


Heat Recovery Units				
AIR HANDLING UNIT No.		HRU-5 & 6 Pre-Purchased by The City. These specifications are included for information only.		
SERVICE AREA		Maintenance and Repair Building - East High Bay		
MANUFACTURER		Tempeff		
MODEL		RG 15000		
SUPPLY FILTER TYPE		2" Merv-10		
EXHAUST FILTER TYPE		None		
BALANCED AIRFLOW CONDITION				
SUPPLY FAN - SIZE/TYPE		ANPA 22		
AIRFLOW RATE (cfm) (l/s)		18190	8585	
TOTAL STATIC REQUIRED (in.H <sub>2</sub> O) (Pa)		2.85	712.50	
EXTERNAL STATIC REQUIRED (in.H2O) (Pa)		1.50	375.00	
MOTOR (Bhp/Hp) (bkW/kW)		7.31	10.00	5.45 7.46
SPEED (rpm)		1617		
EXHAUST FAN - SIZE/TYPE		ANPA 22		
AIRFLOW RATE (cfm) (l/s)		18051	8519	
TOTAL STATIC REQUIRED (in.H <sub>2</sub> O) (Pa)		2.80	700.00	
EXTERNAL STATIC REQUIRED (in.H2O) (Pa)		2.00	500.00	
MOTOR (Bhp/Hp) (bkW/kW)		7.19	10.00	5.36 7.46
SPEED (rpm)		1604		
HEAT RECOVERY SECTION				
SUPPLY AIRFLOW (cfm) (l/s)		18051	8519	
EXHAUST AIRFLOW (cfm) (l/s)		18051	8519	
WINTER ENERGY RECOVERY (MBH) (kW)		1682.71	493.2	
WINTER RECOVERY FACTOR (%)		86.30		
WINTER SUPPLY AIR TEMP. AFTER UNIT (°F) (°C)		56.31	13.51	
HEATING EXCHANGER				
MAX GAS HEATING INPUT (MBH)		1200		
MAX GAS HEATING OUTPUT (MBH)		960		
ENTERING AIR TEMP (°F) (°C)		55.70	13.17	
LEAVING AIR TEMP (°F) (°C)		104.30	40.17	
INBALANCED AIRFLOW CONDITION (TAILPIPE EXHAUST SYSTEM FULL OPERATION)				
SUPPLY FAN - SIZE/TYPE		ANPA 22		
AIRFLOW RATE (cfm) (l/s)		18190	8585	
TOTAL STATIC REQUIRED (in.H <sub>2</sub> O) (Pa)		2.65	662.50	
EXTERNAL STATIC REQUIRED (in.H2O) (Pa)		1.50	375.00	
MOTOR (Bhp/Hp) (bkW/kW)		7.31	10.00	5.45 7.46
SPEED (rpm)		1617		
EXHAUST FAN - SIZE/TYPE		ANPA 22		
AIRFLOW RATE (cfm) (l/s)		11731	5536	
TOTAL STATIC REQUIRED (in.H <sub>2</sub> O) (Pa)		2.42	605.00	
EXTERNAL STATIC REQUIRED (in.H2O) (Pa)		2.00	500.00	
MOTOR (Bhp/Hp) (bkW/kW)		7.19	10.00	5.36 7.46
SPEED (rpm)		1604		
HEAT RECOVERY SECTION				
SUPPLY AIRFLOW (cfm) (l/s)		14650	6914	
EXHAUST AIRFLOW (cfm) (l/s)		11731	5536	
WINTER ENERGY RECOVERY (MBH) (kW)		1200.31	351.8	
WINTER RECOVERY FACTOR (%)		75.90		
WINTER SUPPLY AIR TEMP. AFTER UNIT (°F) (°C)		45.86	7.70	
BYPASS AIRFLOW (cfm) (l/s)		3540	1671	
HEATING EXCHANGER				
MAX GAS HEATING INPUT (MBH)		1200		
MAX GAS HEATING OUTPUT (MBH)		960		
ENTERING AIR TEMP (°F) (°C)		28.30	-2.06	
LEAVING AIR TEMP (°F) (°C)		76.30	24.61	
UNIT TOTAL LENGTH (in.) (mm)		357.25	9074.15	
UNIT TOTAL WIDTH (in.) (mm)		114.13	2898.78	
UNIT TOTAL HEIGHT (in.) (mm)		106.25	2698.75	
UNIT WEIGHT (lbs) (kg)		21930	9947	
Notes:		2" Foam Injected Panels		
		All Sections c/w Hinged Access Doors and Locking Latches		
		Multi-Damper Switchover Section c/w Actuators		
		SS Drain Pans under Heat Exchanger(s) w/ 1" NPT Connections		
		Galvanized Heat Exchanger Frames		
		Galvanized Damper Blades, Damper Rods and Axles		
		Exterior/ Interior Casing: 24 Ga G90 Galv		
		10 HP WEG ODP Premium Eff. 4 Pole 215T Frame		
		SA Drive: ACH580-022A-6; RA Drive: ACH580-01-022A-6		
		1in. Seismic Spring Isolation; Single Point Power 600V/3ø; Low Limit;		
		SA Pre-Filter: Dafco Merv 10 (2") 400 HC; Quick Connect;		
		Heatco HDB-HPP-400-1200 Indirect Gas Burner 15:1 Turndown;		
		8" 10 Ga Baseframe; Dwyer DH3 Digihelic		
		Dwyer Magnehelic 605 Series (4-20mA Out)		
		External Enclosure w/ Hood; Enclosure Dampers w/ Actuators		
		Enclosure Temperature Controls; Enclosure Transformer		
		Enclosure Cooler; Enclosure Heater		
		SA Insulated Bypass Dampers with Modulate Belimo Actuator		
		Heat Recovery Unit Schedule		
		Project: Transit Maintenance and Repair Building		
		Mechanical Upgrade - East High Bay		
		File: 25-330-01	Designer: AJ	
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