

APPENDIX "E"

ORIGINAL 2002 BALANCE REPORT


<p>This data and information in this appendix is provided for informational purposes only. The data and information is provided "as is" with no guarantee as to its accuracy.</p>


**Churchill Visitors Reception Centre
Churchill, Manitoba**

SUMMARY

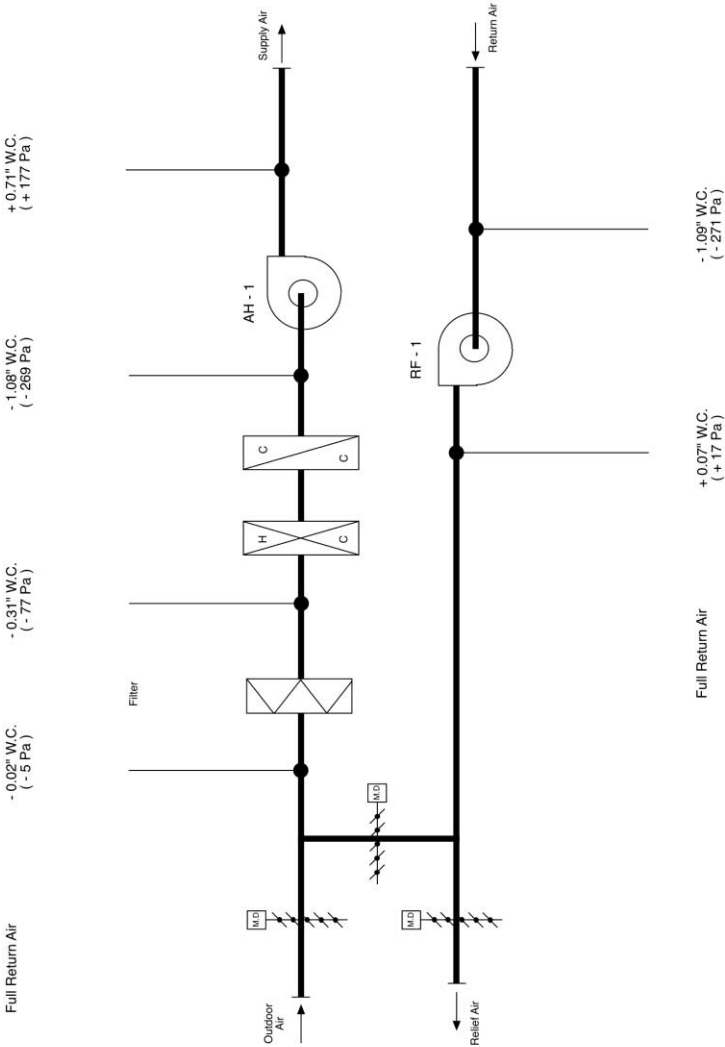
<u>SYSTEMS</u>	<u>% OF DESIGN</u>	<u>OBSERVATIONS</u>
I. Air Systems		
AH - 1 Air Handling Unit	98	New drive belt combination installed in order to achieve present condition.
RF - 1 Return Fan	96	
HRV - 1 Heat Recovery Ventilator Supply Fan	100	
HRV - 1 Heat Recovery Ventilator Exhaust Fan	100	Fan direct drive to the motor. On High Speed.
HRV - 2 Heat Recovery Ventilator Supply Fan	104	Fan direct drive to the motor. On High Speed.
HRV - 2 Heat Recovery Ventilator Exhaust Fan	96	Fan direct drive to the motor.
EF - 2 Elevator Machine Room Exhaust Fan	118	Fan direct drive to the motor. On Low Speed.
II. Hydronic Systems		
P - 1 HWS & HWR Pump	164	Tested while P - 2 not in operation.
P - 2 HWS & HWR Pump	164	Tested while P - 1 not in operation.

P - 3 HWS & HWR Pump	80	Tested while P - 4 not in operation. CBV set point: 1. Motor loaded.
P - 4 HWS & HWR Pump	92	Tested while P - 3 not in operation. CBV set point: 3 Motor loaded.
P - 5 AH - 1 Coil Pump	100	

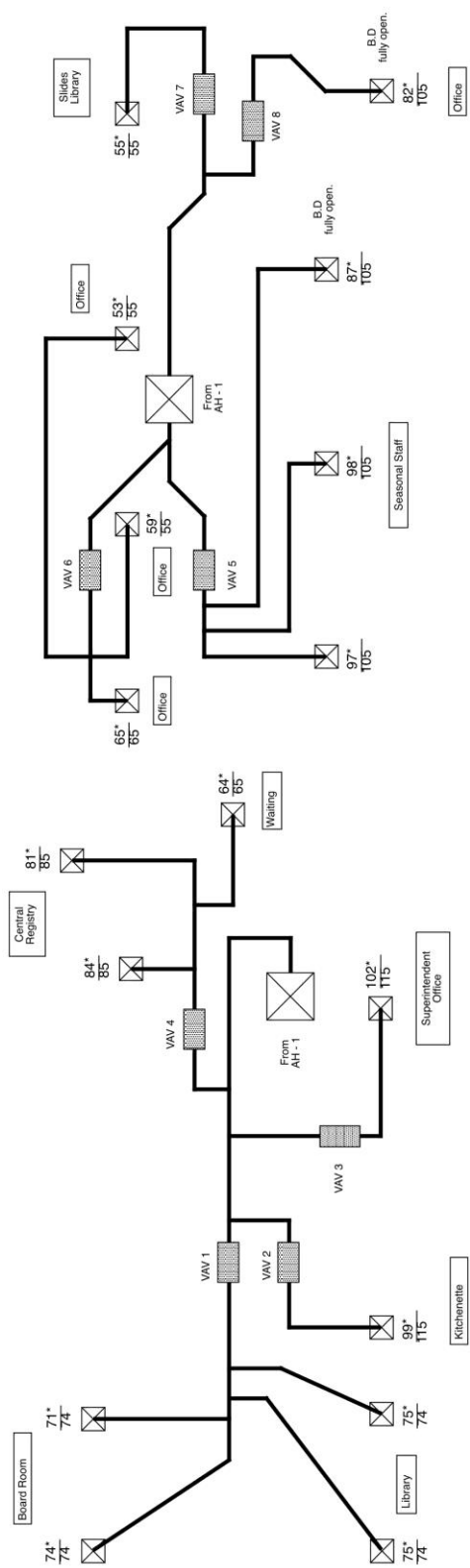
AIRDRONICS Inc.				SUPPLY FAN TEST SHEET	
BUILDING		Churchill Visitors Reception Centre - Churchill, Manitoba			
SYSTEM		AH - 1 Air Handling Unit			
FAN CAPACITY ESTABLISHED: - MAIN DUCT PITOT TUBE TRAVERSE - SUM OF PITOT TUBE TRAVERSES - SUM OF READINGS AT OUTLET (S)					
		<input type="checkbox"/> <input checked="" type="checkbox"/>			
		New drive belt combination installed in order to achieve present condition.			
TEST CONDITION		Readings at outlets recorded with Shortridge Instruments Inc. flowhood. A direct reading in l/s instrument.			
- MAX. OUTSIDE AIR - MAX. RETURN AIR		<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>			
DESIGN AND MANUFACTURER'S DATA			FINAL OPERATING CONDITION		
FAN MAKE ENGINEERED AIR			SYSTEM 98 % OF SPECIFIED		
MODEL LM - 8 - C					
VOLUME	3 419 l/s		3 344		
FAN SPEED	-		839 RPM (13.98 RPS)		
STATIC PRESSURE	1.5" W.C. (374 Pa)		-		
AMPERAGE	8.2		4.6		
POWER 7.5 HP VOLTAGE	575-3/60		597/610/604		
FILTER PRESSURE DROP			-		
PULLEY POSITION			<input type="checkbox"/> MIN. <input checked="" type="checkbox"/> 1/4 <input type="checkbox"/> 1/2 <input type="checkbox"/> 3/4 <input type="checkbox"/> MAX.		
SYSTEM STATIC PRESSURE					
MAX. OUTDOOR AIF	INLET		OUTLET		
MAX. RETURN AIF	INLET See Static Pressure Profile		OUTLET		
MIXED AIF	INLET		OUTLET		
DRIVE INFORMATION					
	DRIVE SIZE & GROOVES	SHAFT SIZE	NO. & BELT SIZE	C TO C OF PULLEY	
FAN	1 B 12.4 SDS	RHK 1"	1 B 74	23 1/8"	
MOTOR	8670 x 1 3/8"	RIF 1 3/8"			
Alexandru Garlceanu Bogdan Garlceanu		<small>"FIELD STATIC PRESSURE MEASUREMENTS RARELY CORRESPOND WITH LABORATORY STATIC PRESSURE MEASUREMENTS UNLESS THE FAN INLET AND OUTLET CONDITIONS ARE EXACTLY THE SAME AS THE INLET AND OUTLET CONDITIONS IN THE LABORATORY."</small>			
		1080			

AIRDRONICS Inc. 		RETURN FAN TEST SHEET		
BUILDING Churchill Visitors Reception Centre - Churchill, Manitoba				
SYSTEM RF - 1 Return Fan				
FAN CAPACITY ESTABLISHED: - MAIN DUCT PITOT TUBE TRAVERSE - SUM OF PITOT TUBE TRAVERSES - SUM OF READINGS AT INTAKE (Σ) <div style="float: right; margin-top: 10px;"> <div style="border: 1px solid black; padding: 2px 10px; display: inline-block;">X</div> <div style="margin-left: 10px;">See Traverse Schedule for Pitot tube duct traverse details.</div> </div>				
TEST CONDITION - MAX. RETURN AIR - MAX. RELIEF AIR - MIXED AIR <div style="float: right; margin-top: 10px;"> <div style="border: 1px solid black; padding: 2px 10px; display: inline-block;">X</div> <div style="margin-left: 10px;">S/N B 32931 - AHU - 1</div> </div>				
DESIGN AND MANUFACTURER'S DATA		FINAL OPERATING CONDITION		
FAN MAKE ENGINEERED AIR		SYSTEM 96 % OF SPECIFIED		
SIZE LM - 8 - C				
VOLUME	3 419 l/s	3 272		
FAN SPEED	-	649 RPM (10.82 RPS)		
STATIC PRESSURE	1" W.C. (249 Pa)	-		
AMPERAGE	8.2	5.6/6.4/4.4		
POWER 7.5 HP VOLTAGE	575-3/60	597/610/604		
FILTER PRESSURE DROP		-		
PULLEY POSITION	Fixed	<input type="checkbox"/> MIN. <input type="checkbox"/> 1/4 <input type="checkbox"/> 1/2 <input type="checkbox"/> 3/4 <input type="checkbox"/> MAX.		
SYSTEM STATIC PRESSURE				
MAX. RELIEF AIF	INLET See Static Pressure Profile	OUTLET		
MAX. RETURN AIF	INLET	OUTLET		
MIXED AIF	INLET	OUTLET		
DRIVE INFORMATION				
	DRIVE SIZE & GROOVES	SHAFT SIZE	NO & BELT SIZE	C TO C OF PULLEY
FAN	2 B 15.4 SK	1 3/8"	2 B 62	14 3/4"
MOTOR	2 B 15.4 SDS	1 5/16"		
Alexandru Garlceanu Bogdan Garlceanu		<small>"FIELD STATIC PRESSURE MEASUREMENTS RARELY CORRESPOND WITH LABORATORY STATIC PRESSURE MEASUREMENTS UNLESS THE FAN INLET AND OUTLET CONDITIONS ARE EXACTLY THE SAME AS THE INLET AND OUTLET CONDITIONS IN THE LABORATORY." AMCA FAN APPLICATION MANUAL NO. 202</small>		
		1080		

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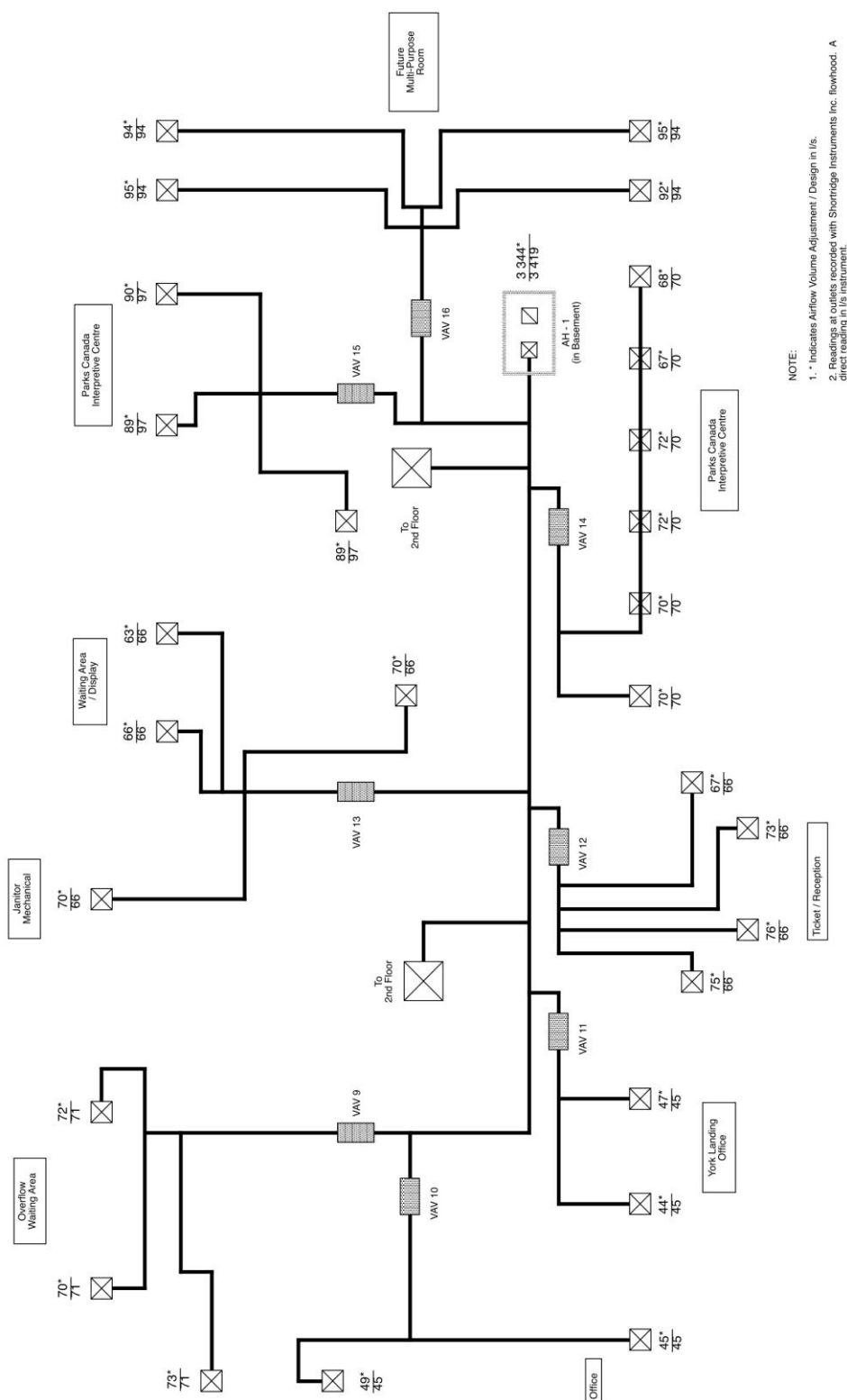


AH - 1 / RF - 1 Static Pressure Profile
Churchill Visitors Reception Centre
Churchill, Manitoba




NOTE:
1. * Indicates Airflow Volume Adjustment / Design in l/s.
2. Readings at outlets recorded with Shorrledge Instruments Inc. flowhood. A direct reading in l/s instrument.


AH - 1 Air System (2nd Floor)
Churchill Visitors Reception Centre
Churchill, Manitoba





NOTE:
1. ° Indicates Airflow Volume Adjustment / Design in l/s.
2. Readings at outlets recorded with Shorrbridge Instruments Inc. flowhood. A direct reading in its instrument.


AH - 1 Air System (Main Floor)
Churchill Visitors Reception Centre
Churchill, Manitoba


AIRDRONICS Inc.				SUPPLY FAN TEST SHEET	
BUILDING Churchill Visitors Reception Centre - Churchill, Manitoba					
SYSTEM HRV - 1 Heat Recovery Ventilator Supply Fan (2nd Floor) - Feb. 4, 2003 -					
FAN CAPACITY ESTABLISHED: - MAIN DUCT PITOT TUBE TRAVERSE <input checked="" type="checkbox"/> Ø 12" Duct; 0.785 Sq.Ft. - SUM OF PITOT TUBE TRAVERSES <input type="checkbox"/> 8 Point Traverse - SUM OF READINGS AT OUTLET (S) <input type="checkbox"/> Average Velocity: 546 FPM 546 x 0.785 = 429 CFM					
TEST CONDITION - MAX. OUTSIDE AIR <input checked="" type="checkbox"/> S/N CABD 1023010753 - MAX. RETURN AIR <input type="checkbox"/>					
DESIGN AND MANUFACTURER'S DATA			FINAL OPERATING CONDITION		
FAN MAKE LIFEBREATH			SYSTEM 100 % OF SPECIFIED		
MODEL 500 DCS					
VOLUME	430 CFM	429	4 speed motor. Tested on High Speed.		
FAN SPEED	Direct Drive	On High Speed			
STATIC PRESSURE	0.3" W.C.	-			
AMPERAGE	6.2	5.8			
POWER 1/6 HP VOLTAGE	120-1/60	118			
FILTER PRESSURE DROP		-			
PULLEY POSITION	D/D	<input type="checkbox"/> MIN. <input type="checkbox"/> 1/4 <input type="checkbox"/> 1/2 <input type="checkbox"/> 3/4 <input type="checkbox"/> MAX.			
SYSTEM STATIC PRESSURE					
MAX. OUTDOOR AIR	INLET Unreliable Reading	OUTLET Unreliable Reading			
MAX. RETURN AIR	INLET	OUTLET			
MIXED AIR	INLET	OUTLET			
DRIVE INFORMATION					
	DRIVE SIZE & GROOVES	SHAFT SIZE	NO. & BELT SIZE	C TO C OF PULLEY	
FAN	D/D	-	-	-	
MOTOR	D/D	-	-	-	
Bogdan Garliceanu "FIELD STATIC PRESSURE MEASUREMENTS RARELY CORRESPOND WITH LABORATORY STATIC PRESSURE MEASUREMENTS UNLESS THE FAN INLET AND OUTLET CONDITIONS ARE EXACTLY THE SAME AS THE INLET AND OUTLET CONDITIONS IN THE LABORATORY." <div style="text-align: right;">1080</div>					
AMCA FAN APPLICATION MANUAL NO. 202					


AIRDRONICS Inc.		 MEMBER		EXHAUST FAN TEST SHEET	
BUILDING		Churchill Visitors Reception Centre - Churchill, Manitoba			
SYSTEM		HRV - 1 Heat Recovery Ventilator Exhaust Fan (2nd Floor) - Feb. 4, 2003 -			
<p>FAN CAPACITY ESTABLISHED:</p> <div style="display: flex; justify-content: space-between;"> <div> <p>- MAIN DUCT PITOT TUBE TRAVERSE</p> <p>- SUM OF PITOT TUBE TRAVERSES</p> <p>- SUM OF READINGS AT INTAKE (S)</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">X</p> </div> <div> <p>8" x 14" Duct; 0.78 Sq.Ft.</p> <p>6 Point Traverse</p> <p>Average Velocity: 558 FPM</p> <p>558 x 0.78 = 430 CFM</p> </div> </div> <p style="text-align: center; margin-top: 20px;">S/N CABD 1023010753</p>					
DESIGN AND MANUFACTURER'S DATA			FINAL OPERATING CONDITION		
FAN MAKE		LIFEBREATH		SYSTEM 100 % OF SPECIFIED	
SIZE		500 DCS			
VOLUME	430 CFM		430	4 speed motor. Tested on High Speed.	
FAN SPEED	Direct Drive		On High Speed		
STATIC PRESSURE	0.3" W.C.		-		
AMPERAGE	6.2		5.8		
POWER 1/6 HP VOLTAGE	120-1/60		118		
FILTER PRESSURE DROP			-		
PULLEY POSITION	D/D		<input type="checkbox"/> MIN. <input type="checkbox"/> 1/4 <input type="checkbox"/> 1/2 <input type="checkbox"/> 3/4 <input type="checkbox"/> MAX.		
SYSTEM STATIC PRESSURE					
MAX. RELIEF AIR		INLET - 0.30" W.C.		OUTLET + 0.22" W.C.	
DRIVE INFORMATION					
	DRIVE SIZE & GROOVES	SHAFT SIZE	NO. & BELT SIZE	C TO C OF PULLEY	
FAN	D/D	-	-	-	
MOTOR	D/D	-			
Bogdan Garlieceanu		<p style="font-size: small;">*FIELD STATIC PRESSURE MEASUREMENTS RARELY CORRESPOND WITH LABORATORY STATIC PRESSURE MEASUREMENTS UNLESS THE FAN INLET AND OUTLET CONDITIONS ARE EXACTLY THE SAME AS THE INLET AND OUTLET CONDITIONS IN THE LABORATORY.*</p> <p style="font-size: x-small; text-align: center;">AMCA FAN APPLICATION MANUAL NO. 202</p> <p style="text-align: right; font-size: x-small;">1080</p>			


AIRDRONICS Inc.				SUPPLY FAN TEST SHEET	
BUILDING Churchill Visitors Reception Centre - Churchill, Manitoba					
SYSTEM HRV - 2 Heat Recovery Ventilator Supply Fan (Main Floor) -Feb. 4, 2003 -					
FAN CAPACITY ESTABLISHED: - MAIN DUCT PITOT TUBE TRAVERSE <input checked="" type="checkbox"/> Ø14" Duct; 1.07 Sq.Ft. - SUM OF PITOT TUBE TRAVERSES <input type="checkbox"/> 16 Point Traverse - SUM OF READINGS AT OUTLET (S) <input type="checkbox"/> Average Velocity: 580 FPM 580 x 1.07 = 621 CFM					
TEST CONDITION - MAX. OUTSIDE AIR <input checked="" type="checkbox"/> S/N 1024010821 - MAX. RETURN AIR <input type="checkbox"/>					
DESIGN AND MANUFACTURER'S DATA			FINAL OPERATING CONDITION		
FAN MAKE LIFEBREATH			SYSTEM 104 % OF SPECIFIED		
MODEL 1200 DD					
VOLUME	600 CFM	621	3 speed motor. Tested on High Speed.		
FAN SPEED	Direct Drive	On High Speed			
STATIC PRESSURE	0.3" W.C.	-			
AMPERAGE	7.6	6.0			
POWER 1/6 HP VOLTAGE	115-1/60	118			
FILTER PRESSURE DROP		-			
PULLEY POSITION	D/D	<input type="checkbox"/> MIN. <input type="checkbox"/> 1/4 <input type="checkbox"/> 1/2 <input type="checkbox"/> 3/4 <input type="checkbox"/> MAX.			
SYSTEM STATIC PRESSURE					
MAX. OUTDOOR AIR	INLET - 0.07" W.C.	OUTLET + 0.98" W.C.			
MAX. RETURN AIR	INLET	OUTLET			
MIXED AIR	INLET	OUTLET			
DRIVE INFORMATION					
	DRIVE SIZE & GROOVES	SHAFT SIZE	NO. & BELT SIZE	C TO C OF PULLEY	
FAN	D/D	-	-	-	
MOTOR	D/D	-	-	-	
Bogdan Garliceanu "FIELD STATIC PRESSURE MEASUREMENTS RARELY CORRESPOND WITH LABORATORY STATIC PRESSURE MEASUREMENTS UNLESS THE FAN INLET AND OUTLET CONDITIONS ARE EXACTLY THE SAME AS THE INLET AND OUTLET CONDITIONS IN THE LABORATORY." <div style="text-align: right;">1080</div>					
AMCA FAN APPLICATION MANUAL NO. 202					


AIRDRONICS Inc.		 MEMBER		EXHAUST FAN TEST SHEET	
BUILDING		Churchill Visitors Reception Centre - Churchill, Manitoba			
SYSTEM		HRV - 2 Heat Recovery Ventilator Exhaust Fan (Main Floor) - Feb.4, 2003 -			
FAN CAPACITY ESTABLISHED: - MAIN DUCT PITOT TUBE TRAVERSE - SUM OF PITOT TUBE TRAVERSES - SUM OF READINGS AT INTAKE (S)		<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px; margin-right: 5px;">x</div> <div> <p>TR 1: Ø 10" Duct; 0.545 Sq.Ft. 8 Point Traverse Average Velocity: 337 FPM $337 \times 0.545 = 184$ CFM</p> <p>TR 2: Average Velocity: 439 FPM $439 \times 0.42 = 184$ CFM</p> <p>TR 3: Average Velocity: 495 FPM $495 \times 0.42 = 208$ CFM Total: $184 + 184 + 208 = 576$ CFM</p> <p>S/N 1024010821</p> </div> </div>			
DESIGN AND MANUFACTURER'S DATA			FINAL OPERATING CONDITION		
FAN MAKE		LIFEBREATH		SYSTEM 96 % OF SPECIFIED	
SIZE		1200 DD			
VOLUME	600 CFM		576	3 speed motor. Tested on High Speed.	
FAN SPEED	Direct Drive		On High Speed		
STATIC PRESSURE	0.3" W.C.		-		
AMPERAGE	7.6		6.0		
POWER 1/6 HP VOLTAGE	115-1/60		118		
FILTER PRESSURE DROP			-		
PULLEY POSITION	D/D		<input type="checkbox"/> MIN. <input type="checkbox"/> 1/4 <input type="checkbox"/> 1/2 <input type="checkbox"/> 3/4 <input type="checkbox"/> MAX.		
SYSTEM STATIC PRESSURE					
MAX. RELIEF AIR		INLET	- 0.51" W.C.	OUTLET	+ 0.09" W.C.
DRIVE INFORMATION					
	DRIVE SIZE & GROOVES	SHAFT SIZE	NO. & BELT SIZE	C TO C OF PULLEY	
FAN	D/D	-	-	-	
MOTOR	D/D	-			
Bogdan Garliceanu		<small>"FIELD STATIC PRESSURE MEASUREMENTS RARELY CORRESPOND WITH LABORATORY STATIC PRESSURE MEASUREMENTS UNLESS THE FAN INLET AND OUTLET CONDITIONS ARE EXACTLY THE SAME AS THE INLET AND OUTLET CONDITIONS IN THE LABORATORY." AMCA FAN APPLICATION MANUAL NO. 202</small>			
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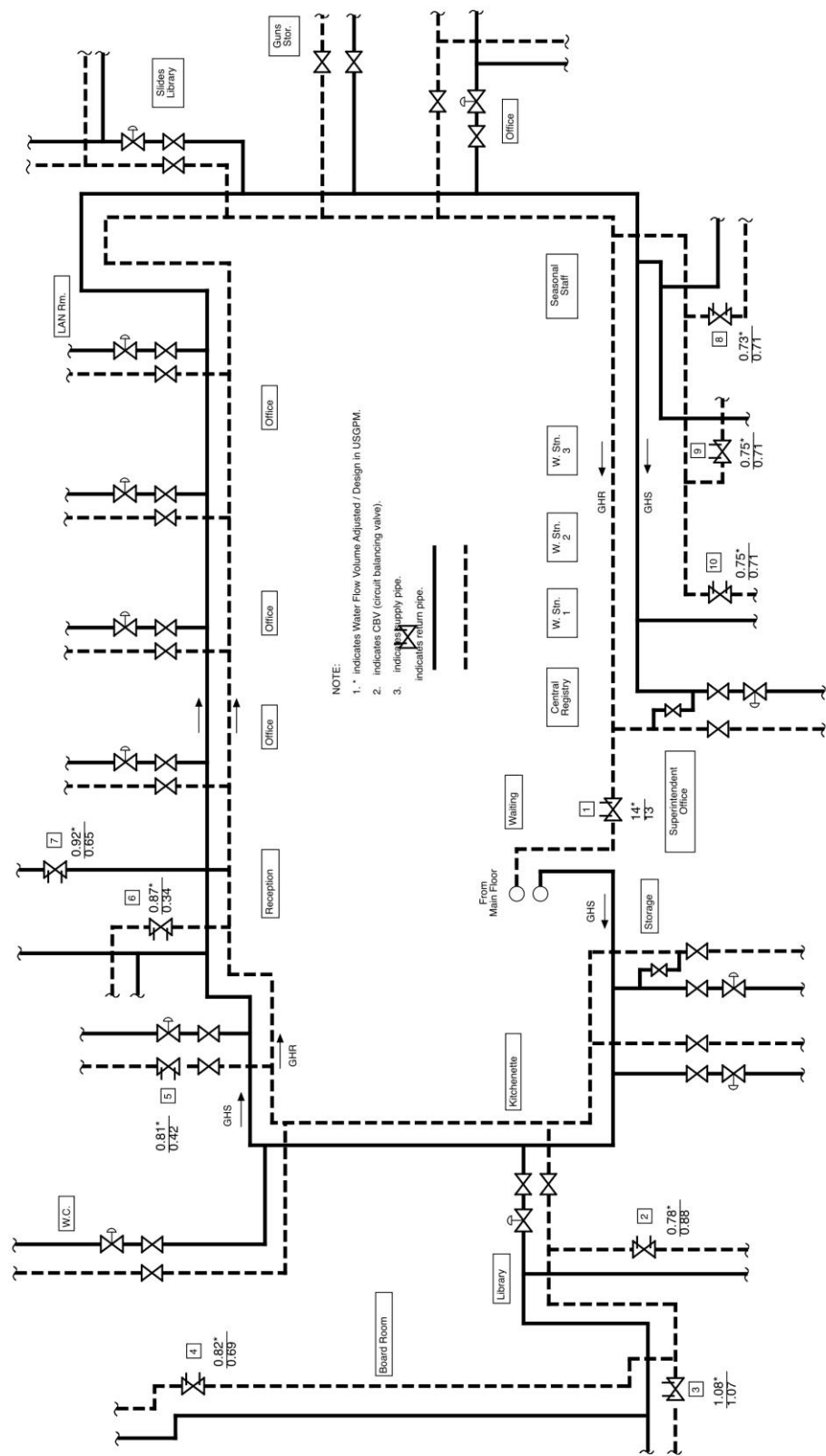
AIRDRONICS Inc.		 MEMBER		EXHAUST FAN TEST SHEET	
BUILDING		Churchill Visitors Reception Centre - Churchill, Manitoba			
SYSTEM		EF - 2 Elevator Machine Room Exhaust Fan			
<p>FAN CAPACITY ESTABLISHED:</p> <div style="display: flex; justify-content: space-between;"> <div> <ul style="list-style-type: none"> - MAIN DUCT PITOT TUBE TRAVERSE - SUM OF PITOT TUBE TRAVERSES - SUM OF READINGS AT INTAKE (S) </div> <div style="border: 1px solid black; padding: 2px;"> <div style="text-align: center;">X</div> <div style="text-align: center;"> </div> <div style="text-align: center;"> </div> </div> <div> <p>8" x 14" Duct; 0.78 Sq.Ft. 6 Point Traverse Average Velocity: 692 FPM 692 x 0.78 = 540 CFM = 255 l/s</p> </div> </div> <p style="text-align: center; margin-top: 20px;">S/N 59 S 12</p>					
DESIGN AND MANUFACTURER'S DATA			FINAL OPERATING CONDITION		
FAN MAKE		PENN ZEPHYR		SYSTEM 118 % OF SPECIFIED	
SIZE		Z - 10 S / H			
VOLUME	217 l/s	255	2 speed motor. Tested on Low Speed.		
FAN SPEED	Direct Drive	On Low Speed			
STATIC PRESSURE	0.25" W.C. (62 Pa)	-			
AMPERAGE	2.5/3.6	1.6			
POWER Fractional VOLTAGE	115-1/60	116			
FILTER PRESSURE DROP		-			
PULLEY POSITION	D/D	<input type="checkbox"/> MIN. <input type="checkbox"/> 1/4 <input type="checkbox"/> 1/2 <input type="checkbox"/> 3/4 <input type="checkbox"/> MAX.			
SYSTEM STATIC PRESSURE					
MAX. RELIEF AIR		INLET	Free	OUTLET	+ 0.04" W.C. (+ 10 Pa)
DRIVE INFORMATION					
	DRIVE SIZE & GROOVES	SHAFT SIZE	NO. & BELT SIZE	C TO C OF PULLEY	
FAN	D/D	-	-		
MOTOR	D/D	-	-		
Alexandru Garlceanu Bogdan Garlceanu		<p style="font-size: small;">*FIELD STATIC PRESSURE MEASUREMENTS RARELY CORRESPOND WITH LABORATORY STATIC PRESSURE MEASUREMENTS UNLESS THE FAN INLET AND OUTLET CONDITIONS ARE EXACTLY THE SAME AS THE INLET AND OUTLET CONDITIONS IN THE LABORATORY.*</p> <p style="font-size: x-small; text-align: center;">AMCA FAN APPLICATION MANUAL NO. 202</p>			
		1080			

AIRDRONICS Inc.		 MEMBER		PUMP TEST SHEET	
BUILDING Churchill Visitors Reception Centre - Churchill, Manitoba					
SYSTEM P - 1 HWS & HWR Pump					
PUMP CAPACITY ESTABLISHED: <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> <p>- MAIN FLOW ELEMENTS: <input type="checkbox"/></p> <p>- SUM OF ELEMENTS: <input type="checkbox"/></p> <p>- PUMP CURVE CORRELATION: <input checked="" type="checkbox"/></p> <p>- DOPPLER SHIFT FLOWMETER: <input type="checkbox"/></p> <p>- SINGLE: <input type="checkbox"/></p> <p>- PARALLEL: <input type="checkbox"/></p> </div> <div style="width: 55%;"> <p>Tested while P - 2 not in operation.</p> <p>S/N 706132</p> </div> </div>					
DESIGN AND MANUFACTURER'S DATA			FINAL OPERATING CONDITION		
PUMP MAKE ARMSTRONG		SYSTEM 100 % OF SPECIFIED			
MODEL /SIZE 2 B 4360 B - 00					
PUMP SPEED 1 800 RPM					
PUMPED FLUID Glycol					
MOTOR POWER	1/2 HP	FULL FLOW	FULL BY-PASS	SHUT OFF	
VOLTAGE	230/460-3/60	196/195/196	-	196/195/196	
AMPERAGE	2.0/1.0	1.4/1.5/1.4	-	1.0/1.1/1.0	
FLOW RATE	50 USGPM	50	-	0	
DISCHARGE PRESSURE	PSI	25.3	-	30	
SUCTION PRESSURE	PSI	18	-	21	
TOTAL HEAD	15 Feet	17	-	20.8	
REMARKS: Alex & Bogdan Garliceanu					

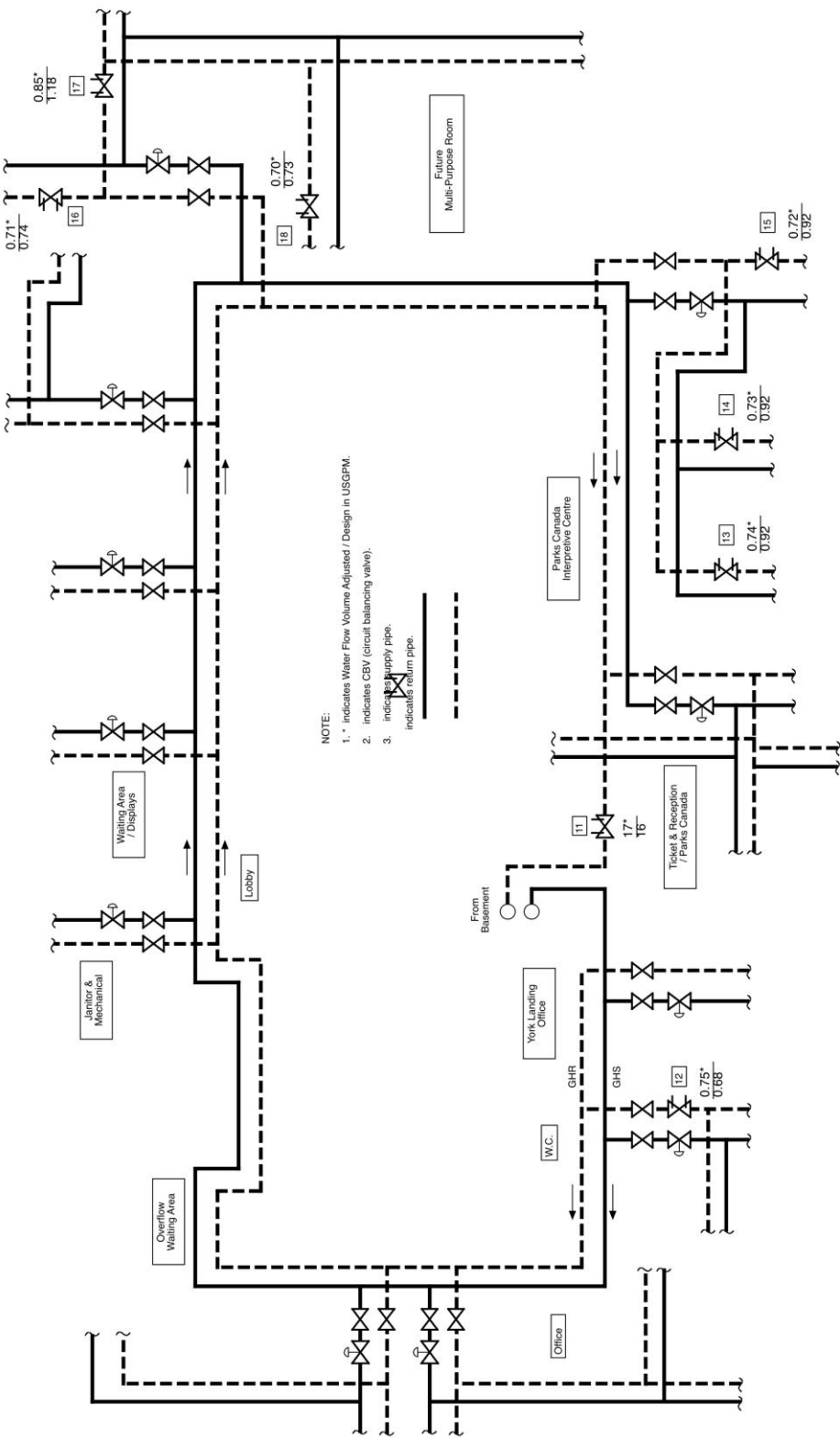
AIRDRONICS Inc.				PUMP TEST SHEET	
BUILDING Churchill Visitors Reception Centre - Churchill, Manitoba					
SYSTEM P - 2 HWS & HWR Pump					
<p>PUMP CAPACITY ESTABLISHED:</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> <p>- MAIN FLOW ELEMENTS: <input type="checkbox"/></p> <p>- SUM OF ELEMENTS: <input type="checkbox"/></p> <p>- PUMP CURVE CORRELATION: <input checked="" type="checkbox"/></p> <p>- DOPPLER SHIFT FLOWMETER: <input type="checkbox"/></p> <p>- SINGLE: <input type="checkbox"/></p> <p>- PARALLEL: <input type="checkbox"/></p> </div> <div style="width: 55%;"> <p>Tested while P - 1 not in operation.</p> <p>S/N 706132</p> </div> </div>					
DESIGN AND MANUFACTURER'S DATA			FINAL OPERATING CONDITION		
PUMP MAKE ARMSTRONG		SYSTEM 100 % OF SPECIFIED			
MODEL /SIZE 2 B 4360 B - 00					
PUMP SPEED 1 800 RPM					
PUMPED FLUID Glycol					
MOTOR POWER	1/2 HP	FULL FLOW	FULL BY-PASS	SHUT OFF	
VOLTAGE	230/460-3/60	196/195/196	-	196/195/196	
AMPERAGE	2.0/1.0	1.3/1.5/1.5	-	1.1/1.1/1.1	
FLOW RATE	50 USGPM	50	-	0	
DISCHARGE PRESSURE	PSI	25.3	-	29	
SUCTION PRESSURE	PSI	18	-	20	
TOTAL HEAD	15 Feet	17	-	20.8	
REMARKS: Alex & Bogdan Garliceanu					

AIRDRONICS Inc.				PUMP TEST SHEET	
BUILDING Churchill Visitors Reception Centre - Churchill, Manitoba					
SYSTEM P - 3 HWS & HWR Pump					
<p>PUMP CAPACITY ESTABLISHED:</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> <p>- MAIN FLOW ELEMENTS: <input type="checkbox"/></p> <p>- SUM OF ELEMENTS: <input type="checkbox"/></p> <p>- PUMP CURVE CORRELATION: <input checked="" type="checkbox"/></p> <p>- DOPPLER SHIFT FLOWMETER: <input type="checkbox"/></p> <p>- SINGLE: <input type="checkbox"/></p> <p>- PARALLEL: <input type="checkbox"/></p> </div> <div style="width: 55%;"> <p>Tested while P - 4 not in operation. CBV set point: 1. Motor loaded.</p> <p style="text-align: right;">S/N 452853</p> </div> </div>					
DESIGN AND MANUFACTURER'S DATA			FINAL OPERATING CONDITION		
PUMP MAKE ARMSTRONG			SYSTEM 80 % OF SPECIFIED		
MODEL /SIZE 2 D 4360					
PUMP SPEED 1 800 RPM					
PUMPED FLUID Glycol					
MOTOR POWER	1.5 HP	FULL FLOW	FULL BY-PASS	SHUT OFF	
VOLTAGE	200-3/60	196/195/196	-	196/195/196	
AMPERAGE	4.9	4.9/5.0/5.0	-	3.7/3.6/3.8	
FLOW RATE	50 USGPM	40	-	0	
DISCHARGE PRESSURE	PSI	38	-	44.2	
SUCTION PRESSURE	PSI	20.2	-	24	
TOTAL HEAD	45 Feet	41	-	46.6	
REMARKS: Alex & Bogdan Garliceanu					

AIRDRONICS Inc.				PUMP TEST SHEET	
BUILDING Parks Canada Building - Churchill, Manitoba					
SYSTEM P - 4 HWS & HWR Pump					
<p>PUMP CAPACITY ESTABLISHED:</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> <p>- MAIN FLOW ELEMENTS: <input type="checkbox"/></p> <p>- SUM OF ELEMENTS: <input type="checkbox"/></p> <p>- PUMP CURVE CORRELATION: <input checked="" type="checkbox"/></p> <p>- DOPPLER SHIFT FLOWMETER: <input type="checkbox"/></p> <p>- SINGLE: <input type="checkbox"/></p> <p>- PARALLEL: <input type="checkbox"/></p> </div> <div style="width: 55%;"> <p>Tested while P - 3 not in operation. CBV set point: 3. Motor loaded.</p> <p style="text-align: right;">S/N 452854</p> </div> </div>					
DESIGN AND MANUFACTURER'S DATA			FINAL OPERATING CONDITION		
PUMP MAKE ARMSTRONG			SYSTEM 92 % OF SPECIFIED		
MODEL /SIZE 2 D 4360					
PUMP SPEED 1 800 RPM					
PUMPED FLUID Glycol					
MOTOR POWER	1.5 HP	FULL FLOW	FULL BY-PASS	SHUT OFF	
VOLTAGE	200-3/60	196/195/196	-	196/195/196	
AMPERAGE	4.9	4.7/5.0/5.0	-	3.9/4.0/3.6	
FLOW RATE	50 USGPM	46	-	0	
DISCHARGE PRESSURE	PSI	37	-	44	
SUCTION PRESSURE	PSI	19	-	23	
TOTAL HEAD	45 Feet	41.5	-	48.5	
REMARKS: Alex & Bogdan Garliceanu					



Hydronic System (2nd Floor)
Churchill Visitors Reception Centre
Churchill, Manitoba



1080

Hydronic System (Main Floor)
Churchill Visitors Reception Centre
Churchill, Manitoba