


Heat Recovery Units

AIR HANDLING UNIT No.	HRU-3 & 4 Pre-Purchased by The City. These specifications are included for information only.			
SERVICE AREA	Maintenance and Repair Building - Centre 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 ₂ O) (Pa)	2.85			712.50
EXTERNAL STATIC REQUIRED (in.H ₂ O) (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 ₂ O) (Pa)	2.80			700.00
EXTERNAL STATIC REQUIRED (in.H ₂ O) (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 ₂ O) (Pa)	2.65			662.50
EXTERNAL STATIC REQUIRED (in.H ₂ O) (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 ₂ O) (Pa)	2.42			605.00
EXTERNAL STATIC REQUIRED (in.H ₂ O) (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 - Centre High Bay File: 24-256-01 Designer: AJ Date: Jan-25 Sheet: MS-1		