closed	Closed	
Actuator	Belimo NF-120	Belimo AF-120	Belimo LF-120	
Number of actuators	1	1	1	
Accessories & Remarks	Spring Return, Auxiliary End Switches	Spring Return, Auxiliary End Switches	Spring Return, Auxiliary End Switches	

END OF SECTION